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

# DATA PACKAGE

## VOLATILE ORGANICS

**PROJECT NAME : CON ED UTEN MOUNT VERNON, NY**

**CDM SMITH**

**110 Fieldcrest Ave**

**Raritan Center**

**Edison, NJ - 08837**

**Phone No: 732-225-7000**

**ORDER ID : Q2075**

**ATTENTION : Marcie Ann Encinas**

**Laboratory Certification ID # 20012**

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# Cover Page

**Order ID :** Q2075

**Project ID :** Con Ed UTEN Mount Vernon, NY

**Client :** CDM Smith

| Lab Sample Number | Client Sample Number |
|---|---|
| Q2075-01 | SS-10 |
| Q2075-02 | SS-910 |
| Q2075-03 | SS-11 |
| Q2075-04 | SS-11MS |
| Q2075-05 | SS-11MSD |
| Q2075-06 | SS-MW1-11.5 |
| Q2075-07 | FB-05152025 |
| Q2075-08 | FB-05162025 |

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: 5/27/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**CDM Smith**
**Project Name: Con Ed UTEN Mount Vernon, NY**
**Project # N/A**
**Order ID # Q2075**
**Test Name: VOCMS Group3**

**A. Number of Samples and Date of Receipt:**
6 Solid samples were received on 05/16/2025.
2 Water samples were received on 05/16/2025.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: SVOCMS Group3 and VOCMS Group3. This data package contains results for VOCMS Group3.

**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 performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOCMS Group3 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 MS {Q2075-04MS} with File ID: VY022350.D recoveries met the requirements for all compounds except for m/p-Xylenes[148%], o-Xylene[162%] and 1,2,4-Trimethylbenzene[235%] due to matrix interference.

The MSD {Q2075-05MSD} with File ID: VY022351.D recoveries met the acceptable requirements except for Ethyl Benzene[136%], Toluene[138%] m/p-Xylenes[161%] and o-Xylene [180%] due to matrix interference.

The RPD for {Q2075-05MSD} with File ID: VY022351.D met criteria except for 1,2,4-Trimethylbenzene[36%], Benzene[30%], p-Isopropyltoluene[21%], tert-Butylbenzene[26%] and Toluene[29%] due to difference in results of MS and MSD.

The Blank Spike met requirements for all samples.
The Blank Spike Duplicate met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.

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

Sample SS-MW1-11.5 was diluted due to high concentration.

**E. Additional Comments:**
Trip Blank was not provided with this set of samples.

The soil samples results are based on a dry weight basis.

The Sample #SS-MW1-11.5ME have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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

ORDER ID: Q2075 MATRIX: Soil/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>The Continuous Calibration met the requirements. | | | ✓ |
| 6. | Blank Contamination - If yes, list compounds and concentrations in each blank: | | ✓ | |
| 7. | Surrogate Recoveries Meet Criteria<br>If not met, list those compounds and their recoveries which fall outside the acceptable ranges. | | | ✓ |
| 8. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria<br>If not met, list those compounds and their recoveries which fall outside the acceptable range.<br>The MS {Q2075-04MS} with File ID: VY022350.D recoveries met the requirements for all compounds except for m/p-Xylenes[148%], o-Xylene[162%] and 1,2,4-Trimethylbenzene[235%] due to matrix interference.<br>The MSD {Q2075-05MSD} with File ID: VY022351.D recoveries met the acceptable requirements except for Ethyl Benzene[136%], Toluene[138%] m/p-Xylenes[161%] and o-Xylene [180%] due to matrix interference.<br>The RPD for {Q2075-05MSD} with File ID: VY022351.D met criteria except for 1,2,4-Trimethylbenzene[36%], Benzene[30%], p-Isopropyltoluene[21%], tert-Butylbenzene[26%] and Toluene[29%] due to difference in results of MS and MSD. | | ✓ | |
| 9. | Internal Standard Area/Retention Time Shift Meet Criteria<br>Comments: | | | ✓ |

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

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

ADDITIONAL COMMENTS:

Sample SS-MW1-11.5 was diluted due to high concentration.

Trip Blank was not provided with this set of samples.

The Sample #SS-MW1-11.5ME have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The soil samples results are based on a dry weight basis.

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

_____ _____

QA REVIEW Date

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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** Q2075

| | 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:** 05/27/2025

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2075 | **OrderDate:** | 5/16/2025 4:10:00 PM |
| **Client:** | CDM Smith | **Project:** | Con Ed UTEN Mount Vernon, NY |
| **Contact:** | Marcie Ann Encinas | **Location:** | L41,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2075-01** | **SS-10** | **SOIL** | | | **05/15/25** | | | **05/16/25** |
| | | | VOCMS Group3 | 8260D | | | 05/20/25 | |
| **Q2075-02** | **SS-910** | **SOIL** | | | **05/15/25** | | | **05/16/25** |
| | | | VOCMS Group3 | 8260D | | | 05/20/25 | |
| **Q2075-03** | **SS-11** | **SOIL** | | | **05/15/25** | | | **05/16/25** |
| | | | VOCMS Group3 | 8260D | | | 05/20/25 | |
| **Q2075-06** | **SS-MW1-11.5** | **SOIL** | | | **05/16/25** | | | **05/16/25** |
| | | | VOCMS Group3 | 8260D | | | 05/22/25 | |
| **Q2075-06ME** | **SS-MW1-11.5ME** | **SOIL** | | | **05/16/25** | | | **05/16/25** |
| | | | VOCMS Group3 | 8260D | | | 05/23/25 | |
| **Q2075-07** | **FB-05152025** | **Water** | | | **05/15/25** | | | **05/16/25** |
| | | | VOCMS Group3 | 8260-Low | | | 05/21/25 | |
| **Q2075-08** | **FB-05162025** | **Water** | | | **05/16/25** | | | **05/16/25** |
| | | | VOCMS Group3 | 8260-Low | | | 05/21/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2075

**Client:** CDM Smith

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **SS-10** | | | | | | | |
| Q2075-01 | SS-10 | SOIL | Ethyl Benzene | 21.1 | | 0.54 | 4.00 | ug/Kg |
| Q2075-01 | SS-10 | SOIL | Total Xylenes | 93.8 | | 1.66 | 12.1 | ug/Kg |
| Q2075-01 | SS-10 | SOIL | Isopropylbenzene | 5.70 | | 0.63 | 4.00 | ug/Kg |
| Q2075-01 | SS-10 | SOIL | n-propylbenzene | 13.1 | | 0.59 | 4.00 | ug/Kg |
| Q2075-01 | SS-10 | SOIL | 1,3,5-Trimethylbenzene | 23.4 | | 0.66 | 4.00 | ug/Kg |
| Q2075-01 | SS-10 | SOIL | 1,2,4-Trimethylbenzene | 90.2 | | 0.52 | 4.00 | ug/Kg |
| Q2075-01 | SS-10 | SOIL | sec-Butylbenzene | 3.50 | J | 0.53 | 4.00 | ug/Kg |
| Q2075-01 | SS-10 | SOIL | p-Isopropyltoluene | 2.10 | J | 0.50 | 4.00 | ug/Kg |
| Q2075-01 | SS-10 | SOIL | n-Butylbenzene | 3.70 | J | 1.20 | 4.00 | ug/Kg |
| | | | **Total Voc :** | 257 | | | | |
| | | | **Total Concentration:** | 257 | | | | |
| **Client ID:** | **SS-910** | | | | | | | |
| Q2075-02 | SS-910 | SOIL | Ethyl Benzene | 5.40 | | 0.51 | 3.80 | ug/Kg |
| Q2075-02 | SS-910 | SOIL | Total Xylenes | 26.5 | | 1.58 | 11.5 | ug/Kg |
| Q2075-02 | SS-910 | SOIL | Isopropylbenzene | 2.10 | J | 0.60 | 3.80 | ug/Kg |
| Q2075-02 | SS-910 | SOIL | n-propylbenzene | 5.00 | | 0.56 | 3.80 | ug/Kg |
| Q2075-02 | SS-910 | SOIL | 1,3,5-Trimethylbenzene | 9.10 | | 0.63 | 3.80 | ug/Kg |
| Q2075-02 | SS-910 | SOIL | 1,2,4-Trimethylbenzene | 32.9 | | 0.49 | 3.80 | ug/Kg |
| Q2075-02 | SS-910 | SOIL | sec-Butylbenzene | 1.50 | J | 0.51 | 3.80 | ug/Kg |
| Q2075-02 | SS-910 | SOIL | p-Isopropyltoluene | 0.99 | J | 0.48 | 3.80 | ug/Kg |
| Q2075-02 | SS-910 | SOIL | n-Butylbenzene | 1.70 | J | 1.10 | 3.80 | ug/Kg |
| | | | **Total Voc :** | 85.2 | | | | |
| | | | **Total Concentration:** | 85.2 | | | | |
| **Client ID:** | **SS-11** | | | | | | | |
| Q2075-03 | SS-11 | SOIL | Toluene | 5.20 | | 0.78 | 5.00 | ug/Kg |
| Q2075-03 | SS-11 | SOIL | Ethyl Benzene | 7.80 | | 0.67 | 5.00 | ug/Kg |
| Q2075-03 | SS-11 | SOIL | Total Xylenes | 46.3 | | 2.02 | 14.9 | ug/Kg |
| Q2075-03 | SS-11 | SOIL | Isopropylbenzene | 2.10 | J | 0.78 | 5.00 | ug/Kg |
| Q2075-03 | SS-11 | SOIL | n-propylbenzene | 5.40 | | 0.73 | 5.00 | ug/Kg |
| Q2075-03 | SS-11 | SOIL | 1,3,5-Trimethylbenzene | 9.80 | | 0.82 | 5.00 | ug/Kg |
| Q2075-03 | SS-11 | SOIL | 1,2,4-Trimethylbenzene | 40.2 | | 0.64 | 5.00 | ug/Kg |
| Q2075-03 | SS-11 | SOIL | sec-Butylbenzene | 1.40 | J | 0.66 | 5.00 | ug/Kg |
| Q2075-03 | SS-11 | SOIL | n-Butylbenzene | 1.40 | J | 1.40 | 5.00 | ug/Kg |
| | | | **Total Voc :** | 120 | | | | |
| | | | **Total Concentration:** | 120 | | | | |
| **Client ID:** | **SS-MW1-11.5** | | | | | | | |
| Q2075-06 | SS-MW1-11.5 | SOIL | Benzene | 9.40 | | 0.62 | 3.90 | ug/Kg |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2075

**Client:** CDM Smith

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| Q2075-06 | SS-MW1-11.5 | SOIL | Toluene | 44.7 | | 0.61 | 3.90 | ug/Kg |
| Q2075-06 | SS-MW1-11.5 | SOIL | Ethyl Benzene | 18.9 | | 0.52 | 3.90 | ug/Kg |
| Q2075-06 | SS-MW1-11.5 | SOIL | Total Xylenes | 1510 | E | 1.61 | 11.7 | ug/Kg |
| Q2075-06 | SS-MW1-11.5 | SOIL | Isopropylbenzene | 40.5 | | 0.61 | 3.90 | ug/Kg |
| Q2075-06 | SS-MW1-11.5 | SOIL | n-propylbenzene | 56.3 | | 0.57 | 3.90 | ug/Kg |
| Q2075-06 | SS-MW1-11.5 | SOIL | 1,3,5-Trimethylbenzene | 770 | E | 0.64 | 3.90 | ug/Kg |
| Q2075-06 | SS-MW1-11.5 | SOIL | 1,2,4-Trimethylbenzene | 740 | E | 0.50 | 3.90 | ug/Kg |
| Q2075-06 | SS-MW1-11.5 | SOIL | sec-Butylbenzene | 66.3 | | 0.52 | 3.90 | ug/Kg |
| Q2075-06 | SS-MW1-11.5 | SOIL | p-Isopropyltoluene | 52.3 | | 0.48 | 3.90 | ug/Kg |
| Q2075-06 | SS-MW1-11.5 | SOIL | n-Butylbenzene | 71.9 | | 1.10 | 3.90 | ug/Kg |
| | | | **Total Voc :** | 3380 | | | | |
| | | | **Total Concentration:** | 3380 | | | | |
| **Client ID:** | **SS-MW1-11.5ME** | | | | | | | |
| Q2075-06ME | SS-MW1-11.5ME | SOIL | Toluene | 83.3 | JD | 25.6 | 160 | ug/Kg |
| Q2075-06ME | SS-MW1-11.5ME | SOIL | Ethyl Benzene | 110 | JD | 22.0 | 160 | ug/Kg |
| Q2075-06ME | SS-MW1-11.5ME | SOIL | Total Xylenes | 630 | D | 67.6 | 490 | ug/Kg |
| Q2075-06ME | SS-MW1-11.5ME | SOIL | Isopropylbenzene | 42.8 | JD | 25.6 | 160 | ug/Kg |
| Q2075-06ME | SS-MW1-11.5ME | SOIL | n-propylbenzene | 130 | JD | 24.0 | 160 | ug/Kg |
| Q2075-06ME | SS-MW1-11.5ME | SOIL | 1,3,5-Trimethylbenzene | 220 | D | 26.9 | 160 | ug/Kg |
| Q2075-06ME | SS-MW1-11.5ME | SOIL | 1,2,4-Trimethylbenzene | 810 | D | 21.0 | 160 | ug/Kg |
| Q2075-06ME | SS-MW1-11.5ME | SOIL | sec-Butylbenzene | 63.9 | JD | 21.7 | 160 | ug/Kg |
| Q2075-06ME | SS-MW1-11.5ME | SOIL | p-Isopropyltoluene | 43.7 | JD | 20.4 | 160 | ug/Kg |
| Q2075-06ME | SS-MW1-11.5ME | SOIL | n-Butylbenzene | 180 | D | 47.6 | 160 | ug/Kg |
| | | | **Total Voc :** | 2310 | | | | |
| | | | **Total Concentration:** | 2310 | | | | |

# QC SUMMARY

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# Surrogate Summary

**SDG No.:** Q2075

**Client:** CDM Smith

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| Q2075-01 | SS-10 | 1,2-Dichloroethane-d4 | 50 | 53.3 | 107 | 63 | 155 |
| | | Dibromofluoromethane | 50 | 51.9 | 104 | 70 | 134 |
| | | Toluene-d8 | 50 | 50.7 | 101 | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 42.9 | 86 | 38 | 136 |
| Q2075-02 | SS-910 | 1,2-Dichloroethane-d4 | 50 | 48.7 | 97 | 63 | 155 |
| | | Dibromofluoromethane | 50 | 49.5 | 99 | 70 | 134 |
| | | Toluene-d8 | 50 | 48.7 | 97 | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 39.8 | 80 | 38 | 136 |
| Q2075-03 | SS-11 | 1,2-Dichloroethane-d4 | 50 | 46.7 | 93 | 63 | 155 |
| | | Dibromofluoromethane | 50 | 48.8 | 98 | 70 | 134 |
| | | Toluene-d8 | 50 | 48.7 | 97 | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 39.5 | 79 | 38 | 136 |
| Q2075-04MS | SS-11MS | 1,2-Dichloroethane-d4 | 50 | 49.2 | 98 | 63 | 155 |
| | | Dibromofluoromethane | 50 | 42.1 | 84 | 70 | 134 |
| | | Toluene-d8 | 50 | 39.0 | 78 | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 36.5 | 73 | 38 | 136 |
| Q2075-05MSD | SS-11MSD | 1,2-Dichloroethane-d4 | 50 | 62.7 | 125 | 63 | 155 |
| | | Dibromofluoromethane | 50 | 51.3 | 103 | 70 | 134 |
| | | Toluene-d8 | 50 | 45.1 | 90 | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 45.4 | 91 | 38 | 136 |
| Q2075-06 | SS-MW1-11.5 | 1,2-Dichloroethane-d4 | 50 | 44.5 | 89 | 63 | 155 |
| | | Dibromofluoromethane | 50 | 50.4 | 101 | 70 | 134 |
| | | Toluene-d8 | 50 | 55.4 | 111 | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 49.9 | 100 | 38 | 136 |
| Q2075-06ME | SS-MW1-11.5ME | 1,2-Dichloroethane-d4 | 50 | 51.0 | 102 | 63 | 155 |
| | | Dibromofluoromethane | 50 | 48.4 | 97 | 70 | 134 |
| | | Toluene-d8 | 50 | 50.7 | 101 | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 51.5 | 103 | 38 | 136 |
| VX0523MBL01 | VX0523MBL01 | 1,2-Dichloroethane-d4 | 50 | 53.1 | 106 | 63 | 155 |
| | | Dibromofluoromethane | 50 | 50.8 | 102 | 70 | 134 |
| | | Toluene-d8 | 50 | 50.0 | 100 | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 51.6 | 103 | 38 | 136 |
| VX0523MBS01 | VX0523MBS01 | 1,2-Dichloroethane-d4 | 50 | 52.0 | 104 | 63 | 155 |
| | | Dibromofluoromethane | 50 | 52.4 | 105 | 70 | 134 |
| | | Toluene-d8 | 50 | 50.3 | 101 | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 51.8 | 104 | 38 | 136 |
| VY0520SBL01 | VY0520SBL01 | 1,2-Dichloroethane-d4 | 50 | 45.7 | 91 | 63 | 155 |
| | | Dibromofluoromethane | 50 | 48.4 | 97 | 70 | 134 |
| | | Toluene-d8 | 50 | 48.6 | 97 | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 52.5 | 105 | 38 | 136 |
| VY0520SBS01 | VY0520SBS01 | 1,2-Dichloroethane-d4 | 50 | 52.8 | 106 | 63 | 155 |
| | | Dibromofluoromethane | 50 | 52.0 | 104 | 70 | 134 |
| | | Toluene-d8 | 50 | 51.5 | 103 | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 47.7 | 95 | 38 | 136 |
| VY0522SBL01 | VY0522SBL01 | 1,2-Dichloroethane-d4 | 50 | 48.9 | 98 | 63 | 155 |
| | | Dibromofluoromethane | 50 | 49.8 | 100 | 70 | 134 |
| | | Toluene-d8 | 50 | 48.7 | 97 | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 39.5 | 79 | 38 | 136 |
| VY0522SBS01 | VY0522SBS01 | 1,2-Dichloroethane-d4 | 50 | 48.4 | 97 | 63 | 155 |
| | | Dibromofluoromethane | 50 | 50.3 | 101 | 70 | 134 |

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# Surrogate Summary

**SDG No.:** Q2075

**Client:** CDM Smith

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| VY0522SBS01 | VY0522SBS01 | Toluene-d8 | 50 | 50.3 | 101 | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 47.7 | 95 | 38 | 136 |

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## Surrogate Summary

**SDG No.:** Q2075

**Client:** CDM Smith

**Analytical Method:** SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| Q2075-07 | FB-05152025 | 1,2-Dichloroethane-d4 | 50 | 53.2 | 106 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 49.3 | 99 | 75 | 124 |
| | | Toluene-d8 | 50 | 50.7 | 101 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 52.0 | 104 | 77 | 121 |
| Q2075-08 | FB-05162025 | 1,2-Dichloroethane-d4 | 50 | 52.2 | 104 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 50.1 | 100 | 75 | 124 |
| | | Toluene-d8 | 50 | 50.2 | 100 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 51.7 | 103 | 77 | 121 |
| VX0521WBL01 | VX0521WBL01 | 1,2-Dichloroethane-d4 | 50 | 53.5 | 107 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 50.9 | 102 | 75 | 124 |
| | | Toluene-d8 | 50 | 50.8 | 102 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 50.7 | 101 | 77 | 121 |
| VX0521WBS01 | VX0521WBS01 | 1,2-Dichloroethane-d4 | 50 | 53.6 | 107 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 54.3 | 109 | 75 | 124 |
| | | Toluene-d8 | 50 | 52.4 | 105 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 55.0 | 110 | 77 | 121 |
| VX0521WBSD0 | VX0521WBSD01 | 1,2-Dichloroethane-d4 | 50 | 54.2 | 108 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 55.1 | 110 | 75 | 124 |
| | | Toluene-d8 | 50 | 54.1 | 108 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 55.8 | 112 | 77 | 121 |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q2075

**Client:** CDM Smith

**Analytical Method:** SW8260D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID : Q2075-04MS** | | **Client Sample ID : SS-11MS** | | | | | | | **Datafile :** VY022350.D | | |
| Benzene | 34 | 0 | 31.6 | ug/Kg | 93 | | | | 59 | 140 | |
| Toluene | 34 | 5.20 | 40.1 | ug/Kg | 103 | | | | 61 | 134 | |
| Ethyl Benzene | 34 | 7.80 | 46.5 | ug/Kg | 114 | | | | 54 | 134 | |
| m/p-Xylenes | 67.9 | 29.5 | 130 | ug/Kg | 148 | * | | | 51 | 137 | |
| o-Xylene | 34 | 16.8 | 71.9 | ug/Kg | 162 | * | | | 57 | 139 | |
| Isopropylbenzene | 34 | 2.10 | 34.0 | ug/Kg | 94 | | | | 44 | 160 | |
| N-propylbenzene | 34 | 5.40 | 39.5 | ug/Kg | 100 | | | | 10 | 173 | |
| 1,3,5-Trimethylbenzene | 34 | 9.80 | 47.6 | ug/Kg | 111 | | | | 10 | 175 | |
| tert-Butylbenzene | 34 | 0 | 28.7 | ug/Kg | 84 | | | | 10 | 173 | |
| 1,2,4-Trimethylbenzene | 34 | 40.2 | 120 | ug/Kg | 235 | * | | | 10 | 175 | |
| Sec-butylbenzene | 34 | 1.40 | 30.9 | ug/Kg | 87 | | | | 10 | 172 | |
| p-Isopropyltoluene | 34 | 0 | 29.0 | ug/Kg | 85 | | | | 26 | 153 | |
| n-Butylbenzene | 34 | 1.40 | 30.5 | ug/Kg | 86 | | | | 10 | 175 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q2075

**Client:** CDM Smith

**Analytical Method:** SW8260D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID : Q2075-05MSD** | **Client Sample ID : SS-11MSD** | | | | | | | **Datafile :** VY022351.D | | | |
| Benzene | 34.3 | 0 | 43.1 | ug/Kg | 126 | | 30 | * | 59 | 140 | 20 |
| Toluene | 34.3 | 5.20 | 52.7 | ug/Kg | 138 | * | 29 | * | 61 | 134 | 20 |
| Ethyl Benzene | 34.3 | 7.80 | 54.6 | ug/Kg | 136 | * | 18 | | 54 | 134 | 20 |
| m/p-Xylenes | 68.7 | 29.5 | 140 | ug/Kg | 161 | * | 8 | | 51 | 137 | 20 |
| o-Xylene | 34.3 | 16.8 | 78.5 | ug/Kg | 180 | * | 11 | | 57 | 139 | 20 |
| Isopropylbenzene | 34.3 | 2.10 | 40.5 | ug/Kg | 112 | | 17 | | 44 | 160 | 20 |
| N-propylbenzene | 34.3 | 5.40 | 43.6 | ug/Kg | 111 | | 10 | | 10 | 173 | 20 |
| 1,3,5-Trimethylbenzene | 34.3 | 9.80 | 49.0 | ug/Kg | 114 | | 3 | | 10 | 175 | 20 |
| tert-Butylbenzene | 34.3 | 0 | 37.7 | ug/Kg | 110 | | 26 | * | 10 | 173 | 20 |
| 1,2,4-Trimethylbenzene | 34.3 | 40.2 | 96.4 | ug/Kg | 164 | | 36 | * | 10 | 175 | 20 |
| Sec-butylbenzene | 34.3 | 1.40 | 37.6 | ug/Kg | 106 | | 20 | | 10 | 172 | 20 |
| p-Isopropyltoluene | 34.3 | 0 | 36.2 | ug/Kg | 106 | | 21 | * | 26 | 153 | 20 |
| n-Butylbenzene | 34.3 | 1.40 | 36.4 | ug/Kg | 102 | | 17 | | 10 | 175 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2075

**Client:** CDM Smith

**Analytical Method:** SW8260-Low **Datafile :** VX046287.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VX0521WBS01 | Benzene | 20 | 20.3 | ug/L | 102 | | | 82 | 109 | |
| | Toluene | 20 | 20.5 | ug/L | 103 | | | 82 | 110 | |
| | Ethyl Benzene | 20 | 20.1 | ug/L | 101 | | | 83 | 109 | |
| | m/p-Xylenes | 40 | 40.3 | ug/L | 101 | | | 82 | 110 | |
| | o-Xylene | 20 | 20.9 | ug/L | 104 | | | 83 | 109 | |
| | Isopropylbenzene | 20 | 20.4 | ug/L | 102 | | | 83 | 112 | |
| | N-propylbenzene | 20 | 20.4 | ug/L | 102 | | | 83 | 112 | |
| | 1,3,5-Trimethylbenzene | 20 | 21.1 | ug/L | 106 | | | 85 | 112 | |
| | tert-Butylbenzene | 20 | 20.2 | ug/L | 101 | | | 83 | 112 | |
| | 1,2,4-Trimethylbenzene | 20 | 20.7 | ug/L | 104 | | | 85 | 111 | |
| | Sec-butylbenzene | 20 | 20.3 | ug/L | 102 | | | 81 | 114 | |
| | p-Isopropyltoluene | 20 | 20.5 | ug/L | 103 | | | 78 | 116 | |
| | n-Butylbenzene | 20 | 19.7 | ug/L | 99 | | | 75 | 115 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2075

**Client:** CDM Smith

**Analytical Method:** SW8260-Low **Datafile :** VX046288.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VX0521WBSD01 | Benzene | 20 | 20.4 | ug/L | 102 | 0 | | 82 | 109 | 20 |
| | Toluene | 20 | 21.1 | ug/L | 106 | 3 | | 82 | 110 | 20 |
| | Ethyl Benzene | 20 | 20.4 | ug/L | 102 | 1 | | 83 | 109 | 20 |
| | m/p-Xylenes | 40 | 41.1 | ug/L | 103 | 2 | | 82 | 110 | 20 |
| | o-Xylene | 20 | 21.0 | ug/L | 105 | 1 | | 83 | 109 | 20 |
| | Isopropylbenzene | 20 | 20.8 | ug/L | 104 | 2 | | 83 | 112 | 20 |
| | N-propylbenzene | 20 | 20.7 | ug/L | 104 | 2 | | 83 | 112 | 20 |
| | 1,3,5-Trimethylbenzene | 20 | 21.0 | ug/L | 105 | 1 | | 85 | 112 | 20 |
| | tert-Butylbenzene | 20 | 20.5 | ug/L | 103 | 2 | | 83 | 112 | 20 |
| | 1,2,4-Trimethylbenzene | 20 | 20.9 | ug/L | 104 | 0 | | 85 | 111 | 20 |
| | Sec-butylbenzene | 20 | 21.1 | ug/L | 106 | 4 | | 81 | 114 | 20 |
| | p-Isopropyltoluene | 20 | 20.7 | ug/L | 104 | 1 | | 78 | 116 | 20 |
| | n-Butylbenzene | 20 | 20.2 | ug/L | 101 | 2 | | 75 | 115 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2075

**Client:** CDM Smith

**Analytical Method:** SW8260D **Datafile :** VX046335.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VX0523MBS01 | Benzene | 2000 | 2000 | ug/Kg | 100 | | | 84 | 121 | |
| | Toluene | 2000 | 2000 | ug/Kg | 100 | | | 83 | 122 | |
| | Ethyl Benzene | 2000 | 2000 | ug/Kg | 100 | | | 82 | 124 | |
| | m/p-Xylenes | 4000 | 4000 | ug/Kg | 100 | | | 83 | 124 | |
| | o-Xylene | 2000 | 2100 | ug/Kg | 105 | | | 83 | 123 | |
| | Isopropylbenzene | 2000 | 2000 | ug/Kg | 100 | | | 82 | 124 | |
| | N-propylbenzene | 2000 | 1900 | ug/Kg | 95 | | | 81 | 123 | |
| | 1,3,5-Trimethylbenzene | 2000 | 2100 | ug/Kg | 105 | | | 82 | 124 | |
| | tert-Butylbenzene | 2000 | 2000 | ug/Kg | 100 | | | 81 | 125 | |
| | 1,2,4-Trimethylbenzene | 2000 | 2000 | ug/Kg | 100 | | | 81 | 125 | |
| | Sec-butylbenzene | 2000 | 2000 | ug/Kg | 100 | | | 80 | 124 | |
| | p-Isopropyltoluene | 2000 | 2000 | ug/Kg | 100 | | | 81 | 125 | |
| | n-Butylbenzene | 2000 | 1900 | ug/Kg | 95 | | | 78 | 126 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2075

**Client:** CDM Smith

**Analytical Method:** SW8260D **Datafile :** VY022331.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0520SBS01 | Benzene | 20 | 20.8 | ug/Kg | 104 | | | 84 | 121 | |
| | Toluene | 20 | 20.0 | ug/Kg | 100 | | | 83 | 122 | |
| | Ethyl Benzene | 20 | 19.8 | ug/Kg | 99 | | | 82 | 124 | |
| | m/p-Xylenes | 40 | 39.6 | ug/Kg | 99 | | | 83 | 124 | |
| | o-Xylene | 20 | 20.2 | ug/Kg | 101 | | | 83 | 123 | |
| | Isopropylbenzene | 20 | 20.1 | ug/Kg | 101 | | | 82 | 124 | |
| | N-propylbenzene | 20 | 20.3 | ug/Kg | 102 | | | 81 | 123 | |
| | 1,3,5-Trimethylbenzene | 20 | 19.5 | ug/Kg | 98 | | | 82 | 124 | |
| | tert-Butylbenzene | 20 | 19.8 | ug/Kg | 99 | | | 81 | 125 | |
| | 1,2,4-Trimethylbenzene | 20 | 19.3 | ug/Kg | 97 | | | 81 | 125 | |
| | Sec-butylbenzene | 20 | 20.0 | ug/Kg | 100 | | | 80 | 124 | |
| | p-Isopropyltoluene | 20 | 19.3 | ug/Kg | 97 | | | 81 | 125 | |
| | n-Butylbenzene | 20 | 19.7 | ug/Kg | 99 | | | 78 | 126 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2075

**Client:** CDM Smith

**Analytical Method:** SW8260D **Datafile :** VY022382.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0522SBS01 | Benzene | 20 | 19.5 | ug/Kg | 98 | | | 84 | 121 | |
| | Toluene | 20 | 19.4 | ug/Kg | 97 | | | 83 | 122 | |
| | Ethyl Benzene | 20 | 18.7 | ug/Kg | 94 | | | 82 | 124 | |
| | m/p-Xylenes | 40 | 38.0 | ug/Kg | 95 | | | 83 | 124 | |
| | o-Xylene | 20 | 18.8 | ug/Kg | 94 | | | 83 | 123 | |
| | Isopropylbenzene | 20 | 19.3 | ug/Kg | 97 | | | 82 | 124 | |
| | N-propylbenzene | 20 | 19.4 | ug/Kg | 97 | | | 81 | 123 | |
| | 1,3,5-Trimethylbenzene | 20 | 18.9 | ug/Kg | 95 | | | 82 | 124 | |
| | tert-Butylbenzene | 20 | 19.2 | ug/Kg | 96 | | | 81 | 125 | |
| | 1,2,4-Trimethylbenzene | 20 | 18.8 | ug/Kg | 94 | | | 81 | 125 | |
| | Sec-butylbenzene | 20 | 19.4 | ug/Kg | 97 | | | 80 | 124 | |
| | p-Isopropyltoluene | 20 | 19.0 | ug/Kg | 95 | | | 81 | 125 | |
| | n-Butylbenzene | 20 | 19.3 | ug/Kg | 97 | | | 78 | 126 | |

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0521WBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VX046286.D Lab Sample ID: VX0521WBL01

Date Analyzed: 05/21/2025 Time Analyzed: 10:46

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 |
|---|---|---|---|
| VX0521WBS01 | VX0521WBS01 | VX046287.D | 05/21/2025 |
| VX0521WBSD01 | VX0521WBSD01 | VX046288.D | 05/21/2025 |
| FB-05152025 | Q2075-07 | VX046292.D | 05/21/2025 |
| FB-05162025 | Q2075-08 | VX046293.D | 05/21/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0523MBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VX046332.D Lab Sample ID: VX0523MBL01

Date Analyzed: 05/23/2025 Time Analyzed: 09:53

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 |
|---|---|---|---|
| VX0523MBS01 | VX0523MBS01 | VX046335.D | 05/23/2025 |
| SS-MW1-11.5ME | Q2075-06ME | VX046336.D | 05/23/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0520SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VY022330.D Lab Sample ID: VY0520SBL01

Date Analyzed: 05/20/2025 Time Analyzed: 09:48

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

Instrument ID: MSVOA_Y

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VY0520SBS01 | VY0520SBS01 | VY022331.D | 05/20/2025 |
| SS-10 | Q2075-01 | VY022343.D | 05/20/2025 |
| SS-910 | Q2075-02 | VY022344.D | 05/20/2025 |
| SS-11 | Q2075-03 | VY022345.D | 05/20/2025 |
| SS-11MS | Q2075-04MS | VY022350.D | 05/20/2025 |
| SS-11MSD | Q2075-05MSD | VY022351.D | 05/20/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0522SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VY022381.D Lab Sample ID: VY0522SBL01

Date Analyzed: 05/22/2025 Time Analyzed: 09:07

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

Instrument ID: MSVOA_Y

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VY0522SBS01 | VY0522SBS01 | VY022382.D | 05/22/2025 |
| SS-MW1-11.5 | Q2075-06 | VY022403.D | 05/22/2025 |

COMMENTS:

Alliance TECHNICAL GROUP
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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VX046038.D BFB Injection Date: 05/05/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:37

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 | 22.1 |
| 75 | 30.0 - 60.0% of mass 95 | 56.2 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.4 |
| 173 | Less than 2.0% of mass 174 | 0.5 ( 0.7 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 68.8 |
| 175 | 5.0 - 9.0% of mass 174 | 5 ( 7.3 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 66.7 ( 97 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.6 ( 6.9 ) 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 |
|---|---|---|---|---|
| VSTDICC020 | VSTDICC020 | VX046041.D | 05/05/2025 | 11:35 |
| VSTDICCC050 | VSTDICCC050 | VX046042.D | 05/05/2025 | 11:58 |
| VSTDICC100 | VSTDICC100 | VX046043.D | 05/05/2025 | 12:21 |
| VSTDICC150 | VSTDICC150 | VX046044.D | 05/05/2025 | 12:45 |
| VSTDICC005 | VSTDICC005 | VX046046.D | 05/05/2025 | 16:04 |
| VSTDICC001 | VSTDICC001 | VX046047.D | 05/05/2025 | 16:27 |

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

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VX046283.D BFB Injection Date: 05/21/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:13

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 | 21.4 |
| 75 | 30.0 - 60.0% of mass 95 | 56.9 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 7 |
| 173 | Less than 2.0% of mass 174 | 0.6 ( 0.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 70.1 |
| 175 | 5.0 - 9.0% of mass 174 | 5.4 ( 7.7 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 67.1 ( 95.7 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.3 ( 6.5 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VX046284.D | 05/21/2025 | 09:55 |
| VX0521WBL01 | VX0521WBL01 | VX046286.D | 05/21/2025 | 10:46 |
| VX0521WBS01 | VX0521WBS01 | VX046287.D | 05/21/2025 | 11:09 |
| VX0521WBSD01 | VX0521WBSD01 | VX046288.D | 05/21/2025 | 11:36 |
| FB-05152025 | Q2075-07 | VX046292.D | 05/21/2025 | 13:09 |
| FB-05162025 | Q2075-08 | VX046293.D | 05/21/2025 | 13:32 |

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

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VX046330.D BFB Injection Date: 05/23/2025

Instrument ID: MSVOA_X BFB Injection Time: 08:25

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 | 22 |
| 75 | 30.0 - 60.0% of mass 95 | 56.7 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.7 |
| 173 | Less than 2.0% of mass 174 | 0.8 ( 1.2 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 66.8 |
| 175 | 5.0 - 9.0% of mass 174 | 4.6 ( 6.9 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 64 ( 95.9 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.1 ( 6.4 ) 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 | VX046331.D | 05/23/2025 | 09:24 |
| VX0523MBL01 | VX0523MBL01 | VX046332.D | 05/23/2025 | 09:53 |
| VX0523MBS01 | VX0523MBS01 | VX046335.D | 05/23/2025 | 11:23 |
| SS-MW1-11.5ME | Q2075-06ME | VX046336.D | 05/23/2025 | 11:46 |

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

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VY022252.D BFB Injection Date: 05/15/2025

Instrument ID: MSVOA_Y BFB Injection Time: 07:52

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 24 |
| 75 | 30.0 - 60.0% of mass 95 | 55.9 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.8 |
| 173 | Less than 2.0% of mass 174 | 0.7 ( 0.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 80.5 |
| 175 | 5.0 - 9.0% of mass 174 | 5.9 ( 7.3 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 77.5 ( 96.3 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.3 ( 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 |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VY022253.D | 05/15/2025 | 09:46 |
| VSTDICC010 | VSTDICC010 | VY022254.D | 05/15/2025 | 10:16 |
| VSTDICC020 | VSTDICC020 | VY022255.D | 05/15/2025 | 10:39 |
| VSTDICCC050 | VSTDICCC050 | VY022256.D | 05/15/2025 | 11:02 |
| VSTDICC100 | VSTDICC100 | VY022257.D | 05/15/2025 | 11:24 |
| VSTDICC150 | VSTDICC150 | VY022258.D | 05/15/2025 | 11:47 |

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

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VY022328.D BFB Injection Date: 05/20/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:09

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 24.5 |
| 75 | 30.0 - 60.0% of mass 95 | 58.5 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.7 |
| 173 | Less than 2.0% of mass 174 | 1 ( 1.2 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 82.9 |
| 175 | 5.0 - 9.0% of mass 174 | 6.4 ( 7.7 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 80.3 ( 96.8 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.4 ( 6.7 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY022329.D | 05/20/2025 | 08:40 |
| VY0520SBL01 | VY0520SBL01 | VY022330.D | 05/20/2025 | 09:48 |
| VY0520SBS01 | VY0520SBS01 | VY022331.D | 05/20/2025 | 10:21 |
| SS-10 | Q2075-01 | VY022343.D | 05/20/2025 | 15:22 |
| SS-910 | Q2075-02 | VY022344.D | 05/20/2025 | 15:45 |
| SS-11 | Q2075-03 | VY022345.D | 05/20/2025 | 16:09 |
| SS-11MS | Q2075-04MS | VY022350.D | 05/20/2025 | 18:04 |
| SS-11MSD | Q2075-05MSD | VY022351.D | 05/20/2025 | 18:26 |

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

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VY022379.D BFB Injection Date: 05/22/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:05

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 24.1 |
| 75 | 30.0 - 60.0% of mass 95 | 57.8 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.7 |
| 173 | Less than 2.0% of mass 174 | 1.1 ( 1.3 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 86.1 |
| 175 | 5.0 - 9.0% of mass 174 | 6.4 ( 7.5 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 83.8 ( 97.4 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.5 ( 6.5 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY022380.D | 05/22/2025 | 08:35 |
| VY0522SBL01 | VY0522SBL01 | VY022381.D | 05/22/2025 | 09:07 |
| VY0522SBS01 | VY0522SBS01 | VY022382.D | 05/22/2025 | 09:36 |
| SS-MW1-11.5 | Q2075-06 | VY022403.D | 05/22/2025 | 18:03 |

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VX046284.D Date Analyzed: 05/21/2025

Instrument ID: MSVOA_X Time Analyzed: 09:55

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 | 95080 | 5.54 | 161730 | 6.75 | 140445 | 10.05 |
| UPPER LIMIT | 190160 | 6.037 | 323460 | 7.251 | 280890 | 10.549 |
| LOWER LIMIT | 47540 | 5.037 | 80865 | 6.251 | 70222.5 | 9.549 |
| EPA SAMPLE NO. | | | | | | |
| FB-05152025 | 63566 | 5.55 | 126684 | 6.76 | 120601 | 10.05 |
| FB-05162025 | 67975 | 5.55 | 135035 | 6.76 | 128288 | 10.05 |
| VX0521WBL01 | 66690 | 5.54 | 132814 | 6.76 | 124685 | 10.05 |
| VX0521WBS01 | 83102 | 5.54 | 146697 | 6.76 | 130479 | 10.05 |
| VX0521WBSD01 | 82656 | 5.54 | 142441 | 6.76 | 127622 | 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: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VX046284.D Date Analyzed: 05/21/2025

Instrument ID: MSVOA_X Time Analyzed: 09:55

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 67683 | 12.018 | | | | |
| UPPER LIMIT | 135366 | 12.518 | | | | |
| LOWER LIMIT | 33841.5 | 11.518 | | | | |
| EPA SAMPLE NO. | | | | | | |
| FB-05152025 | 52644 | 12.02 | | | | |
| FB-05162025 | 55957 | 12.02 | | | | |
| VX0521WBL01 | 53099 | 12.02 | | | | |
| VX0521WBS01 | 62651 | 12.02 | | | | |
| VX0521WBSD01 | 60955 | 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.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VX046331.D Date Analyzed: 05/23/2025

Instrument ID: MSVOA_X Time Analyzed: 09:24

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 | 89943 | 5.54 | 154938 | 6.76 | 137123 | 10.05 |
| UPPER LIMIT | 179886 | 6.044 | 309876 | 7.257 | 274246 | 10.549 |
| LOWER LIMIT | 44971.5 | 5.044 | 77469 | 6.257 | 68561.5 | 9.549 |
| EPA SAMPLE NO. | | | | | | |
| SS-MW1-11.5ME | 61392 | 5.54 | 119098 | 6.76 | 110366 | 10.05 |
| VX0523MBL01 | 59074 | 5.54 | 117281 | 6.76 | 111918 | 10.05 |
| VX0523MBS01 | 83340 | 5.54 | 146324 | 6.76 | 129426 | 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: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VX046331.D Date Analyzed: 05/23/2025

Instrument ID: MSVOA_X Time Analyzed: 09:24

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 66629 | 12.018 | | | | |
| UPPER LIMIT | 133258 | 12.518 | | | | |
| LOWER LIMIT | 33314.5 | 11.518 | | | | |
| EPA SAMPLE NO. | | | | | | |
| SS-MW1-11.5ME | 48680 | 12.02 | | | | |
| VX0523MBL01 | 48375 | 12.02 | | | | |
| VX0523MBS01 | 63342 | 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.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VY022329.D Date Analyzed: 05/20/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:40

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

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 180374 | 7.71 | 298369 | 8.62 | 252391 | 11.41 |
| UPPER LIMIT | 360748 | 8.207 | 596738 | 9.116 | 504782 | 11.914 |
| LOWER LIMIT | 90187 | 7.207 | 149185 | 8.116 | 126196 | 10.914 |
| EPA SAMPLE NO. | | | | | | |
| SS-10 | 237248 | 7.71 | 425729 | 8.62 | 352723 | 11.41 |
| SS-910 | 241551 | 7.71 | 430984 | 8.62 | 344445 | 11.41 |
| SS-11 | 239791 | 7.71 | 432569 | 8.62 | 345893 | 11.41 |
| SS-11MS | 134739 | 7.71 | 248613 | 8.62 | 210937 | 11.41 |
| SS-11MSD | 117744 | 7.71 | 220285 | 8.62 | 197296 | 11.41 |
| VY0520SBL01 | 253729 | 7.71 | 453295 | 8.62 | 355808 | 11.42 |
| VY0520SBS01 | 162404 | 7.71 | 280923 | 8.62 | 236555 | 11.42 |

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

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

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

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VY022329.D Date Analyzed: 05/20/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:40

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 120747 | 13.346 | | | | |
| UPPER LIMIT | 241494 | 13.846 | | | | |
| LOWER LIMIT | 60373.5 | 12.846 | | | | |
| EPA SAMPLE NO. | | | | | | |
| SS-10 | 138928 | 13.35 | | | | |
| SS-910 | 126954 | 13.35 | | | | |
| SS-11 | 130644 | 13.35 | | | | |
| SS-11MS | 91777 | 13.35 | | | | |
| SS-11MSD | 91227 | 13.35 | | | | |
| VY0520SBL01 | 124571 | 13.35 | | | | |
| VY0520SBS01 | 111469 | 13.35 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VY022380.D Date Analyzed: 05/22/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:35

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

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 161495 | 7.72 | 274168 | 8.62 | 235238 | 11.42 |
| UPPER LIMIT | 322990 | 8.22 | 548336 | 9.122 | 470476 | 11.92 |
| LOWER LIMIT | 80747.5 | 7.22 | 137084 | 8.122 | 117619 | 10.92 |
| EPA SAMPLE NO. | | | | | | |
| SS-MW1-11.5 | 234597 | 7.72 | 407953 | 8.62 | 330547 | 11.42 |
| VY0522SBL01 | 263712 | 7.72 | 465826 | 8.62 | 376365 | 11.42 |
| VY0522SBS01 | 174604 | 7.72 | 293942 | 8.62 | 250842 | 11.42 |

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

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

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

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG NO.: Q2075

Lab File ID: VY022380.D Date Analyzed: 05/22/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:35

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 110586 | 13.353 | | | | |
| UPPER LIMIT | 221172 | 13.853 | | | | |
| LOWER LIMIT | 55293 | 12.853 | | | | |
| EPA SAMPLE NO. | | | | | | |
| SS-MW1-11.5 | 155760 | 13.35 | | | | |
| VY0522SBL01 | 137350 | 13.35 | | | | |
| VY0522SBS01 | 118480 | 13.35 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 05/15/25 |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | 05/16/25 |
| Client Sample ID: | SS-10 | SDG No.: | Q2075 |
| Lab Sample ID: | Q2075-01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 79.8 |
| Sample Wt/Vol: | 7.75 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022343.D | 1 | | 05/20/25 15:22 | VY052025 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 4.00 | U | 0.64 | 4.00 | ug/Kg |
| 108-88-3 | Toluene | 4.00 | U | 0.63 | 4.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 21.1 | | 0.54 | 4.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 93.8 | | 1.66 | 12.1 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 5.70 | | 0.63 | 4.00 | ug/Kg |
| 103-65-1 | n-propylbenzene | 13.1 | | 0.59 | 4.00 | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | 23.4 | | 0.66 | 4.00 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 4.00 | U | 0.54 | 4.00 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 90.2 | | 0.52 | 4.00 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 3.50 | J | 0.53 | 4.00 | ug/Kg |
| 99-87-6 | p-Isopropyltoluene | 2.10 | J | 0.50 | 4.00 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 3.70 | J | 1.20 | 4.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.3 | | 63 - 155 | 107% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.9 | | 70 - 134 | 104% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.7 | | 74 - 123 | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 42.9 | | 38 - 136 | 86% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 237000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 426000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 353000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 139000 | 13.346 | | | |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022343.D
Acq On : 20 May 2025 15:22
Operator : SY/MD
Sample : Q2075-01
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-10

Quant Time: May 21 01:50:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

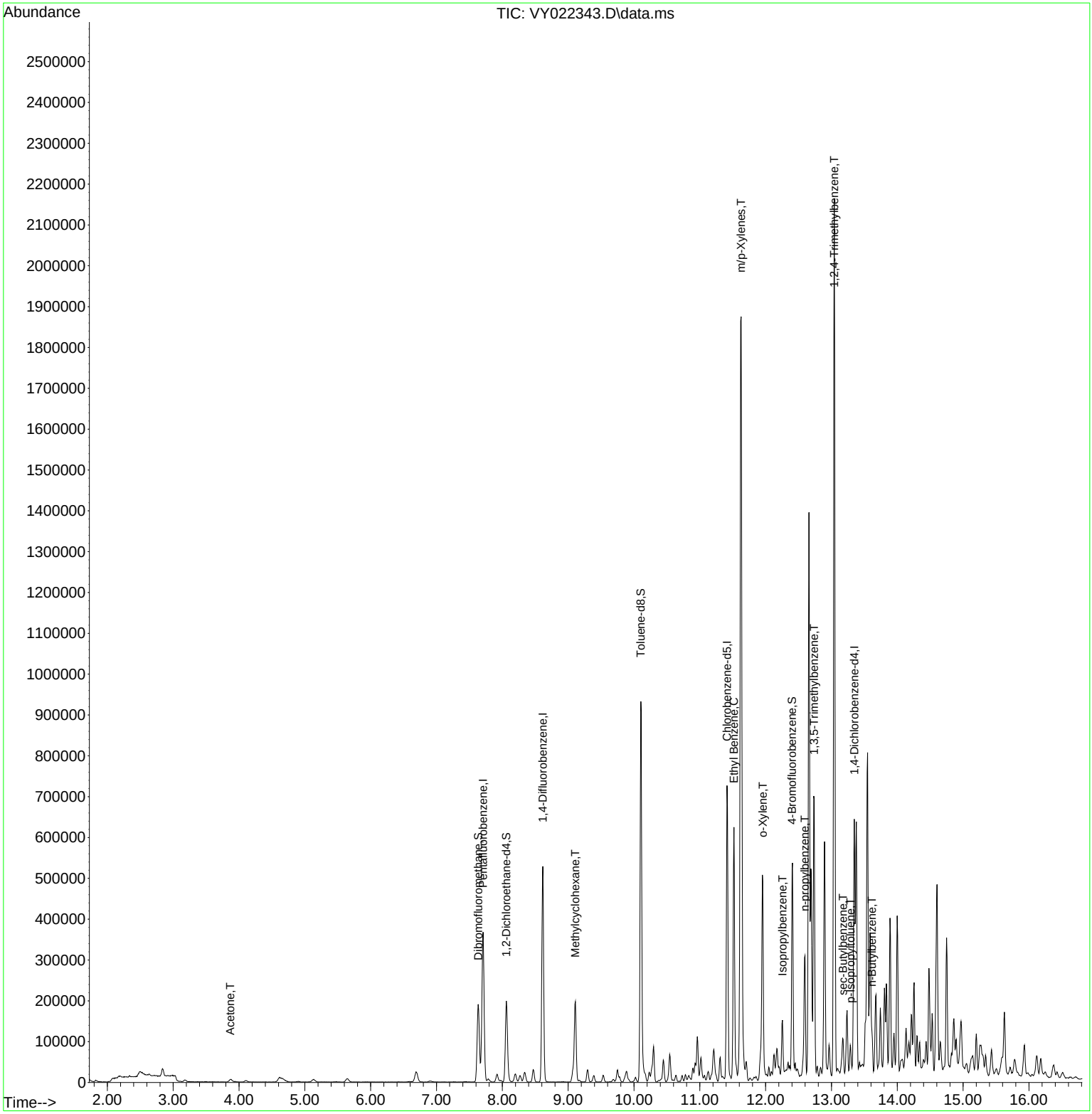
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 237248 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 425729 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 352723 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 138928 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 138286 | 53.333 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 106.660% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 131771 | 51.858 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 103.720% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 527709 | 50.708 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 101.420% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 141599 | 42.927 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 85.860% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 3.866 | 43 | 12110 | 24.908 | ug/l | 93 |
| 39) Methylcyclohexane | 9.109 | 83 | 83214 | 14.799 | ug/l | 98 |
| 67) Ethyl Benzene | 11.517 | 91 | 389483 | 26.134 | ug/l | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 524191 | 93.342 | ug/l | 99 |
| 69) o-Xylene | 11.956 | 106 | 120547 | 22.688 | ug/l | 96 |
| 73) Isopropylbenzene | 12.255 | 105 | 81195 | 7.055 | ug/l | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 224654 | 16.182 | ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 268724 | 28.923 | ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 1029267 | 111.599 | ug/l | 98 |
| 85) sec-Butylbenzene | 13.176 | 105 | 52433 | 4.277 | ug/l | 87 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 27391 | 2.657 | ug/l | 97 |
| 89) n-Butylbenzene | 13.615 | 91 | 44165 | 4.528 | ug/l # | 78 |

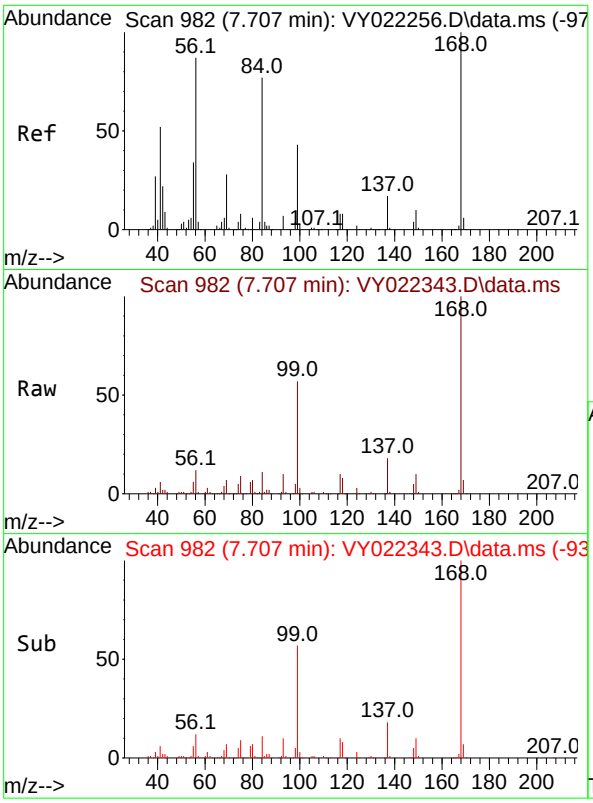
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022343.D
Acq On : 20 May 2025 15:22
Operator : SY/MD
Sample : Q2075-01
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-10

Quant Time: May 21 01:50:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



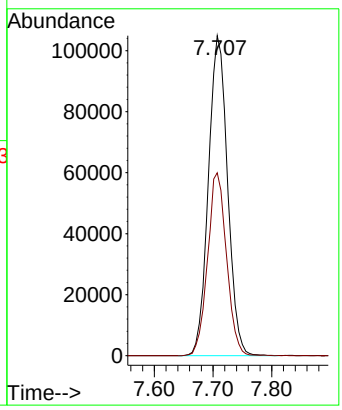


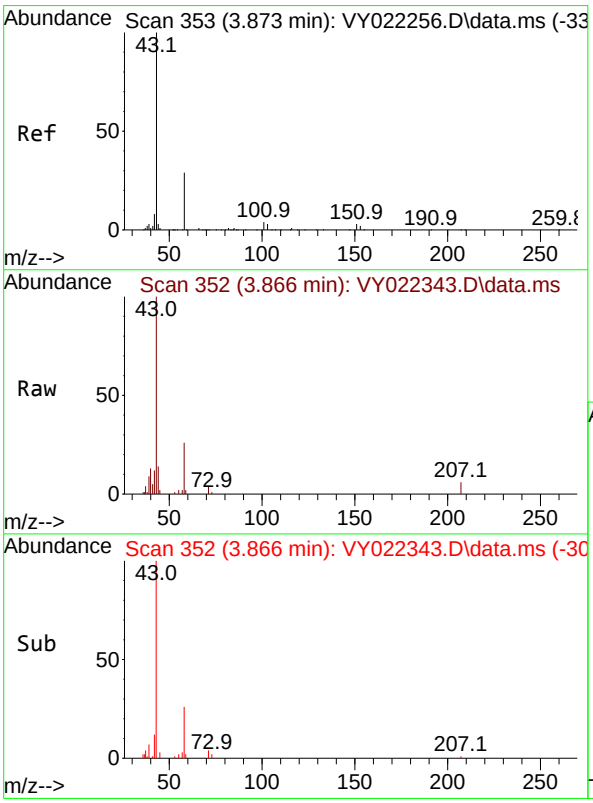

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-10

Tgt Ion:168 Resp: 237248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.2 | 44.2 | 66.4 |

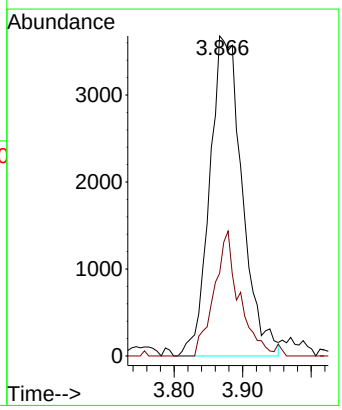


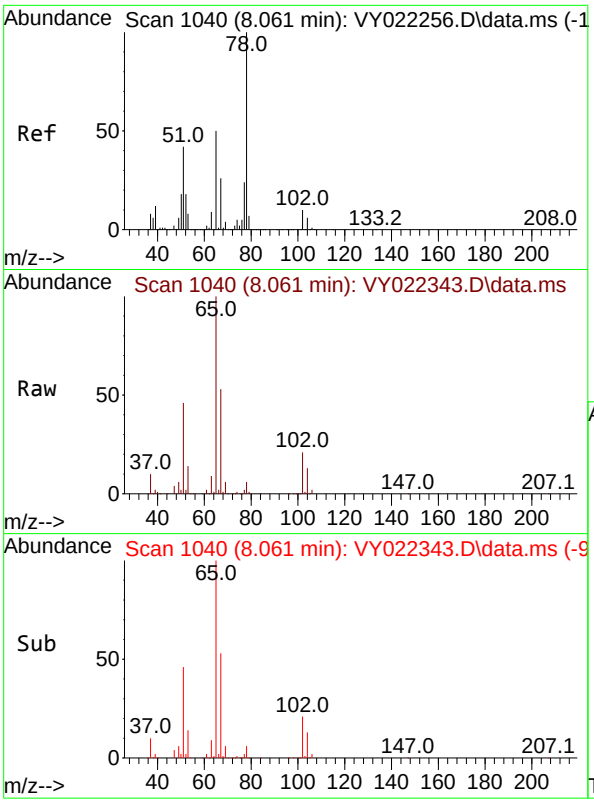




#16
Acetone
Concen: 24.908 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

Tgt Ion: 43 Resp: 12110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.9 | 23.6 | 35.4 |



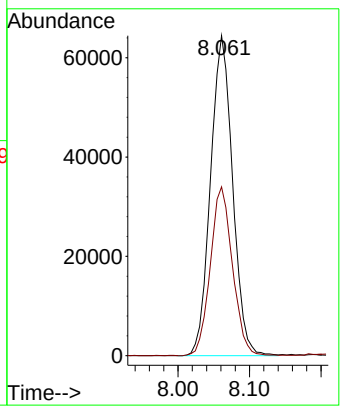


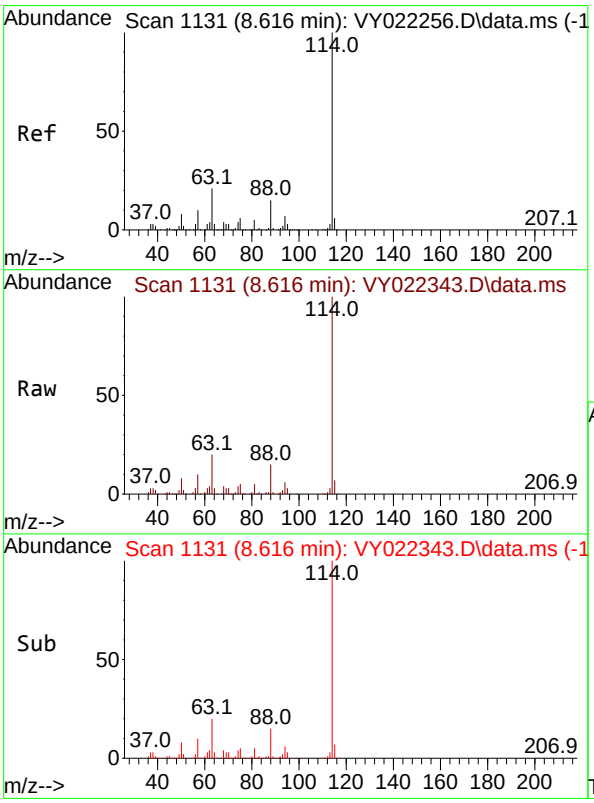

#33
1,2-Dichloroethane-d4
Concen: 53.333 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-10

Tgt Ion: 65 Resp: 138286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.8 | 0.0 | 104.6 |

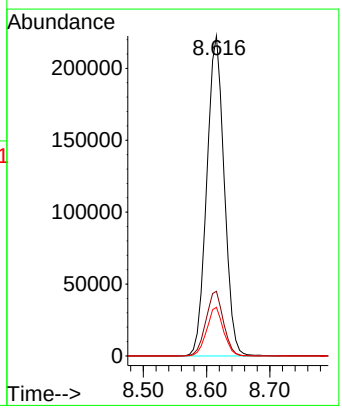


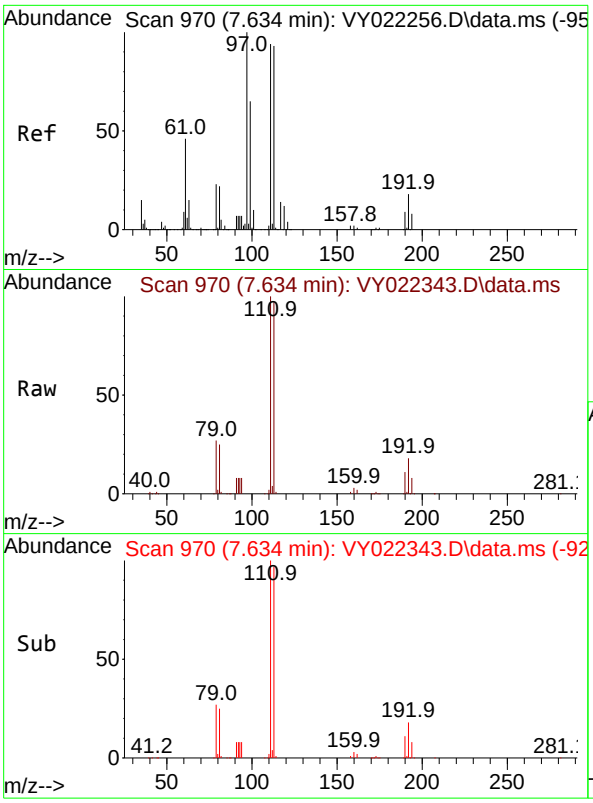




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

Tgt Ion:114 Resp: 425729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.2 | 0.0 | 41.0 |
| 88 | 15.2 | 0.0 | 29.4 |



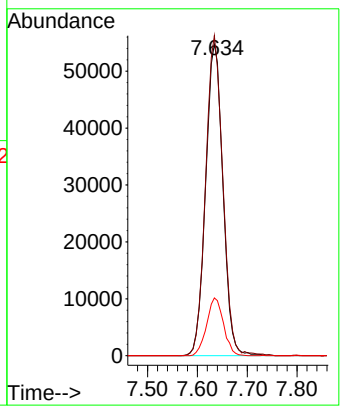


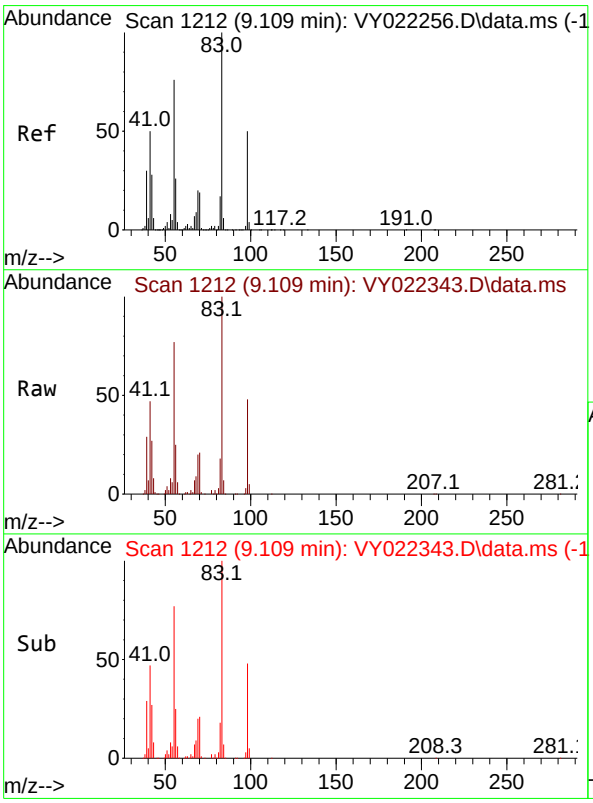

#35
Dibromofluoromethane
Concen: 51.858 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-10

Tgt Ion:113 Resp: 131771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.3 | 82.6 | 123.8 |
| 192 | 18.1 | 15.2 | 22.8 |

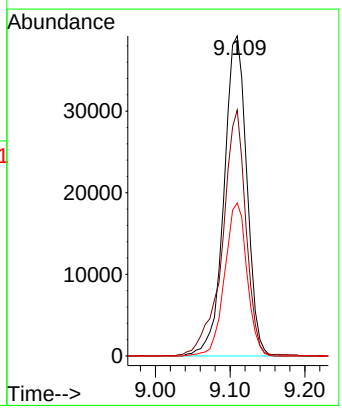


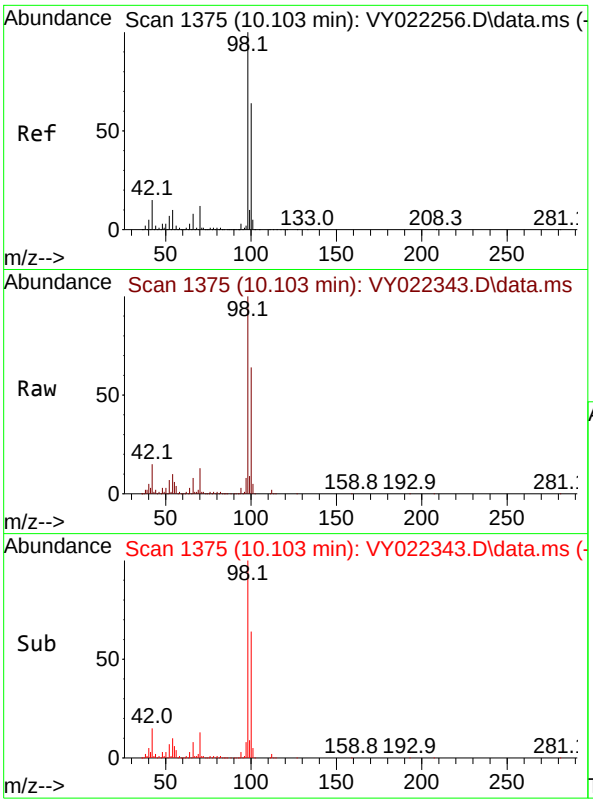




#39
Methylcyclohexane
Concen: 14.799 ug/l
RT: 9.109 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

Tgt Ion: 83 Resp: 83214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.5 | 60.6 | 90.8 |
| 98 | 47.8 | 40.0 | 60.0 |



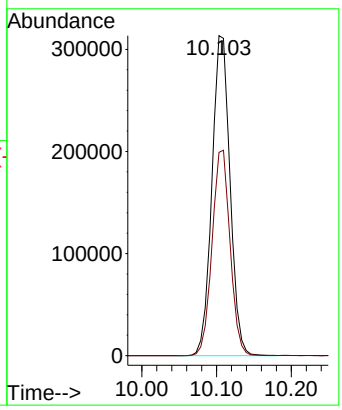


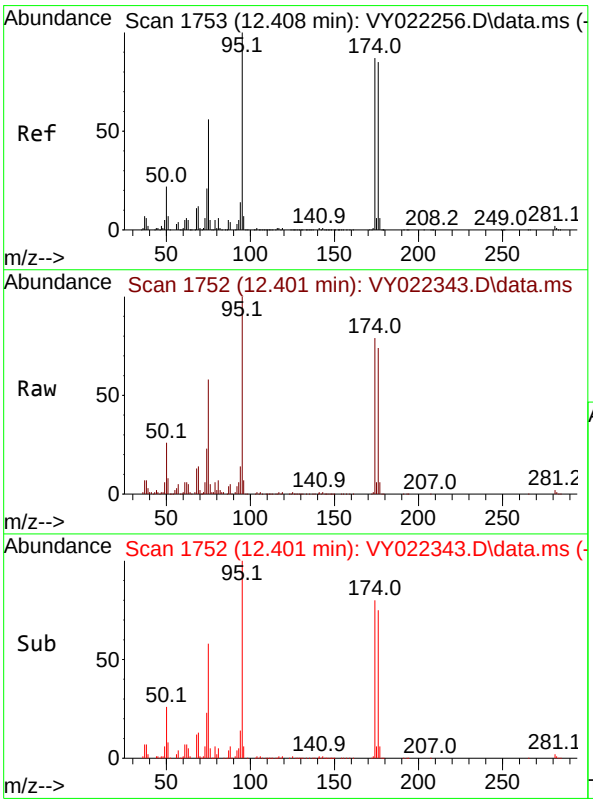

#50
Toluene-d8
Concen: 50.708 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-10

Tgt Ion: 98 Resp: 527709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.9 | 51.8 | 77.8 |

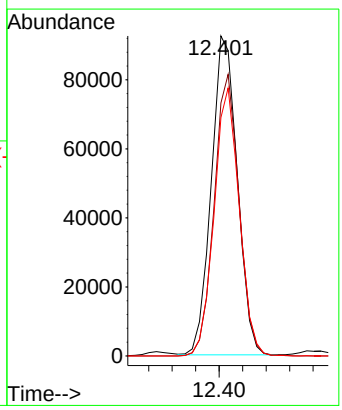


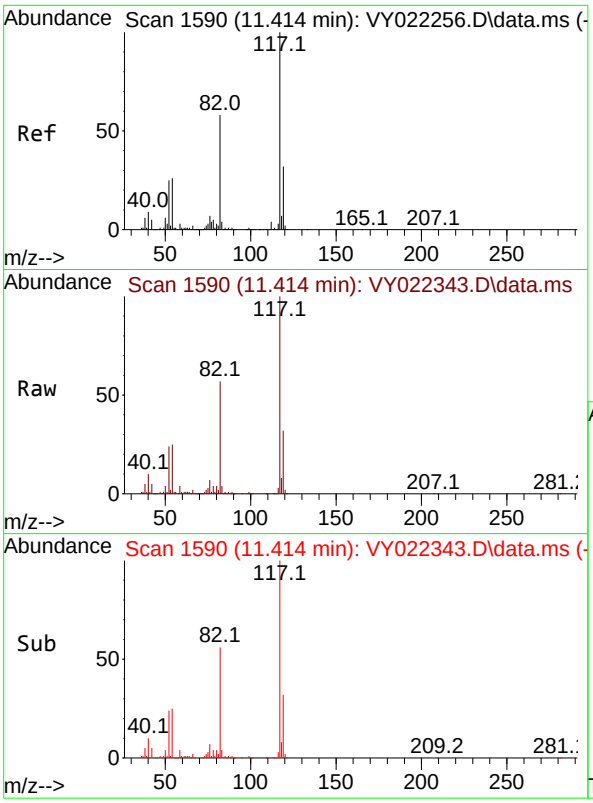




#62
4-Bromofluorobenzene
Concen: 42.927 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

Tgt Ion: 95 Resp: 141599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.9 | 0.0 | 166.8 |
| 176 | 81.5 | 0.0 | 160.8 |



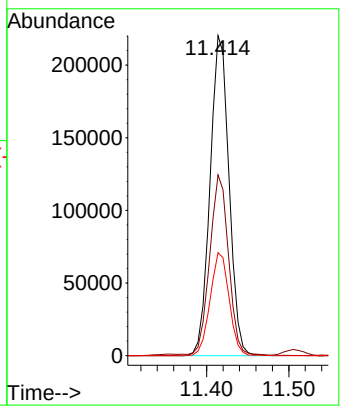


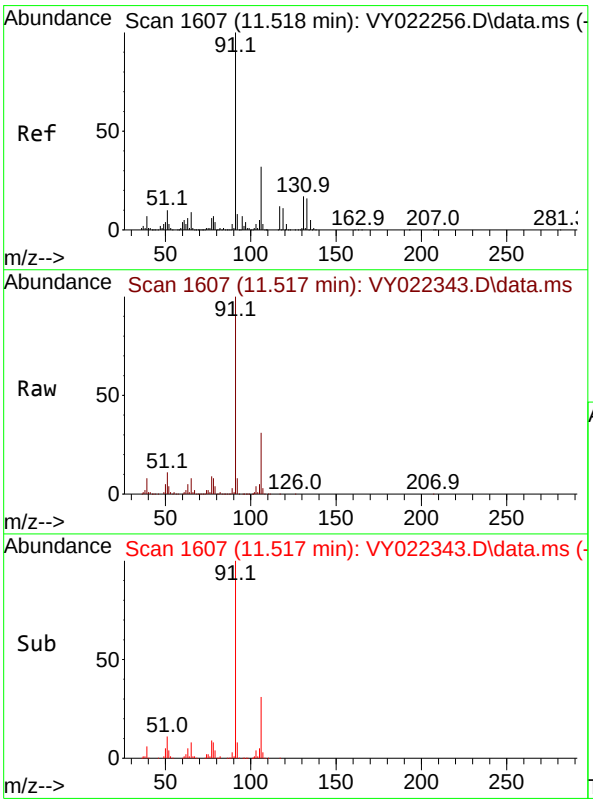

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-10

Tgt Ion:117 Resp: 352723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.1 | 46.6 | 70.0 |
| 119 | 32.2 | 25.8 | 38.6 |

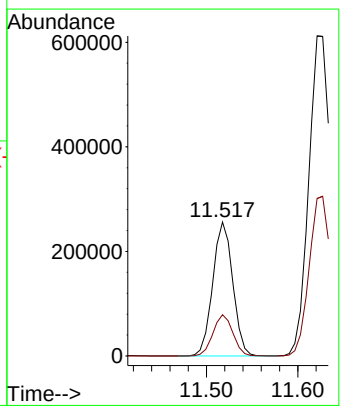


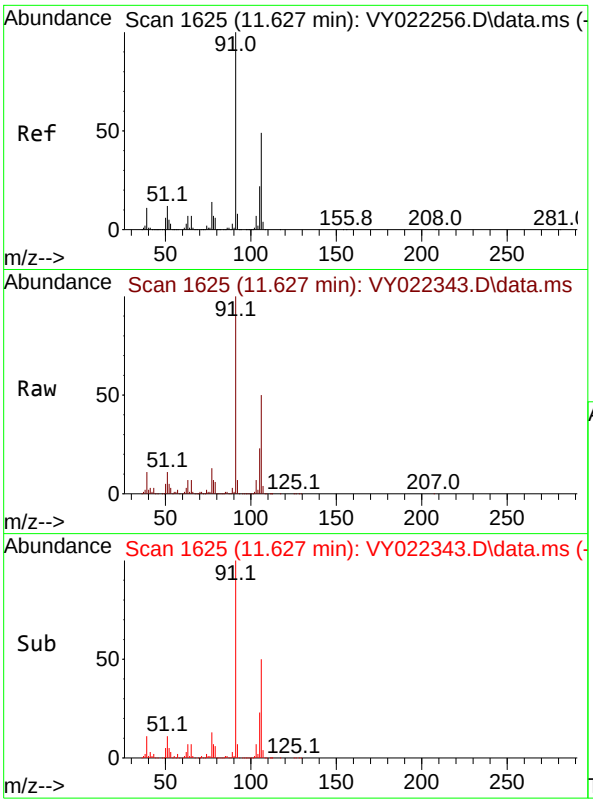




#67
Ethyl Benzene
Concen: 26.134 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

Tgt Ion: 91 Resp: 389483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.9 | 25.4 | 38.0 |



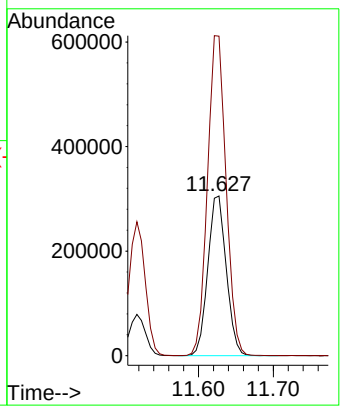


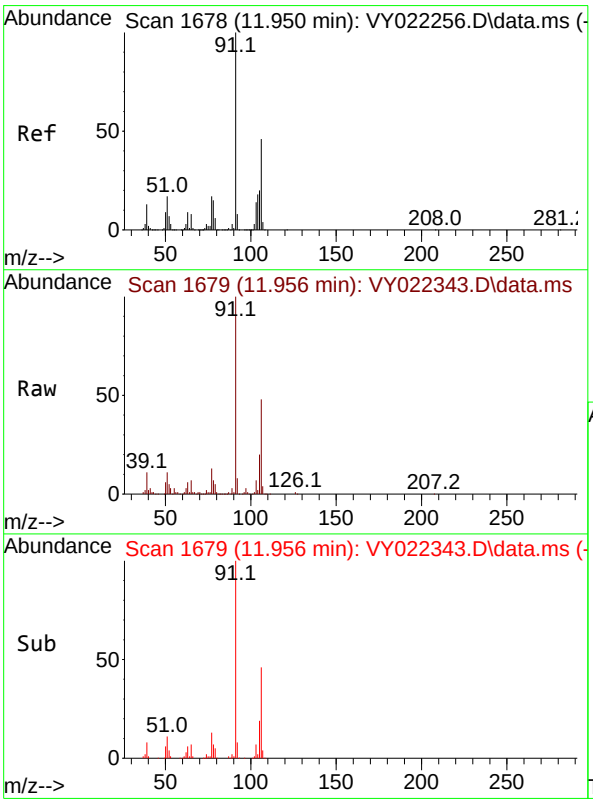

#68
m/p-Xylenes
Concen: 93.342 ug/l
RT: 11.627 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-10

Tgt Ion:106 Resp: 524191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 201.5 | 163.0 | 244.4 |

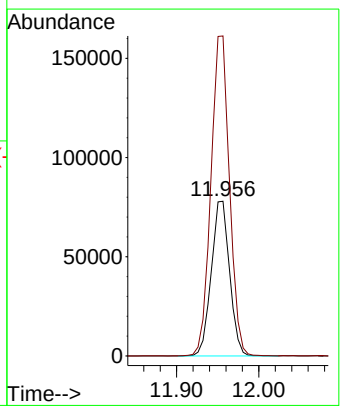


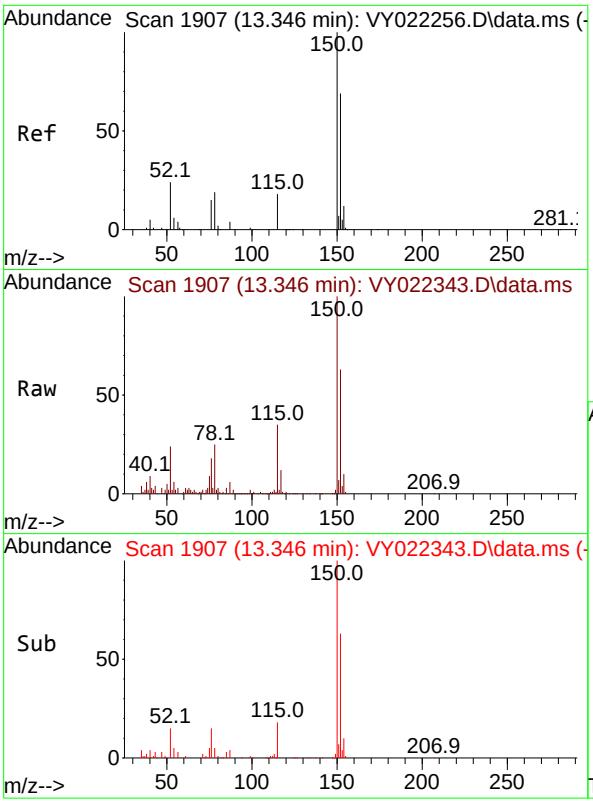




#69
o-Xylene
Concen: 22.688 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. 0.006 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

Tgt Ion:106 Resp: 120547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.9 | 108.3 | 324.8 |



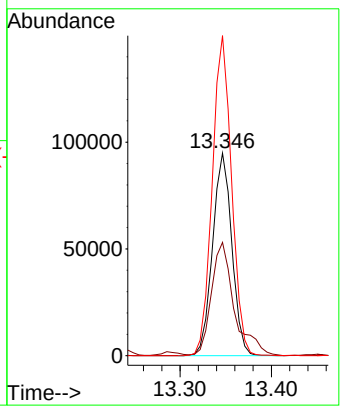


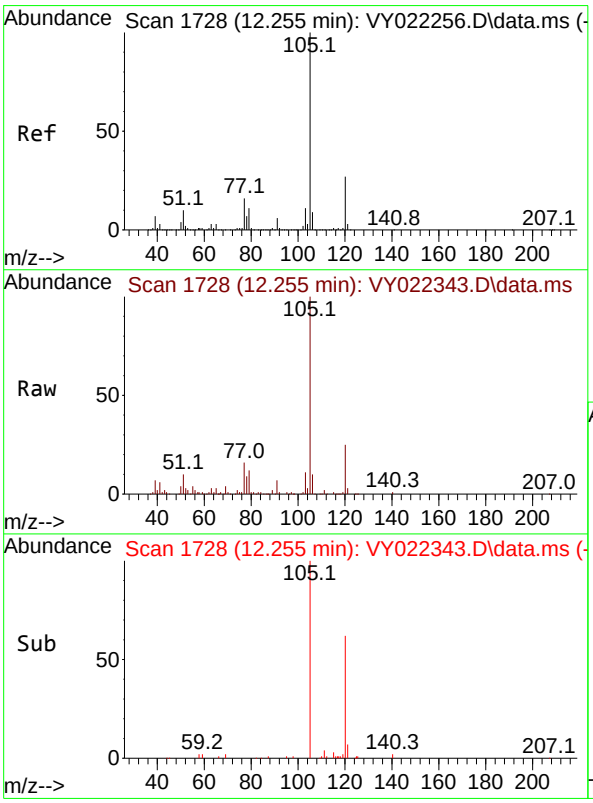

#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-10

Tgt Ion:152 Resp: 138928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 66.2 | 29.4 | 88.2 |
| 150 | 158.3 | 0.0 | 353.8 |

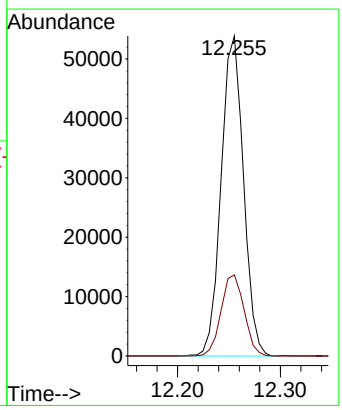


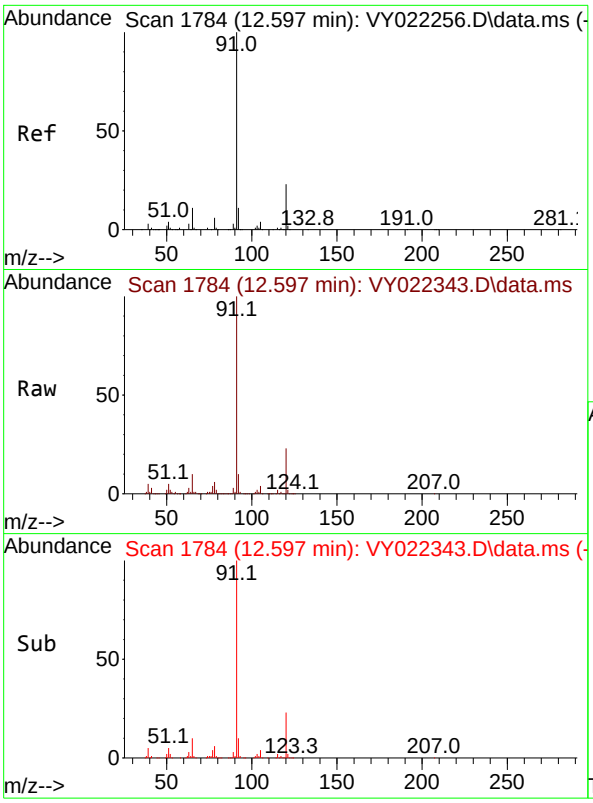




#73
Isopropylbenzene
Concen: 7.055 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

Tgt Ion:105 Resp: 81195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.2 | 39.6 |



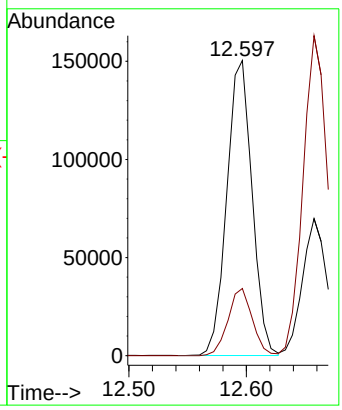


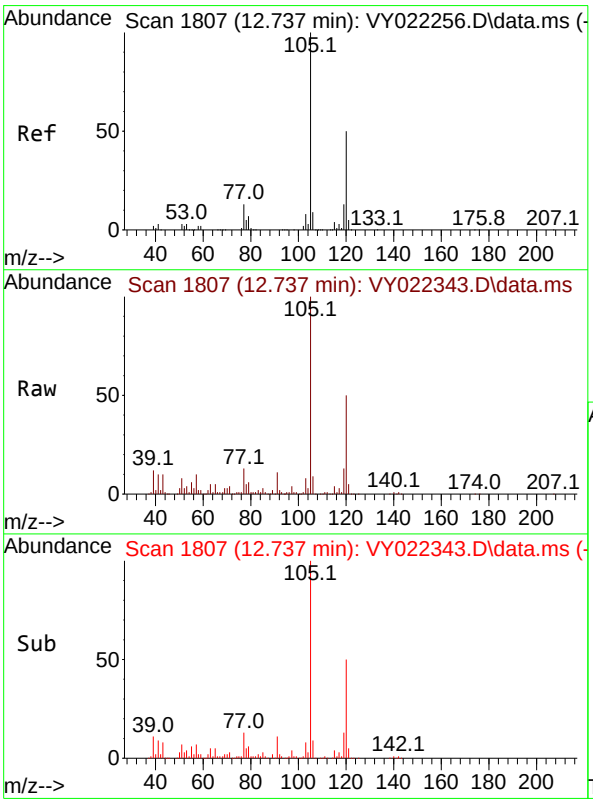

#78
n-propylbenzene
Concen: 16.182 ug/l
RT: 12.597 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-10

Tgt Ion: 91 Resp: 224654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.0 | 11.1 | 33.3 |

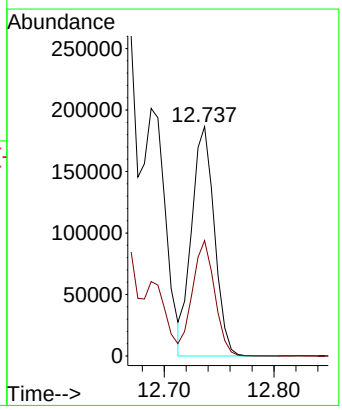


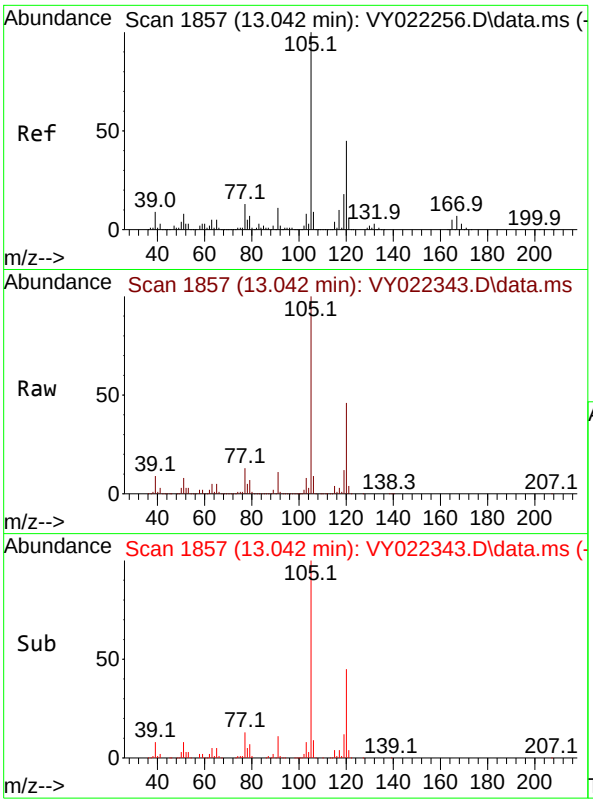




#80
1,3,5-Trimethylbenzene
Concen: 28.923 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

Tgt Ion:105 Resp: 268724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.4 | 24.2 | 72.6 |



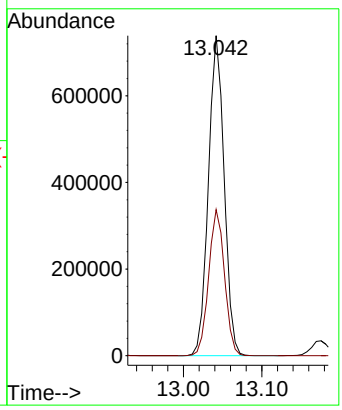


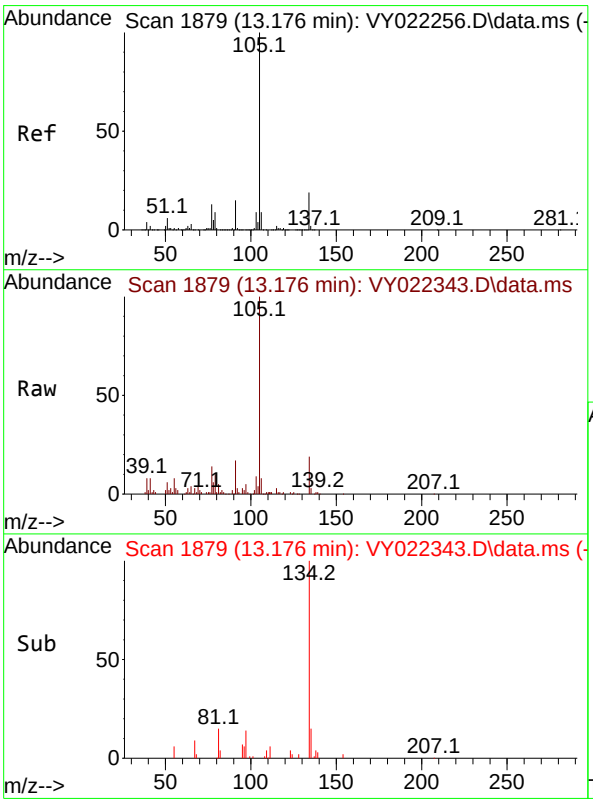

#84
1,2,4-Trimethylbenzene
Concen: 111.599 ug/l
RT: 13.042 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-10

Tgt Ion:105 Resp: 1029267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.9 | 22.3 | 66.9 |

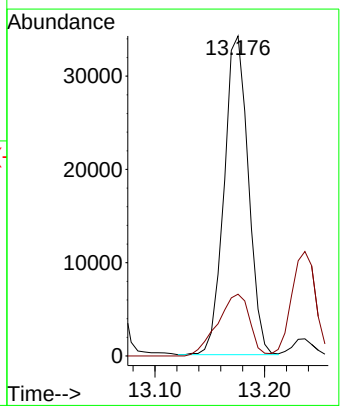


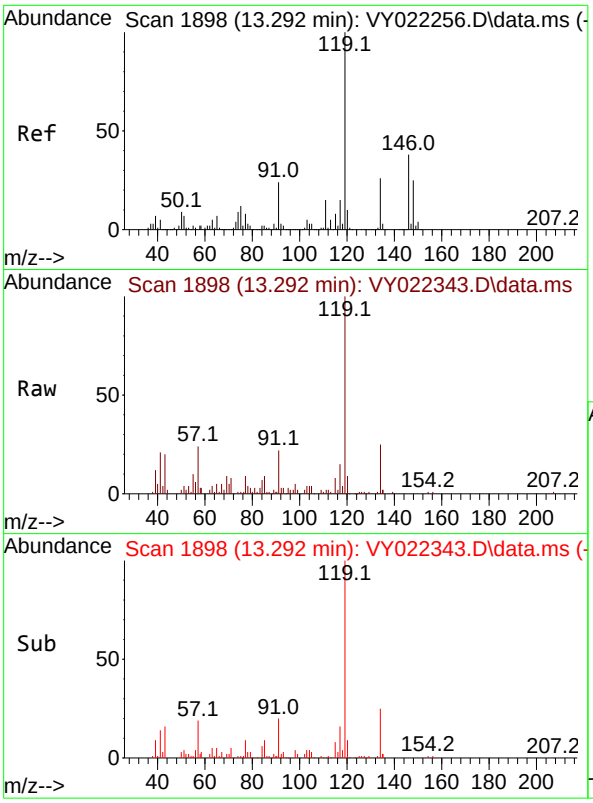




#85
sec-Butylbenzene
Concen: 4.277 ug/l
RT: 13.176 min Scan# 1879
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

Tgt Ion:105 Resp: 52433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 25.7 | 9.8 | 29.5 |



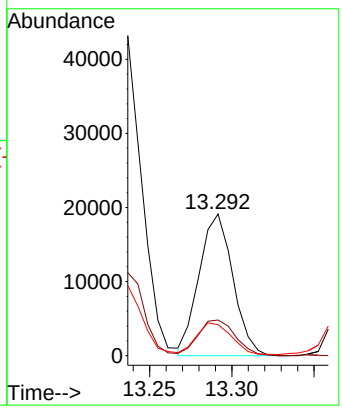


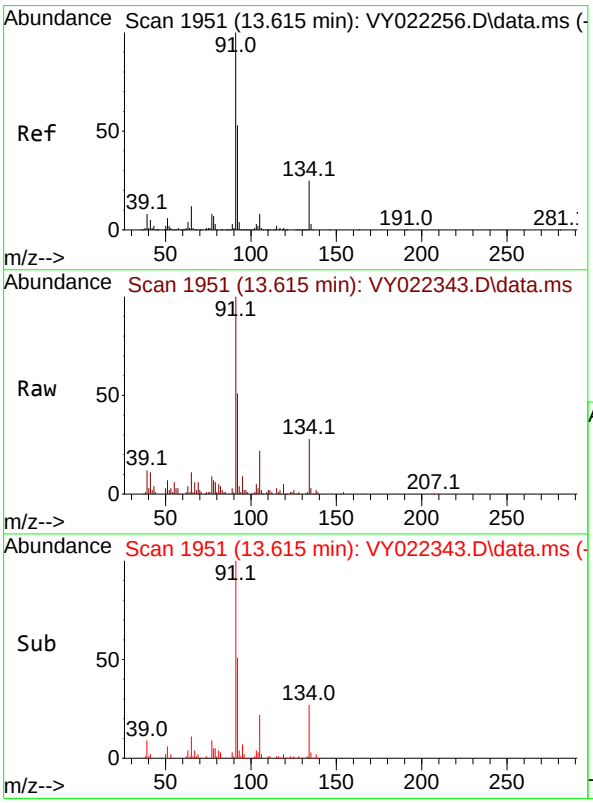

#86
p-Isopropyltoluene
Concen: 2.657 ug/l
RT: 13.292 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-10

Tgt Ion:119 Resp: 27391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 27.7 | 12.9 | 38.6 |
| 91 | 22.9 | 12.1 | 36.3 |

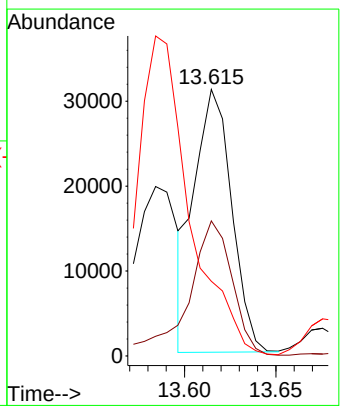



#89
n-Butylbenzene
Concen: 4.528 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. -0.000 min
Lab File: VY022343.D
Acq: 20 May 2025 15:22

Tgt Ion: 91 Resp: 44165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.4 | 26.3 | 78.9 |
| 134 | 0.0 | 12.4 | 37.4# |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 05/15/25 |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | 05/16/25 |
| Client Sample ID: | SS-910 | SDG No.: | Q2075 |
| Lab Sample ID: | Q2075-02 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 81.3 |
| Sample Wt/Vol: | 8.02 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022344.D | 1 | | 05/20/25 15:45 | VY052025 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 3.80 | U | 0.61 | 3.80 | ug/Kg |
| 108-88-3 | Toluene | 3.80 | U | 0.60 | 3.80 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 5.40 | | 0.51 | 3.80 | ug/Kg |
| 1330-20-7 | Total Xylenes | 26.5 | | 1.58 | 11.5 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.10 | J | 0.60 | 3.80 | ug/Kg |
| 103-65-1 | n-propylbenzene | 5.00 | | 0.56 | 3.80 | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | 9.10 | | 0.63 | 3.80 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 3.80 | U | 0.51 | 3.80 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 32.9 | | 0.49 | 3.80 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 1.50 | J | 0.51 | 3.80 | ug/Kg |
| 99-87-6 | p-Isopropyltoluene | 0.99 | J | 0.48 | 3.80 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 1.70 | J | 1.10 | 3.80 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 48.7 | | 63 - 155 | 97% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.6 | | 70 - 134 | 99% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.7 | | 74 - 123 | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 39.8 | | 38 - 136 | 80% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 242000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 431000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 344000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 127000 | 13.347 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022344.D
Acq On : 20 May 2025 15:45
Operator : SY/MD
Sample : Q2075-02
Misc : 8.02g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-910

Quant Time: May 21 01:50:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

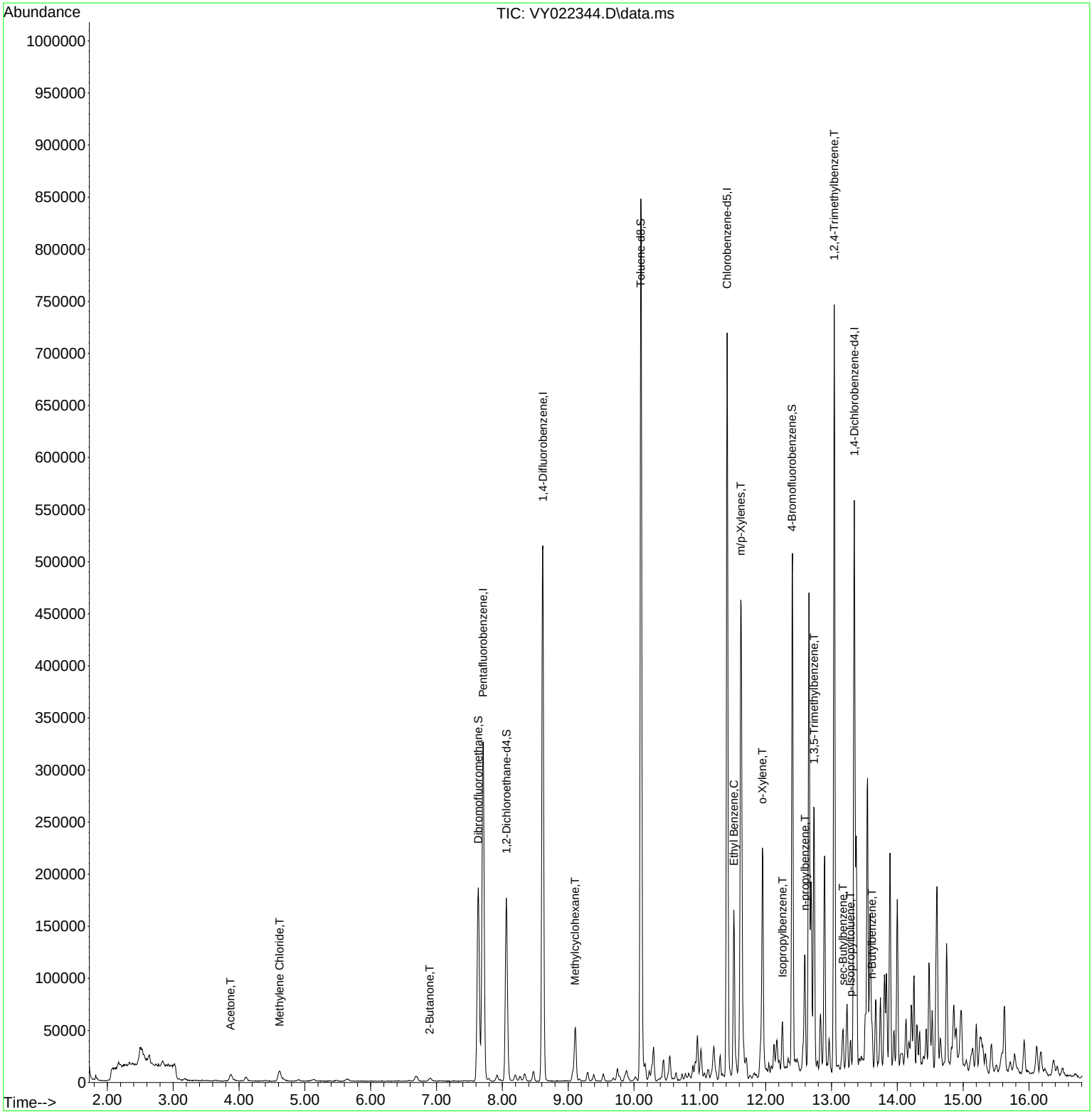
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 241551 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 430984 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 344445 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 126954 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 128674 | 48.742 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 97.480% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 127466 | 49.552 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 99.100% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 512727 | 48.668 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 97.340% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 133041 | 39.841 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 79.680% | | | |
| Target Compounds | | | | | | | Qvalue |
| 16) Acetone | 3.873 | 43 | 11631 | 23.497 | ug/l | | 92 |
| 20) Methylene Chloride | 4.616 | 84 | 6624 | 2.071 | ug/l | # | 81 |
| 25) 2-Butanone | 6.896 | 43 | 4548 | 5.493 | ug/l | | 99 |
| 39) Methylcyclohexane | 9.103 | 83 | 21570 | 3.789 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.518 | 91 | 102927 | 7.072 | ug/l | | 95 |
| 68) m/p-Xylenes | 11.621 | 106 | 133393 | 24.324 | ug/l | | 97 |
| 69) o-Xylene | 11.950 | 106 | 53096 | 10.233 | ug/l | | 97 |
| 73) Isopropylbenzene | 12.255 | 105 | 28275 | 2.688 | ug/l | | 100 |
| 78) n-propylbenzene | 12.597 | 91 | 83294 | 6.566 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 100815 | 11.874 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 361565 | 42.901 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.176 | 105 | 22583 | 2.016 | ug/l | | 87 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 12154 | 1.290 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 19377 | 2.174 | ug/l | # | 80 |

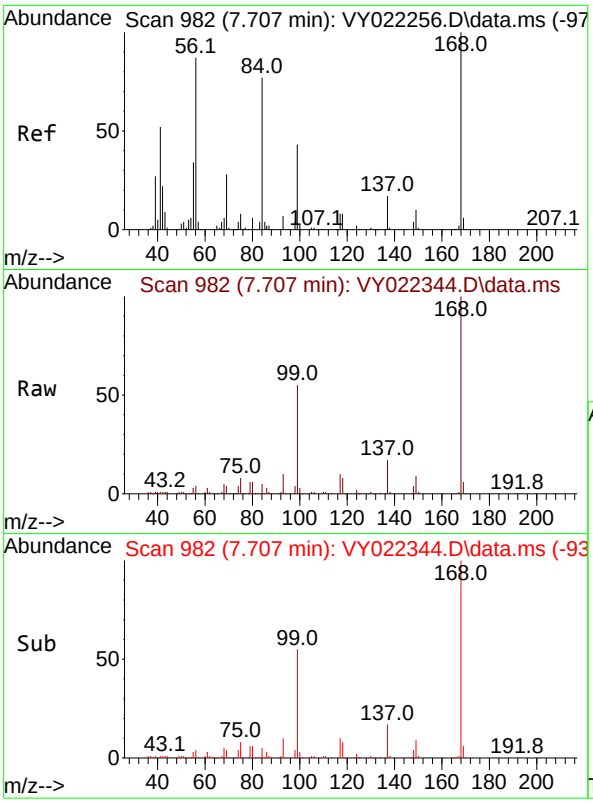
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022344.D
Acq On : 20 May 2025 15:45
Operator : SY/MD
Sample : Q2075-02
Misc : 8.02g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-910

Quant Time: May 21 01:50:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



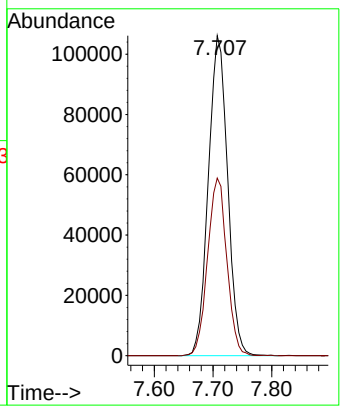


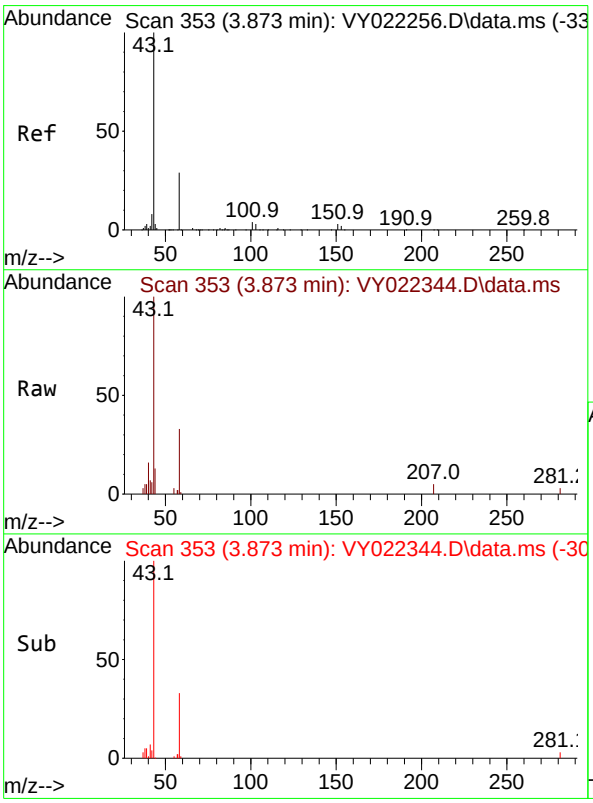

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-910

Tgt Ion:168 Resp: 241551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.5 | 44.2 | 66.4 |

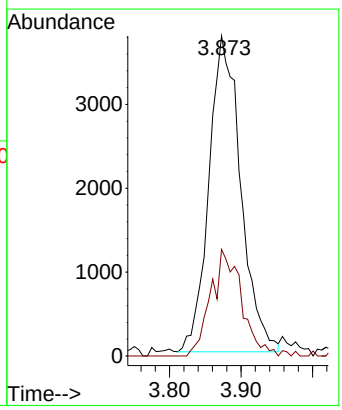


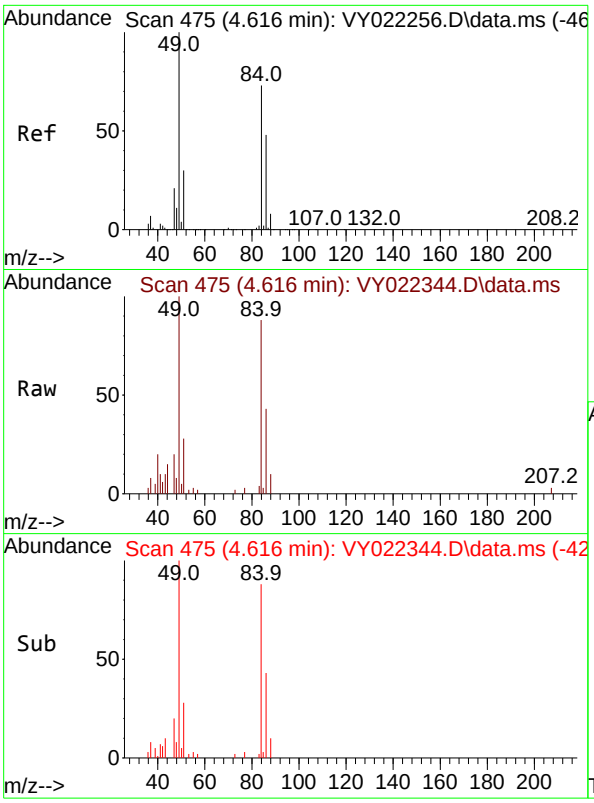




#16
Acetone
Concen: 23.497 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion: 43 Resp: 11631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.8 | 23.6 | 35.4 |



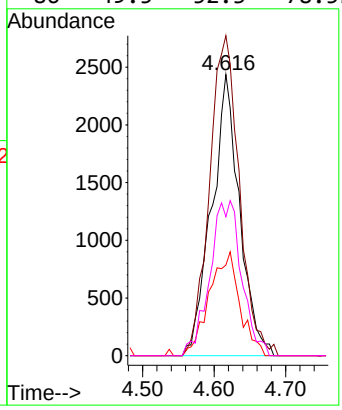


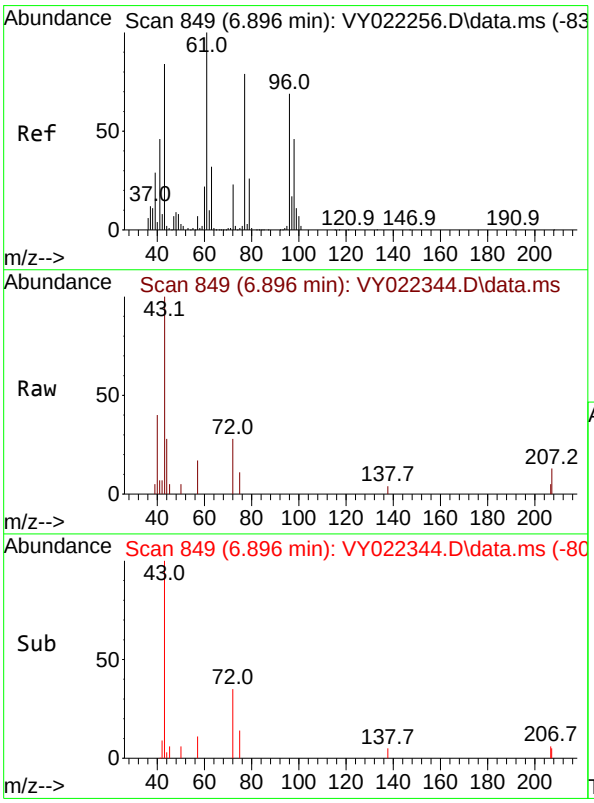

#20
Methylene Chloride
Concen: 2.071 ug/l
RT: 4.616 min Scan# 4
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-910

Tgt Ion: 84 Resp: 6624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 113.8 | 109.6 | 164.4 |
| 51 | 32.2 | 32.4 | 48.6# |
| 86 | 49.5 | 52.3 | 78.5# |

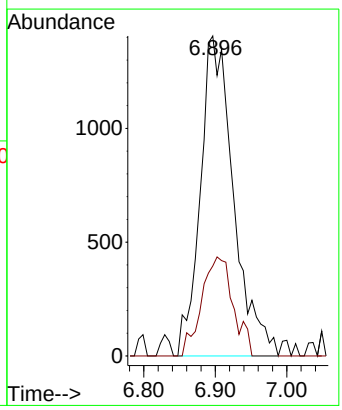


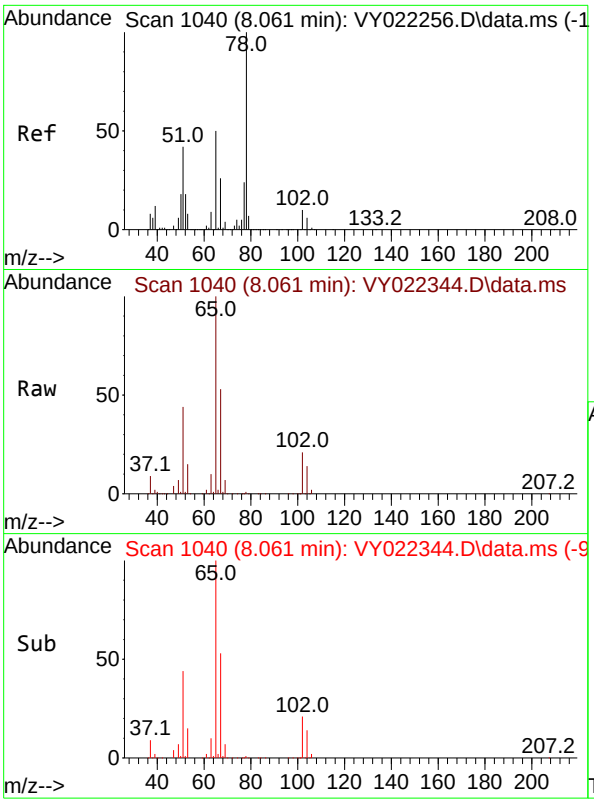




#25
2-Butanone
Concen: 5.493 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion: 43 Resp: 4548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.1 | 22.1 | 33.1 |



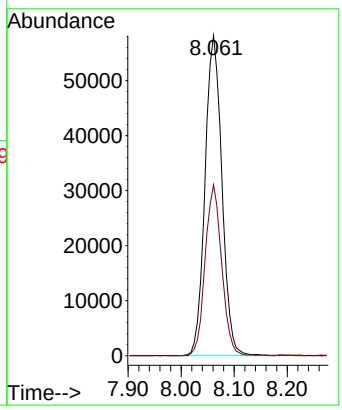


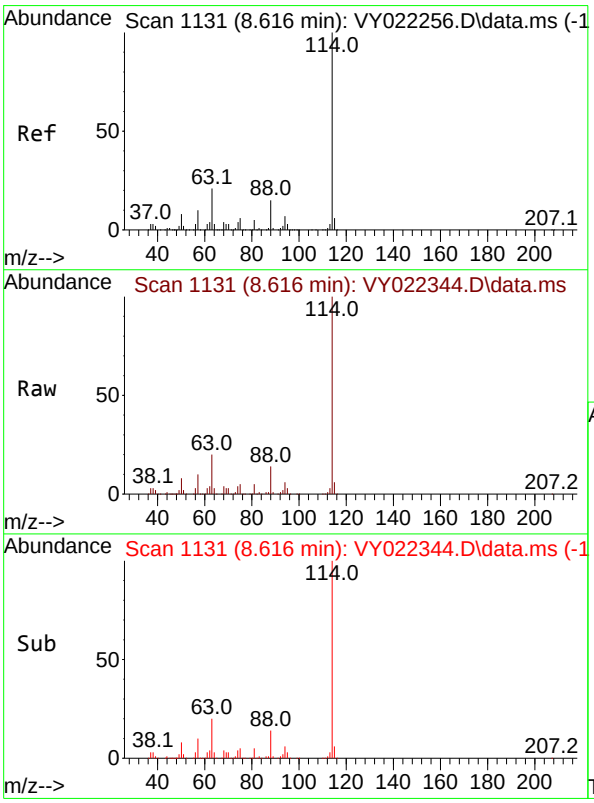

#33
1,2-Dichloroethane-d4
Concen: 48.742 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-910

Tgt Ion: 65 Resp: 128674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.2 | 0.0 | 104.6 |

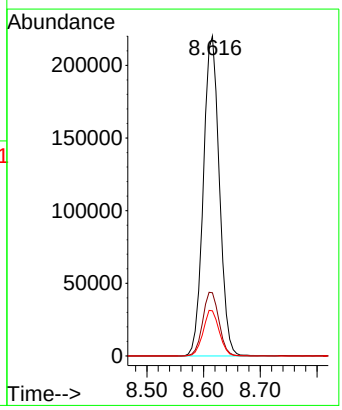


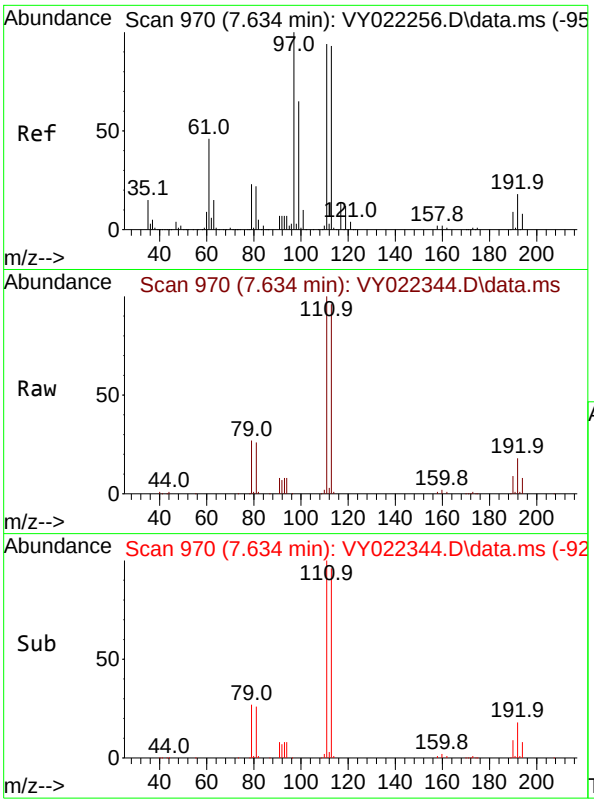




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion:114 Resp: 430984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.7 | 0.0 | 41.0 |
| 88 | 14.1 | 0.0 | 29.4 |



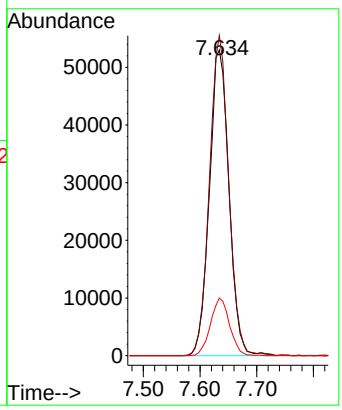


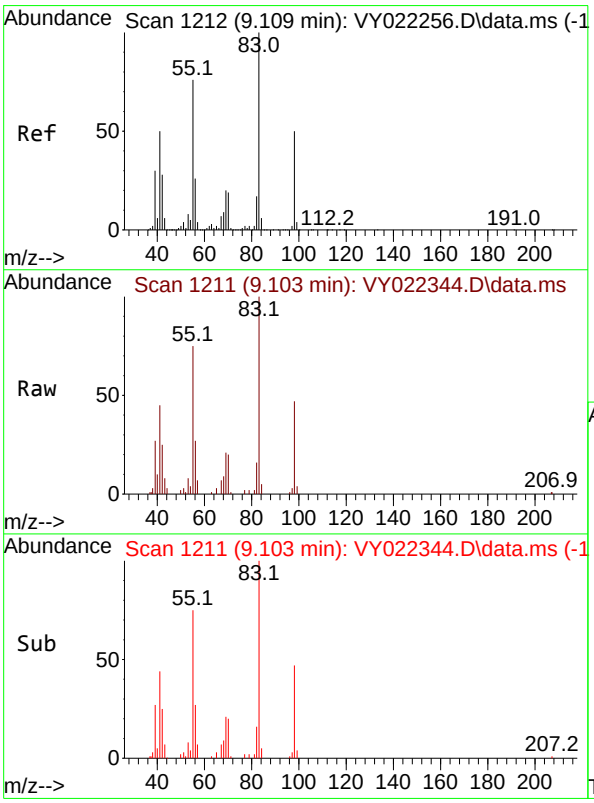

#35
Dibromofluoromethane
Concen: 49.552 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-910

Tgt Ion:113 Resp: 127466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.9 | 82.6 | 123.8 |
| 192 | 18.4 | 15.2 | 22.8 |

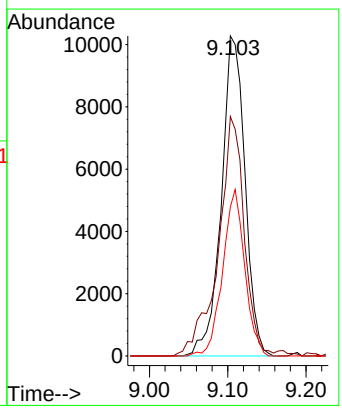


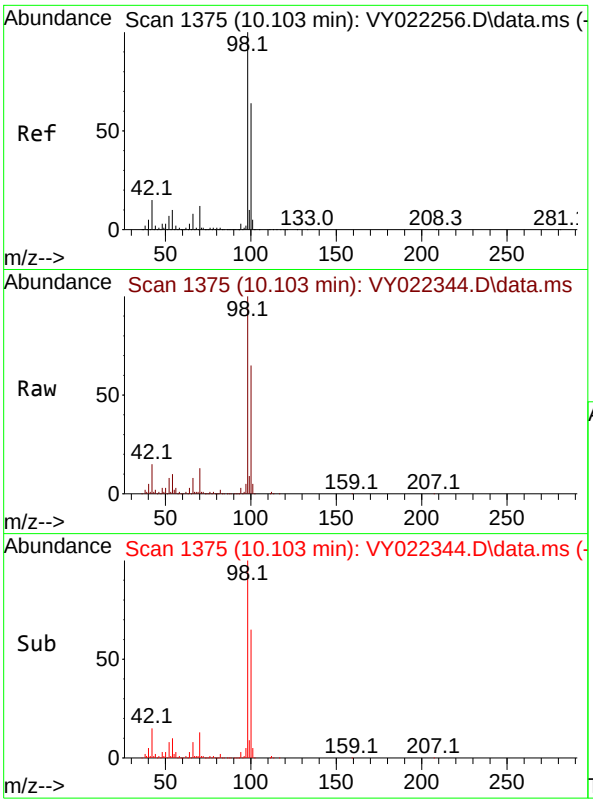




#39
Methylcyclohexane
Concen: 3.789 ug/l
RT: 9.103 min Scan# 1211
Delta R.T. -0.006 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion: 83 Resp: 21570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 74.0 | 60.6 | 90.8 |
| 98 | 46.6 | 40.0 | 60.0 |



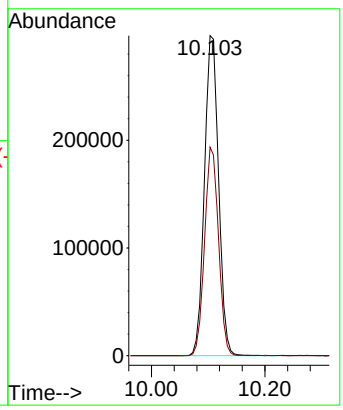


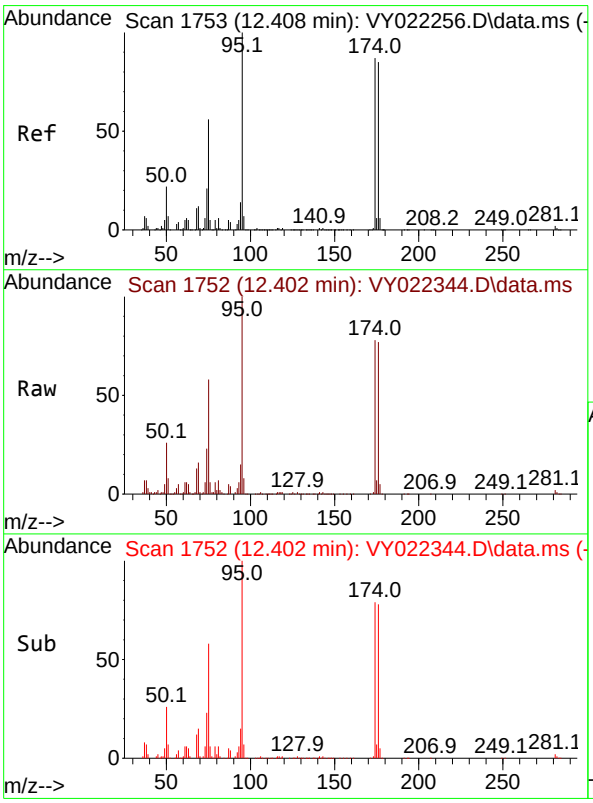

#50
Toluene-d8
Concen: 48.668 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-910

Tgt Ion: 98 Resp: 512727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.3 | 51.8 | 77.8 |

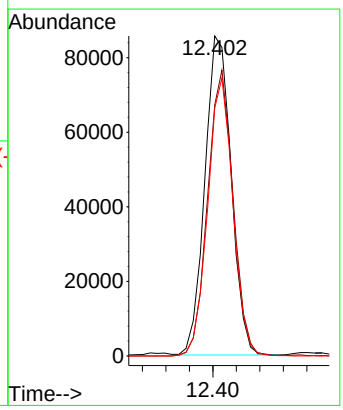


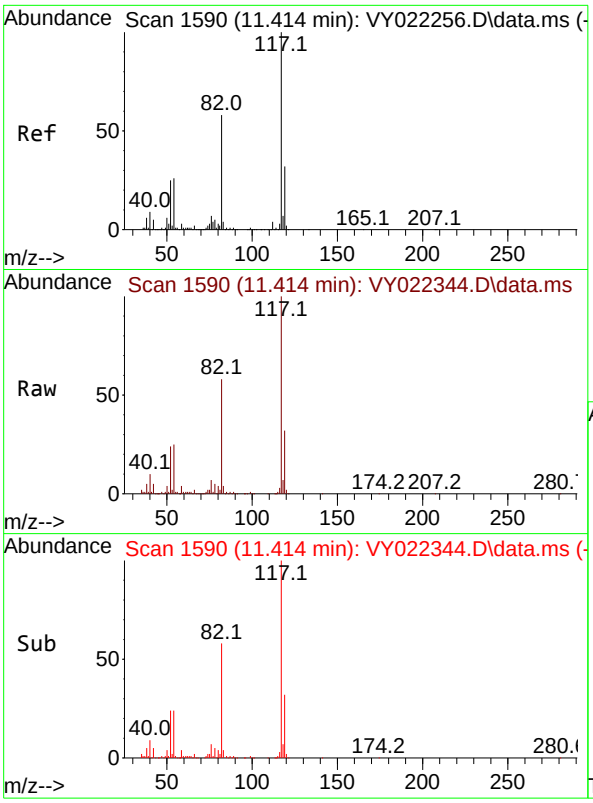




#62
4-Bromofluorobenzene
Concen: 39.841 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion: 95 Resp: 133041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.7 | 0.0 | 166.8 |
| 176 | 83.5 | 0.0 | 160.8 |



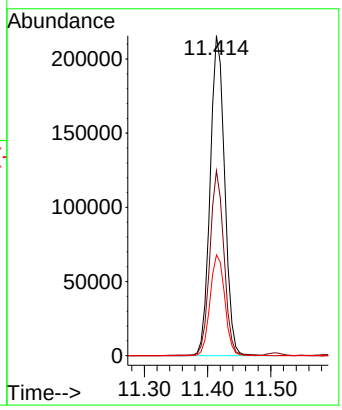


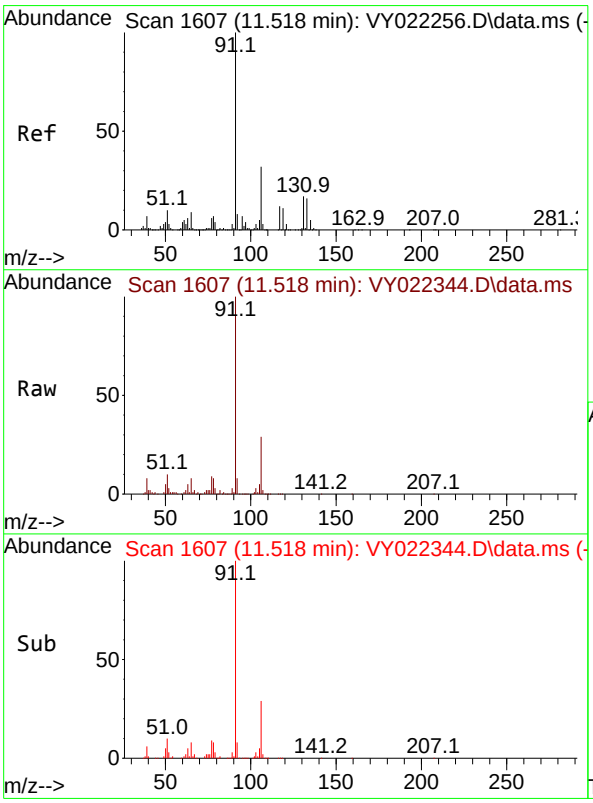

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-910

Tgt Ion:117 Resp: 344445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.6 | 46.6 | 70.0 |
| 119 | 31.5 | 25.8 | 38.6 |

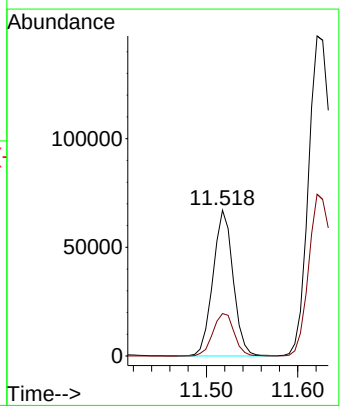


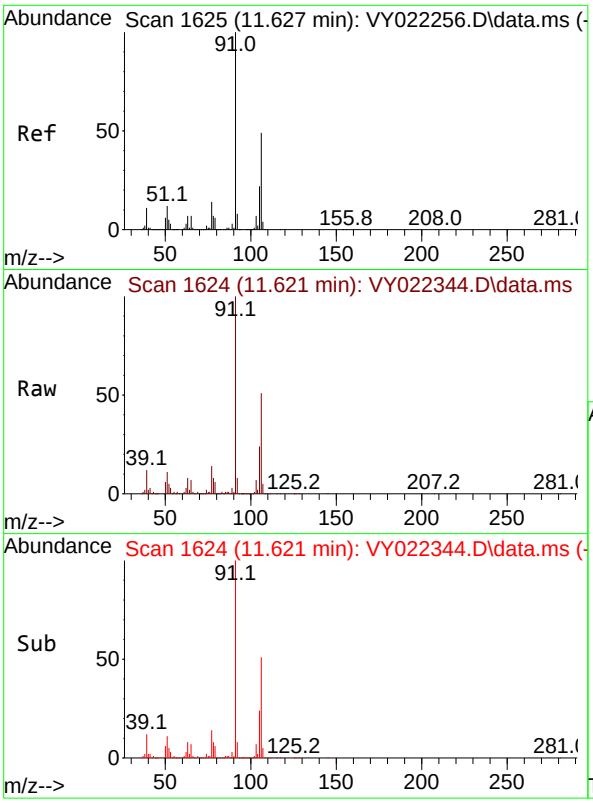




#67
Ethyl Benzene
Concen: 7.072 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion: 91 Resp: 102927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.1 | 25.4 | 38.0 |



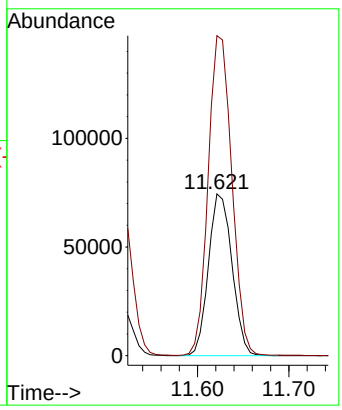


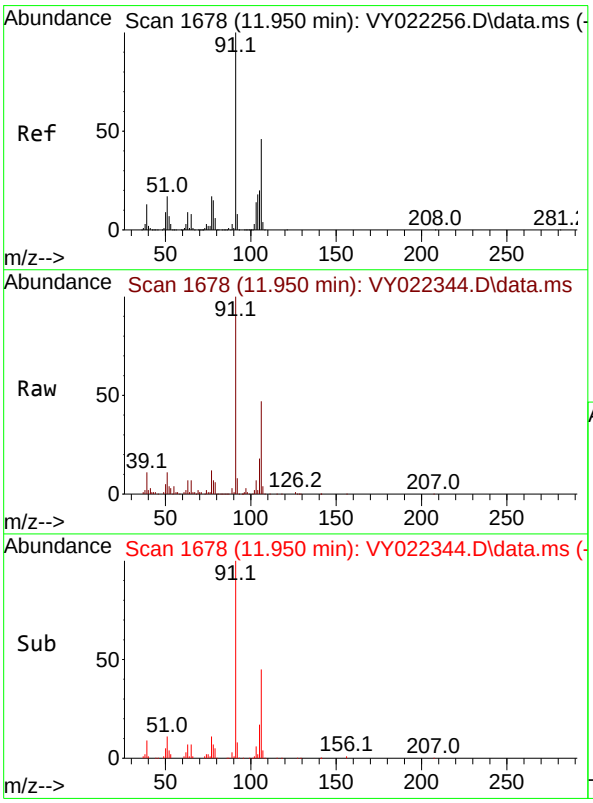

#68
m/p-Xylenes
Concen: 24.324 ug/l
RT: 11.621 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-910

Tgt Ion:106 Resp: 133393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 199.0 | 163.0 | 244.4 |

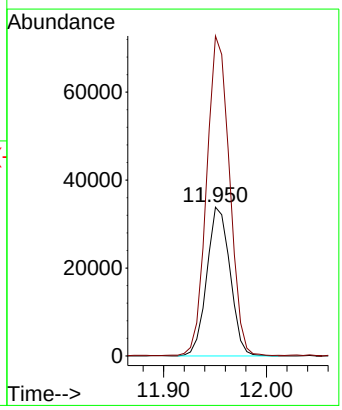


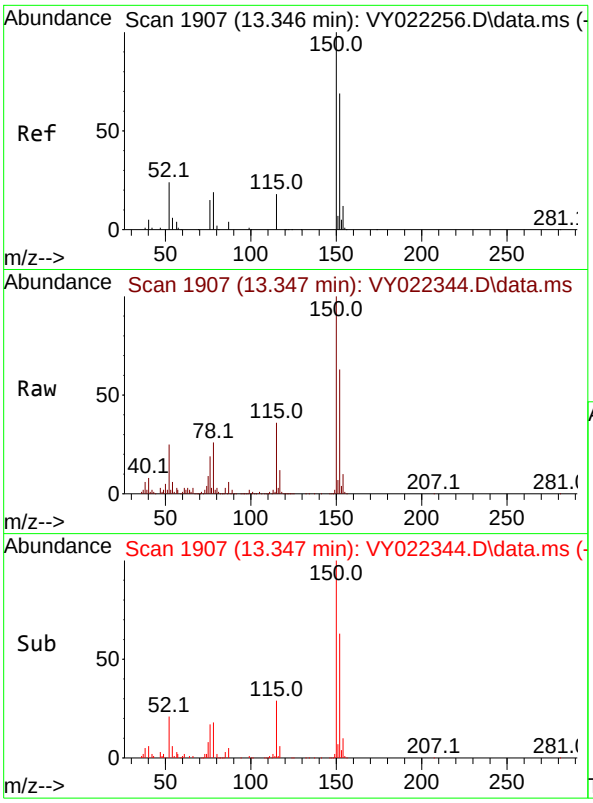




#69
o-Xylene
Concen: 10.233 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion:106 Resp: 53096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 212.1 | 108.3 | 324.8 |



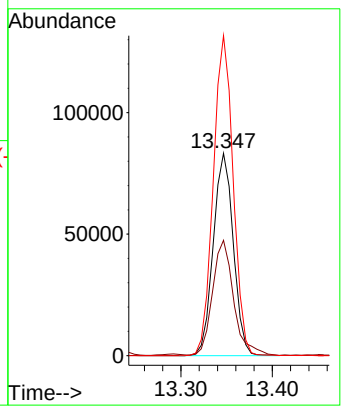


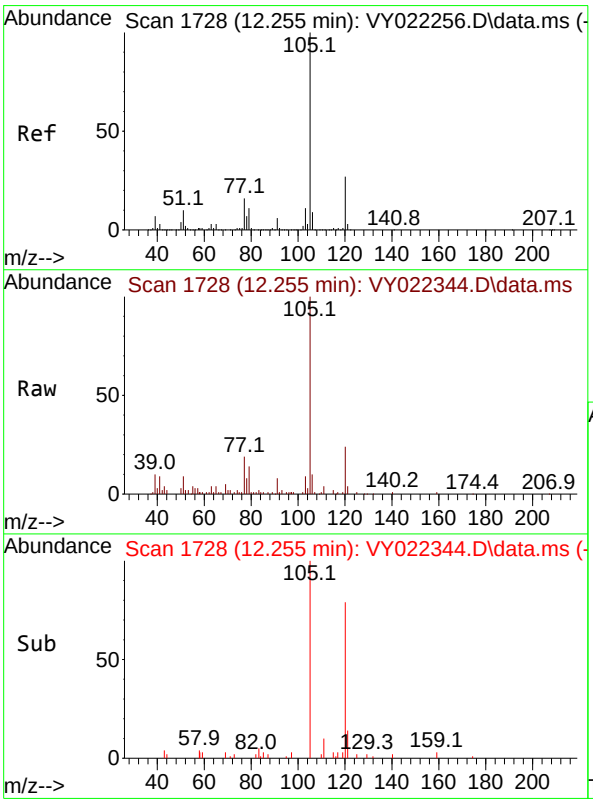

#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-910

Tgt Ion:152 Resp: 126954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.9 | 29.4 | 88.2 |
| 150 | 156.6 | 0.0 | 353.8 |

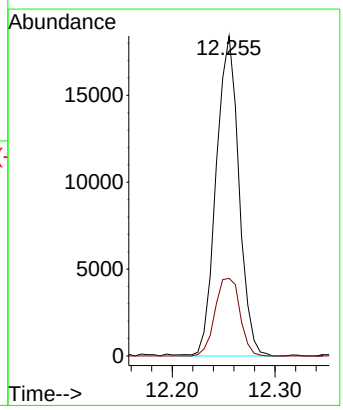


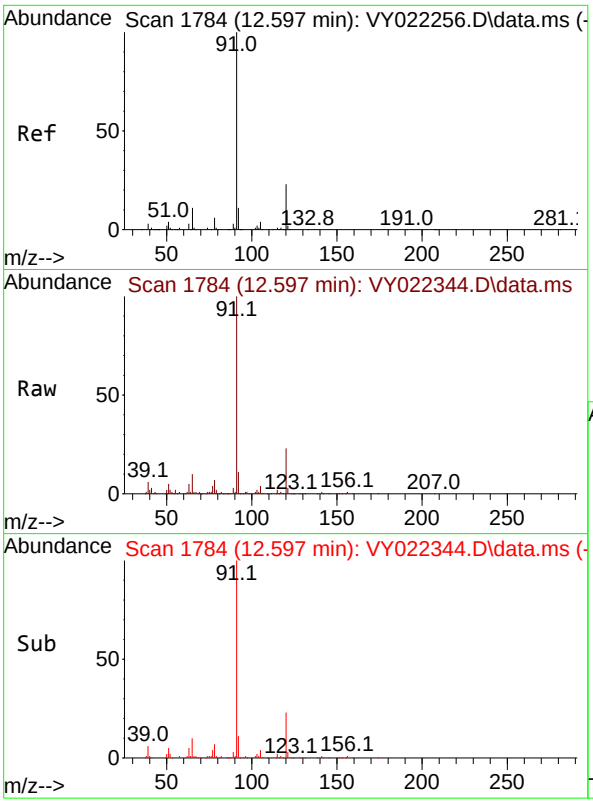




#73
Isopropylbenzene
Concen: 2.688 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion:105 Resp: 28275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.5 | 13.2 | 39.6 |



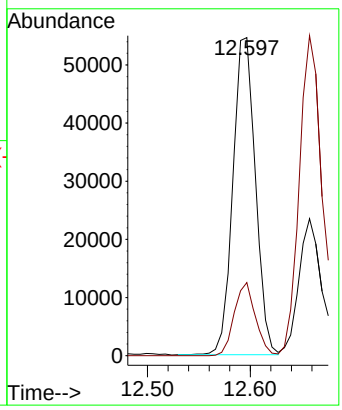


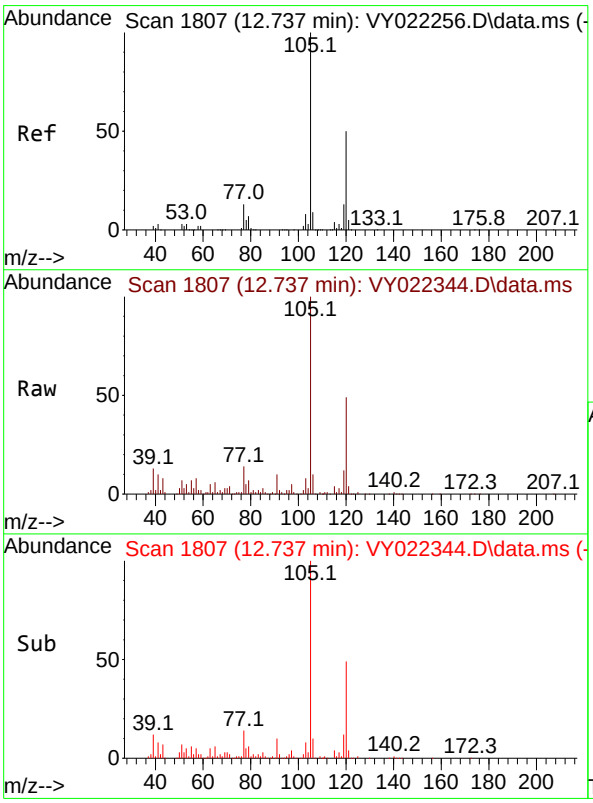

#78
n-propylbenzene
Concen: 6.566 ug/l
RT: 12.597 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-910

Tgt Ion: 91 Resp: 83294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.8 | 11.1 | 33.3 |

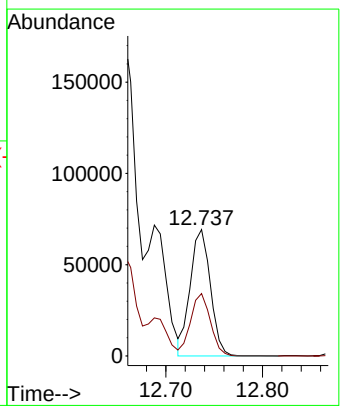


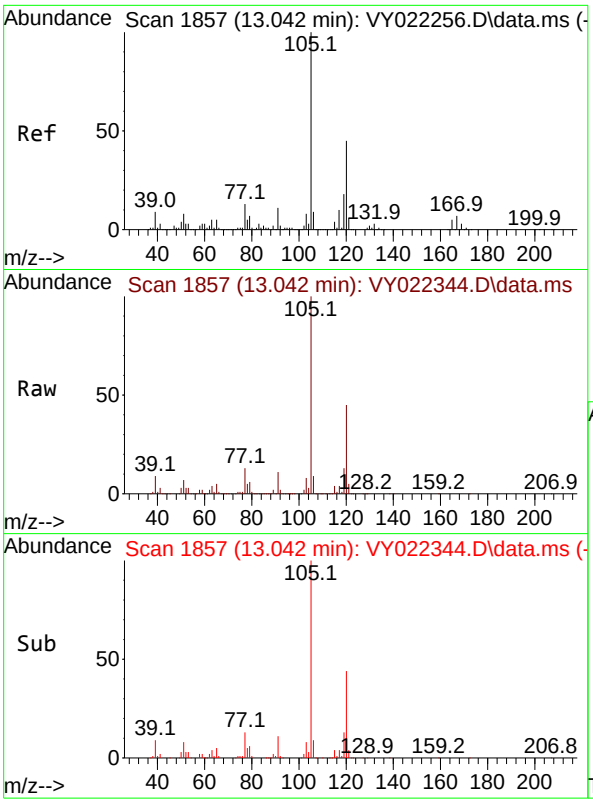




#80
1,3,5-Trimethylbenzene
Concen: 11.874 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion:105 Resp: 100815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.4 | 24.2 | 72.6 |



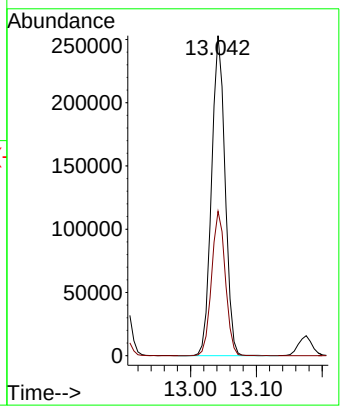


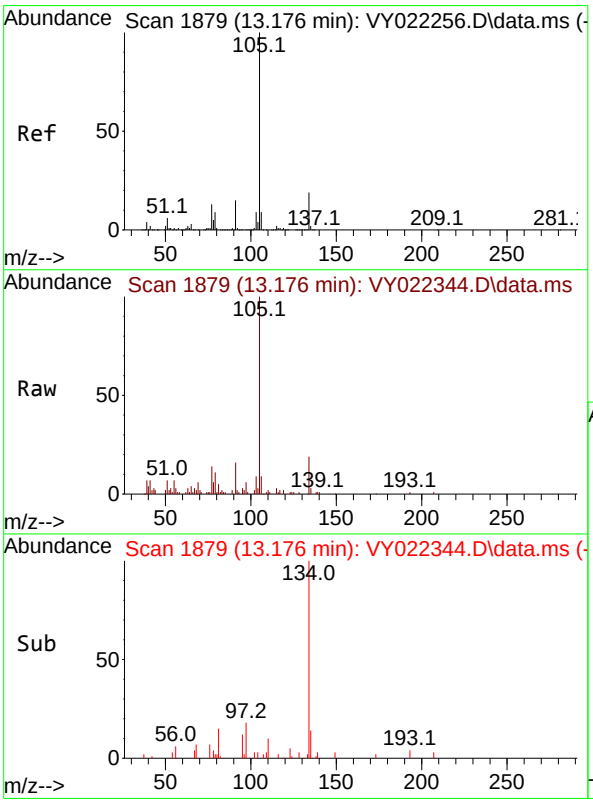

#84
1,2,4-Trimethylbenzene
Concen: 42.901 ug/l
RT: 13.042 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-910

Tgt Ion:105 Resp: 361565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.7 | 22.3 | 66.9 |

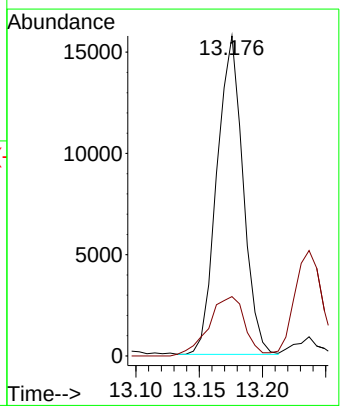


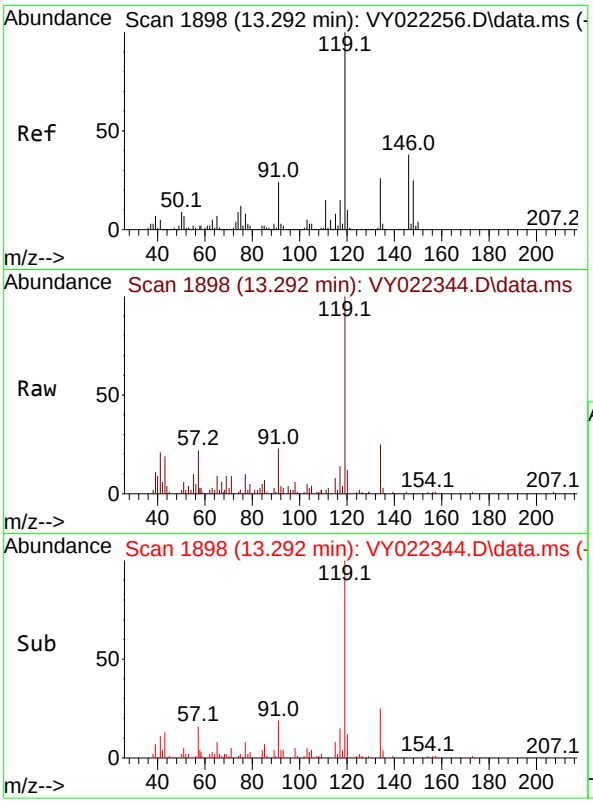




#85
sec-Butylbenzene
Concen: 2.016 ug/l
RT: 13.176 min Scan# 1879
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion:105 Resp: 22583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 25.5 | 9.8 | 29.5 |



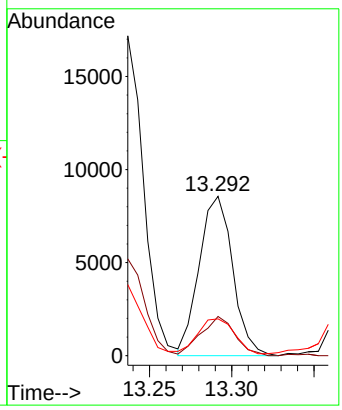


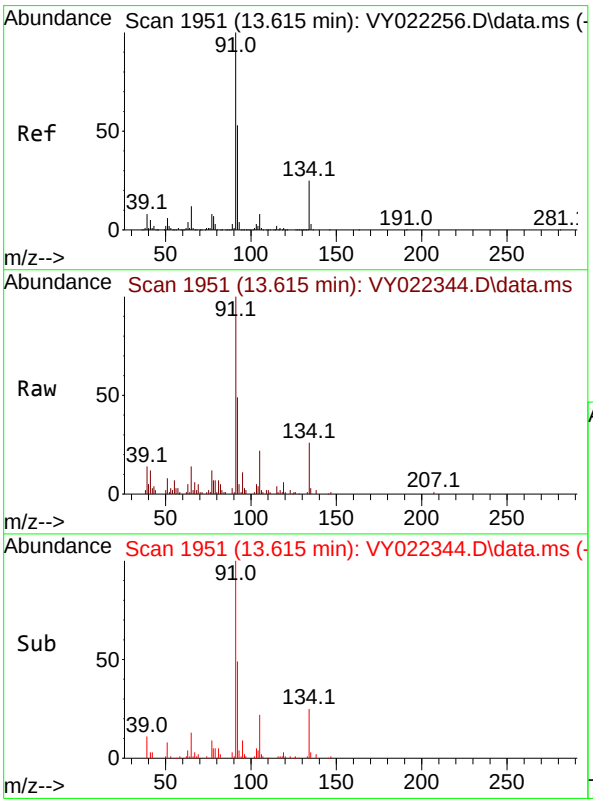

#86
p-Isopropyltoluene
Concen: 1.290 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-910

Tgt Ion:119 Resp: 12154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.9 | 12.9 | 38.6 |
| 91 | 23.6 | 12.1 | 36.3 |

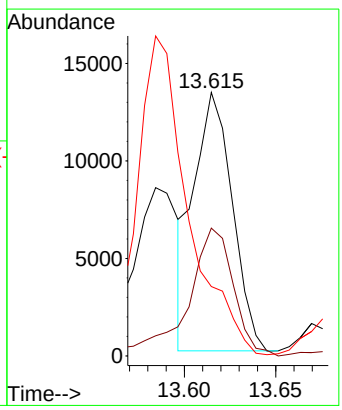



#89
n-Butylbenzene
Concen: 2.174 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VY022344.D
Acq: 20 May 2025 15:45

Tgt Ion: 91 Resp: 19377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.3 | 26.3 | 78.9 |
| 134 | 0.0 | 12.4 | 37.4# |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 05/15/25 |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | 05/16/25 |
| Client Sample ID: | SS-11 | SDG No.: | Q2075 |
| Lab Sample ID: | Q2075-03 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 87.4 |
| Sample Wt/Vol: | 5.75 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022345.D | 1 | | 05/20/25 16:09 | VY052025 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 5.00 | U | 0.79 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 5.20 | | 0.78 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 7.80 | | 0.67 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 46.3 | | 2.02 | 14.9 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.10 | J | 0.78 | 5.00 | ug/Kg |
| 103-65-1 | n-propylbenzene | 5.40 | | 0.73 | 5.00 | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | 9.80 | | 0.82 | 5.00 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 5.00 | U | 0.67 | 5.00 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 40.2 | | 0.64 | 5.00 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 1.40 | J | 0.66 | 5.00 | ug/Kg |
| 99-87-6 | p-Isopropyltoluene | 5.00 | U | 0.62 | 5.00 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 1.40 | J | 1.40 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 46.7 | | 63 - 155 | 93% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.8 | | 70 - 134 | 98% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.7 | | 74 - 123 | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 39.5 | | 38 - 136 | 79% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 240000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 433000 | 8.615 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 346000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 131000 | 13.346 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022345.D
Acq On : 20 May 2025 16:09
Operator : SY/MD
Sample : Q2075-03
Misc : 5.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11

Quant Time: May 21 01:51:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

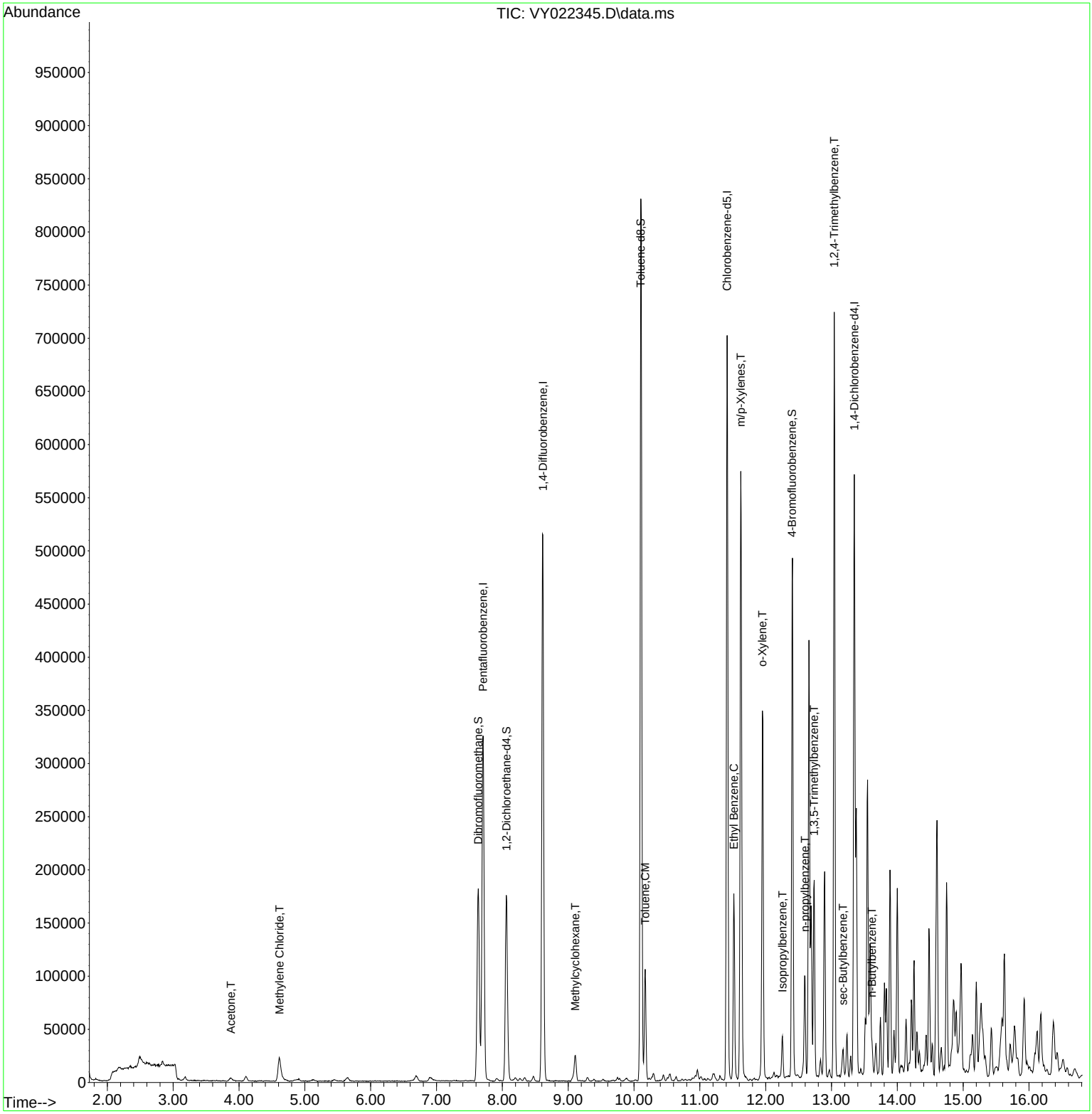
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 239791 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 432569 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 345893 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 130644 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 122461 | 46.729 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 93.460% | | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 125981 | 48.795 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 97.600% | | | | |
| 50) Toluene-d8 | 10.103 | 98 | 514605 | 48.667 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 97.340% | | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 132386 | 39.499 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 79.000% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 16) Acetone | 3.879 | 43 | 5473 | 11.138 | ug/l | # | 89 |
| 20) Methylene Chloride | 4.616 | 84 | 14696 | 4.628 | ug/l | | 94 |
| 39) Methylcyclohexane | 9.109 | 83 | 10764 | 1.884 | ug/l | | 88 |
| 52) Toluene | 10.170 | 92 | 42034 | 5.265 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.517 | 91 | 114266 | 7.819 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.621 | 106 | 163448 | 29.680 | ug/l | | 96 |
| 69) o-Xylene | 11.950 | 106 | 87953 | 16.880 | ug/l | | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 23017 | 2.127 | ug/l | | 94 |
| 78) n-propylbenzene | 12.596 | 91 | 70774 | 5.421 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 86309 | 9.879 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 350537 | 40.417 | ug/l | | 97 |
| 85) sec-Butylbenzene | 13.176 | 105 | 16558 | 1.436 | ug/l | | 87 |
| 89) n-Butylbenzene | 13.615 | 91 | 13194 | 1.439 | ug/l | # | 74 |

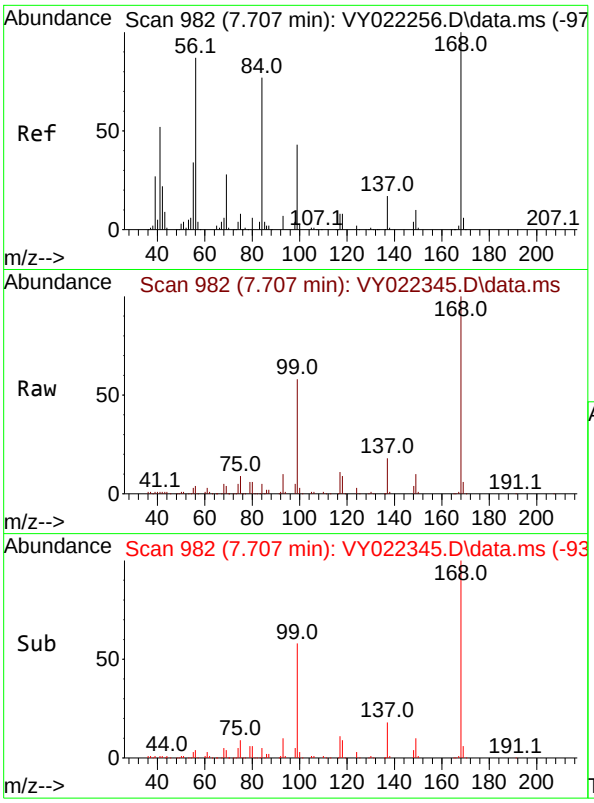
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022345.D
Acq On : 20 May 2025 16:09
Operator : SY/MD
Sample : Q2075-03
Misc : 5.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11

Quant Time: May 21 01:51:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



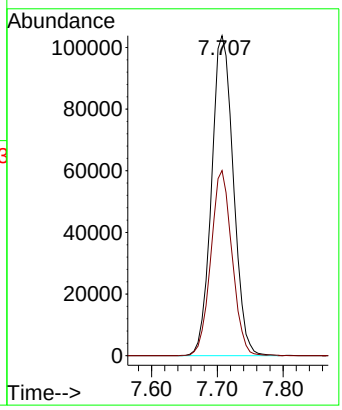


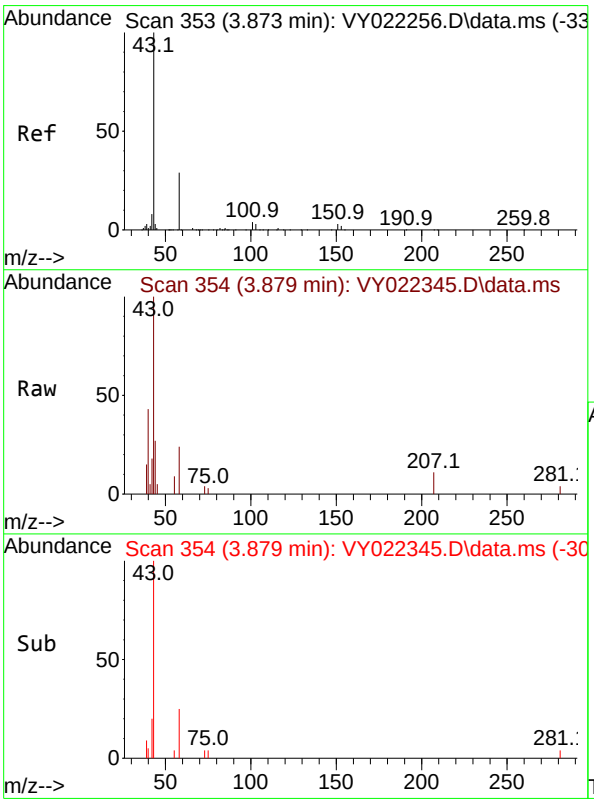

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11

Tgt Ion:168 Resp: 239791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.8 | 44.2 | 66.4 |

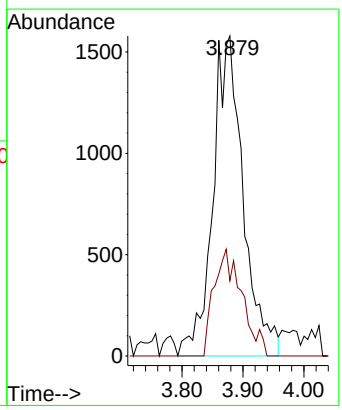


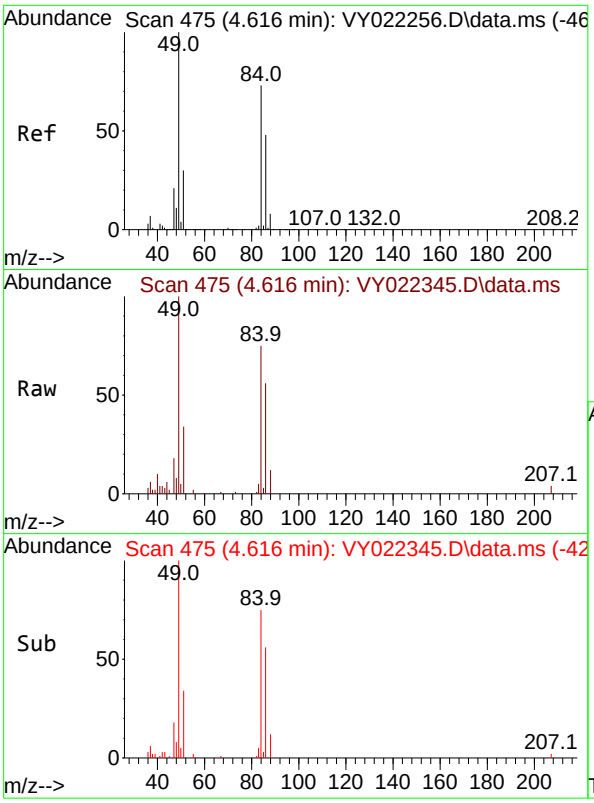




#16
Acetone
Concen: 11.138 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion: 43 Resp: 5473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 23.6 | 23.6 | 35.4# |



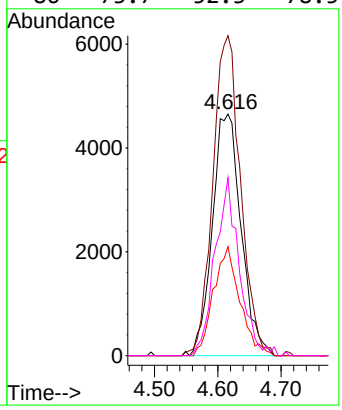


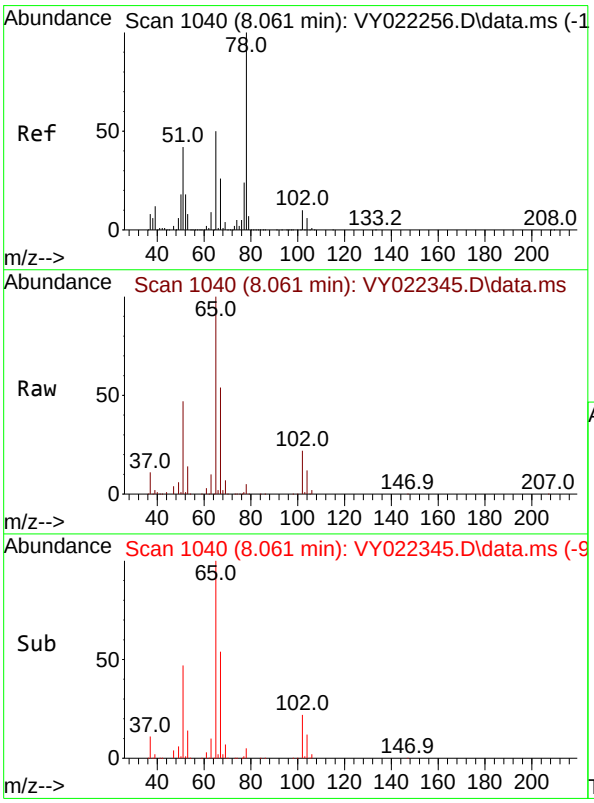

#20
Methylene Chloride
Concen: 4.628 ug/l
RT: 4.616 min Scan# 4
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11

Tgt Ion: 84 Resp: 14696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 132.5 | 109.6 | 164.4 |
| 51 | 45.1 | 32.4 | 48.6 |
| 86 | 73.7 | 52.3 | 78.5 |

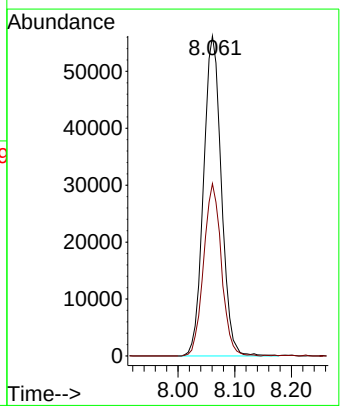


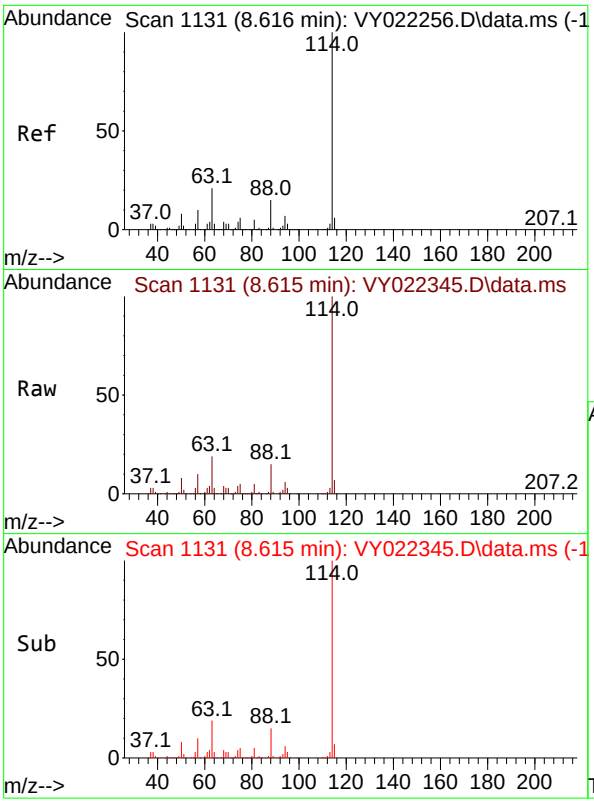




#33
1,2-Dichloroethane-d4
Concen: 46.729 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion: 65 Resp: 122461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.7 | 0.0 | 104.6 |



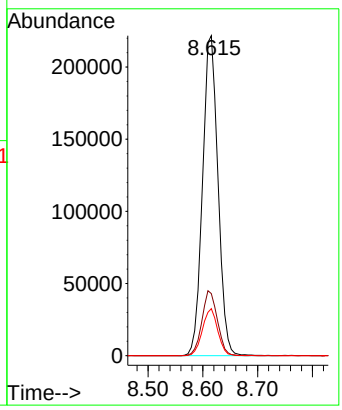


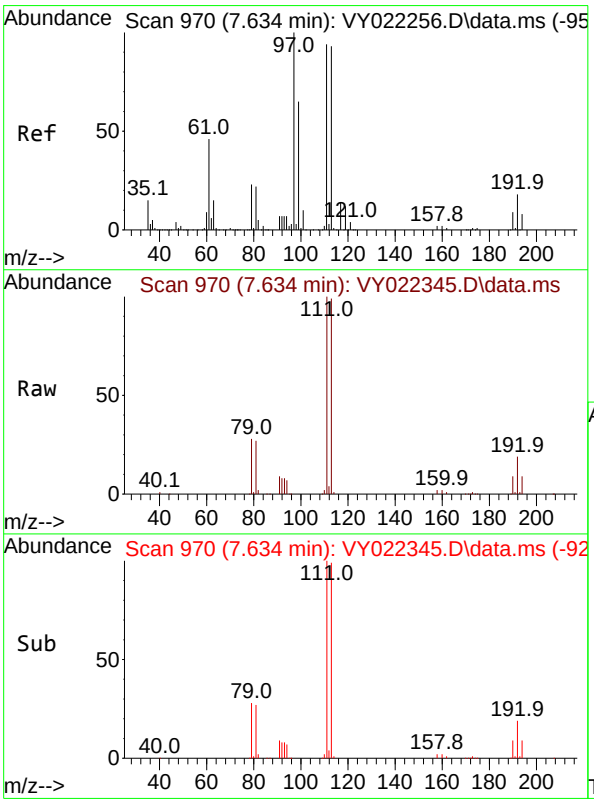

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11

Tgt Ion:114 Resp: 432569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.4 | 0.0 | 41.0 |
| 88 | 14.7 | 0.0 | 29.4 |

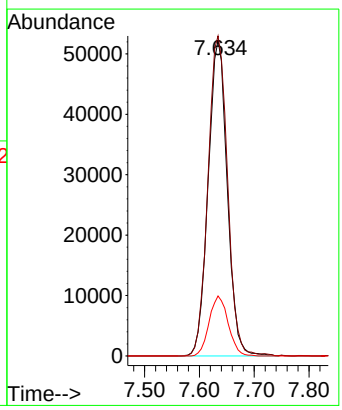


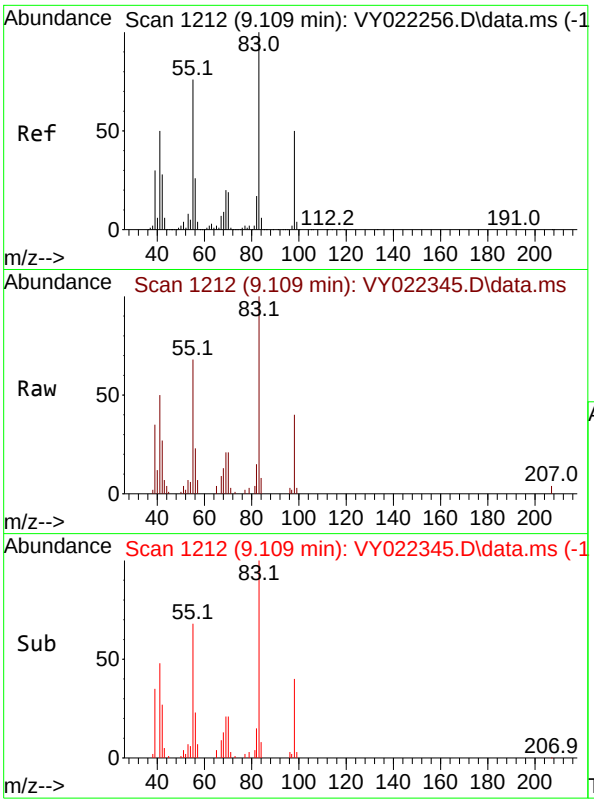




#35
Dibromofluoromethane
Concen: 48.795 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion:113 Resp: 125981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.0 | 82.6 | 123.8 |
| 192 | 19.0 | 15.2 | 22.8 |



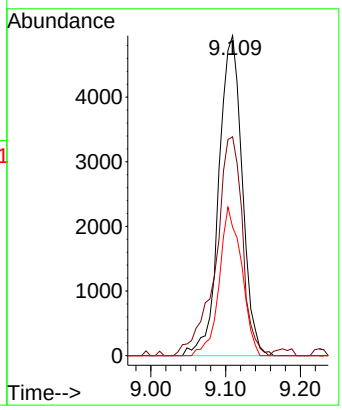


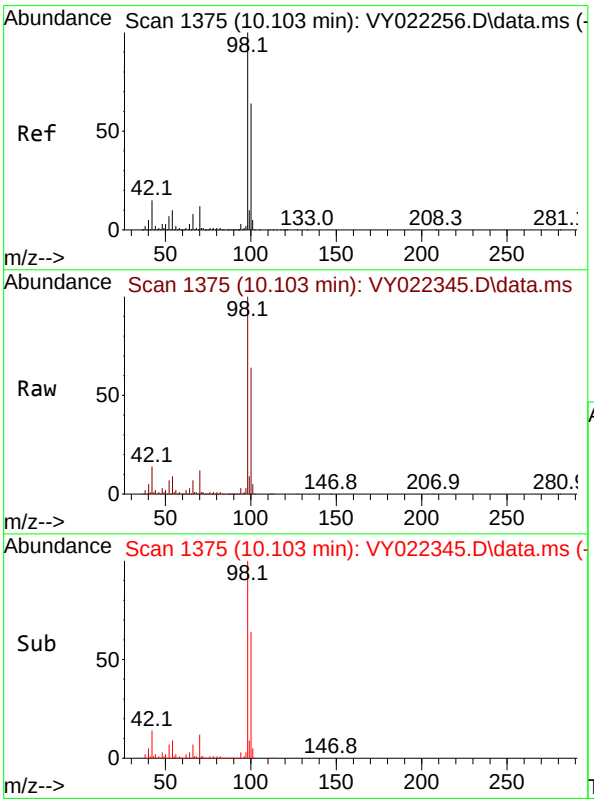

#39
Methylcyclohexane
Concen: 1.884 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11

Tgt Ion: 83 Resp: 10764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 67.3 | 60.6 | 90.8 |
| 98 | 40.1 | 40.0 | 60.0 |

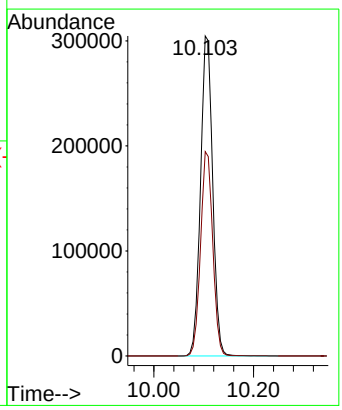


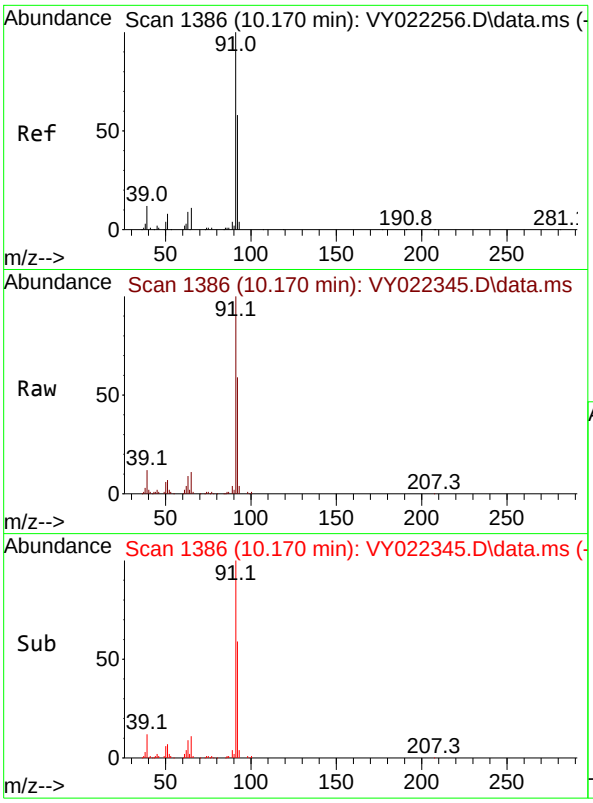




#50
Toluene-d8
Concen: 48.667 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion: 98 Resp: 514605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.1 | 51.8 | 77.8 |



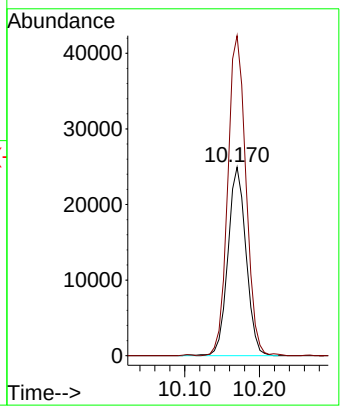


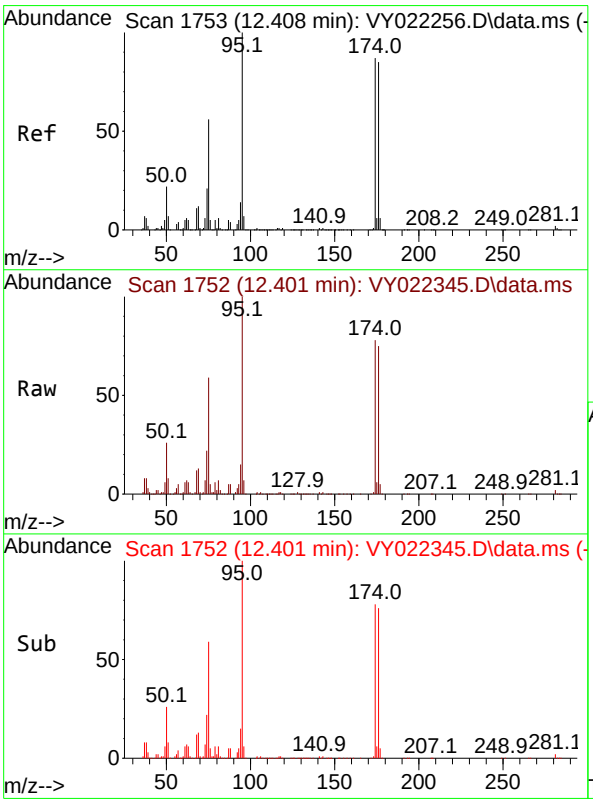

#52
Toluene
Concen: 5.265 ug/l
RT: 10.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11

Tgt Ion: 92 Resp: 42034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.5 | 139.1 | 208.7 |

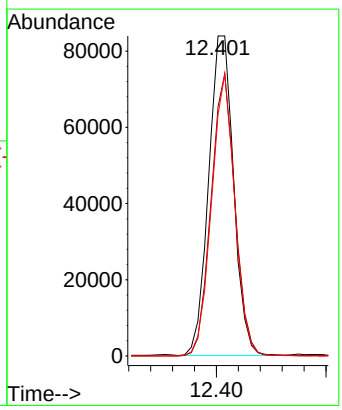


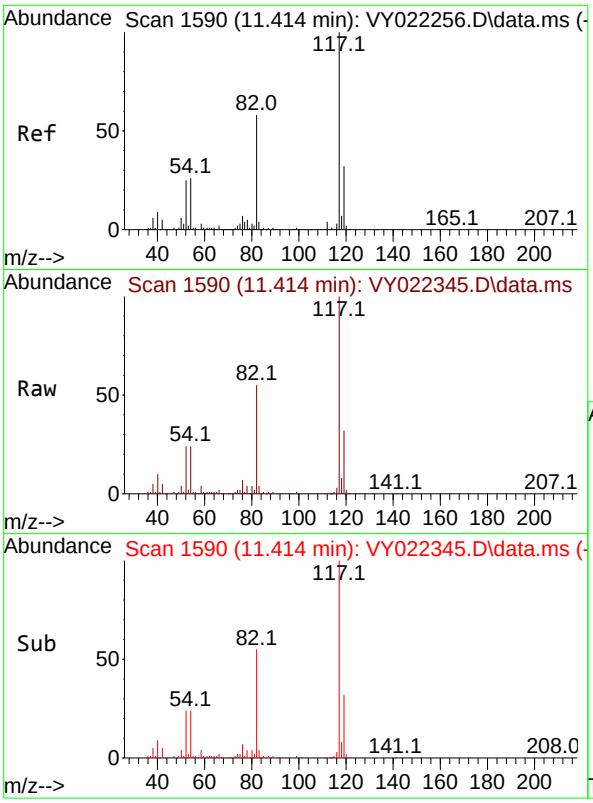




#62
4-Bromofluorobenzene
Concen: 39.499 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion: 95 Resp: 132386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.7 | 0.0 | 166.8 |
| 176 | 82.3 | 0.0 | 160.8 |



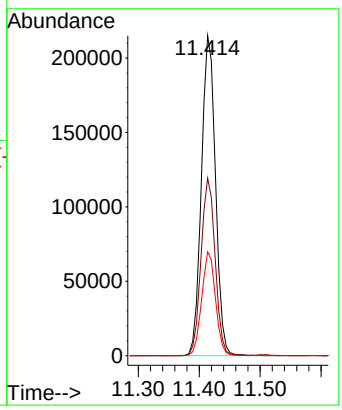


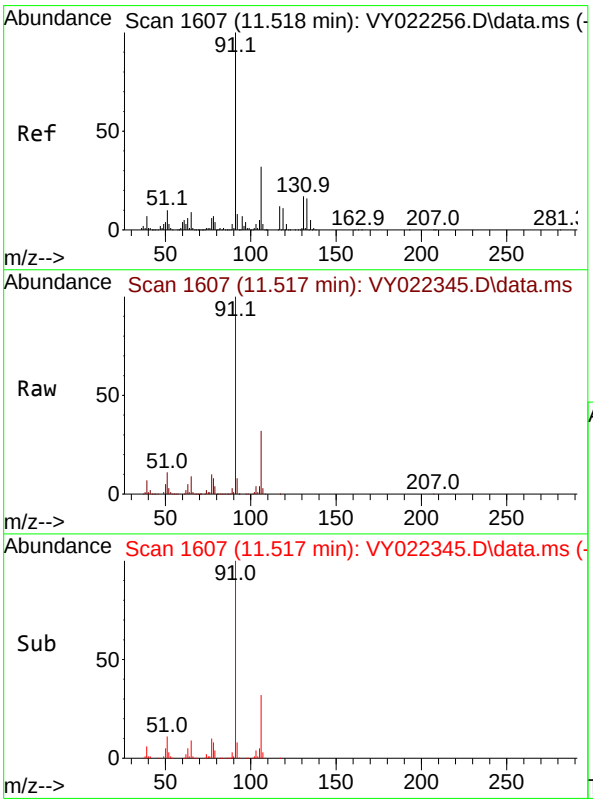

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11

Tgt Ion:117 Resp: 345893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.4 | 46.6 | 70.0 |
| 119 | 32.5 | 25.8 | 38.6 |

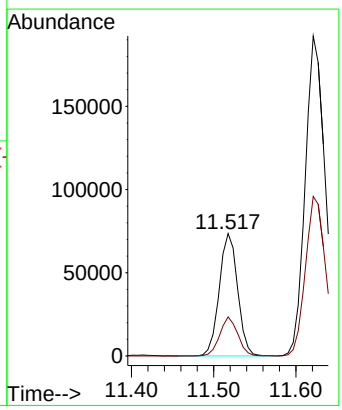


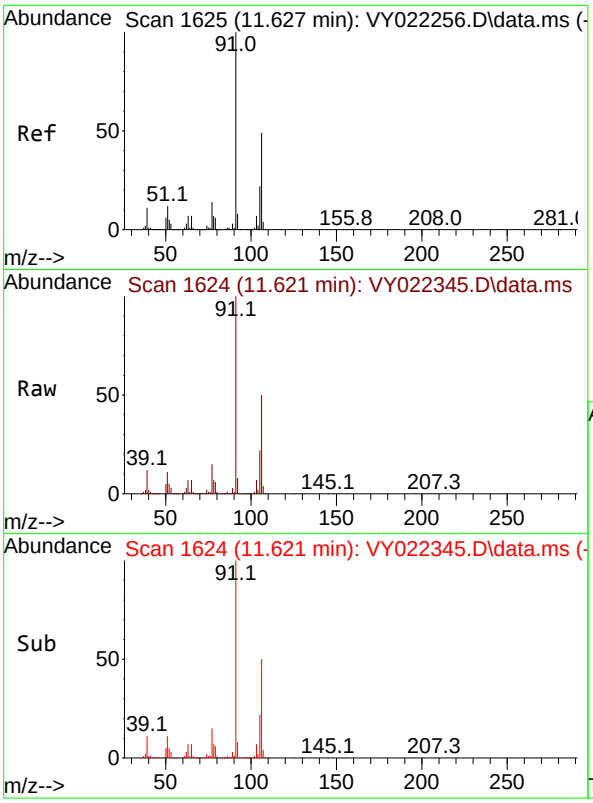




#67
Ethyl Benzene
Concen: 7.819 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion: 91 Resp: 114266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.9 | 25.4 | 38.0 |



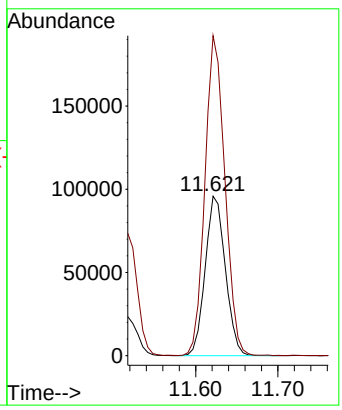


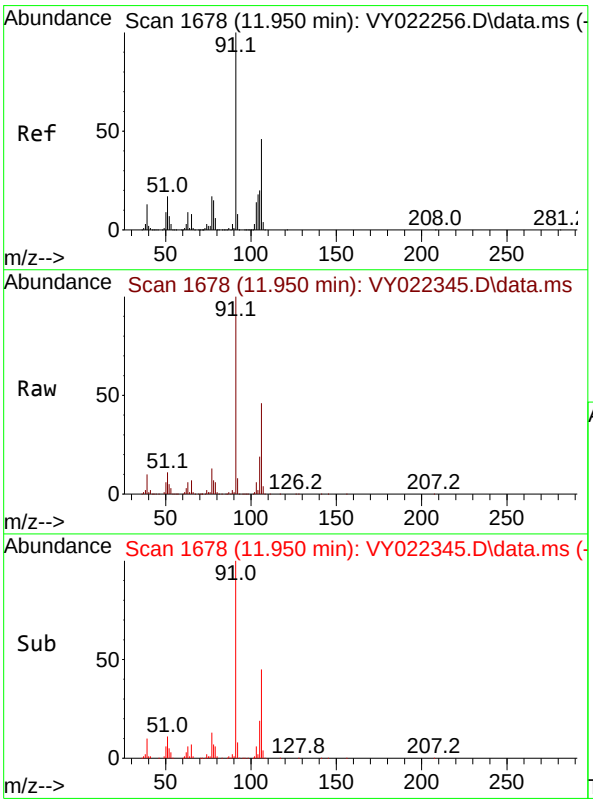

#68
m/p-Xylenes
Concen: 29.680 ug/l
RT: 11.621 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11

Tgt Ion:106 Resp: 163448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 198.0 | 163.0 | 244.4 |

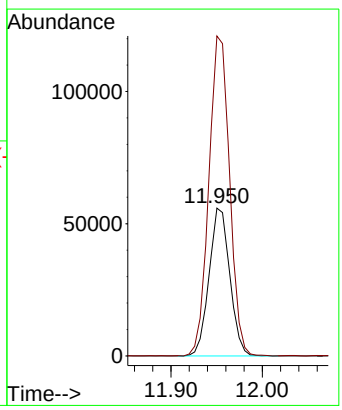


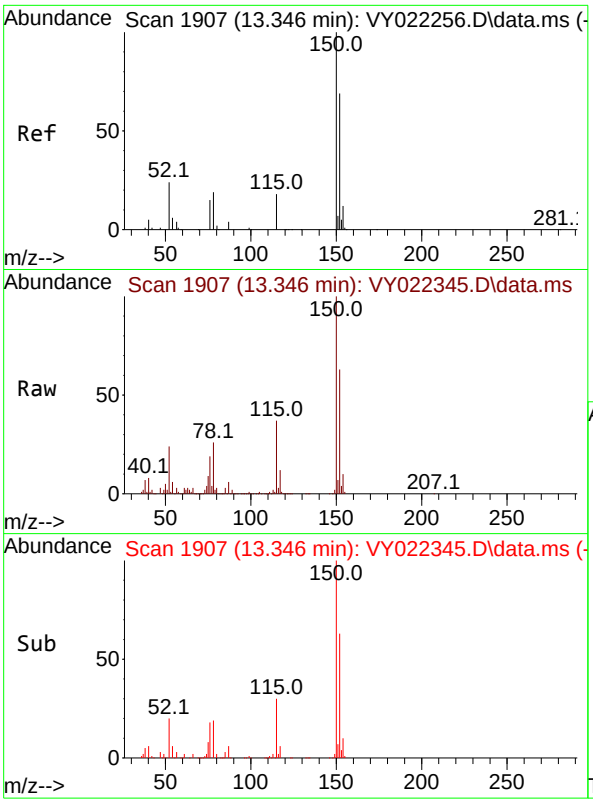




#69
o-Xylene
Concen: 16.880 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion:106 Resp: 87953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.9 | 108.3 | 324.8 |



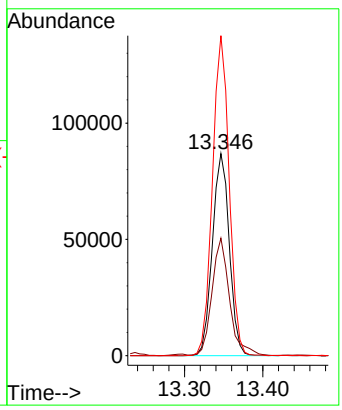


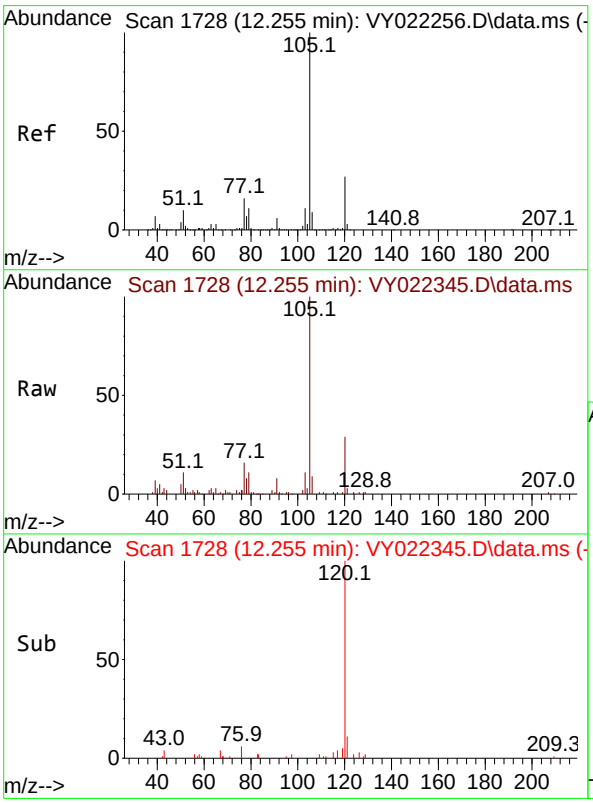

#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11

Tgt Ion:152 Resp: 130644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.7 | 29.4 | 88.2 |
| 150 | 155.7 | 0.0 | 353.8 |

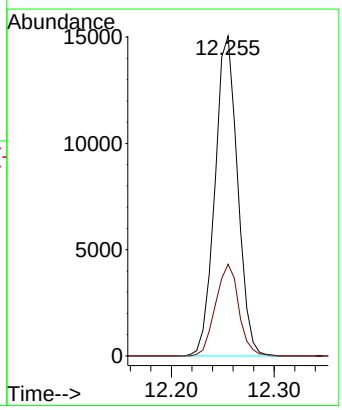


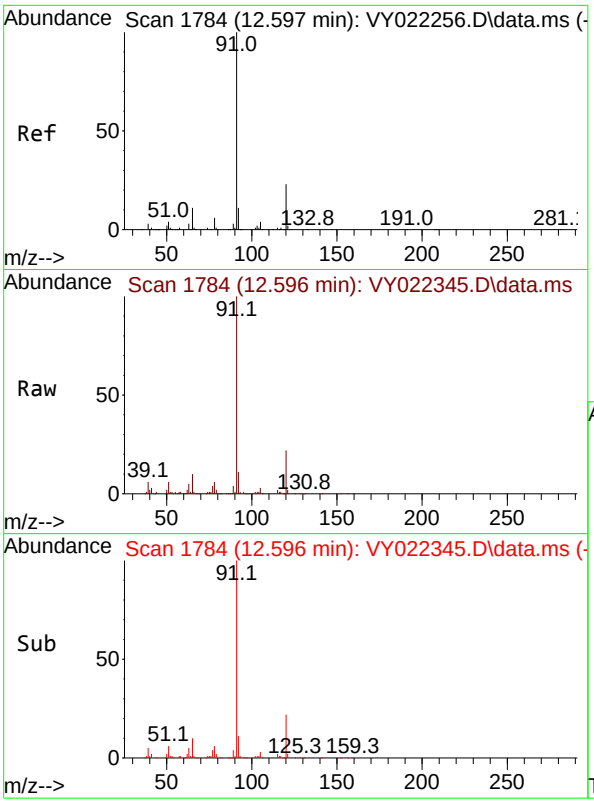




#73
Isopropylbenzene
Concen: 2.127 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion:105 Resp: 23017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.5 | 13.2 | 39.6 |



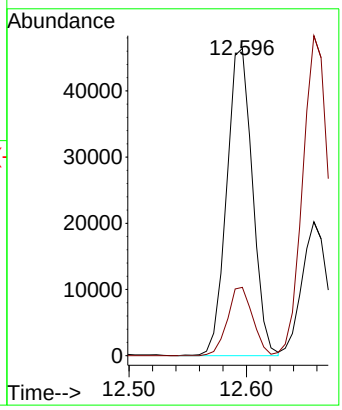


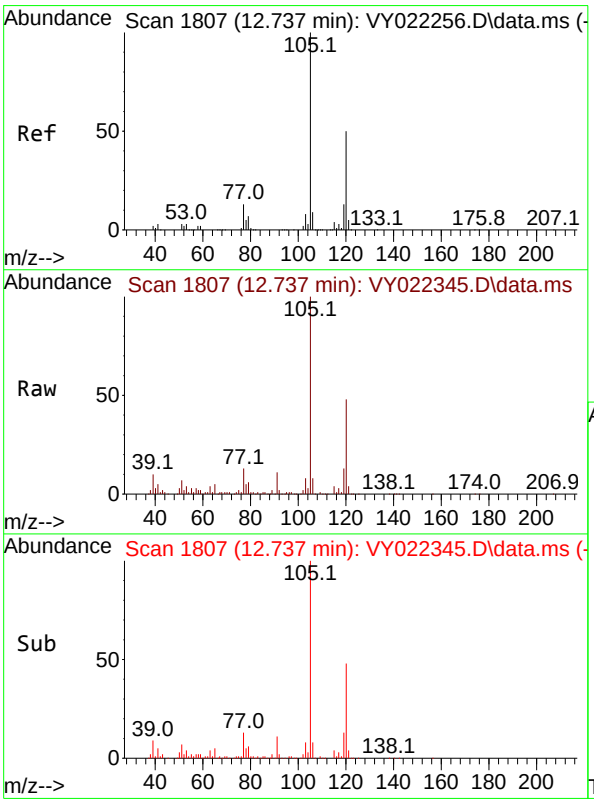

#78
n-propylbenzene
Concen: 5.421 ug/l
RT: 12.596 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11

Tgt Ion: 91 Resp: 70774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.8 | 11.1 | 33.3 |

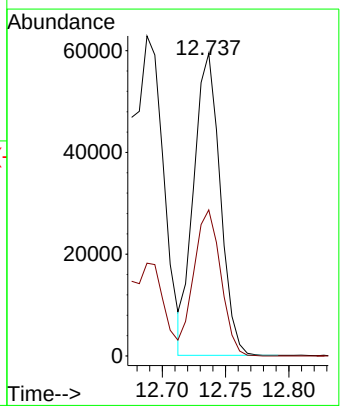


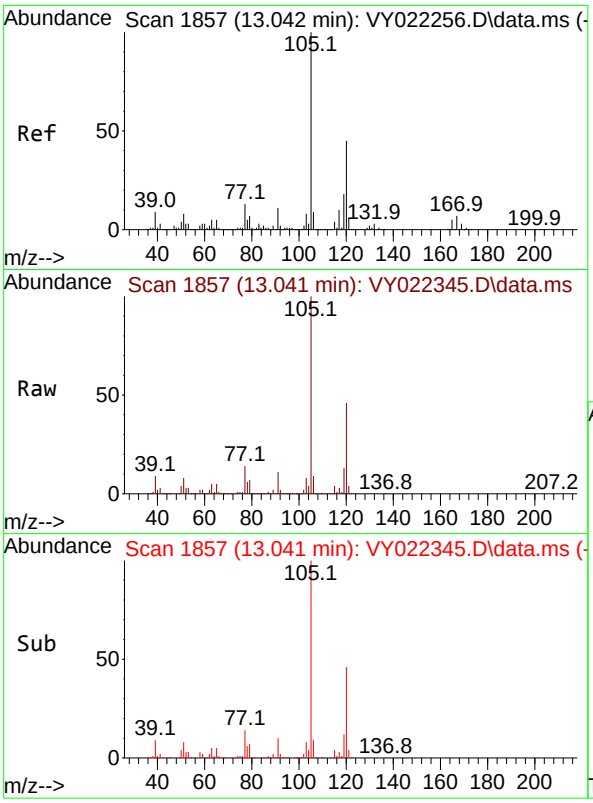




#80
1,3,5-Trimethylbenzene
Concen: 9.879 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion:105 Resp: 86309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.5 | 24.2 | 72.6 |



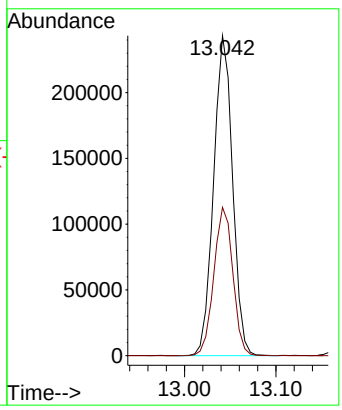


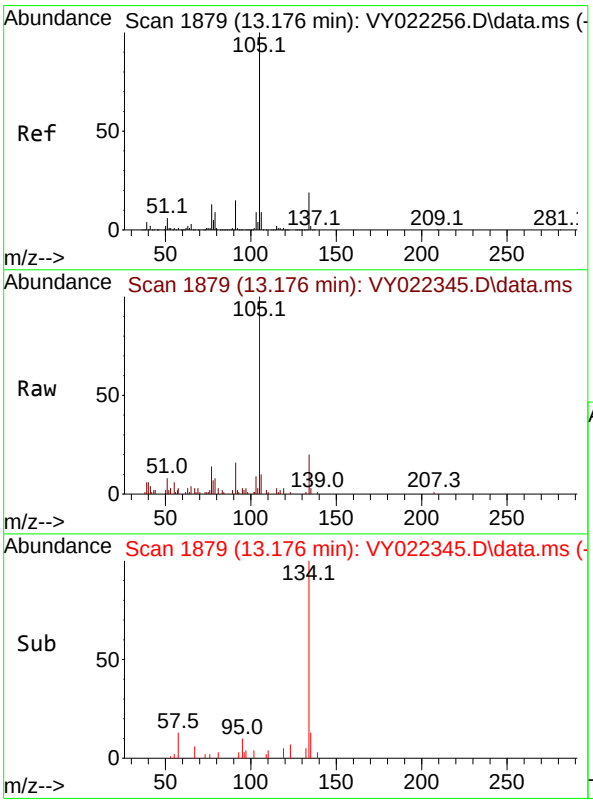

#84
1,2,4-Trimethylbenzene
Concen: 40.417 ug/l
RT: 13.041 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11

Tgt Ion:105 Resp: 350537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.5 | 22.3 | 66.9 |

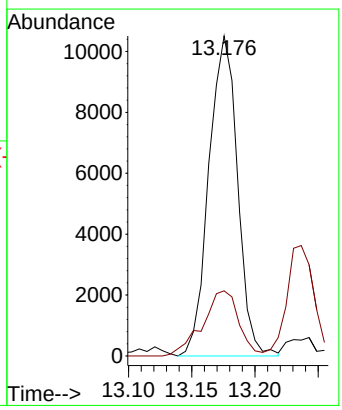


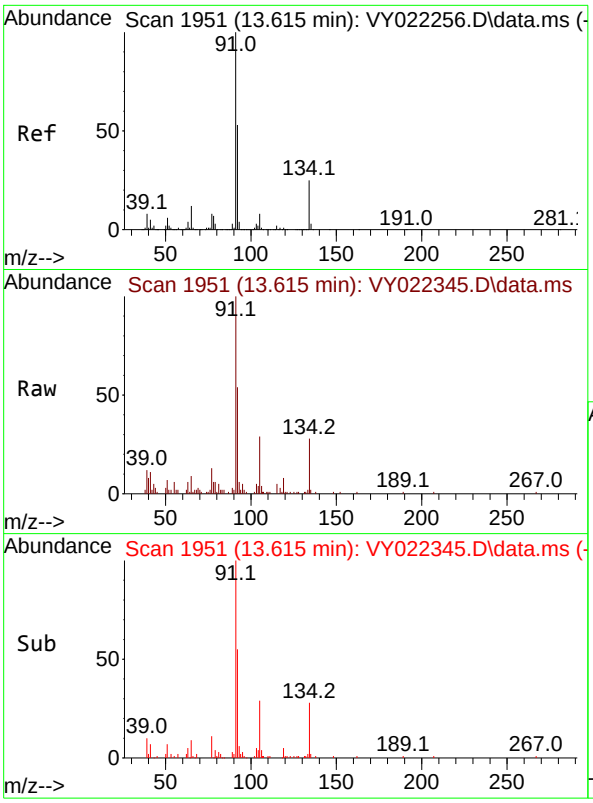




#85
sec-Butylbenzene
Concen: 1.436 ug/l
RT: 13.176 min Scan# 1879
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion:105 Resp: 16558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 25.8 | 9.8 | 29.5 |



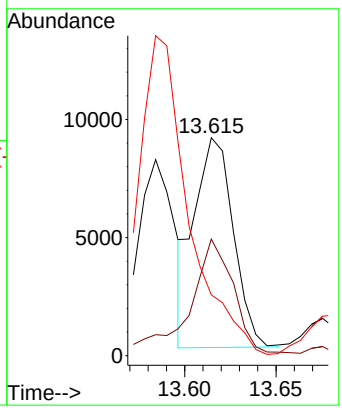



#89
n-Butylbenzene
Concen: 1.439 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11

Tgt Ion: 91 Resp: 13194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 62.9 | 26.3 | 78.9 |
| 134 | 0.0 | 12.4 | 37.4# |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 05/16/25 |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | 05/16/25 |
| Client Sample ID: | SS-MW1-11.5 | SDG No.: | Q2075 |
| Lab Sample ID: | Q2075-06 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 91 |
| Sample Wt/Vol: | 7.04 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022403.D | 1 | | 05/22/25 18:03 | VY052225 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 9.40 | | 0.62 | 3.90 | ug/Kg |
| 108-88-3 | Toluene | 44.7 | | 0.61 | 3.90 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 18.9 | | 0.52 | 3.90 | ug/Kg |
| 1330-20-7 | Total Xylenes | 1510 | E | 1.61 | 11.7 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 40.5 | | 0.61 | 3.90 | ug/Kg |
| 103-65-1 | n-propylbenzene | 56.3 | | 0.57 | 3.90 | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | 770 | E | 0.64 | 3.90 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 3.90 | U | 0.52 | 3.90 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 740 | E | 0.50 | 3.90 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 66.3 | | 0.52 | 3.90 | ug/Kg |
| 99-87-6 | p-Isopropyltoluene | 52.3 | | 0.48 | 3.90 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 71.9 | | 1.10 | 3.90 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 44.5 | | 63 - 155 | 89% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.4 | | 70 - 134 | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 55.4 | | 74 - 123 | 111% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.9 | | 38 - 136 | 100% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 235000 | 7.719 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 408000 | 8.622 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 331000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 156000 | 13.353 | | | |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022403.D
Acq On : 22 May 2025 18:03
Operator : SY/MD
Sample : Q2075-06
Misc : 7.04g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-MW1-11.5

Quant Time: May 23 03:41:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

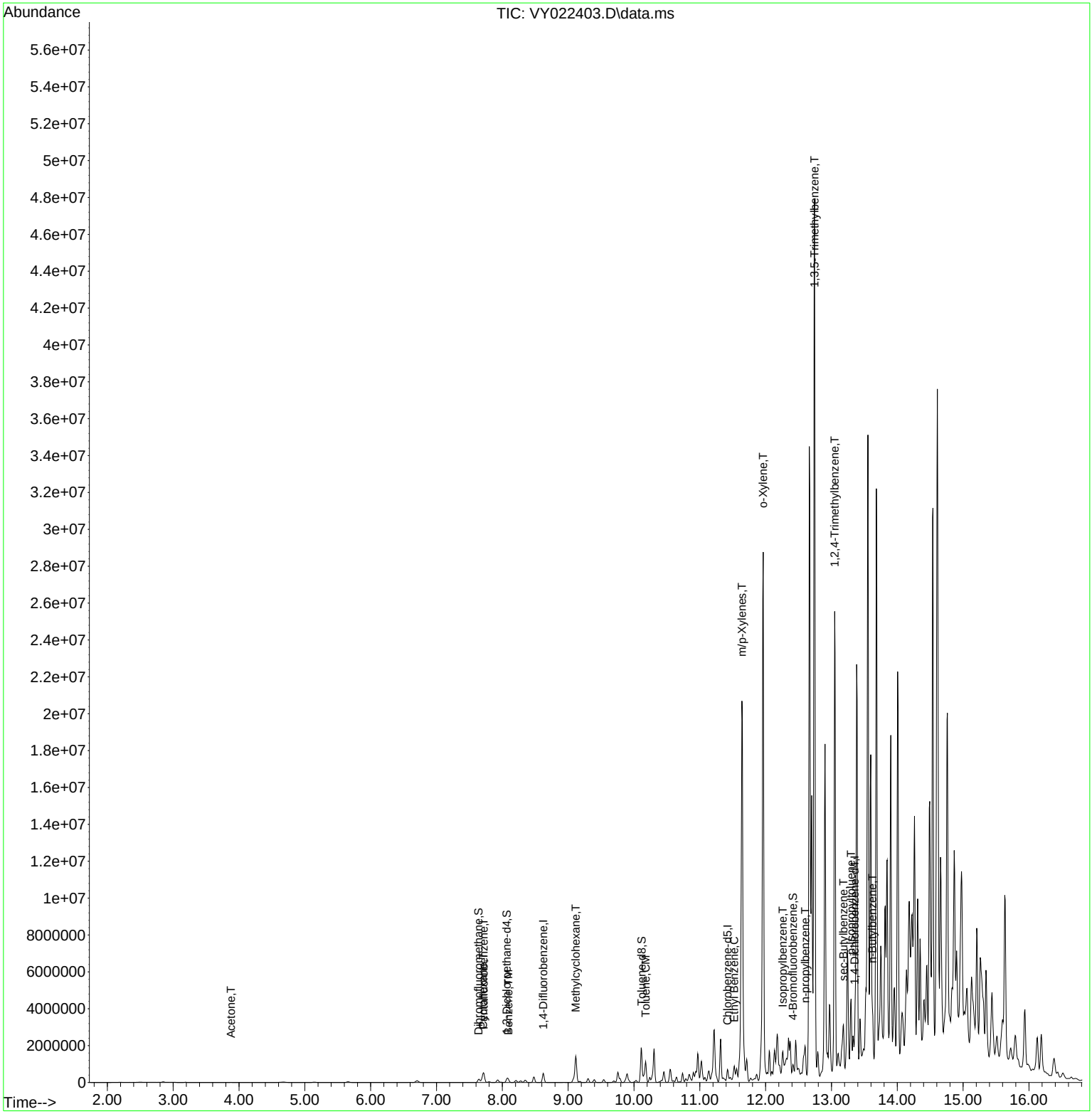
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 234597 | 50.000 | ug/l | | 0.01 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 407953 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 330547 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 155760 | 50.000 | ug/l | # | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 114168 | 44.529 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 89.060% | | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 122758 | 50.416 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.840% | | | | |
| 50) Toluene-d8 | 10.115 | 98 | 552290 | 55.382 | ug/l | | 0.01 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 110.760% | | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 157590 | 49.856 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 99.720% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 16) Acetone | 3.879 | 43 | 7070 | 14.706 | ug/l | | 93 |
| 31) Cyclohexane | 7.707 | 56 | 130694 | 25.198 | ug/l | | 96 |
| 39) Methylcyclohexane | 9.116 | 83 | 577391 | 107.159 | ug/l | | 95 |
| 40) Benzene | 8.091 | 78 | 142995 | 12.027 | ug/l | | 99 |
| 52) Toluene | 10.176 | 92 | 431499 | 57.313 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.524 | 91 | 337502 | 24.165 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.640 | 106 | 3697162 | 702.518 | ug/l | | 93 |
| 69) o-Xylene | 11.963 | 106 | 6111078 | 1227.325 | ug/l | | 83 |
| 73) Isopropylbenzene | 12.261 | 105 | 670113 | 51.931 | ug/l | | 100 |
| 78) n-propylbenzene | 12.603 | 91 | 1121922 | 72.082 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 10325259 | 991.235 | ug/l | | 92 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 9807116 | 948.437 | ug/l | | 91 |
| 85) sec-Butylbenzene | 13.182 | 105 | 1168163 | 84.998 | ug/l | | 87 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 774515 | 67.007 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.621 | 91 | 1007822 | 92.163 | ug/l | # | 66 |

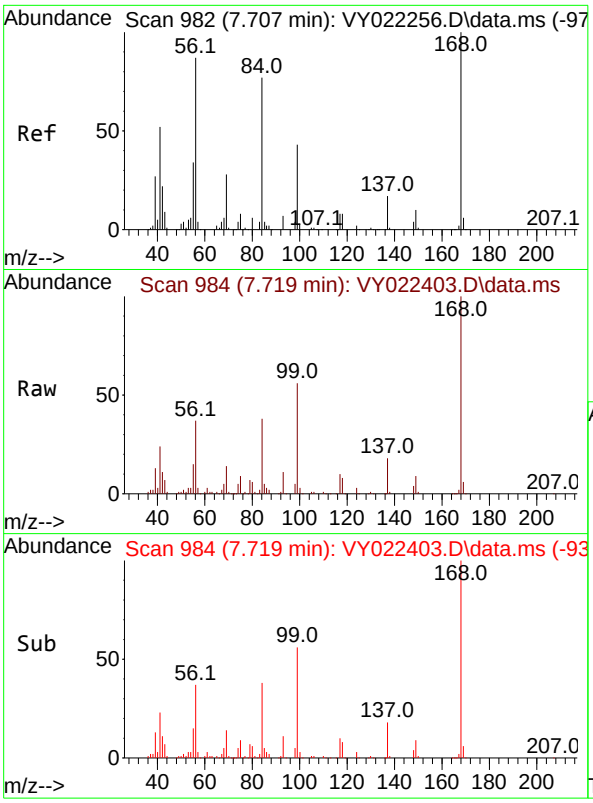
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022403.D
Acq On : 22 May 2025 18:03
Operator : SY/MD
Sample : Q2075-06
Misc : 7.04g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-MW1-11.5

Quant Time: May 23 03:41:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



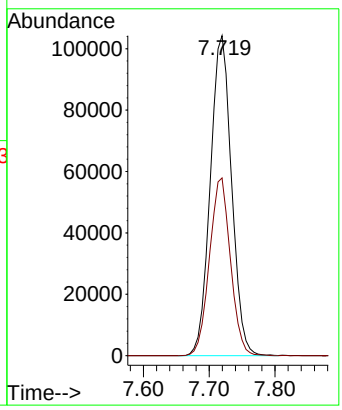


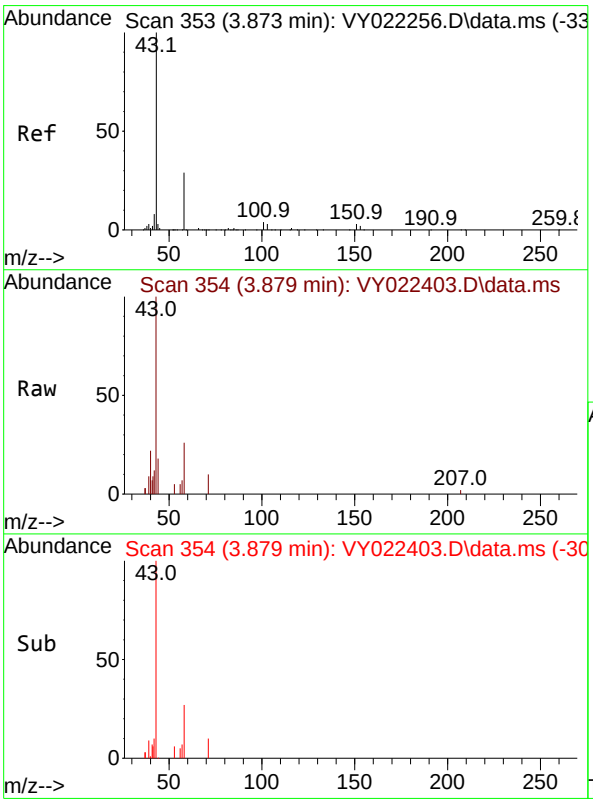

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-MW1-11.5

Tgt Ion:168 Resp: 234597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.5 | 44.2 | 66.4 |

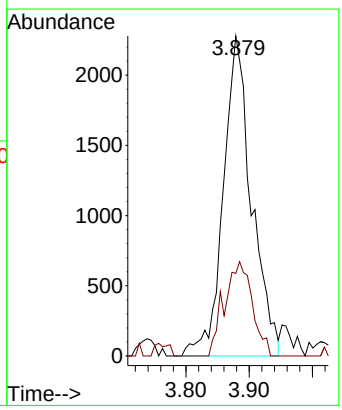


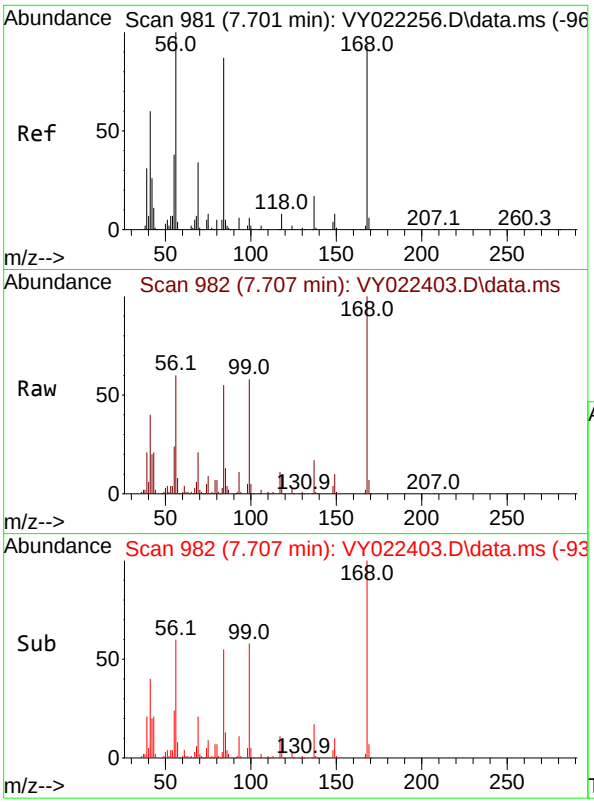




#16
Acetone
Concen: 14.706 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

Tgt Ion: 43 Resp: 7070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.8 | 23.6 | 35.4 |



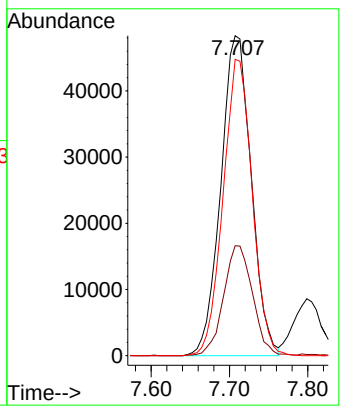


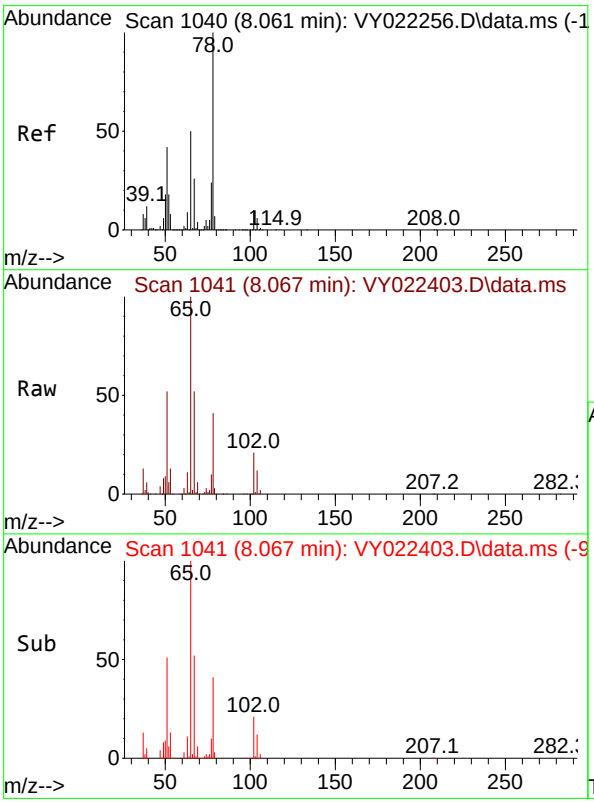

#31
Cyclohexane
Concen: 25.198 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-MW1-11.5

Tgt Ion: 56 Resp: 130694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.4 | 27.4 | 41.2 |
| 84 | 92.6 | 70.0 | 105.0 |

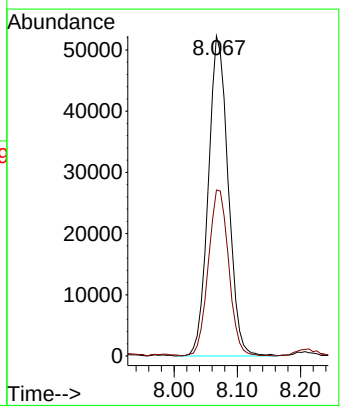


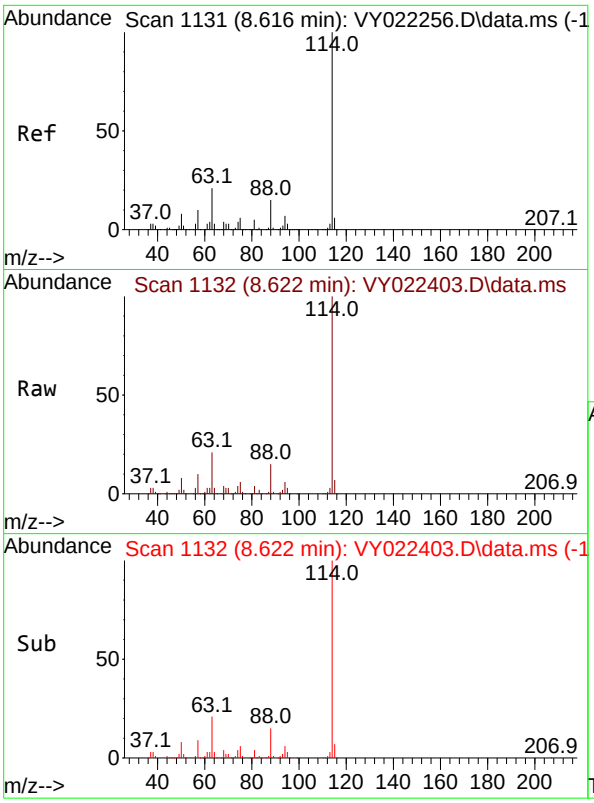




#33
1,2-Dichloroethane-d4
Concen: 44.529 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

Tgt Ion: 65 Resp: 114168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.3 | 0.0 | 104.6 |



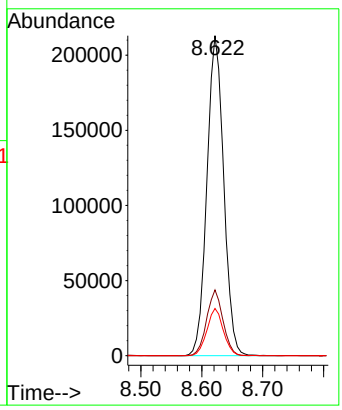


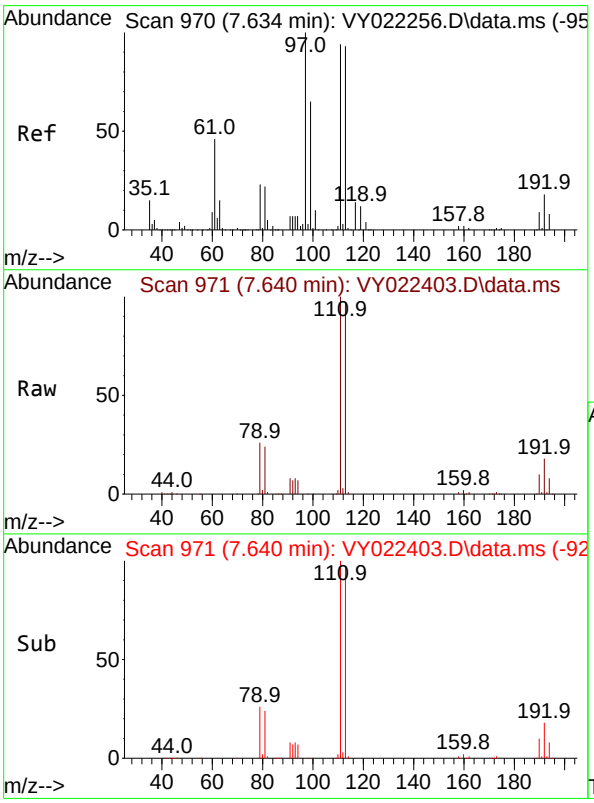

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-MW1-11.5

Tgt Ion:114 Resp: 407953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.6 | 0.0 | 41.0 |
| 88 | 14.8 | 0.0 | 29.4 |

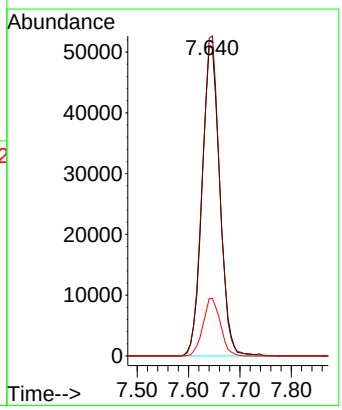


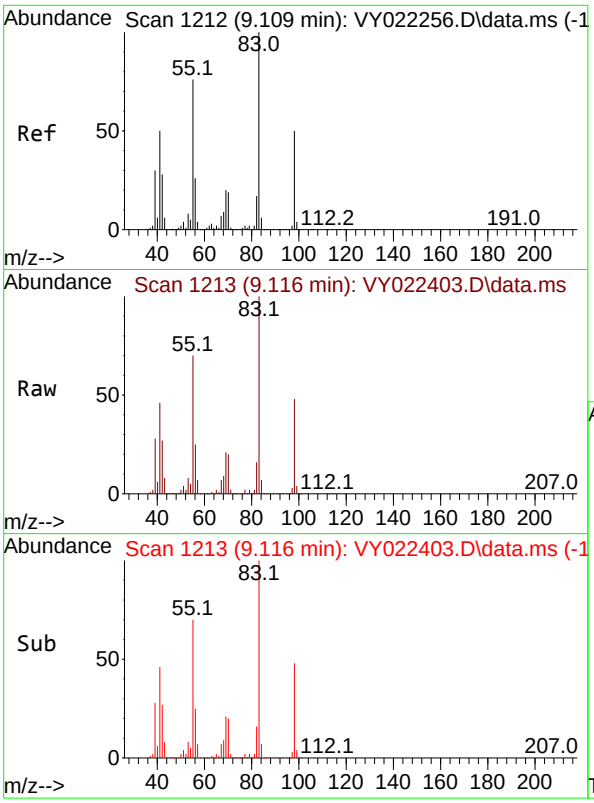




#35
Dibromofluoromethane
Concen: 50.416 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

Tgt Ion:113 Resp: 122758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.5 | 82.6 | 123.8 |
| 192 | 18.1 | 15.2 | 22.8 |



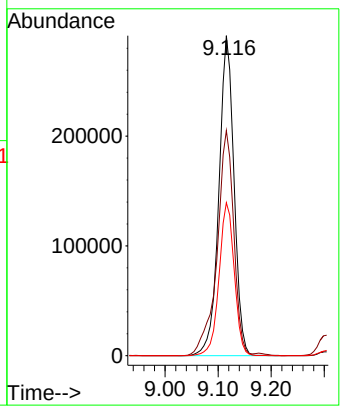


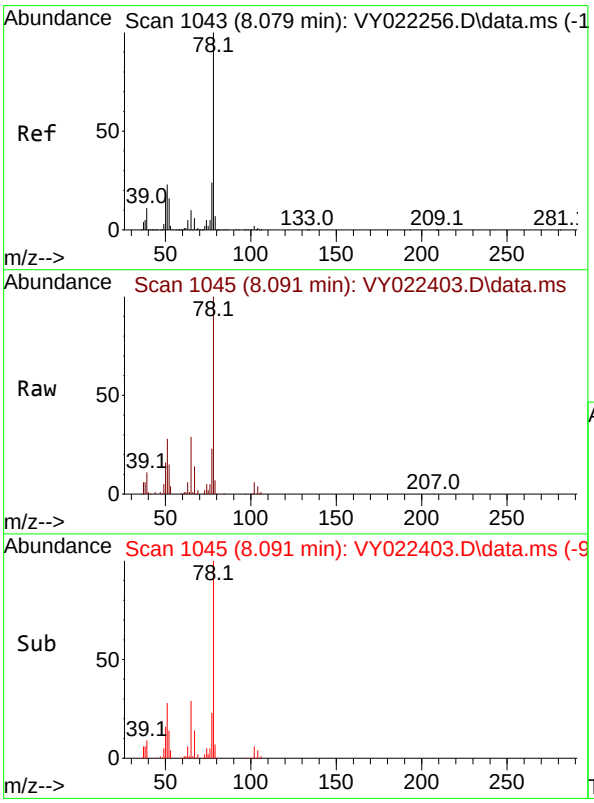

#39
Methylcyclohexane
Concen: 107.159 ug/l
RT: 9.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-MW1-11.5

Tgt Ion: 83 Resp: 577391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 70.3 | 60.6 | 90.8 |
| 98 | 47.8 | 40.0 | 60.0 |

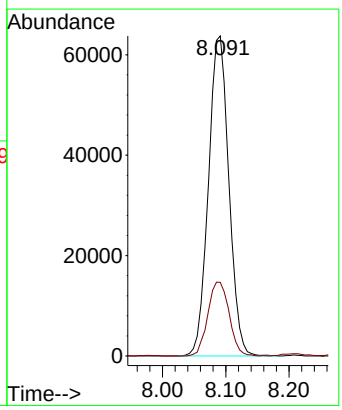


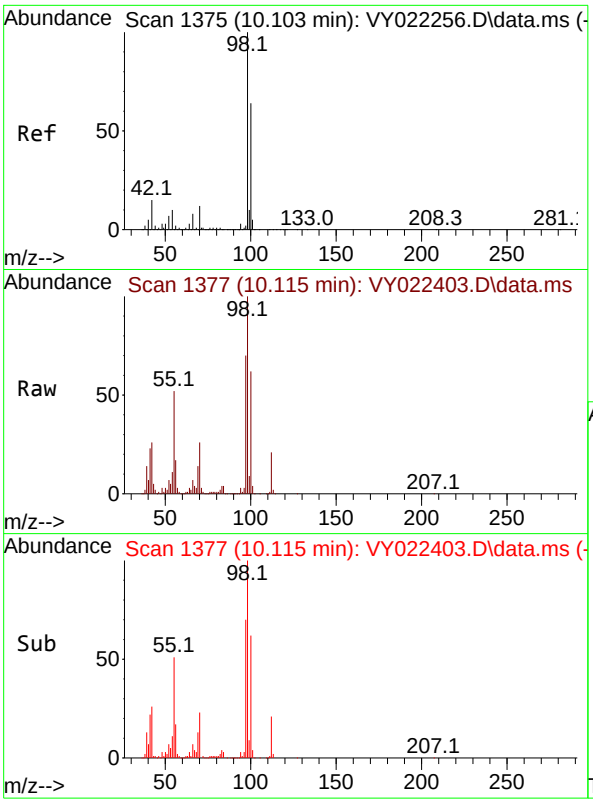




#40
Benzene
Concen: 12.027 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.012 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

Tgt Ion: 78 Resp: 142995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.0 | 18.9 | 28.3 |



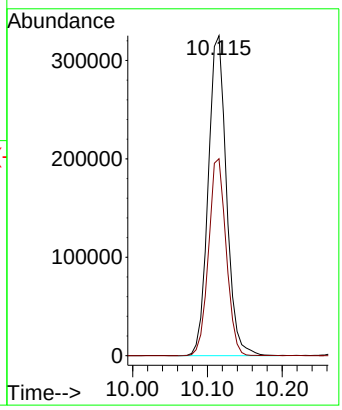


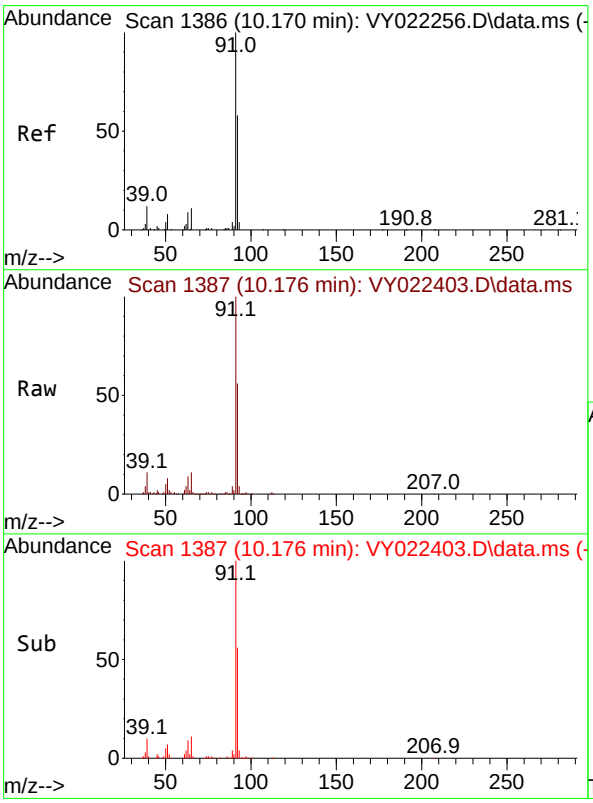

#50
Toluene-d8
Concen: 55.382 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-MW1-11.5

Tgt Ion: 98 Resp: 552290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 59.4 | 51.8 | 77.8 |

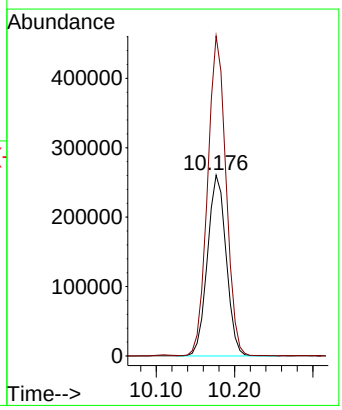


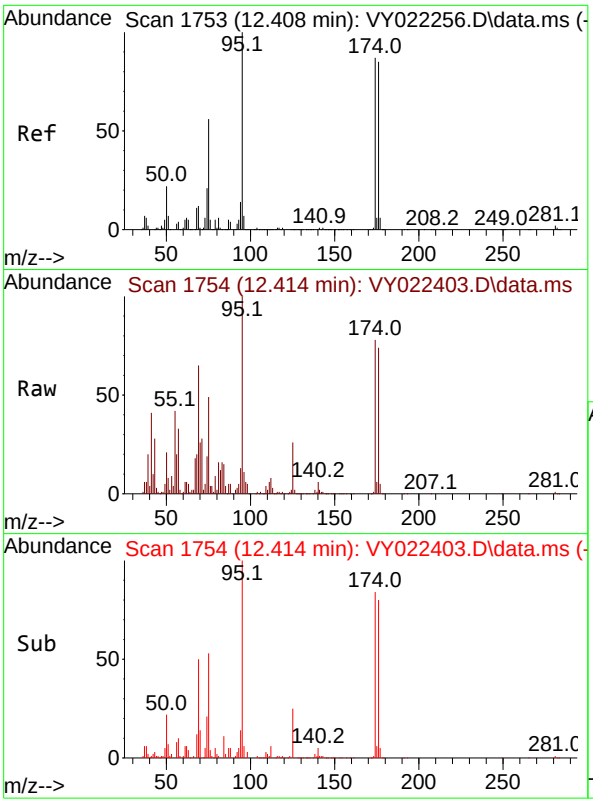




#52
Toluene
Concen: 57.313 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

Tgt Ion: 92 Resp: 431499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.6 | 139.1 | 208.7 |



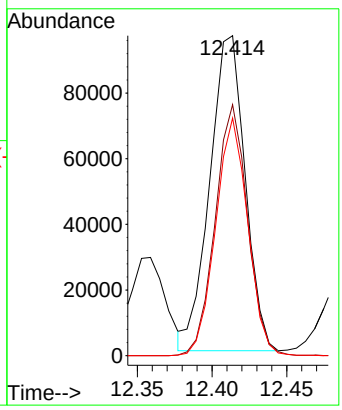


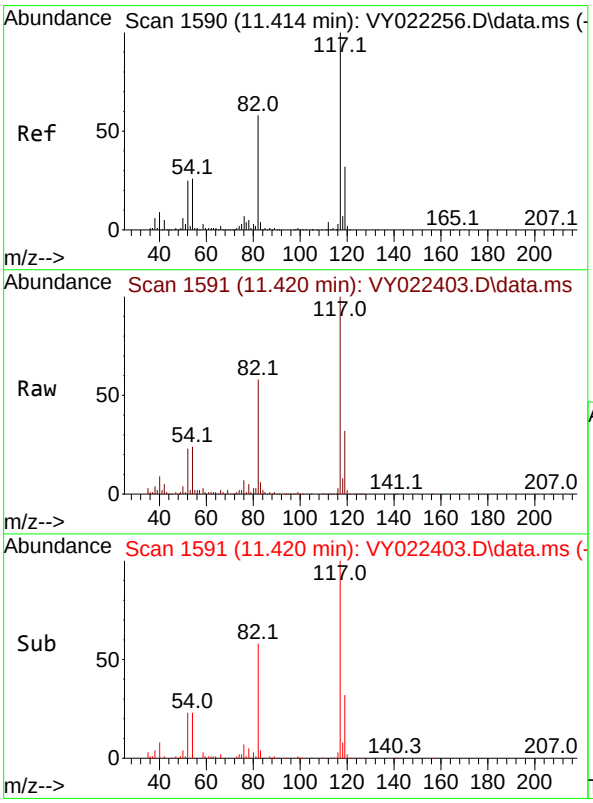

#62
4-Bromofluorobenzene
Concen: 49.856 ug/l
RT: 12.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-MW1-11.5

Tgt Ion: 95 Resp: 157590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 73.1 | 0.0 | 166.8 |
| 176 | 68.8 | 0.0 | 160.8 |

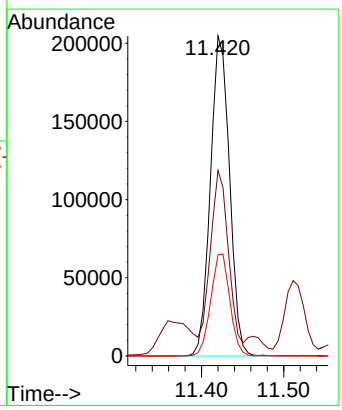


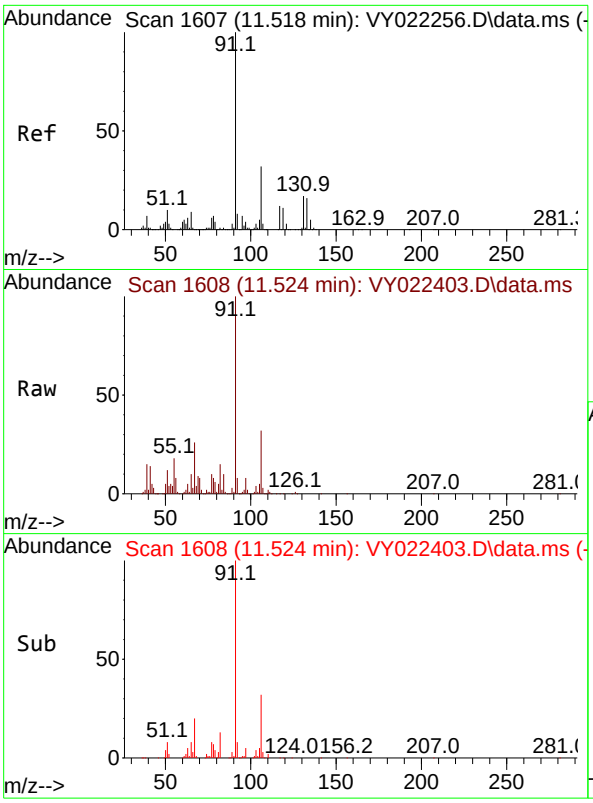




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

Tgt Ion:117 Resp: 330547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.1 | 46.6 | 70.0 |
| 119 | 31.6 | 25.8 | 38.6 |



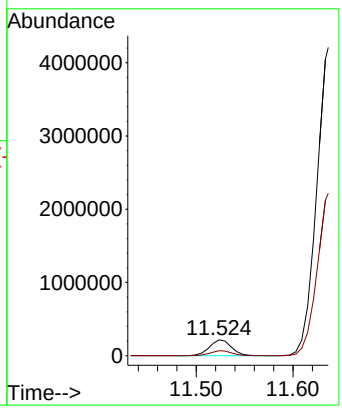


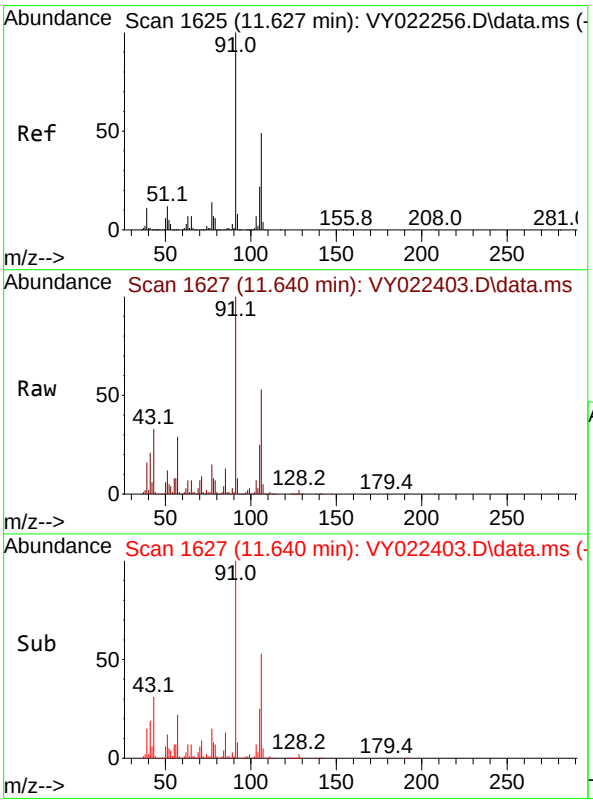

#67
Ethyl Benzene
Concen: 24.165 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-MW1-11.5

Tgt Ion: 91 Resp: 337502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.6 | 25.4 | 38.0 |

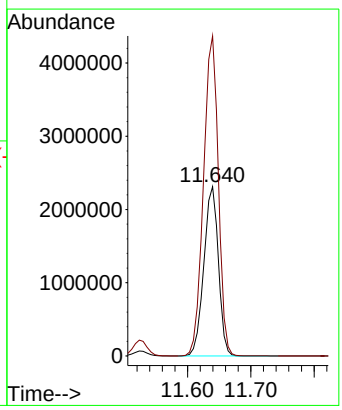


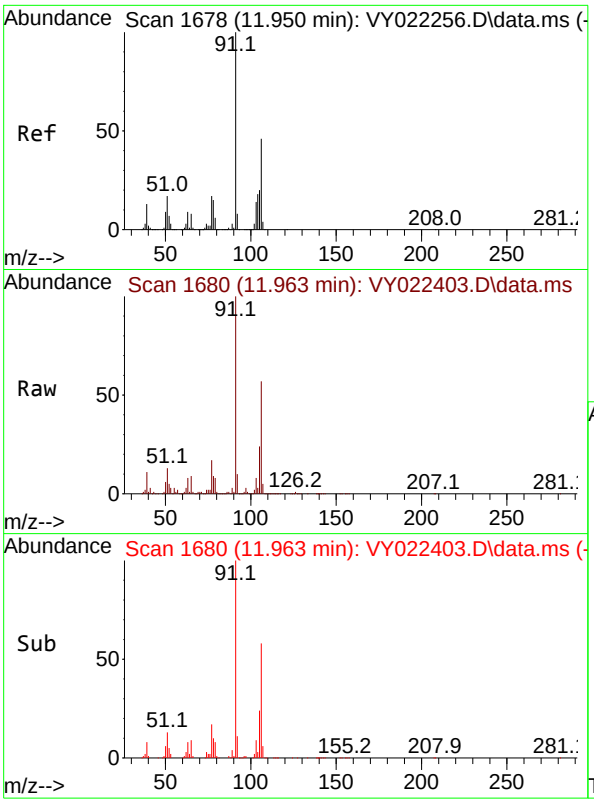




#68
m/p-Xylenes
Concen: 702.518 ug/l
RT: 11.640 min Scan# 1627
Delta R.T. 0.012 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

Tgt Ion:106 Resp: 3697162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 192.9 | 163.0 | 244.4 |



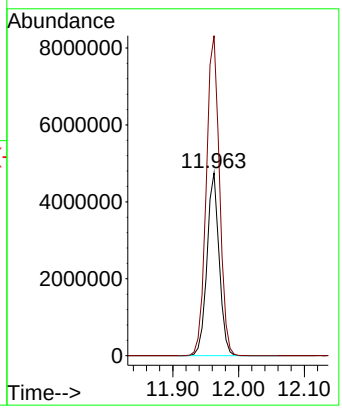


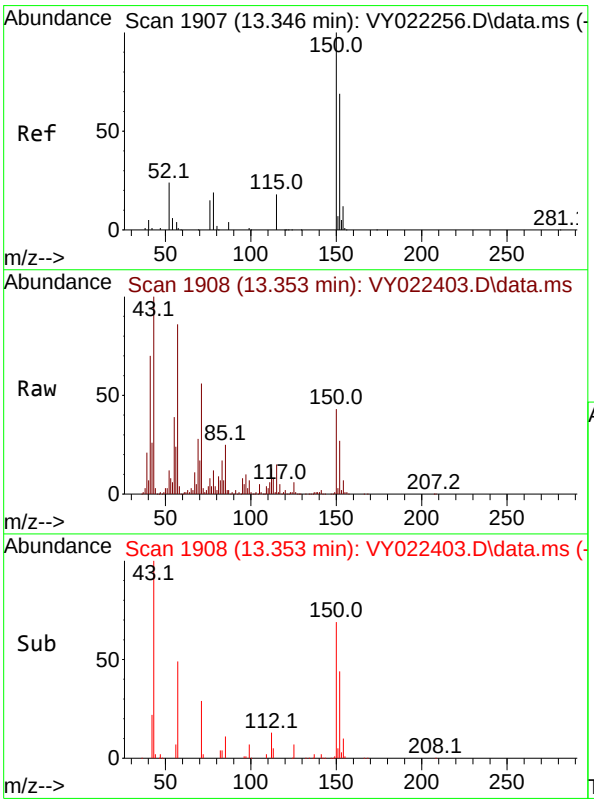

#69
o-Xylene
Concen: 1227.325 ug/l
RT: 11.963 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-MW1-11.5

Tgt Ion:106 Resp: 6111078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 190.2 | 108.3 | 324.8 |

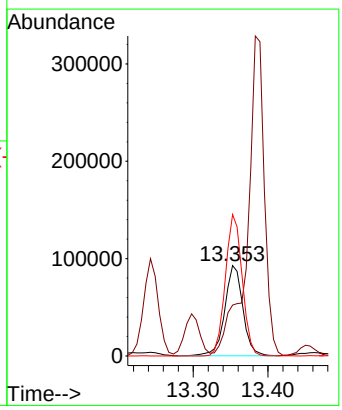


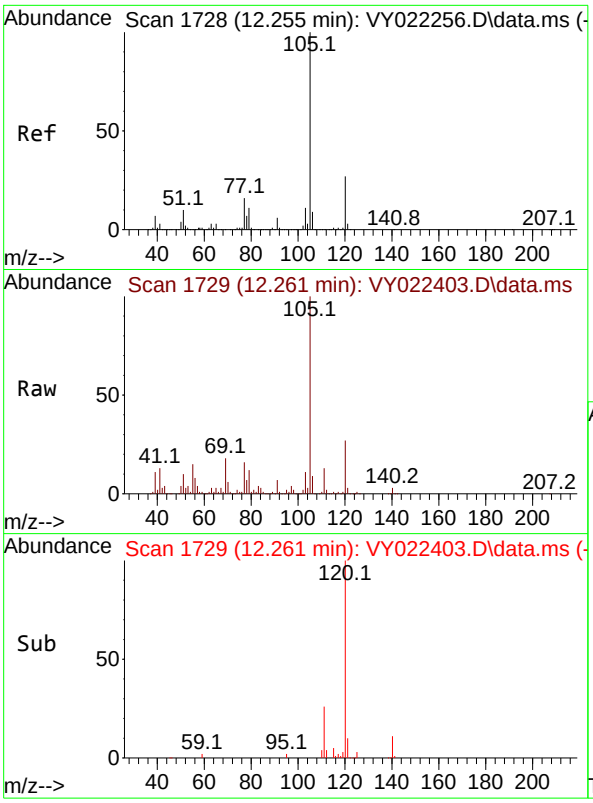




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

Tgt Ion:152 Resp: 155760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 0.0 | 29.4 | 88.2# |
| 150 | 146.2 | 0.0 | 353.8 |



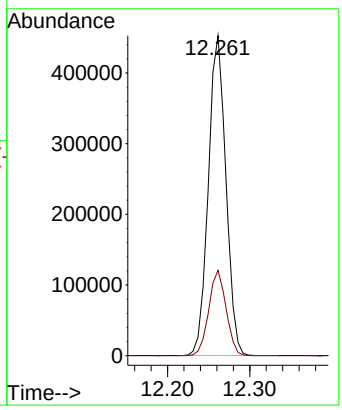


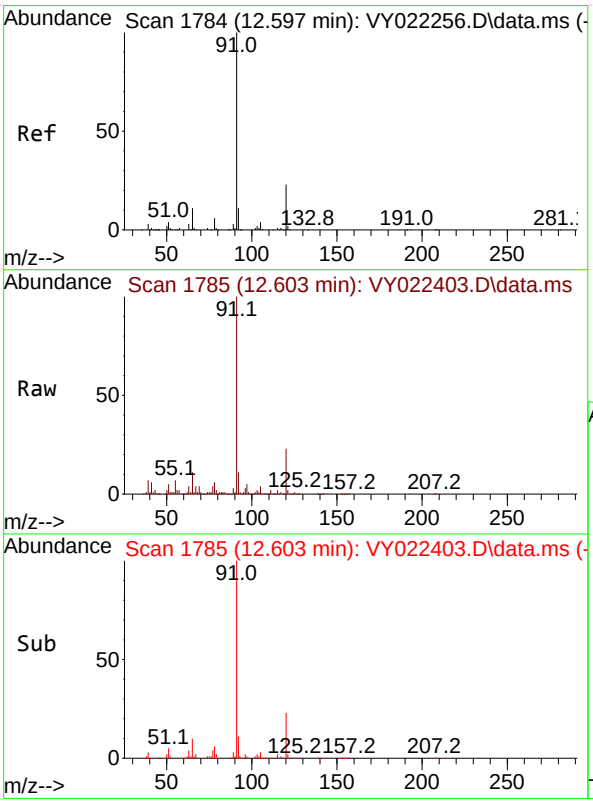

#73
Isopropylbenzene
Concen: 51.931 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-MW1-11.5

Tgt Ion:105 Resp: 670113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.3 | 13.2 | 39.6 |

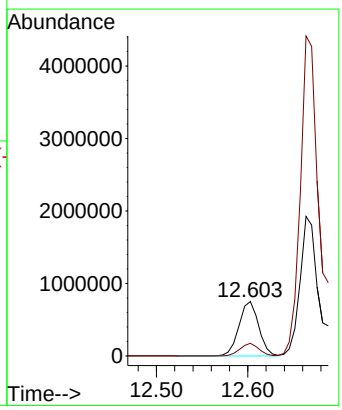


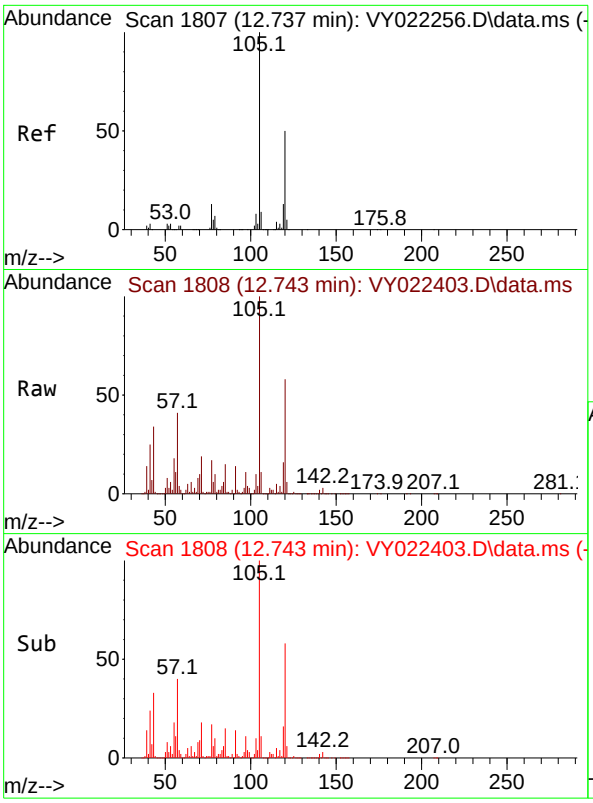




#78
n-propylbenzene
Concen: 72.082 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

Tgt Ion: 91 Resp: 1121922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.5 | 11.1 | 33.3 |



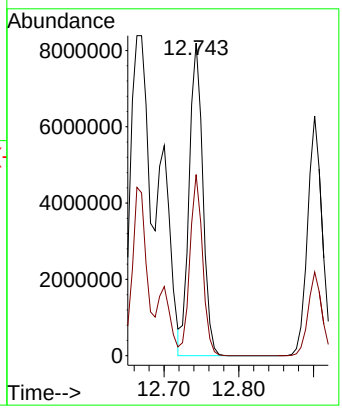


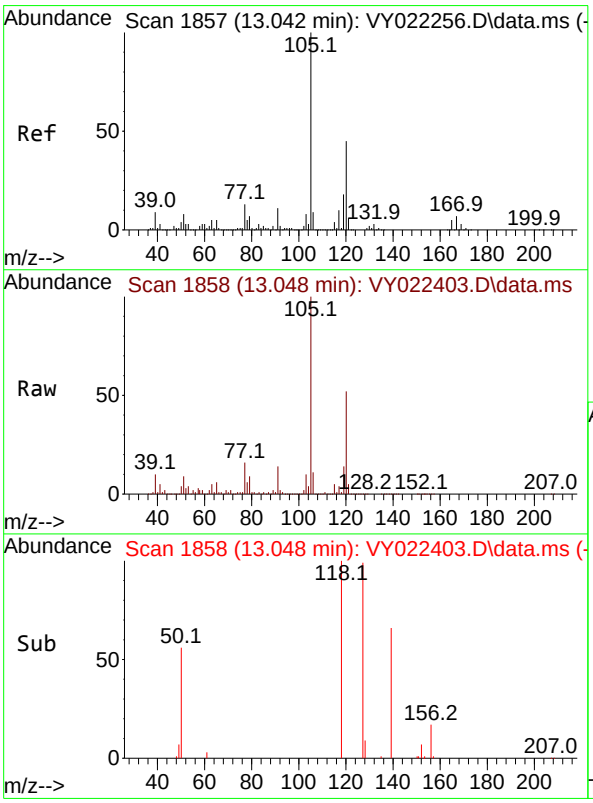

#80
1,3,5-Trimethylbenzene
Concen: 991.235 ug/l
RT: 12.743 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-MW1-11.5

Tgt Ion:105 Resp:10325259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 54.2 | 24.2 | 72.6 |

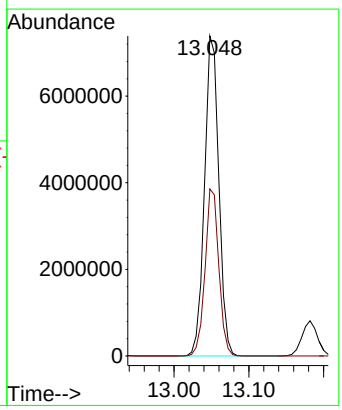


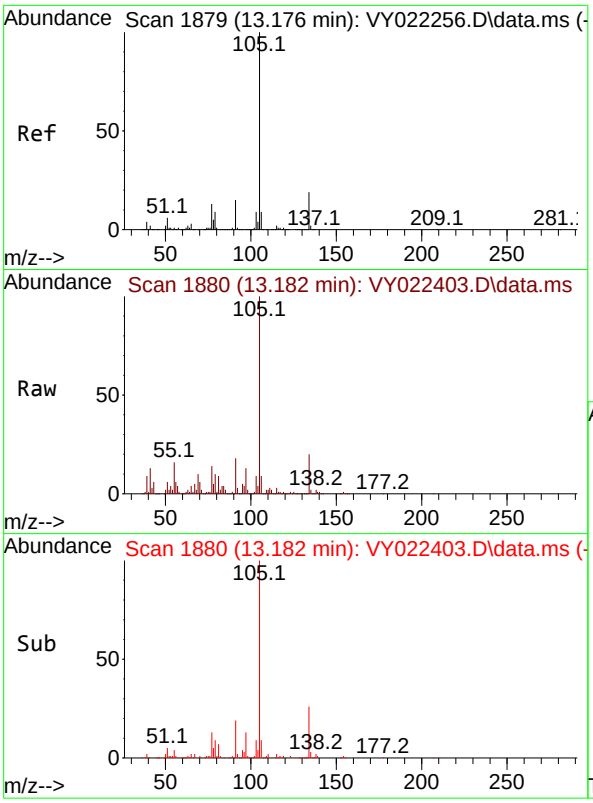




#84
1,2,4-Trimethylbenzene
Concen: 948.437 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

Tgt Ion:105 Resp: 9807116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.3 | 22.3 | 66.9 |



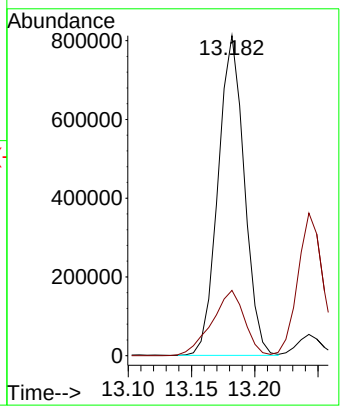


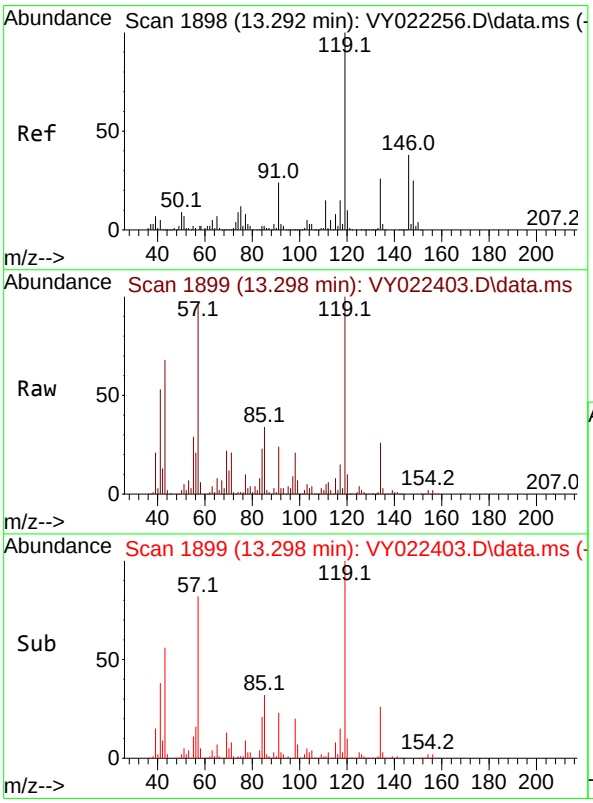

#85
sec-Butylbenzene
Concen: 84.998 ug/l
RT: 13.182 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-MW1-11.5

Tgt Ion:105 Resp: 1168163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 25.5 | 9.8 | 29.5 |

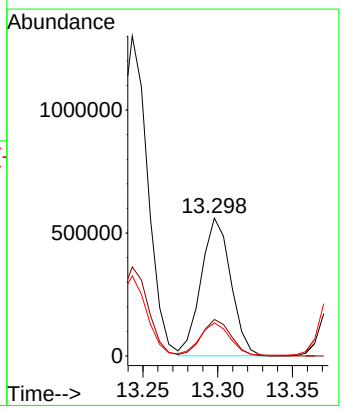


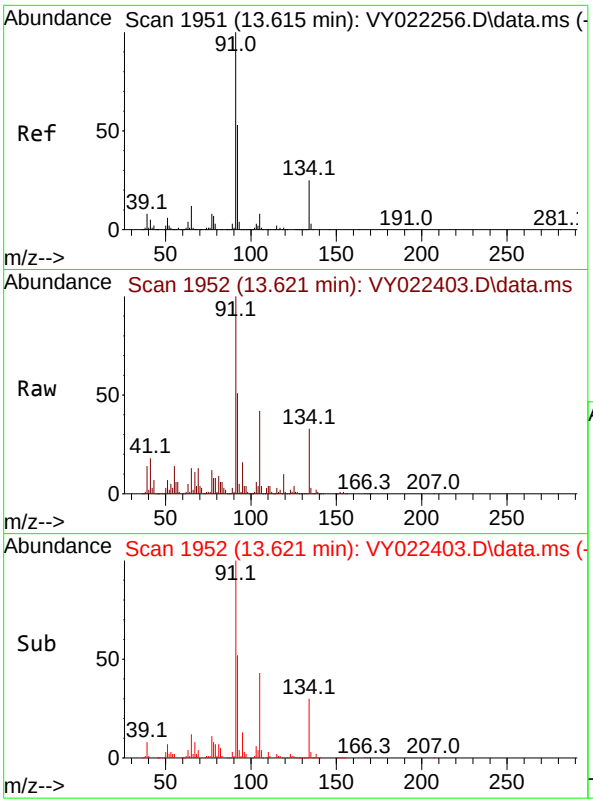




#86
p-Isopropyltoluene
Concen: 67.007 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

Tgt Ion:119 Resp: 774515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 12.9 | 38.6 |
| 91 | 23.2 | 12.1 | 36.3 |



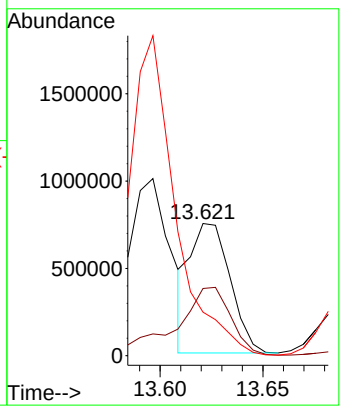



#89
n-Butylbenzene
Concen: 92.163 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022403.D
Acq: 22 May 2025 18:03

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-MW1-11.5

Tgt Ion: 91 Resp: 1007822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 71.8 | 26.3 | 78.9 |
| 134 | 0.0 | 12.4 | 37.4# |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 05/16/25 |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | 05/16/25 |
| Client Sample ID: | SS-MW1-11.5ME | SDG No.: | Q2075 |
| Lab Sample ID: | Q2075-06ME | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 91 |
| Sample Wt/Vol: | 8.36 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | 100 uL | Test: | VOCMS Group3 |
| GC Column: | DB-624UI ID : 0.18 | Level : | MED |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046336.D | 1 | | 05/23/25 11:46 | VX052325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 160 | UD | 26.0 | 160 | ug/Kg |
| 108-88-3 | Toluene | 83.3 | JD | 25.6 | 160 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 110 | JD | 22.0 | 160 | ug/Kg |
| 1330-20-7 | Total Xylenes | 630 | D | 67.6 | 490 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 42.8 | JD | 25.6 | 160 | ug/Kg |
| 103-65-1 | n-propylbenzene | 130 | JD | 24.0 | 160 | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | 220 | D | 26.9 | 160 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 160 | UD | 22.0 | 160 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 810 | D | 21.0 | 160 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 63.9 | JD | 21.7 | 160 | ug/Kg |
| 99-87-6 | p-Isopropyltoluene | 43.7 | JD | 20.4 | 160 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 180 | D | 47.6 | 160 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.0 | | 63 - 155 | 102% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.4 | | 70 - 134 | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.7 | | 74 - 123 | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.5 | | 38 - 136 | 103% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 61400 | 5.544 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 119000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 110000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 48700 | 12.024 | | | |

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\VX052325\
Data File : VX046336.D
Acq On : 23 May 2025 11:46
Operator : JC/MD
Sample : Q2075-06ME
Misc : 8.36g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
SS-MW1-11.5ME

Quant Time: May 23 12:11:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

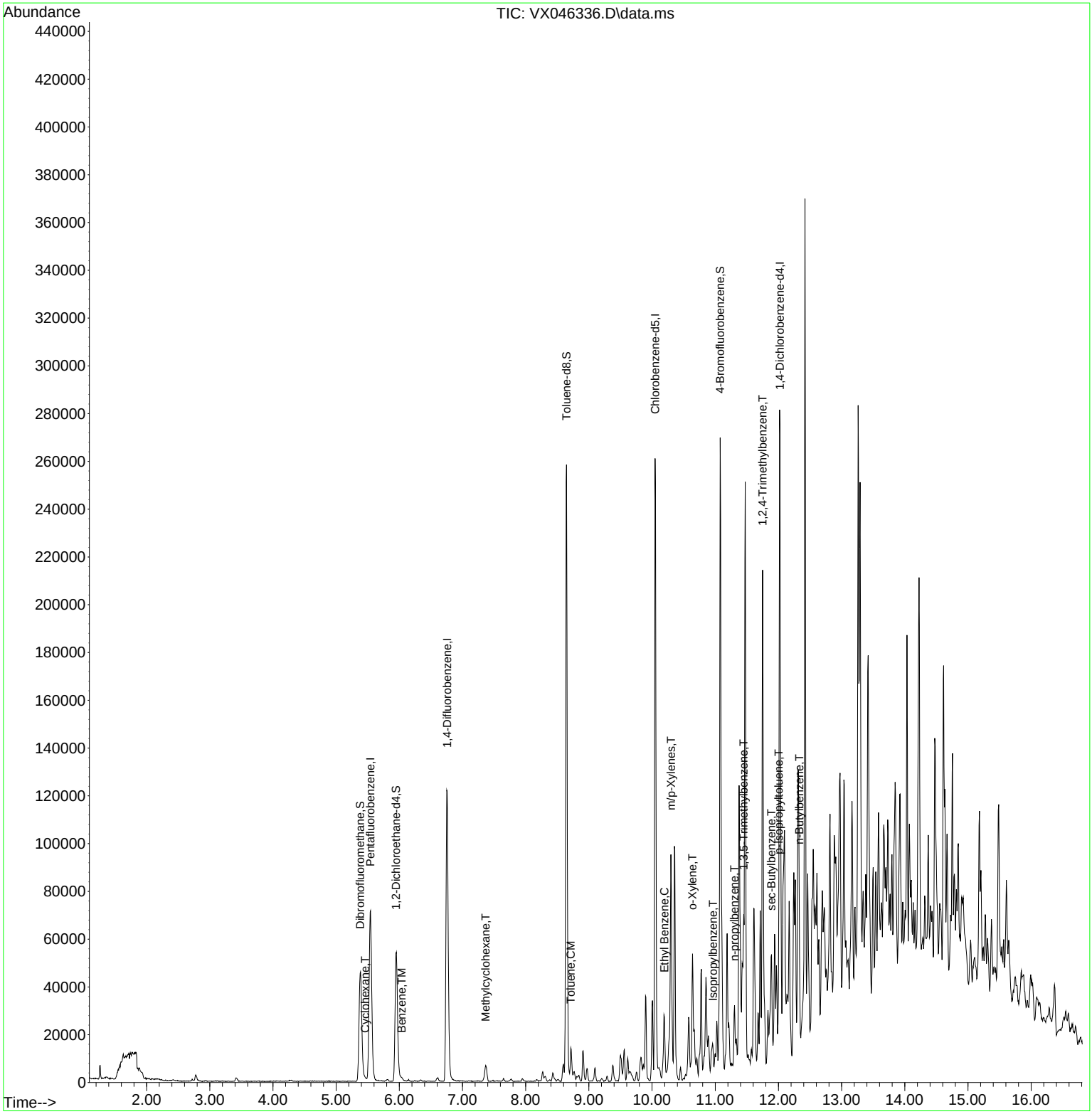
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 61392 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 119098 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 110366 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.024 | 152 | 48680 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 58363 | 50.992 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 101.980% | | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 41500 | 48.389 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 96.780% | | | | |
| 50) Toluene-d8 | 8.647 | 98 | 150629 | 50.745 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 101.480% | | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 58615 | 51.479 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 102.960% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 31) Cyclohexane | 5.458 | 56 | 676 | 0.496 | ug/l | # | 95 |
| 39) Methylcyclohexane | 7.367 | 83 | 2823 | 1.903 | ug/l | | 85 |
| 40) Benzene | 6.037 | 78 | 1650 | 0.489 | ug/l | # | 87 |
| 52) Toluene | 8.714 | 92 | 5245 | 2.534 | ug/l | | 98 |
| 67) Ethyl Benzene | 10.195 | 91 | 14088 | 3.308 | ug/l | | 89 |
| 68) m/p-Xylenes | 10.299 | 106 | 19090 | 12.258 | ug/l | | 98 |
| 69) o-Xylene | 10.640 | 106 | 10725 | 7.064 | ug/l | | 98 |
| 73) Isopropylbenzene | 10.963 | 105 | 4939 | 1.303 | ug/l | | 92 |
| 78) n-propylbenzene | 11.305 | 91 | 17106 | 3.882 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 21294 | 6.725 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 79105 | 24.671 | ug/l | | 98 |
| 85) sec-Butylbenzene | 11.890 | 105 | 7610 | 1.943 | ug/l | | 95 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 4298 | 1.330 | ug/l | | 97 |
| 89) n-Butylbenzene | 12.329 | 91 | 15953 | 5.627 | ug/l | # | 48 |

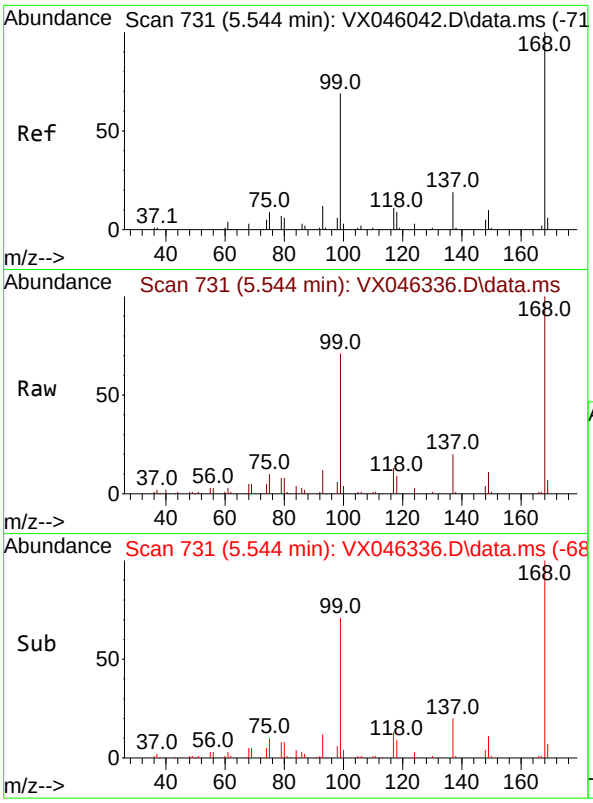
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046336.D
Acq On : 23 May 2025 11:46
Operator : JC/MD
Sample : Q2075-06ME
Misc : 8.36g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
SS-MW1-11.5ME

Quant Time: May 23 12:11:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



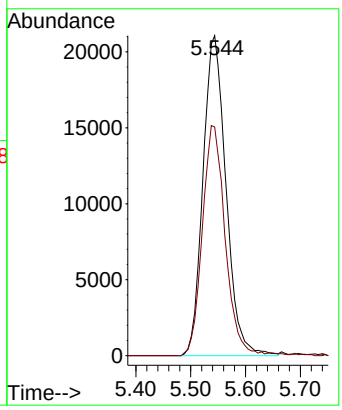


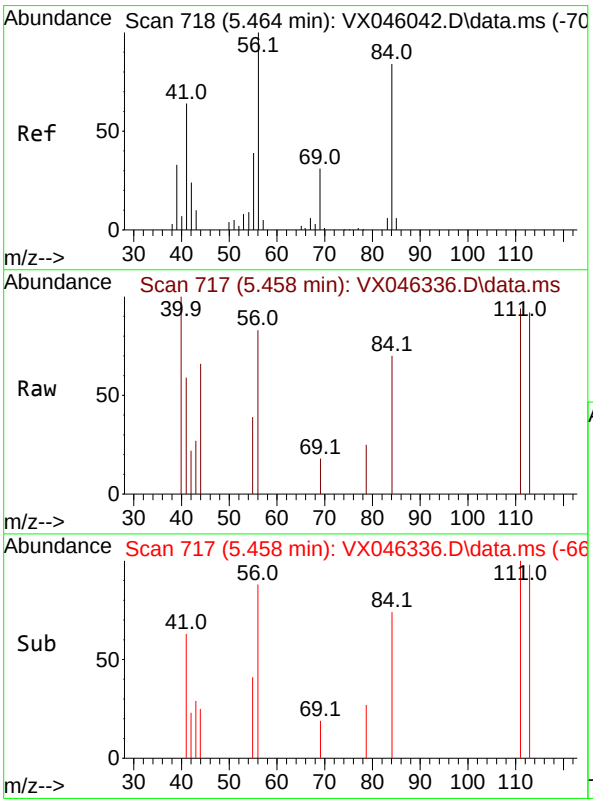

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

**Instrument :**
MSVOA_X
**ClientSampleId :**
SS-MW1-11.5ME

Tgt Ion:168 Resp: 61392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 71.5 | 54.9 | 82.3 |

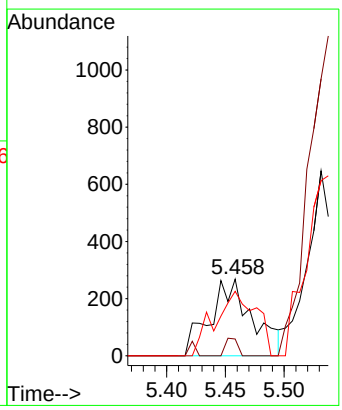


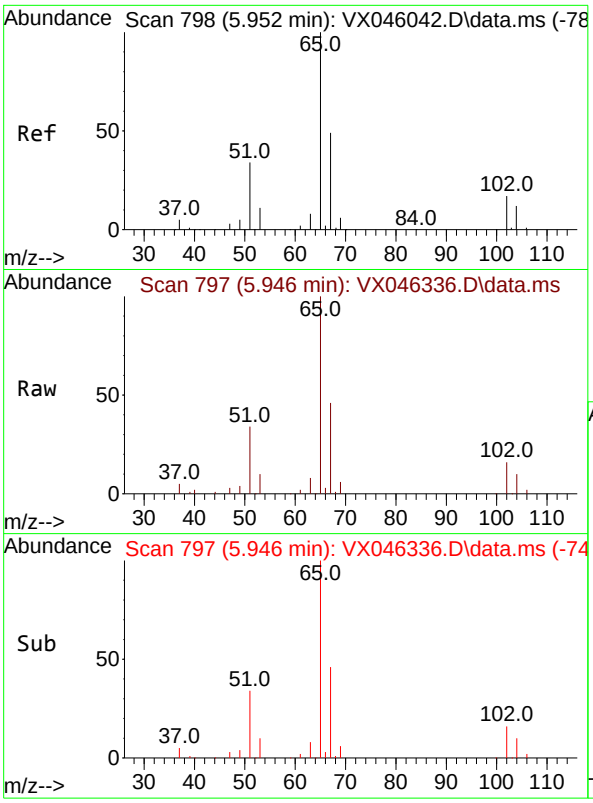




#31
Cyclohexane
Concen: 0.496 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.006 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

Tgt Ion: 56 Resp: 676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 22.0 | 24.4 | 36.6# |
| 84 | 84.3 | 66.9 | 100.3 |



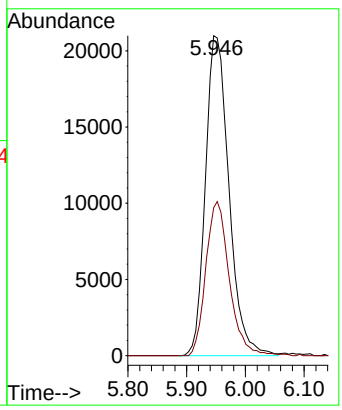


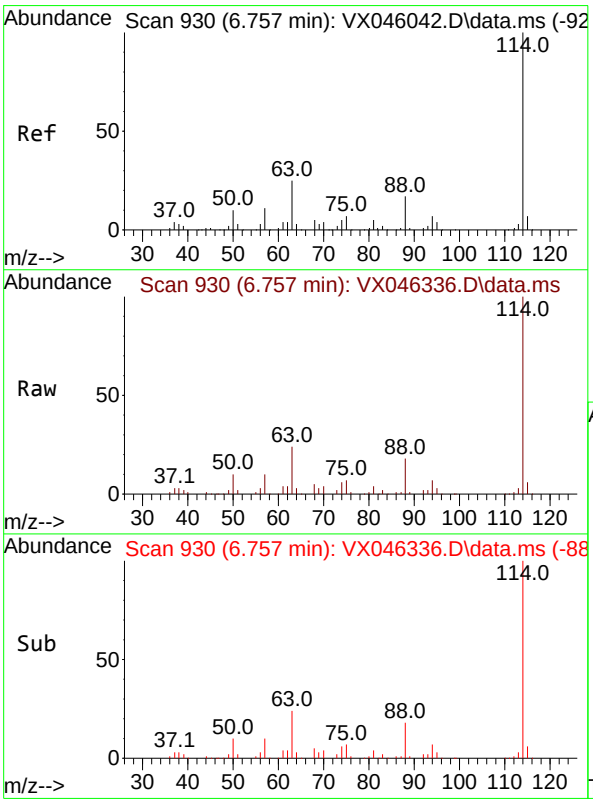

#33
1,2-Dichloroethane-d4
Concen: 50.992 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

**Instrument :**
MSVOA_X
**ClientSampleId :**
SS-MW1-11.5ME

Tgt Ion: 65 Resp: 58363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.2 | 0.0 | 99.0 |

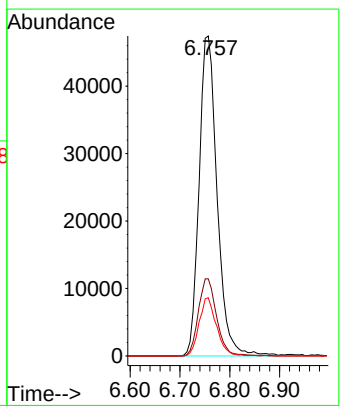


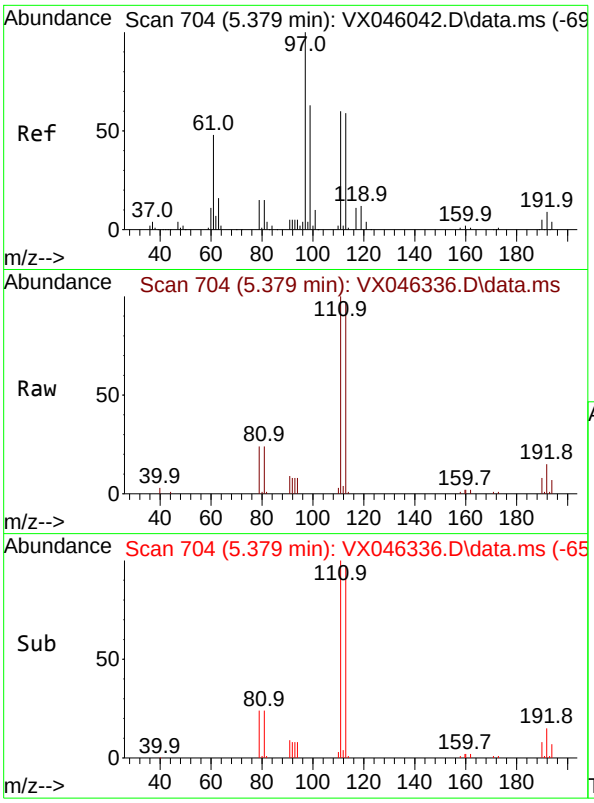




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

Tgt Ion:114 Resp: 119098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 24.1 | 0.0 | 49.2 |
| 88 | 18.2 | 0.0 | 33.6 |



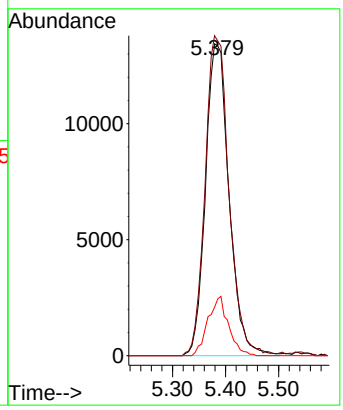


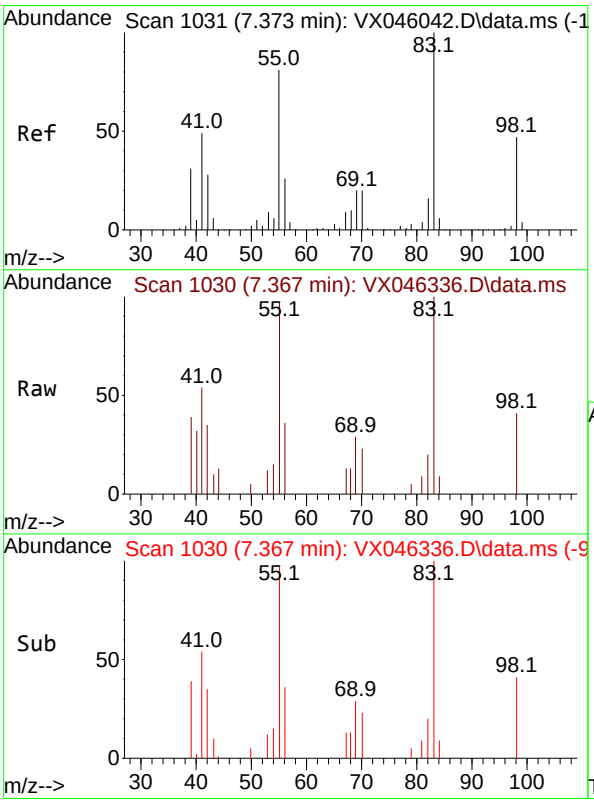

#35
Dibromofluoromethane
Concen: 48.389 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

**Instrument :**
MSVOA_X
**ClientSampleId :**
SS-MW1-11.5ME

Tgt Ion:113 Resp: 41500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.2 | 83.1 | 124.7 |
| 192 | 16.6 | 13.3 | 19.9 |

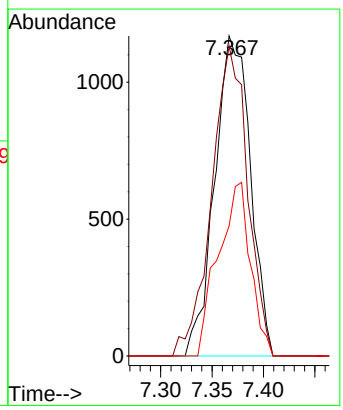


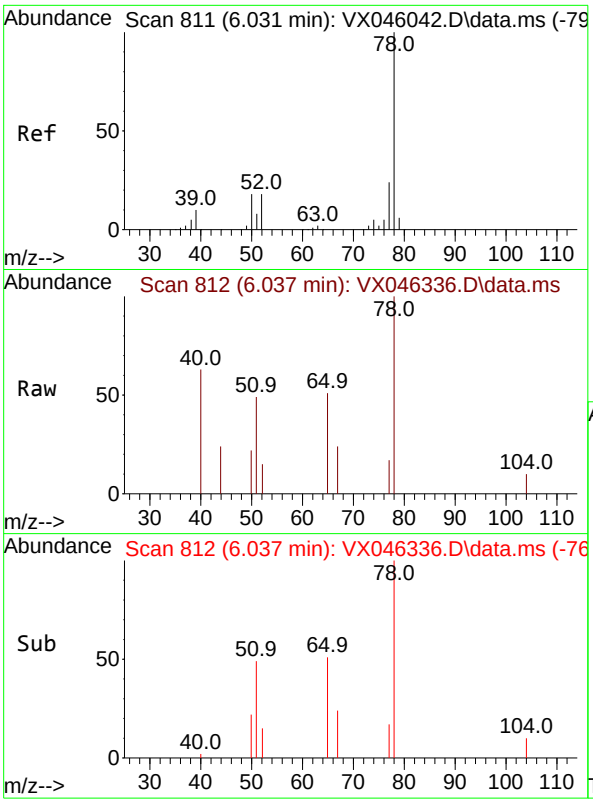




#39
Methylcyclohexane
Concen: 1.903 ug/l
RT: 7.367 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

Tgt Ion: 83 Resp: 2823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 96.8 | 64.7 | 97.1 |
| 98 | 40.6 | 37.4 | 56.2 |



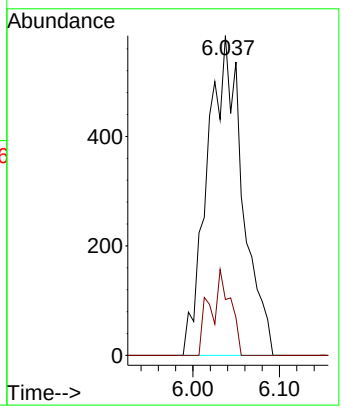


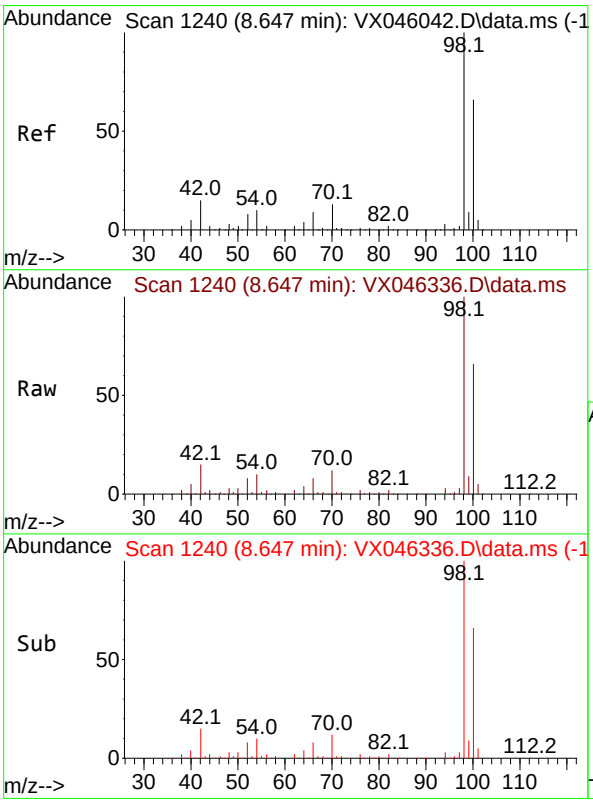

#40
Benzene
Concen: 0.489 ug/l
RT: 6.037 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

**Instrument :**
MSVOA_X
**ClientSampleId :**
SS-MW1-11.5ME

Tgt Ion: 78 Resp: 1650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 17.5 | 19.0 | 28.4# |

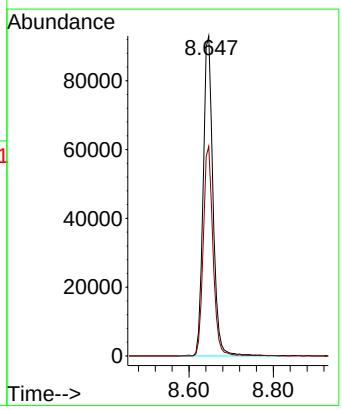


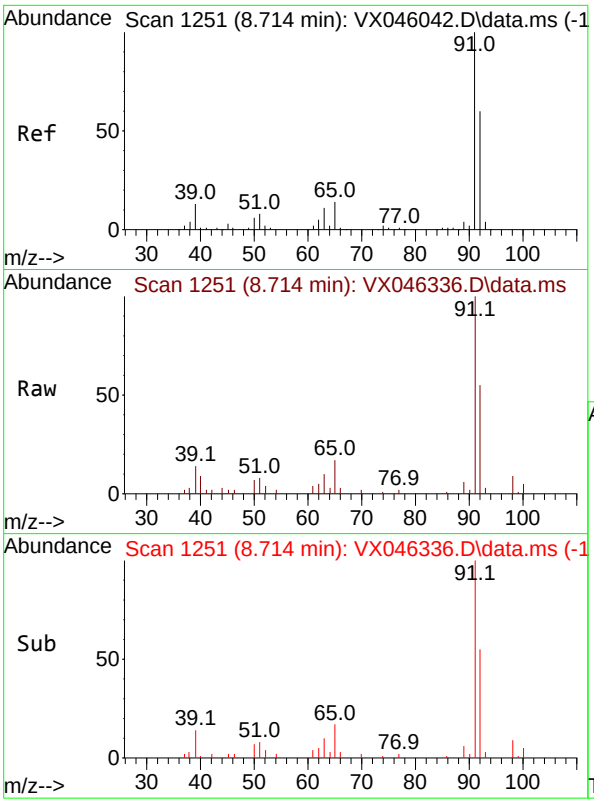




#50
Toluene-d8
Concen: 50.745 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

Tgt Ion: 98 Resp: 150629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 53.5 | 80.3 |



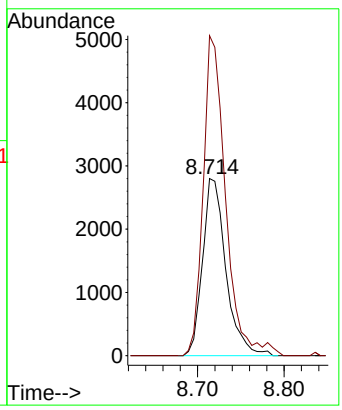


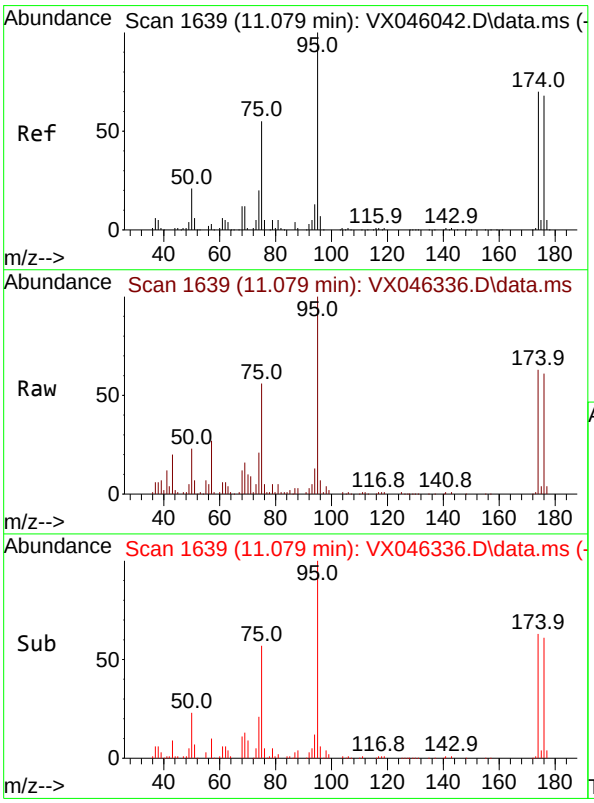

#52
Toluene
Concen: 2.534 ug/l
RT: 8.714 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

**Instrument :**
MSVOA_X
**ClientSampleId :**
SS-MW1-11.5ME

Tgt Ion: 92 Resp: 5245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.4 | 136.6 | 205.0 |

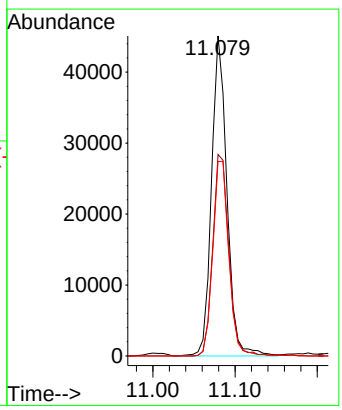


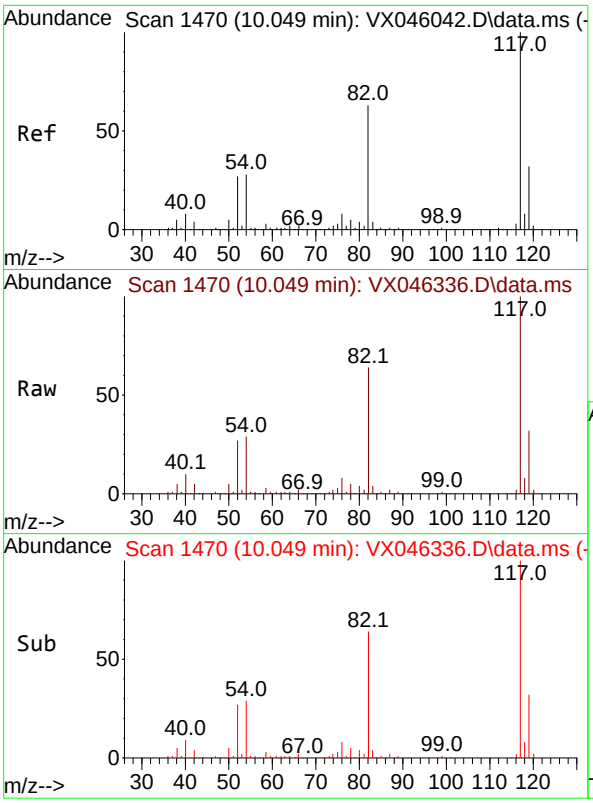




#62
4-Bromofluorobenzene
Concen: 51.479 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

Tgt Ion: 95 Resp: 58615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.0 | 0.0 | 135.8 |
| 176 | 63.5 | 0.0 | 131.4 |



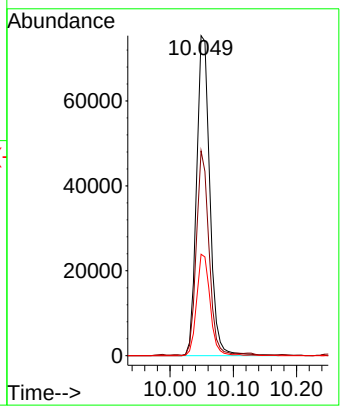


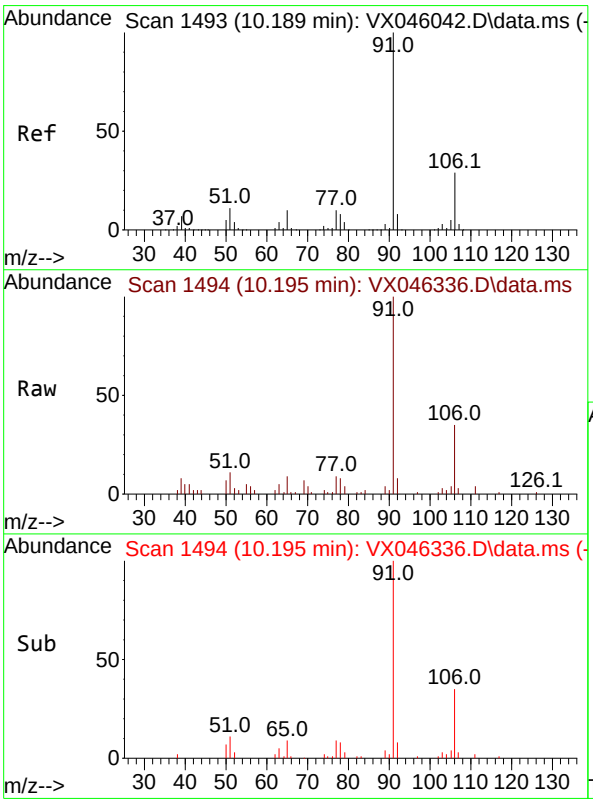

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

**Instrument :**
MSVOA_X
**ClientSampleId :**
SS-MW1-11.5ME

Tgt Ion:117 Resp: 110366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 63.7 | 50.6 | 76.0 |
| 119 | 31.7 | 25.8 | 38.6 |

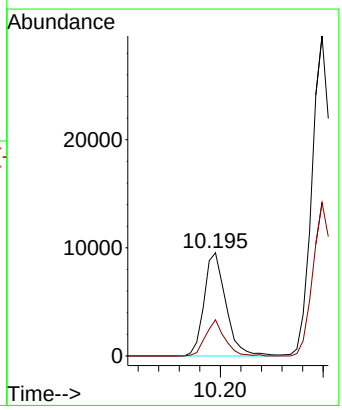


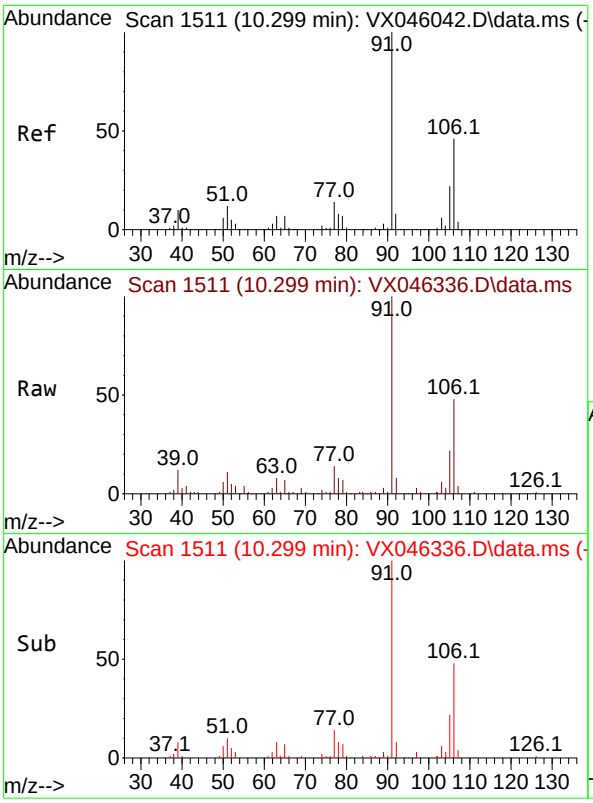




#67
Ethyl Benzene
Concen: 3.308 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

Tgt Ion: 91 Resp: 14088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 35.0 | 23.4 | 35.2 |



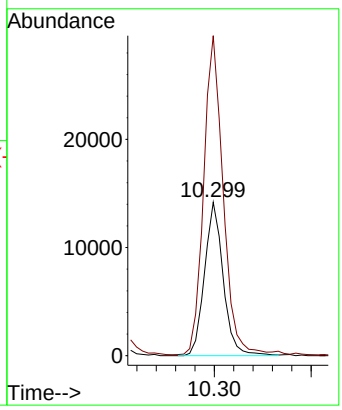


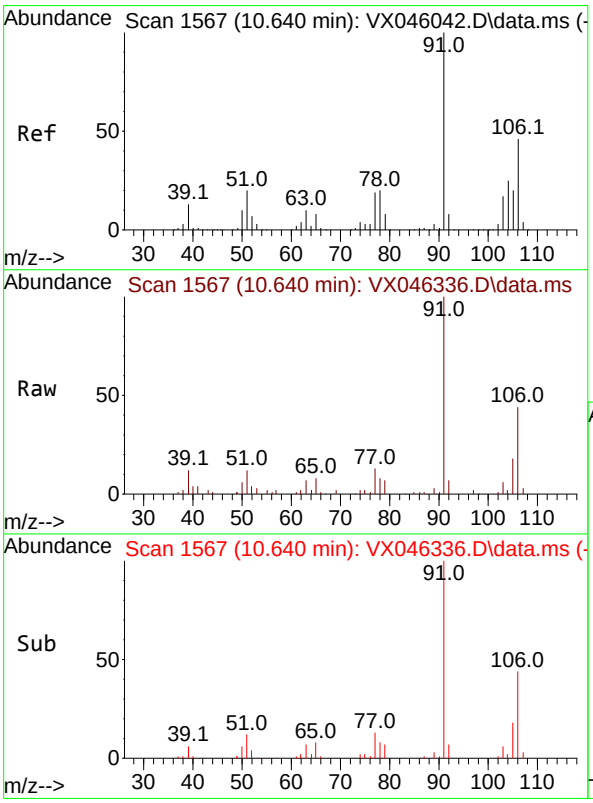

#68
m/p-Xylenes
Concen: 12.258 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

**Instrument :**
MSVOA_X
**ClientSampleId :**
SS-MW1-11.5ME

Tgt Ion:106 Resp: 19090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.2 | 171.2 | 256.8 |

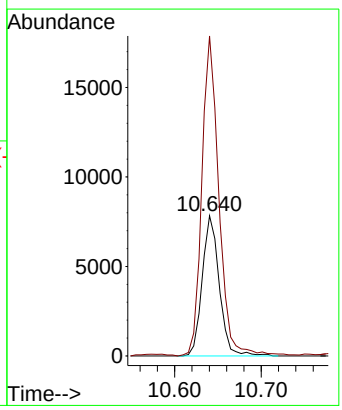


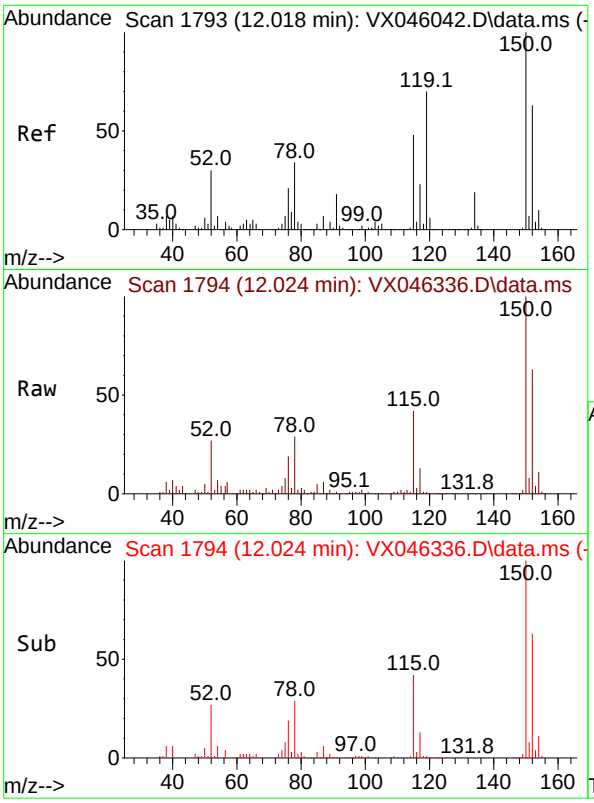




#69
o-Xylene
Concen: 7.064 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

Tgt Ion:106 Resp: 10725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 228.3 | 112.7 | 338.1 |



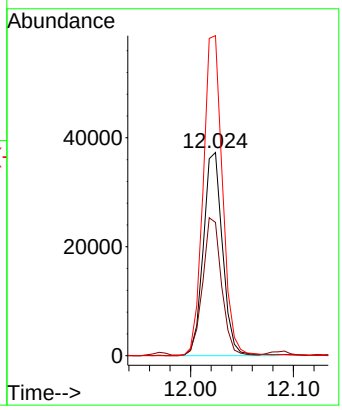


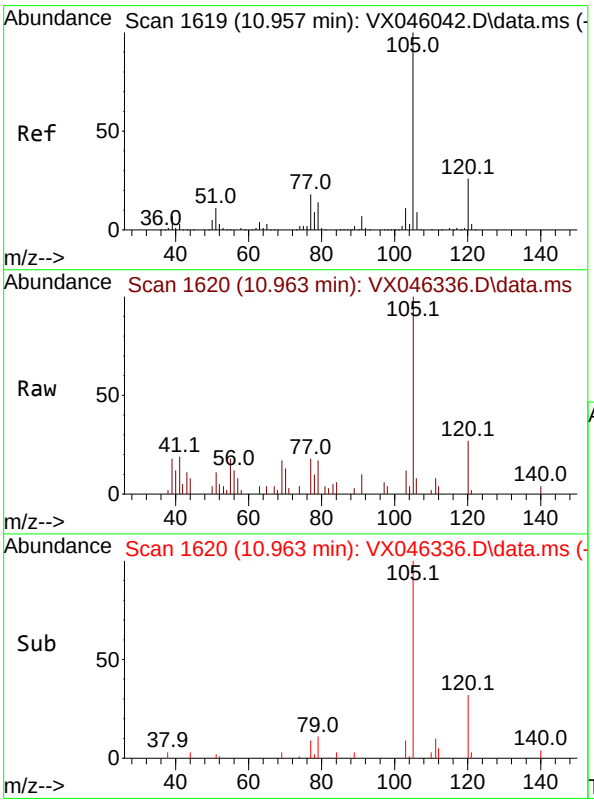

#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

**Instrument :**
MSVOA_X
**ClientSampleId :**
SS-MW1-11.5ME

Tgt Ion:152 Resp: 48680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 66.1 | 46.9 | 140.7 |
| 150 | 158.9 | 0.0 | 351.0 |

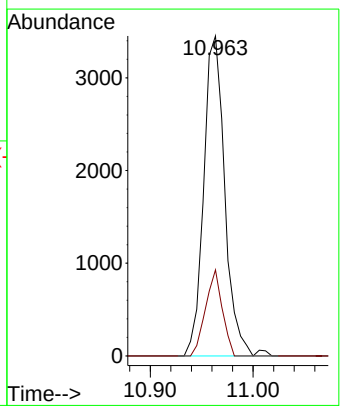


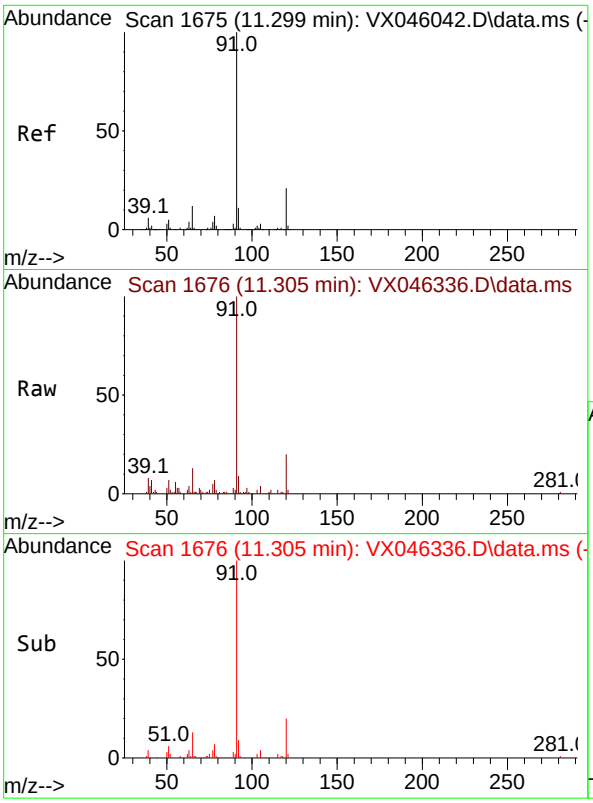




#73
Isopropylbenzene
Concen: 1.303 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

Tgt Ion:105 Resp: 4939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 21.4 | 12.8 | 38.4 |



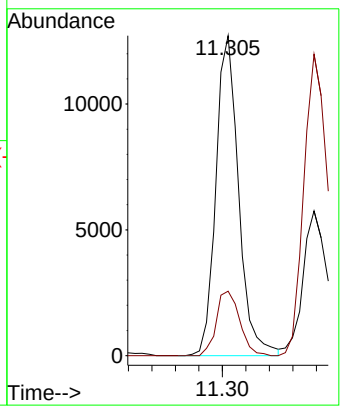


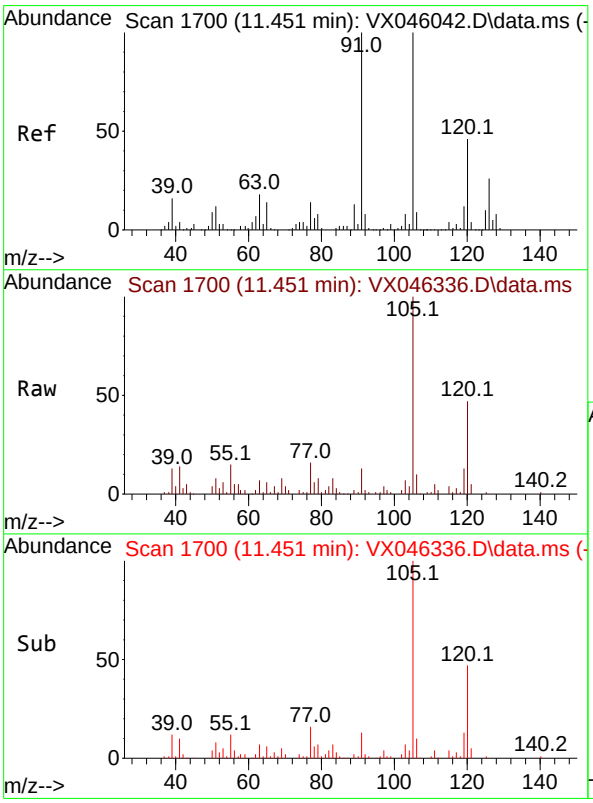

#78
n-propylbenzene
Concen: 3.882 ug/l
RT: 11.305 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

**Instrument :**
MSVOA_X
**ClientSampleId :**
SS-MW1-11.5ME

Tgt Ion: 91 Resp: 17106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 20.7 | 10.8 | 32.4 |

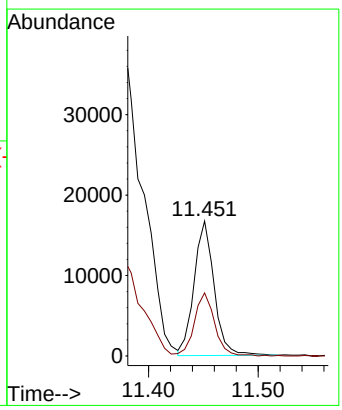


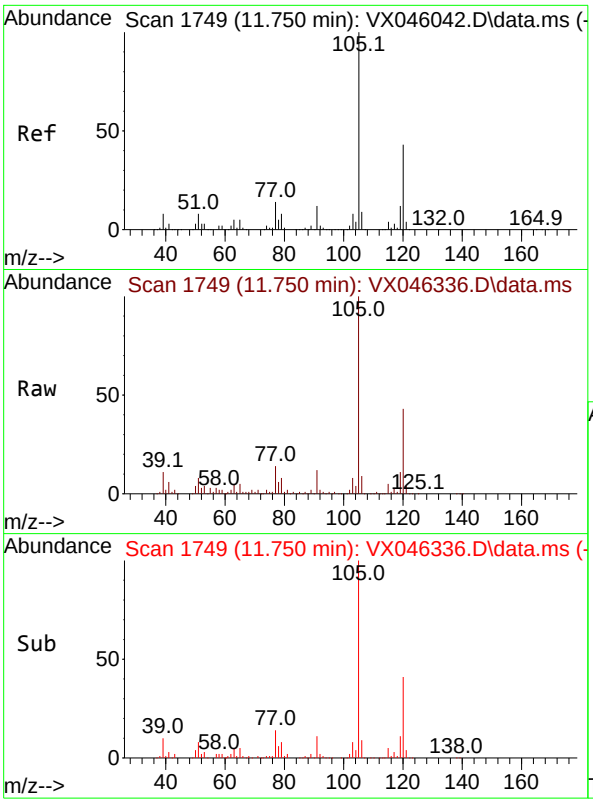




#80
1,3,5-Trimethylbenzene
Concen: 6.725 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

Tgt Ion:105 Resp: 21294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.7 | 23.1 | 69.2 |



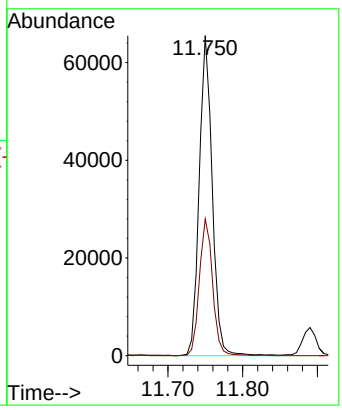


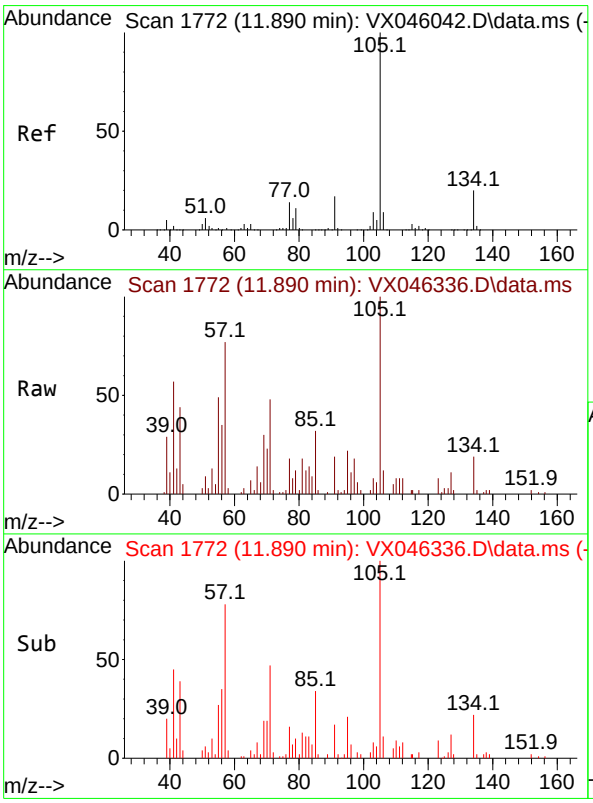

#84
1,2,4-Trimethylbenzene
Concen: 24.671 ug/l
RT: 11.750 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

**Instrument :**
MSVOA_X
**ClientSampleId :**
SS-MW1-11.5ME

Tgt Ion:105 Resp: 79105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.5 | 21.2 | 63.6 |

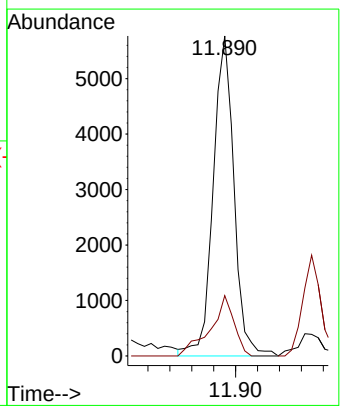


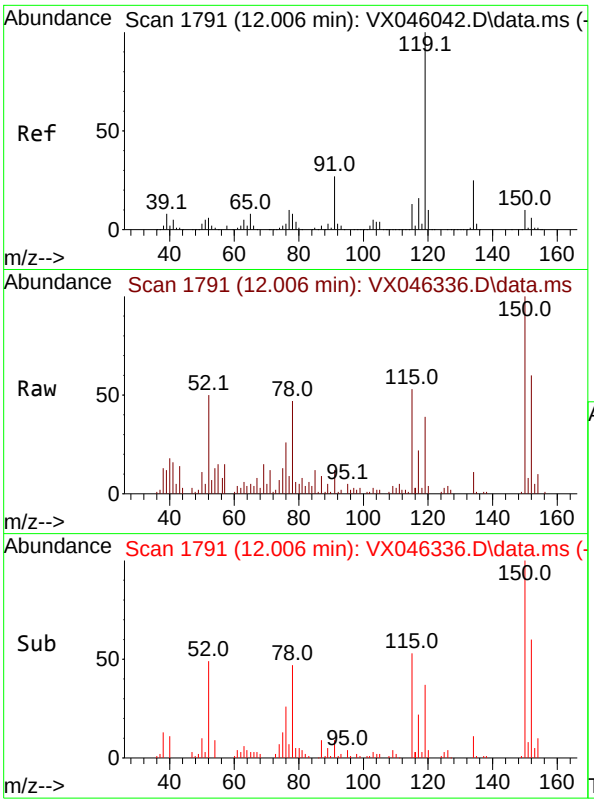




#85
sec-Butylbenzene
Concen: 1.943 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

Tgt Ion:105 Resp: 7610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.6 | 9.7 | 29.1 |



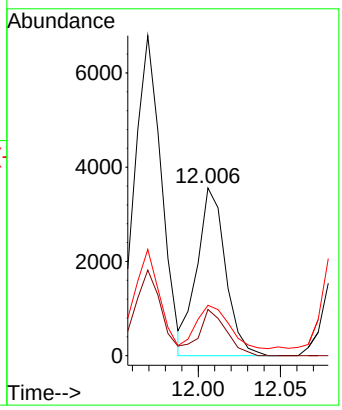


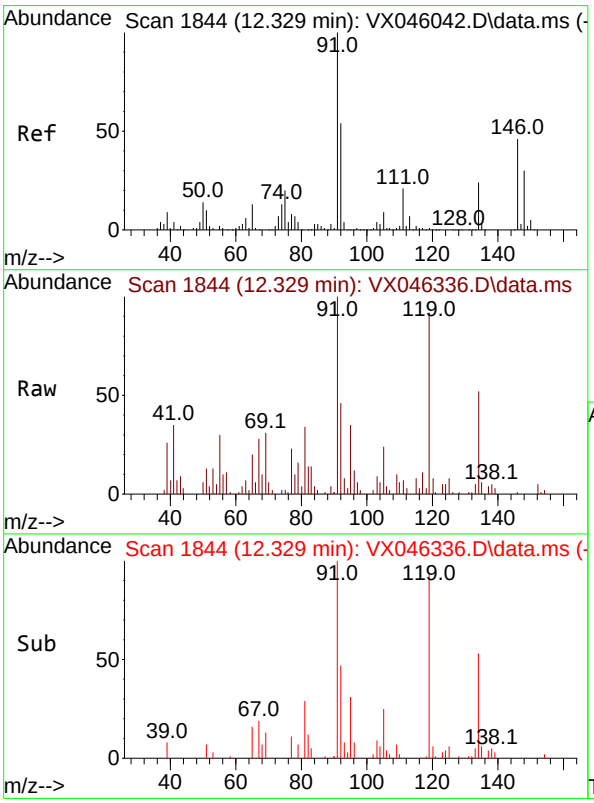

#86
p-Isopropyltoluene
Concen: 1.330 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

**Instrument :**
MSVOA_X
**ClientSampleId :**
SS-MW1-11.5ME

Tgt Ion:119 Resp: 4298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 12.5 | 37.5 |
| 91 | 29.0 | 13.8 | 41.4 |

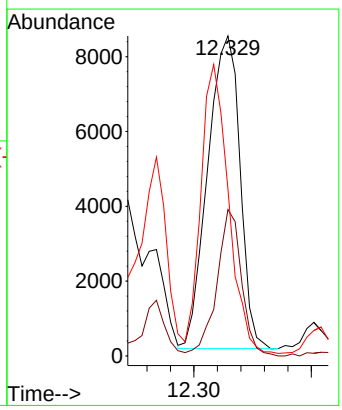



#89
n-Butylbenzene
Concen: 5.627 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: VX046336.D
Acq: 23 May 2025 11:46

Tgt Ion: 91 Resp: 15953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 35.9 | 26.9 | 80.7 |
| 134 | 79.2 | 11.8 | 35.3# |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 05/15/25 |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | 05/16/25 |
| Client Sample ID: | FB-05152025 | SDG No.: | Q2075 |
| Lab Sample ID: | Q2075-07 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046292.D | 1 | | 05/21/25 13:09 | VX052125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 108-88-3 | Toluene | 1.00 | U | 0.14 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 1.00 | U | 0.13 | 1.00 | ug/L |
| 1330-20-7 | Total Xylenes | 3.00 | U | 0.36 | 3.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 1.00 | U | 0.12 | 1.00 | ug/L |
| 103-65-1 | n-propylbenzene | 1.00 | U | 0.13 | 1.00 | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 98-06-6 | tert-Butylbenzene | 1.00 | U | 0.14 | 1.00 | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.00 | U | 0.14 | 1.00 | ug/L |
| 135-98-8 | sec-Butylbenzene | 1.00 | U | 0.13 | 1.00 | ug/L |
| 99-87-6 | p-Isopropyltoluene | 1.00 | U | 0.13 | 1.00 | ug/L |
| 104-51-8 | n-Butylbenzene | 1.00 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.2 | | 74 - 125 | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.3 | | 75 - 124 | 99% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.7 | | 86 - 113 | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.0 | | 77 - 121 | 104% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 63600 | 5.55 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 127000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 121000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 52600 | 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\VX052125\
Data File : VX046292.D
Acq On : 21 May 2025 13:09
Operator : JC/MD
Sample : Q2075-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
FB-05152025

Quant Time: May 22 01:48:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

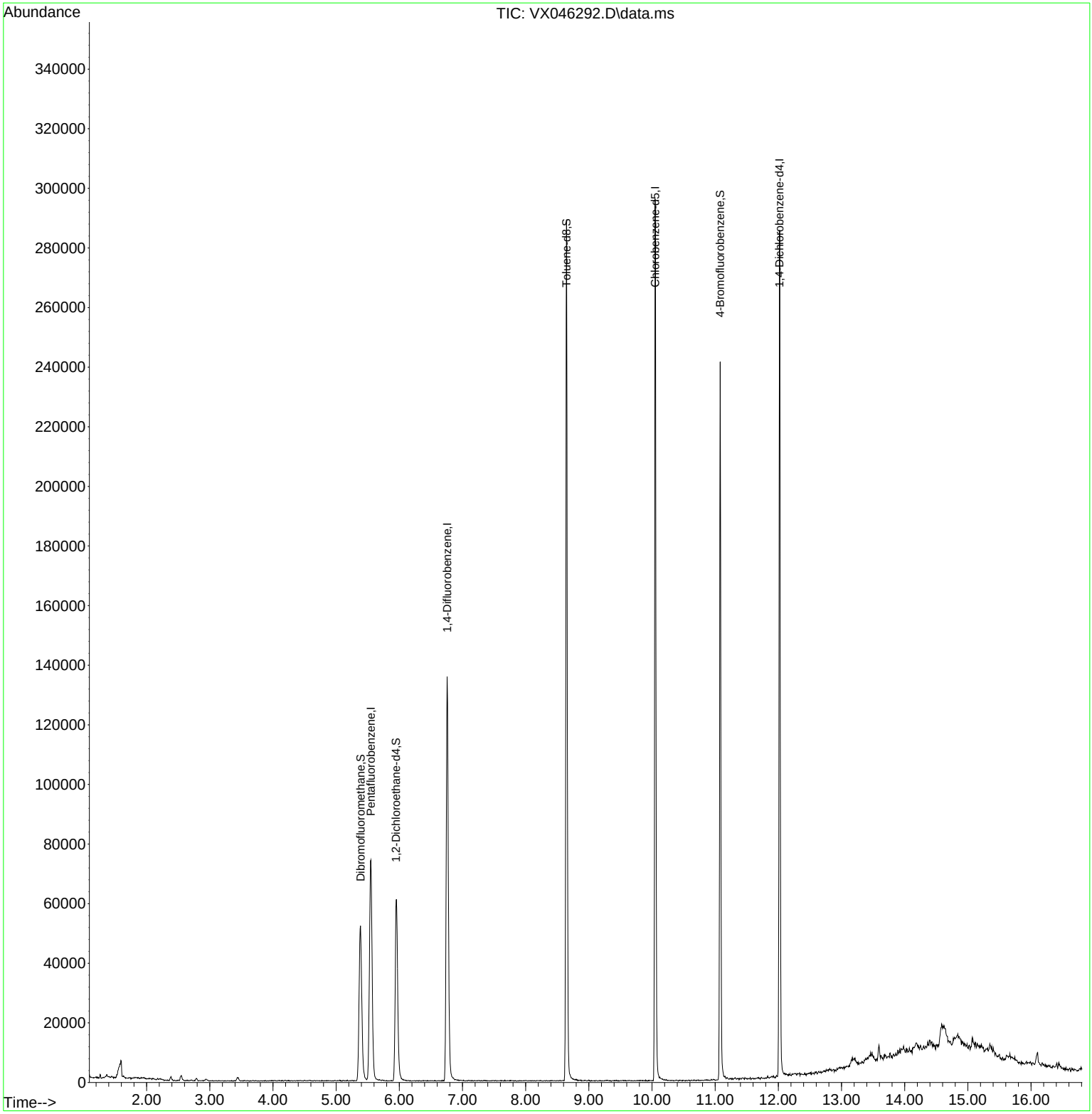
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.550 | 168 | 63566 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 126684 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 120601 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 52644 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 63080 | 53.229 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 106.460% | | | |
| 35) Dibromofluoromethane | 5.385 | 113 | 44990 | 49.317 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 98.640% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 159992 | 50.671 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 101.340% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 63027 | 52.039 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 104.080% | | | |
| Target Compounds | | | | | | Qvalue |

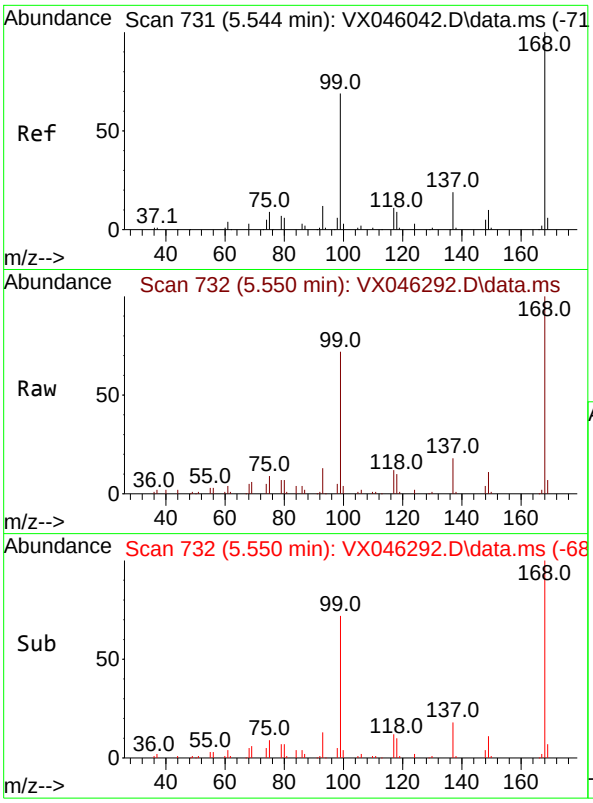
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046292.D
Acq On : 21 May 2025 13:09
Operator : JC/MD
Sample : Q2075-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
FB-05152025

Quant Time: May 22 01:48:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



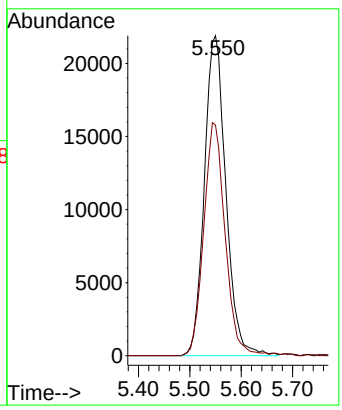


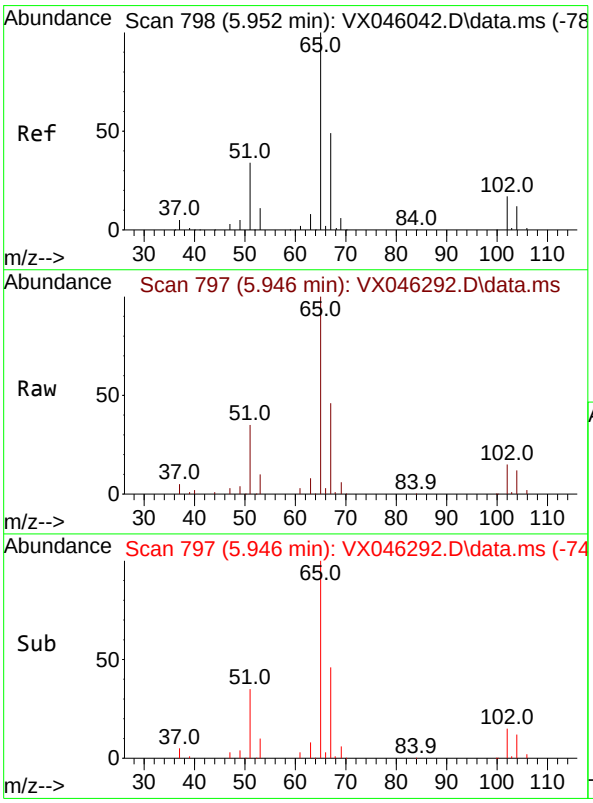

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046292.D
Acq: 21 May 2025 13:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
FB-05152025

Tgt Ion:168 Resp: 63566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 72.1 | 54.9 | 82.3 |

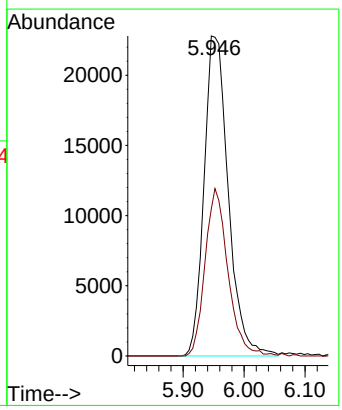


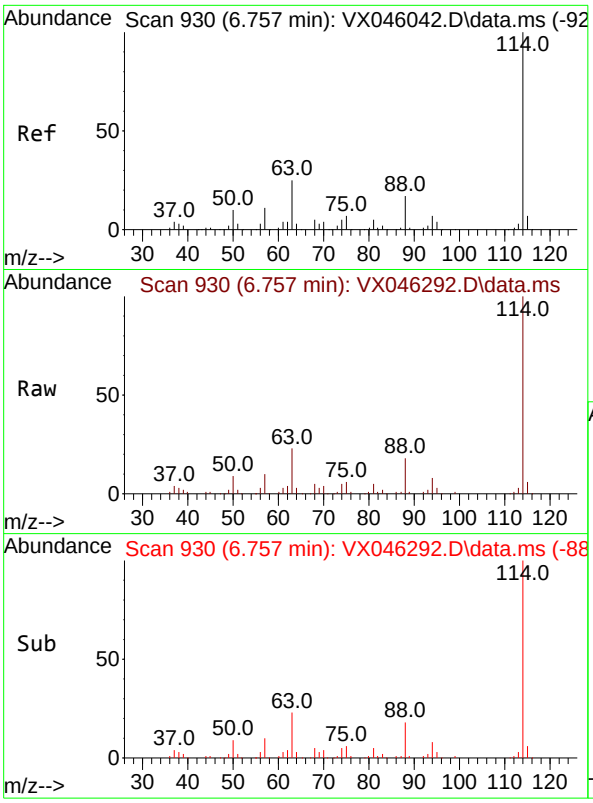




#33
1,2-Dichloroethane-d4
Concen: 53.229 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX046292.D
Acq: 21 May 2025 13:09

Tgt Ion: 65 Resp: 63080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.4 | 0.0 | 99.0 |



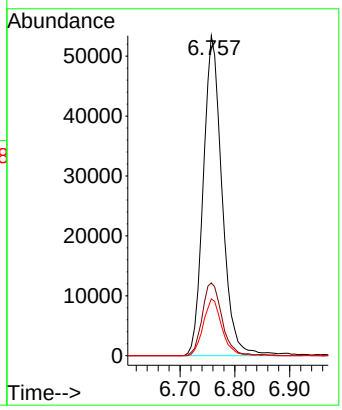


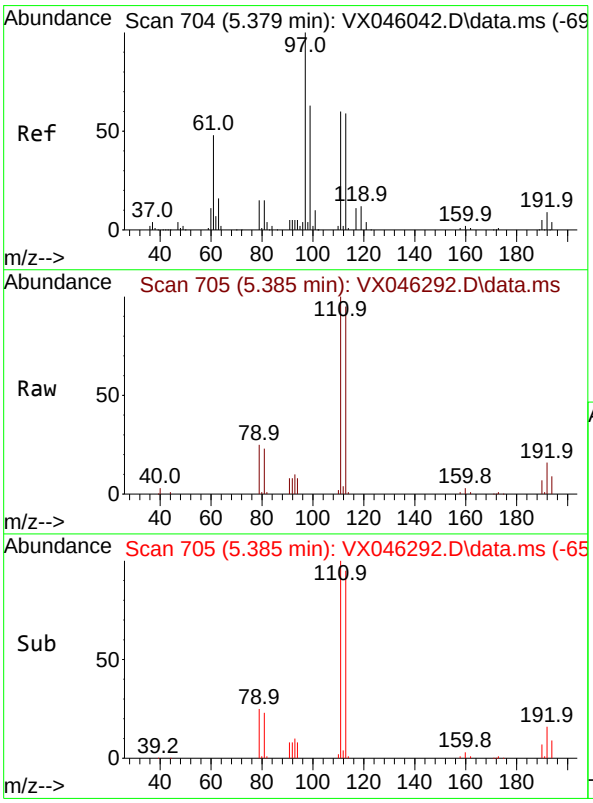

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX046292.D
Acq: 21 May 2025 13:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
FB-05152025

Tgt Ion:114 Resp: 126684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.7 | 0.0 | 49.2 |
| 88 | 17.7 | 0.0 | 33.6 |

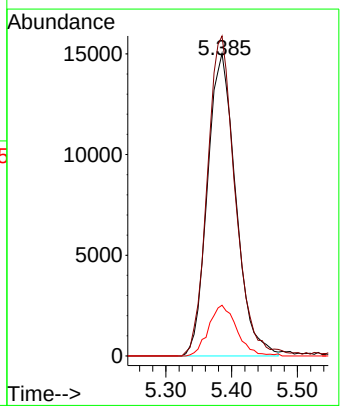


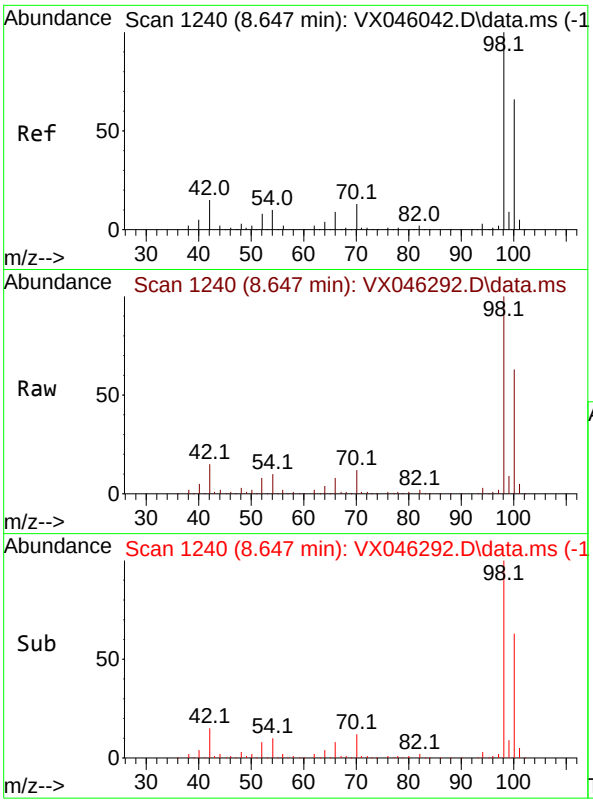




#35
Dibromofluoromethane
Concen: 49.317 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX046292.D
Acq: 21 May 2025 13:09

Tgt Ion:113 Resp: 44990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.8 | 83.1 | 124.7 |
| 192 | 16.7 | 13.3 | 19.9 |



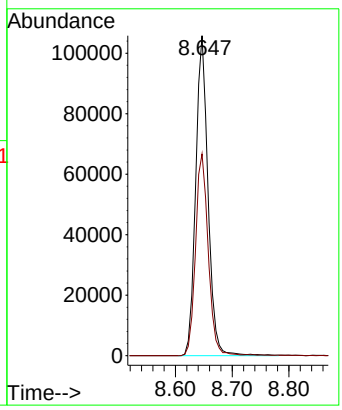


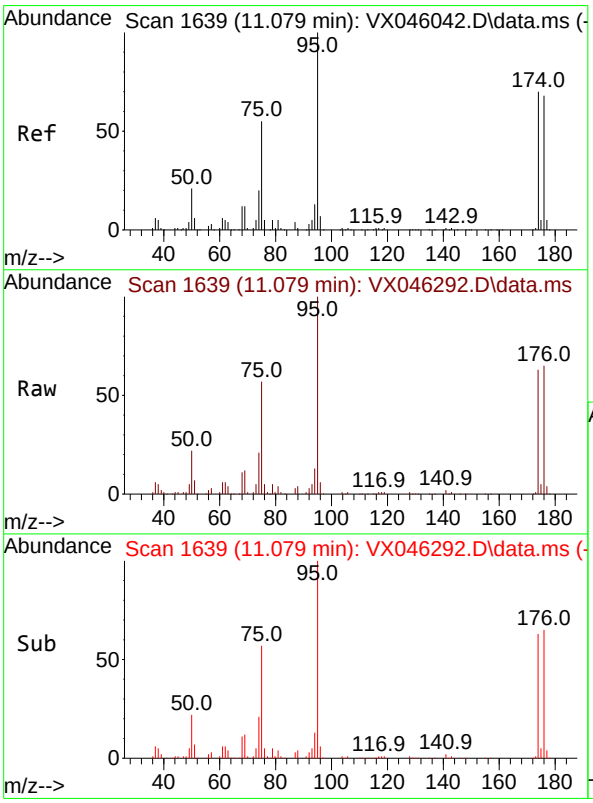

#50
Toluene-d8
Concen: 50.671 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046292.D
Acq: 21 May 2025 13:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
FB-05152025

Tgt Ion: 98 Resp: 159992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 53.5 | 80.3 |

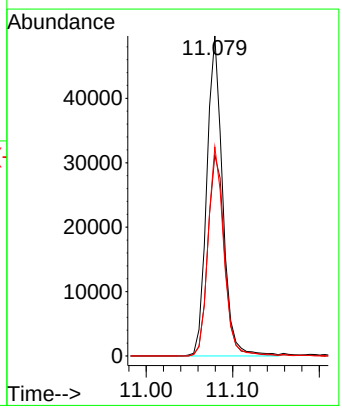


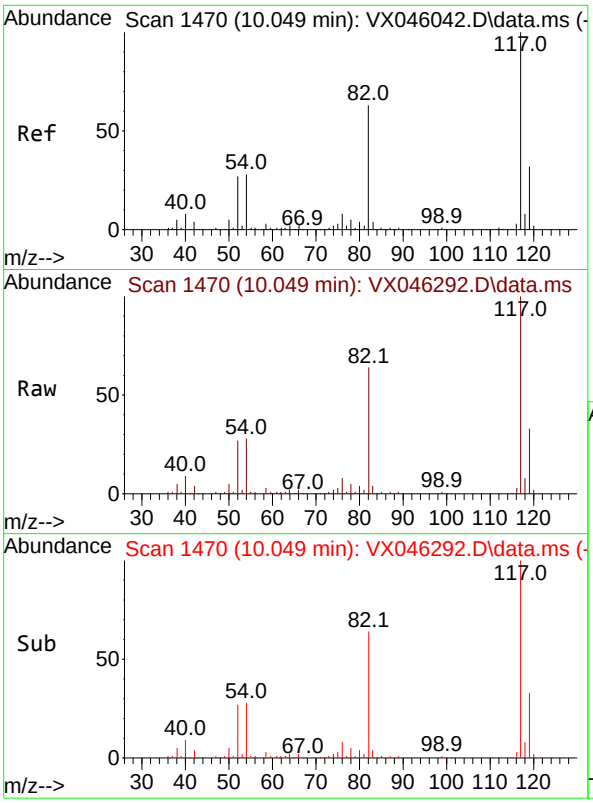




#62
4-Bromofluorobenzene
Concen: 52.039 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046292.D
Acq: 21 May 2025 13:09

Tgt Ion: 95 Resp: 63027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.9 | 0.0 | 135.8 |
| 176 | 65.5 | 0.0 | 131.4 |



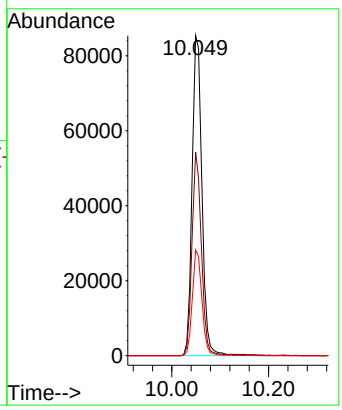


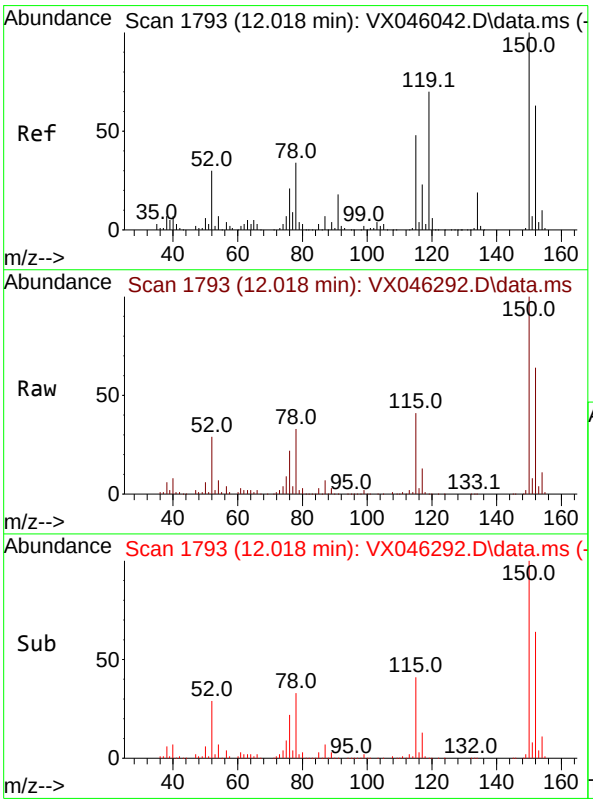

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046292.D
Acq: 21 May 2025 13:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
FB-05152025

Tgt Ion:117 Resp: 120601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 63.7 | 50.6 | 76.0 |
| 119 | 33.0 | 25.8 | 38.6 |

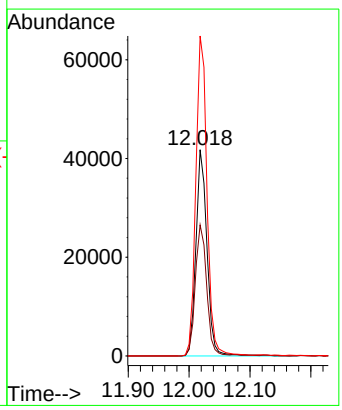



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046292.D
Acq: 21 May 2025 13:09

Tgt Ion:152 Resp: 52644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.9 | 46.9 | 140.7 |
| 150 | 156.6 | 0.0 | 351.0 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 05/16/25 |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | 05/16/25 |
| Client Sample ID: | FB-05162025 | SDG No.: | Q2075 |
| Lab Sample ID: | Q2075-08 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046293.D | 1 | | 05/21/25 13:32 | VX052125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 108-88-3 | Toluene | 1.00 | U | 0.14 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 1.00 | U | 0.13 | 1.00 | ug/L |
| 1330-20-7 | Total Xylenes | 3.00 | U | 0.36 | 3.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 1.00 | U | 0.12 | 1.00 | ug/L |
| 103-65-1 | n-propylbenzene | 1.00 | U | 0.13 | 1.00 | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 98-06-6 | tert-Butylbenzene | 1.00 | U | 0.14 | 1.00 | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.00 | U | 0.14 | 1.00 | ug/L |
| 135-98-8 | sec-Butylbenzene | 1.00 | U | 0.13 | 1.00 | ug/L |
| 99-87-6 | p-Isopropyltoluene | 1.00 | U | 0.13 | 1.00 | ug/L |
| 104-51-8 | n-Butylbenzene | 1.00 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.2 | | 74 - 125 | 104% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.1 | | 75 - 124 | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.2 | | 86 - 113 | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.7 | | 77 - 121 | 103% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 68000 | 5.55 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 135000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 128000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 56000 | 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\VX052125\
Data File : VX046293.D
Acq On : 21 May 2025 13:32
Operator : JC/MD
Sample : Q2075-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
FB-05162025

Quant Time: May 22 01:48:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

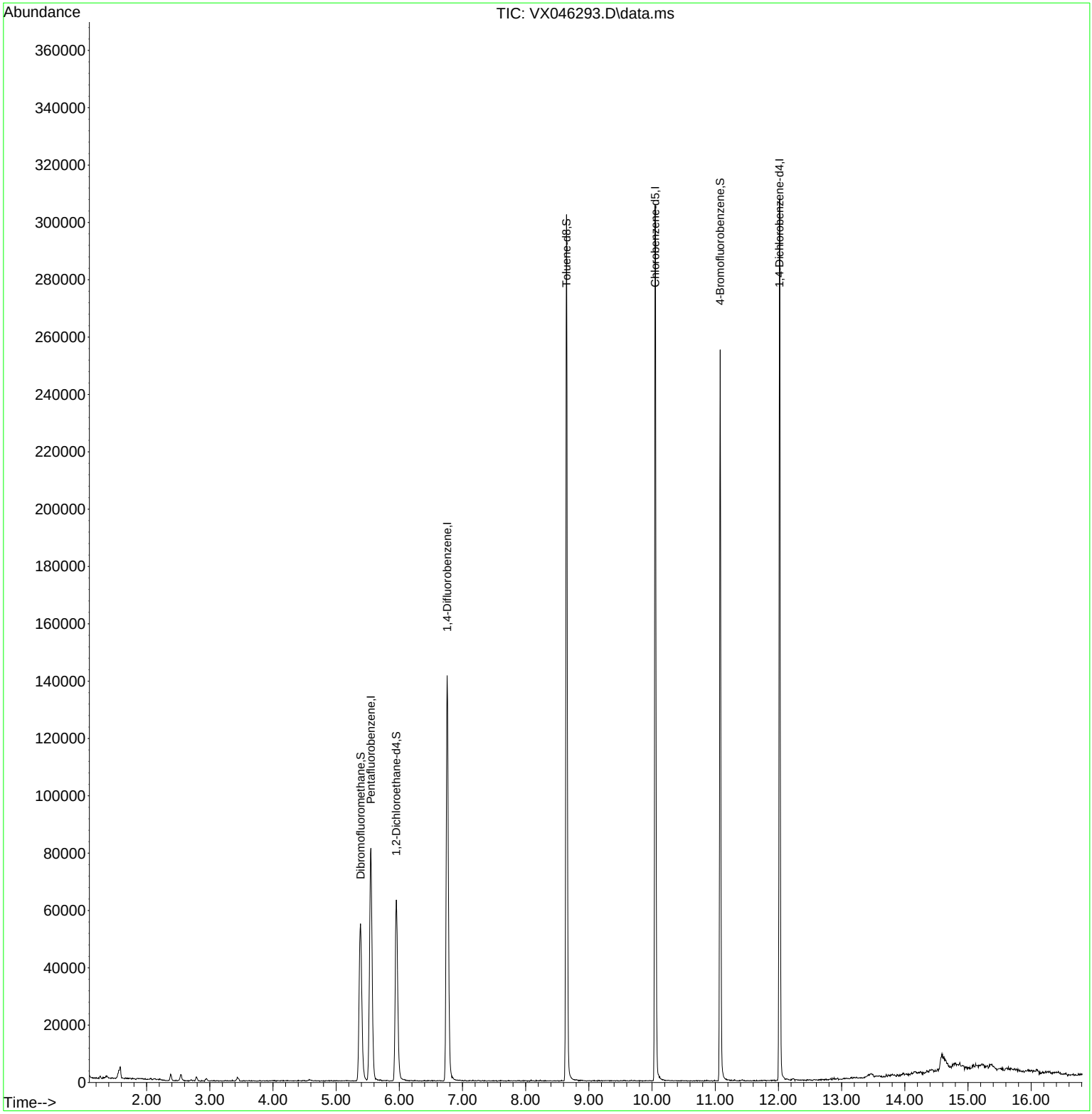
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.550 | 168 | 67975 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 135035 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 128288 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 55957 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 66150 | 52.199 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 104.400% | | | |
| 35) Dibromofluoromethane | 5.385 | 113 | 48762 | 50.146 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 100.300% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 169067 | 50.234 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 100.460% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 66765 | 51.716 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 103.440% | | | |
| Target Compounds | | | | | | Qvalue |

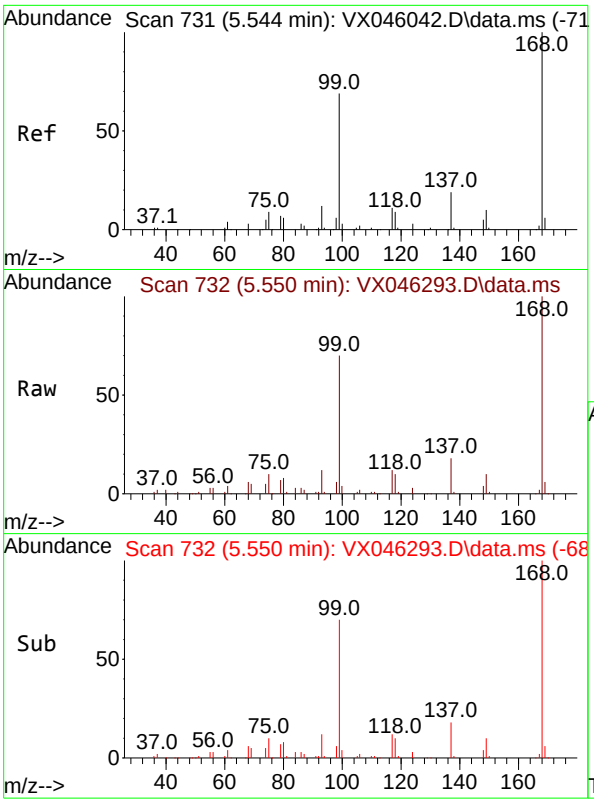
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046293.D
Acq On : 21 May 2025 13:32
Operator : JC/MD
Sample : Q2075-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
FB-05162025

Quant Time: May 22 01:48:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



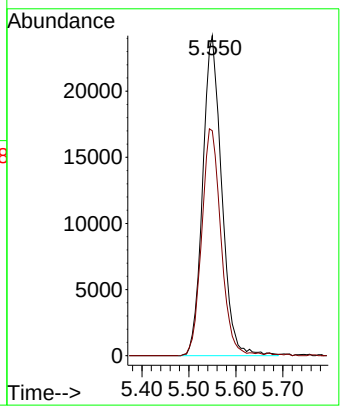


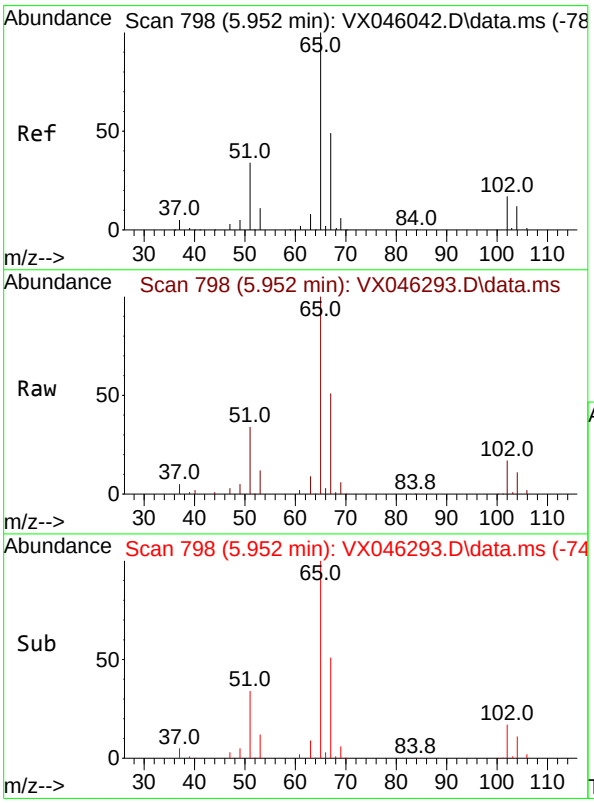

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046293.D
Acq: 21 May 2025 13:32

**Instrument :**
MSVOA_X
**ClientSampleId :**
FB-05162025

Tgt Ion:168 Resp: 67975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 70.3 | 54.9 | 82.3 |

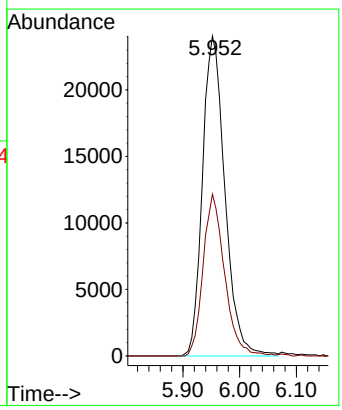


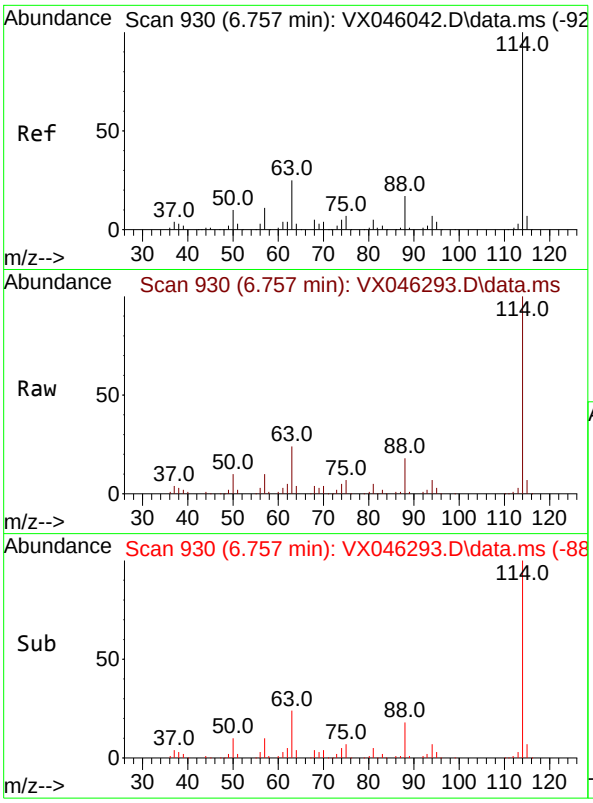




#33
1,2-Dichloroethane-d4
Concen: 52.199 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX046293.D
Acq: 21 May 2025 13:32

Tgt Ion: 65 Resp: 66150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.3 | 0.0 | 99.0 |



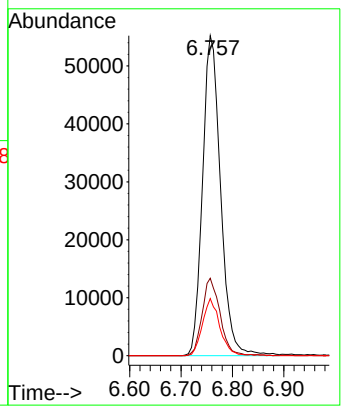


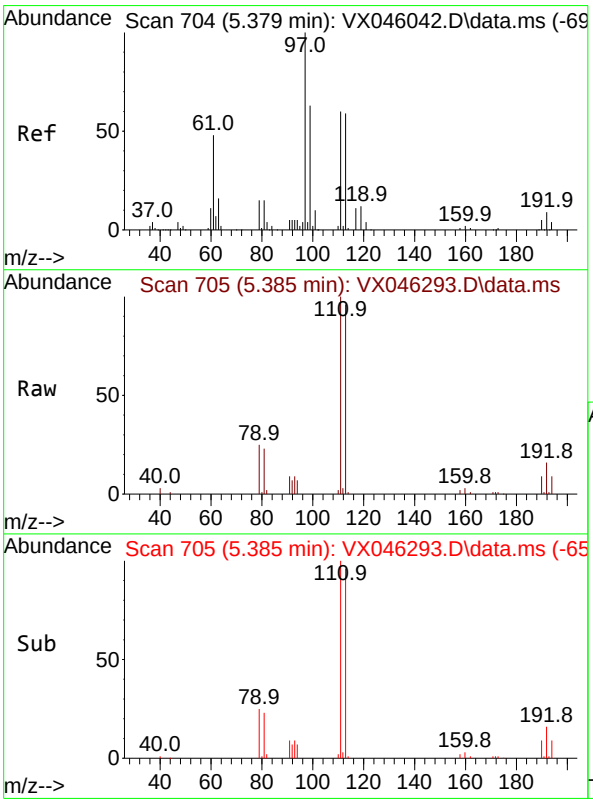

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046293.D
Acq: 21 May 2025 13:32

**Instrument :**
MSVOA_X
**ClientSampleId :**
FB-05162025

Tgt Ion:114 Resp: 135035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 24.2 | 0.0 | 49.2 |
| 88 | 17.8 | 0.0 | 33.6 |

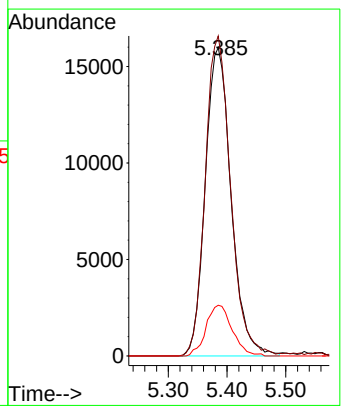


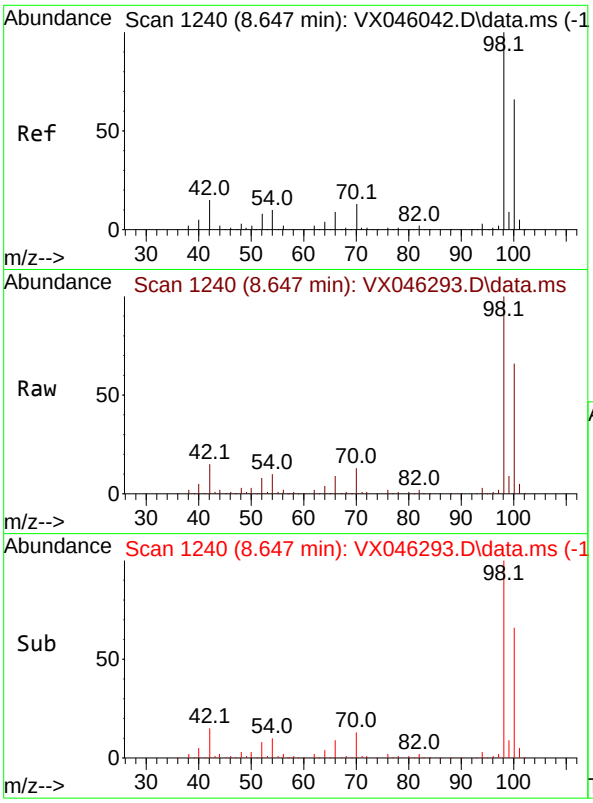




#35
Dibromofluoromethane
Concen: 50.146 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX046293.D
Acq: 21 May 2025 13:32

Tgt Ion:113 Resp: 48762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.1 | 83.1 | 124.7 |
| 192 | 16.6 | 13.3 | 19.9 |



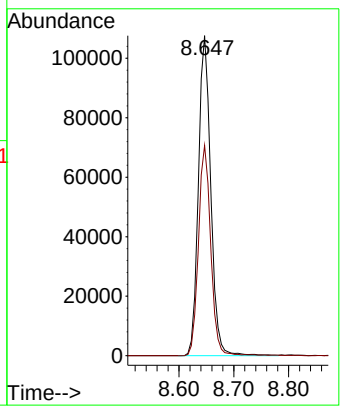


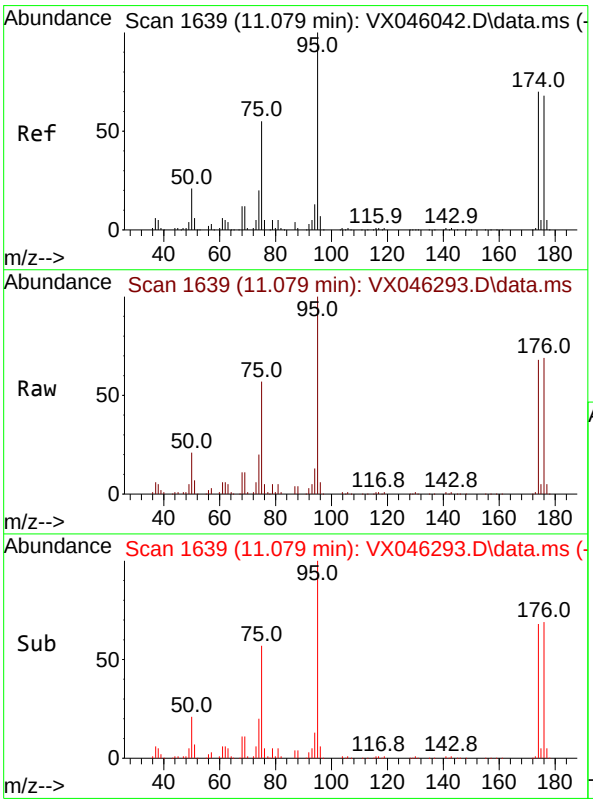

#50
Toluene-d8
Concen: 50.234 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046293.D
Acq: 21 May 2025 13:32

**Instrument :**
MSVOA_X
**ClientSampleId :**
FB-05162025

Tgt Ion: 98 Resp: 169067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 53.5 | 80.3 |

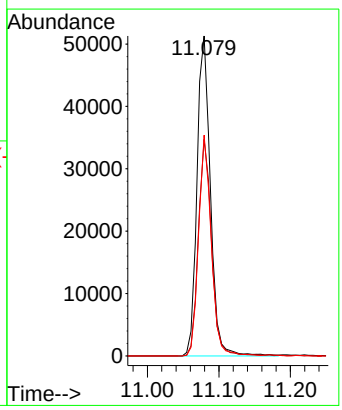


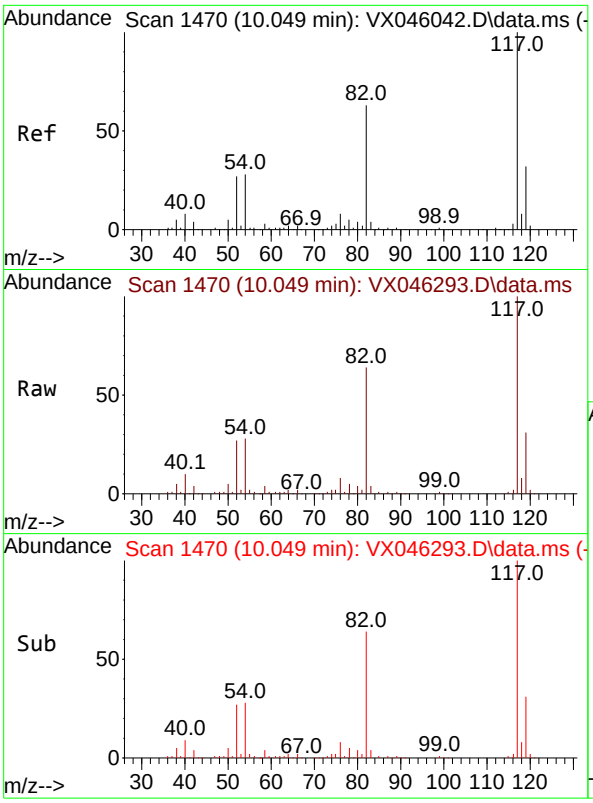




#62
4-Bromofluorobenzene
Concen: 51.716 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046293.D
Acq: 21 May 2025 13:32

Tgt Ion: 95 Resp: 66765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.1 | 0.0 | 135.8 |
| 176 | 65.1 | 0.0 | 131.4 |



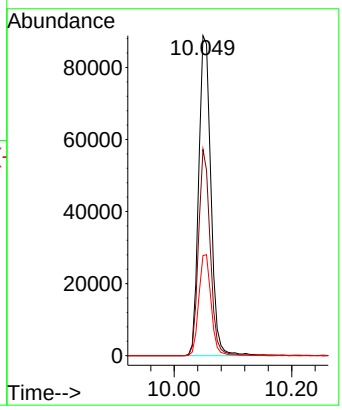


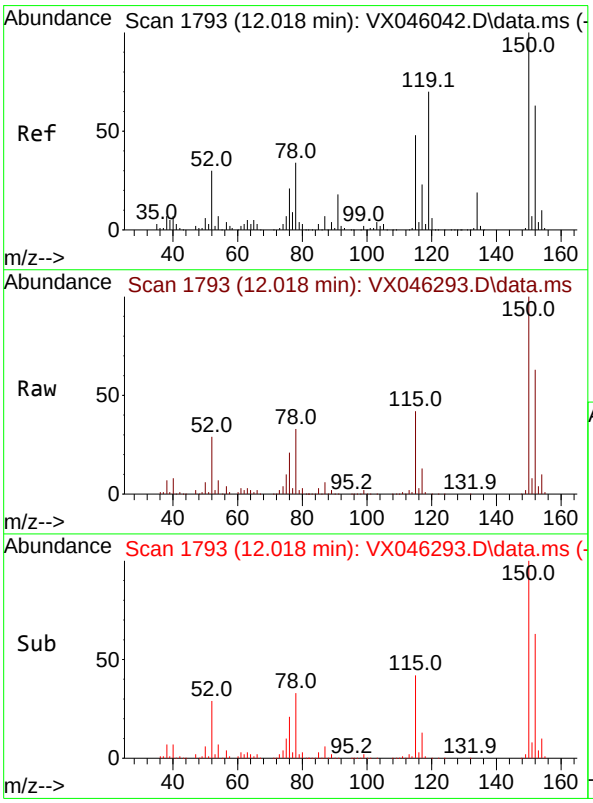

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046293.D
Acq: 21 May 2025 13:32

**Instrument :**
MSVOA_X
**ClientSampleId :**
FB-05162025

Tgt Ion:117 Resp: 128288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.4 | 50.6 | 76.0 |
| 119 | 31.3 | 25.8 | 38.6 |

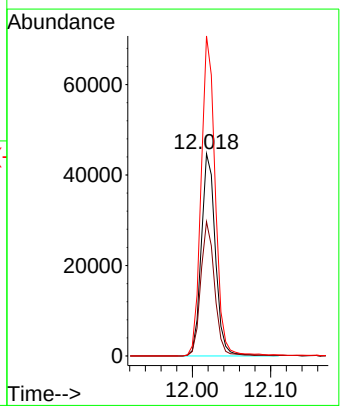



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046293.D
Acq: 21 May 2025 13:32

Tgt Ion:152 Resp: 55957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.3 | 46.9 | 140.7 |
| 150 | 158.4 | 0.0 | 351.0 |



# CALIBRATION SUMMARY

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG No.: Q2075

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

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

LAB FILE ID: RRF020 = VX046041.D RRF050 = VX046042.D RRF100 = VX046043.D
RRF150 = VX046044.D RRF005 = VX046046.D RRF001 = VX046047.D

| COMPOUND | RRF020 | RRF050 | RRF100 | RRF150 | RRF005 | RRF001 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Benzene | 1.426 | 1.474 | 1.441 | 1.477 | 1.337 | 1.348 | 1.417 | 4.3 |
| Toluene | 0.884 | 0.898 | 0.885 | 0.904 | 0.838 | 0.803 | 0.869 | 4.5 |
| Ethyl Benzene | 1.919 | 2.022 | 1.979 | 2.036 | 1.816 | 1.803 | 1.929 | 5.2 |
| m/p-Xylenes | 0.706 | 0.740 | 0.721 | 0.740 | 0.678 | 0.648 | 0.706 | 5.2 |
| o-Xylene | 0.688 | 0.727 | 0.706 | 0.726 | 0.639 | 0.642 | 0.688 | 5.7 |
| Isopropylbenzene | 3.843 | 4.130 | 3.876 | 4.156 | 3.562 | 3.789 | 3.893 | 5.7 |
| n-propylbenzene | 4.394 | 4.854 | 4.583 | 4.868 | 4.186 | 4.272 | 4.526 | 6.4 |
| 1,3,5-Trimethylbenzene | 3.275 | 3.488 | 3.255 | 3.405 | 3.053 | 3.036 | 3.252 | 5.6 |
| tert-Butylbenzene | 3.115 | 3.435 | 3.255 | 3.411 | 3.098 | 3.341 | 3.276 | 4.4 |
| 1,2,4-Trimethylbenzene | 3.274 | 3.522 | 3.335 | 3.444 | 3.034 | 3.150 | 3.293 | 5.5 |
| sec-Butylbenzene | 3.937 | 4.282 | 4.095 | 4.343 | 3.767 | 3.708 | 4.022 | 6.6 |
| p-Isopropyltoluene | 3.206 | 3.555 | 3.450 | 3.599 | 3.084 | 3.025 | 3.320 | 7.4 |
| n-Butylbenzene | 2.748 | 3.147 | 3.139 | 3.346 | 2.650 | 2.443 | 2.912 | 12 |
| 1,2-Dichloroethane-d4 | 0.953 | 0.910 | 0.930 | 0.932 | 0.935 | | 0.932 | 1.6 |
| Dibromofluoromethane | 0.359 | 0.355 | 0.364 | 0.368 | 0.354 | | 0.360 | 1.7 |
| Toluene-d8 | 1.246 | 1.223 | 1.266 | 1.275 | 1.221 | | 1.246 | 2 |
| 4-Bromofluorobenzene | 0.455 | 0.470 | 0.500 | 0.500 | 0.464 | | 0.478 | 4.4 |

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

# Response Factor Report MSVOA_X2

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X050525W.M
Title : SW846 8260
Last Update : Tue May 06 07:12:22 2025
Response Via : Initial Calibration

Calibration Files
1 =VX046047.D 5 =VX046046.D 20 =VX046041.D 50 =VX046042.D 100 =VX046043.D 150 =VX046044.D

| | | Compound | 1 | 5 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.658 | 0.639 | 0.697 | 0.864 | 0.859 | 0.875 | 0.765 | 14.62 |
| 3) | P | Chloromethane | 0.694 | 0.679 | 0.727 | 0.775 | 0.787 | 0.791 | 0.742 | 6.58 |
| 4) | C | Vinyl Chloride | 0.673 | 0.619 | 0.660 | 0.710 | 0.727 | 0.755 | 0.691 | 7.17# |
| 5) | T | Bromomethane | | 0.305 | 0.296 | 0.326 | 0.340 | 0.334 | 0.320 | 5.84 |
| 6) | T | Chloroethane | 0.467 | 0.368 | 0.354 | 0.378 | 0.329 | 0.317 | 0.369 | 14.44 |
| 7) | T | Trichlorofluor... | 1.064 | 0.990 | 1.035 | 1.068 | 0.983 | 0.985 | 1.021 | 3.92 |
| 8) | T | Diethyl Ether | 0.403 | 0.311 | 0.340 | 0.337 | 0.338 | 0.355 | 0.347 | 8.83 |
| 9) | T | 1,1,2-Trichlor... | 0.633 | 0.610 | 0.628 | 0.641 | 0.629 | 0.648 | 0.632 | 2.10 |
| 10) | T | Methyl Iodide | | 0.608 | 0.767 | 0.806 | 0.793 | 0.763 | 0.747 | 10.68 |
| 11) | T | Tert butyl alc... | | 0.114 | 0.122 | 0.129 | 0.144 | 0.146 | 0.131 | 10.45 |
| 12) | CM | 1,1-Dichloroet... | 0.594 | 0.567 | 0.565 | 0.601 | 0.607 | 0.625 | 0.593 | 3.94# |
| 13) | T | Acrolein | | 0.117 | 0.158 | 0.152 | 0.154 | 0.163 | 0.149 | 12.33 |
| 14) | T | Allyl chloride | 1.052 | 1.058 | 1.127 | 1.179 | 1.187 | 1.196 | 1.133 | 5.75 |
| 15) | T | Acrylonitrile | 0.363 | 0.345 | 0.378 | 0.388 | 0.381 | 0.390 | 0.374 | 4.52 |
| 16) | T | Acetone | 0.380 | 0.408 | 0.361 | 0.362 | 0.361 | 0.370 | 0.374 | 4.90 |
| 17) | T | Carbon Disulfide | 1.423 | 1.141 | 1.295 | 1.455 | 1.522 | 1.597 | 1.406 | 11.68 |
| 18) | T | Methyl Acetate | 1.006 | 0.816 | 0.814 | 0.848 | 0.845 | 0.875 | 0.867 | 8.27 |
| 19) | T | Methyl tert-bu... | 1.949 | 1.908 | 2.044 | 2.160 | 2.172 | 2.239 | 2.079 | 6.39 |
| 20) | T | Methylene Chlo... | 0.853 | 0.689 | 0.689 | 0.684 | 0.691 | 0.691 | 0.716 | 9.39 |
| 21) | T | trans-1,2-Dich... | 0.604 | 0.557 | 0.573 | 0.610 | 0.612 | 0.622 | 0.596 | 4.27 |
| 22) | T | Diisopropyl ether | 2.095 | 1.924 | 2.219 | 2.278 | 2.295 | 2.321 | 2.189 | 6.97 |
| 23) | T | Vinyl Acetate | 1.660 | 1.698 | 1.928 | 2.048 | 2.082 | 2.134 | 1.925 | 10.52 |
| 24) | P | 1,1-Dichloroet... | 1.116 | 1.154 | 1.233 | 1.263 | 1.263 | 1.286 | 1.219 | 5.60 |
| 25) | T | 2-Butanone | 0.495 | 0.539 | 0.540 | 0.555 | 0.558 | 0.569 | 0.543 | 4.77 |
| 26) | T | 2,2-Dichloropr... | 0.965 | 0.850 | 0.910 | 0.957 | 1.003 | 1.039 | 0.954 | 7.03 |
| 27) | T | cis-1,2-Dichlo... | 0.719 | 0.642 | 0.716 | 0.737 | 0.738 | 0.755 | 0.718 | 5.55 |
| 28) | T | Bromochloromet... | 0.576 | 0.553 | 0.628 | 0.578 | 0.595 | 0.590 | 0.587 | 4.28 |
| 29) | T | Tetrahydrofuran | 0.318 | 0.318 | 0.340 | 0.350 | 0.351 | 0.362 | 0.340 | 5.36 |
| 30) | C | Chloroform | 1.265 | 1.199 | 1.287 | 1.296 | 1.277 | 1.300 | 1.271 | 2.95# |
| 31) | T | Cyclohexane | | 1.059 | 1.090 | 1.128 | 1.128 | 1.150 | 1.111 | 3.26 |
| 32) | T | 1,1,1-Trichlor... | 1.015 | 1.013 | 1.106 | 1.131 | 1.155 | 1.188 | 1.101 | 6.60 |
| 33) | S | 1,2-Dichloroet... | | 0.935 | 0.953 | 0.910 | 0.930 | 0.932 | 0.932 | 1.65 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | | 0.354 | 0.359 | 0.355 | 0.364 | 0.368 | 0.360 | 1.70 |
| 36) | T | 1,1-Dichloropr... | 0.493 | 0.462 | 0.463 | 0.495 | 0.483 | 0.505 | 0.484 | 3.68 |
| 37) | T | Ethyl Acetate | 0.586 | 0.582 | 0.569 | 0.611 | 0.609 | 0.631 | 0.598 | 3.83 |
| 38) | T | Carbon Tetrach... | 0.541 | 0.505 | 0.528 | 0.558 | 0.552 | 0.577 | 0.544 | 4.61 |
| 39) | T | Methylcyclohexane | 0.627 | 0.587 | 0.596 | 0.641 | 0.627 | 0.658 | 0.623 | 4.34 |
| 40) | TM | Benzene | 1.348 | 1.337 | 1.426 | 1.474 | 1.441 | 1.477 | 1.417 | 4.30 |
| 41) | T | Methacrylonitrile | 0.233 | 0.288 | 0.318 | 0.346 | 0.343 | 0.348 | 0.313 | 14.50 |
| 42) | TM | 1,2-Dichloroet... | 0.579 | 0.594 | 0.632 | 0.627 | 0.611 | 0.625 | 0.612 | 3.45 |
| 43) | T | Isopropyl Acetate | 0.764 | 0.826 | 0.905 | 0.963 | 0.982 | 1.030 | 0.912 | 11.05 |
| 44) | TM | Trichloroethene | 0.324 | 0.315 | 0.344 | 0.355 | 0.345 | 0.362 | 0.341 | 5.28 |
| 45) | C | 1,2-Dichloropr... | 0.317 | 0.324 | 0.356 | 0.371 | 0.368 | 0.378 | 0.352 | 7.37# |
| 46) | T | Dibromomethane | 0.263 | 0.262 | 0.285 | 0.287 | 0.280 | 0.289 | 0.278 | 4.35 |
| 47) | T | Bromodichlorom... | 0.485 | 0.498 | 0.557 | 0.577 | 0.573 | 0.594 | 0.547 | 8.22 |
| 48) | T | Methyl methacr... | 0.370 | 0.426 | 0.465 | 0.502 | 0.500 | 0.531 | 0.466 | 12.75 |
| 49) | T | 1,4-Dioxane | 0.007 | 0.009 | 0.009 | 0.009 | 0.009 | 0.010 | 0.009 | 8.45 |
| 50) | S | Toluene-d8 | | 1.221 | 1.246 | 1.223 | 1.266 | 1.275 | 1.246 | 1.95 |
| 51) | T | 4-Methyl-2-Pen... | 0.561 | 0.555 | 0.620 | 0.634 | 0.630 | 0.631 | 0.605 | 6.04 |
| 52) | CM | Toluene | 0.803 | 0.838 | 0.884 | 0.898 | 0.885 | 0.904 | 0.869 | 4.54# |
| 53) | T | t-1,3-Dichloro... | 0.371 | 0.406 | 0.468 | 0.528 | 0.555 | 0.591 | 0.487 | 17.86 |
| 54) | T | cis-1,3-Dichlo... | 0.423 | 0.469 | 0.531 | 0.578 | 0.602 | 0.623 | 0.538 | 14.61 |
| 55) | T | 1,1,2-Trichlor... | 0.308 | 0.337 | 0.349 | 0.354 | 0.351 | 0.356 | 0.343 | 5.30 |
| 56) | T | Ethyl methacry... | 0.377 | 0.508 | 0.540 | 0.595 | 0.617 | 0.639 | 0.546 | 17.58 |

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X050525W.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.610 | 0.601 | 0.618 | 0.623 | 0.613 | 0.627 | 0.615 | 1.53 |
| 58) | T | 2-Chloroethyl ... | 0.230 | 0.247 | 0.270 | 0.307 | 0.303 | 0.313 | 0.278 | 12.41 |
| 59) | T | 2-Hexanone | 0.385 | 0.414 | 0.466 | 0.473 | 0.477 | 0.473 | 0.448 | 8.69 |
| 60) | T | Dibromochlorom... | 0.306 | 0.326 | 0.378 | 0.400 | 0.415 | 0.431 | 0.376 | 13.28 |
| 61) | T | 1,2-Dibromoethane | 0.322 | 0.333 | 0.359 | 0.373 | 0.368 | 0.381 | 0.356 | 6.54 |
| 62) | S | 4-Bromofluorob... | | 0.464 | 0.455 | 0.470 | 0.500 | 0.500 | 0.478 | 4.41 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.347 | 0.323 | 0.390 | 0.375 | 0.345 | 0.344 | 0.354 | 6.84 |
| 65) | PM | Chlorobenzene | 1.131 | 1.046 | 1.093 | 1.098 | 1.085 | 1.114 | 1.094 | 2.65 |
| 66) | T | 1,1,1,2-Tetrac... | 0.369 | 0.341 | 0.365 | 0.390 | 0.382 | 0.395 | 0.374 | 5.22 |
| 67) | C | Ethyl Benzene | 1.803 | 1.816 | 1.919 | 2.022 | 1.979 | 2.036 | 1.929 | 5.24# |
| 68) | T | m/p-Xylenes | 0.648 | 0.678 | 0.706 | 0.740 | 0.721 | 0.740 | 0.706 | 5.21 |
| 69) | T | o-Xylene | 0.642 | 0.639 | 0.688 | 0.727 | 0.706 | 0.726 | 0.688 | 5.75 |
| 70) | T | Styrene | 0.951 | 1.012 | 1.135 | 1.219 | 1.214 | 1.230 | 1.127 | 10.56 |
| 71) | P | Bromoform | 0.234 | 0.236 | 0.270 | 0.304 | 0.312 | 0.327 | 0.281 | 14.17 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 3.789 | 3.562 | 3.843 | 4.130 | 3.876 | 4.156 | 3.893 | 5.72 |
| 74) | T | N-amyl acetate | 1.715 | 1.652 | 1.846 | 2.067 | 2.068 | 2.192 | 1.924 | 11.32 |
| 75) | P | 1,1,2,2-Tetrac... | 1.552 | 1.350 | 1.315 | 1.338 | 1.284 | 1.345 | 1.364 | 6.97 |
| 76) | T | 1,2,3-Trichlor... | 1.405 | 1.167 | 1.151 | 1.187 | 1.131 | 1.181 | 1.204 | 8.36 |
| 77) | T | Bromobenzene | 0.926 | 0.862 | 0.896 | 0.928 | 0.883 | 0.928 | 0.904 | 3.08 |
| 78) | T | n-propylbenzene | 4.272 | 4.186 | 4.394 | 4.854 | 4.583 | 4.868 | 4.526 | 6.45 |
| 79) | T | 2-Chlorotoluene | 3.184 | 2.748 | 2.832 | 2.994 | 2.805 | 2.953 | 2.919 | 5.45 |
| 80) | T | 1,3,5-Trimethy... | 3.036 | 3.053 | 3.275 | 3.487 | 3.255 | 3.405 | 3.252 | 5.60 |
| 81) | T | trans-1,4-Dich... | | 0.269 | 0.335 | 0.385 | 0.410 | 0.449 | 0.370 | 18.91 |
| 82) | T | 4-Chlorotoluene | 3.226 | 2.939 | 3.196 | 3.430 | 3.255 | 3.379 | 3.238 | 5.32 |
| 83) | T | tert-Butylbenzene | 3.341 | 3.098 | 3.115 | 3.435 | 3.255 | 3.411 | 3.276 | 4.44 |
| 84) | T | 1,2,4-Trimethy... | 3.150 | 3.034 | 3.274 | 3.522 | 3.335 | 3.444 | 3.293 | 5.52 |
| 85) | T | sec-Butylbenzene | 3.708 | 3.767 | 3.937 | 4.282 | 4.095 | 4.343 | 4.022 | 6.55 |
| 86) | T | p-Isopropyltol... | 3.025 | 3.084 | 3.206 | 3.555 | 3.450 | 3.599 | 3.320 | 7.44 |
| 87) | T | 1,3-Dichlorobe... | 1.619 | 1.558 | 1.633 | 1.701 | 1.656 | 1.729 | 1.649 | 3.71 |
| 88) | T | 1,4-Dichlorobe... | 1.817 | 1.606 | 1.629 | 1.693 | 1.639 | 1.722 | 1.684 | 4.64 |
| 89) | T | n-Butylbenzene | 2.443 | 2.650 | 2.748 | 3.147 | 3.139 | 3.346 | 2.912 | 12.00 |
| 90) | T | Hexachloroethane | 0.511 | 0.523 | 0.551 | 0.622 | 0.622 | 0.680 | 0.585 | 11.44 |
| 91) | T | 1,2-Dichlorobe... | 1.710 | 1.577 | 1.613 | 1.696 | 1.634 | 1.702 | 1.655 | 3.34 |
| 92) | T | 1,2-Dibromo-3-... | 0.259 | 0.248 | 0.299 | 0.322 | 0.329 | 0.356 | 0.302 | 13.89 |
| 93) | T | 1,2,4-Trichlor... | 0.862 | 0.842 | 0.861 | 0.981 | 1.035 | 1.123 | 0.951 | 12.03 |
| 94) | T | Hexachlorobuta... | 0.393 | 0.414 | 0.394 | 0.427 | 0.418 | 0.445 | 0.415 | 4.79 |
| 95) | T | Naphthalene | 3.499 | 2.929 | 3.204 | 3.613 | 3.690 | 3.984 | 3.487 | 10.69 |
| 96) | T | 1,2,3-Trichlor... | 0.941 | 0.846 | 0.921 | 1.019 | 1.051 | 1.107 | 0.981 | 9.74 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 5.543 | 168 | 83671 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 147096 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.055 | 117 | 127829 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 60503 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 31909 | 12.820 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 25.640%# | | | |
| 35) Dibromofluoromethane | 5.385 | 113 | 21112 | 12.804 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 25.600%# | | | |
| 50) Toluene-d8 | 8.646 | 98 | 73333 | 13.200 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 26.400%# | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 26760 | 13.236 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 26.480%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 23341 | 12.638 | ug/l | 96 |
| 3) Chloromethane | 1.306 | 50 | 24316 | 13.371 | ug/l | 98 |
| 4) Vinyl Chloride | 1.373 | 62 | 22096 | 13.868 | ug/l | 94 |
| 5) Bromomethane | 1.593 | 94 | 9920 | 12.279 | ug/l | 93 |
| 6) Chloroethane | 1.666 | 64 | 11832 | 14.414 | ug/l | 95 |
| 7) Trichlorofluoromethane | 1.873 | 101 | 34636 | 14.271 | ug/l | 100 |
| 8) Diethyl Ether | 2.129 | 74 | 11392 | 14.278 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 2.324 | 101 | 21027 | 14.499 | ug/l | 98 |
| 10) Methyl Iodide | 2.446 | 142 | 25661 | 15.070 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.971 | 59 | 20370 | 68.662 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 2.312 | 96 | 18899 | 13.385 | ug/l | 98 |
| 13) Acrolein | 2.233 | 56 | 26427 | 76.689 | ug/l | 95 |
| 14) Allyl chloride | 2.660 | 41 | 37708 | 14.133 | ug/l | 99 |
| 15) Acrylonitrile | 3.062 | 53 | 63290 | 71.312 | ug/l | 98 |
| 16) Acetone | 2.379 | 43 | 60363 | 70.884 | ug/l | 99 |
| 17) Carbon Disulfide | 2.501 | 76 | 43348 | 13.251 | ug/l | 100 |
| 18) Methyl Acetate | 2.702 | 43 | 27234 | 13.397 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 68402 | 13.890 | ug/l | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 23050 | 13.362 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 3.086 | 96 | 19161 | 13.294 | ug/l | 96 |
| 22) Diisopropyl ether | 3.763 | 45 | 74257 | 14.896 | ug/l | 95 |
| 23) Vinyl Acetate | 3.720 | 43 | 322598 | 73.230 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 41257 | 14.082 | ug/l | 98 |
| 25) 2-Butanone | 4.556 | 43 | 90331 | 73.489 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 4.470 | 77 | 30472 | 13.729 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 23970 | 13.791 | ug/l | 98 |
| 28) Bromochloromethane | 4.897 | 49 | 21028 | 13.497 | ug/l | 99 |
| 29) Tetrahydrofuran | 5.007 | 42 | 56819 | 71.175 | ug/l | 100 |
| 30) Chloroform | 5.086 | 83 | 43065 | 14.144 | ug/l | 95 |
| 31) Cyclohexane | 5.458 | 56 | 36470 | 14.769 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 5.379 | 97 | 37003 | 14.092 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 27242 | 14.231 | ug/l | 98 |
| 37) Ethyl Acetate | 4.720 | 43 | 33458 | 13.931 | ug/l | 98 |
| 38) Carbon Tetrachloride | 5.671 | 117 | 31091 | 14.137 | ug/l | 98 |
| 39) Methylcyclohexane | 7.372 | 83 | 35077 | 14.623 | ug/l | 99 |
| 40) Benzene | 6.031 | 78 | 83898 | 14.140 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
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 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.915 | 41 | 18732 | 14.038 | ug/l | | 95 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 37203 | 15.165 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.342 | 43 | 53275 | 14.512 | ug/l | | 99 |
| 44) Trichloroethene | 7.116 | 130 | 20239 | 14.429 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 20940 | 14.204 | ug/l | | 98 |
| 46) Dibromomethane | 7.580 | 93 | 16781 | 14.439 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.817 | 83 | 32762 | 14.545 | ug/l | | 94 |
| 48) Methyl methacrylate | 7.689 | 41 | 27374 | 14.521 | ug/l | | 100 |
| 49) 1,4-Dioxane | 7.659 | 88 | 10585 | 282.442 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 8.573 | 43 | 182455 | 75.775 | ug/l | | 98 |
| 52) Toluene | 8.713 | 92 | 52030 | 14.788 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 27549 | 14.566 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 31226 | 14.154 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 9.152 | 97 | 20536 | 14.442 | ug/l | | 96 |
| 56) Ethyl methacrylate | 9.116 | 69 | 31787 | 14.425 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 36341 | 14.417 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 79531 | 80.312 | ug/l | | 100 |
| 59) 2-Hexanone | 9.427 | 43 | 137054 | 74.997 | ug/l | | 99 |
| 60) Dibromochloromethane | 9.518 | 129 | 22267 | 14.387 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.610 | 107 | 21113 | 14.458 | ug/l | | 96 |
| 64) Tetrachloroethene | 9.268 | 164 | 19924 | 15.263 | ug/l | | 97 |
| 65) Chlorobenzene | 10.079 | 112 | 55863 | 14.202 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.158 | 131 | 18671 | 14.231 | ug/l | | 98 |
| 67) Ethyl Benzene | 10.189 | 91 | 98113 | 14.631 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 72202 | 29.806 | ug/l | | 99 |
| 69) o-Xylene | 10.640 | 106 | 35178 | 14.408 | ug/l | | 96 |
| 70) Styrene | 10.652 | 104 | 58034 | 14.853 | ug/l | | 98 |
| 71) Bromoform | 10.799 | 173 | 13825 | 14.030 | ug/l | # | 100 |
| 73) Isopropylbenzene | 10.957 | 105 | 93013 | 14.096 | ug/l | | 99 |
| 74) N-amyl acetate | 10.841 | 43 | 44684 | 13.581 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 31830 | 13.560 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.237 | 75 | 27845m | 11.039 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 21695 | 14.212 | ug/l | | 96 |
| 78) n-propylbenzene | 11.298 | 91 | 106337 | 14.376 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 11.359 | 91 | 68534 | 13.748 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 79261 | 14.468 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 8104 | 13.371 | ug/l | | 91 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 77338 | 14.116 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 75382 | 14.011 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 79232 | 14.480 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 95271 | 14.263 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 77599 | 14.387 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 39520 | 13.898 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 39419 | 14.146 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 66506 | 14.184 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 13332 | 13.287 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 39031 | 14.092 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.938 | 75 | 7232 | 13.535 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 20846 | 13.745 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 9524 | 13.426 | ug/l | | 97 |
| 95) Naphthalene | 13.774 | 128 | 77542 | 14.040 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.956 | 180 | 22301 | 14.023 | ug/l | | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
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 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 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

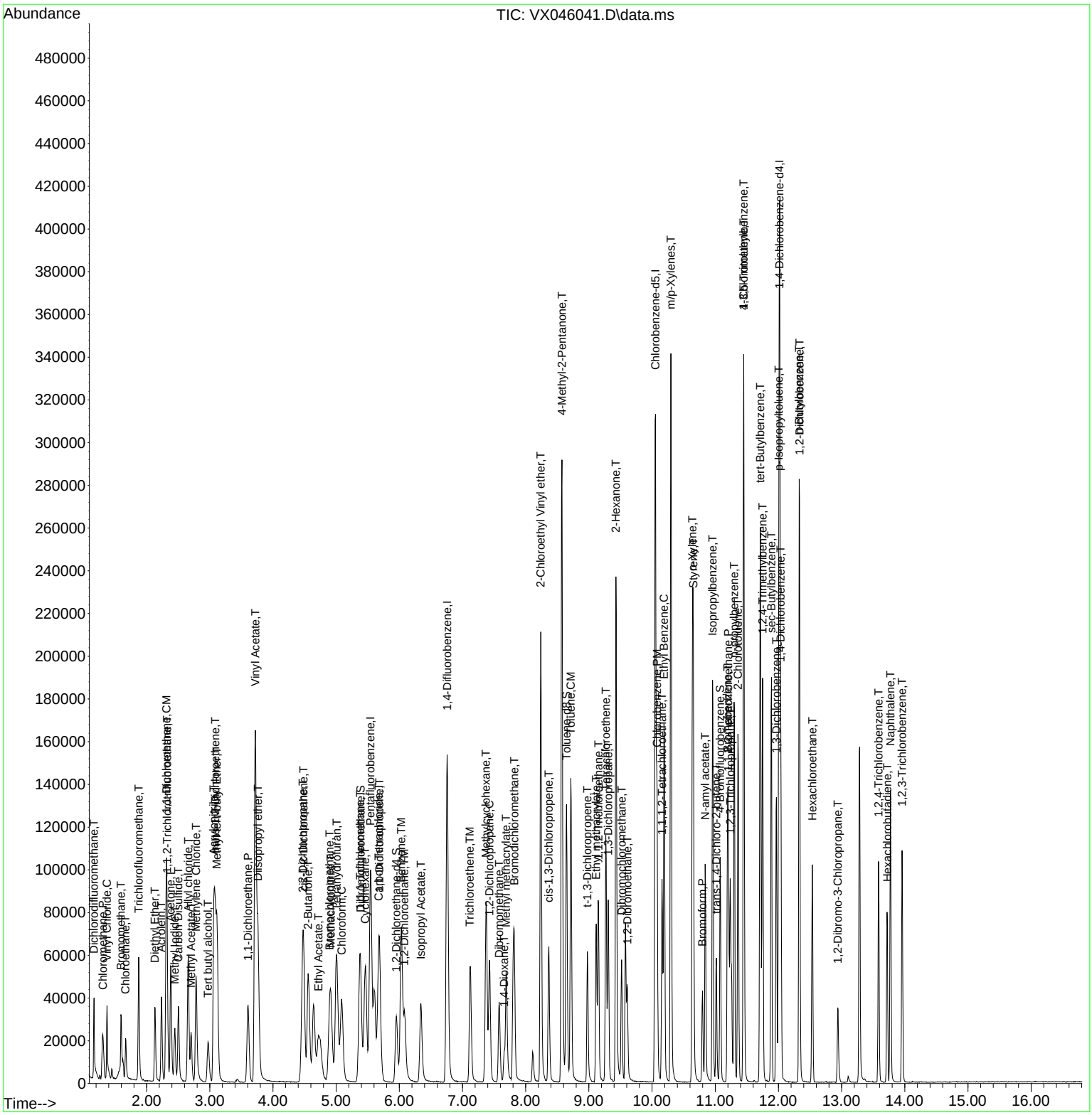
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

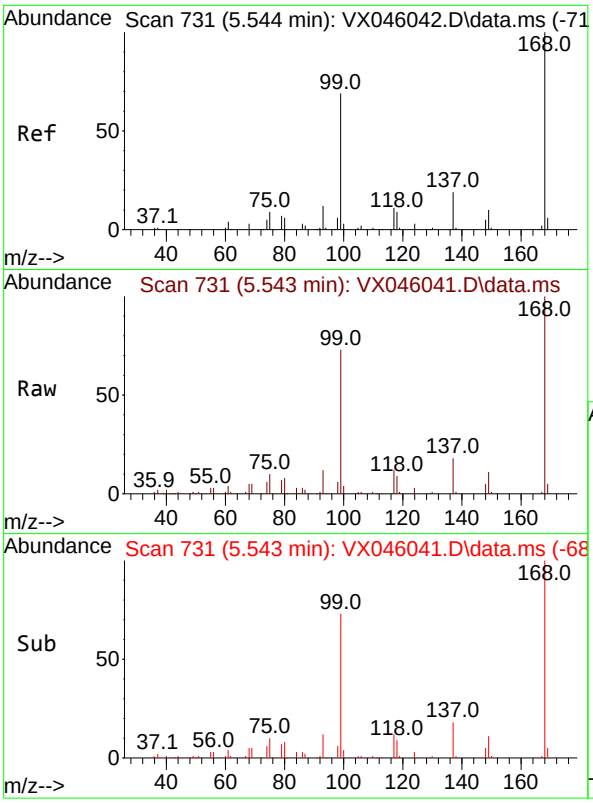
Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

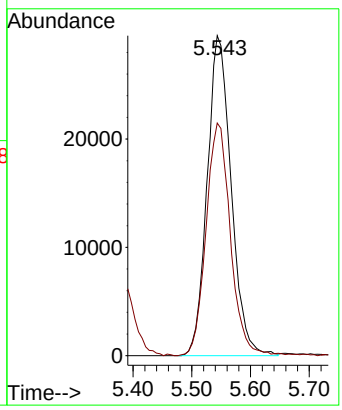





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.001 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:168 Resp: 8367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 72.7 | 54.9 | 82.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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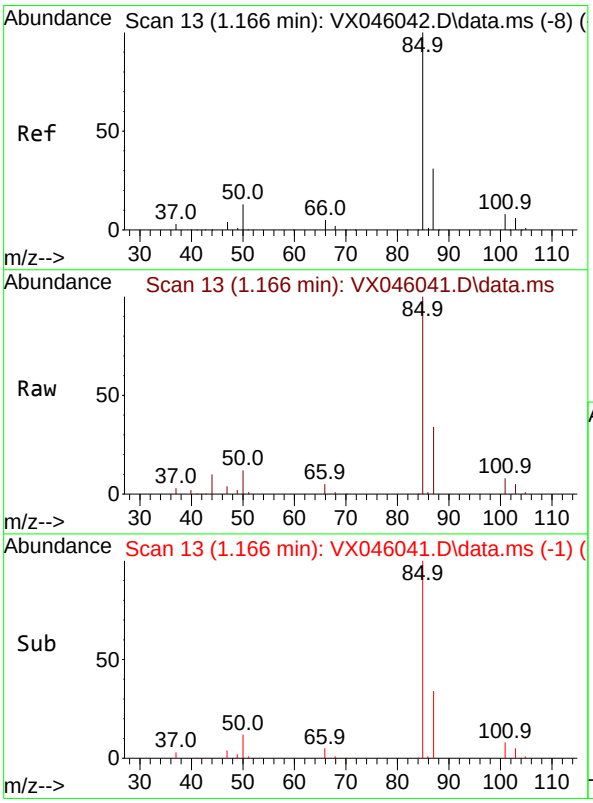
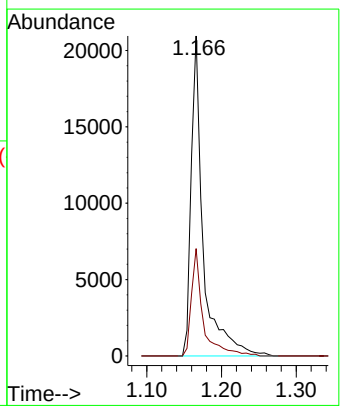
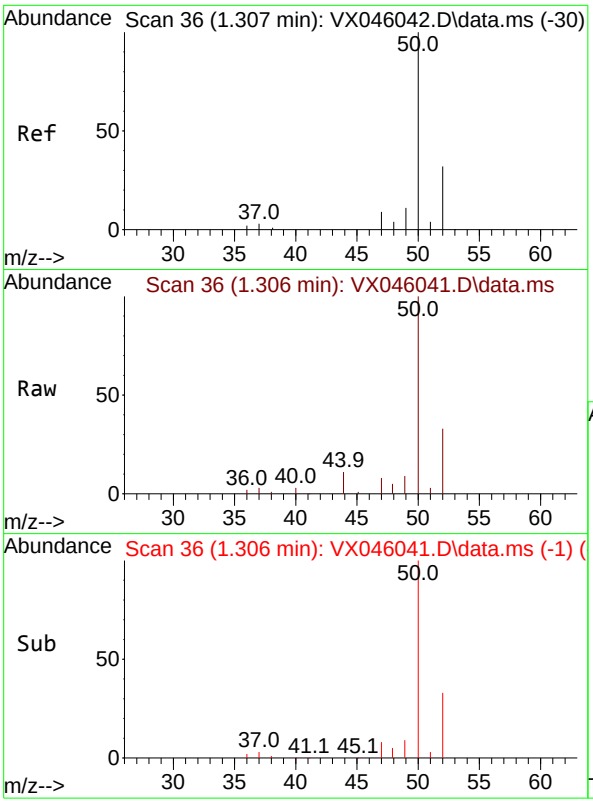



#2
Dichlorodifluoromethane
Concen: 12.638 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 85 Resp: 23341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.5 | 15.7 | 47.1 |

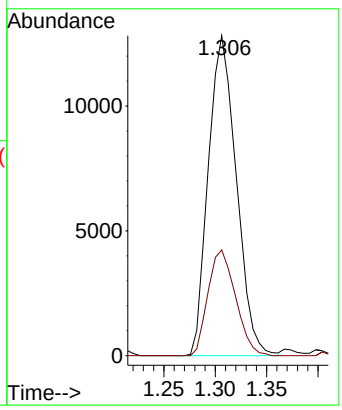





#3
Chloromethane
Concen: 13.371 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 50 Resp: 2431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 25.4 | 38.2 |

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VSTDICC020

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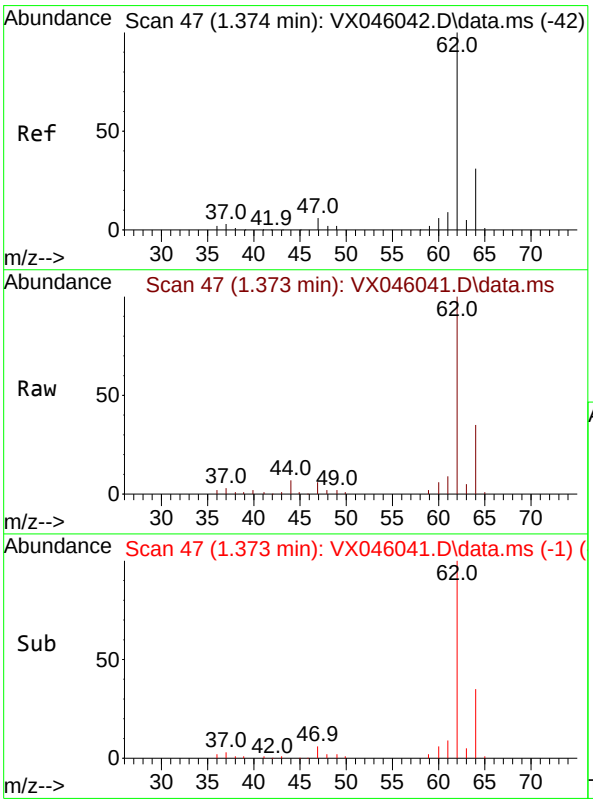
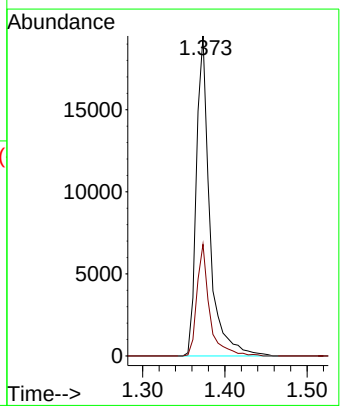
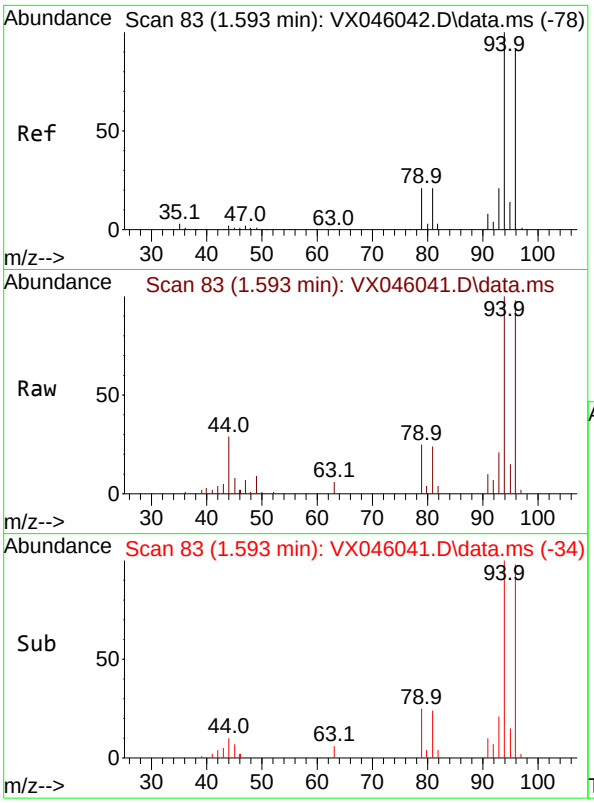



#4
Vinyl Chloride
Concen: 13.868 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 62 Resp: 22096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.9 | 25.2 | 37.8 |

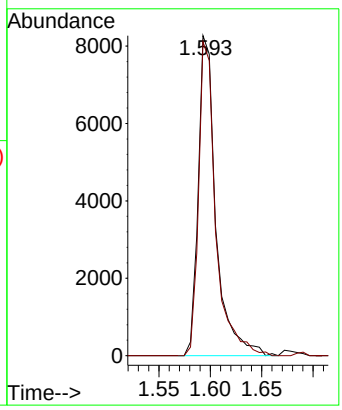





#5
Bromomethane
Concen: 12.279 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 94 Resp: 992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 98.1 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
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VSTDICC020

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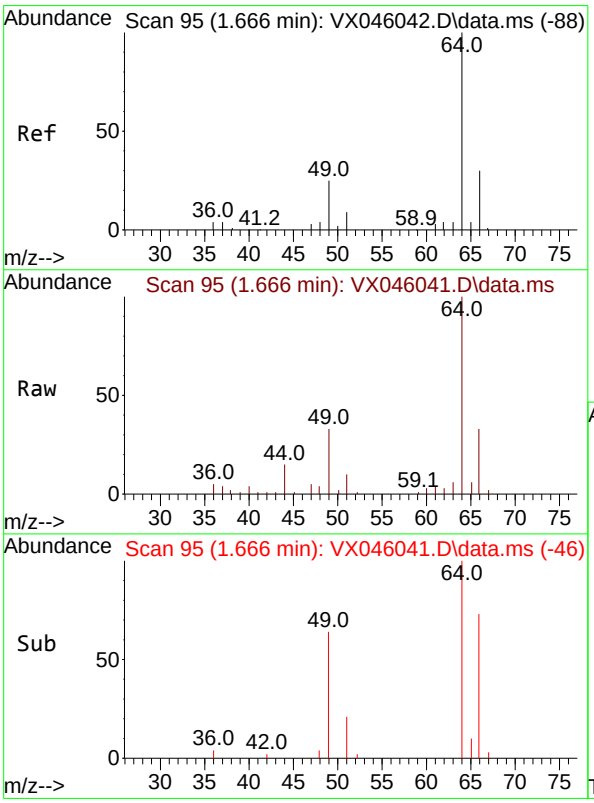
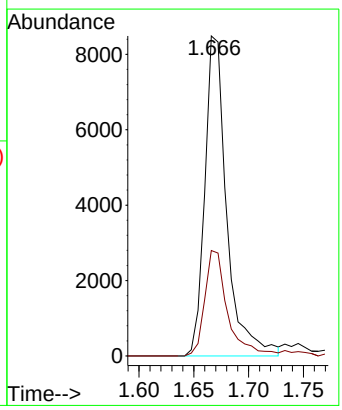
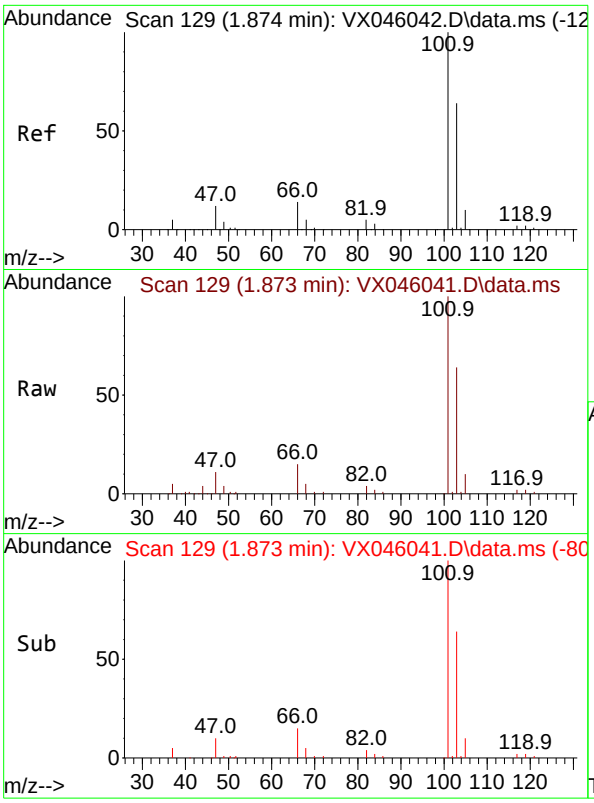



#6
Chloroethane
Concen: 14.414 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 64 Resp: 11832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.9 | 24.3 | 36.5 |

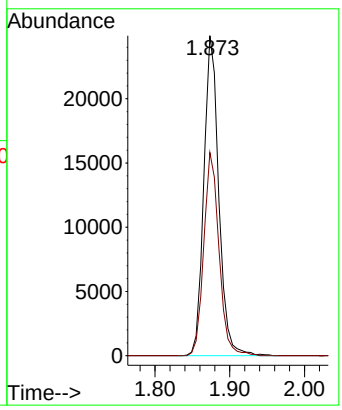





#7
Trichlorofluoromethane
Concen: 14.271 ug/l
RT: 1.873 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:101 Resp: 3463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.5 | 51.0 | 76.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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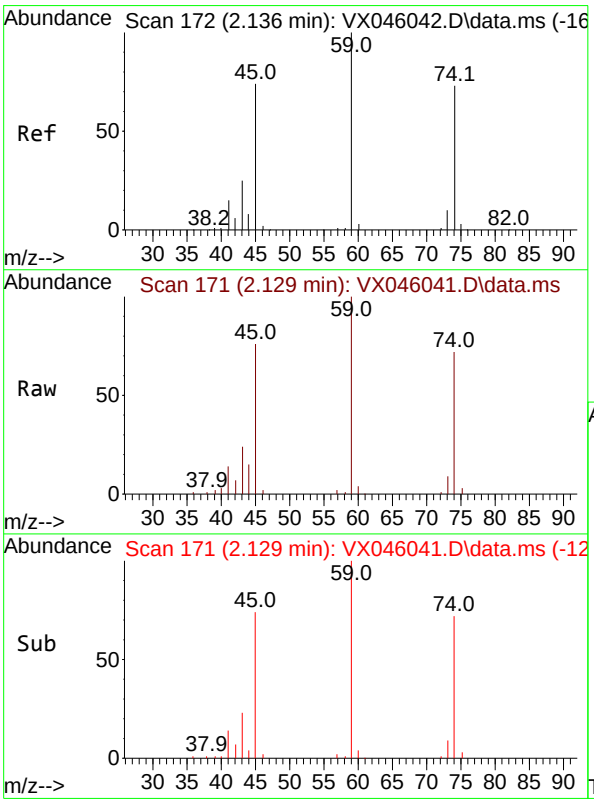
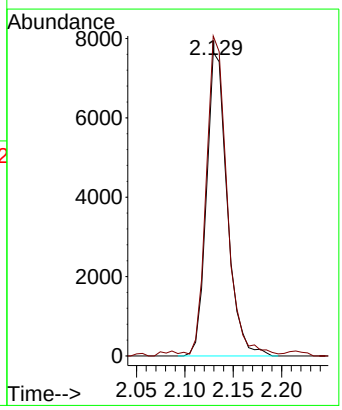
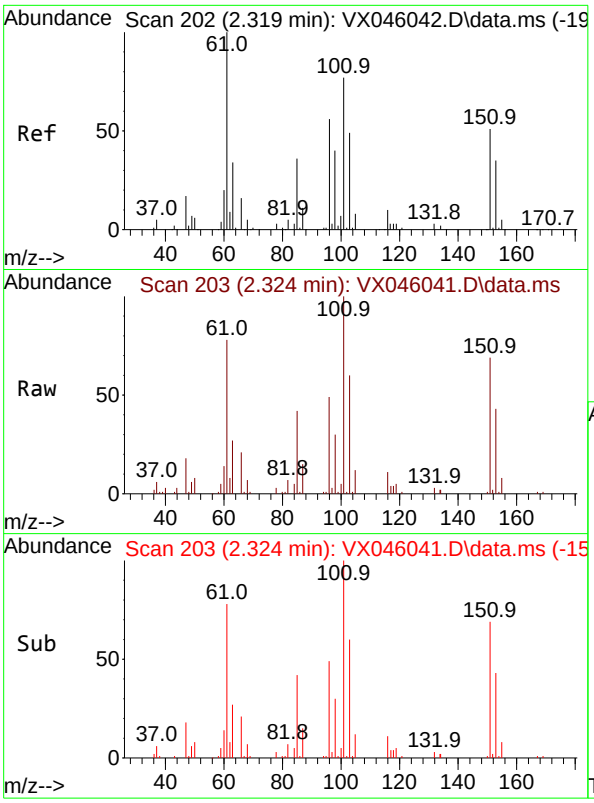



#8
Diethyl Ether
Concen: 14.278 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 74 Resp: 11392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 103.7 | 54.9 | 164.8 |

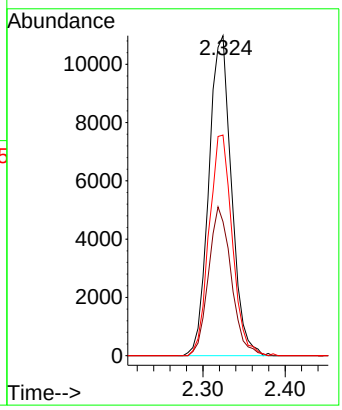





#9
1,1,2-Trichlorotrifluoroethane
Concen: 14.499 ug/l
RT: 2.324 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:101 Resp: 2102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.6 | 38.6 | 58.0 |
| 151 | 70.4 | 55.2 | 82.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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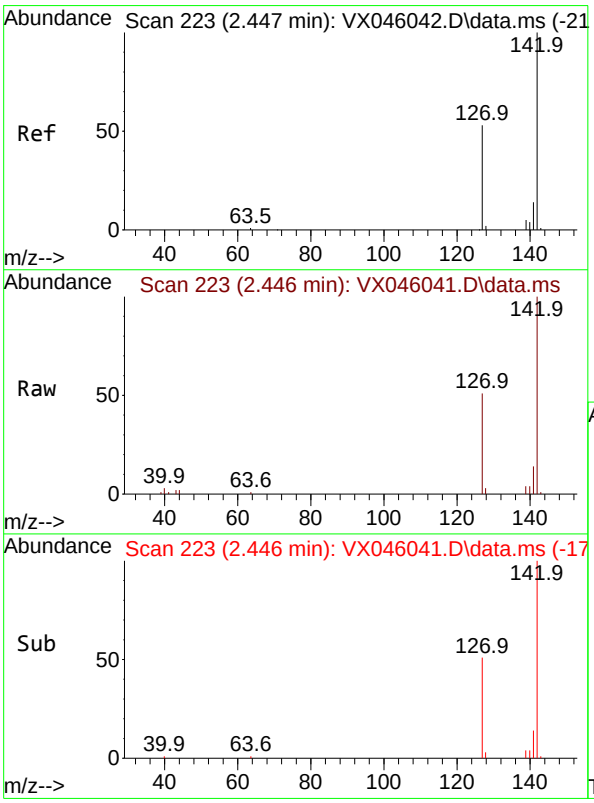
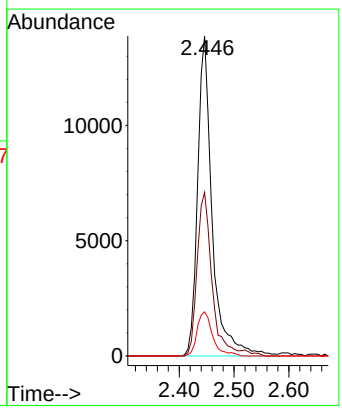
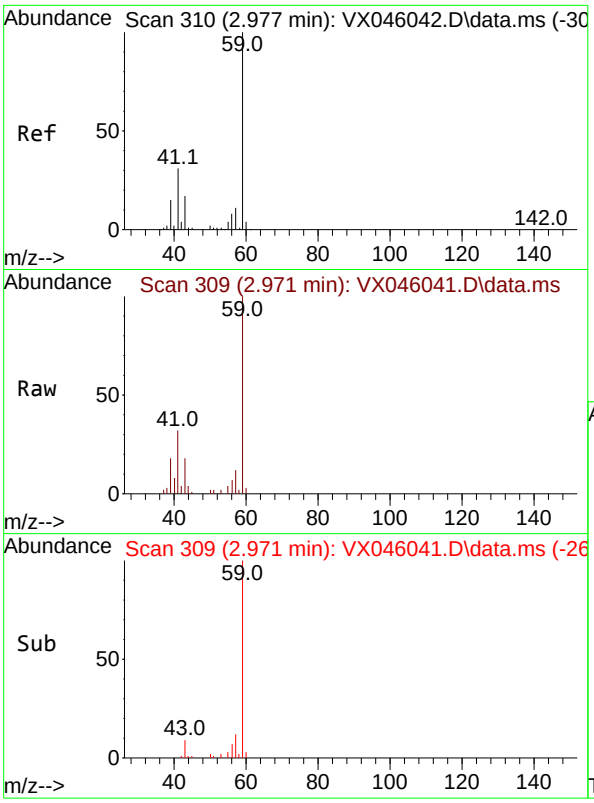



#10
Methyl Iodide
Concen: 15.070 ug/l
RT: 2.446 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:142 Resp: 25661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 53.0 | 41.7 | 62.5 |
| 141 | 14.7 | 11.5 | 17.3 |

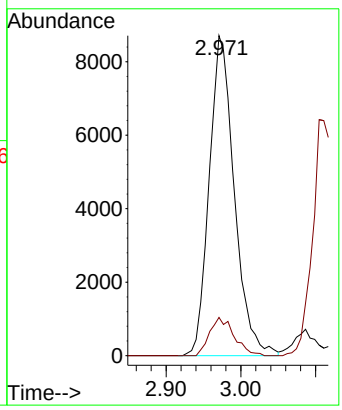





#11
Tert butyl alcohol
Concen: 68.662 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 59 Resp: 2037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.7 | 8.6 | 12.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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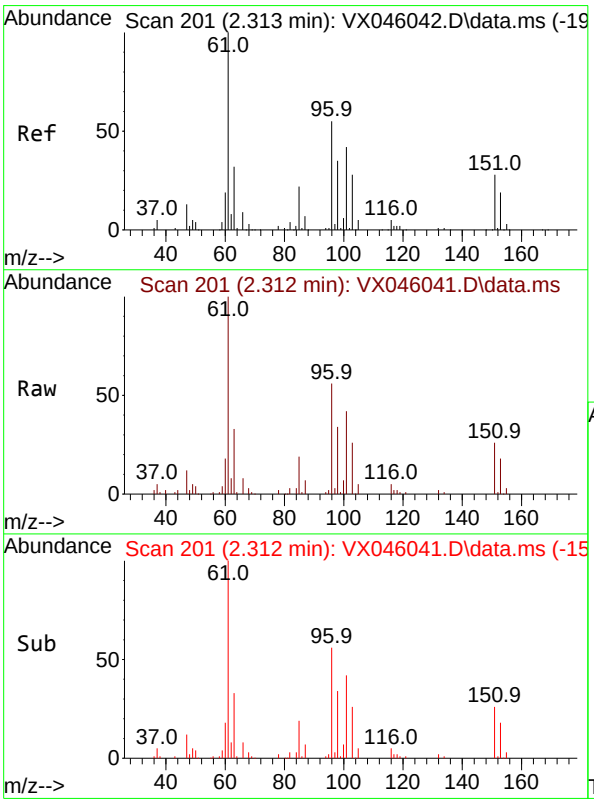
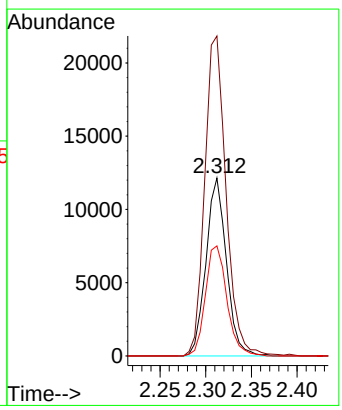
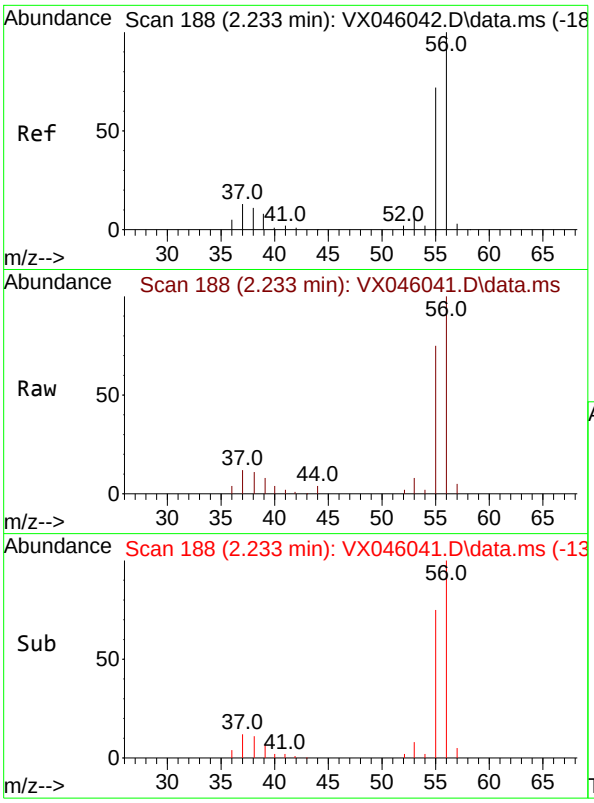



#12
1,1-Dichloroethene
Concen: 13.385 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 96 Resp: 18899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 179.8 | 146.2 | 219.2 |
| 98 | 61.8 | 51.0 | 76.6 |

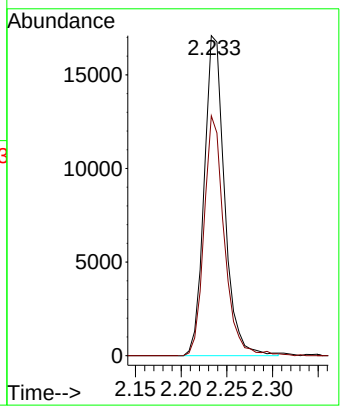





#13
Acrolein
Concen: 76.689 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 56 Resp: 2642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 74.3 | 56.2 | 84.4 |

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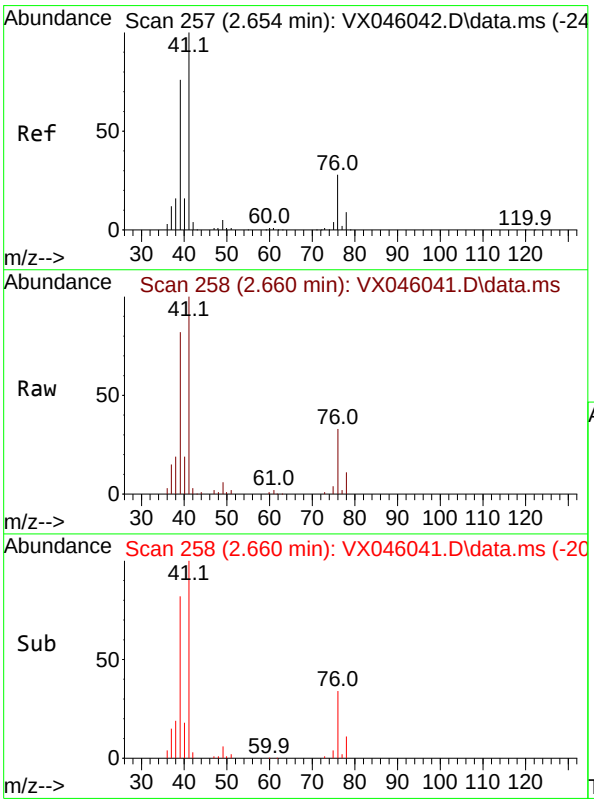
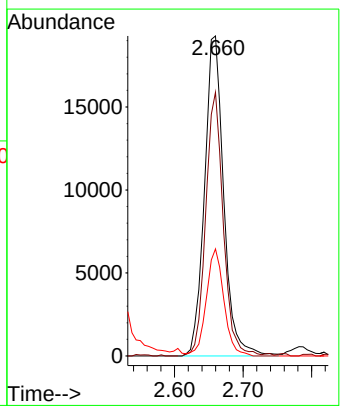
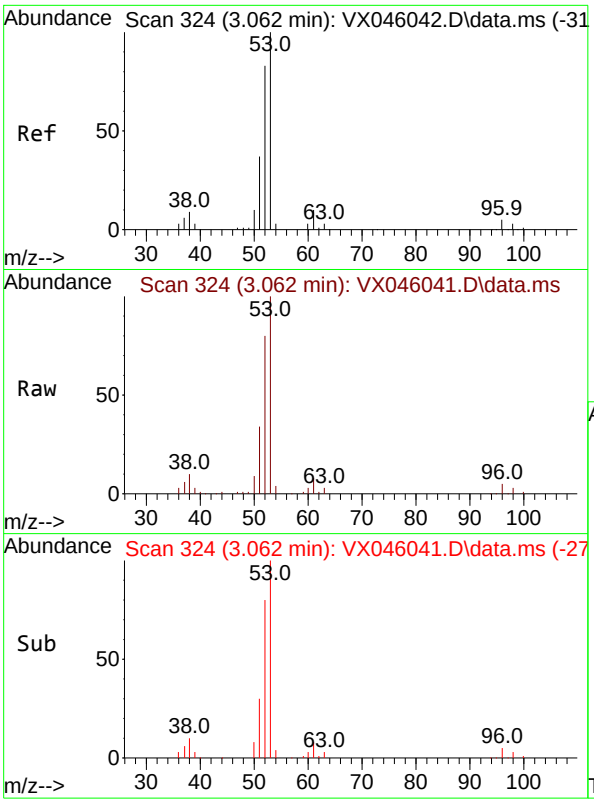



#14
Allyl chloride
Concen: 14.133 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 41 Resp: 37708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 75.0 | 60.6 | 90.8 |
| 76 | 30.6 | 24.9 | 37.3 |

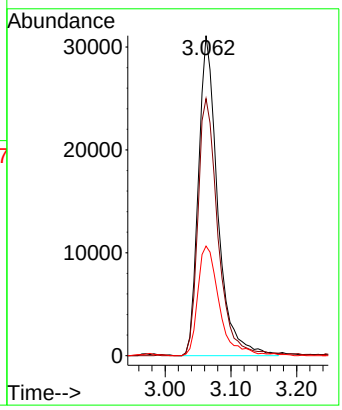





#15
Acrylonitrile
Concen: 71.312 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 53 Resp: 6329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.5 | 65.3 | 97.9 |
| 51 | 38.4 | 29.8 | 44.8 |

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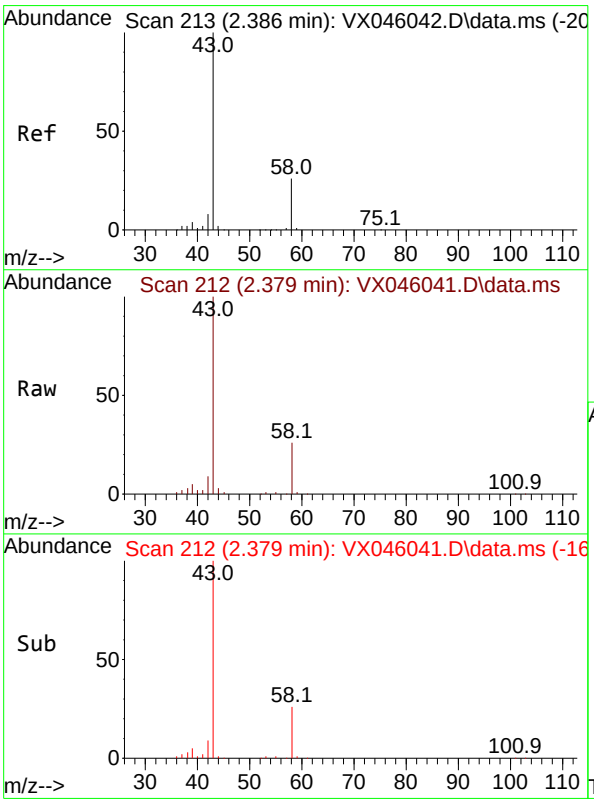
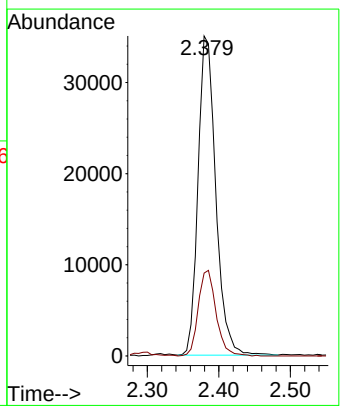
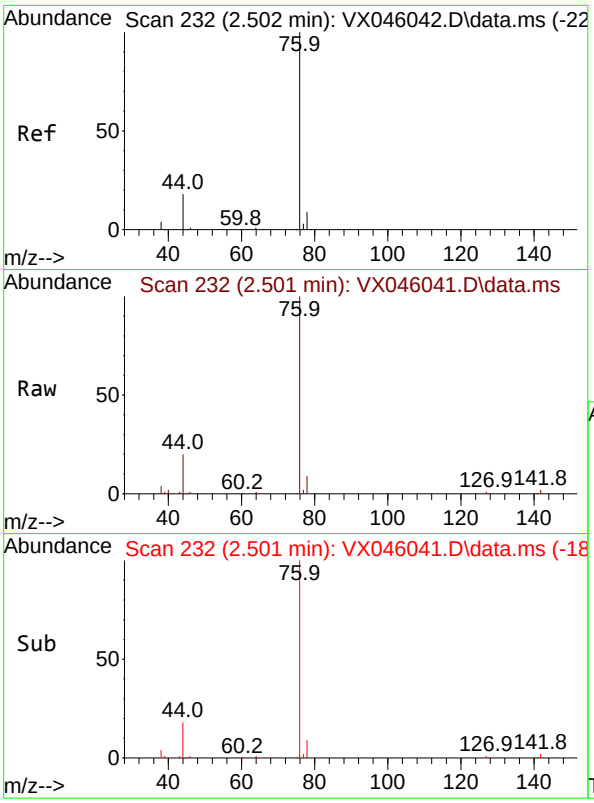



#16
Acetone
Concen: 70.884 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 60363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.0 | 21.2 | 31.8 |

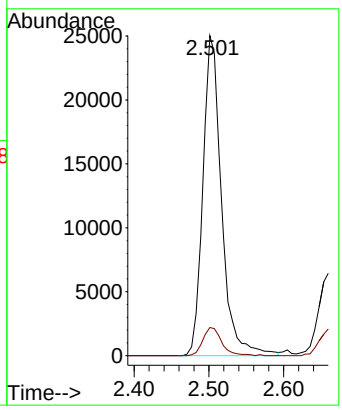





#17
Carbon Disulfide
Concen: 13.251 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 76 Resp: 4334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 7.0 | 10.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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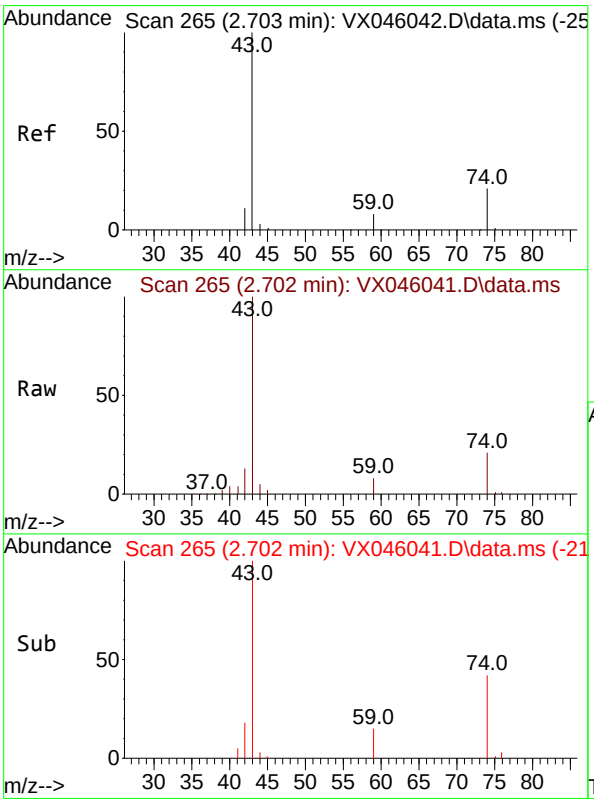
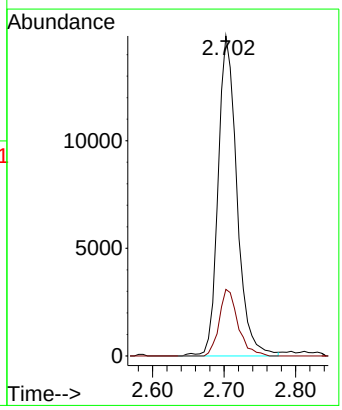
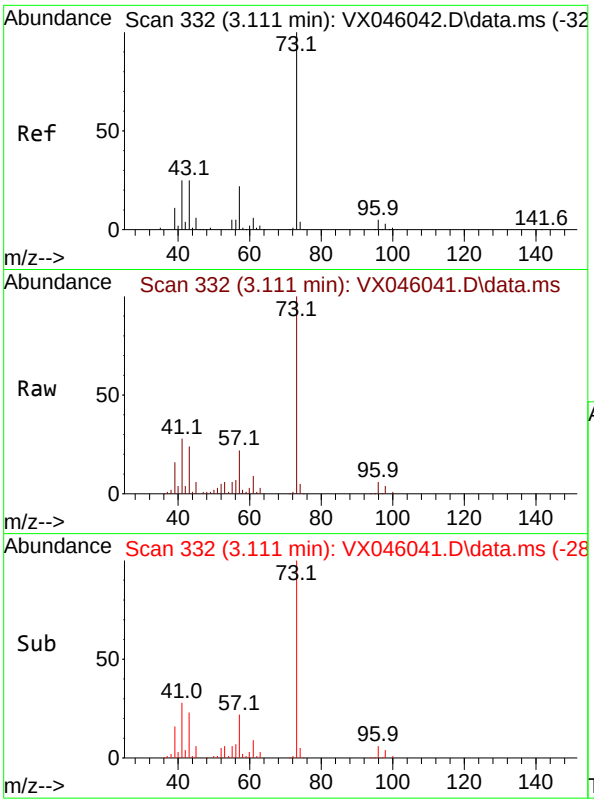



#18
Methyl Acetate
Concen: 13.397 ug/l
RT: 2.702 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 27234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 20.7 | 16.7 | 25.1 |

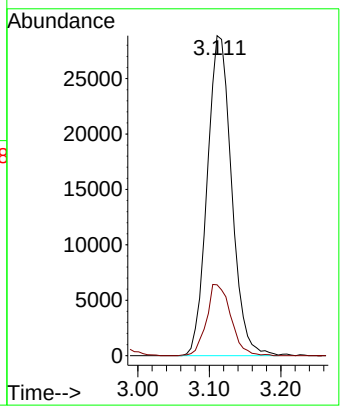





#19
Methyl tert-butyl Ether
Concen: 13.890 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 73 Resp: 6840

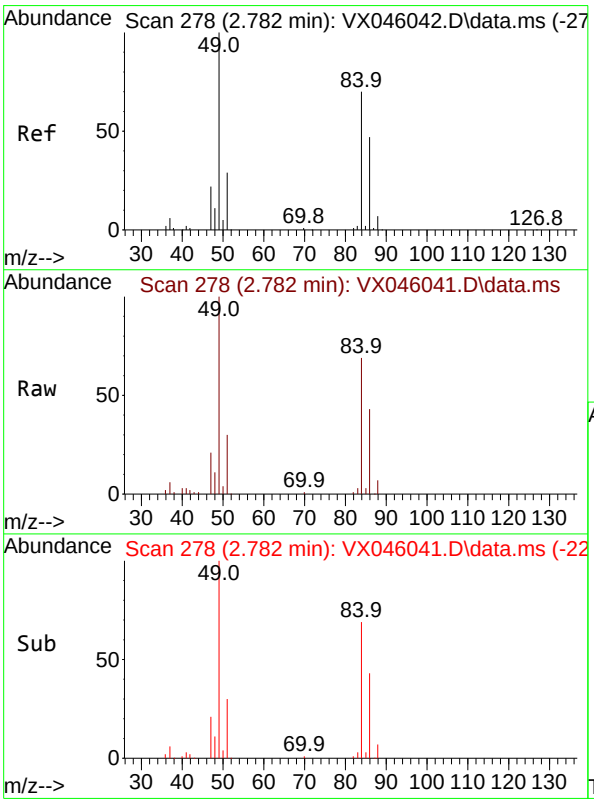
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.2 | 17.7 | 26.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

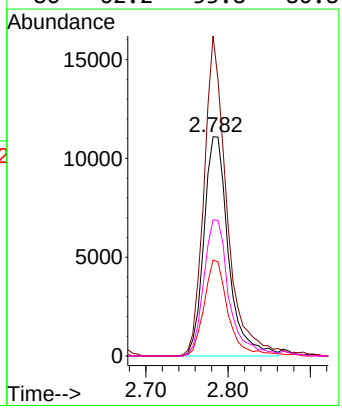
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

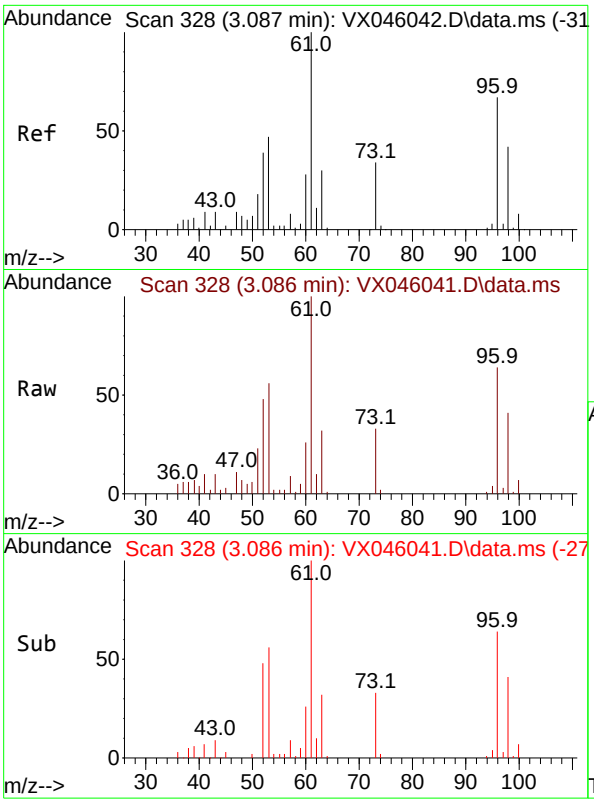



#20
Methylene Chloride
Concen: 13.362 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 84 Resp: 23050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 146.0 | 113.9 | 170.9 |
| 51 | 43.8 | 33.5 | 50.3 |
| 86 | 62.2 | 53.8 | 80.8 |

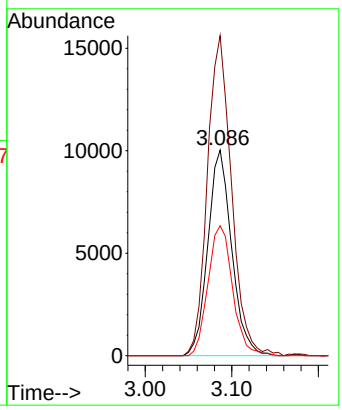





#21
trans-1,2-Dichloroethene
Concen: 13.294 ug/l
RT: 3.086 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 96 Resp: 1916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 155.6 | 119.5 | 179.3 |
| 98 | 63.2 | 50.0 | 75.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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Reviewed By :John Carlone 05/06/2025
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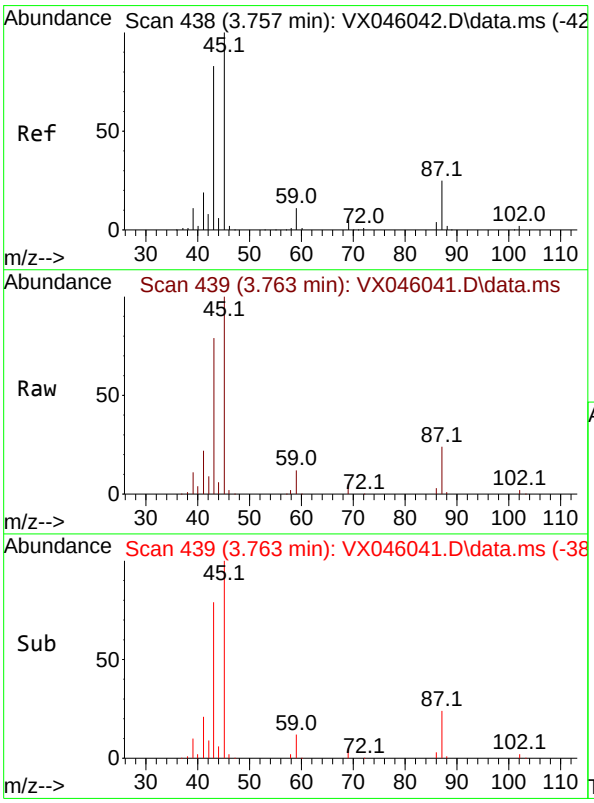
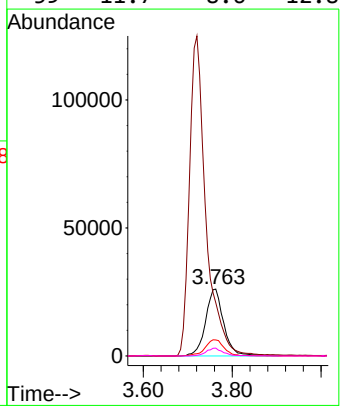
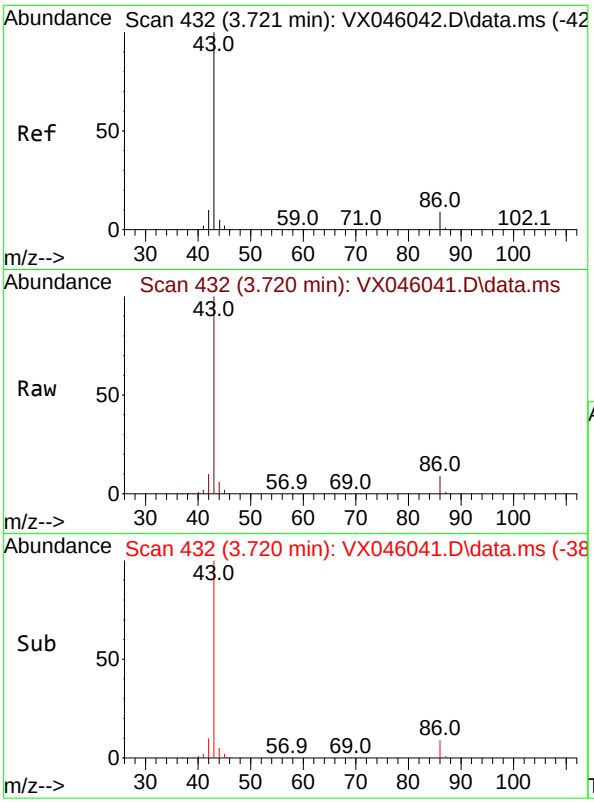



#22
Diisopropyl ether
Concen: 14.896 ug/l
RT: 3.763 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 45 Resp: 74257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 78.2 | 66.6 | 100.0 |
| 87 | 24.0 | 19.8 | 29.6 |
| 59 | 11.7 | 8.6 | 12.8 |






#23
Vinyl Acetate
Concen: 73.230 ug/l
RT: 3.720 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 32259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.3 | 7.5 | 11.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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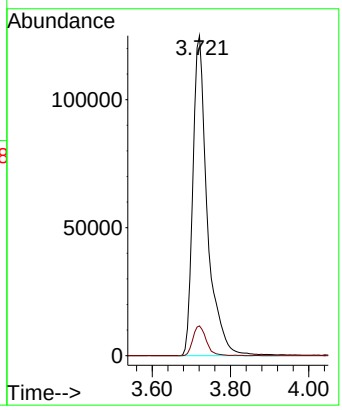
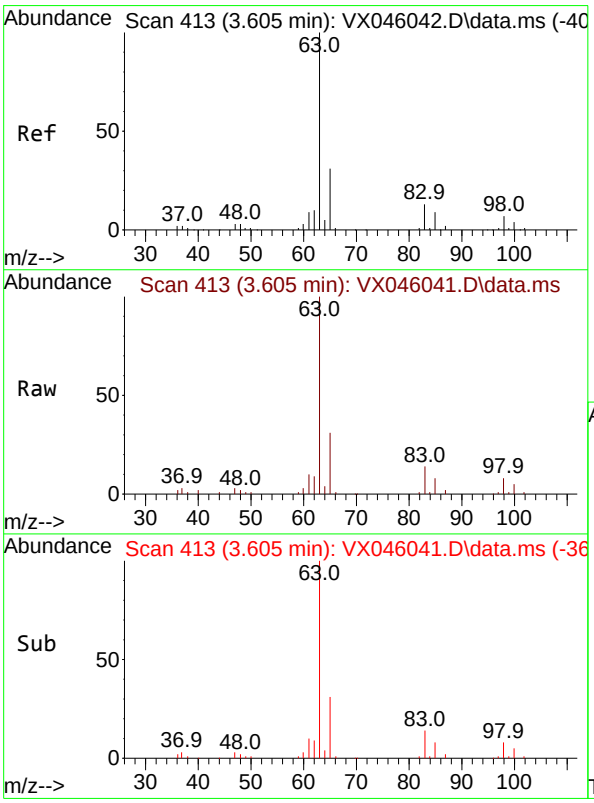
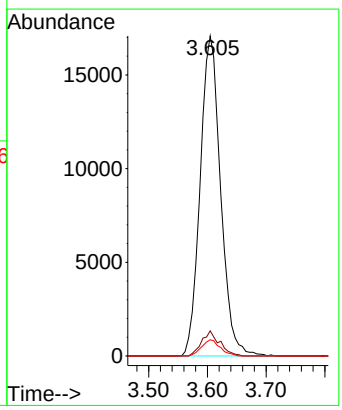


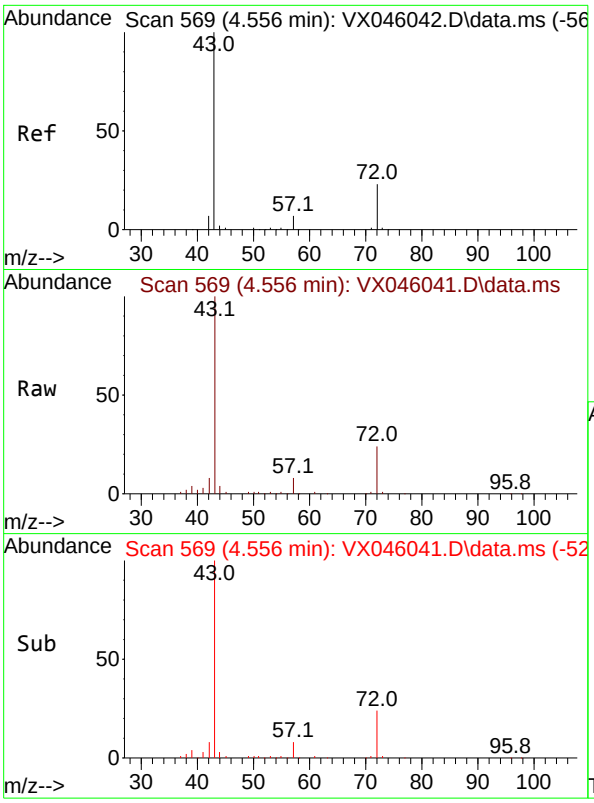




#24
1,1-Dichloroethane
Concen: 14.082 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 63 Resp: 41257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.9 | 3.6 | 10.8 |
| 100 | 5.0 | 2.1 | 6.3 |






#25
2-Butanone
Concen: 73.489 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 9033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.8 | 18.4 | 27.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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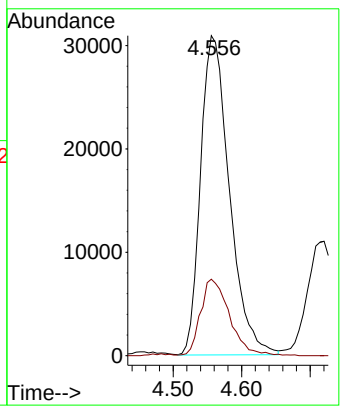
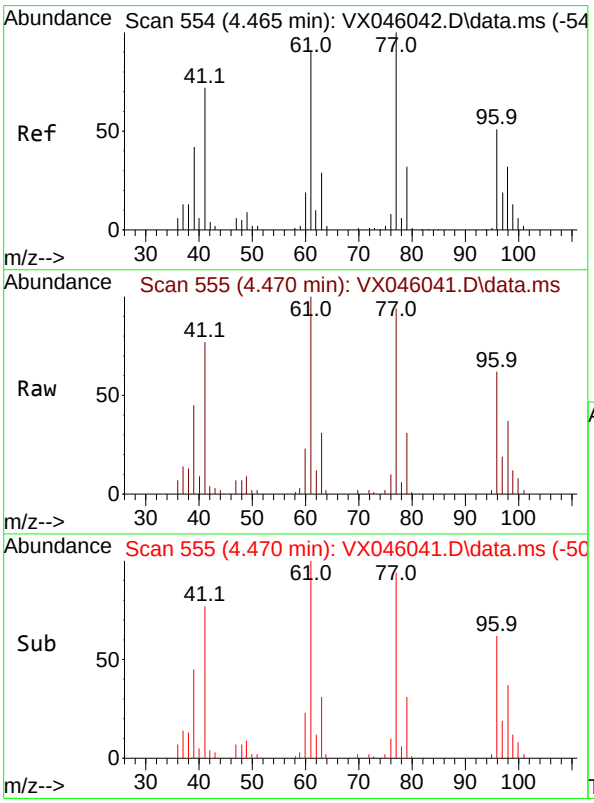
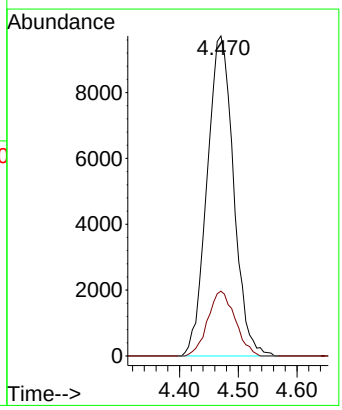


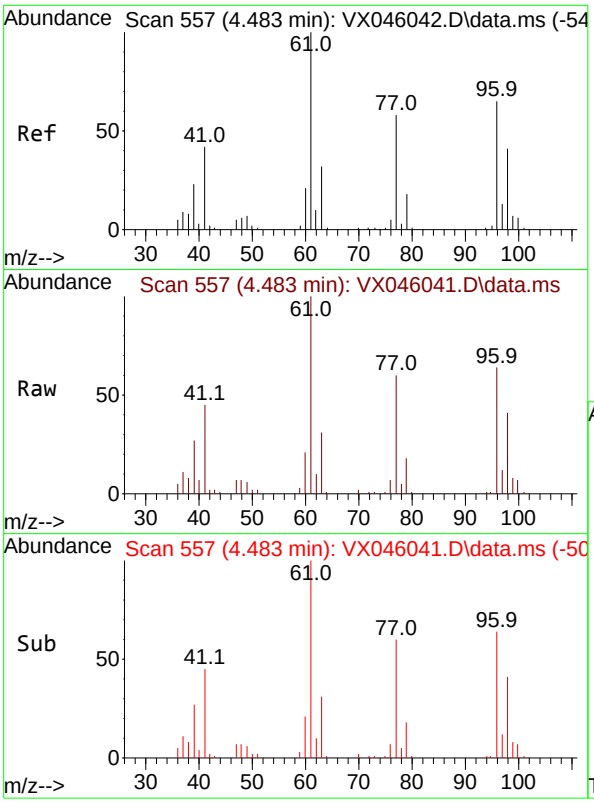




#26
2,2-Dichloropropane
Concen: 13.729 ug/l
RT: 4.470 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 77 Resp: 30472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 20.9 | 10.5 | 31.5 |

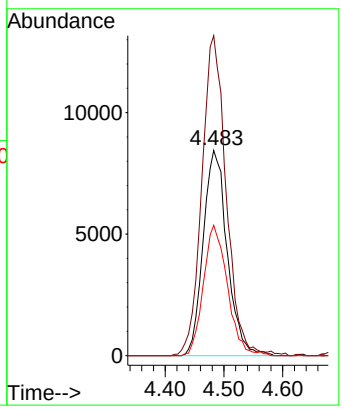





#27
cis-1,2-Dichloroethene
Concen: 13.791 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 96 Resp: 2397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.3 | 0.0 | 322.8 |
| 98 | 63.5 | 0.0 | 129.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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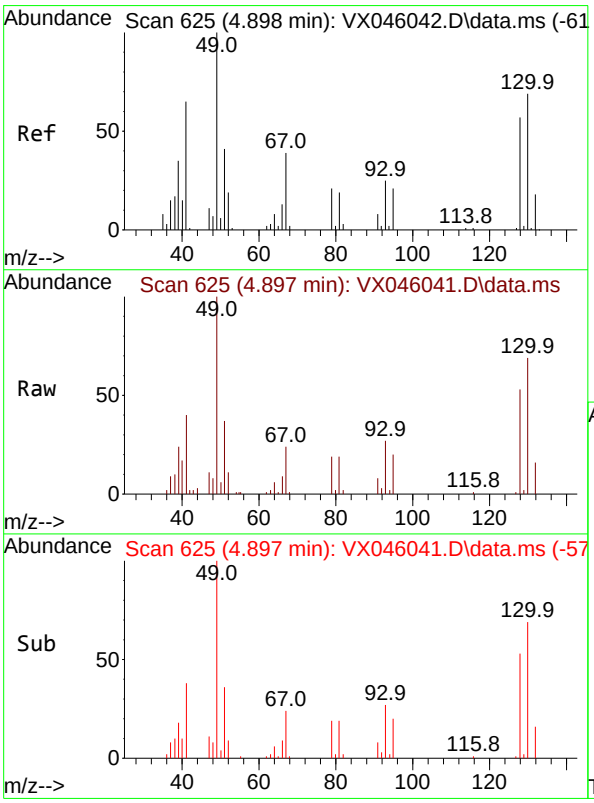
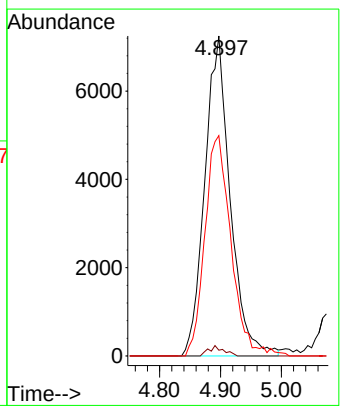
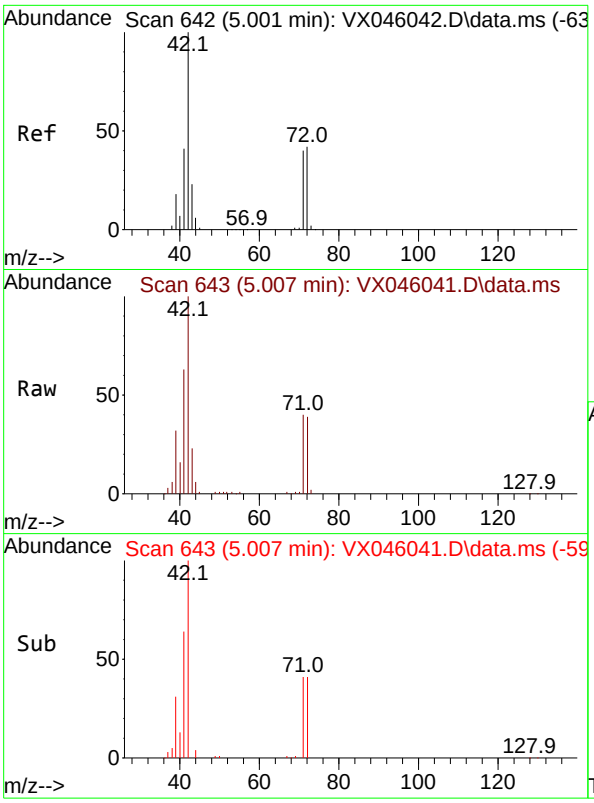



#28
Bromochloromethane
Concen: 13.497 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 49 Resp: 21028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 4.0 |
| 130 | 70.9 | 56.2 | 84.2 |

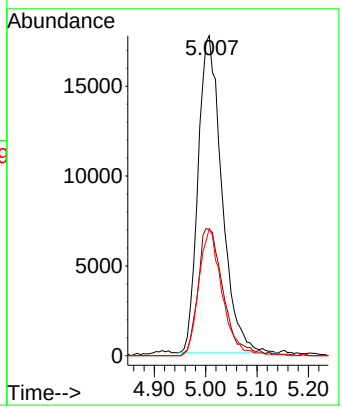





#29
Tetrahydrofuran
Concen: 71.175 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 42 Resp: 5681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.3 | 33.7 | 50.5 |
| 71 | 39.2 | 31.4 | 47.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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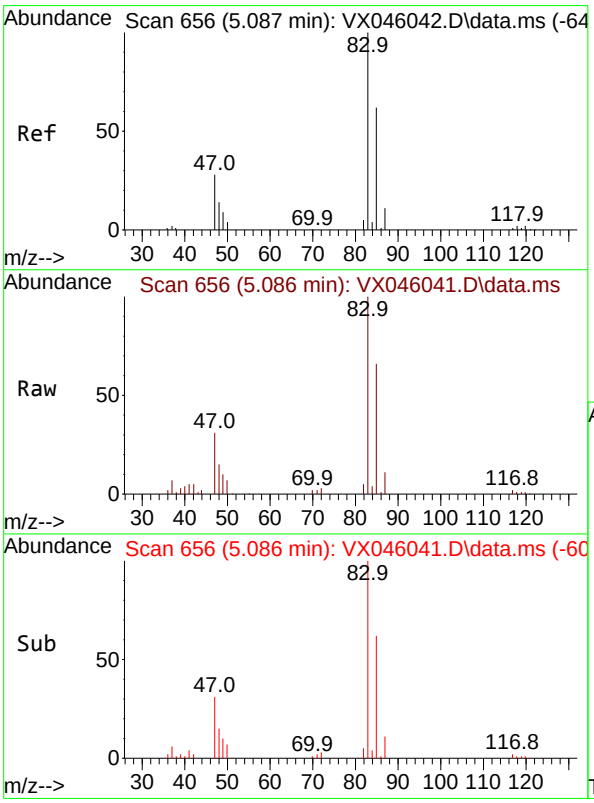
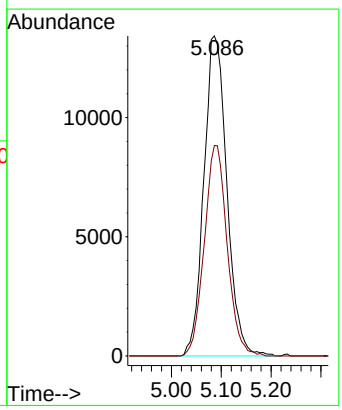
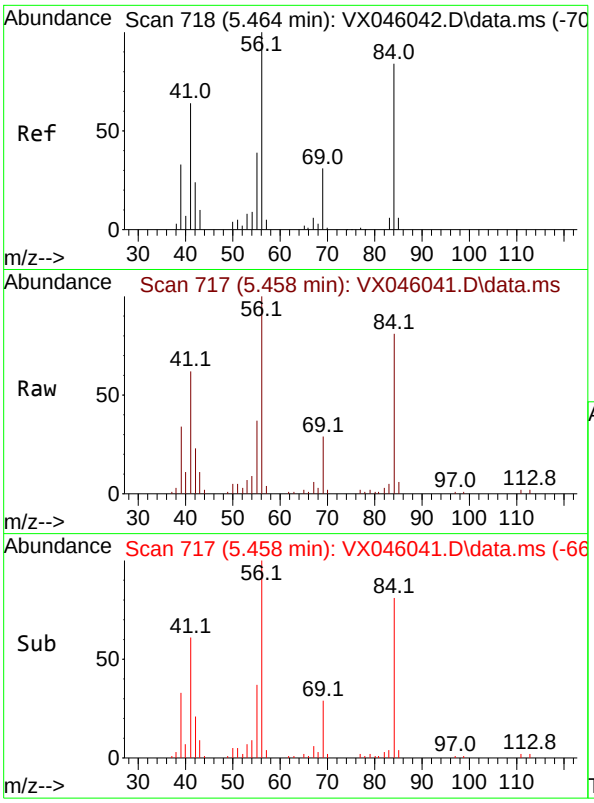



#30
Chloroform
Concen: 14.144 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 83 Resp: 43065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.7 | 49.3 | 73.9 |

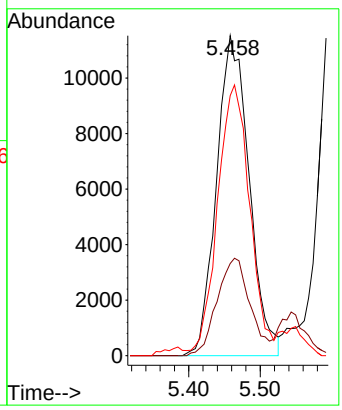





#31
Cyclohexane
Concen: 14.769 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 56 Resp: 3647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 28.8 | 24.4 | 36.6 |
| 84 | 78.5 | 66.9 | 100.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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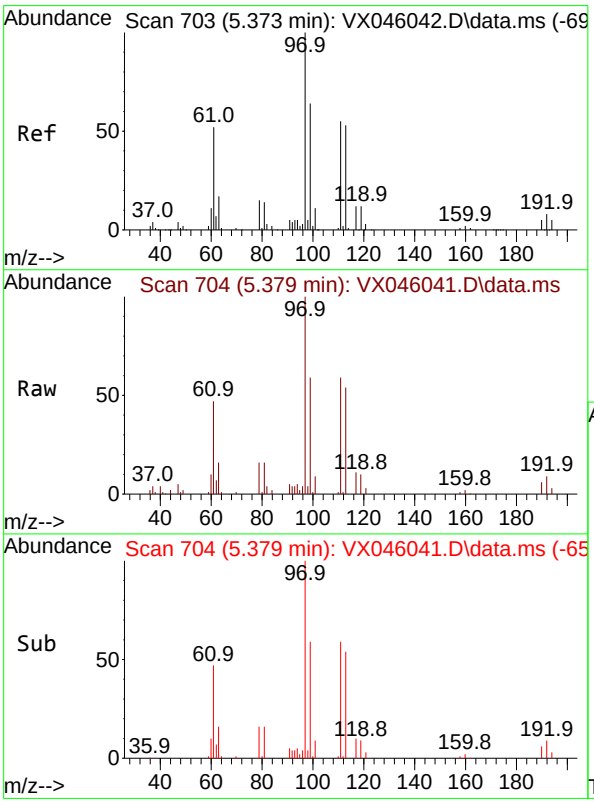
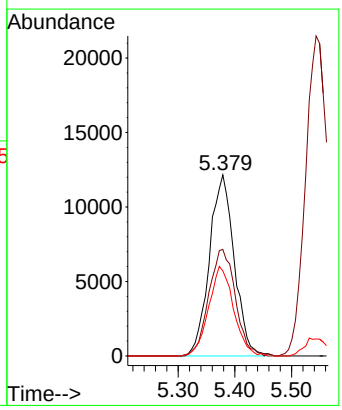
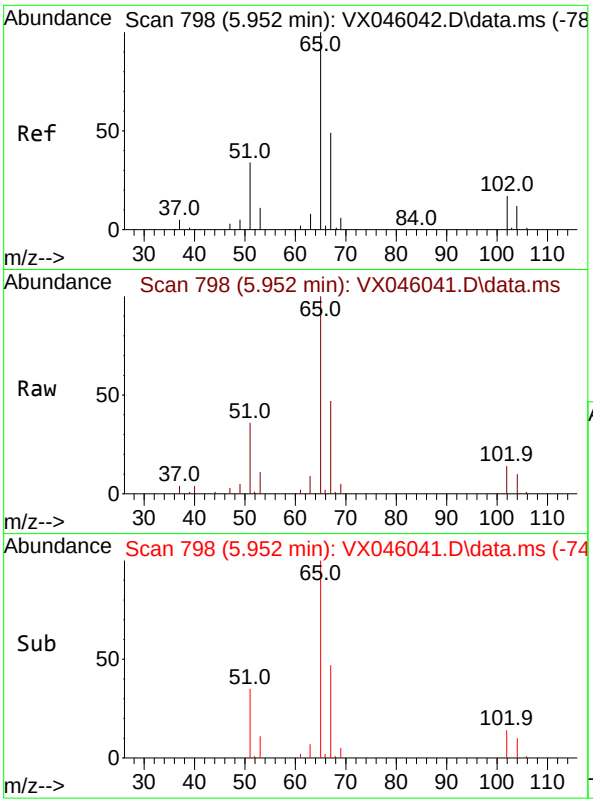



#32
1,1,1-Trichloroethane
Concen: 14.092 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 97 Resp: 37003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.8 | 51.8 | 77.6 |
| 61 | 49.5 | 40.1 | 60.1 |

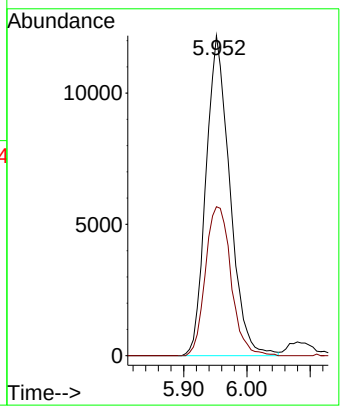





#33
1,2-Dichloroethane-d4
Concen: 12.820 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 65 Resp: 3190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.9 | 0.0 | 99.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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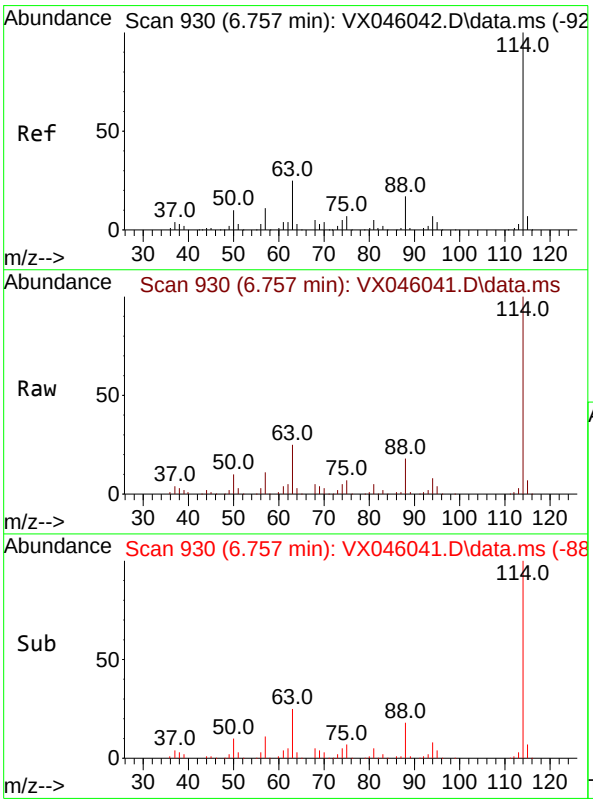
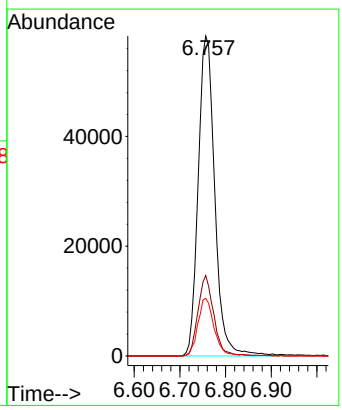
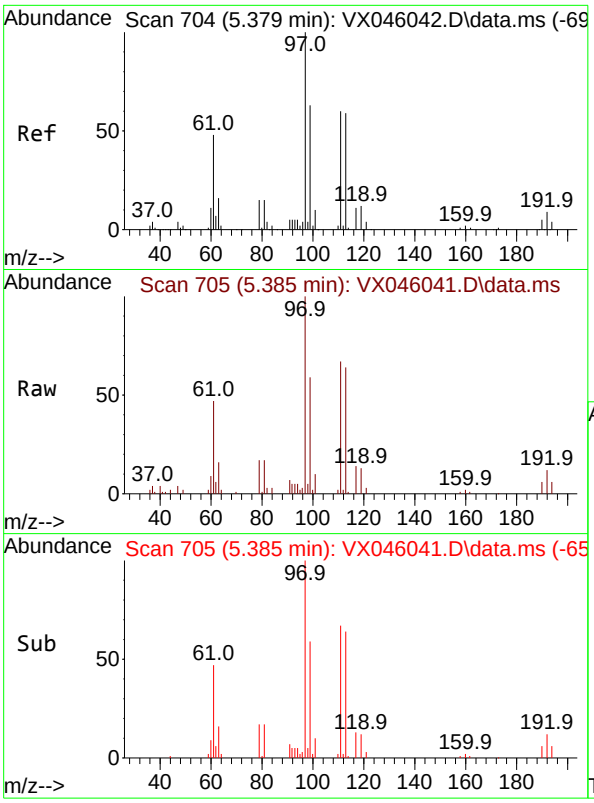



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:114 Resp: 147096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.2 | 0.0 | 49.2 |
| 88 | 18.0 | 0.0 | 33.6 |

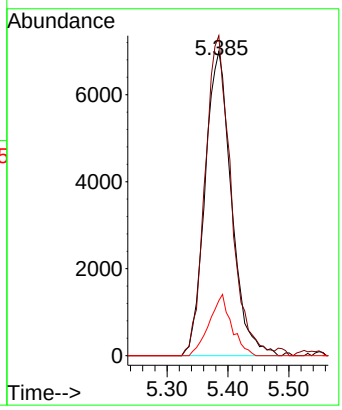





#35
Dibromofluoromethane
Concen: 12.804 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:113 Resp: 2111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.0 | 83.1 | 124.7 |
| 192 | 17.0 | 13.3 | 19.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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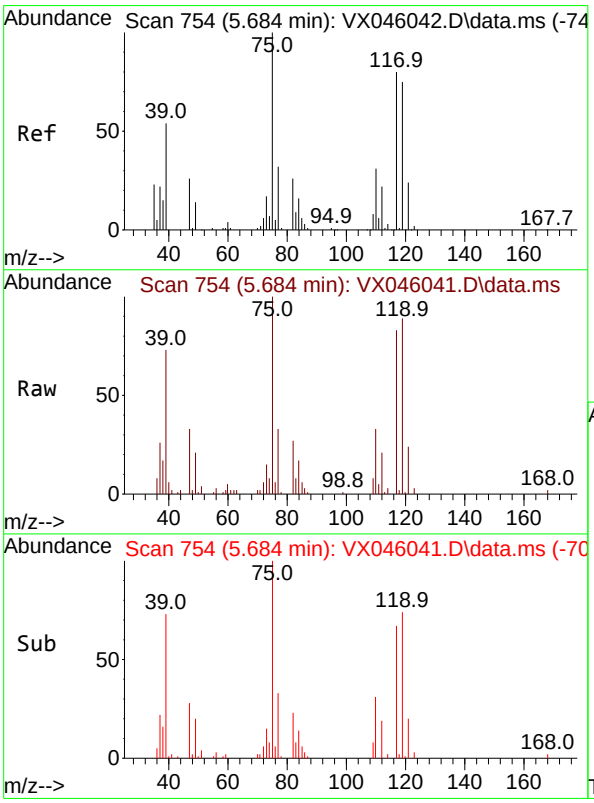
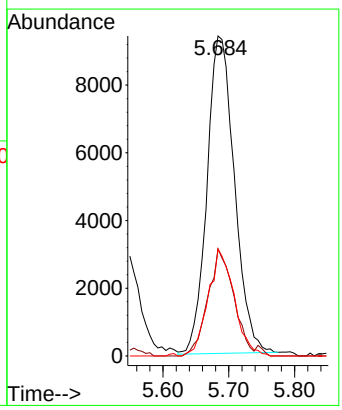
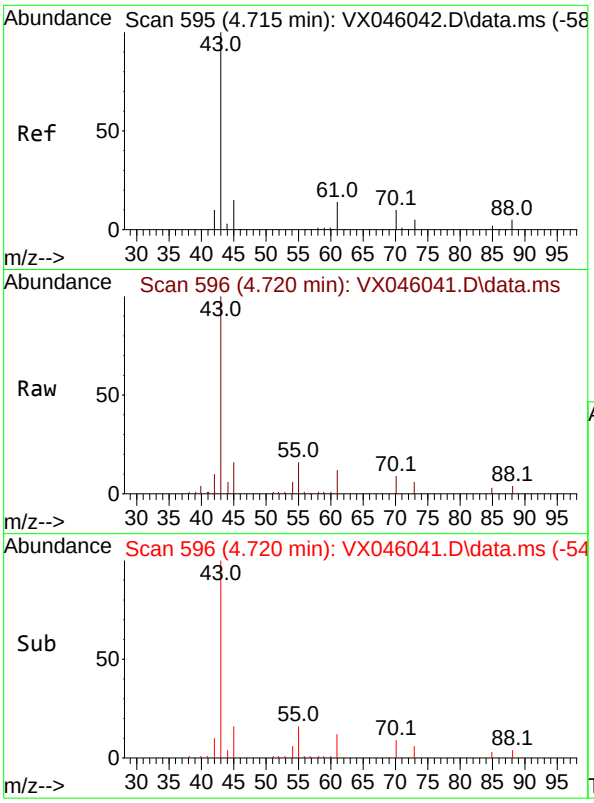



#36
1,1-Dichloropropene
Concen: 14.231 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 27242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 31.6 | 16.3 | 48.9 |
| 77 | 31.9 | 24.3 | 36.5 |






#37
Ethyl Acetate
Concen: 13.931 ug/l
RT: 4.720 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

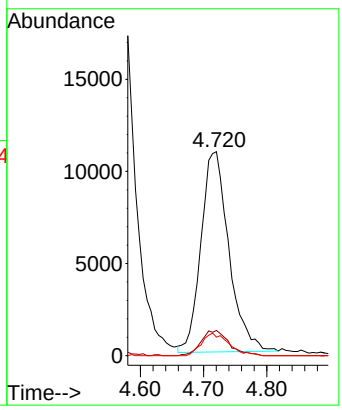
Tgt Ion: 43 Resp: 3345

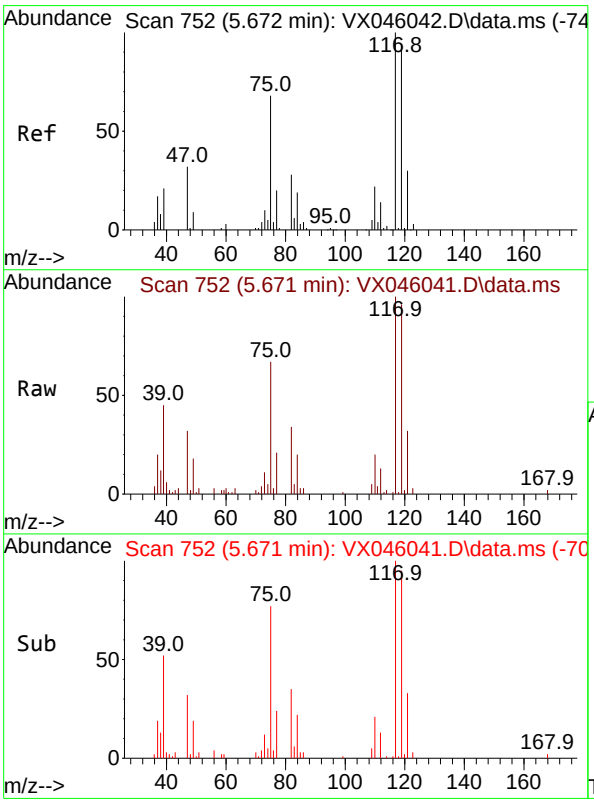
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 12.6 | 10.3 | 15.5 |
| 70 | 10.9 | 7.9 | 11.9 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

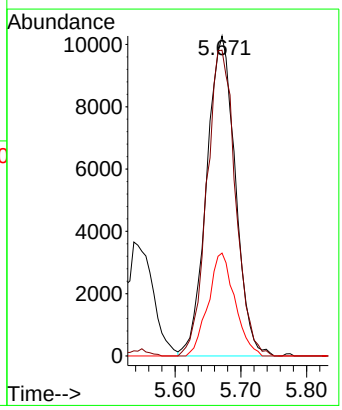


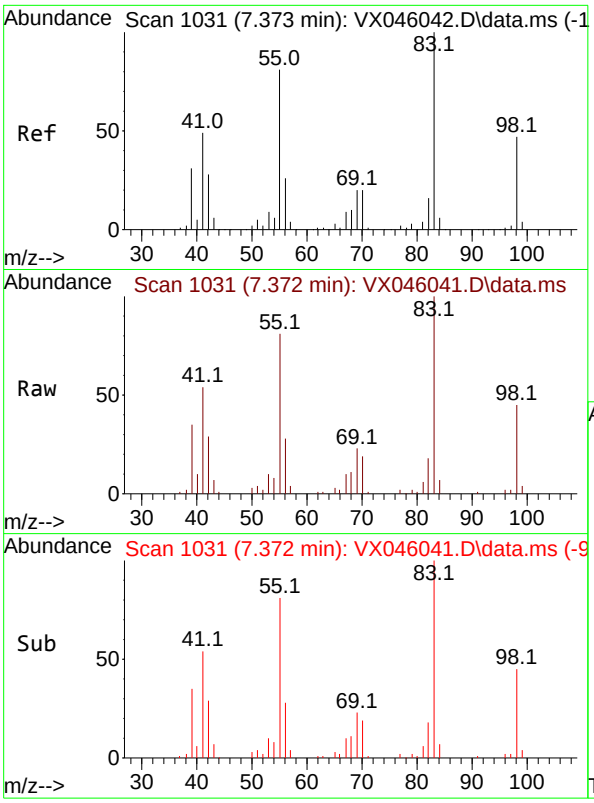




#38
Carbon Tetrachloride
Concen: 14.137 ug/l
RT: 5.671 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:117 Resp: 31091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.6 | 75.2 | 112.8 |
| 121 | 32.1 | 24.2 | 36.4 |

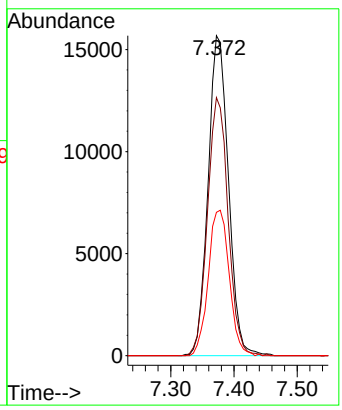





#39
Methylcyclohexane
Concen: 14.623 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 83 Resp: 3507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 80.7 | 64.7 | 97.1 |
| 98 | 44.8 | 37.4 | 56.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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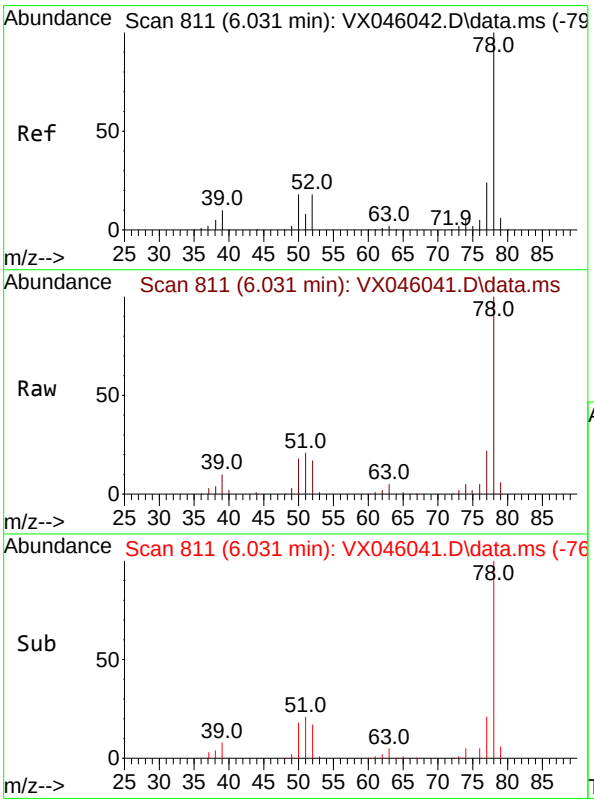
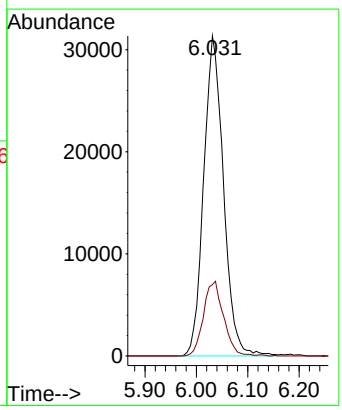
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

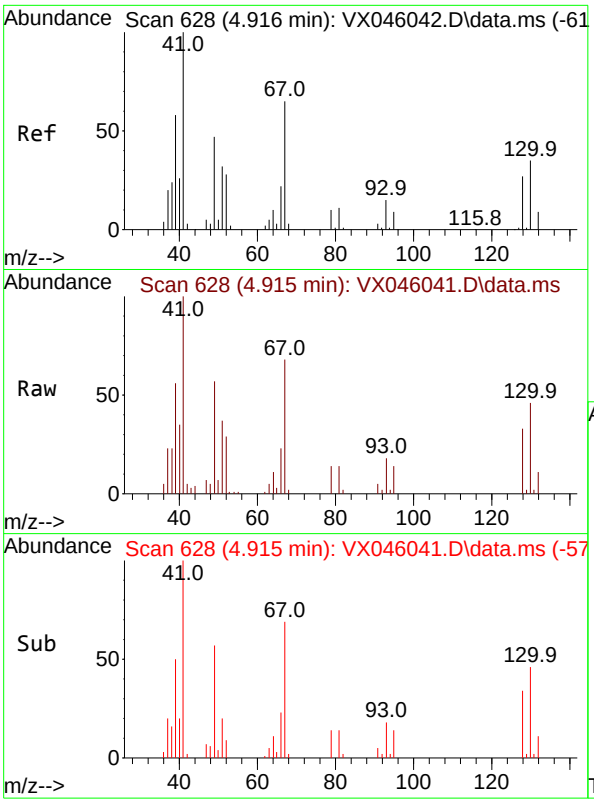



#40
Benzene
Concen: 14.140 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 78 Resp: 83898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.3 | 19.0 | 28.4 |

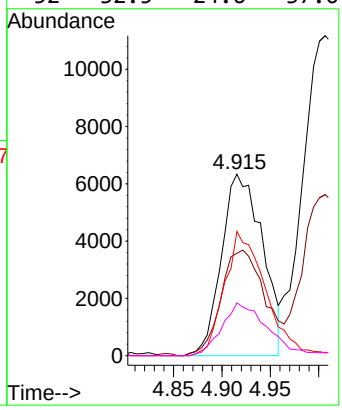





#41
Methacrylonitrile
Concen: 14.038 ug/l
RT: 4.915 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 41 Resp: 1873

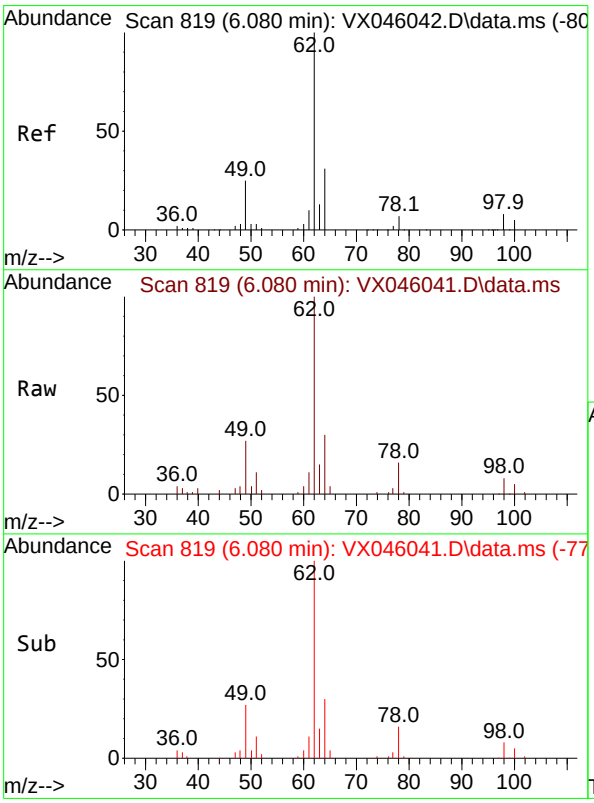
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 62.6 | 47.2 | 70.8 |
| 67 | 68.3 | 50.7 | 76.1 |
| 52 | 32.5 | 24.6 | 37.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

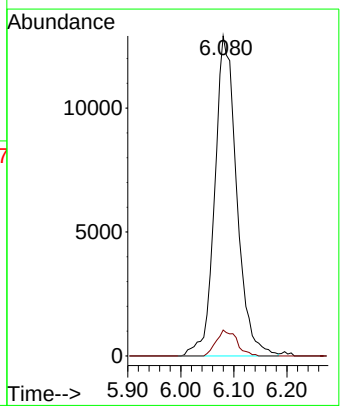
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

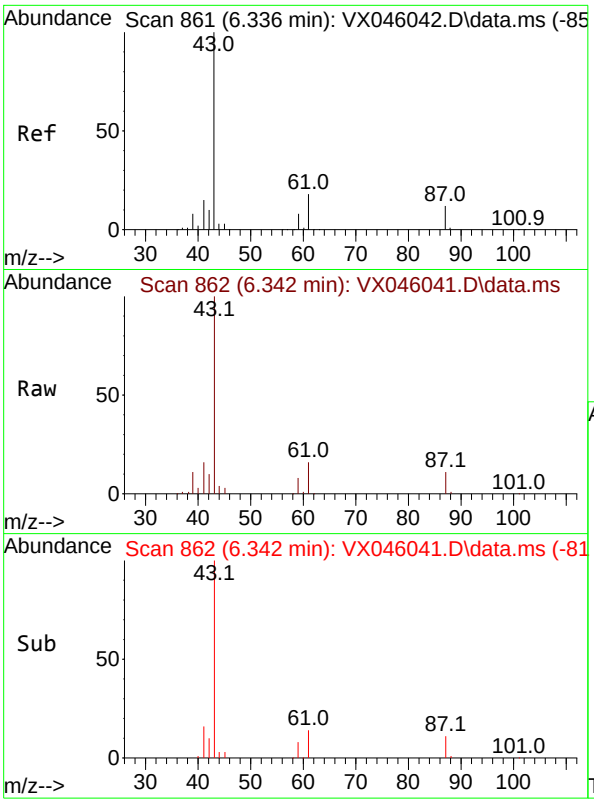



#42
1,2-Dichloroethane
Concen: 15.165 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 62 Resp: 37203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.6 | 0.0 | 15.2 |






#43
Isopropyl Acetate
Concen: 14.512 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

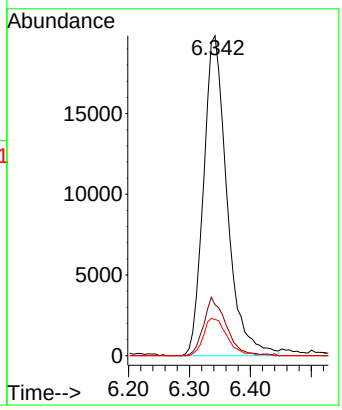
Tgt Ion: 43 Resp: 5327

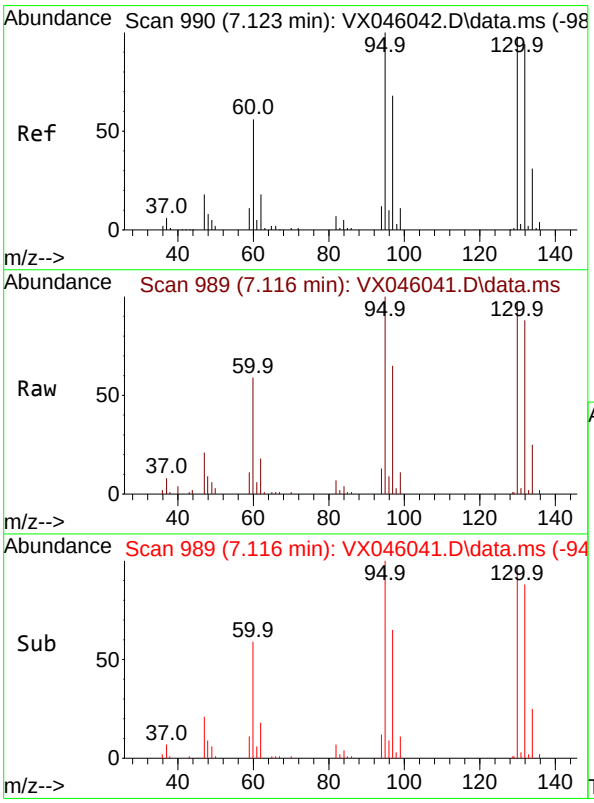
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 17.3 | 14.3 | 21.5 |
| 87 | 11.6 | 9.5 | 14.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

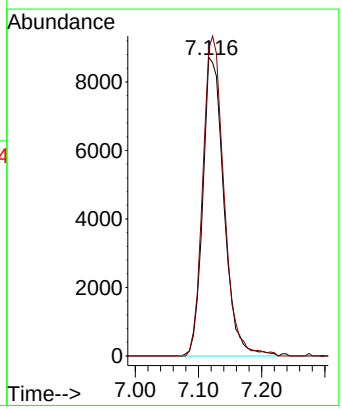


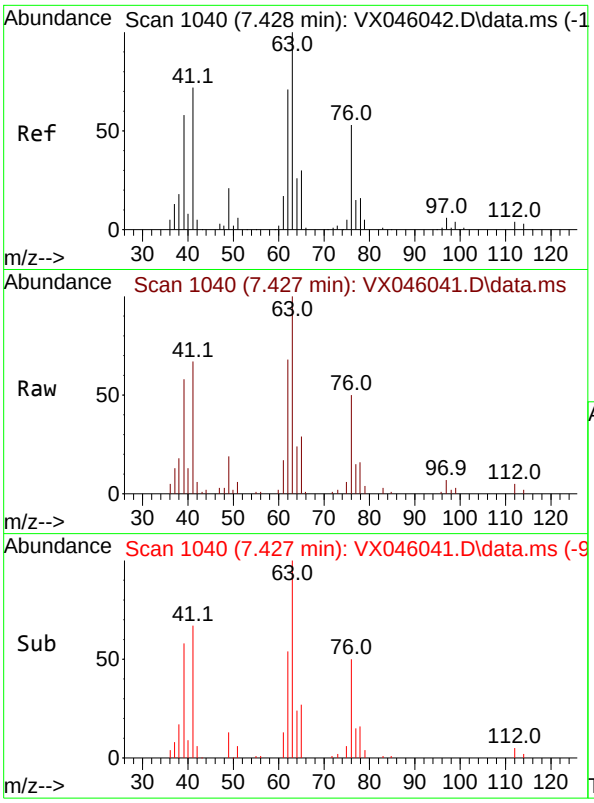




#44
Trichloroethene
Concen: 14.429 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:130 Resp: 20239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.8 | 0.0 | 204.2 |

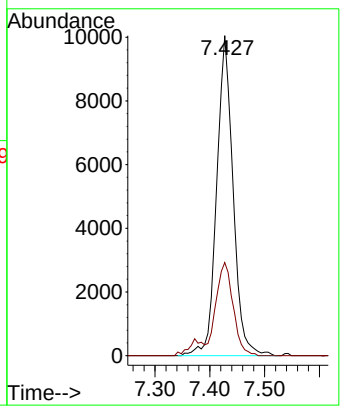





#45
1,2-Dichloropropane
Concen: 14.204 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 63 Resp: 2094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.1 | 24.1 | 36.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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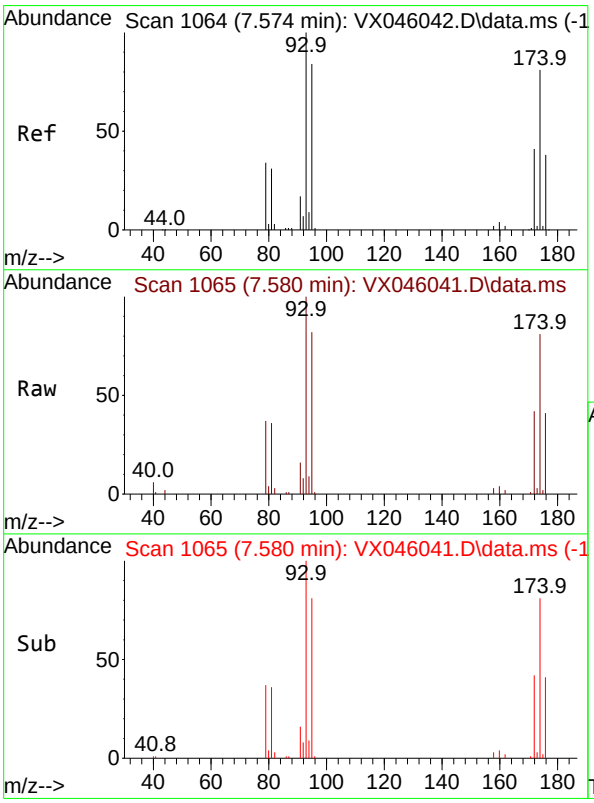
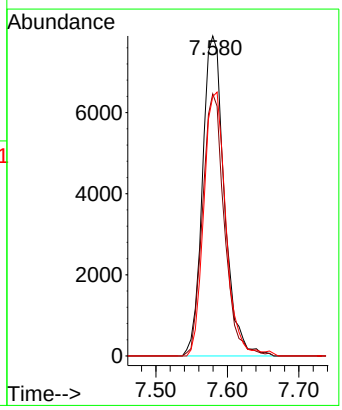
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

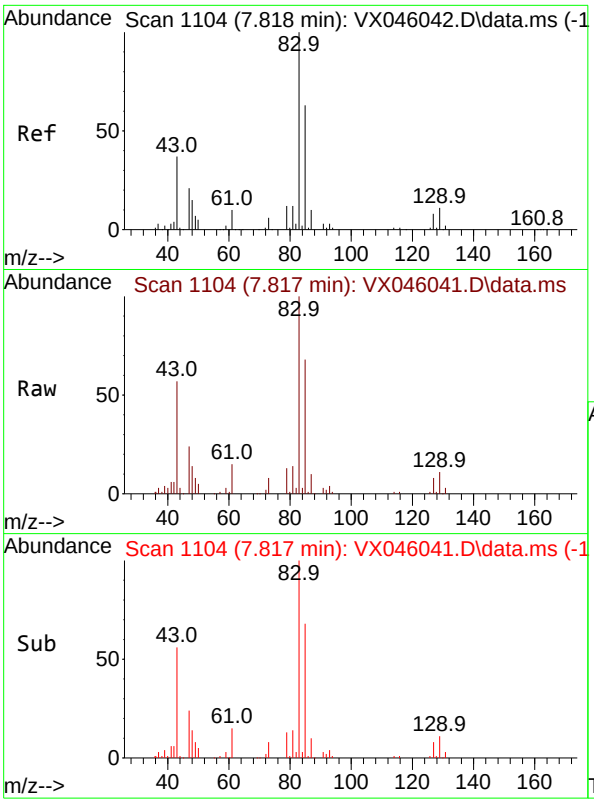



#46
Dibromomethane
Concen: 14.439 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 93 Resp: 16781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.5 | 65.6 | 98.4 |
| 174 | 83.1 | 68.2 | 102.2 |

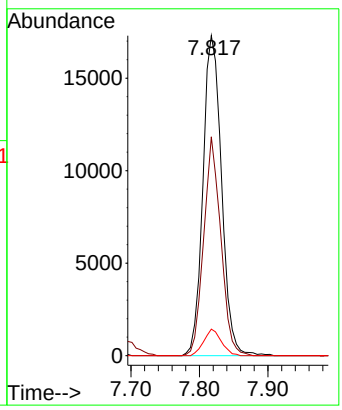





#47
Bromodichloromethane
Concen: 14.545 ug/l
RT: 7.817 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 83 Resp: 3276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 68.4 | 50.5 | 75.7 |
| 127 | 8.3 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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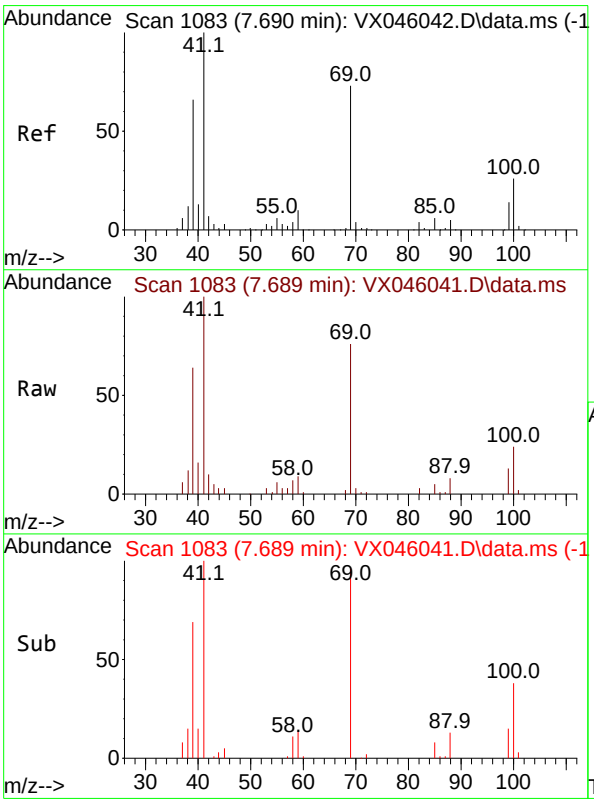
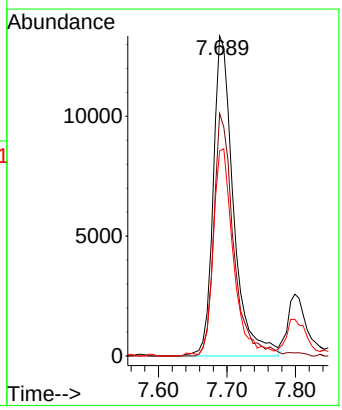
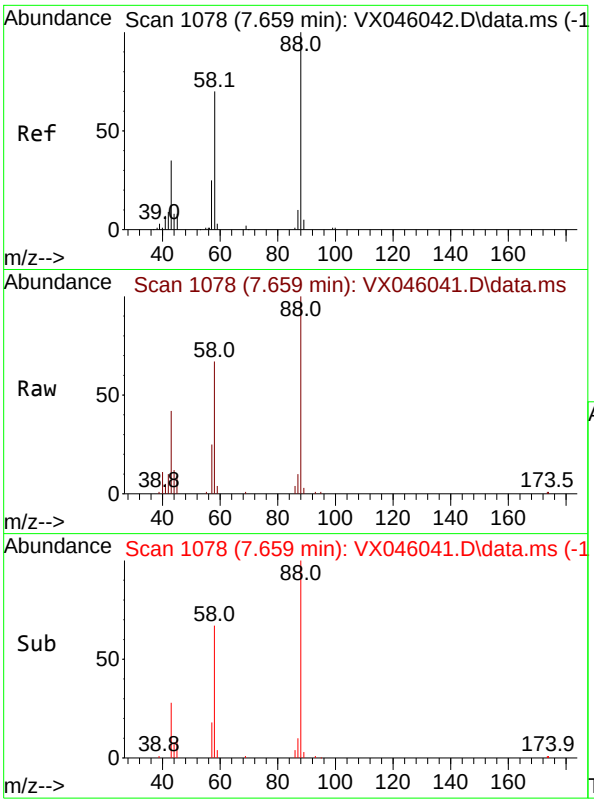



#48
Methyl methacrylate
Concen: 14.521 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 41 Resp: 27374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 73.5 | 58.5 | 87.7 |
| 39 | 64.9 | 51.7 | 77.5 |






#49
1,4-Dioxane
Concen: 282.442 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 88 Resp: 1058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 45.5 | 33.4 | 50.2 |
| 58 | 73.6 | 58.6 | 88.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

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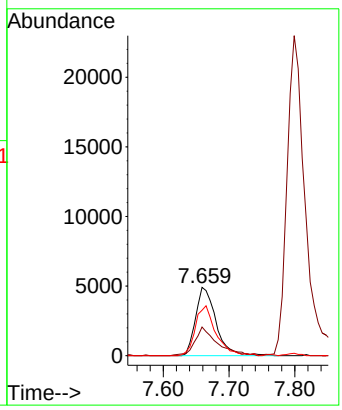
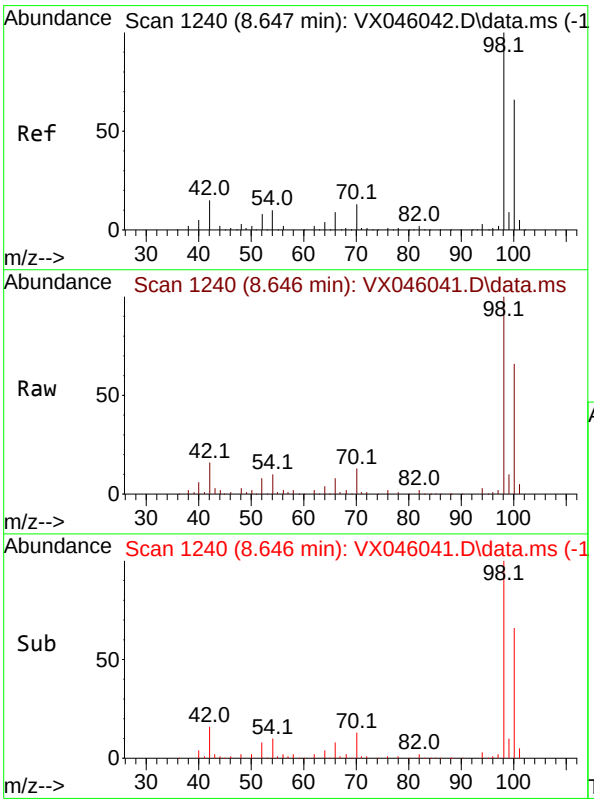
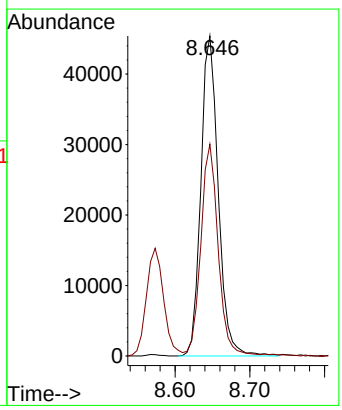


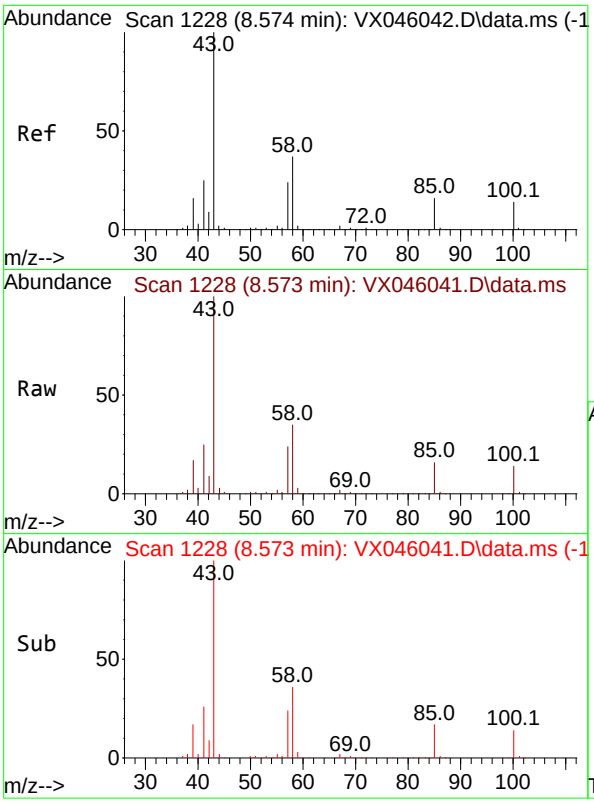




#50
Toluene-d8
Concen: 13.200 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 98 Resp: 73333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.8 | 53.5 | 80.3 |

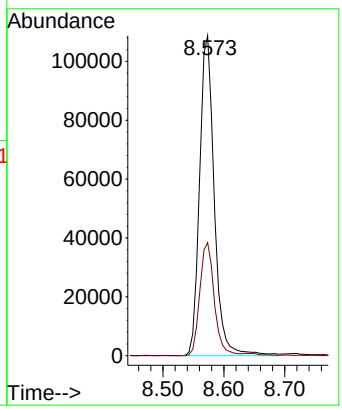





#51
4-Methyl-2-Pentanone
Concen: 75.775 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 18245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.8 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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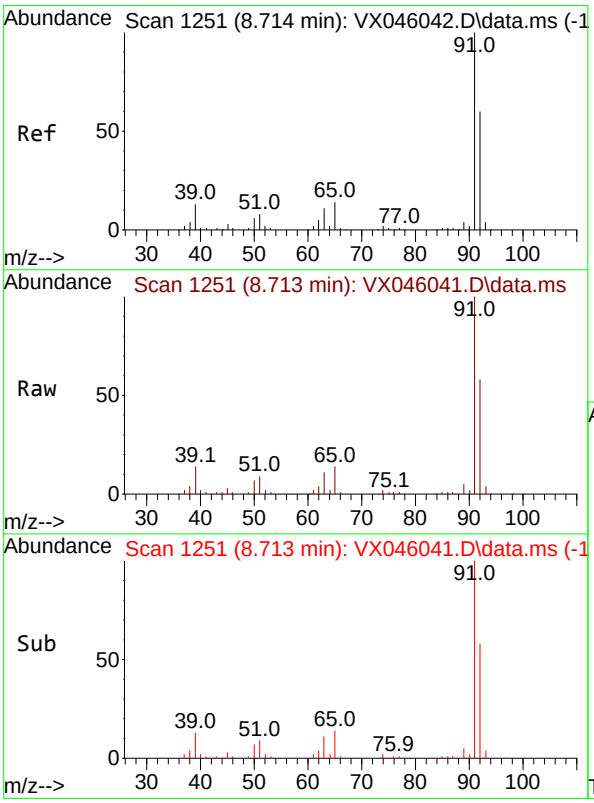
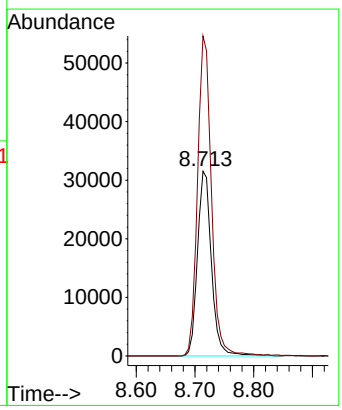
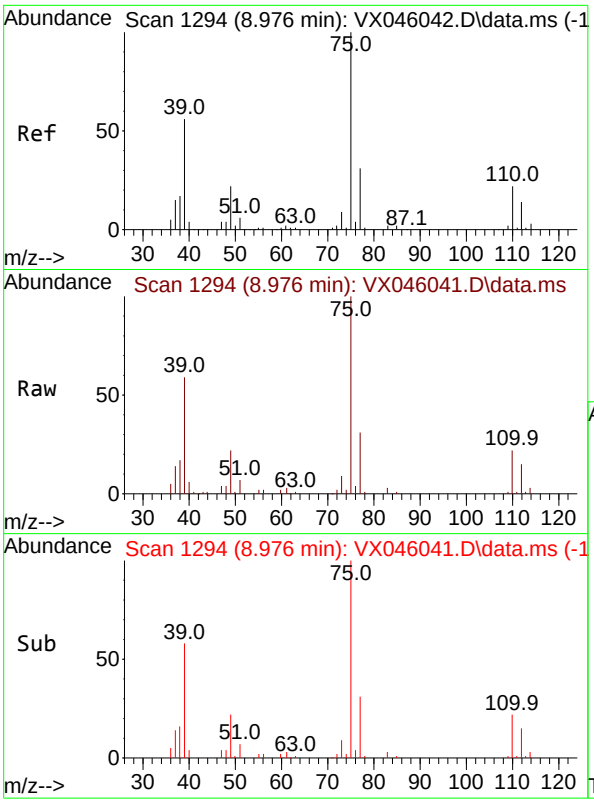



#52
Toluene
Concen: 14.788 ug/l
RT: 8.713 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 92 Resp: 52030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.2 | 136.6 | 205.0 |

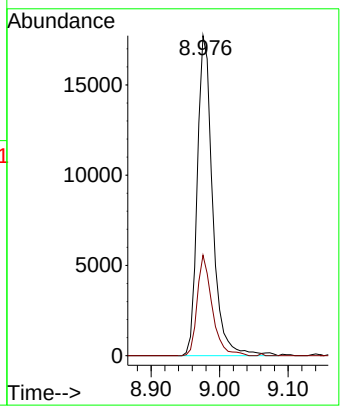





#53
t-1,3-Dichloropropene
Concen: 14.566 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 2754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.0 | 37.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

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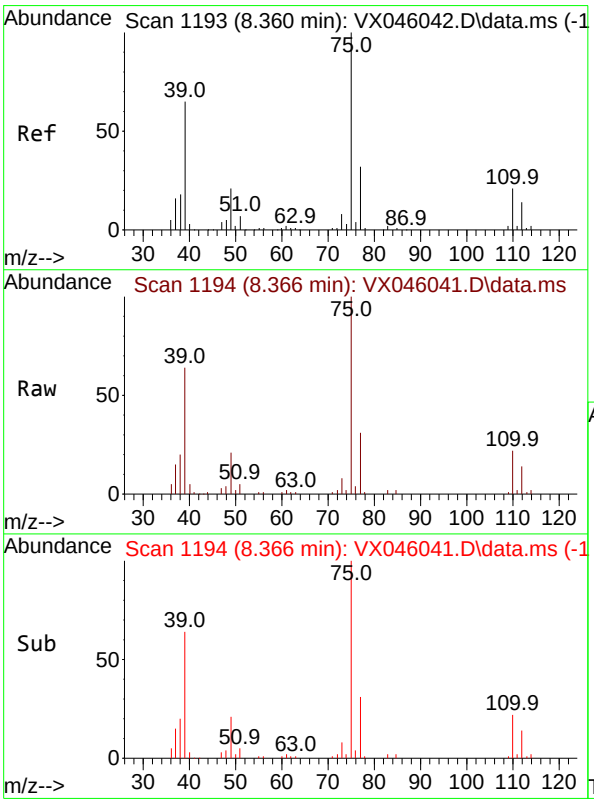
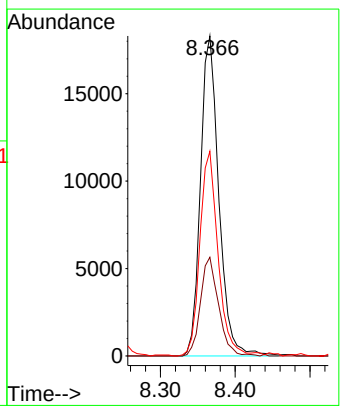
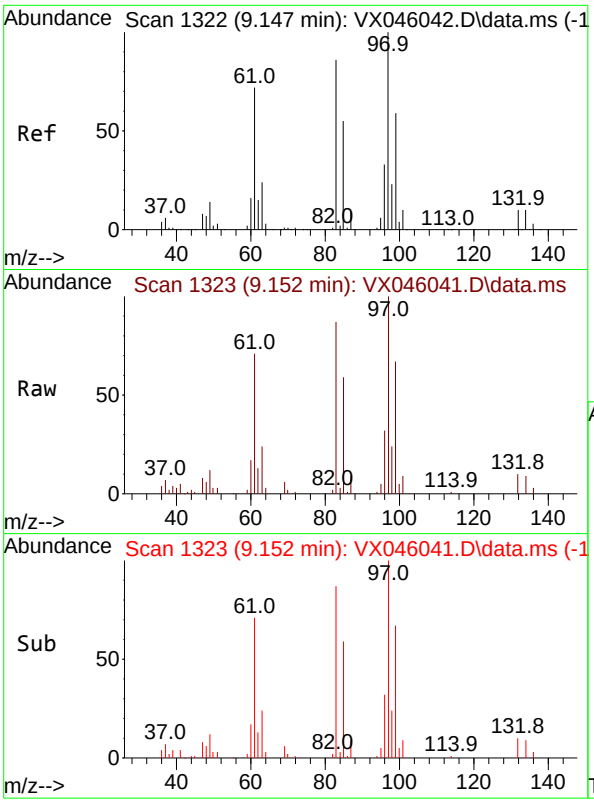



#54
cis-1,3-Dichloropropene
Concen: 14.154 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 31226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.8 | 25.4 | 38.0 |
| 39 | 64.0 | 52.2 | 78.4 |

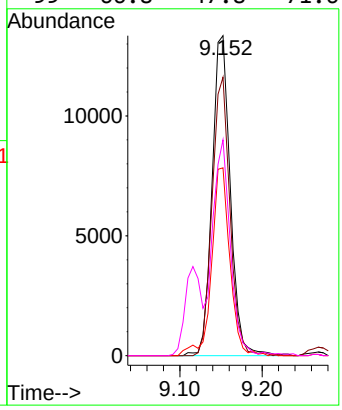





#55
1,1,2-Trichloroethane
Concen: 14.442 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 97 Resp: 2053

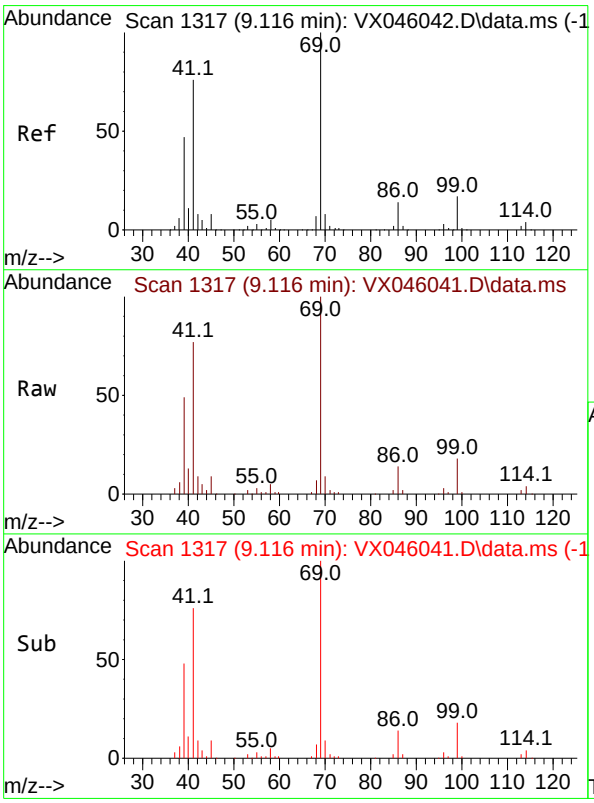
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.0 | 69.0 | 103.6 |
| 85 | 58.7 | 44.3 | 66.5 |
| 99 | 66.8 | 47.8 | 71.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

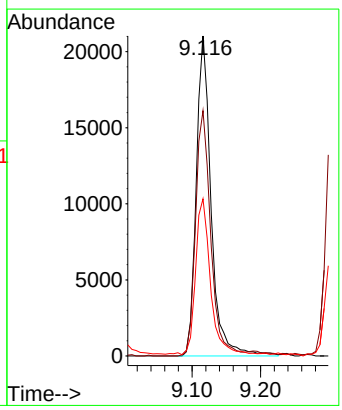
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

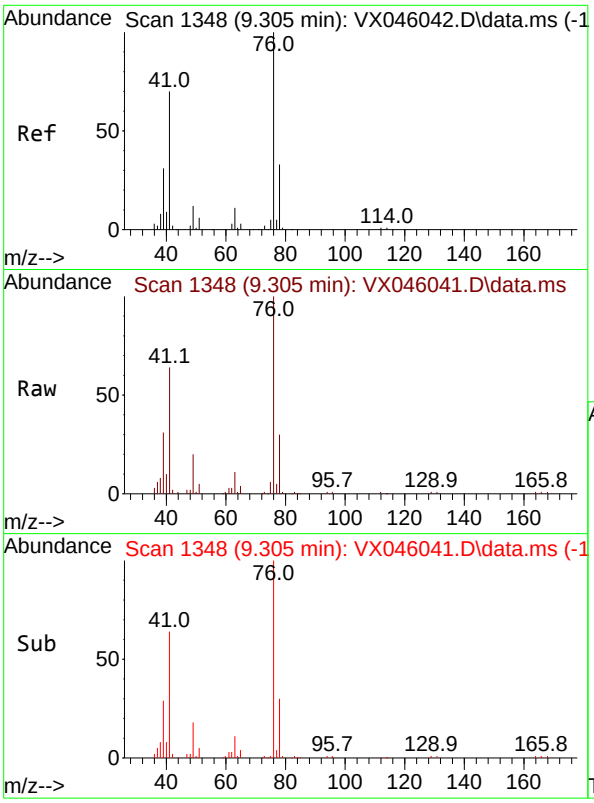



#56
Ethyl methacrylate
Concen: 14.425 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 69 Resp: 31787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 78.2 | 60.8 | 91.2 |
| 39 | 49.3 | 39.0 | 58.6 |

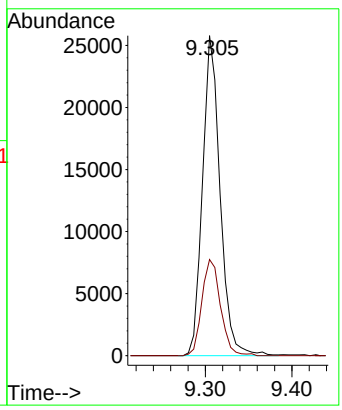





#57
1,3-Dichloropropane
Concen: 14.417 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 76 Resp: 3634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.8 | 26.3 | 39.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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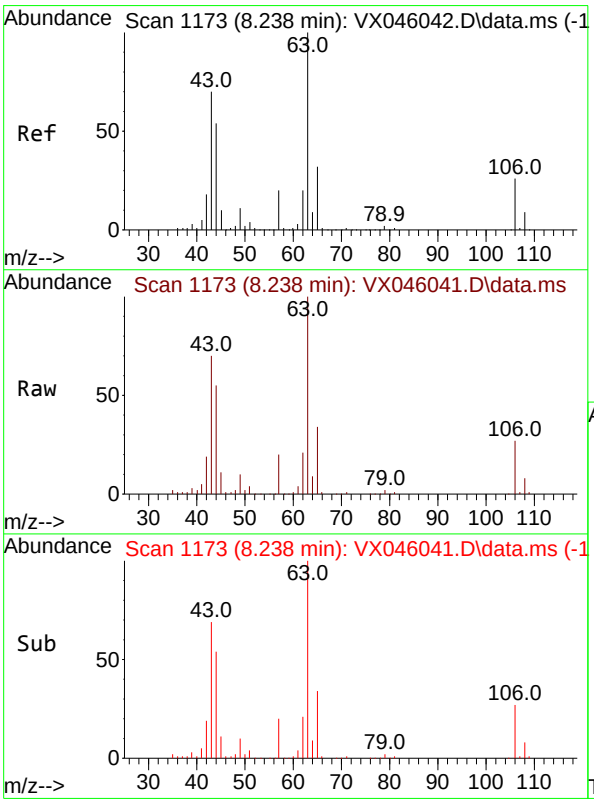
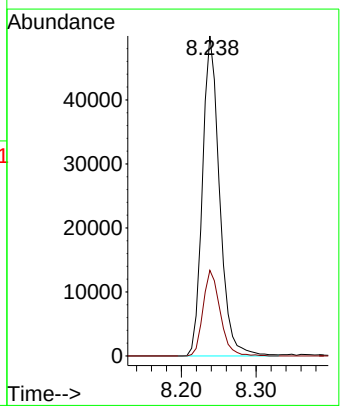
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

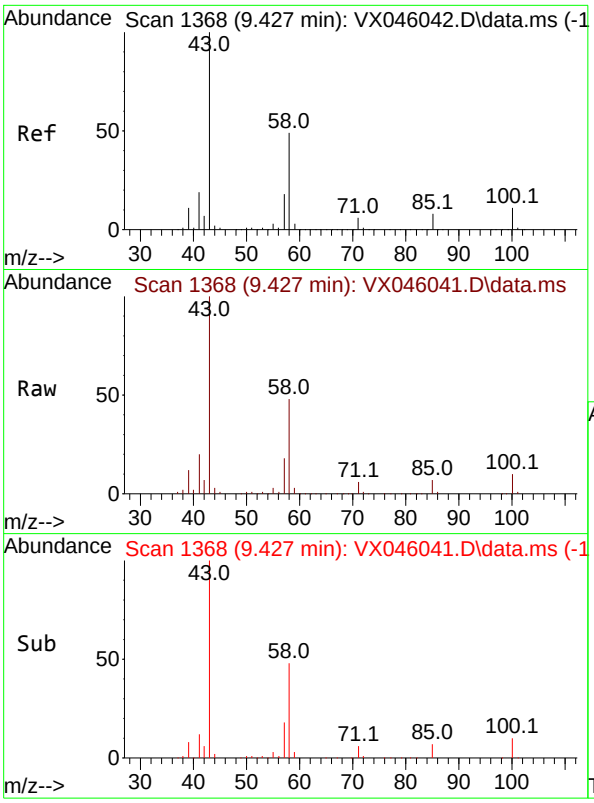



#58
2-Chloroethyl Vinyl ether
Concen: 80.312 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 63 Resp: 79531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.7 | 21.5 | 32.3 |






#59
2-Hexanone
Concen: 74.997 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 13705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 48.7 | 24.9 | 74.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
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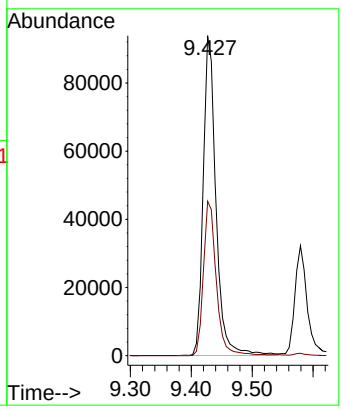
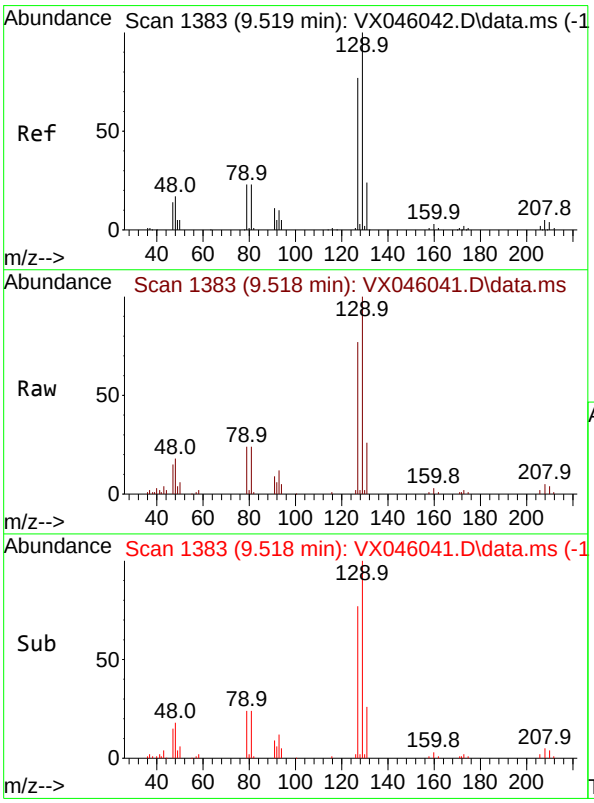
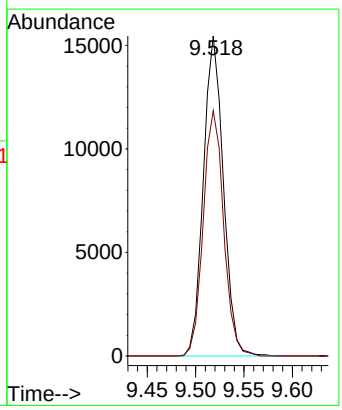


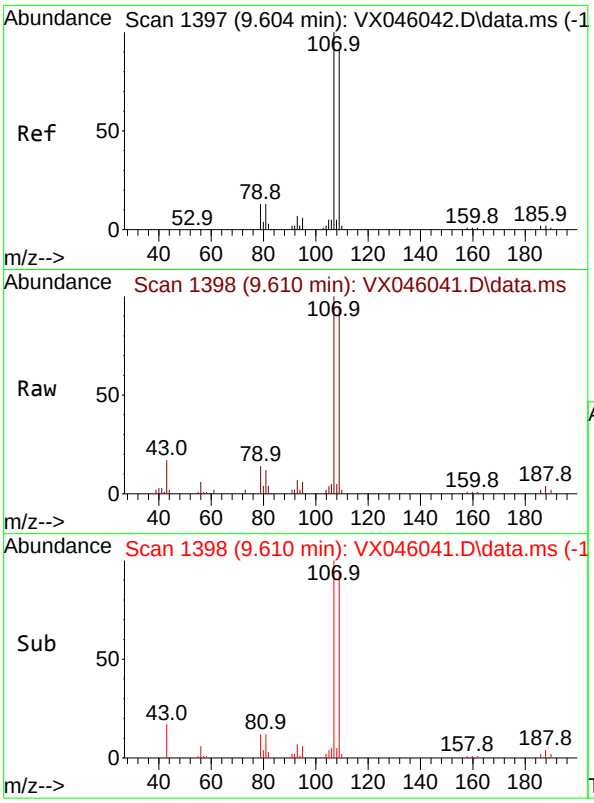




#60
Dibromochloromethane
Concen: 14.387 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:129 Resp: 22267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.0 | 39.3 | 117.8 |

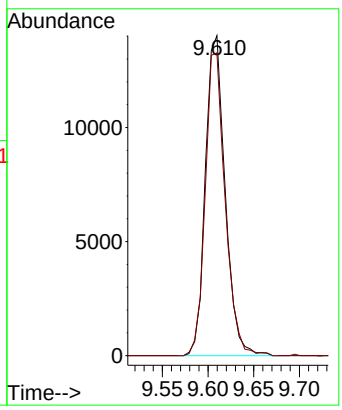





#61
1,2-Dibromoethane
Concen: 14.458 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:107 Resp: 2111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.3 | 73.3 | 109.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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Reviewed By :John Carlone 05/06/2025
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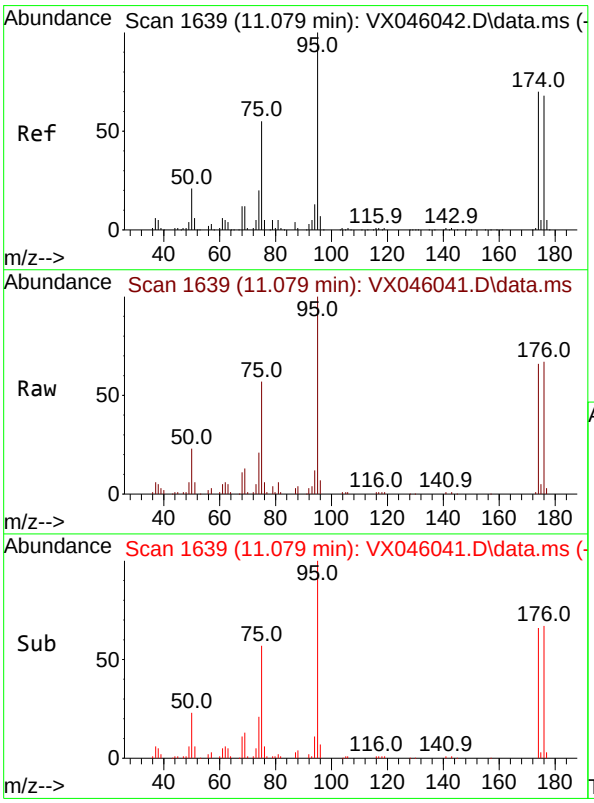
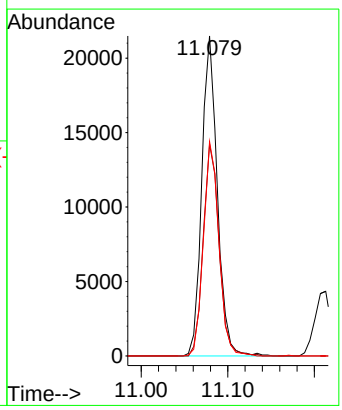
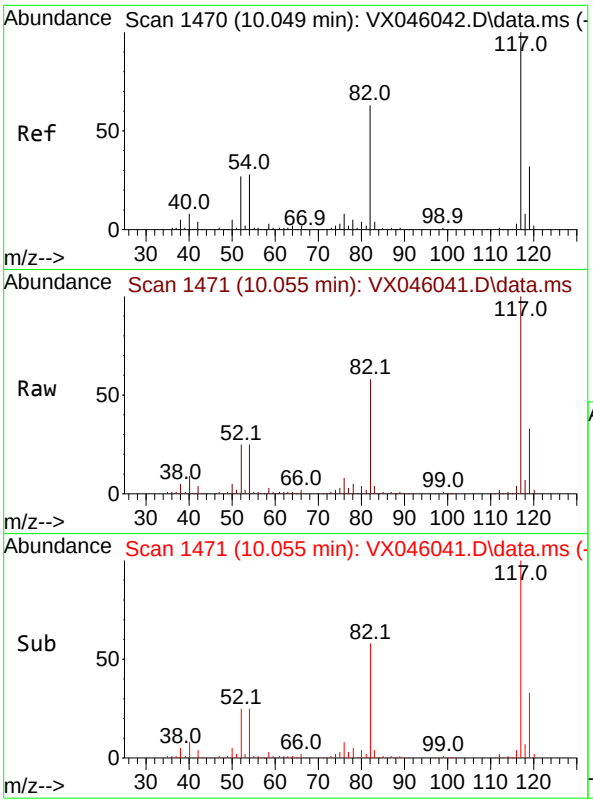



#62
4-Bromofluorobenzene
Concen: 13.236 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 95 Resp: 26760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.4 | 0.0 | 135.8 |
| 176 | 67.0 | 0.0 | 131.4 |

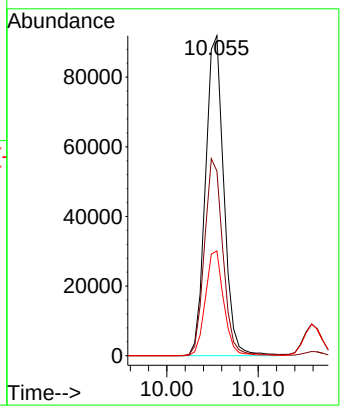





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:117 Resp: 12782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.7 | 50.6 | 76.0 |
| 119 | 32.7 | 25.8 | 38.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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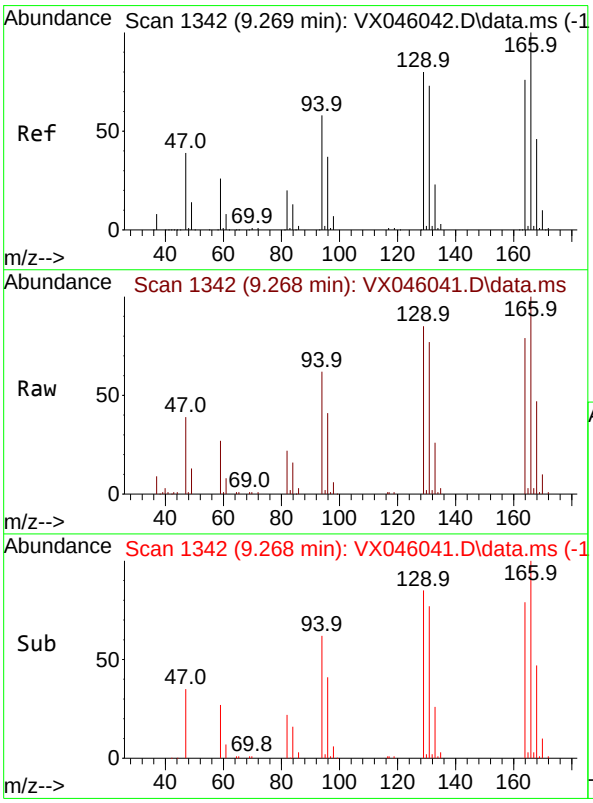
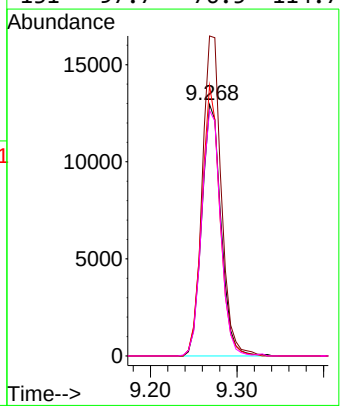
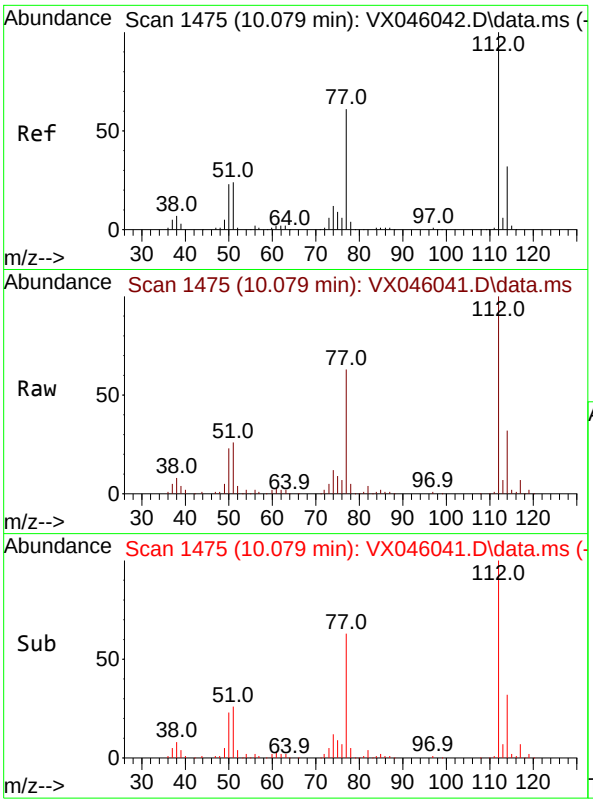



#64
Tetrachloroethene
Concen: 15.263 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:164 Resp: 19924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.2 | 105.0 | 157.6 |
| 129 | 107.6 | 83.5 | 125.3 |
| 131 | 97.7 | 76.5 | 114.7 |

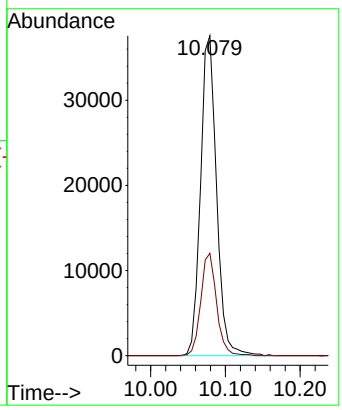





#65
Chlorobenzene
Concen: 14.202 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:112 Resp: 5586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.0 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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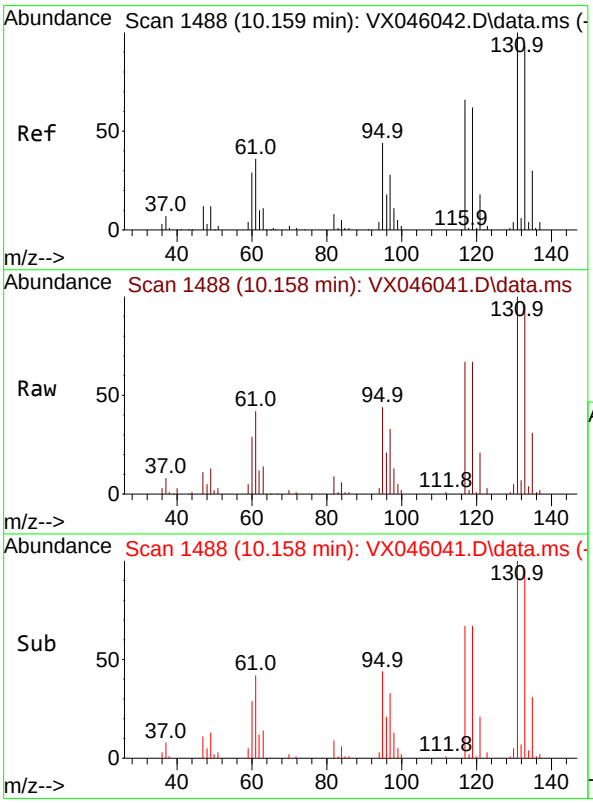
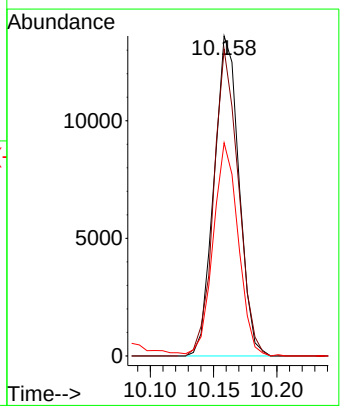
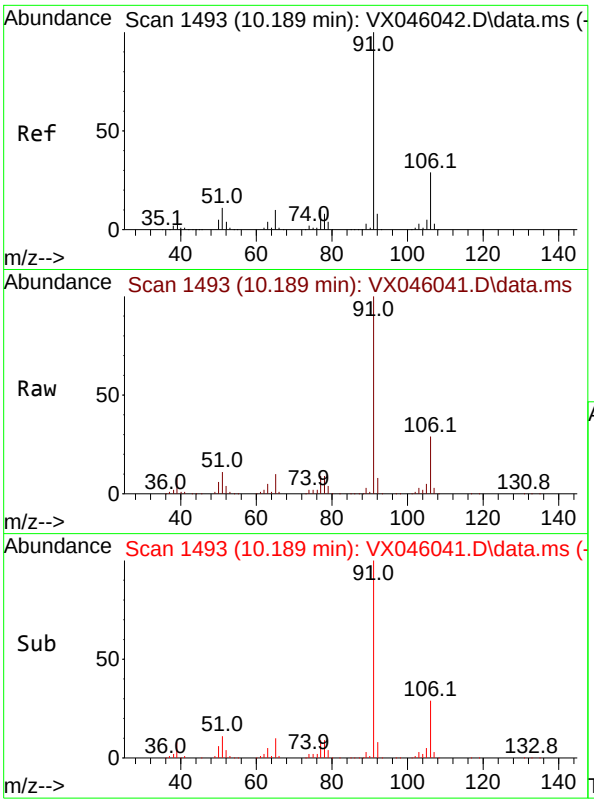



#66
1,1,1,2-Tetrachloroethane
Concen: 14.231 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:131 Resp: 18671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.5 | 47.3 | 141.9 |
| 119 | 66.7 | 31.6 | 95.0 |

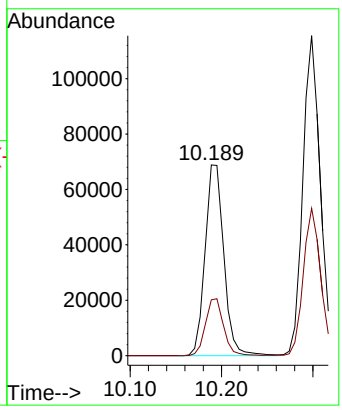





#67
Ethyl Benzene
Concen: 14.631 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 91 Resp: 9811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.3 | 23.4 | 35.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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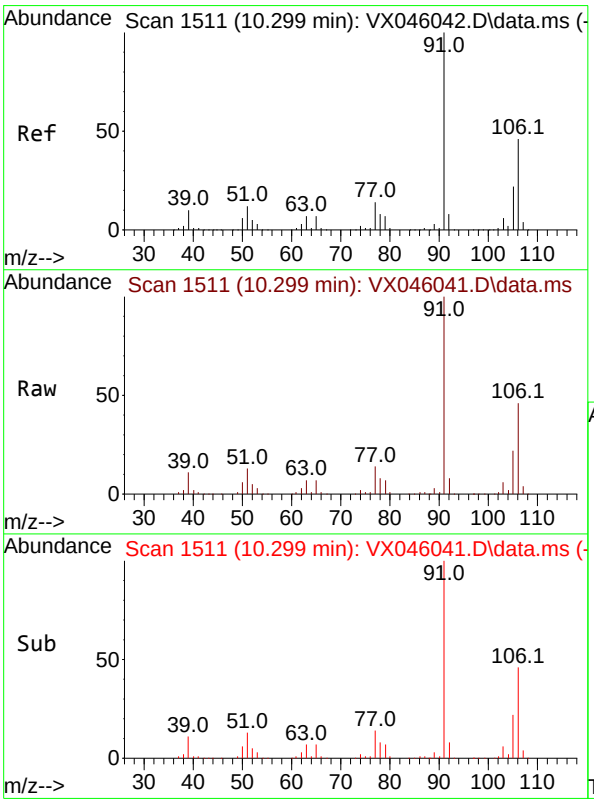
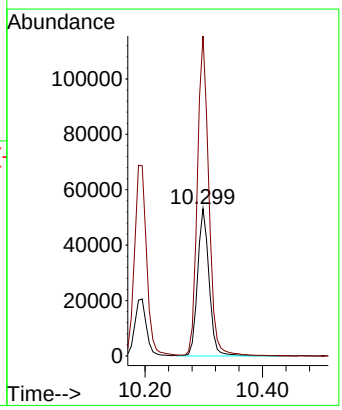
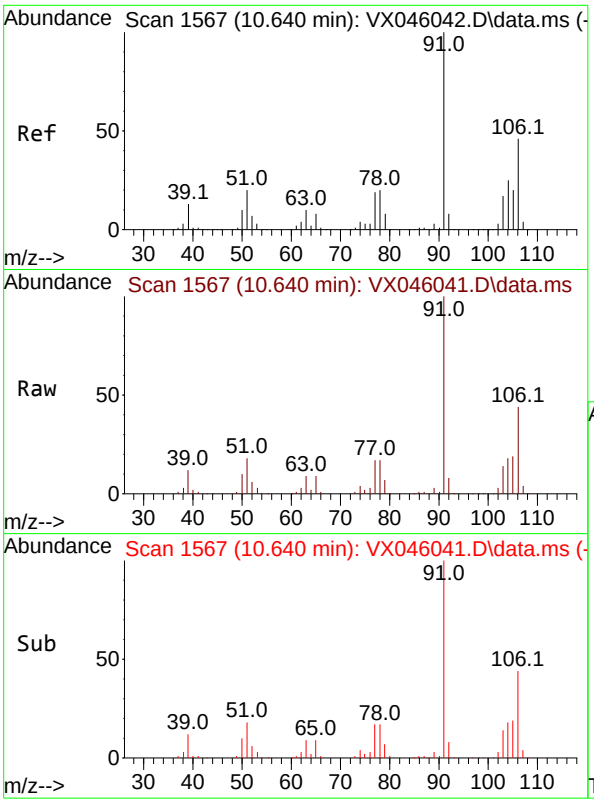



#68
m/p-Xylenes
Concen: 29.806 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:106 Resp: 72202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.1 | 171.2 | 256.8 |

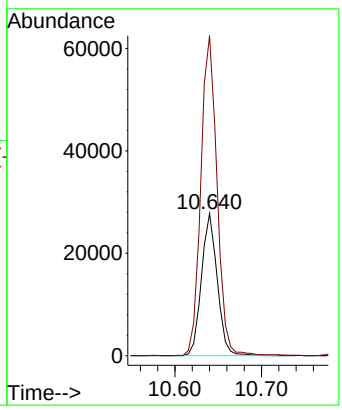





#69
o-Xylene
Concen: 14.408 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:106 Resp: 3517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 231.7 | 112.7 | 338.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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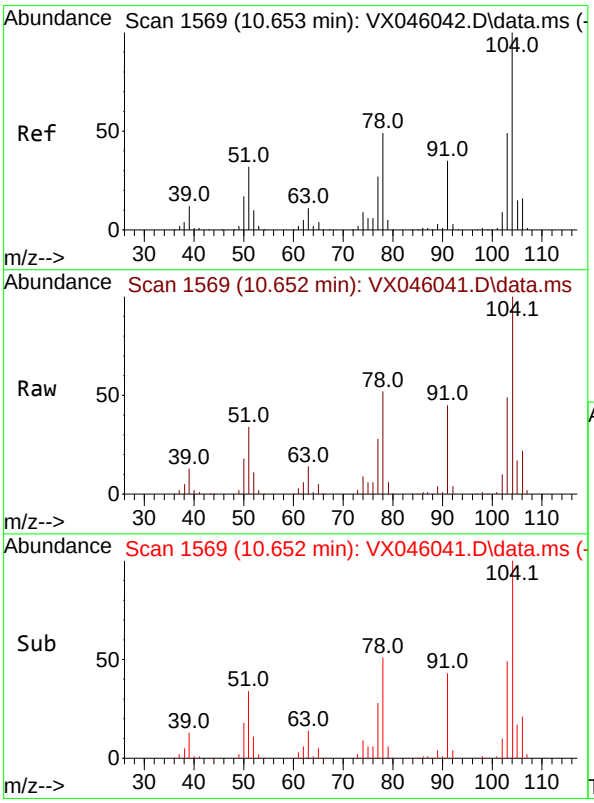
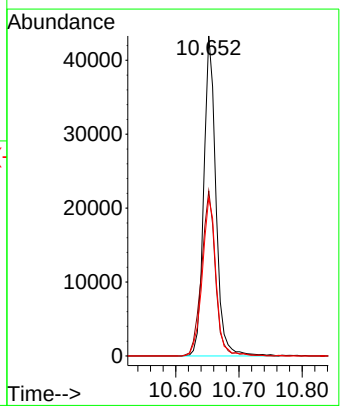
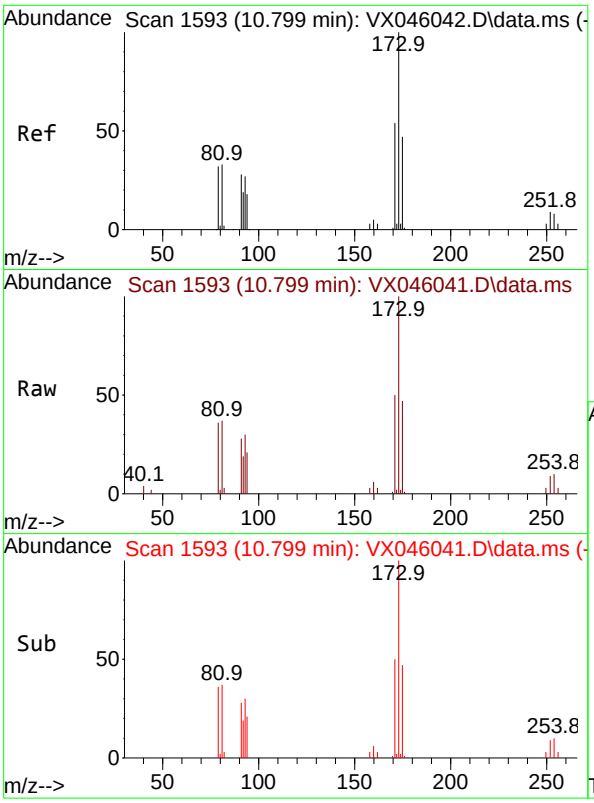



#70
Styrene
Concen: 14.853 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:104 Resp: 58034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 58.7 | 45.7 | 68.5 |
| 103 | 55.6 | 43.7 | 65.5 |

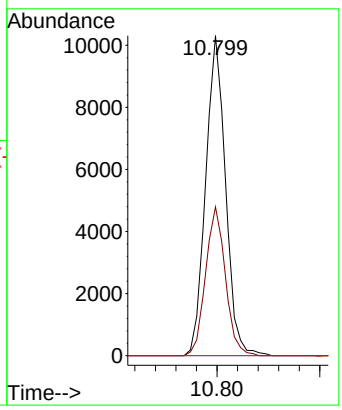





#71
Bromoform
Concen: 14.030 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:173 Resp: 1382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.4 | 23.4 | 70.0 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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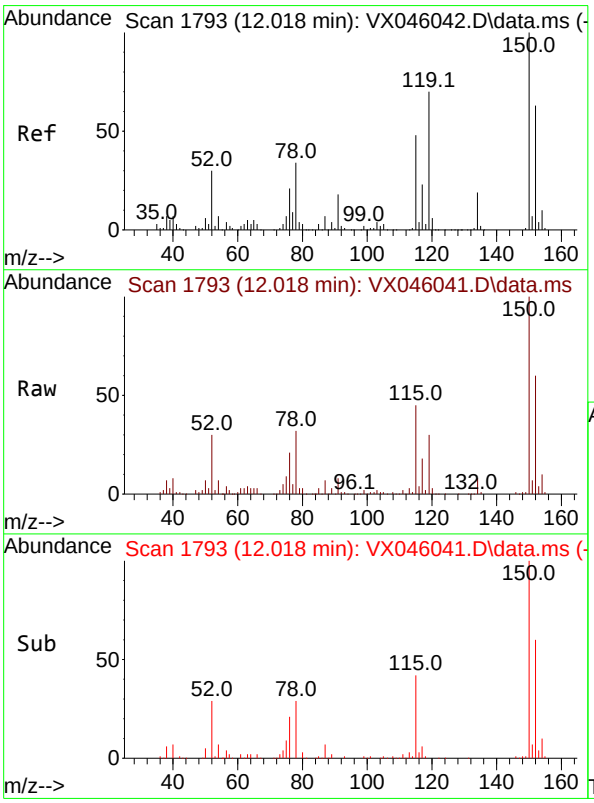
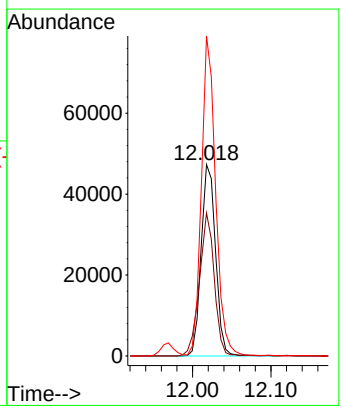
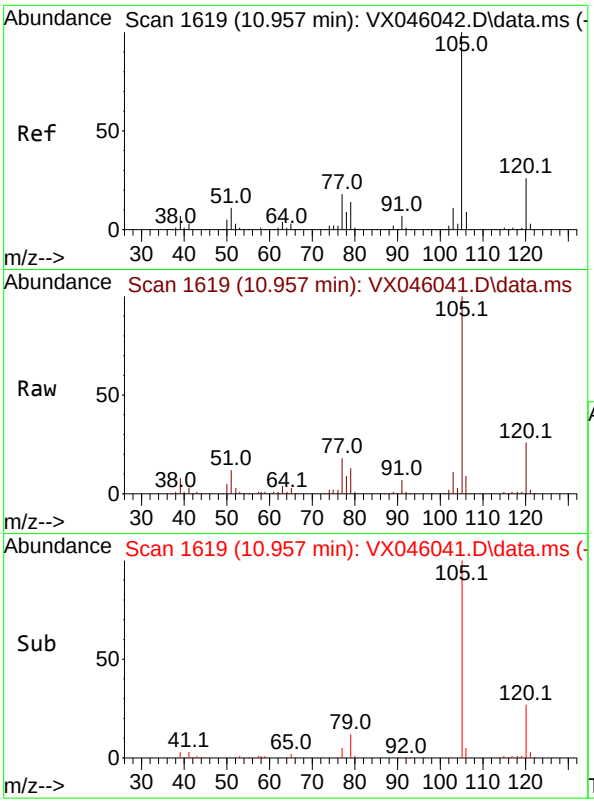



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:152 Resp: 60503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 76.6 | 46.9 | 140.7 |
| 150 | 163.6 | 0.0 | 351.0 |

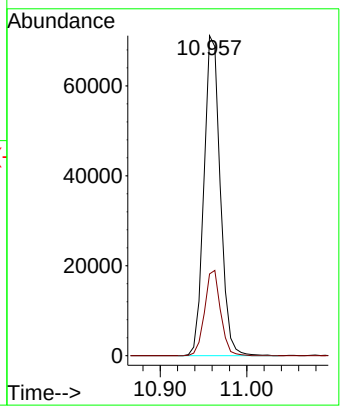





#73
Isopropylbenzene
Concen: 14.096 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:105 Resp: 9301

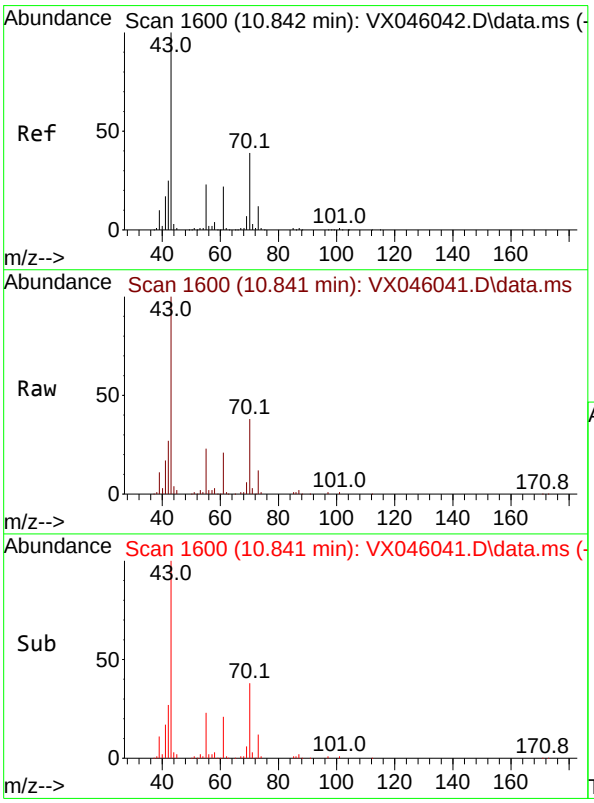
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 12.8 | 38.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

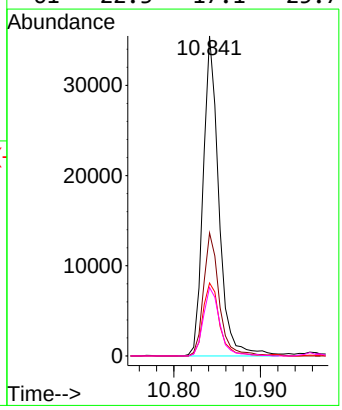
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

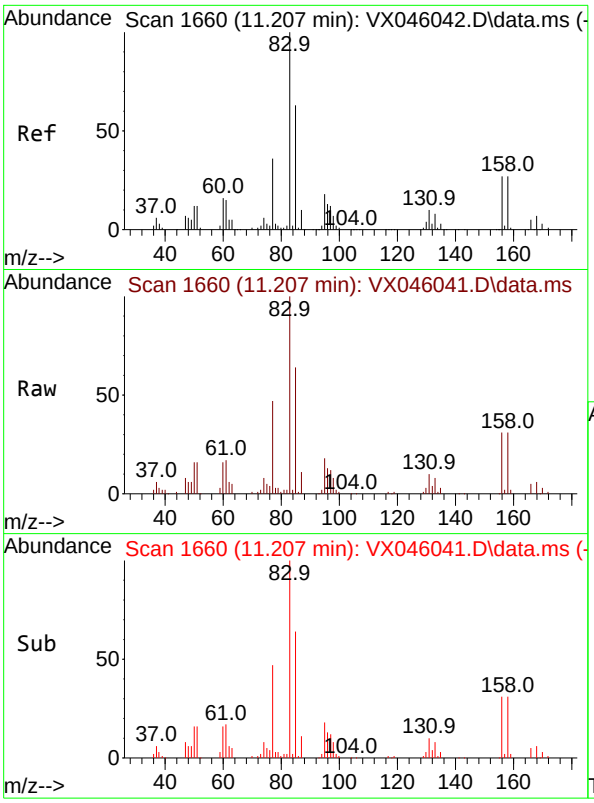



#74
N-amyl acetate
Concen: 13.581 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 44684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 38.5 | 30.9 | 46.3 |
| 55 | 24.1 | 18.7 | 28.1 |
| 61 | 22.3 | 17.1 | 25.7 |

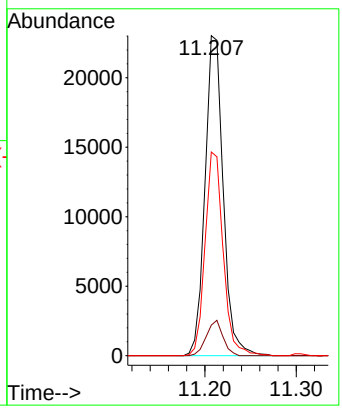





#75
1,1,2,2-Tetrachloroethane
Concen: 13.560 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 83 Resp: 3183

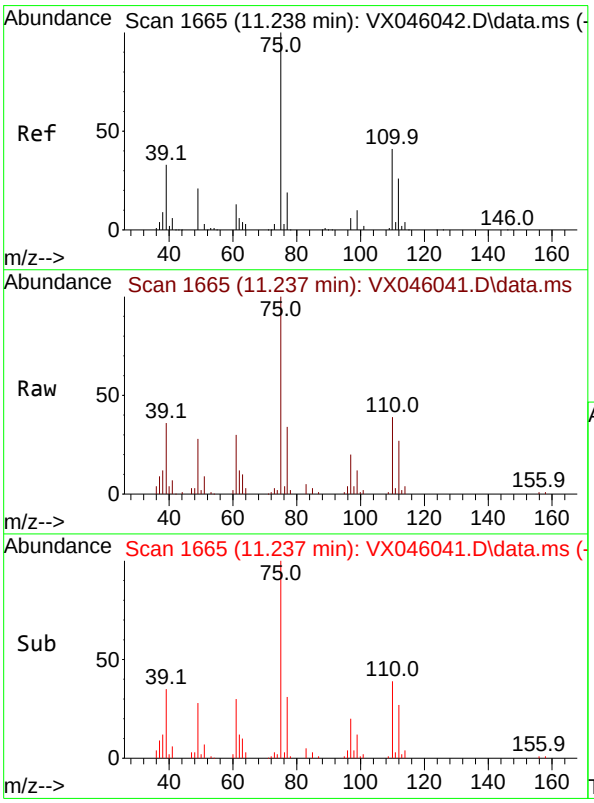
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.1 | 5.0 | 14.9 |
| 85 | 63.3 | 31.9 | 95.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

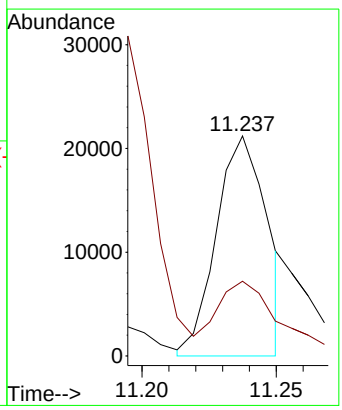
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

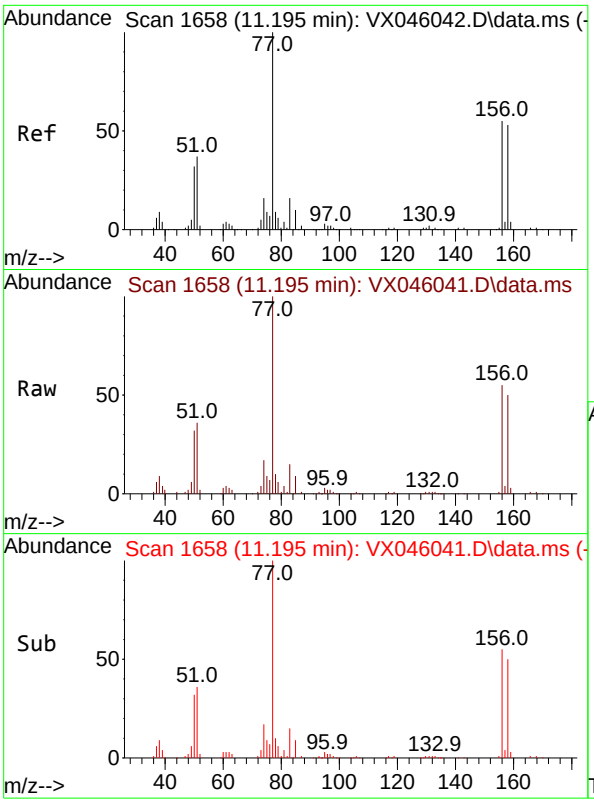



#76
1,2,3-Trichloropropane
Concen: 11.039 ug/l m
RT: 11.237 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 27845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 43.0 | 20.5 | 61.5 |

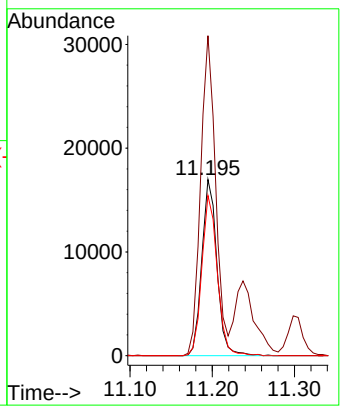





#77
Bromobenzene
Concen: 14.212 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:156 Resp: 2169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 179.9 | 92.8 | 278.3 |
| 158 | 93.1 | 48.8 | 146.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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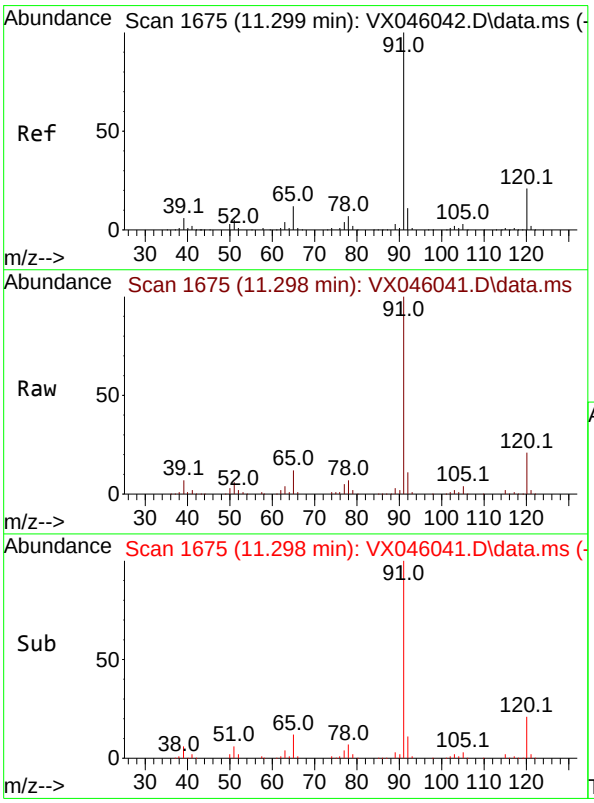
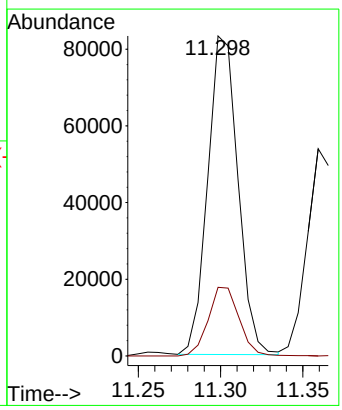
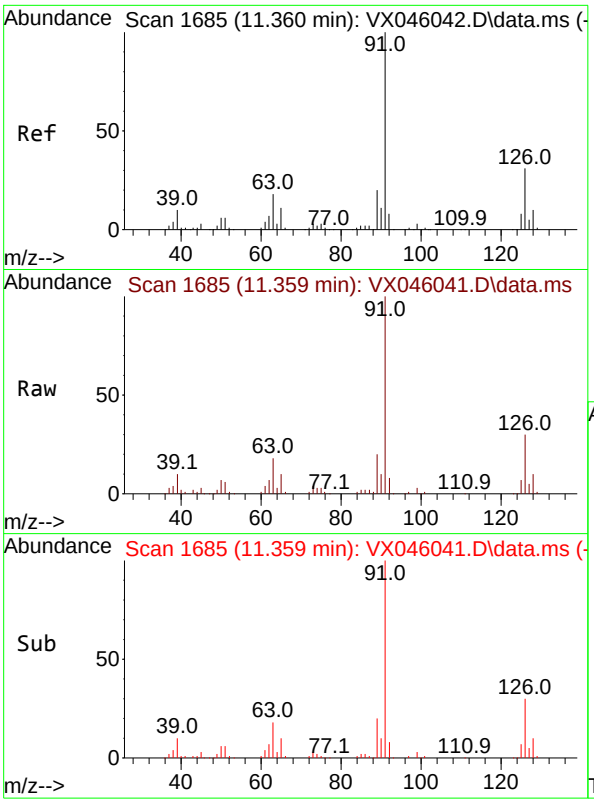



#78
n-propylbenzene
Concen: 14.376 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 91 Resp: 106337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.0 | 10.8 | 32.4 |






#79
2-Chlorotoluene
Concen: 13.748 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 91 Resp: 6853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.4 | 15.6 | 46.7 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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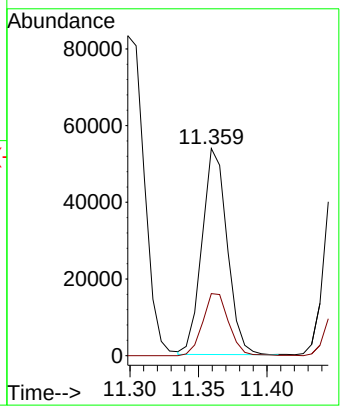
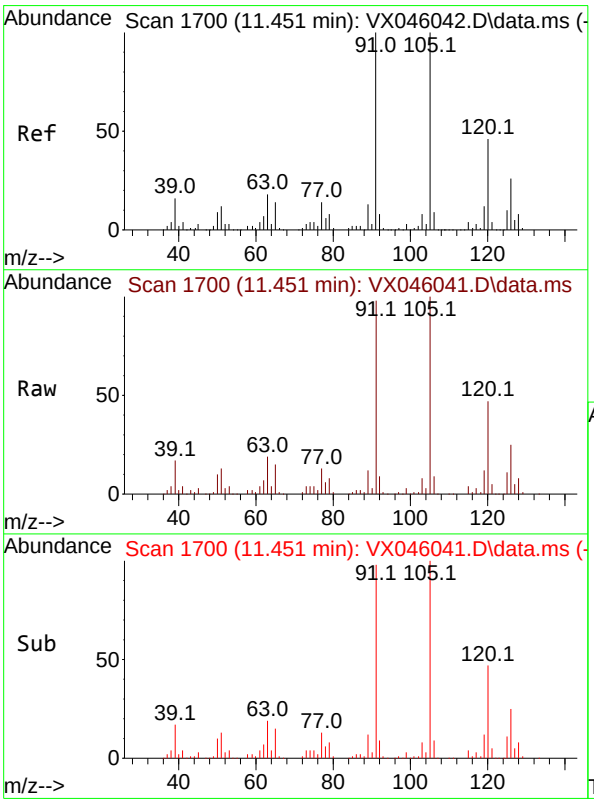
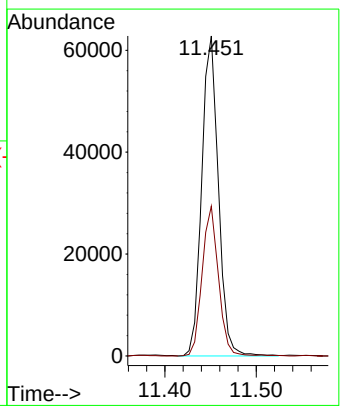


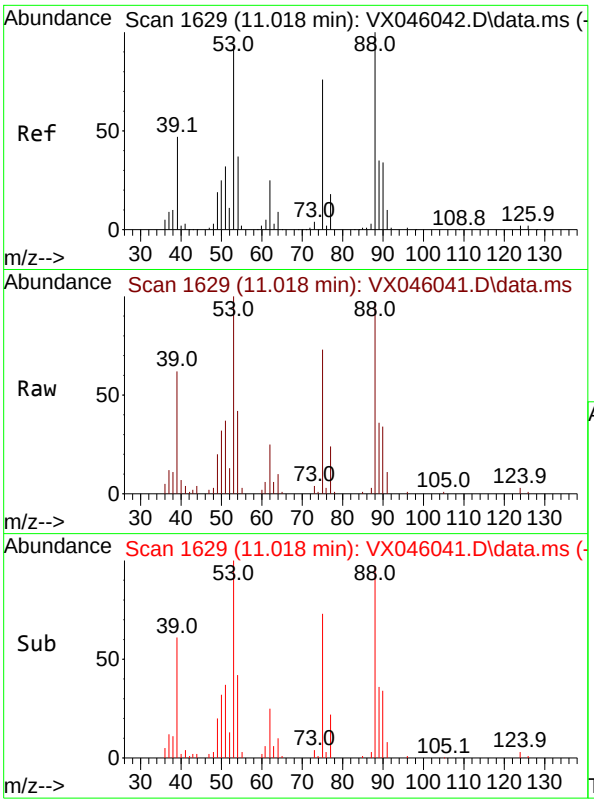




#80
1,3,5-Trimethylbenzene
Concen: 14.468 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:105 Resp: 79261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.9 | 23.1 | 69.2 |

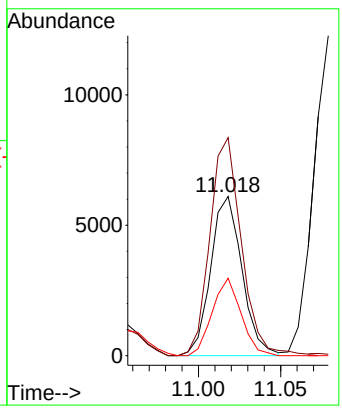





#81
trans-1,4-Dichloro-2-butene
Concen: 13.371 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 138.3 | 100.5 | 150.7 |
| 89 | 44.6 | 37.0 | 55.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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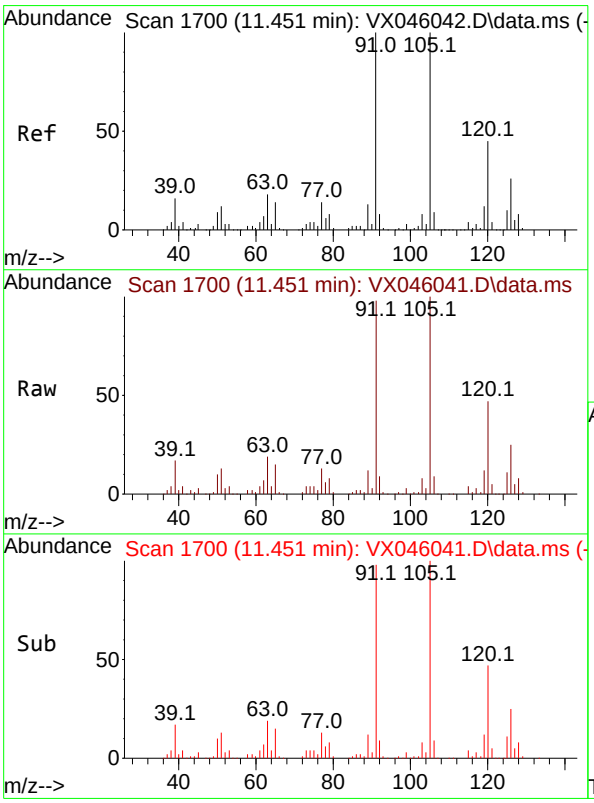
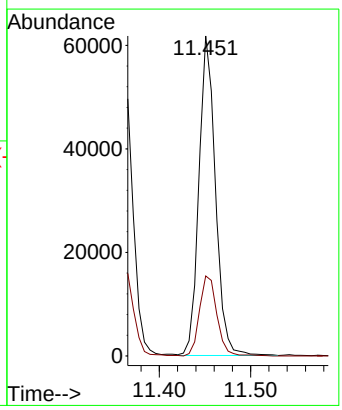
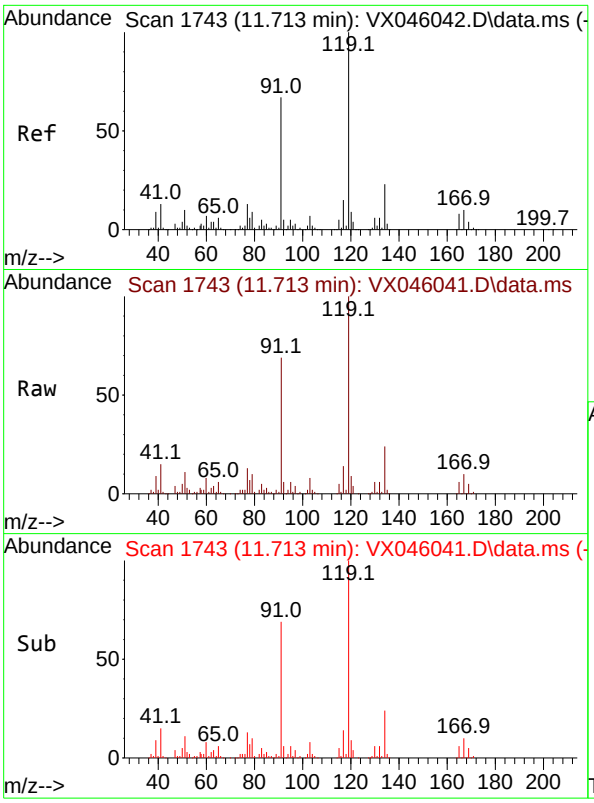



#82
4-Chlorotoluene
Concen: 14.116 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 91 Resp: 77338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 26.5 | 13.3 | 39.8 |

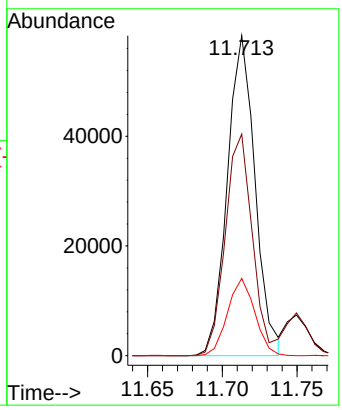





#83
tert-Butylbenzene
Concen: 14.011 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:119 Resp: 7538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 66.8 | 32.9 | 98.7 |
| 134 | 23.7 | 11.4 | 34.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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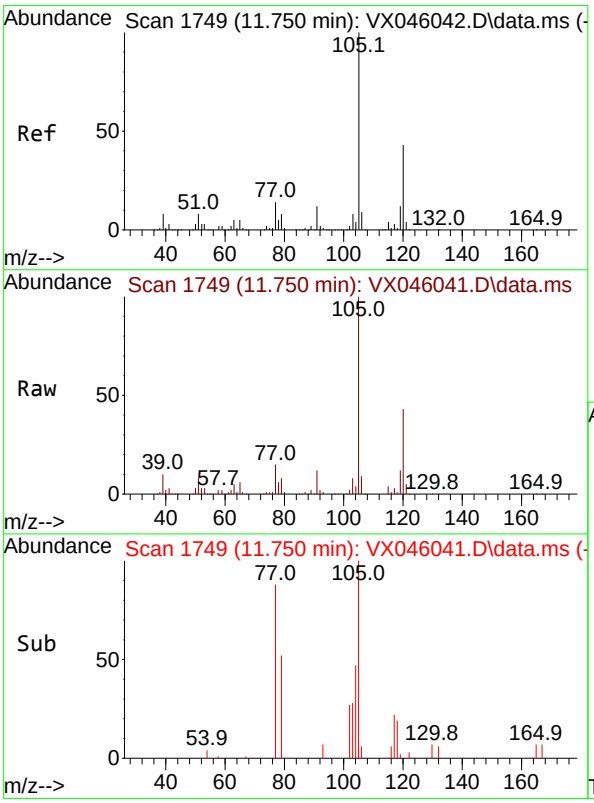
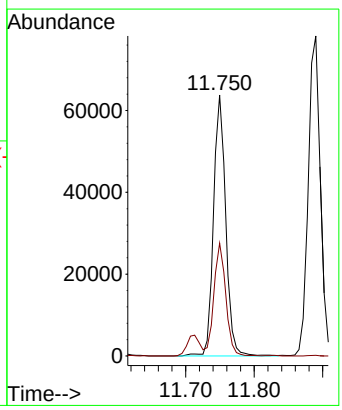
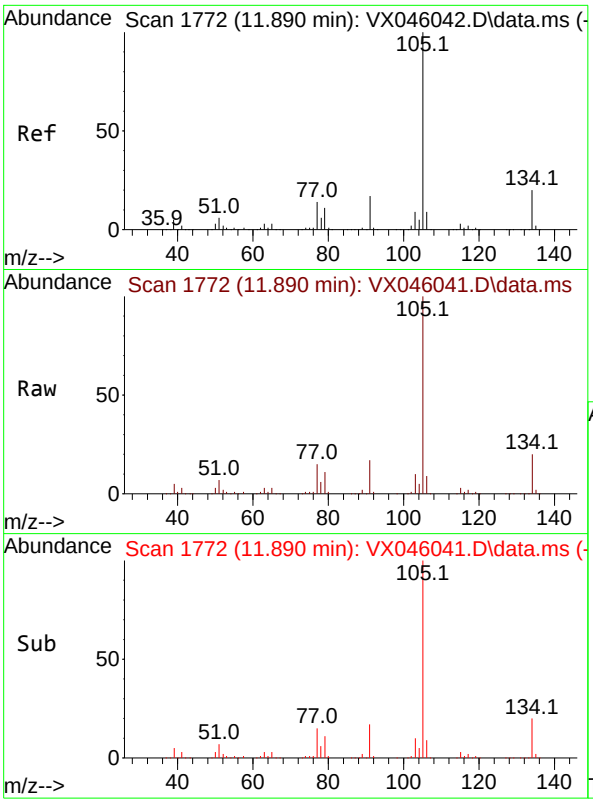



#84
1,2,4-Trimethylbenzene
Concen: 14.480 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:105 Resp: 79232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.0 | 21.2 | 63.6 |

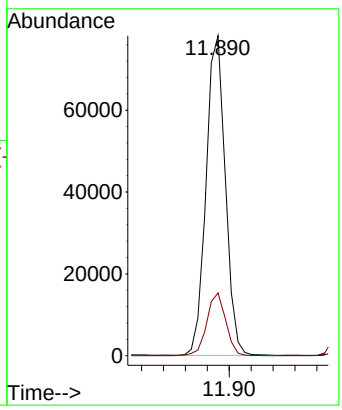





#85
sec-Butylbenzene
Concen: 14.263 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:105 Resp: 9527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.3 | 9.7 | 29.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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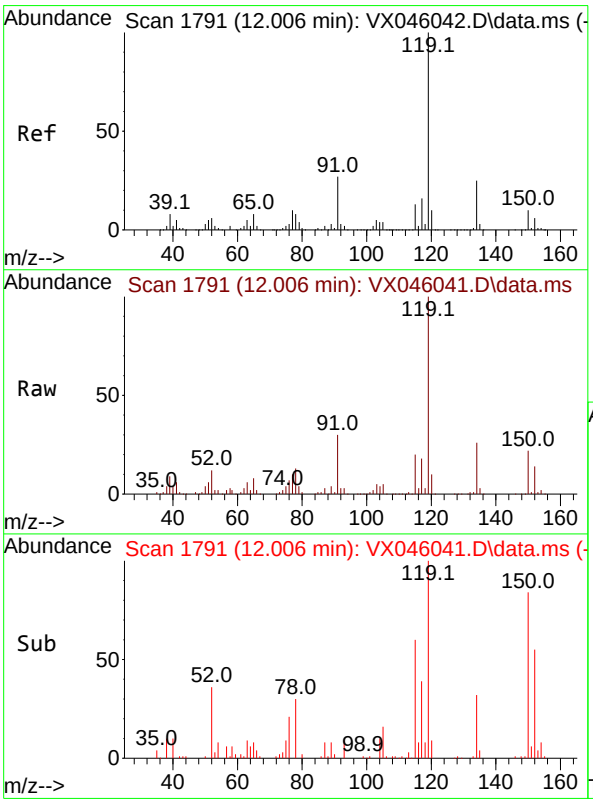
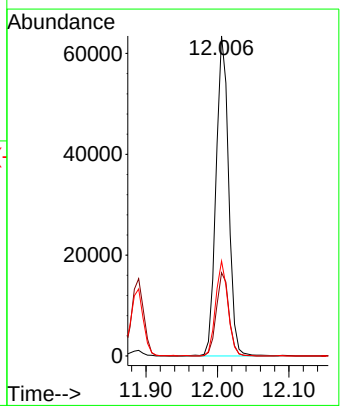
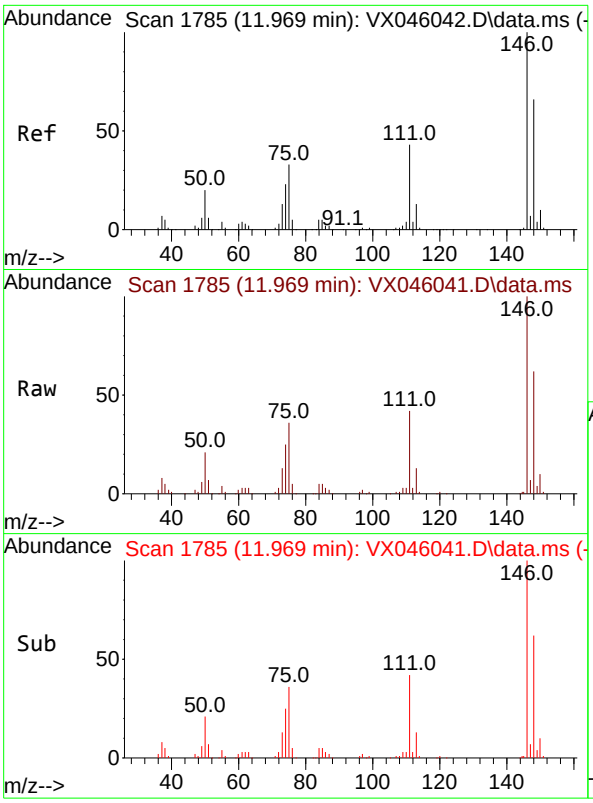



#86
p-Isopropyltoluene
Concen: 14.387 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:119 Resp: 77599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.9 | 12.5 | 37.5 |
| 91 | 28.8 | 13.8 | 41.4 |

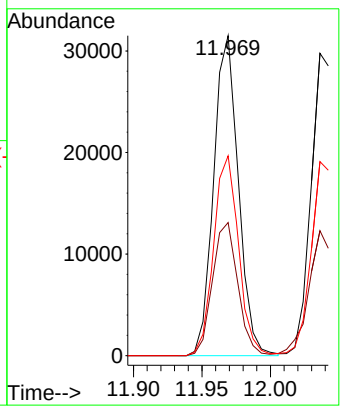





#87
1,3-Dichlorobenzene
Concen: 13.898 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:146 Resp: 3952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.7 | 22.1 | 66.3 |
| 148 | 62.9 | 32.1 | 96.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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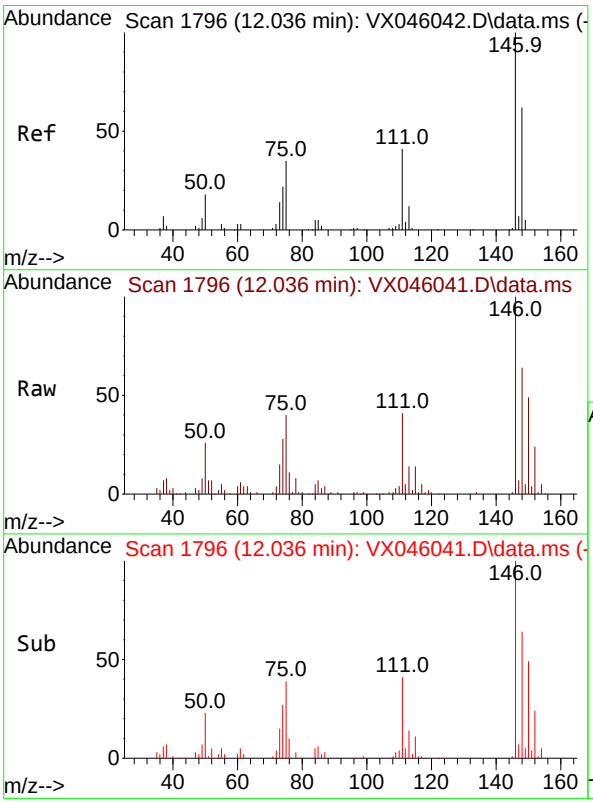
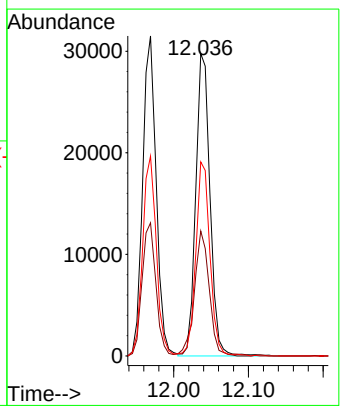
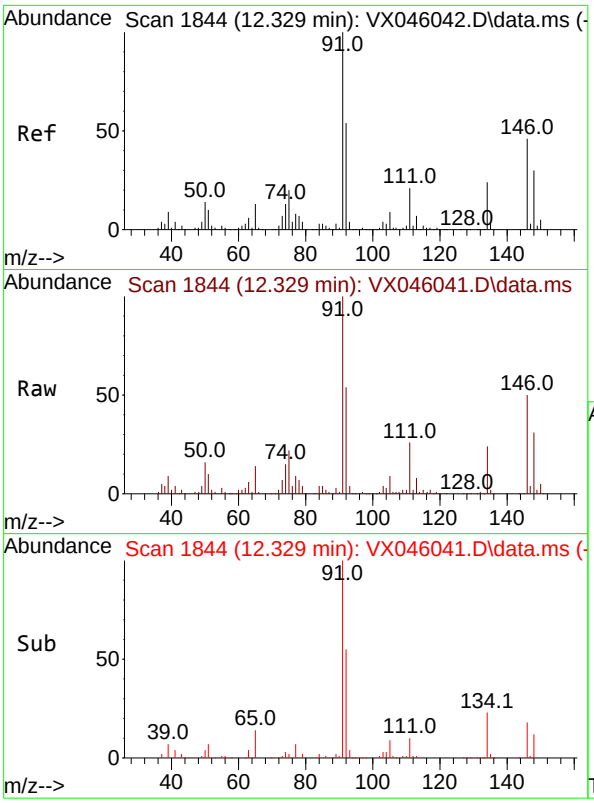



#88
1,4-Dichlorobenzene
Concen: 14.146 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:146 Resp: 39419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.8 | 21.3 | 63.9 |
| 148 | 64.2 | 31.9 | 95.5 |

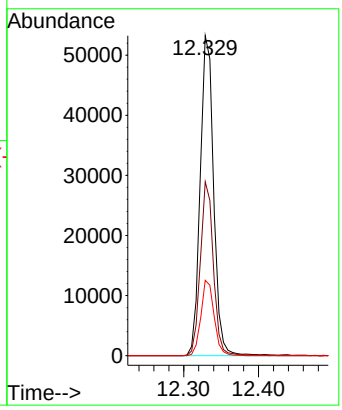





#89
n-Butylbenzene
Concen: 14.184 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 91 Resp: 6650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.9 | 26.9 | 80.7 |
| 134 | 23.1 | 11.8 | 35.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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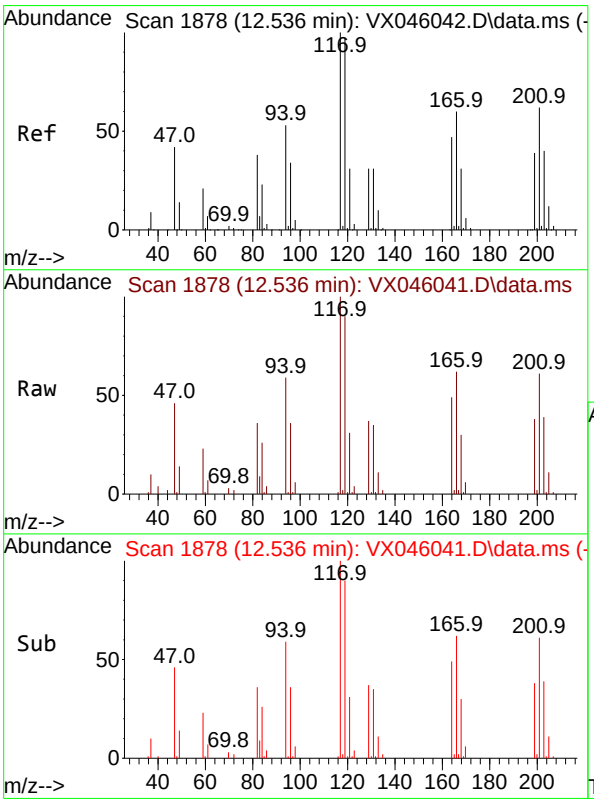
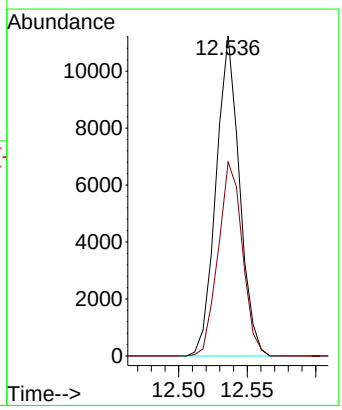
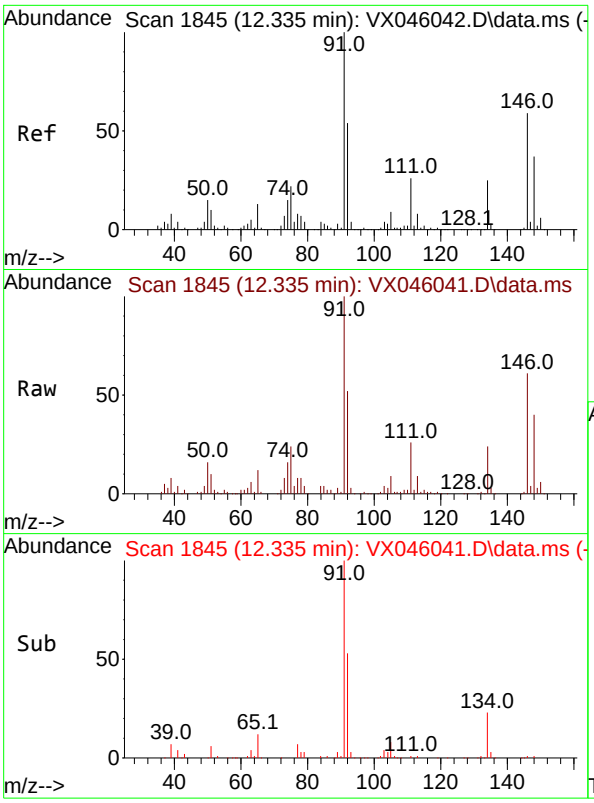



#90
Hexachloroethane
Concen: 13.287 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:117 Resp: 13332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 62.9 | 31.6 | 94.7 |

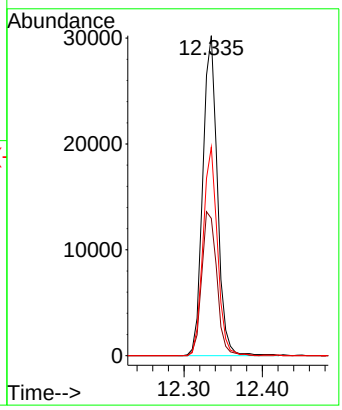





#91
1,2-Dichlorobenzene
Concen: 14.092 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:146 Resp: 3903

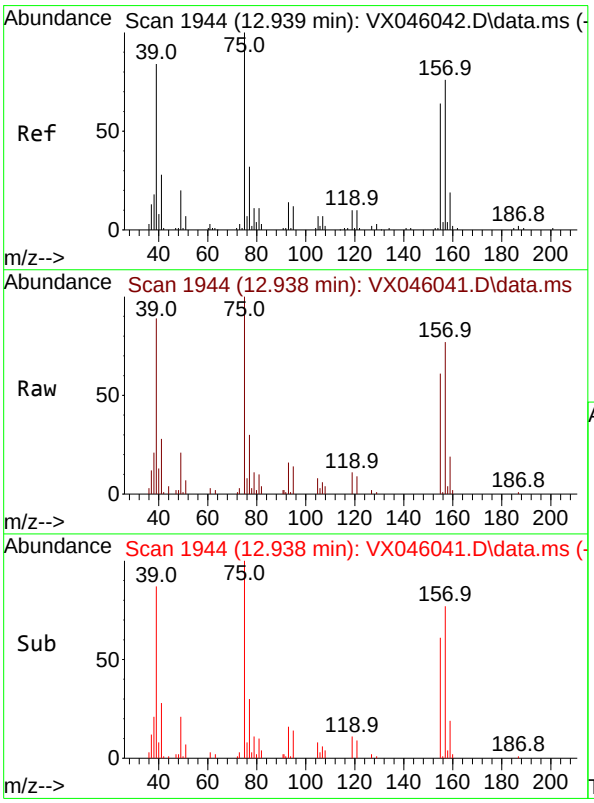
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.6 | 22.4 | 67.3 |
| 148 | 64.2 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

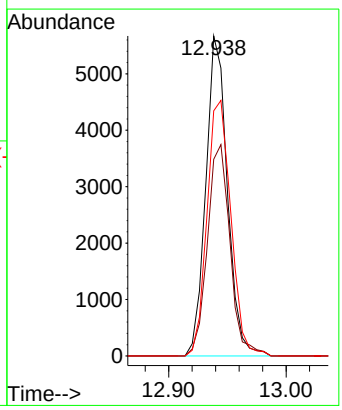
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

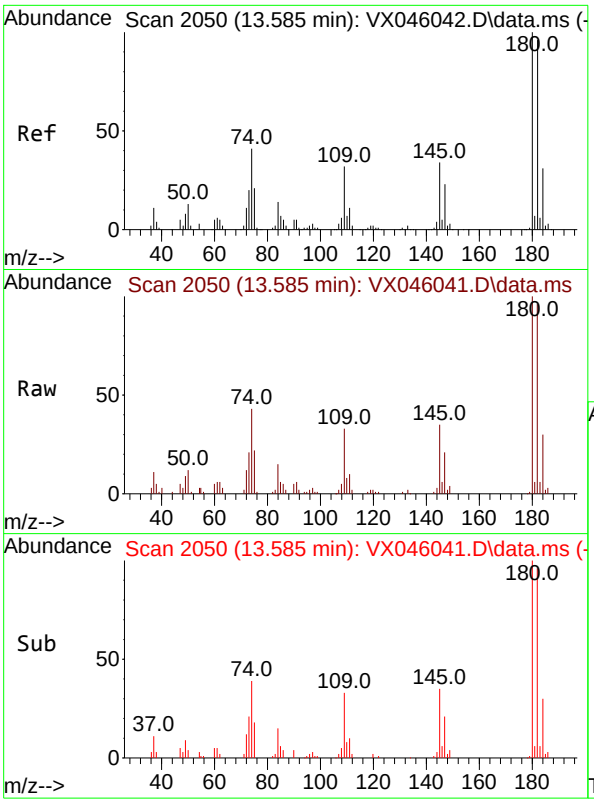



#92
1,2-Dibromo-3-Chloropropane
Concen: 13.535 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 7232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 69.4 | 34.9 | 104.8 |
| 157 | 88.4 | 43.8 | 131.4 |

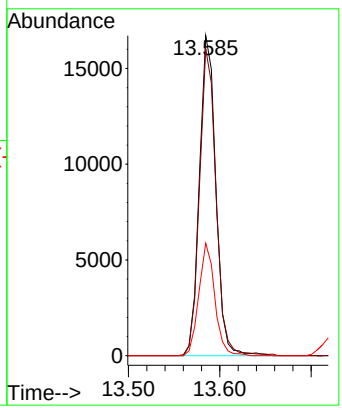





#93
1,2,4-Trichlorobenzene
Concen: 13.745 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:180 Resp: 2084

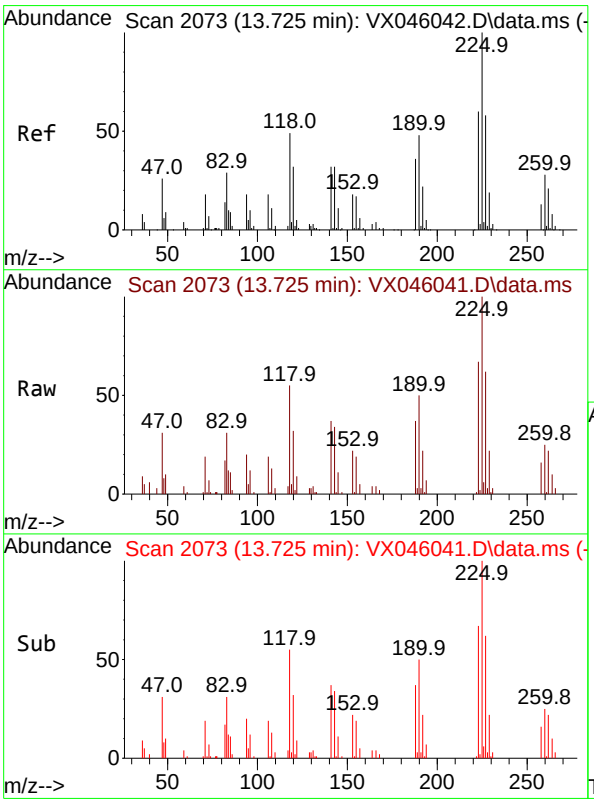
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.6 | 47.9 | 143.8 |
| 145 | 34.1 | 17.1 | 51.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

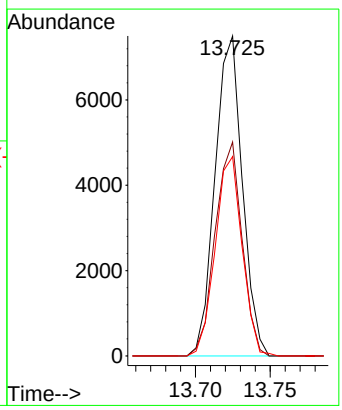
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

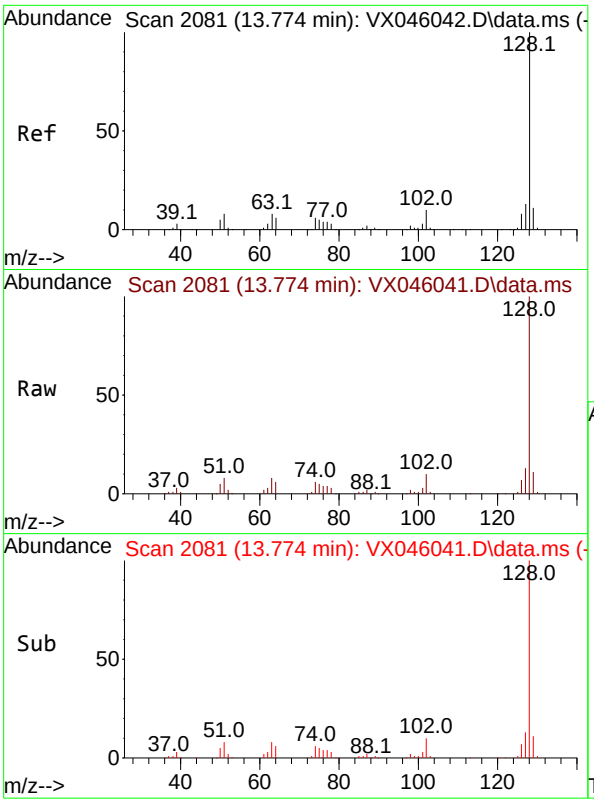



#94
Hexachlorobutadiene
Concen: 13.426 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:225 Resp: 9524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 65.6 | 30.8 | 92.4 |
| 227 | 61.4 | 30.9 | 92.7 |

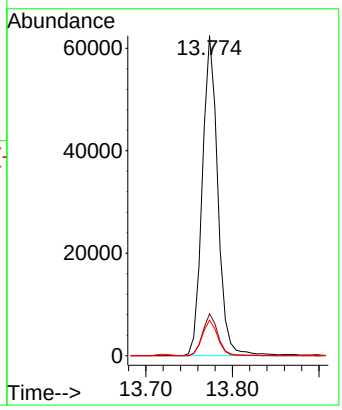





#95
Naphthalene
Concen: 14.040 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:128 Resp: 7754

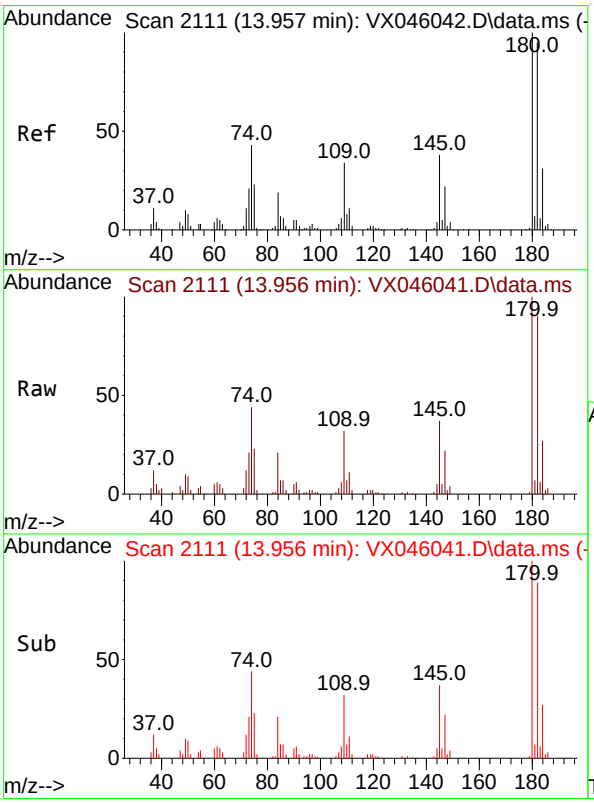
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.4 | 15.6 |
| 129 | 11.1 | 8.6 | 13.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

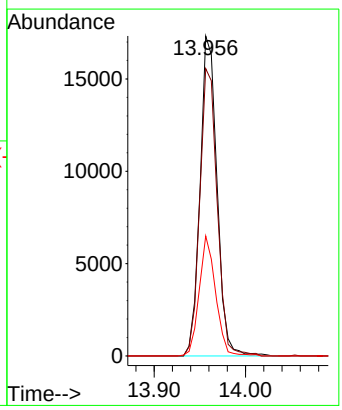
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025




#96
1,2,3-Trichlorobenzene
Concen: 14.023 ug/l
RT: 13.956 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:180 Resp: 22301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.1 | 47.8 | 143.3 |
| 145 | 36.5 | 18.1 | 54.3 |



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 97076 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 167947 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 146257 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 67976 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 88371 | 30.601 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 61.200%# | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 59550 | 31.633 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 63.260%# | | |
| 50) Toluene-d8 | 8.647 | 98 | 205479 | 32.395 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 64.780%# | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 79012 | 34.229 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 68.460%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 83826 | 39.120 | ug/l | 100 |
| 3) Chloromethane | 1.307 | 50 | 75238 | 35.658 | ug/l | 100 |
| 4) Vinyl Chloride | 1.374 | 62 | 68901 | 37.273 | ug/l | 100 |
| 5) Bromomethane | 1.593 | 94 | 31648 | 33.765 | ug/l | 100 |
| 6) Chloroethane | 1.666 | 64 | 36722 | 38.558 | ug/l | 100 |
| 7) Trichlorofluoromethane | 1.874 | 101 | 103693 | 36.824 | ug/l | 100 |
| 8) Diethyl Ether | 2.136 | 74 | 32724 | 35.350 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 62251 | 36.997 | ug/l | 100 |
| 10) Methyl Iodide | 2.447 | 142 | 78277 | 39.622 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.977 | 59 | 62557 | 181.745 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.313 | 96 | 58334 | 35.610 | ug/l | 100 |
| 13) Acrolein | 2.233 | 56 | 73927 | 184.907 | ug/l | 100 |
| 14) Allyl chloride | 2.654 | 41 | 114445 | 36.971 | ug/l | 100 |
| 15) Acrylonitrile | 3.062 | 53 | 188304 | 182.874 | ug/l | 100 |
| 16) Acetone | 2.386 | 43 | 175777 | 177.910 | ug/l | 100 |
| 17) Carbon Disulfide | 2.502 | 76 | 141281 | 37.223 | ug/l | 100 |
| 18) Methyl Acetate | 2.703 | 43 | 82347 | 34.915 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 209665 | 36.695 | ug/l | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 66412 | 33.182 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 59234 | 35.421 | ug/l | 100 |
| 22) Diisopropyl ether | 3.757 | 45 | 221172 | 38.241 | ug/l | 100 |
| 23) Vinyl Acetate | 3.721 | 43 | 994236 | 194.528 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 122601 | 36.067 | ug/l | 100 |
| 25) 2-Butanone | 4.556 | 43 | 269224 | 188.783 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.465 | 77 | 92857 | 36.059 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 71518 | 35.466 | ug/l | 100 |
| 28) Bromochloromethane | 4.898 | 49 | 56091 | 31.031 | ug/l | 100 |
| 29) Tetrahydrofuran | 5.001 | 42 | 170124 | 183.679 | ug/l | 100 |
| 30) Chloroform | 5.087 | 83 | 125850 | 35.626 | ug/l | 100 |
| 31) Cyclohexane | 5.464 | 56 | 109459 | 38.205 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 109781 | 36.034 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 83215 | 38.073 | ug/l | 100 |
| 37) Ethyl Acetate | 4.715 | 43 | 102537 | 37.394 | ug/l | 100 |
| 38) Carbon Tetrachloride | 5.672 | 117 | 93712 | 37.320 | ug/l | 100 |
| 39) Methylcyclohexane | 7.373 | 83 | 107651 | 39.307 | ug/l | 100 |
| 40) Benzene | 6.031 | 78 | 247476 | 36.530 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 58082 | 38.123 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 105332 | 37.605 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.336 | 43 | 161787 | 38.598 | ug/l | | 100 |
| 44) Trichloroethene | 7.123 | 130 | 59623 | 37.230 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 7.428 | 63 | 62387 | 37.064 | ug/l | | 100 |
| 46) Dibromomethane | 7.574 | 93 | 48201 | 36.326 | ug/l | | 100 |
| 47) Bromodichloromethane | 7.818 | 83 | 96916 | 37.685 | ug/l | | 100 |
| 48) Methyl methacrylate | 7.690 | 41 | 84277 | 39.157 | ug/l | | 100 |
| 49) 1,4-Dioxane | 7.659 | 88 | 30529 | 713.477 | ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 532388 | 193.653 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 150757 | 37.530 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 88655 | 41.056 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 97031 | 38.521 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 59499 | 36.648 | ug/l | | 100 |
| 56) Ethyl methacrylate | 9.116 | 69 | 99947 | 39.726 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 104606 | 36.347 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 257678 | 227.902 | ug/l | | 100 |
| 59) 2-Hexanone | 9.427 | 43 | 396784 | 190.168 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.519 | 129 | 67198 | 38.027 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 62633 | 37.567 | ug/l | | 100 |
| 64) Tetrachloroethene | 9.269 | 164 | 54853 | 36.726 | ug/l | | 100 |
| 65) Chlorobenzene | 10.079 | 112 | 160600 | 35.686 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 57066 | 38.017 | ug/l | | 100 |
| 67) Ethyl Benzene | 10.189 | 91 | 295712 | 38.543 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 216578 | 78.142 | ug/l | | 100 |
| 69) o-Xylene | 10.640 | 106 | 106335 | 38.064 | ug/l | | 100 |
| 70) Styrene | 10.653 | 104 | 178313 | 39.888 | ug/l | | 100 |
| 71) Bromoform | 10.799 | 173 | 44486 | 39.457 | ug/l | # | 100 |
| 73) Isopropylbenzene | 10.957 | 105 | 280719 | 37.865 | ug/l | | 100 |
| 74) N-amyl acetate | 10.842 | 43 | 140509 | 38.012 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 90975 | 34.495 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 80678m | 28.468 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 63053 | 36.763 | ug/l | | 100 |
| 78) n-propylbenzene | 11.299 | 91 | 329981 | 39.707 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 203509 | 36.336 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 237066 | 38.516 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 26179 | 38.445 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 233172 | 37.880 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 233468 | 38.622 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 239433 | 38.946 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 291074 | 38.786 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 241658 | 39.879 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 115651 | 36.199 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 115097 | 36.763 | ug/l | | 100 |
| 89) n-Butylbenzene | 12.329 | 91 | 213899 | 40.603 | ug/l | | 100 |
| 90) Hexachloroethane | 12.536 | 117 | 42314 | 37.534 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 115286 | 37.047 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 21909 | 36.496 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 66655 | 39.117 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 29007 | 36.395 | ug/l | | 100 |
| 95) Naphthalene | 13.774 | 128 | 245568 | 39.575 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 69262 | 38.765 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

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

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

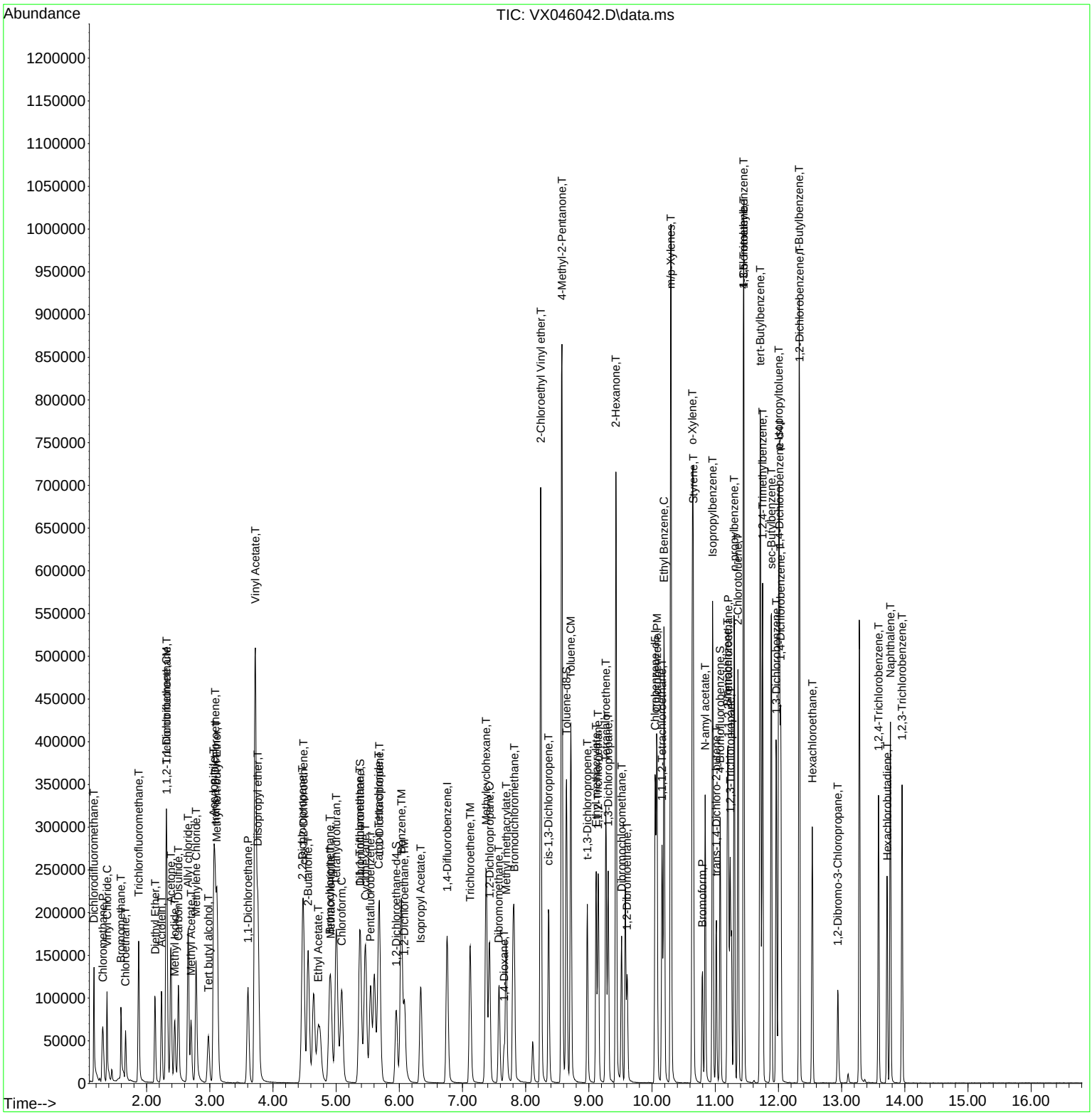
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

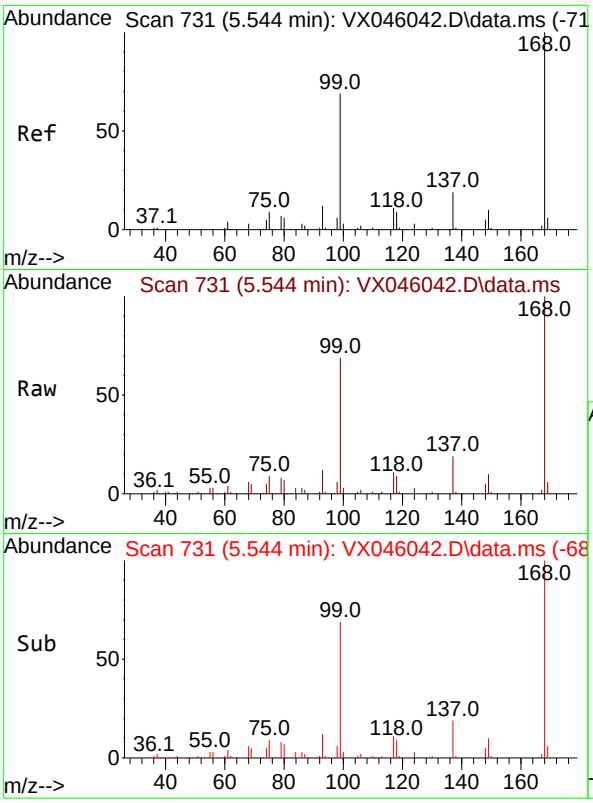
Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

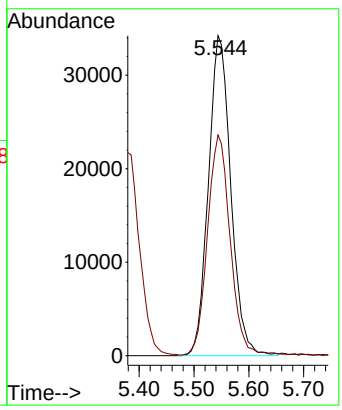





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:168 Resp: 9707

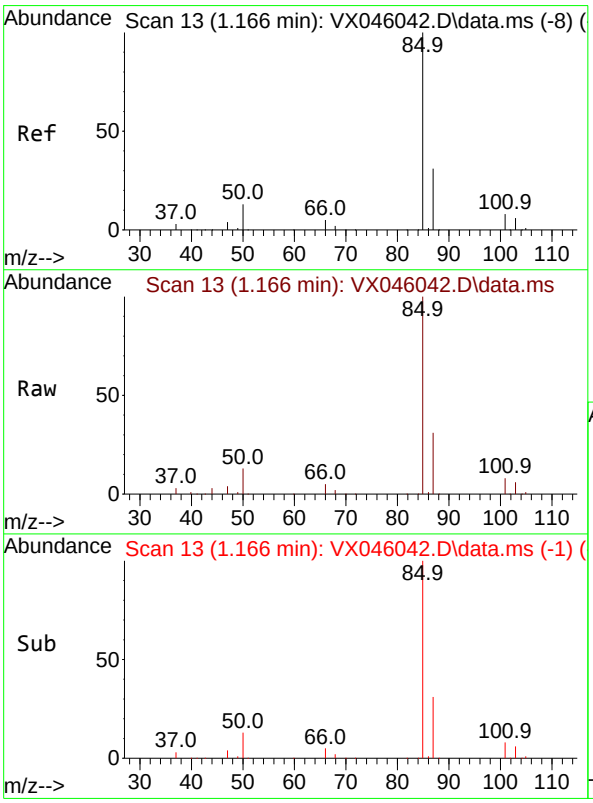
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 68.6 | 54.9 | 82.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

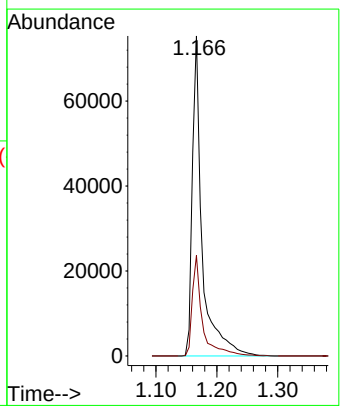
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

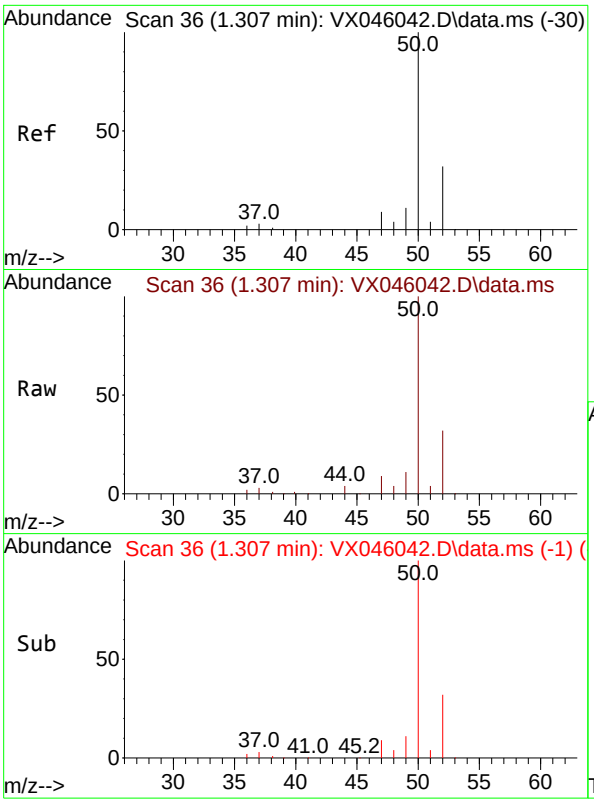



#2
Dichlorodifluoromethane
Concen: 39.120 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 85 Resp: 83826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.4 | 15.7 | 47.1 |






#3
Chloromethane
Concen: 35.658 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 50 Resp: 7523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.8 | 25.4 | 38.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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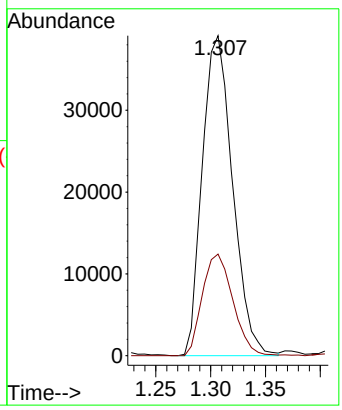
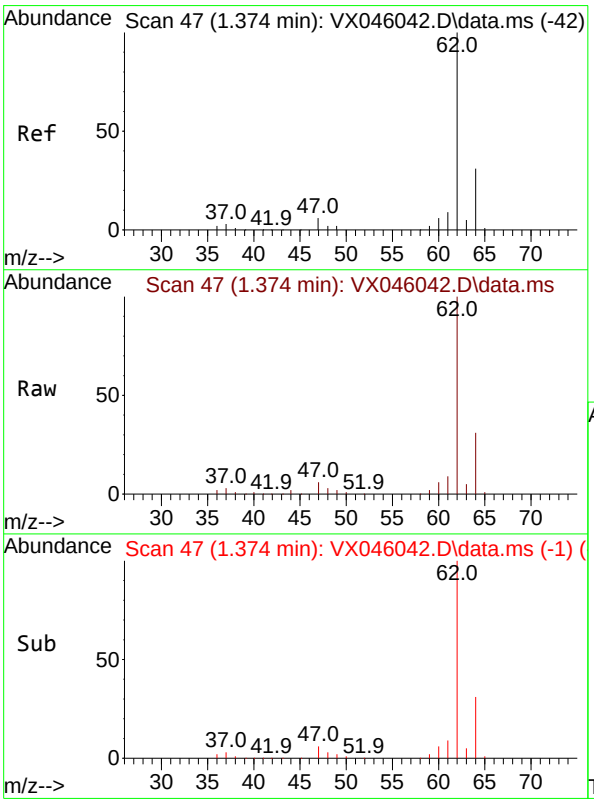
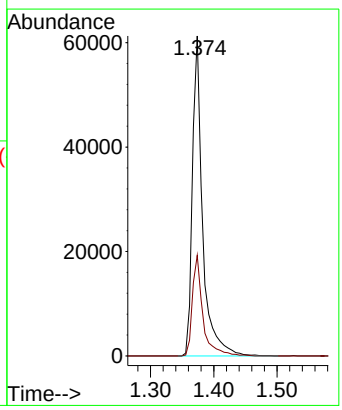


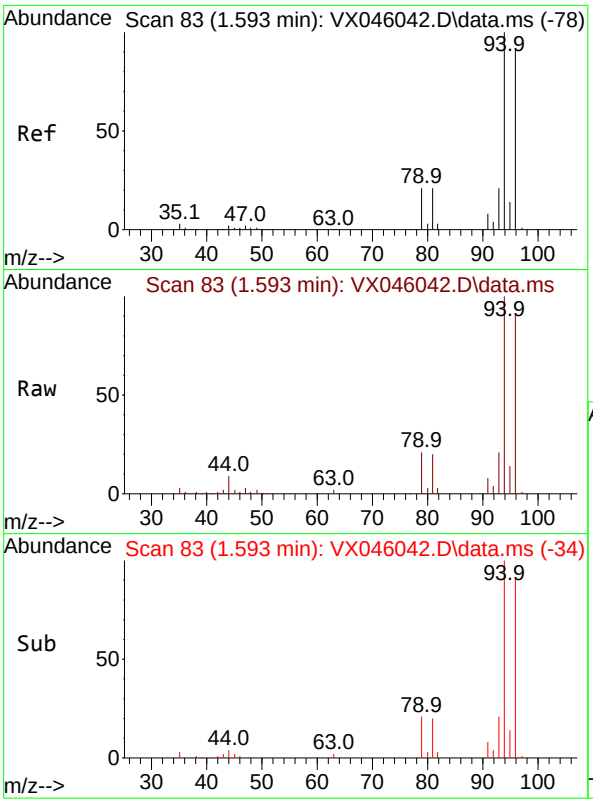




#4
Vinyl Chloride
Concen: 37.273 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 62 Resp: 68901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.5 | 25.2 | 37.8 |

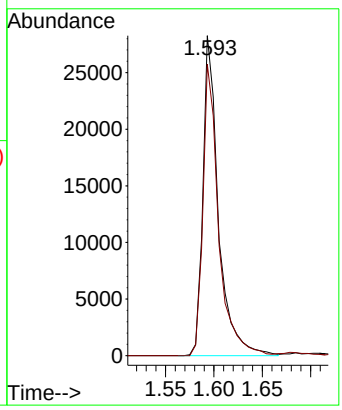





#5
Bromomethane
Concen: 33.765 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 94 Resp: 3164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.0 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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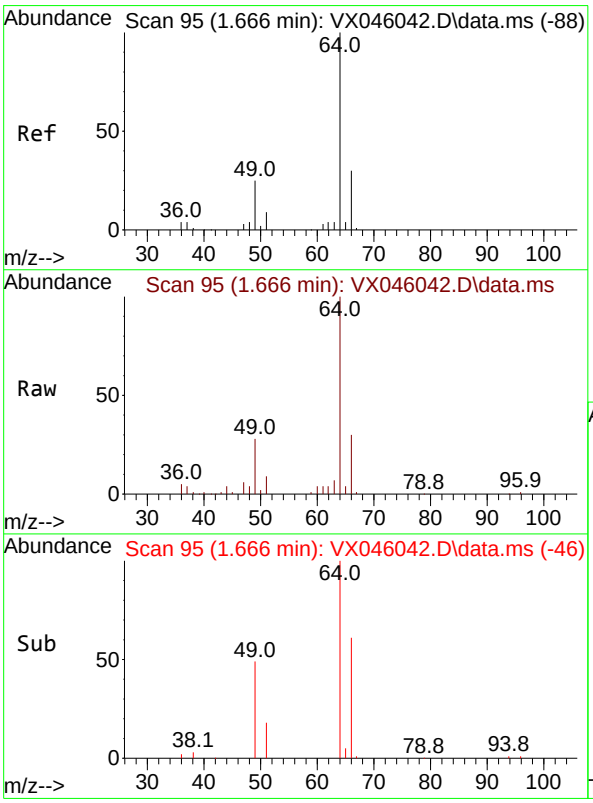
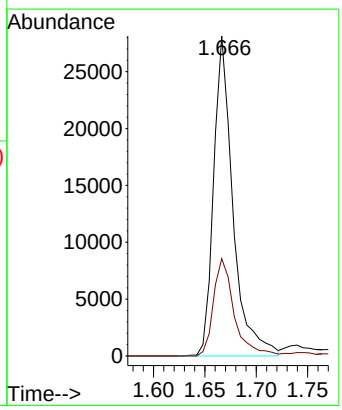
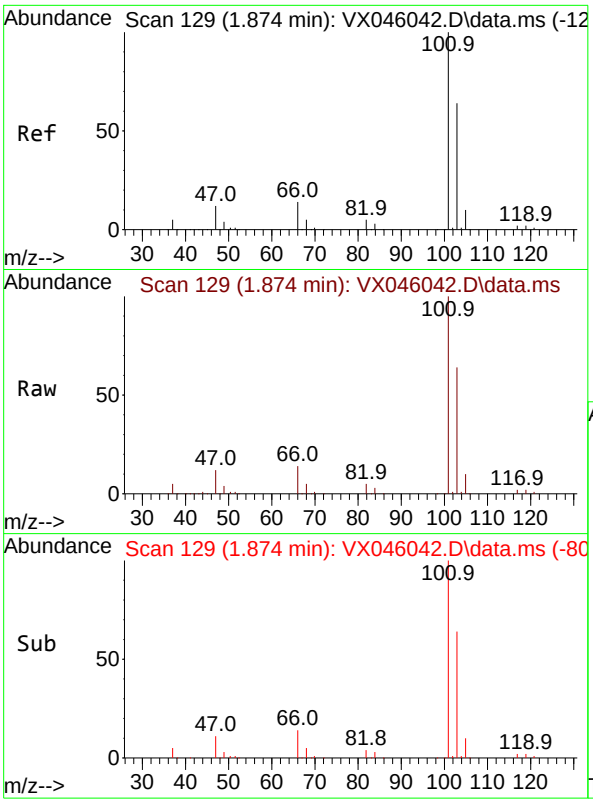



#6
Chloroethane
Concen: 38.558 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 64 Resp: 36722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.4 | 24.3 | 36.5 |

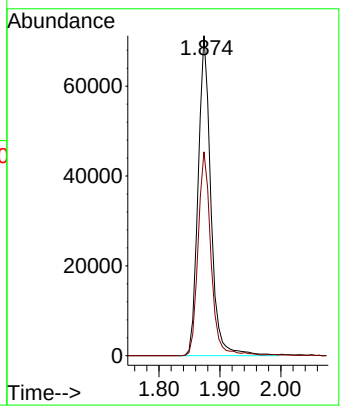





#7
Trichlorofluoromethane
Concen: 36.824 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:101 Resp: 10369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.7 | 51.0 | 76.4 |




**Instrument :**
MSVOA_X
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VSTDICCC050

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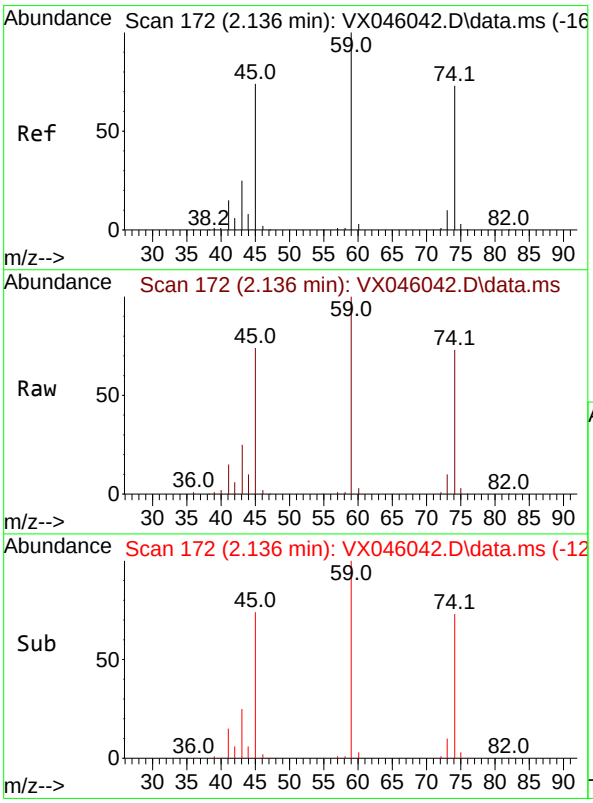
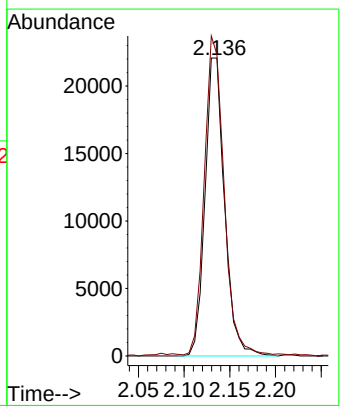
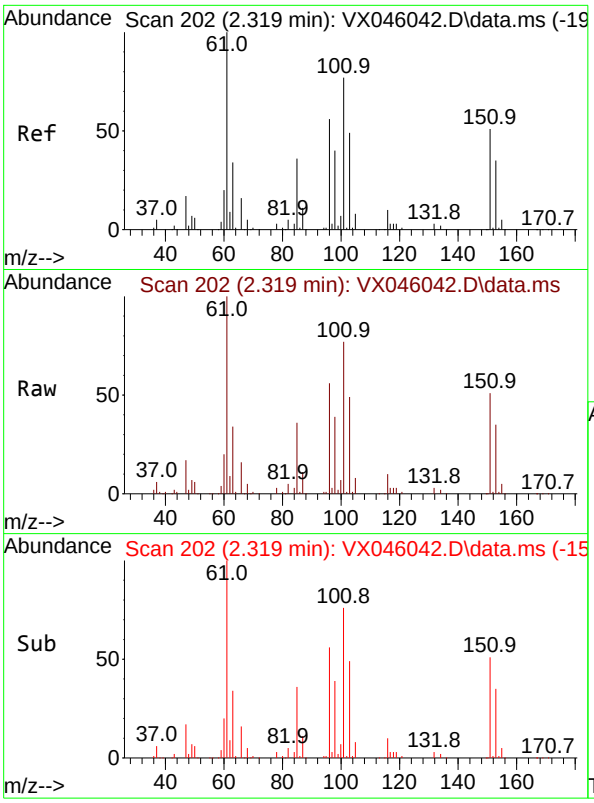



#8
Diethyl Ether
Concen: 35.350 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 74 Resp: 32724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 109.9 | 54.9 | 164.8 |

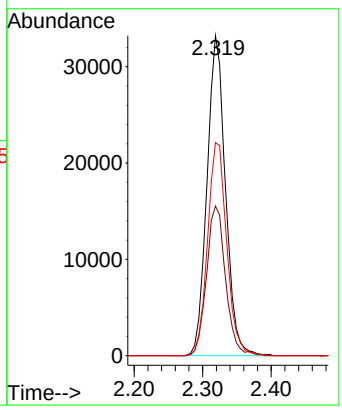





#9
1,1,2-Trichlorotrifluoroethane
Concen: 36.997 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:101 Resp: 6225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 48.3 | 38.6 | 58.0 |
| 151 | 69.0 | 55.2 | 82.8 |




**Instrument :**
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**ClientSampleId :**
VSTDICCC050

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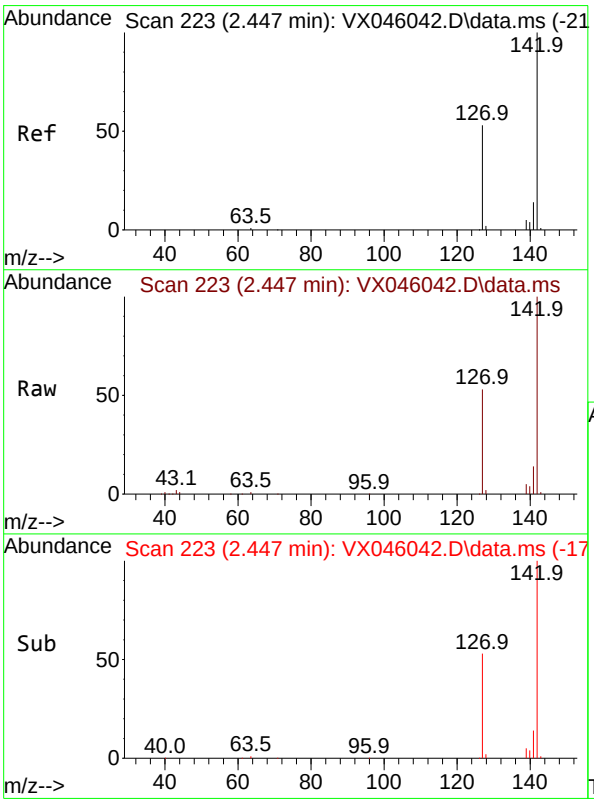
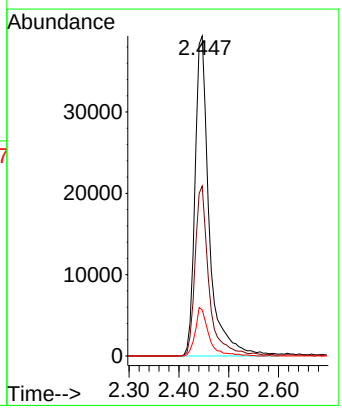
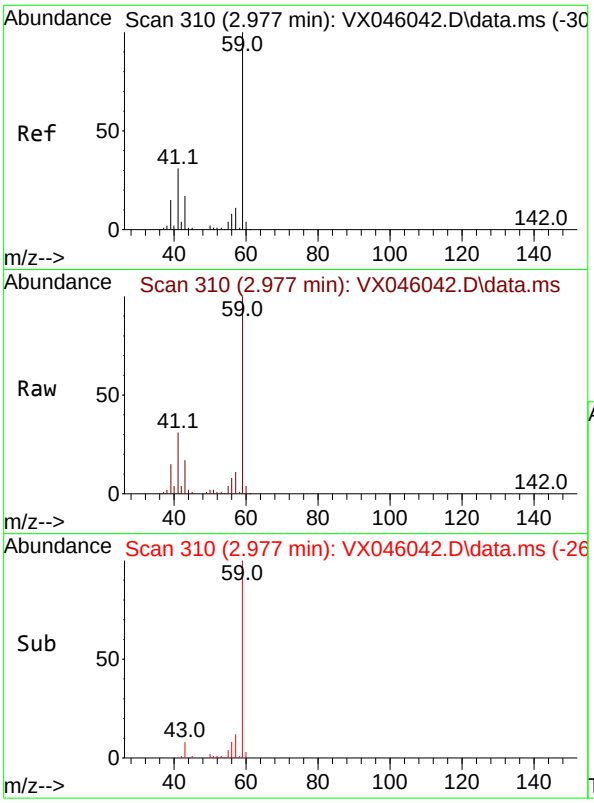



#10
Methyl Iodide
Concen: 39.622 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:142 Resp: 78277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 52.1 | 41.7 | 62.5 |
| 141 | 14.4 | 11.5 | 17.3 |

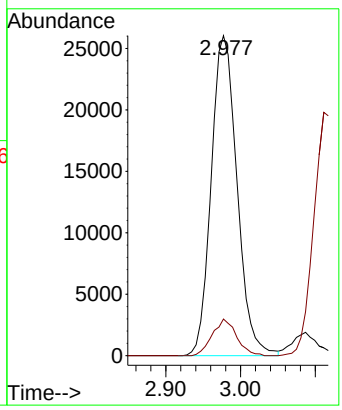





#11
Tert butyl alcohol
Concen: 181.745 ug/l
RT: 2.977 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 59 Resp: 6255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.7 | 8.6 | 12.8 |




**Instrument :**
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VSTDICCC050

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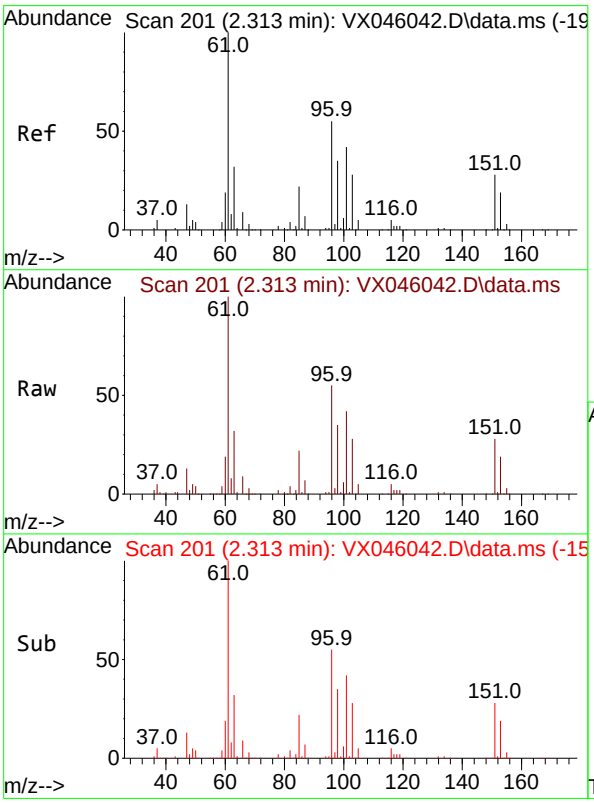
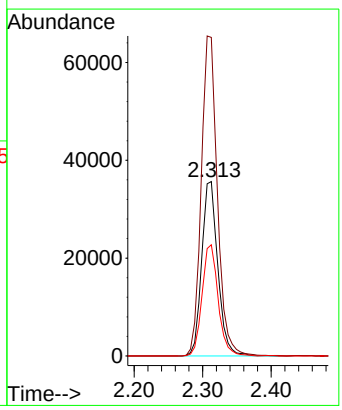
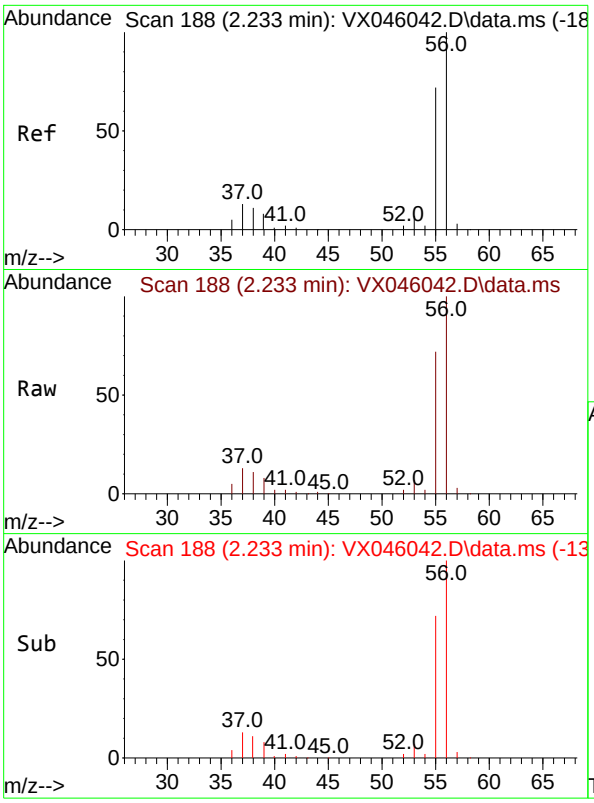



#12
1,1-Dichloroethene
Concen: 35.610 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 96 Resp: 58334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 182.7 | 146.2 | 219.2 |
| 98 | 63.8 | 51.0 | 76.6 |

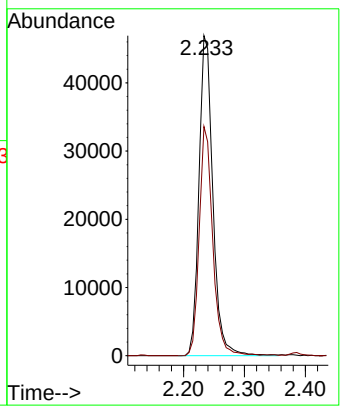





#13
Acrolein
Concen: 184.907 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 56 Resp: 7392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.3 | 56.2 | 84.4 |




**Instrument :**
MSVOA_X
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VSTDICCC050

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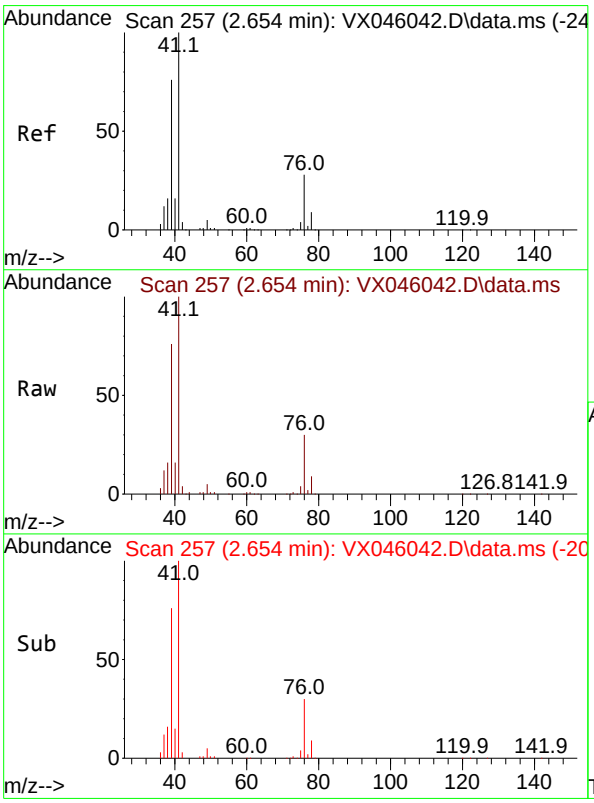
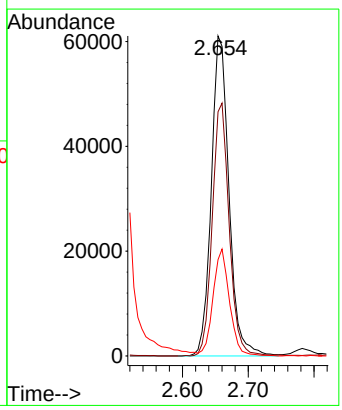
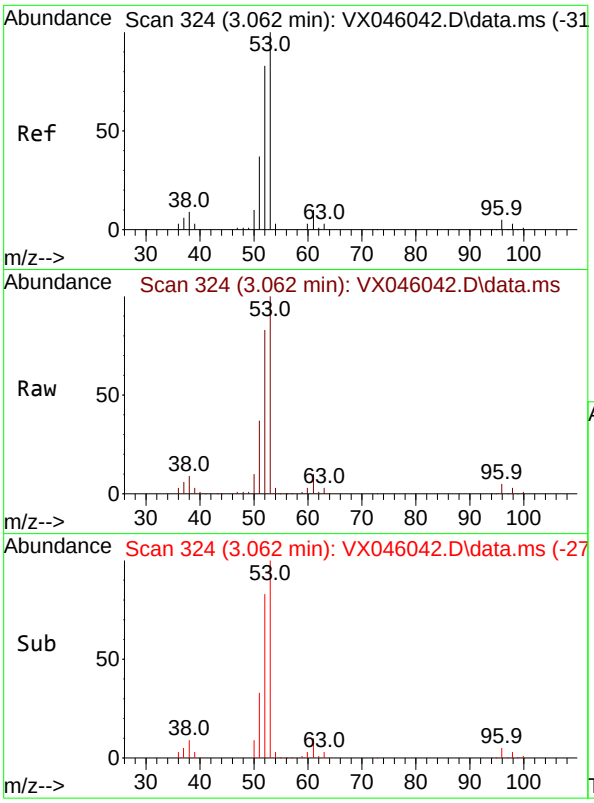



#14
Allyl chloride
Concen: 36.971 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 41 Resp: 114445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 75.7 | 60.6 | 90.8 |
| 76 | 31.1 | 24.9 | 37.3 |

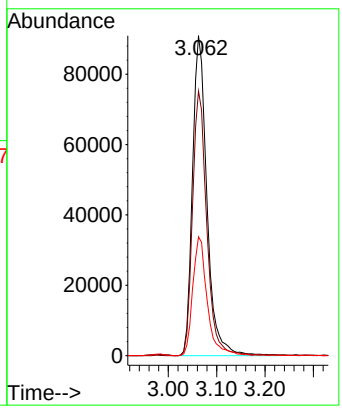





#15
Acrylonitrile
Concen: 182.874 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 53 Resp: 18830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.6 | 65.3 | 97.9 |
| 51 | 37.3 | 29.8 | 44.8 |

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VSTDICCC050

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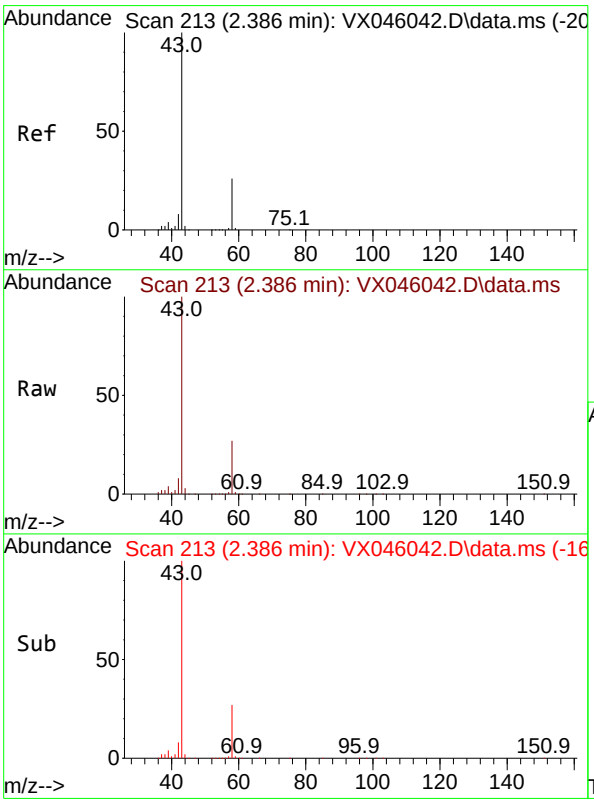
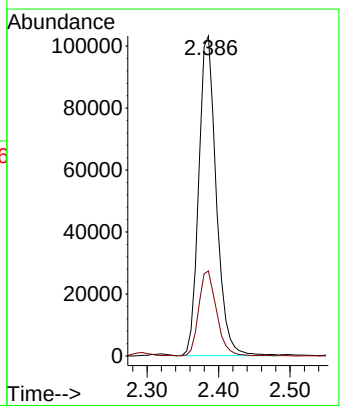
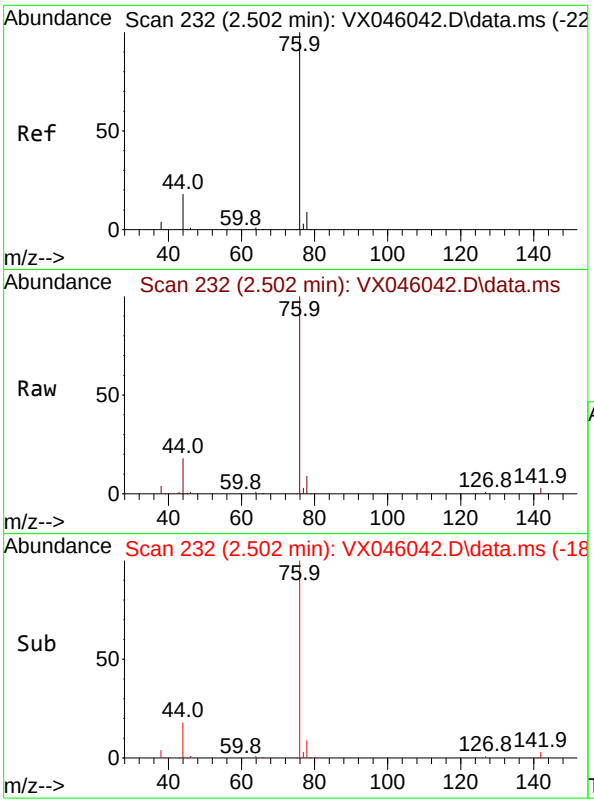



#16
Acetone
Concen: 177.910 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 175777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.5 | 21.2 | 31.8 |






#17
Carbon Disulfide
Concen: 37.223 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 76 Resp: 14128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.7 | 7.0 | 10.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

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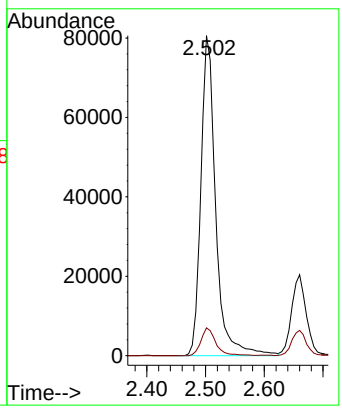
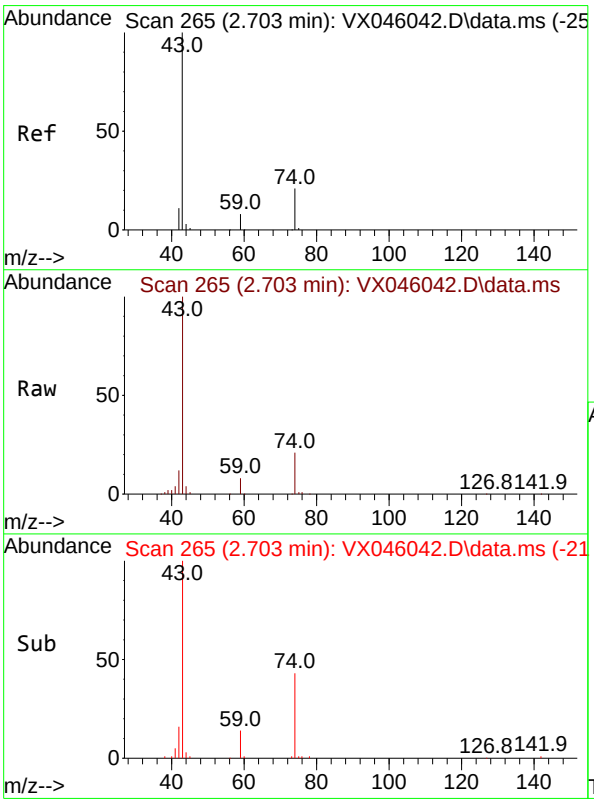
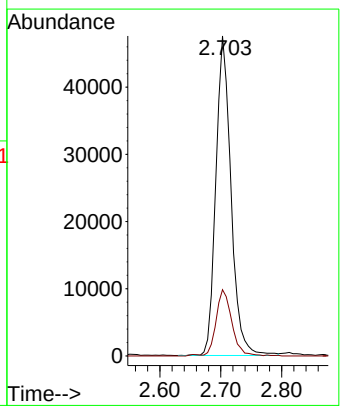


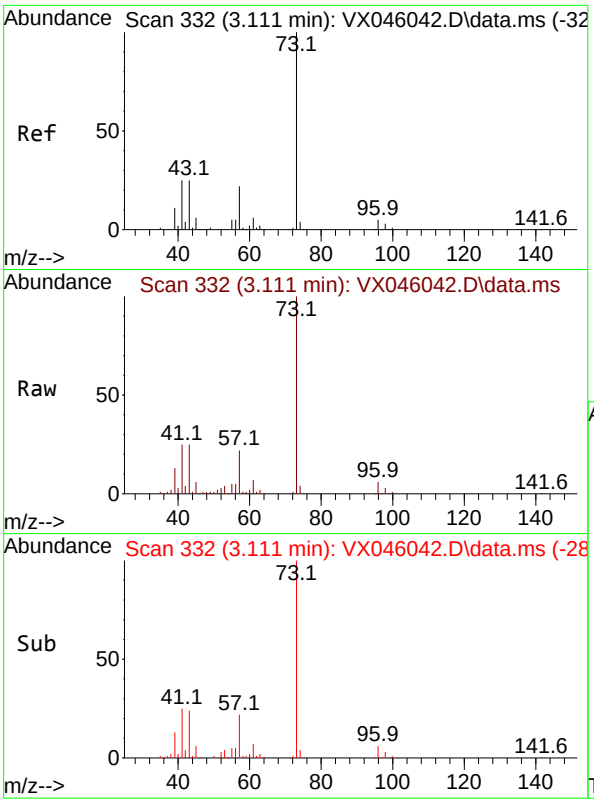




#18
Methyl Acetate
Concen: 34.915 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 82347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 20.9 | 16.7 | 25.1 |

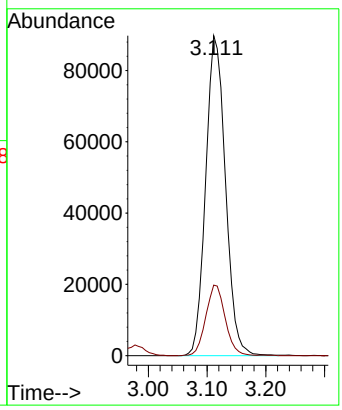





#19
Methyl tert-butyl Ether
Concen: 36.695 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 73 Resp: 20966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.1 | 17.7 | 26.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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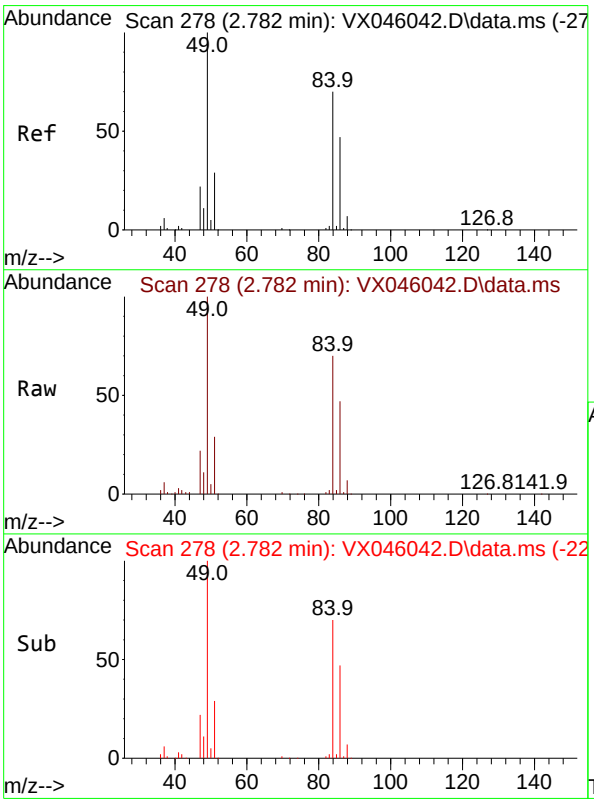
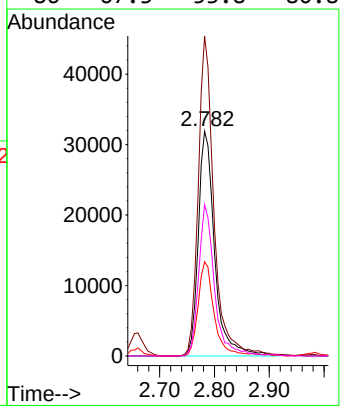
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

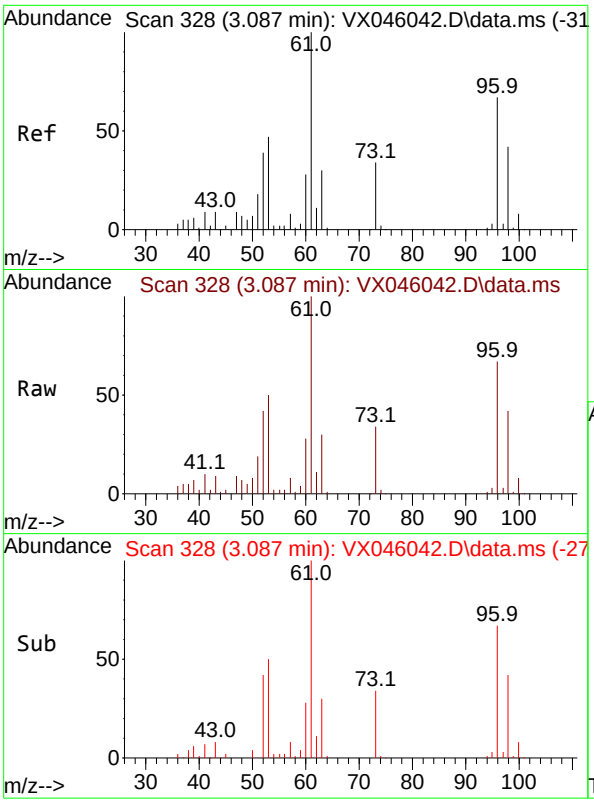



#20
Methylene Chloride
Concen: 33.182 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 84 Resp: 66412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 142.4 | 113.9 | 170.9 |
| 51 | 41.9 | 33.5 | 50.3 |
| 86 | 67.3 | 53.8 | 80.8 |

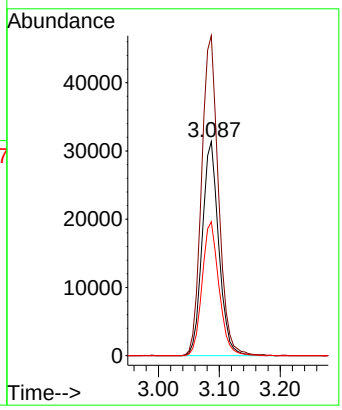





#21
trans-1,2-Dichloroethene
Concen: 35.421 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 96 Resp: 5923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 149.4 | 119.5 | 179.3 |
| 98 | 62.5 | 50.0 | 75.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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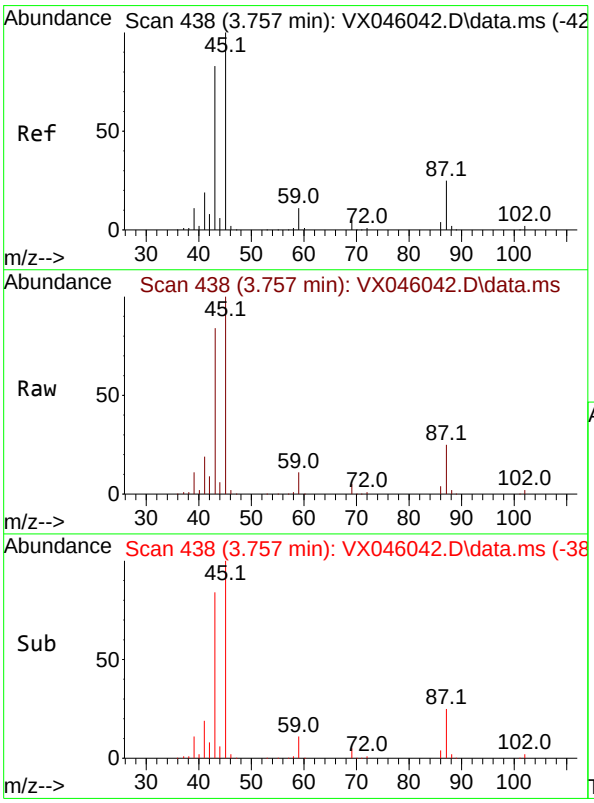
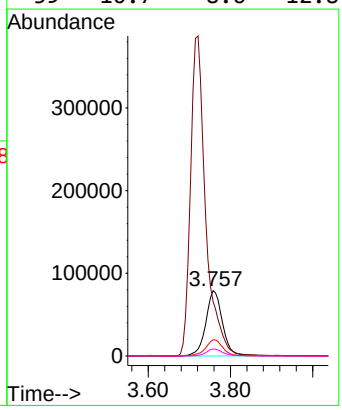
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

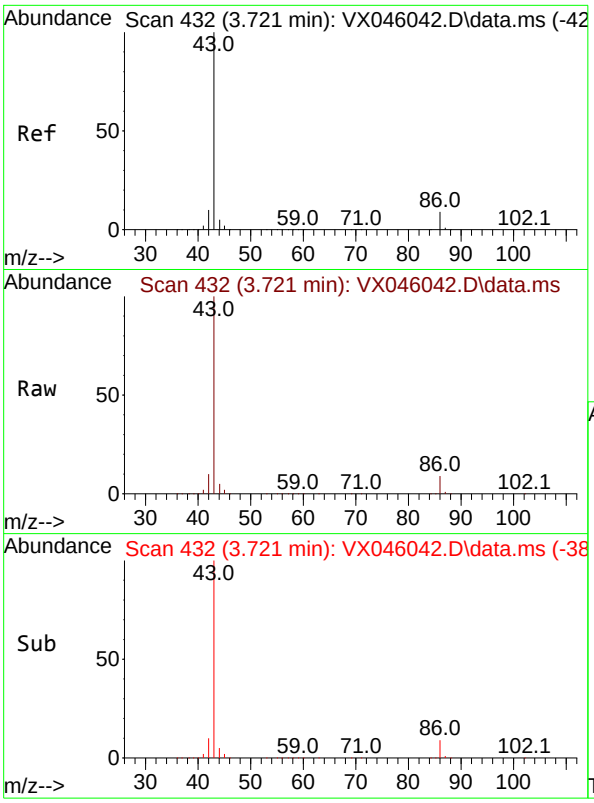



#22
Diisopropyl ether
Concen: 38.241 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 45 Resp: 221172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 83.3 | 66.6 | 100.0 |
| 87 | 24.7 | 19.8 | 29.6 |
| 59 | 10.7 | 8.6 | 12.8 |

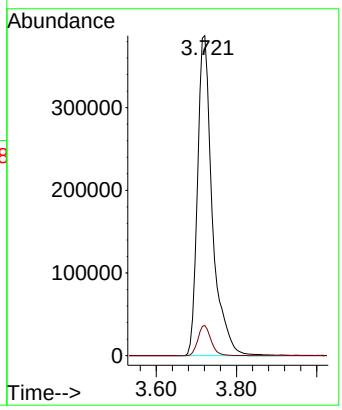





#23
Vinyl Acetate
Concen: 194.528 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 99423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.4 | 7.5 | 11.3 |

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VSTDICCC050

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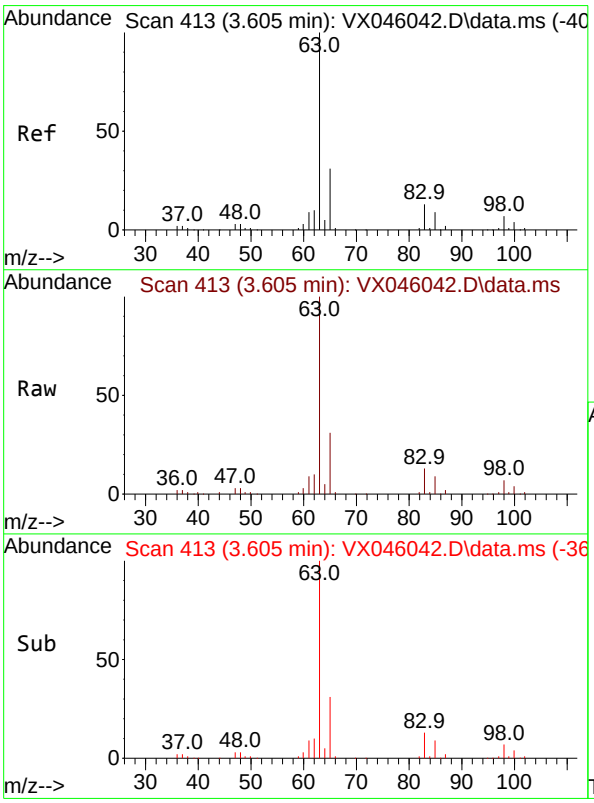
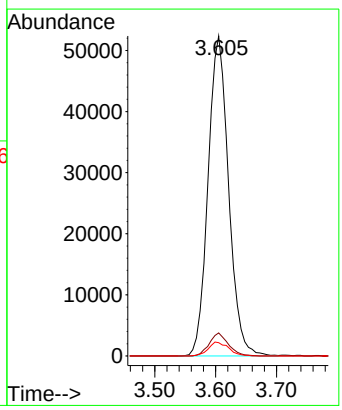
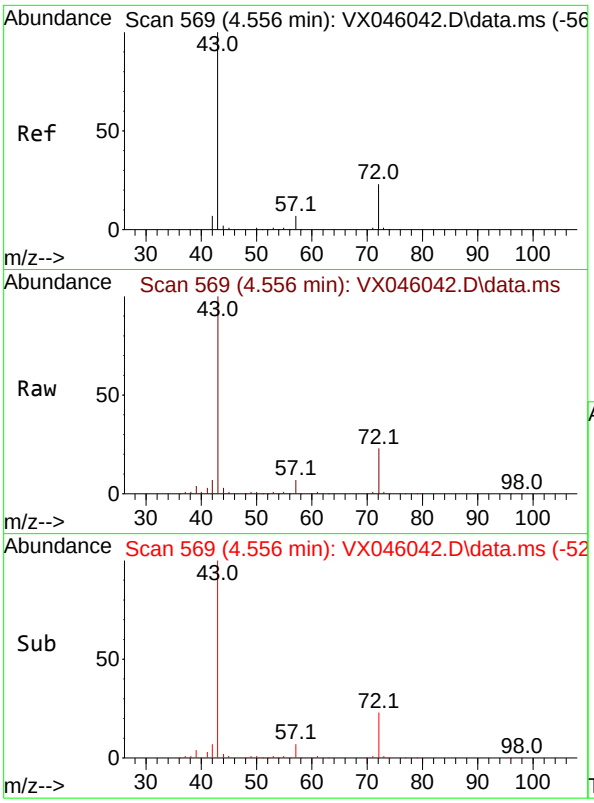



#24
1,1-Dichloroethane
Concen: 36.067 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 63 Resp: 122601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.6 | 10.8 |
| 100 | 4.2 | 2.1 | 6.3 |






#25
2-Butanone
Concen: 188.783 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 26922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.0 | 18.4 | 27.6 |

**Instrument :**
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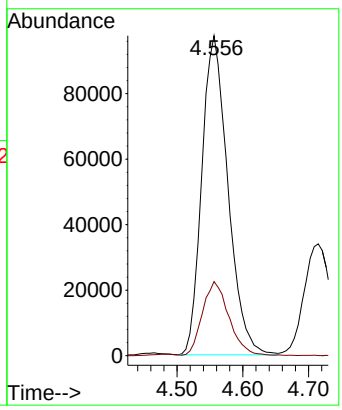
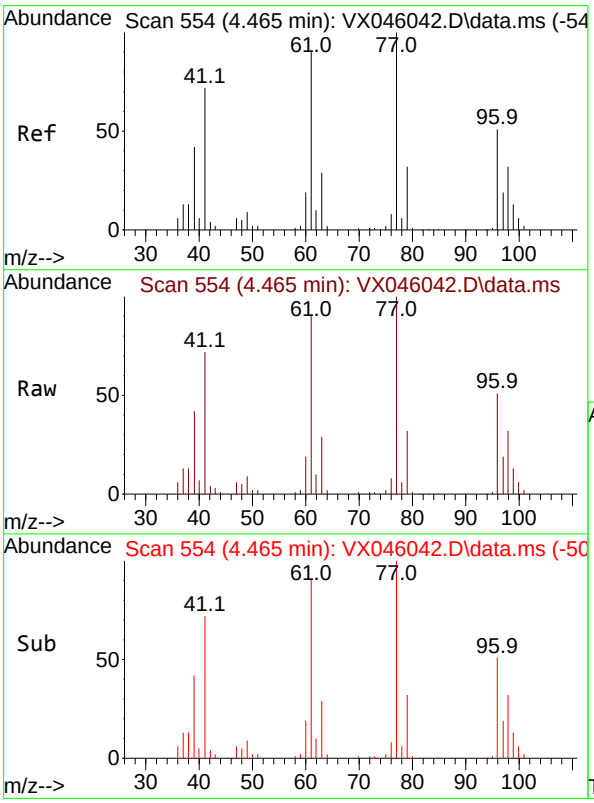
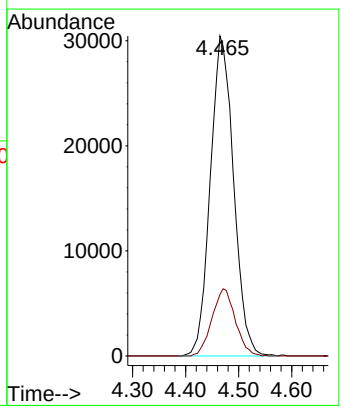


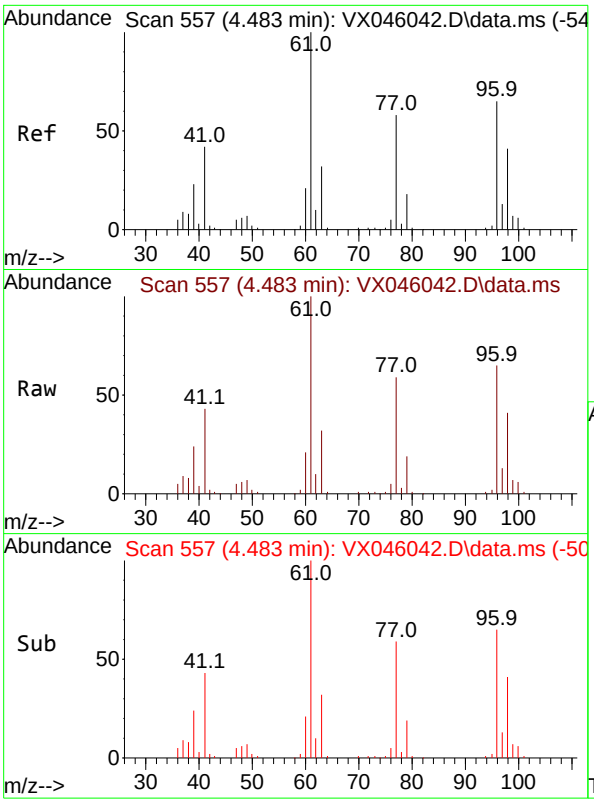




#26
2,2-Dichloropropane
Concen: 36.059 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 77 Resp: 92857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.0 | 10.5 | 31.5 |

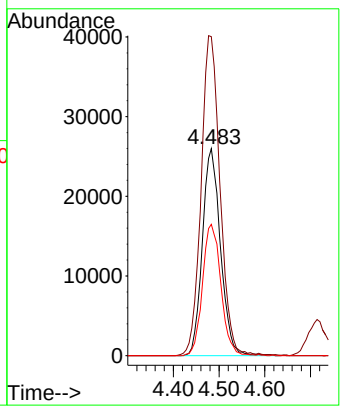





#27
cis-1,2-Dichloroethene
Concen: 35.466 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 96 Resp: 7151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.4 | 0.0 | 322.8 |
| 98 | 64.5 | 0.0 | 129.0 |

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VSTDICCC050

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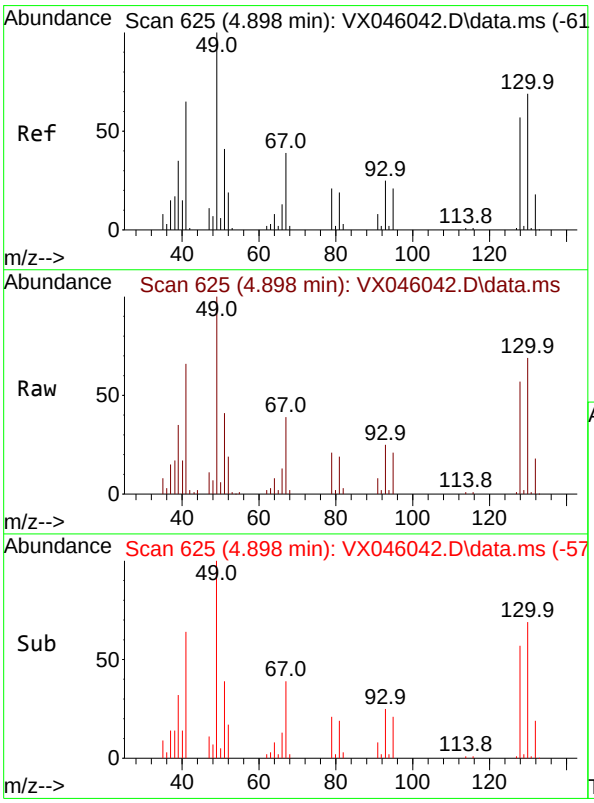
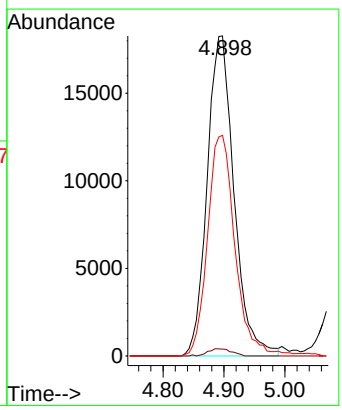
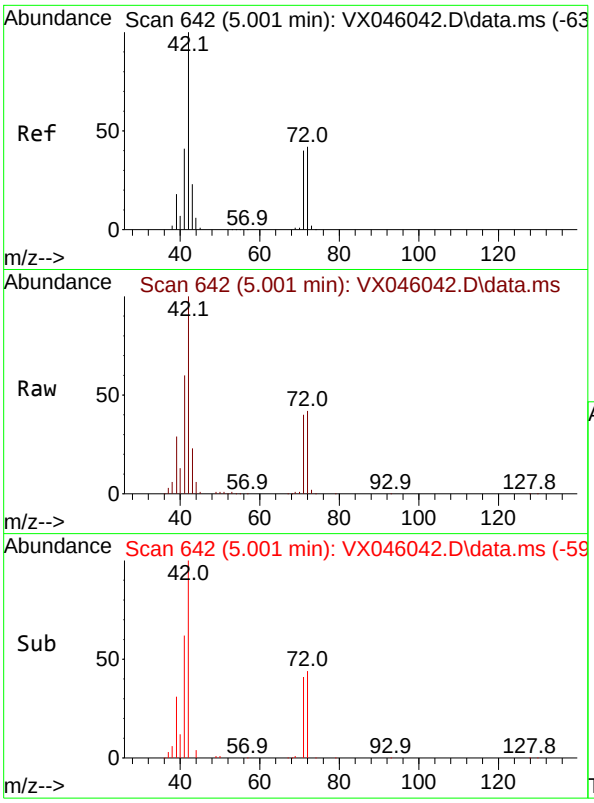



#28
Bromochloromethane
Concen: 31.031 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 49 Resp: 56091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 4.0 |
| 130 | 70.2 | 56.2 | 84.2 |

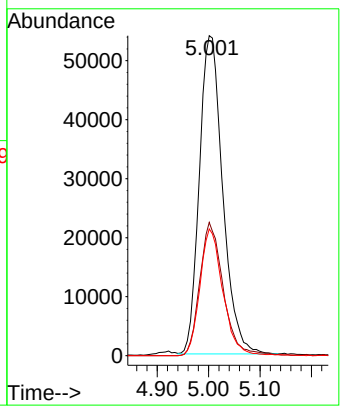





#29
Tetrahydrofuran
Concen: 183.679 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 42 Resp: 17012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.1 | 33.7 | 50.5 |
| 71 | 39.3 | 31.4 | 47.2 |




**Instrument :**
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VSTDICCC050

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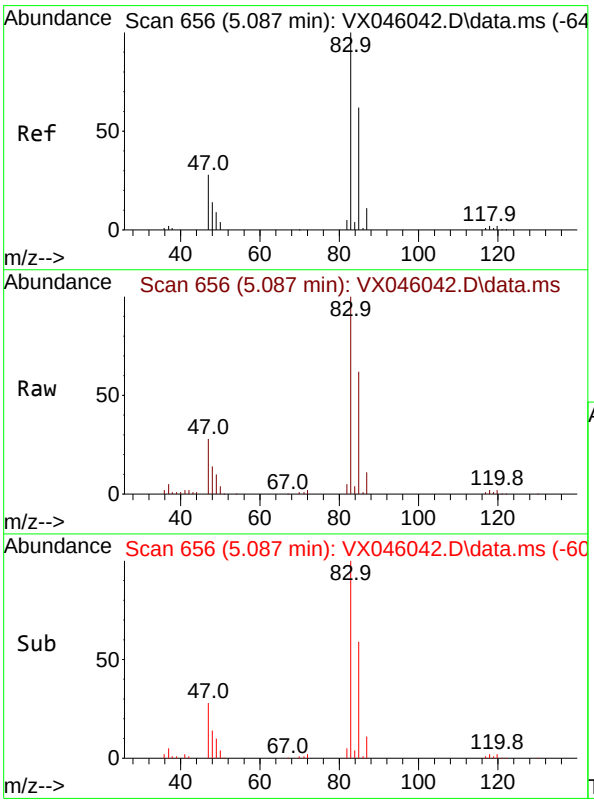
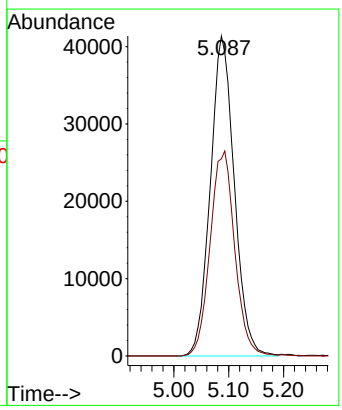
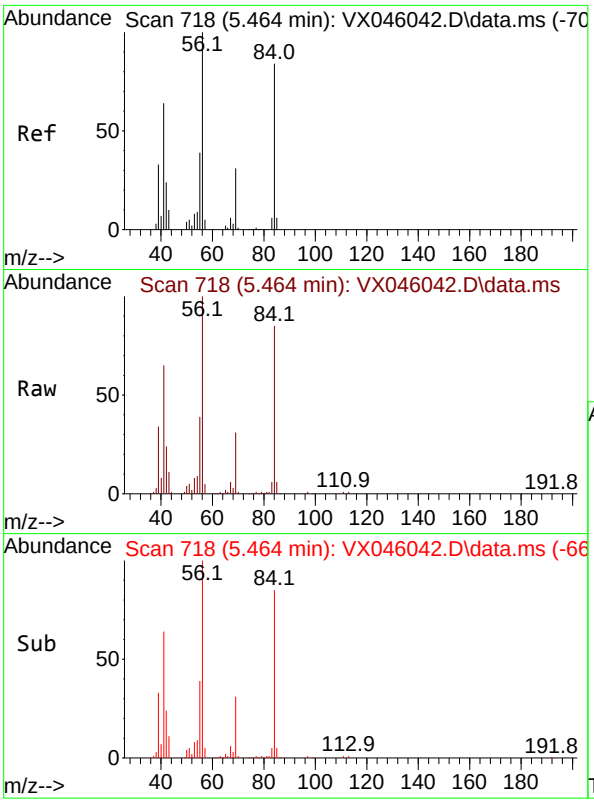



#30
Chloroform
Concen: 35.626 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 83 Resp: 125850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.6 | 49.3 | 73.9 |

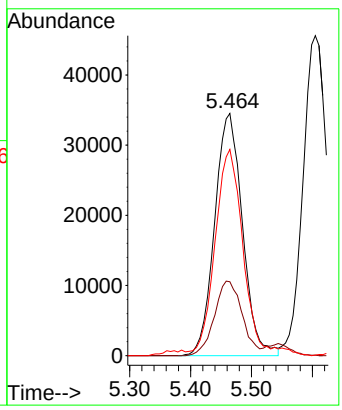





#31
Cyclohexane
Concen: 38.205 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 56 Resp: 10945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 30.5 | 24.4 | 36.6 |
| 84 | 83.6 | 66.9 | 100.3 |




**Instrument :**
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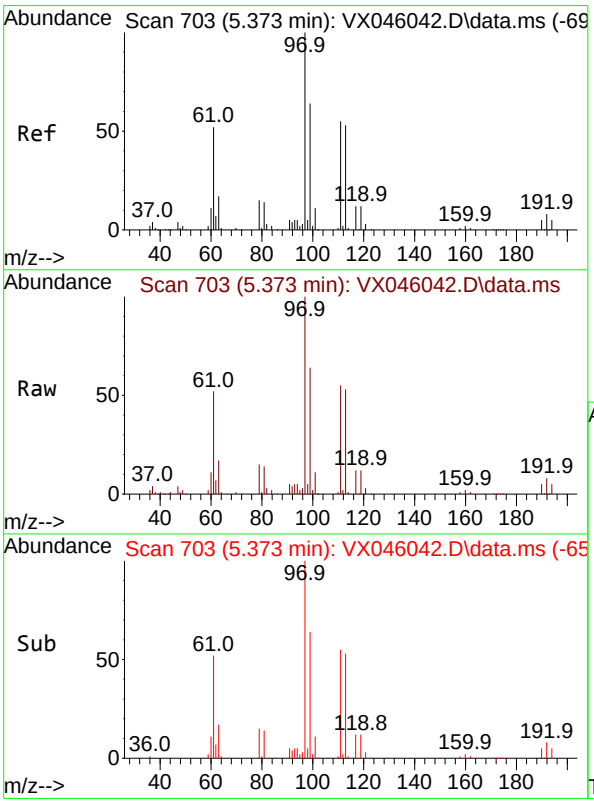
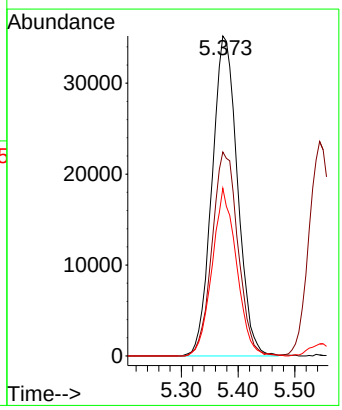
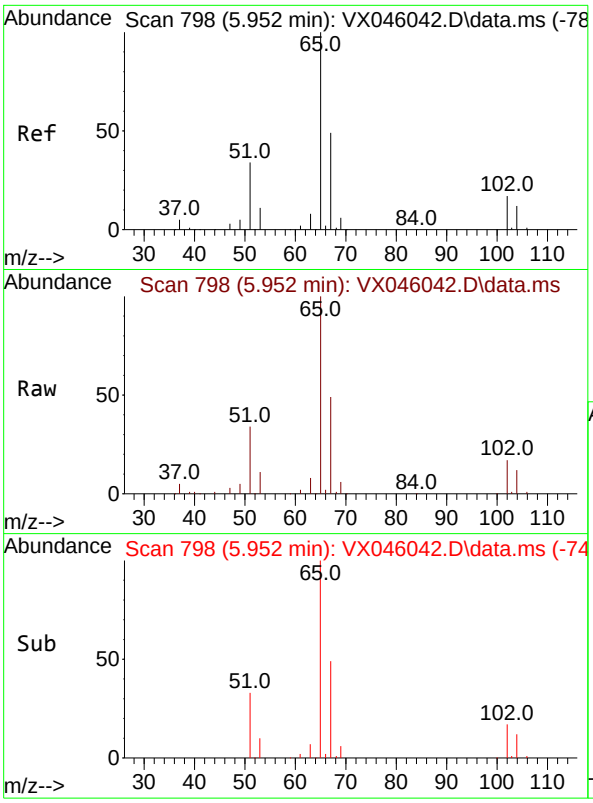



#32
1,1,1-Trichloroethane
Concen: 36.034 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 97 Resp: 109781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.7 | 51.8 | 77.6 |
| 61 | 50.1 | 40.1 | 60.1 |

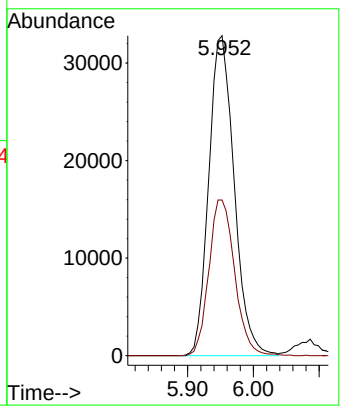





#33
1,2-Dichloroethane-d4
Concen: 30.601 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 65 Resp: 8837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.5 | 0.0 | 99.0 |

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MSVOA_X
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VSTDICCC050

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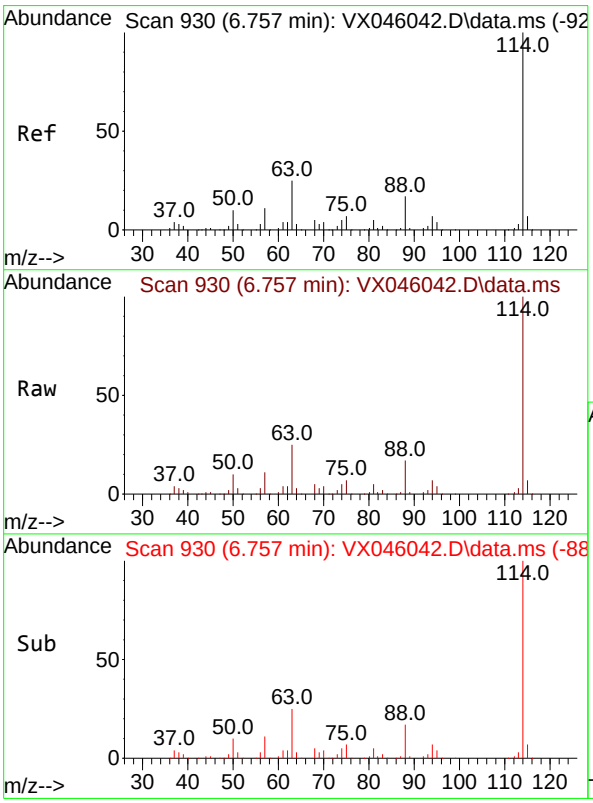
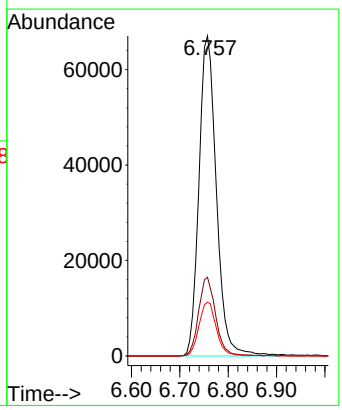
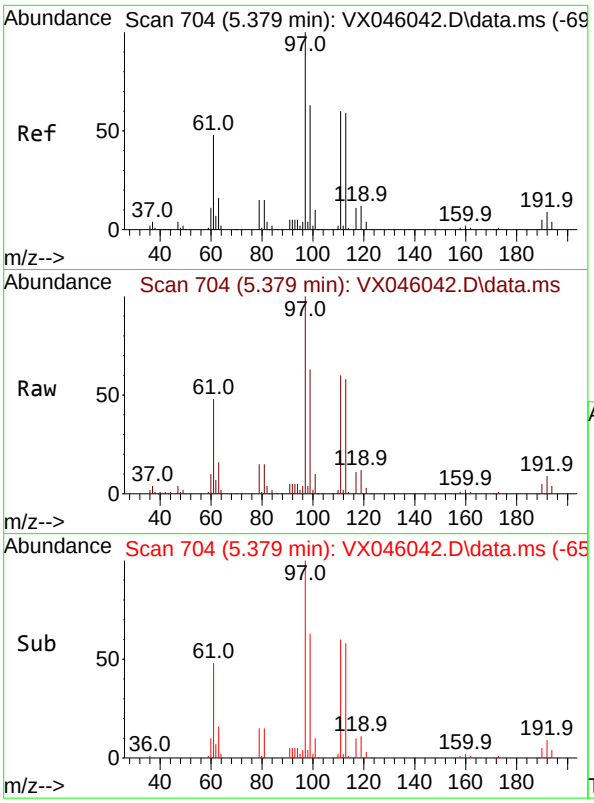



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:114 Resp: 167947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 24.6 | 0.0 | 49.2 |
| 88 | 16.8 | 0.0 | 33.6 |

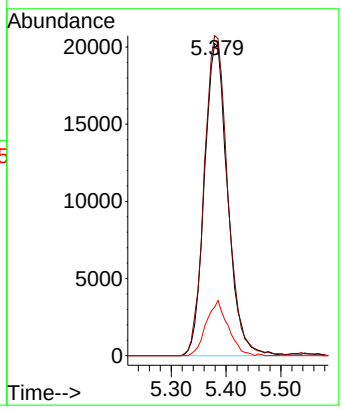





#35
Dibromofluoromethane
Concen: 31.633 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:113 Resp: 5955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.9 | 83.1 | 124.7 |
| 192 | 16.6 | 13.3 | 19.9 |

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MSVOA_X
**ClientSampleId :**
VSTDICCC050

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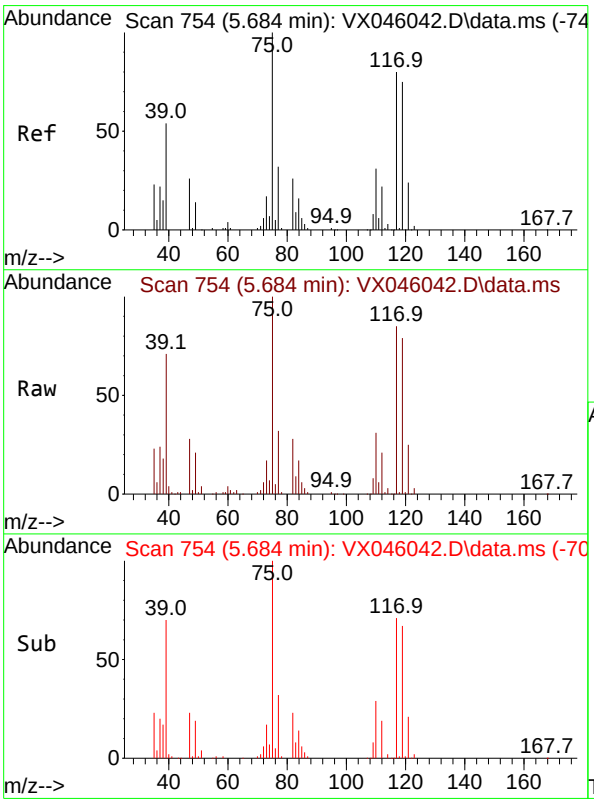
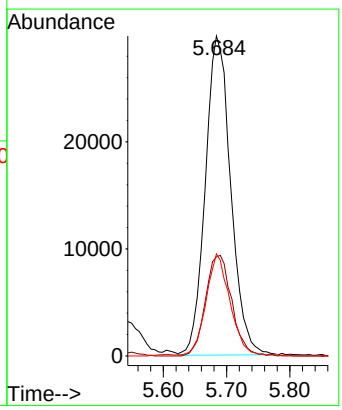
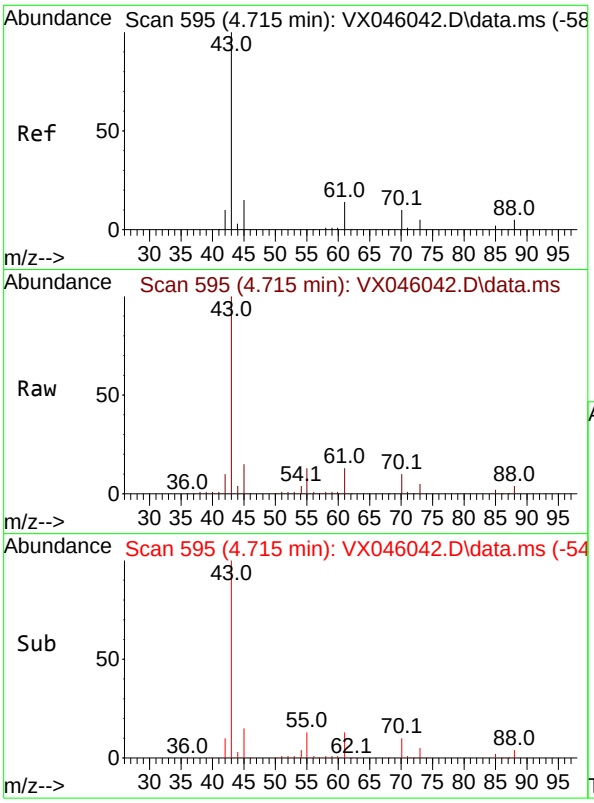



#36
1,1-Dichloropropene
Concen: 38.073 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 83215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 32.6 | 16.3 | 48.9 |
| 77 | 30.4 | 24.3 | 36.5 |

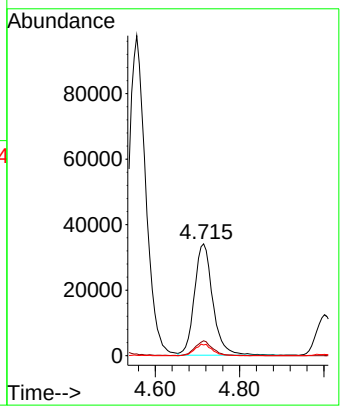





#37
Ethyl Acetate
Concen: 37.394 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 10253

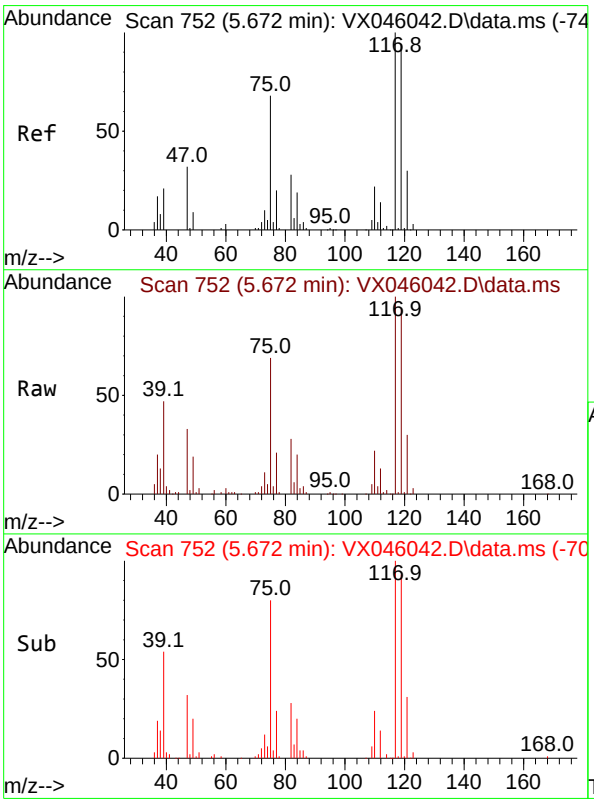
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 12.9 | 10.3 | 15.5 |
| 70 | 9.9 | 7.9 | 11.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

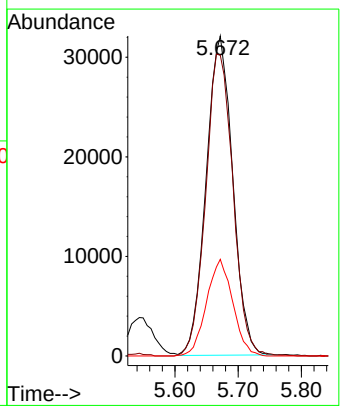
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

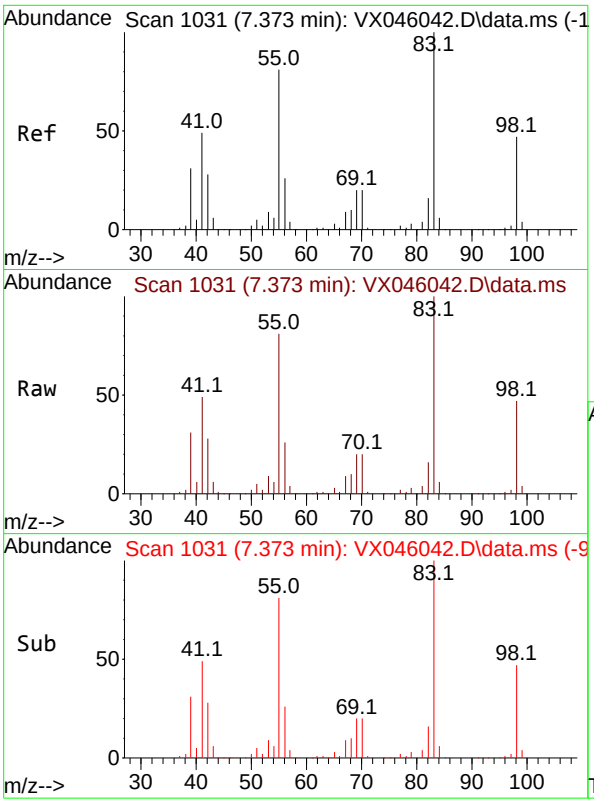



#38
Carbon Tetrachloride
Concen: 37.320 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:117 Resp: 93712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.0 | 75.2 | 112.8 |
| 121 | 30.3 | 24.2 | 36.4 |

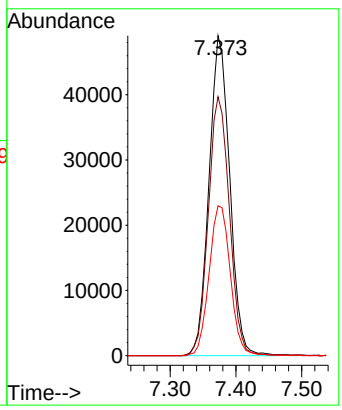





#39
Methylcyclohexane
Concen: 39.307 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 83 Resp: 10765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 80.9 | 64.7 | 97.1 |
| 98 | 46.8 | 37.4 | 56.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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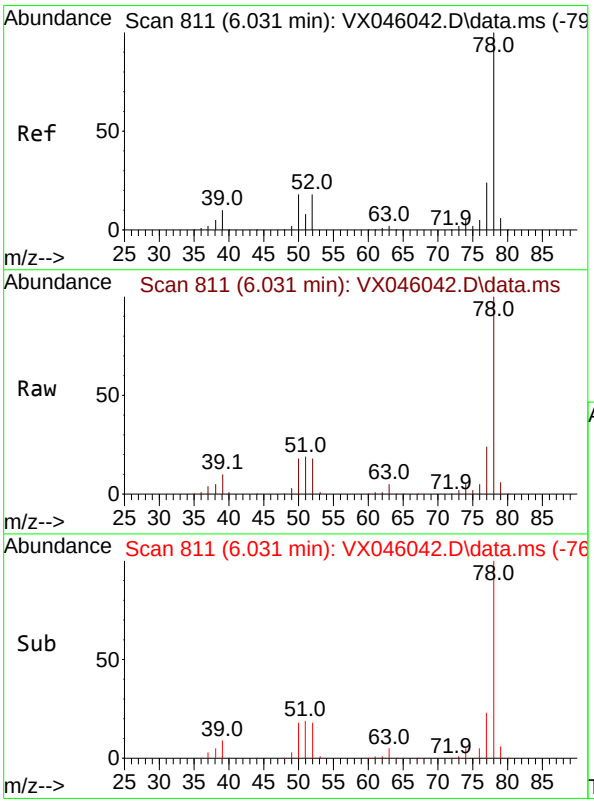
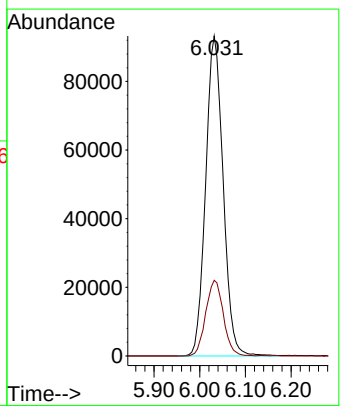
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

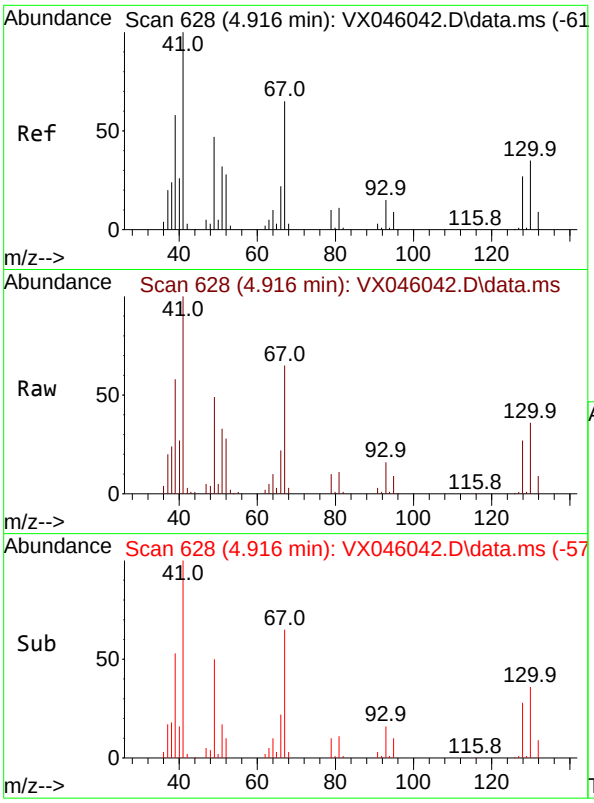



#40
Benzene
Concen: 36.530 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 78 Resp: 247476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 19.0 | 28.4 |

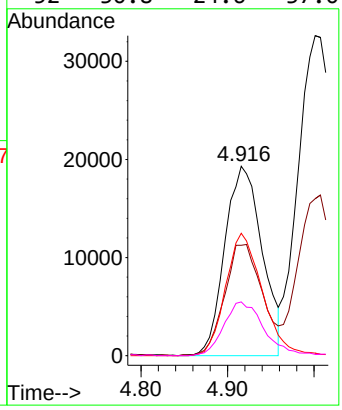





#41
Methacrylonitrile
Concen: 38.123 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 41 Resp: 5808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 59.0 | 47.2 | 70.8 |
| 67 | 63.4 | 50.7 | 76.1 |
| 52 | 30.8 | 24.6 | 37.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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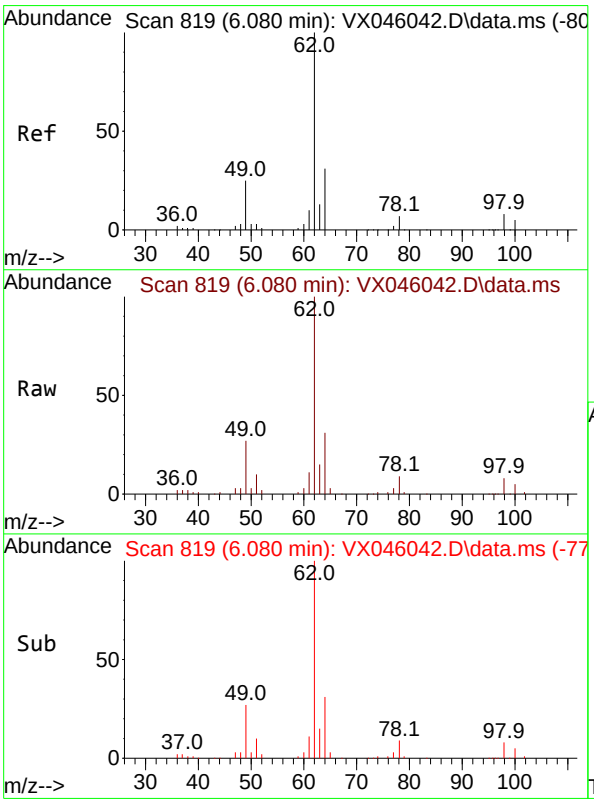
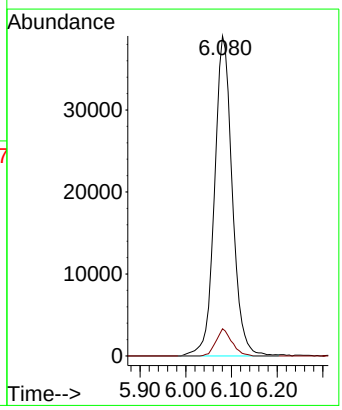
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

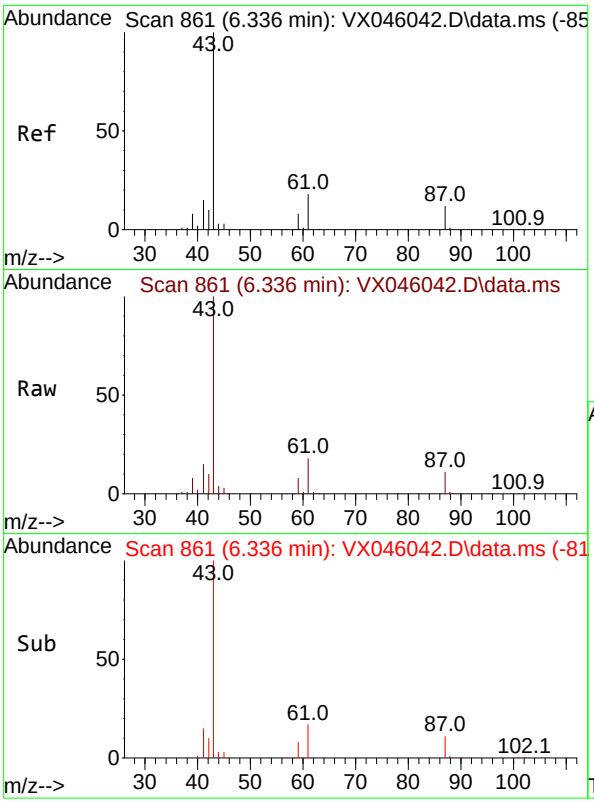



#42
1,2-Dichloroethane
Concen: 37.605 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 62 Resp: 105332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.6 | 0.0 | 15.2 |

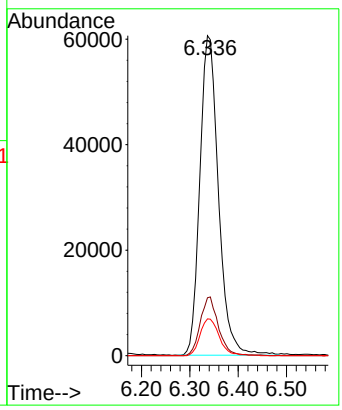





#43
Isopropyl Acetate
Concen: 38.598 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 16178

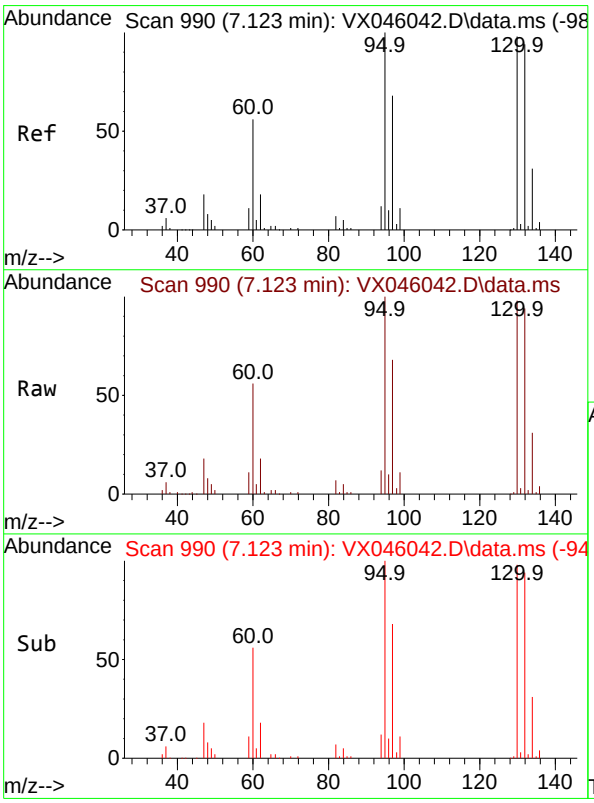
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 17.9 | 14.3 | 21.5 |
| 87 | 11.9 | 9.5 | 14.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

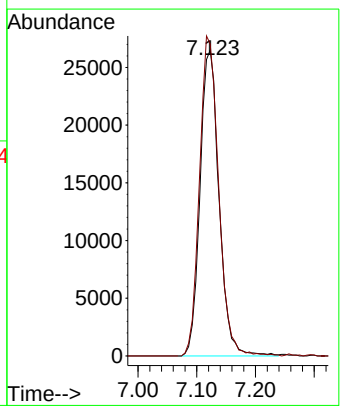
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

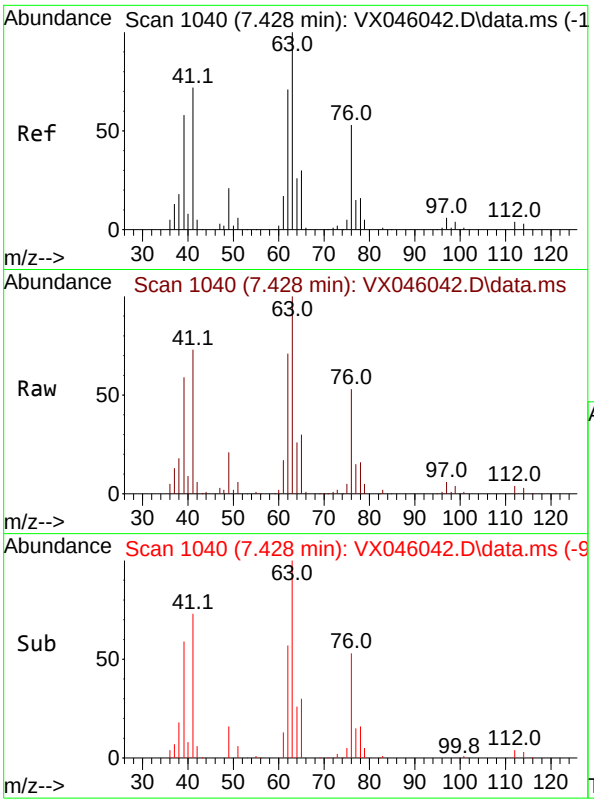



#44
Trichloroethene
Concen: 37.230 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:130 Resp: 59623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.1 | 0.0 | 204.2 |

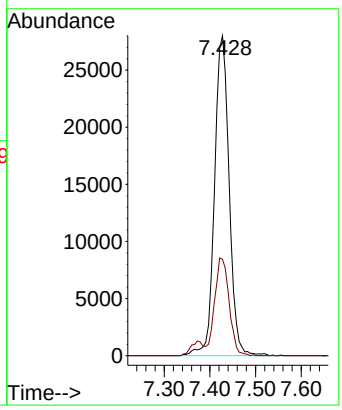





#45
1,2-Dichloropropane
Concen: 37.064 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 63 Resp: 6238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.1 | 24.1 | 36.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

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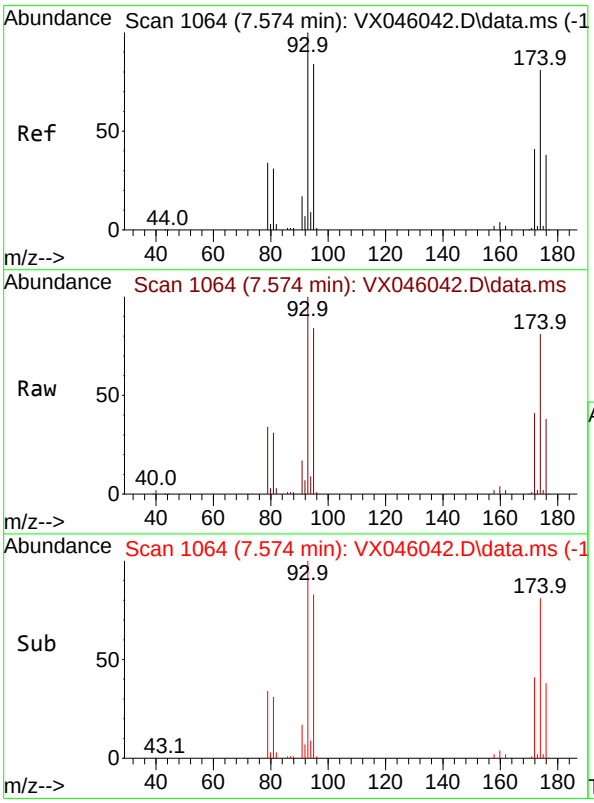
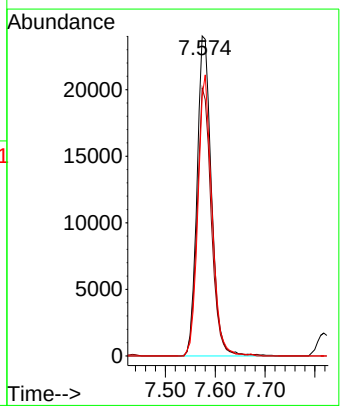
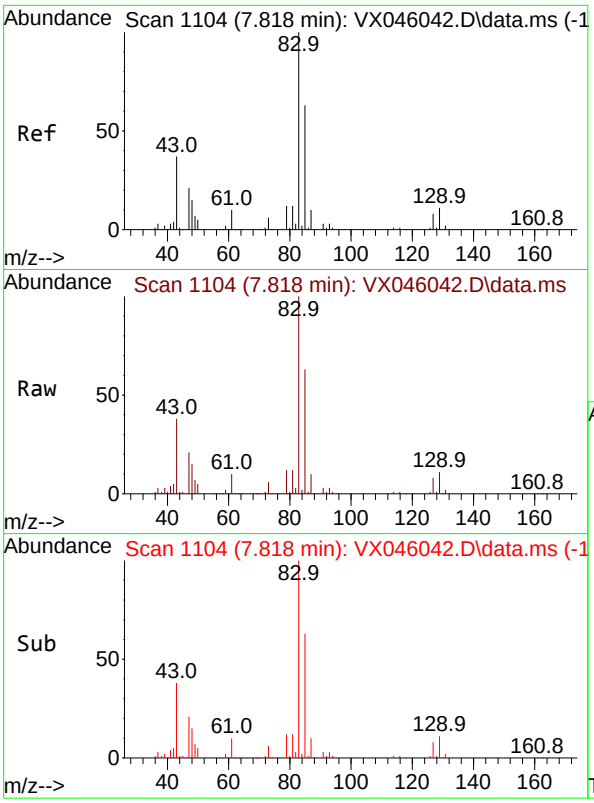



#46
Dibromomethane
Concen: 36.326 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 93 Resp: 48201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.0 | 65.6 | 98.4 |
| 174 | 85.2 | 68.2 | 102.2 |

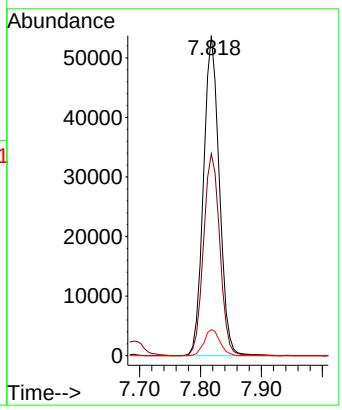





#47
Bromodichloromethane
Concen: 37.685 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 83 Resp: 9691

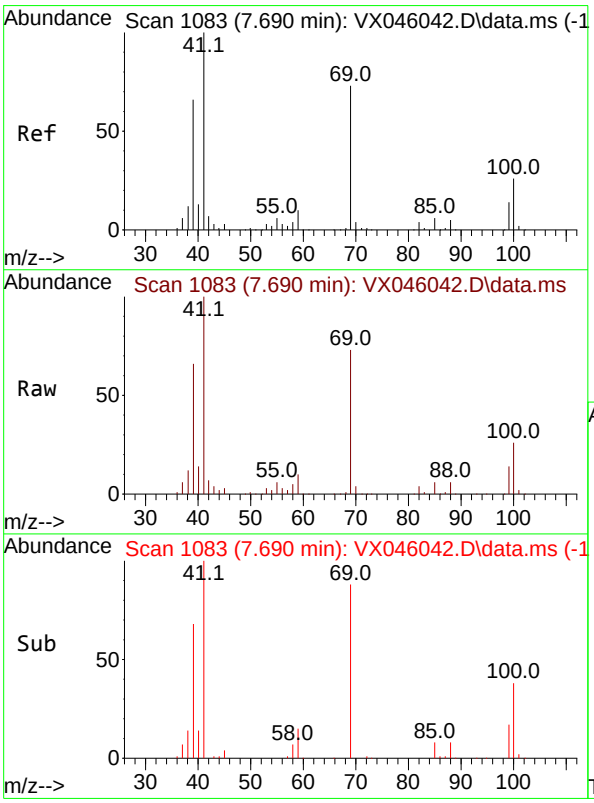
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.1 | 50.5 | 75.7 |
| 127 | 8.1 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

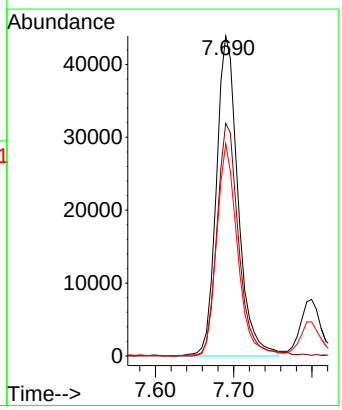
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

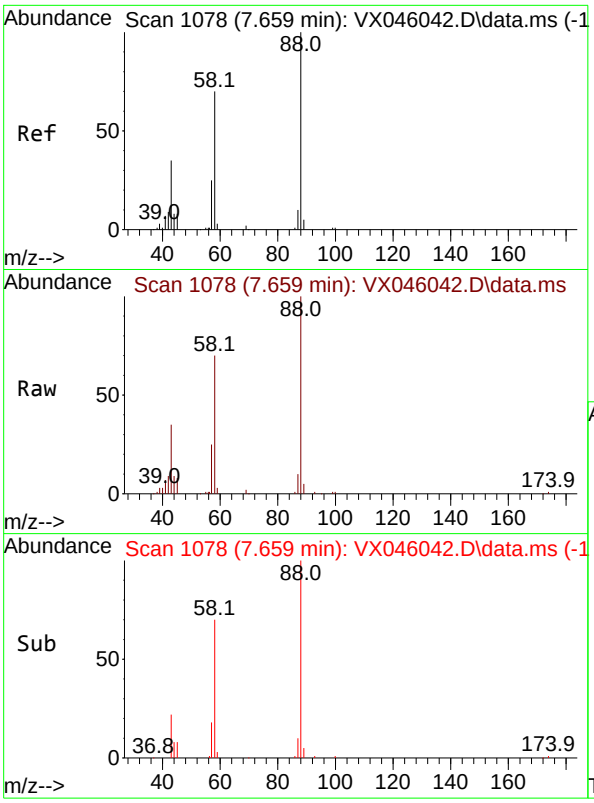



#48
Methyl methacrylate
Concen: 39.157 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 41 Resp: 84277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 73.1 | 58.5 | 87.7 |
| 39 | 64.6 | 51.7 | 77.5 |

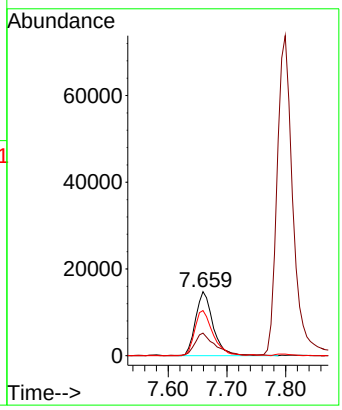





#49
1,4-Dioxane
Concen: 713.477 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 88 Resp: 3052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 41.8 | 33.4 | 50.2 |
| 58 | 73.3 | 58.6 | 88.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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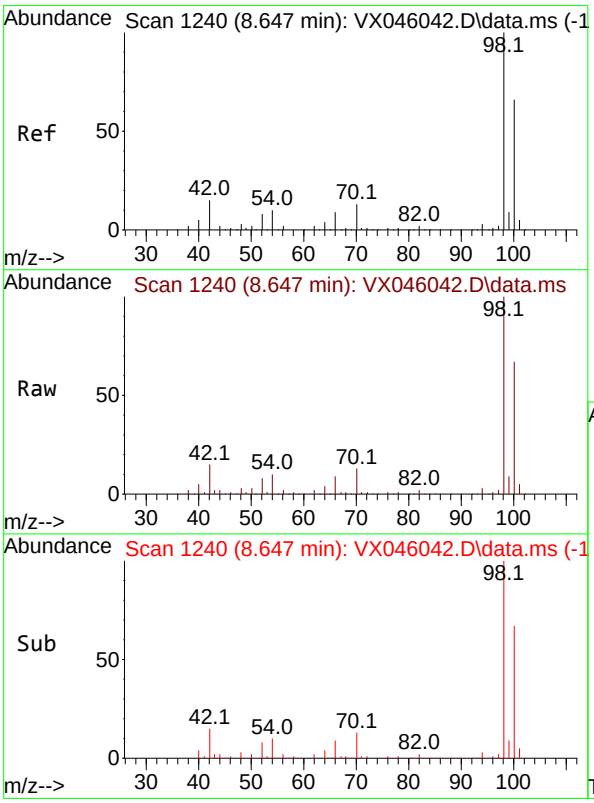
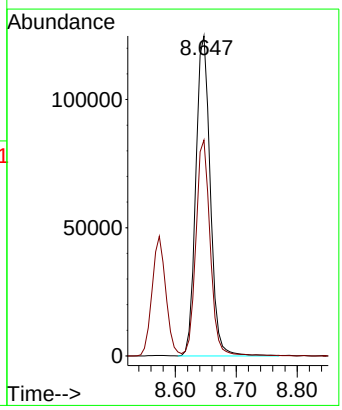
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

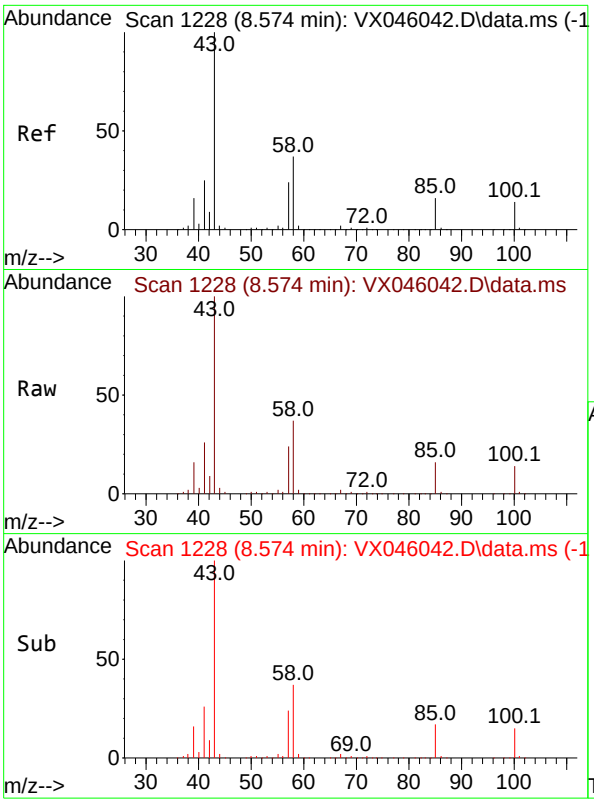



#50
Toluene-d8
Concen: 32.395 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 98 Resp: 205479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.9 | 53.5 | 80.3 |

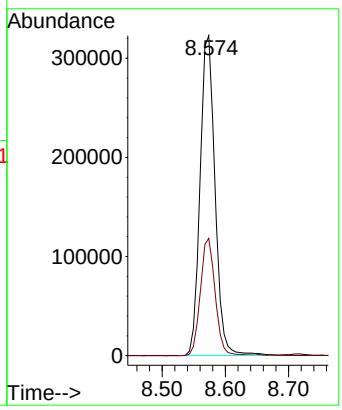





#51
4-Methyl-2-Pentanone
Concen: 193.653 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 53238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.1 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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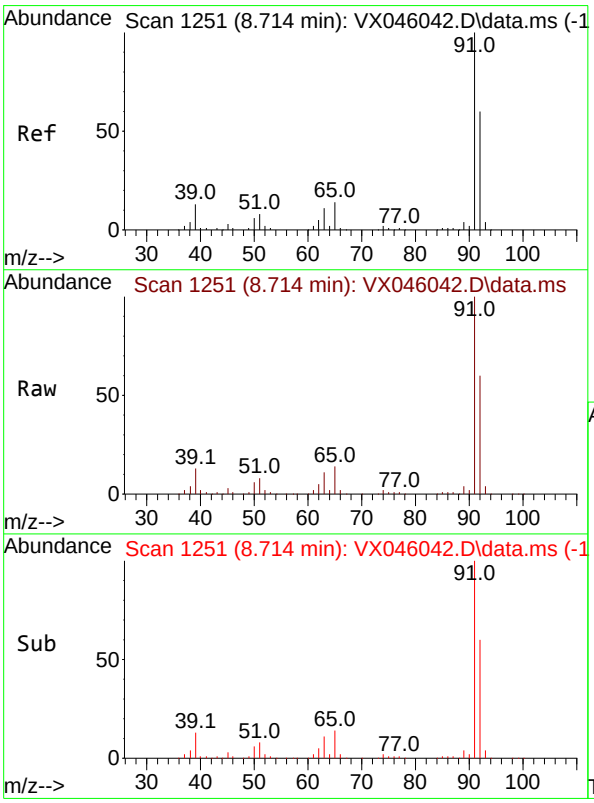
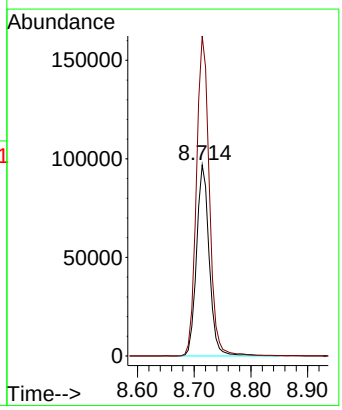
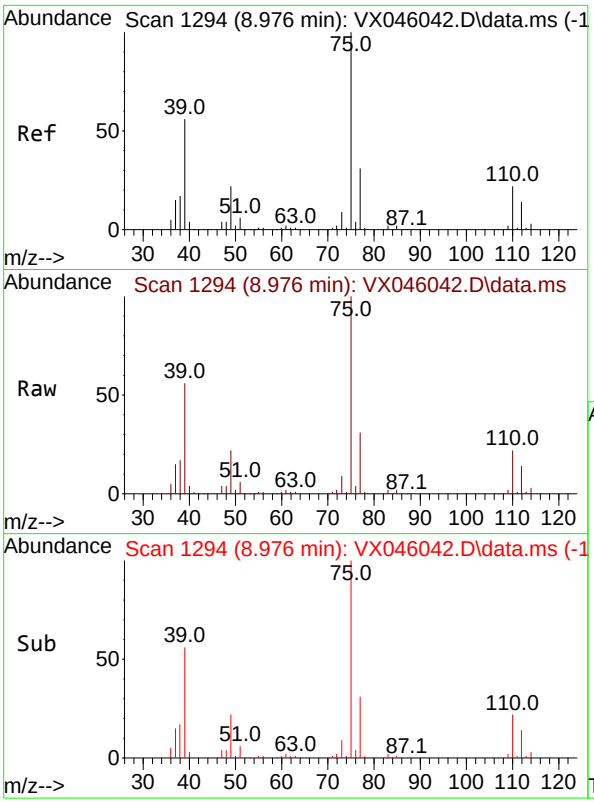



#52
Toluene
Concen: 37.530 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 92 Resp: 150757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.8 | 136.6 | 205.0 |

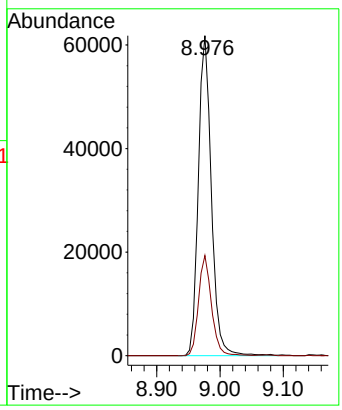





#53
t-1,3-Dichloropropene
Concen: 41.056 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 8865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.0 | 37.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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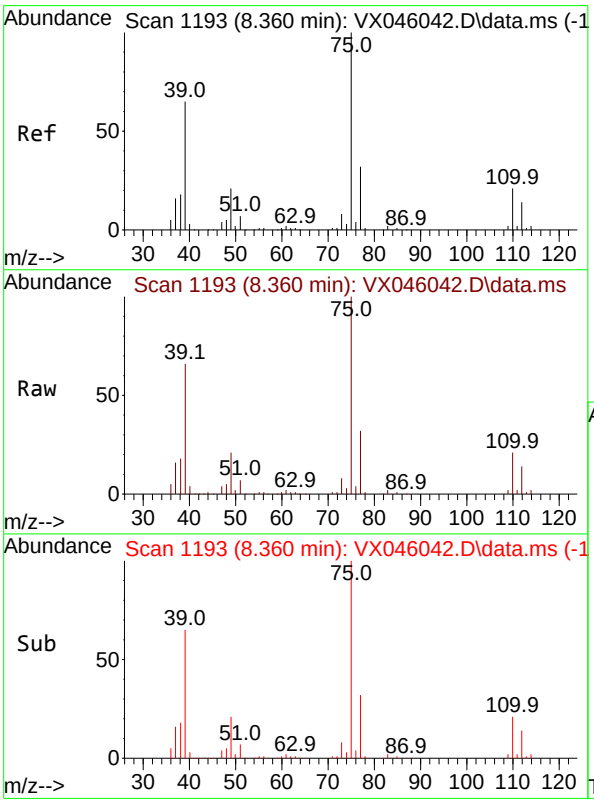
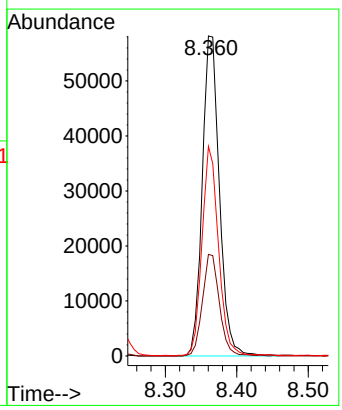
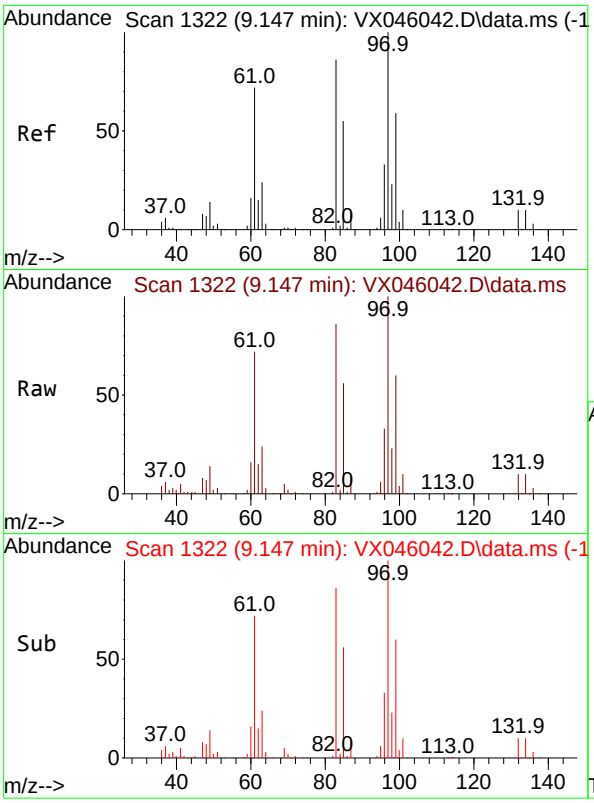



#54
cis-1,3-Dichloropropene
Concen: 38.521 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 97031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.4 | 38.0 |
| 39 | 65.3 | 52.2 | 78.4 |

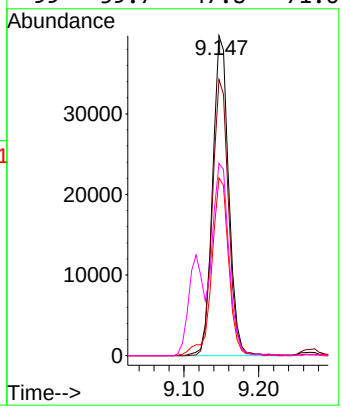





#55
1,1,2-Trichloroethane
Concen: 36.648 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 97 Resp: 5949

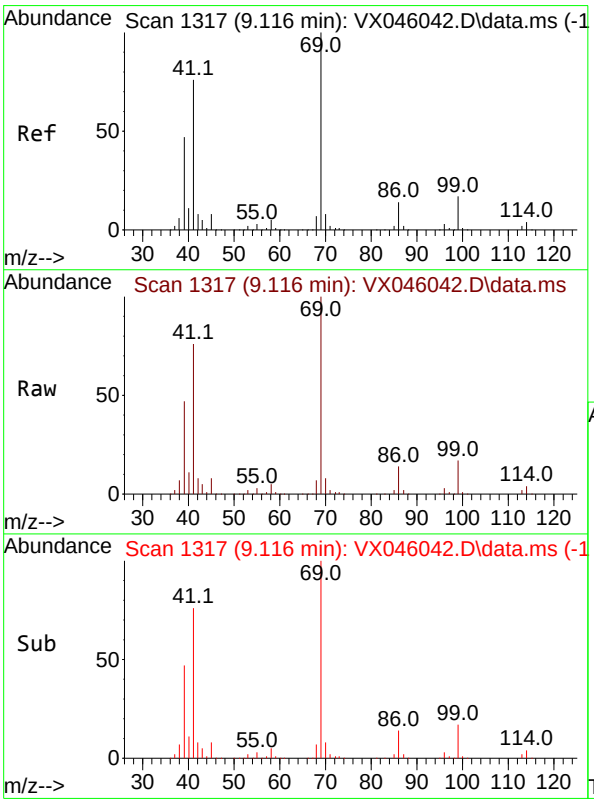
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.3 | 69.0 | 103.6 |
| 85 | 55.4 | 44.3 | 66.5 |
| 99 | 59.7 | 47.8 | 71.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

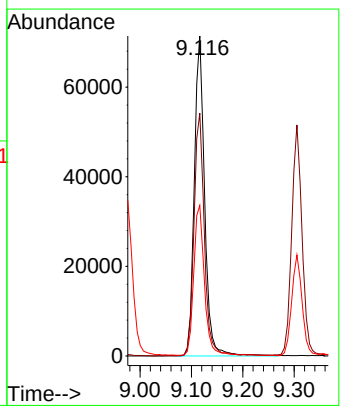
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

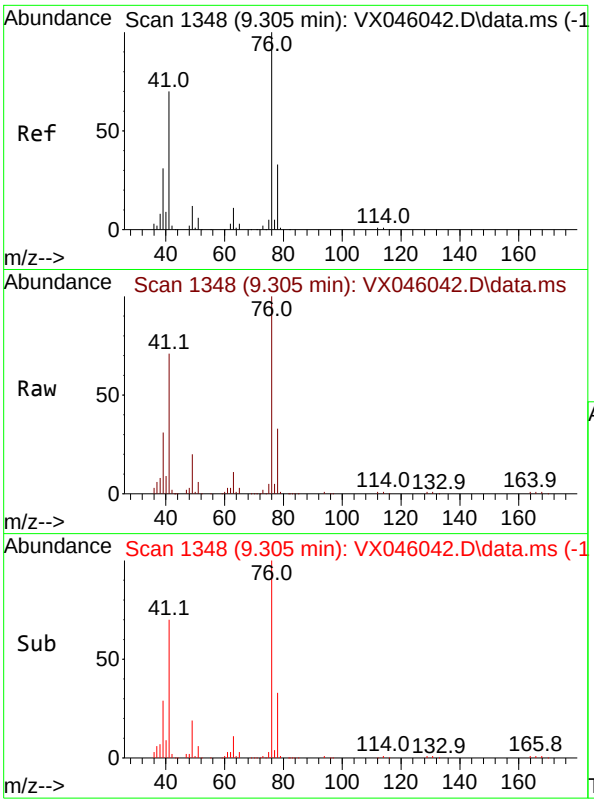



#56
Ethyl methacrylate
Concen: 39.726 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 69 Resp: 99947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 76.0 | 60.8 | 91.2 |
| 39 | 48.8 | 39.0 | 58.6 |

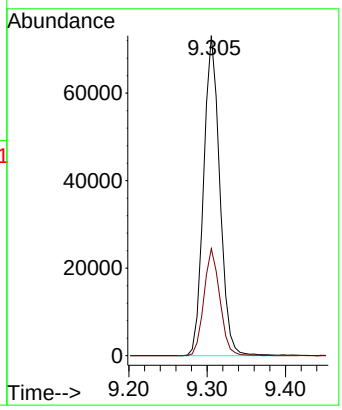





#57
1,3-Dichloropropane
Concen: 36.347 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 76 Resp: 10460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.9 | 26.3 | 39.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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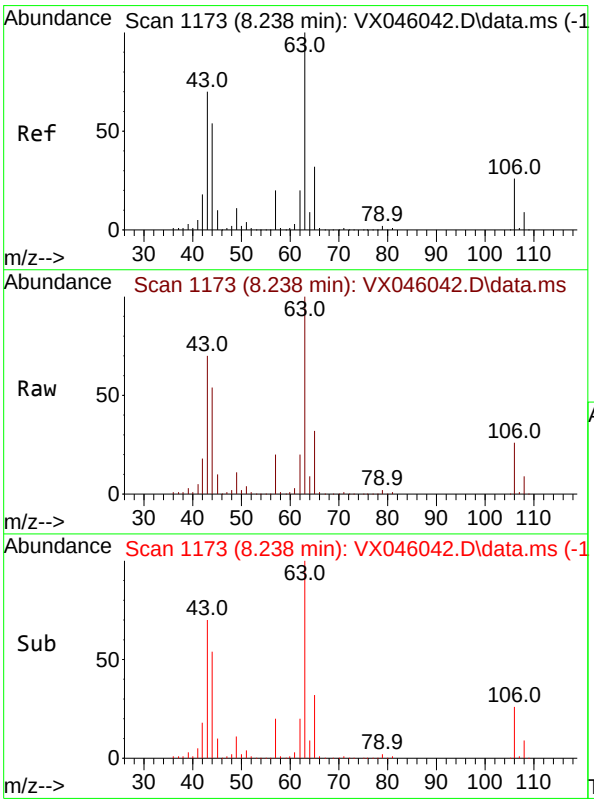
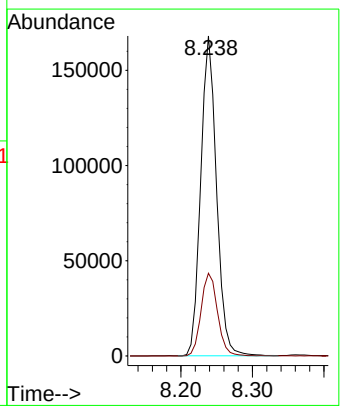
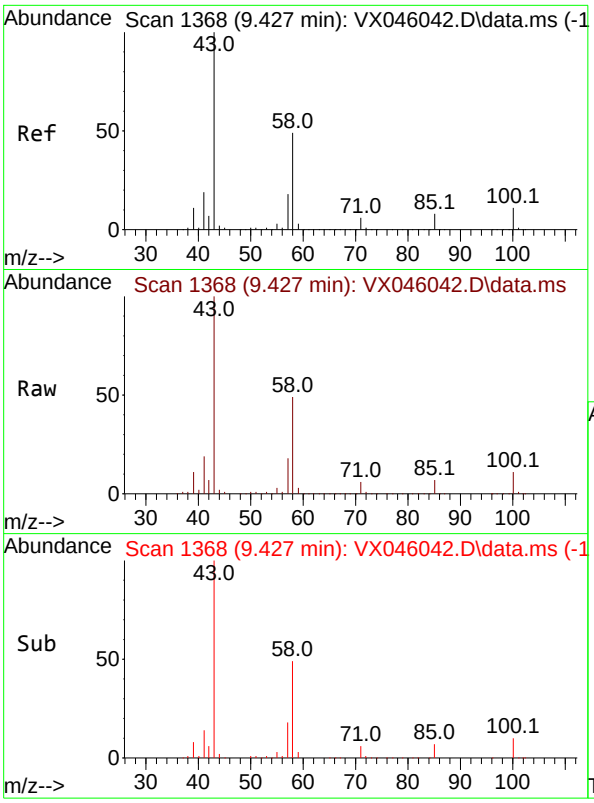



#58
2-Chloroethyl Vinyl ether
Concen: 227.902 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 63 Resp: 257678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.9 | 21.5 | 32.3 |






#59
2-Hexanone
Concen: 190.168 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

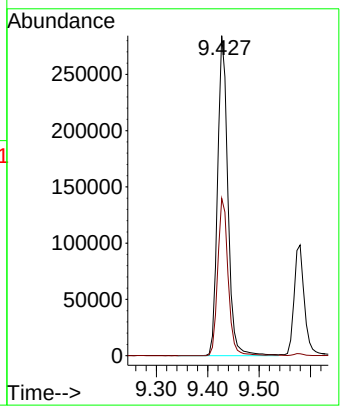
Tgt Ion: 43 Resp: 39678

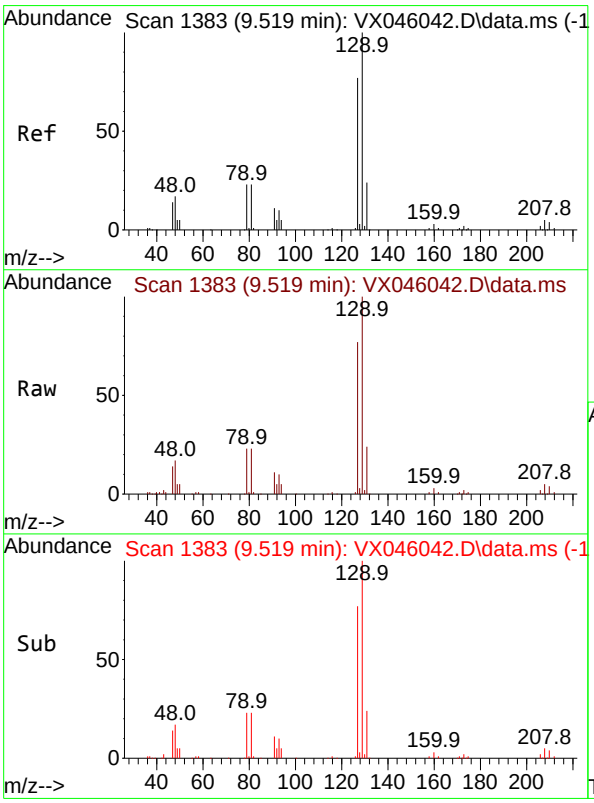
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.7 | 24.9 | 74.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

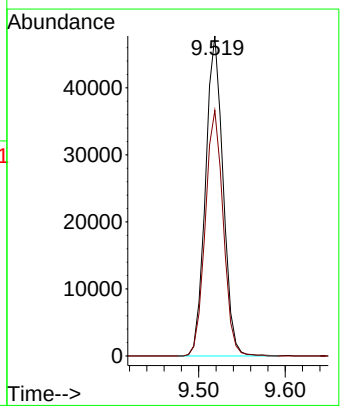


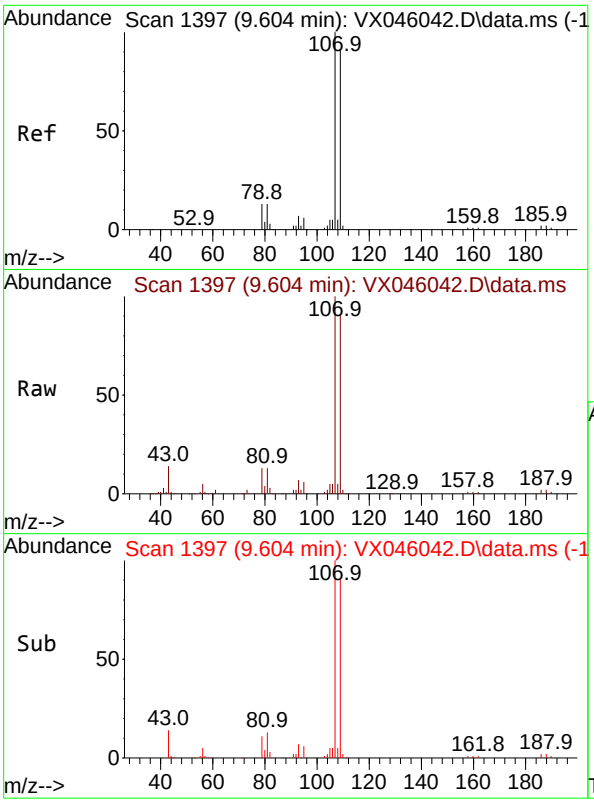




#60
Dibromochloromethane
Concen: 38.027 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:129 Resp: 67198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.5 | 39.3 | 117.8 |

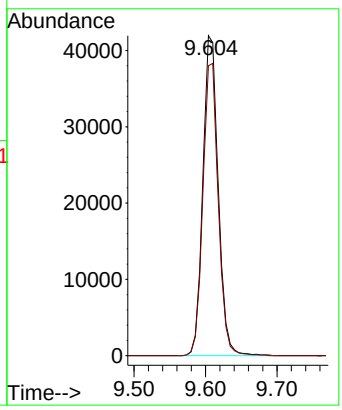





#61
1,2-Dibromoethane
Concen: 37.567 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:107 Resp: 6263

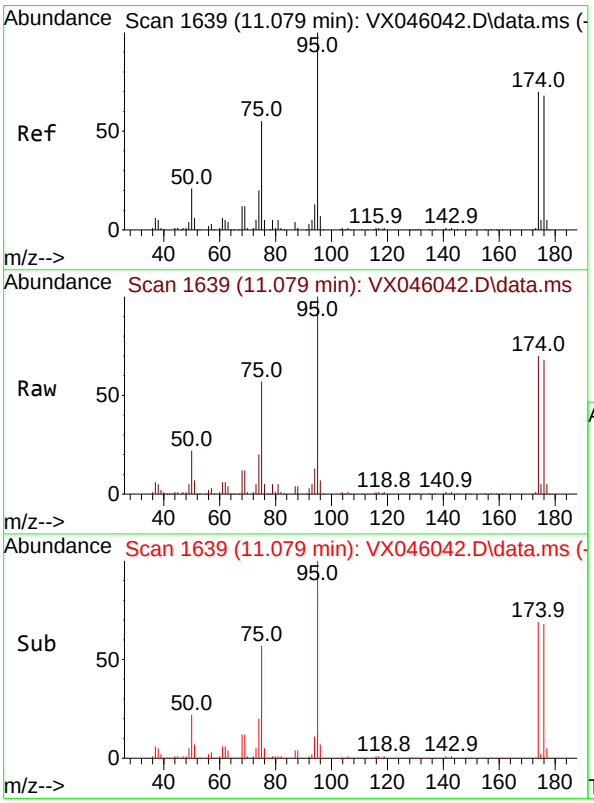
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.6 | 73.3 | 109.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

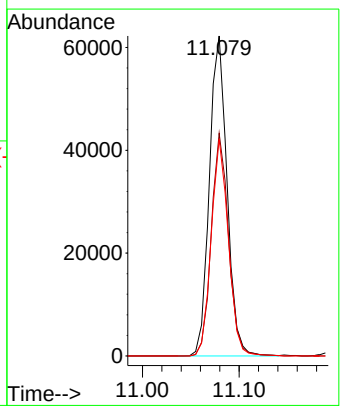
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

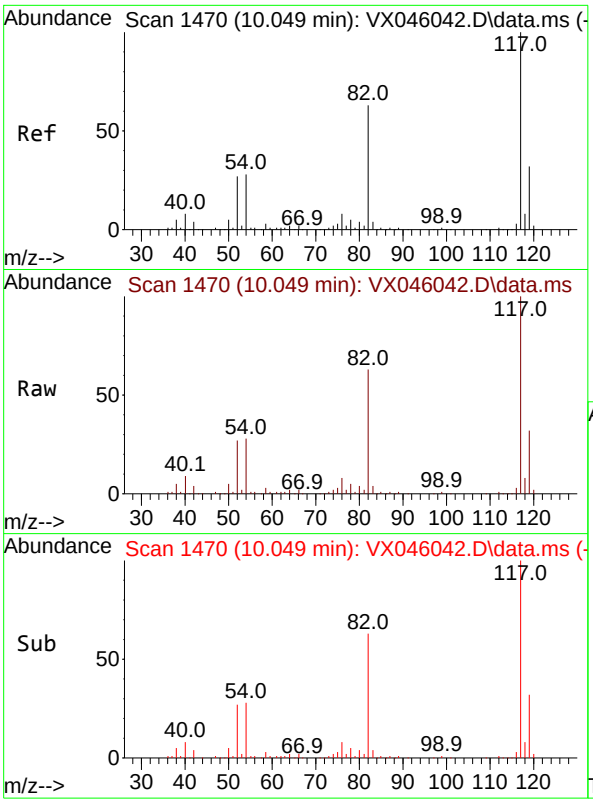



#62
4-Bromofluorobenzene
Concen: 34.229 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 95 Resp: 79012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.9 | 0.0 | 135.8 |
| 176 | 65.7 | 0.0 | 131.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:117 Resp: 14625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 63.3 | 50.6 | 76.0 |
| 119 | 32.2 | 25.8 | 38.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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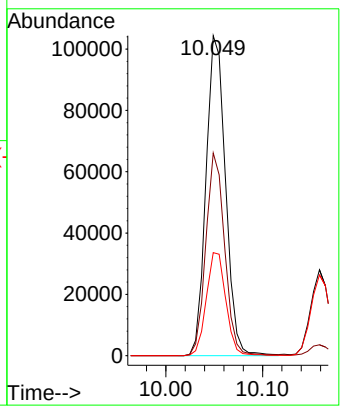
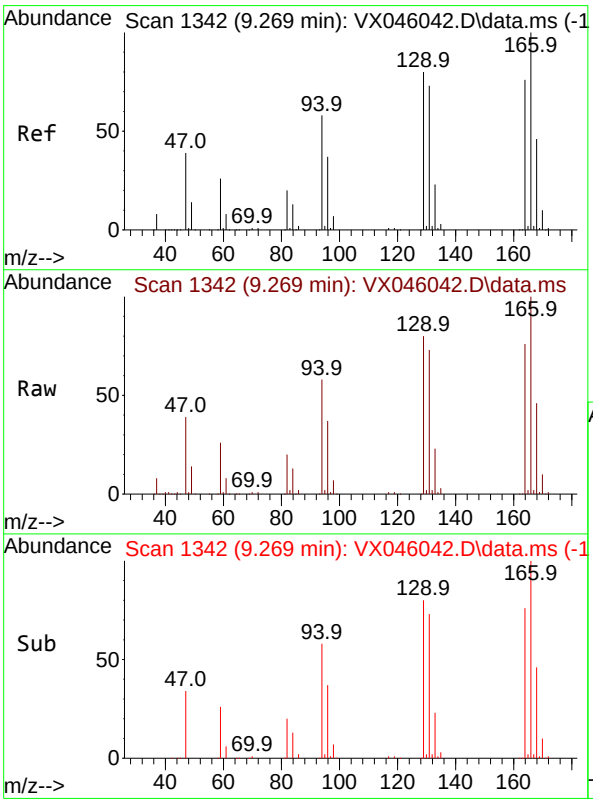
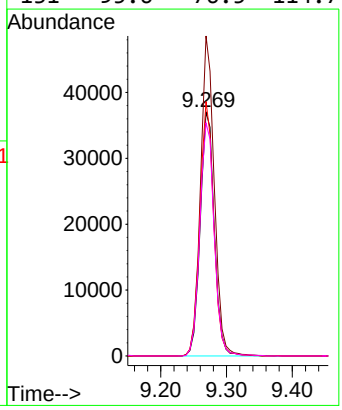


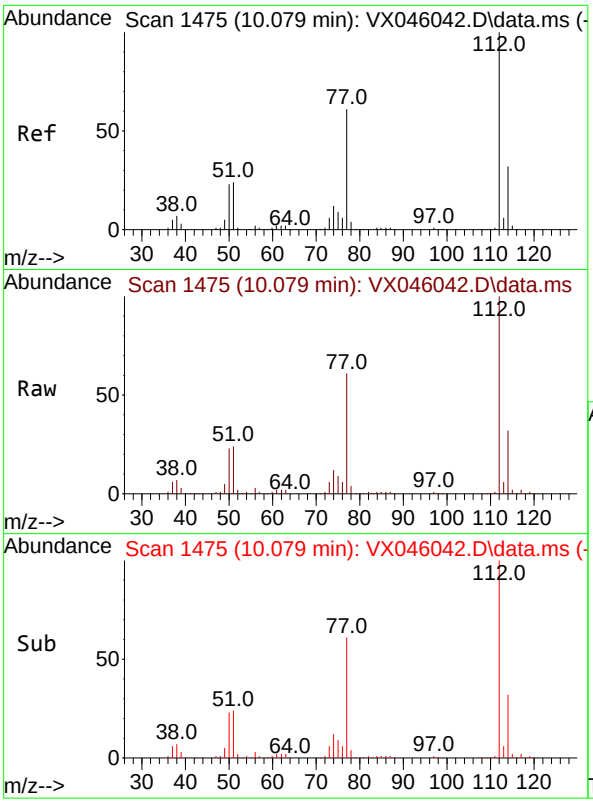




#64
Tetrachloroethene
Concen: 36.726 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:164 Resp: 54853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 131.3 | 105.0 | 157.6 |
| 129 | 104.4 | 83.5 | 125.3 |
| 131 | 95.6 | 76.5 | 114.7 |






#65
Chlorobenzene
Concen: 35.686 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

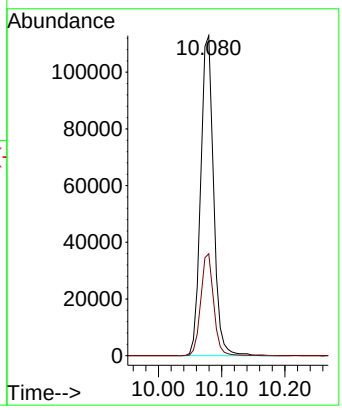
Tgt Ion:112 Resp: 16060

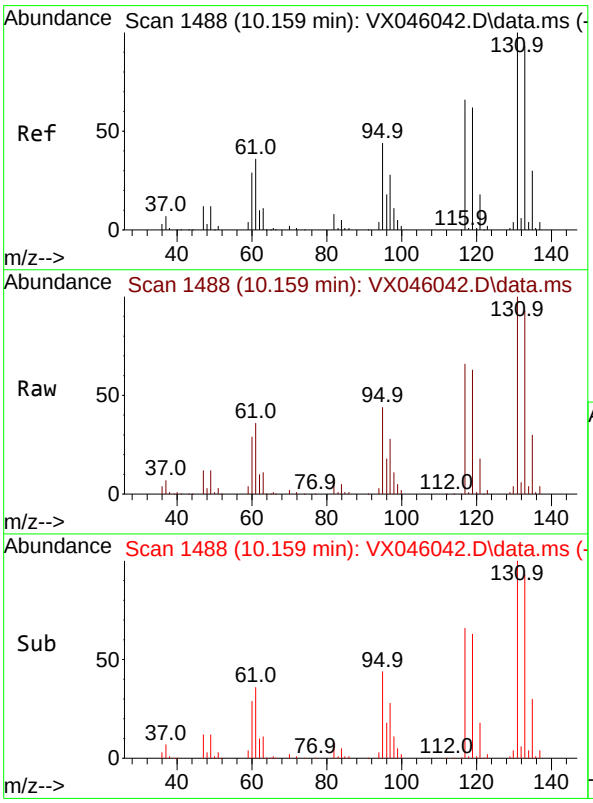
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.8 | 25.4 | 38.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

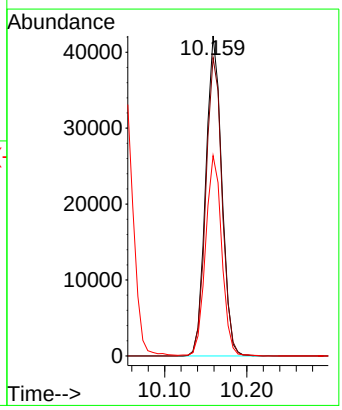


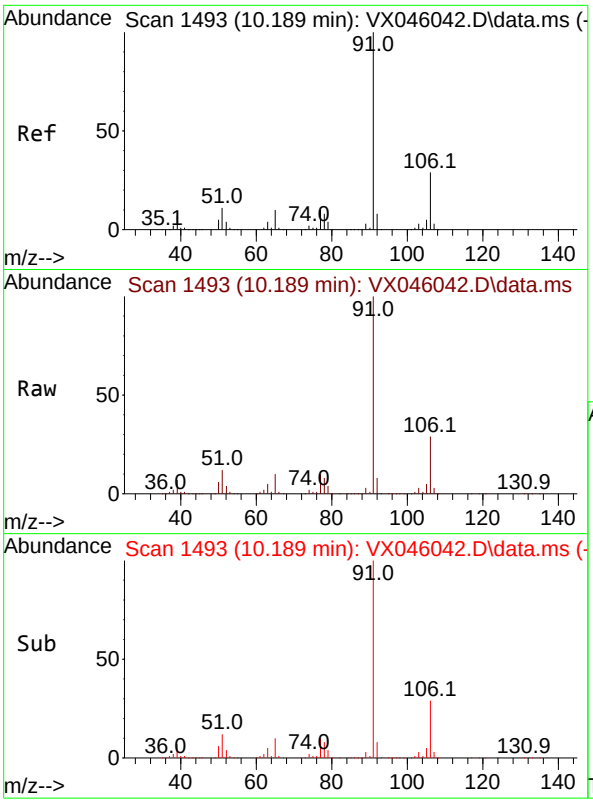




#66
1,1,1,2-Tetrachloroethane
Concen: 38.017 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:131 Resp: 57066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.6 | 47.3 | 141.9 |
| 119 | 63.3 | 31.6 | 95.0 |






#67
Ethyl Benzene
Concen: 38.543 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 91 Resp: 29571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.3 | 23.4 | 35.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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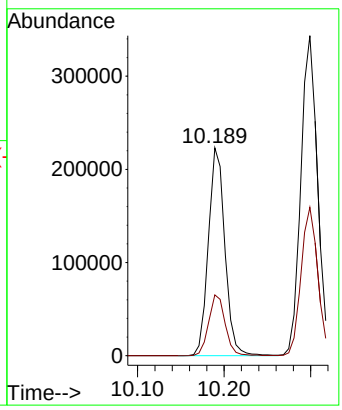
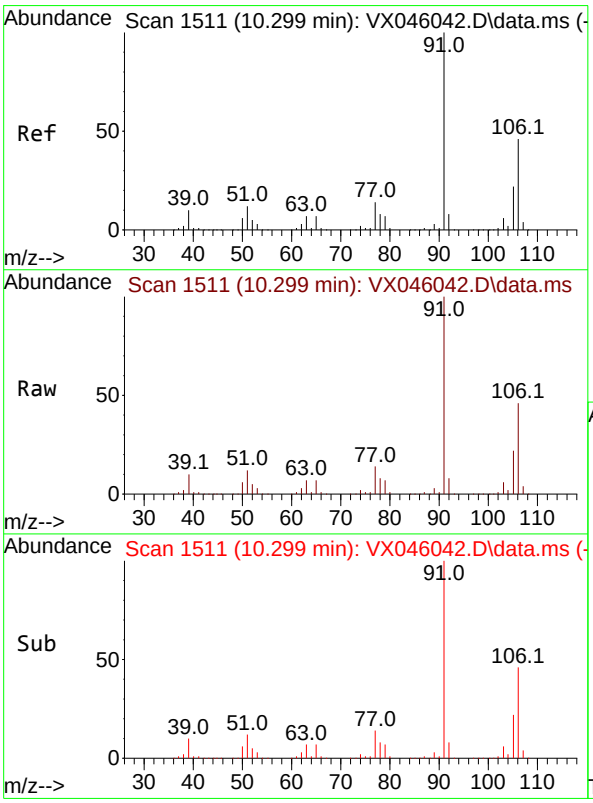
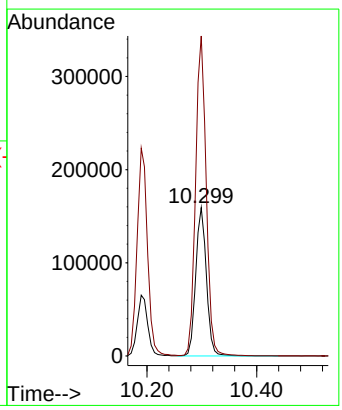


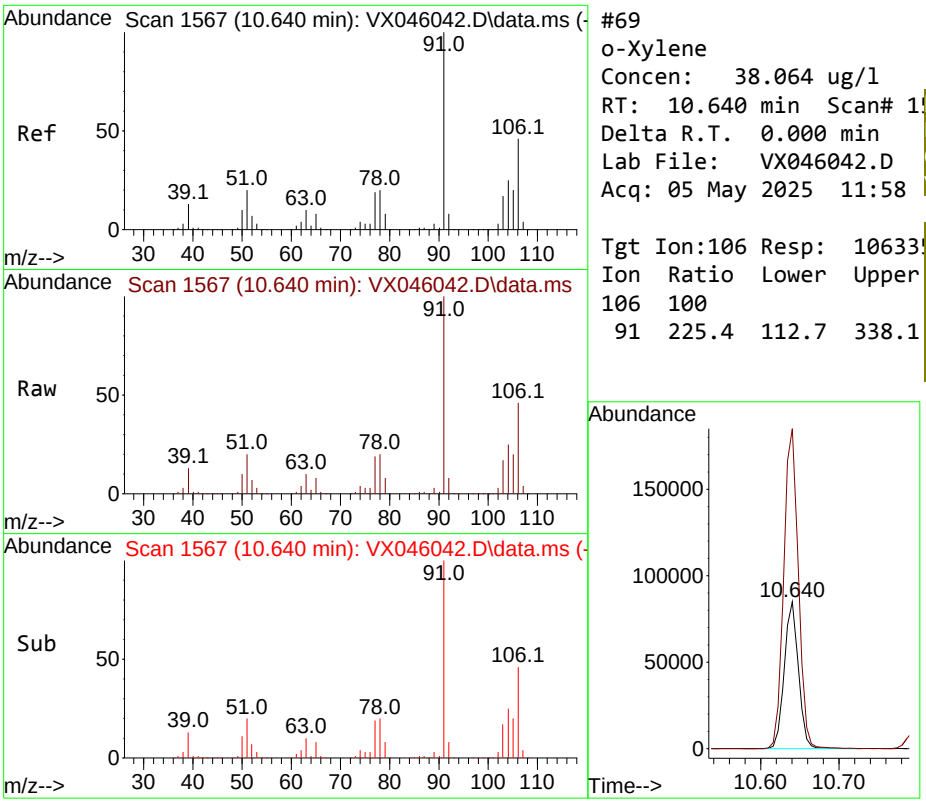




#68
m/p-Xylenes
Concen: 78.142 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:106 Resp: 216578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 214.0 | 171.2 | 256.8 |






#69
o-Xylene
Concen: 38.064 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:106 Resp: 10633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 225.4 | 112.7 | 338.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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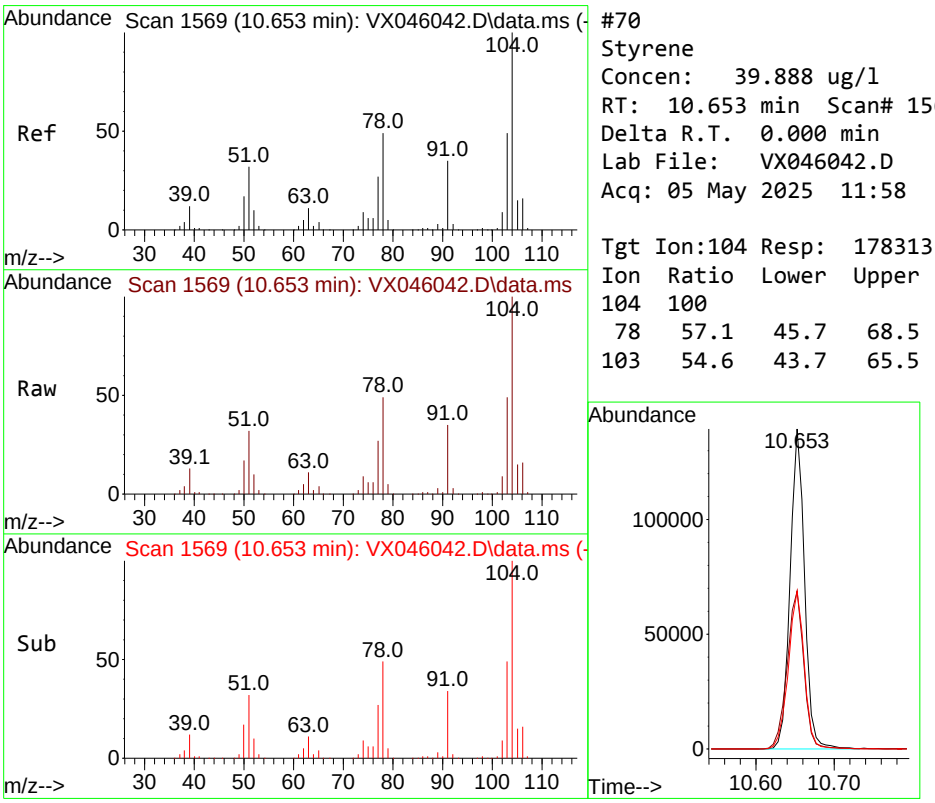
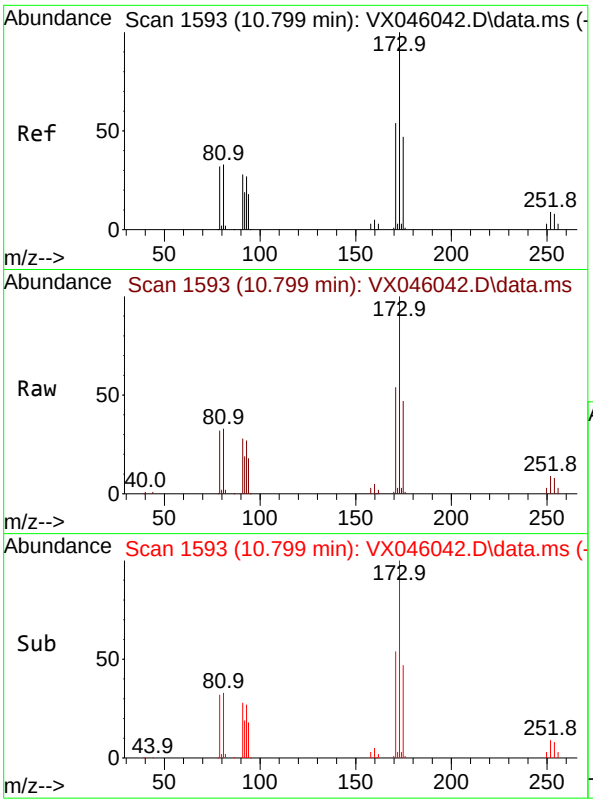



#70
Styrene
Concen: 39.888 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:104 Resp: 178313

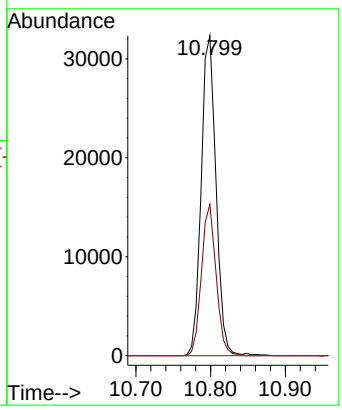
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 57.1 | 45.7 | 68.5 |
| 103 | 54.6 | 43.7 | 65.5 |




#71
Bromoform
Concen: 39.457 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:173 Resp: 4448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.7 | 23.4 | 70.0 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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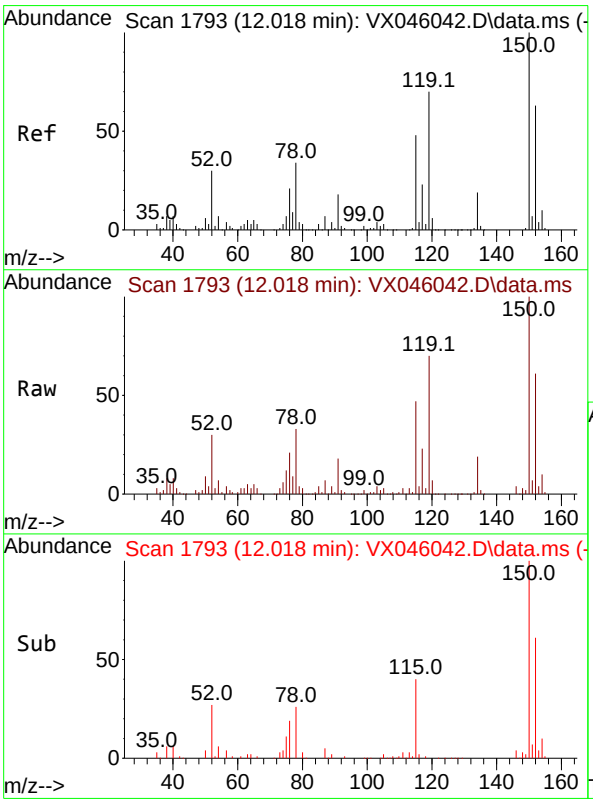
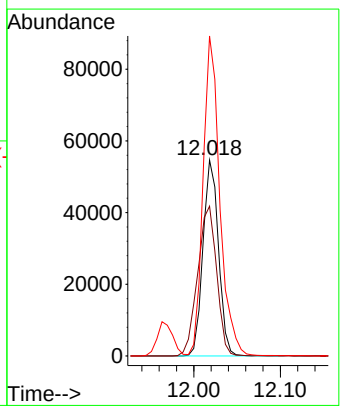
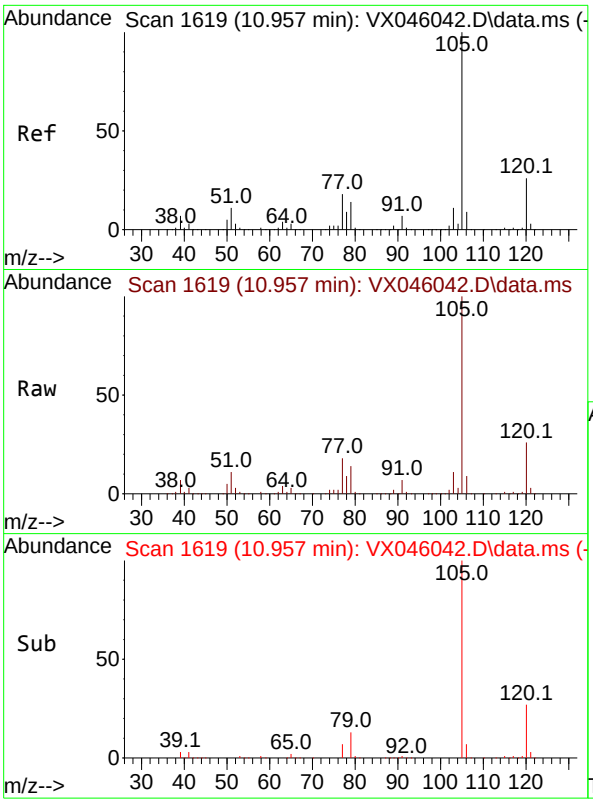



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:152 Resp: 67976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 93.8 | 46.9 | 140.7 |
| 150 | 175.5 | 0.0 | 351.0 |






#73
Isopropylbenzene
Concen: 37.865 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:105 Resp: 28071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.6 | 12.8 | 38.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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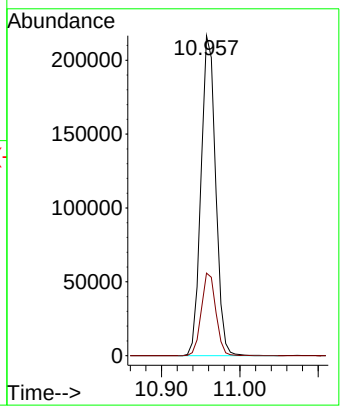
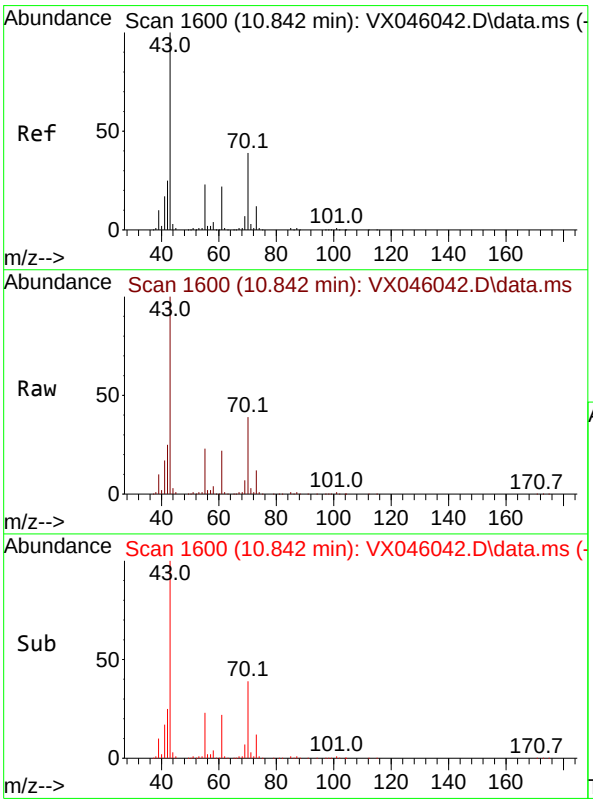
Supervised By :Mahesh Dadoda 05/06/2025

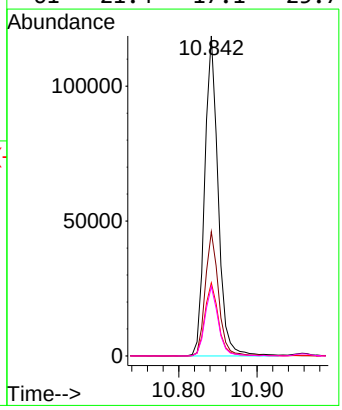


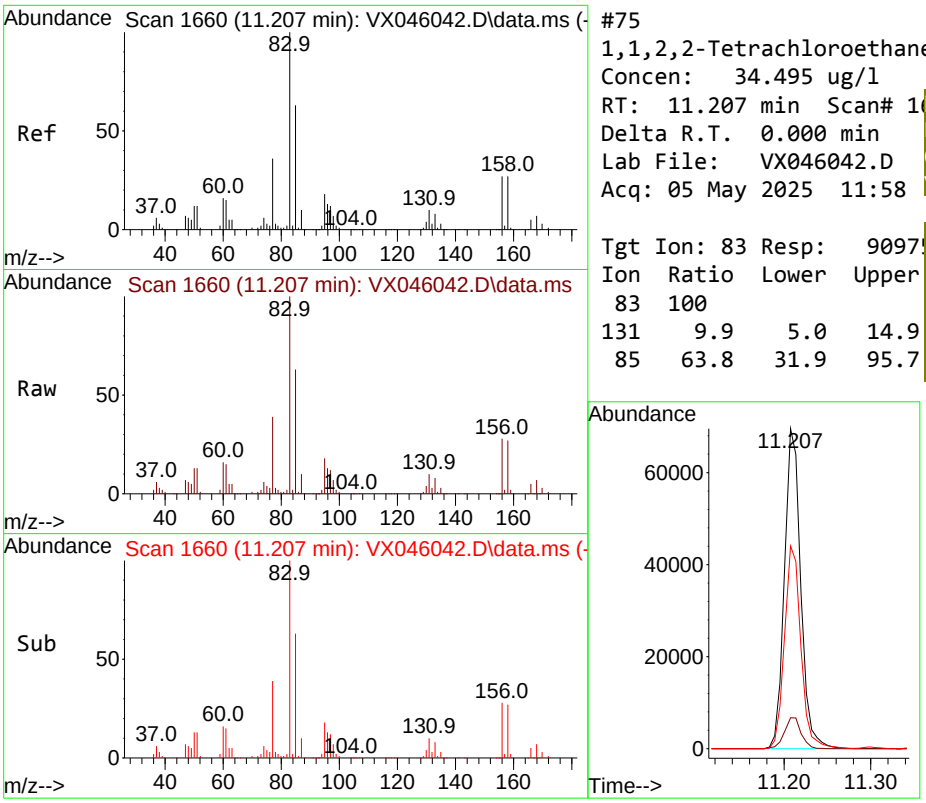




#74
N-amyl acetate
Concen: 38.012 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 140509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 38.6 | 30.9 | 46.3 |
| 55 | 23.4 | 18.7 | 28.1 |
| 61 | 21.4 | 17.1 | 25.7 |






#75
1,1,2,2-Tetrachloroethane
Concen: 34.495 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 83 Resp: 9097

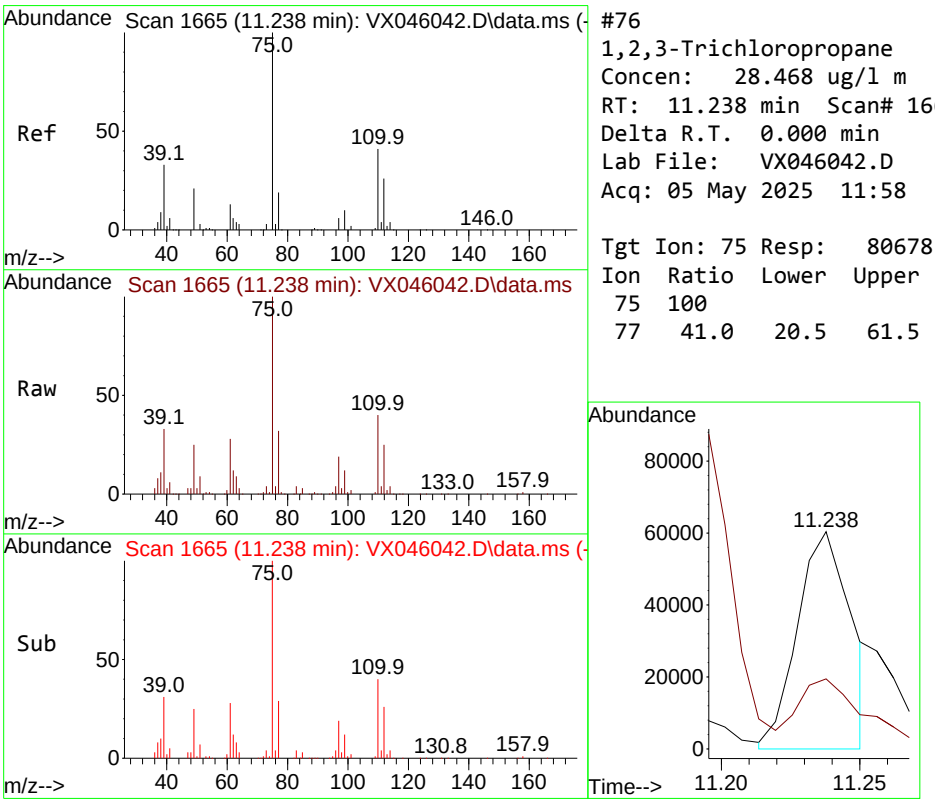
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 5.0 | 14.9 |
| 85 | 63.8 | 31.9 | 95.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

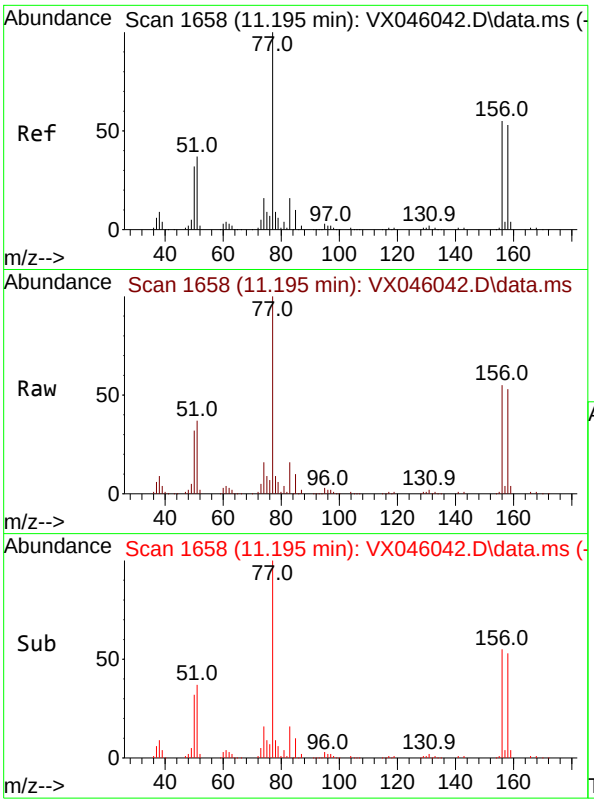
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025




#76
1,2,3-Trichloropropane
Concen: 28.468 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 80678

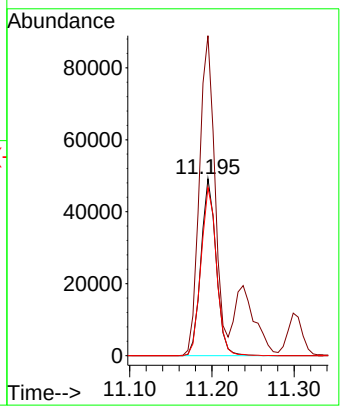
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 41.0 | 20.5 | 61.5 |




#77
Bromobenzene
Concen: 36.763 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:156 Resp: 6305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 185.5 | 92.8 | 278.3 |
| 158 | 97.5 | 48.8 | 146.3 |




**Instrument :**
MSVOA_X
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VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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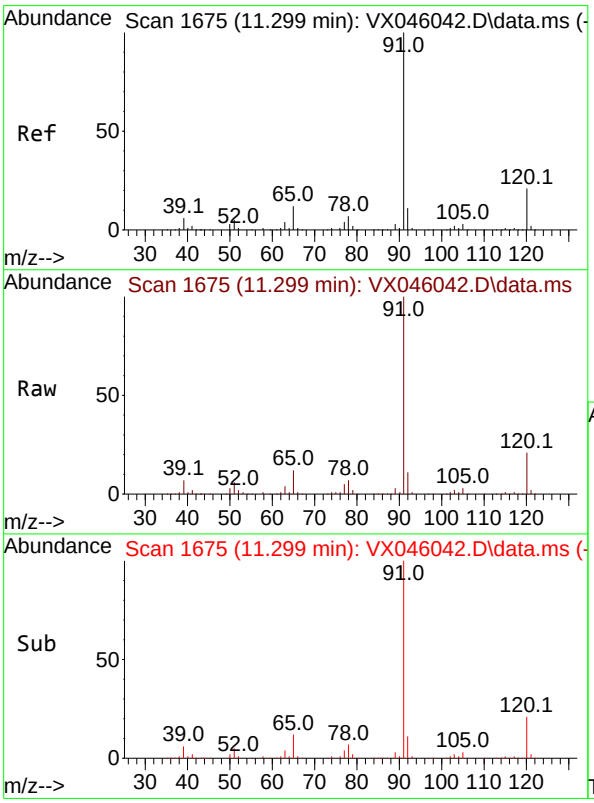
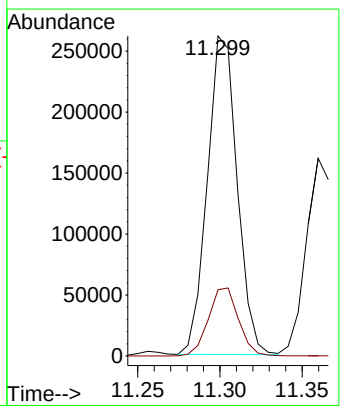
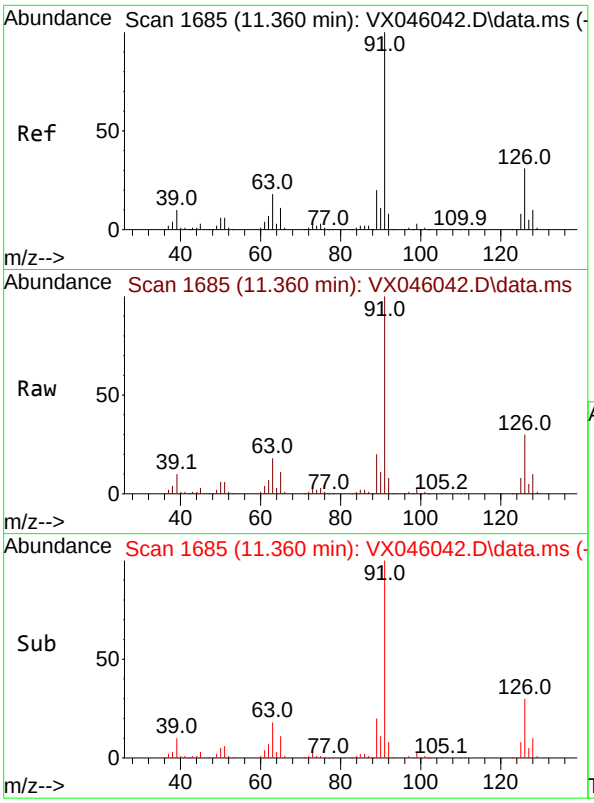



#78
n-propylbenzene
Concen: 39.707 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 91 Resp: 329981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.6 | 10.8 | 32.4 |






#79
2-Chlorotoluene
Concen: 36.336 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 91 Resp: 20350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.1 | 15.6 | 46.7 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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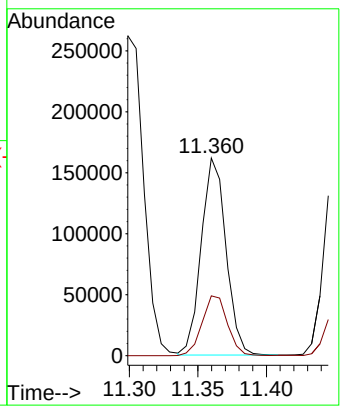
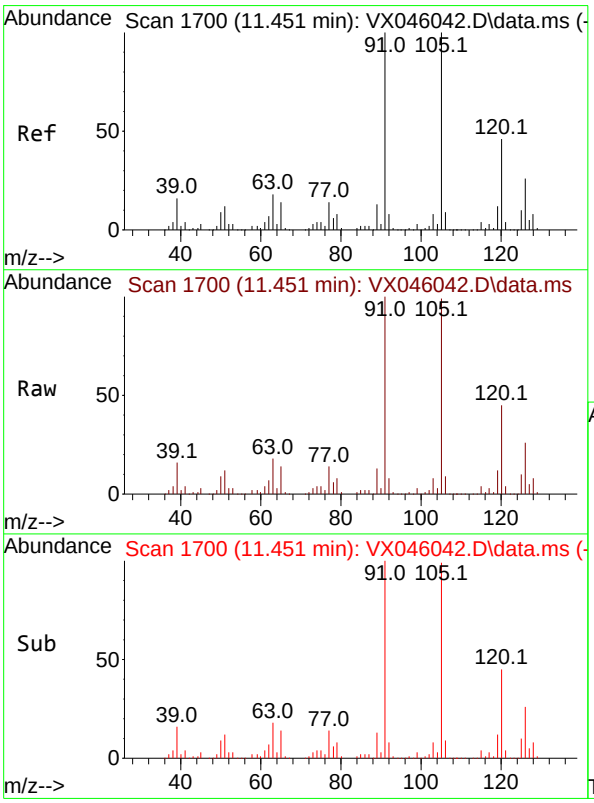
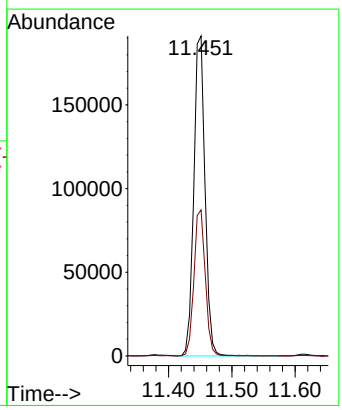


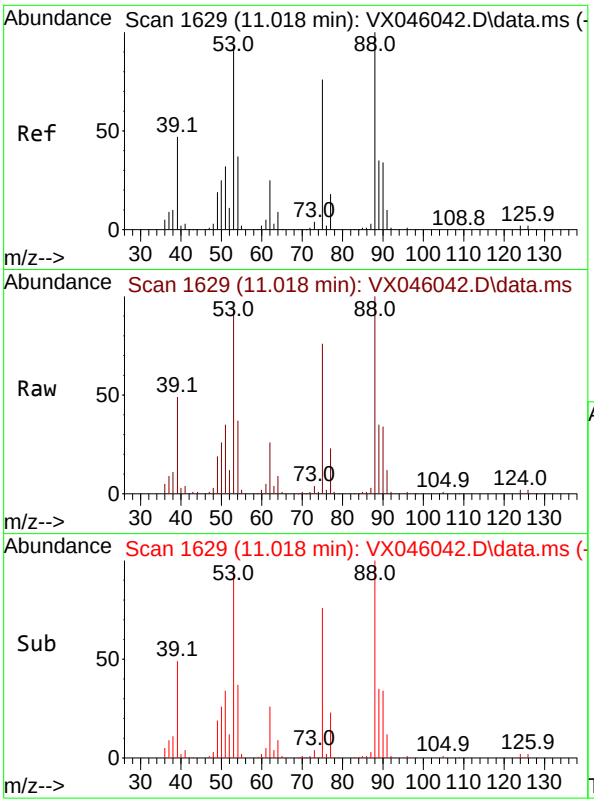




#80
1,3,5-Trimethylbenzene
Concen: 38.516 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:105 Resp: 237066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.1 | 23.1 | 69.2 |






#81
trans-1,4-Dichloro-2-butene
Concen: 38.445 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 2617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 125.6 | 100.5 | 150.7 |
| 89 | 46.3 | 37.0 | 55.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

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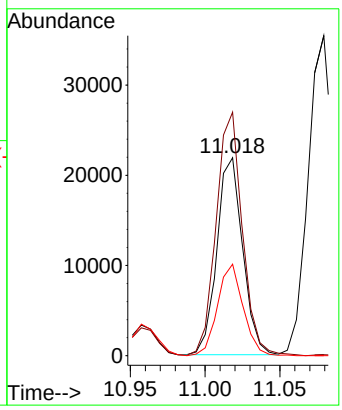
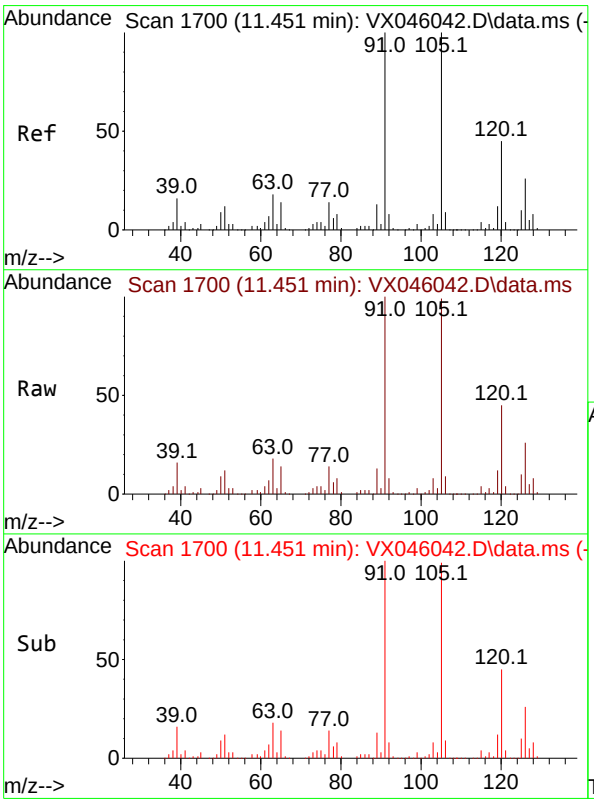
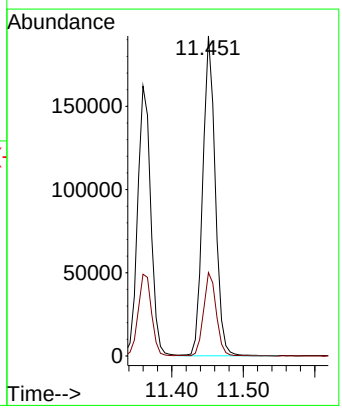


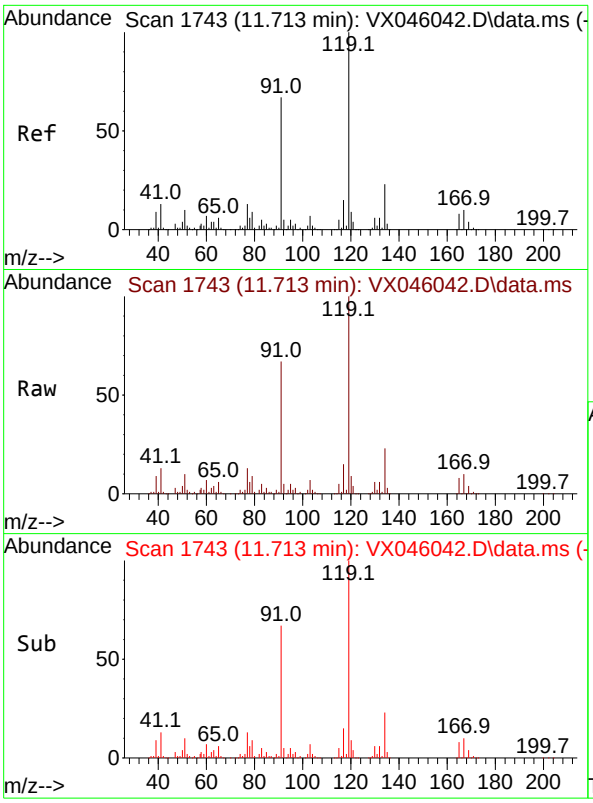




#82
4-Chlorotoluene
Concen: 37.880 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 91 Resp: 233172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 26.5 | 13.3 | 39.8 |

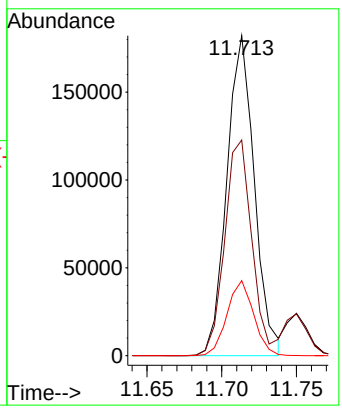





#83
tert-Butylbenzene
Concen: 38.622 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:119 Resp: 23346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.8 | 32.9 | 98.7 |
| 134 | 22.7 | 11.4 | 34.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

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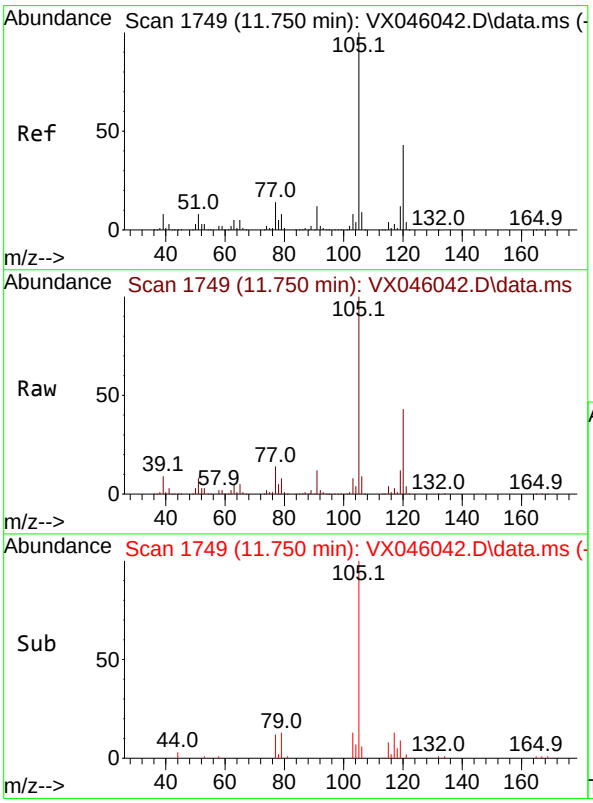
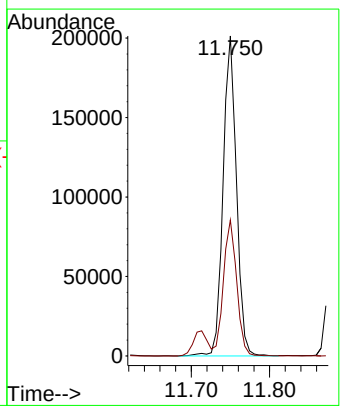
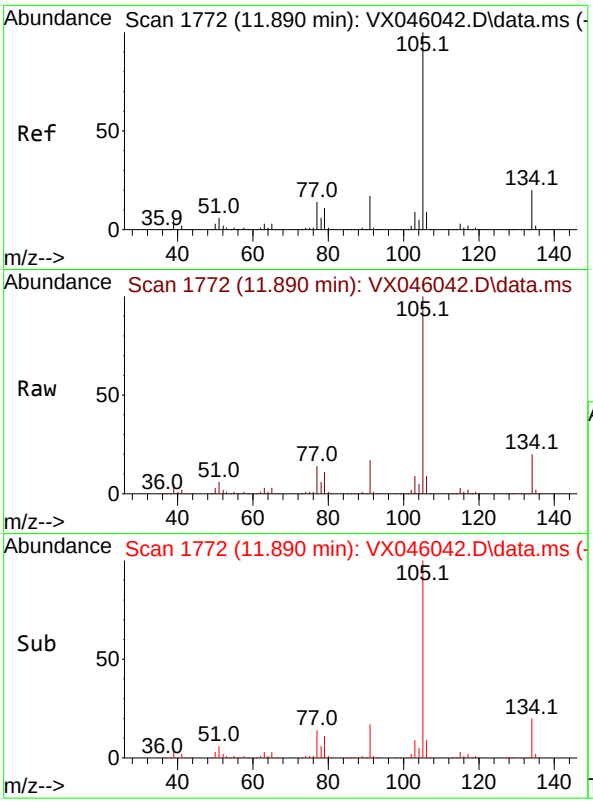



#84
1,2,4-Trimethylbenzene
Concen: 38.946 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:105 Resp: 239433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.4 | 21.2 | 63.6 |

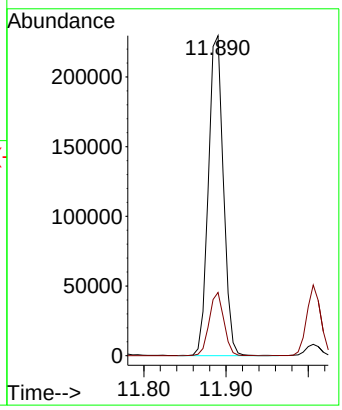





#85
sec-Butylbenzene
Concen: 38.786 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:105 Resp: 29107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.4 | 9.7 | 29.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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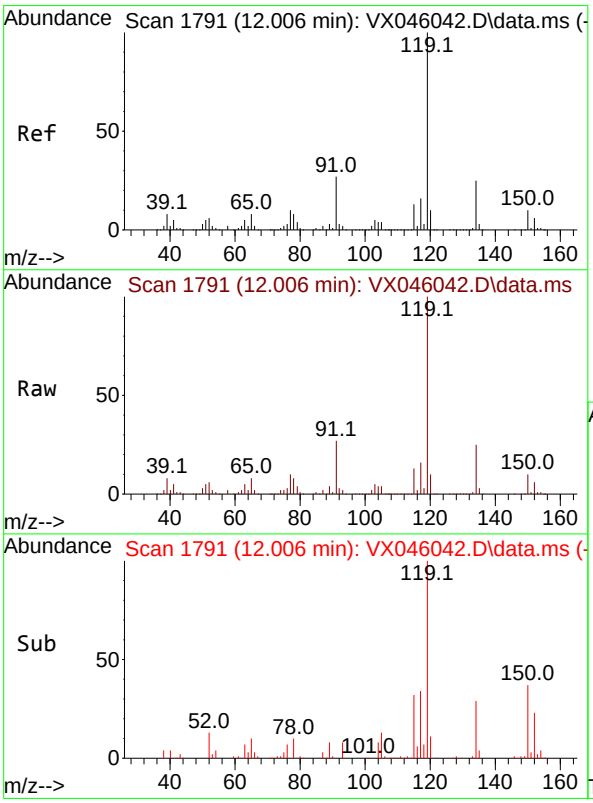
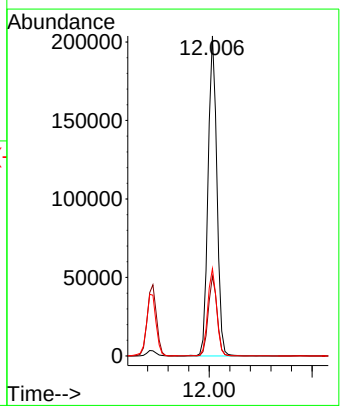
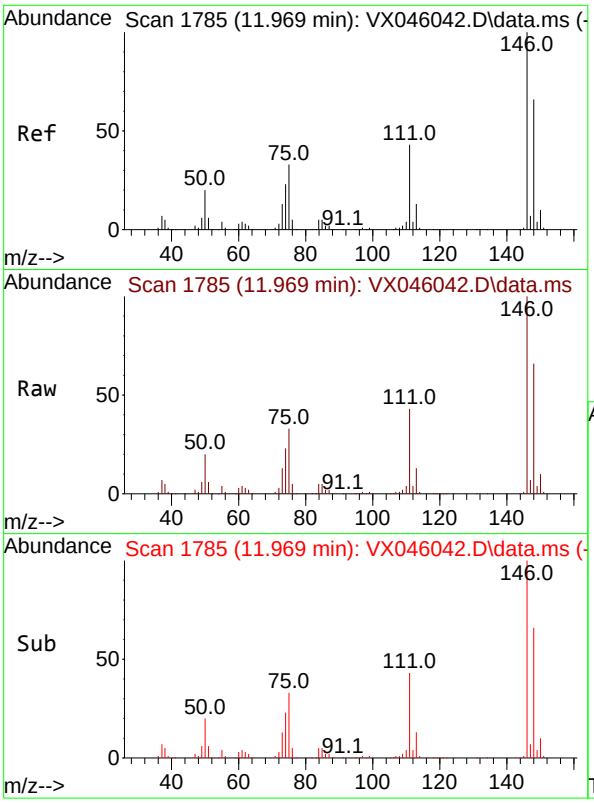



#86
p-Isopropyltoluene
Concen: 39.879 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:119 Resp: 241658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.0 | 12.5 | 37.5 |
| 91 | 27.6 | 13.8 | 41.4 |

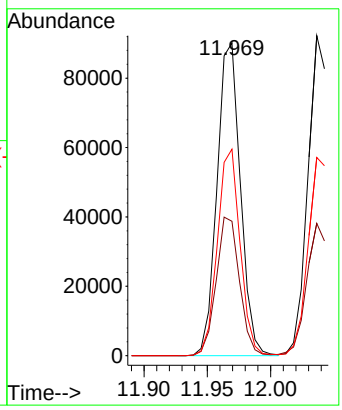





#87
1,3-Dichlorobenzene
Concen: 36.199 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:146 Resp: 11565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.2 | 22.1 | 66.3 |
| 148 | 64.3 | 32.1 | 96.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

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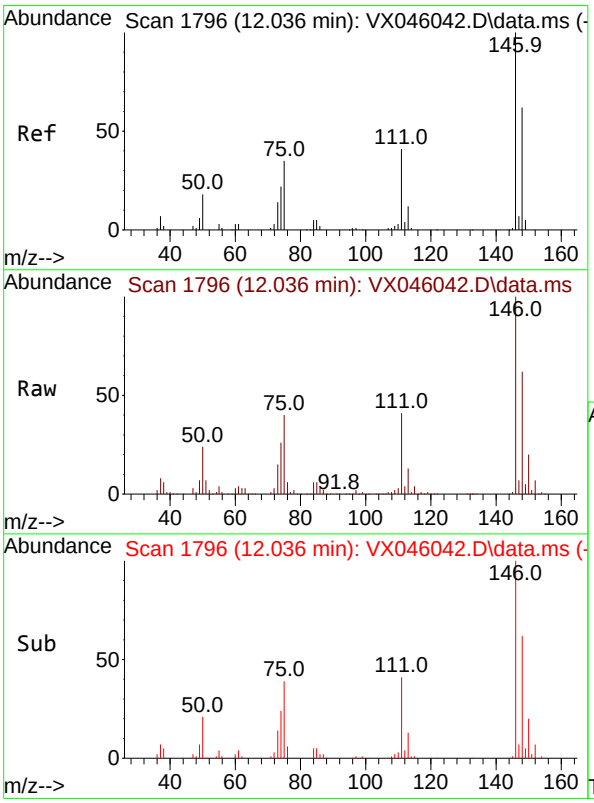
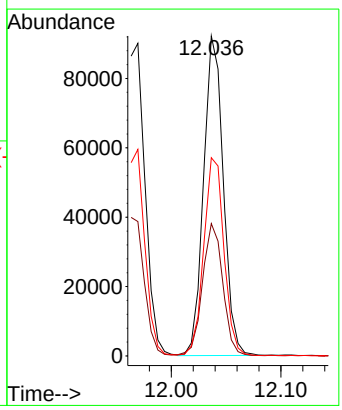
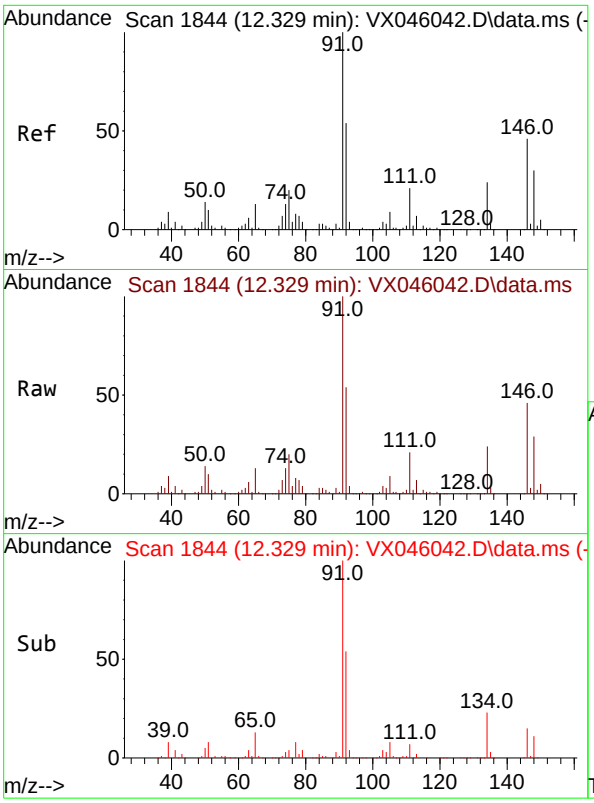



#88
1,4-Dichlorobenzene
Concen: 36.763 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:146 Resp: 115097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.6 | 21.3 | 63.9 |
| 148 | 63.7 | 31.9 | 95.5 |

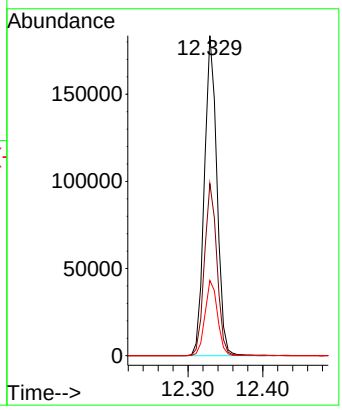





#89
n-Butylbenzene
Concen: 40.603 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 91 Resp: 213899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.8 | 26.9 | 80.7 |
| 134 | 23.5 | 11.8 | 35.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

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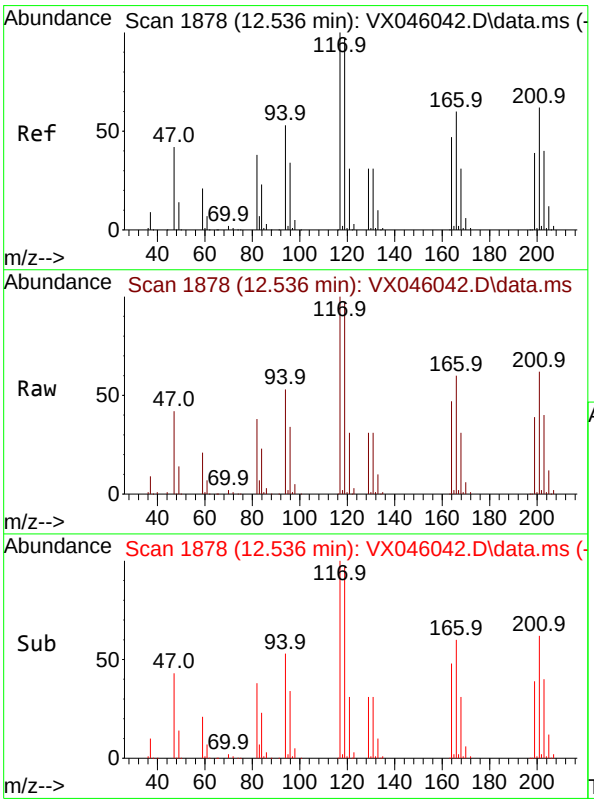
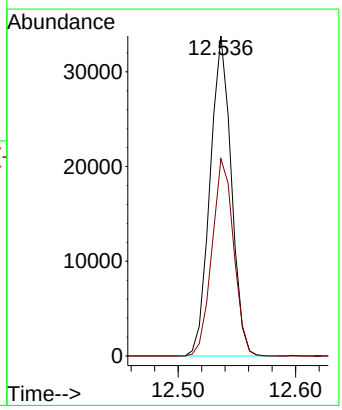
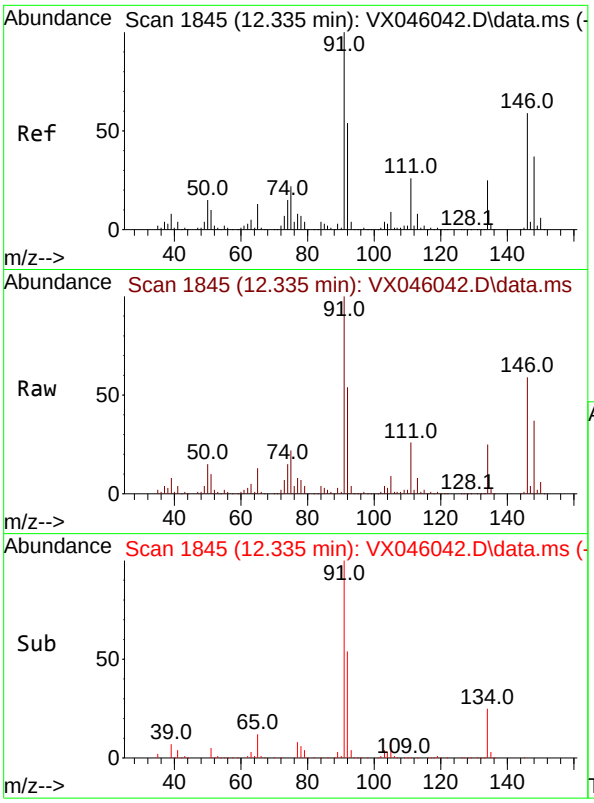



#90
Hexachloroethane
Concen: 37.534 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:117 Resp: 42314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.1 | 31.6 | 94.7 |

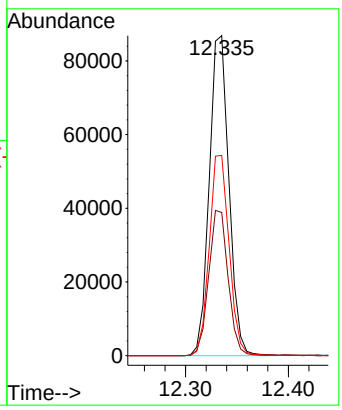





#91
1,2-Dichlorobenzene
Concen: 37.047 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:146 Resp: 11528

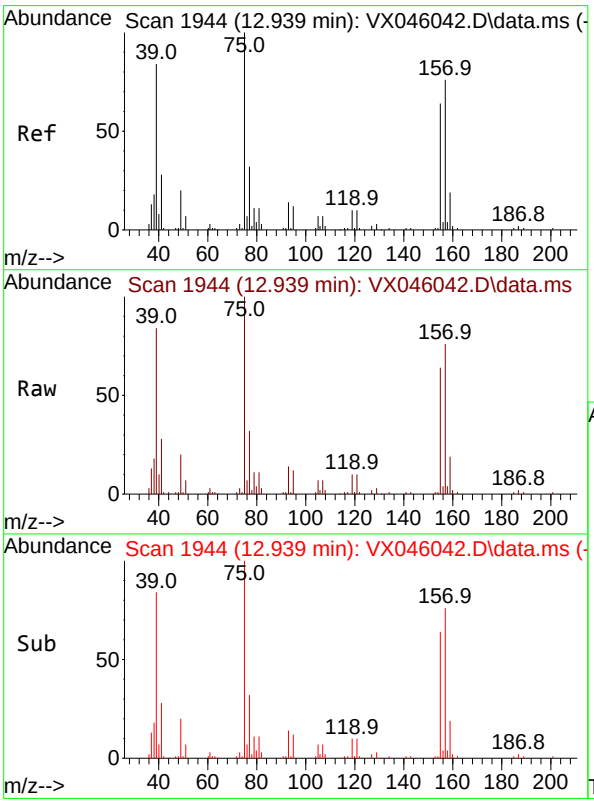
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.9 | 22.4 | 67.3 |
| 148 | 63.2 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

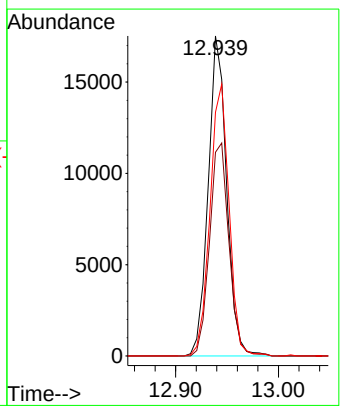
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

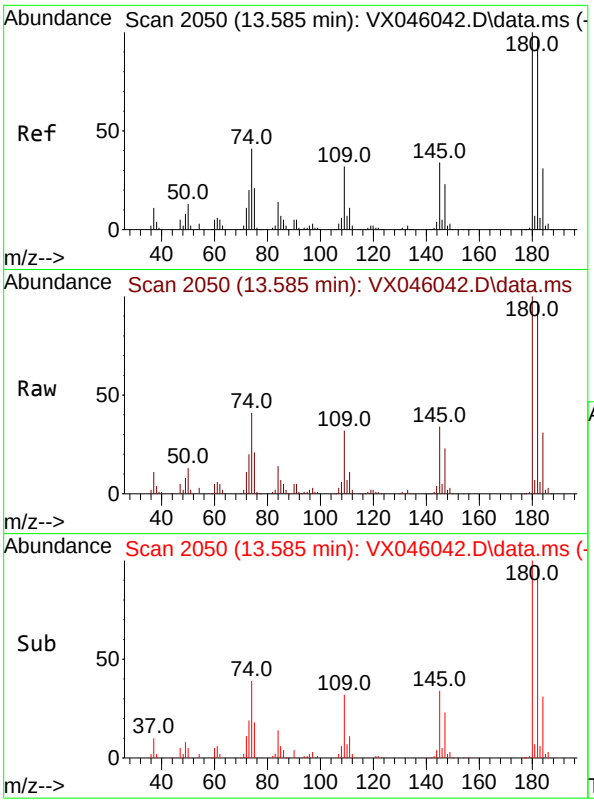



#92
1,2-Dibromo-3-Chloropropane
Concen: 36.496 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 21909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 69.9 | 34.9 | 104.8 |
| 157 | 87.6 | 43.8 | 131.4 |

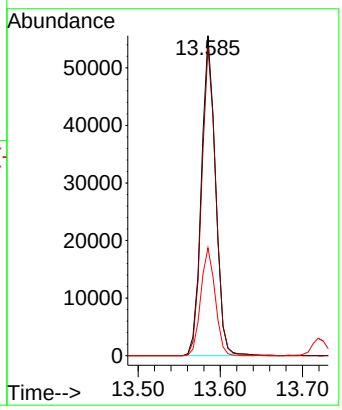





#93
1,2,4-Trichlorobenzene
Concen: 39.117 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:180 Resp: 6665

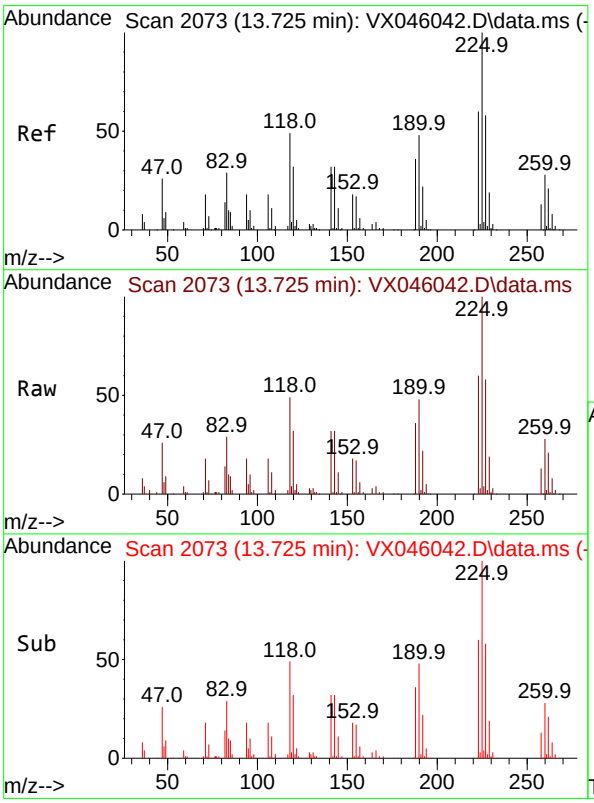
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.9 | 47.9 | 143.8 |
| 145 | 34.1 | 17.1 | 51.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

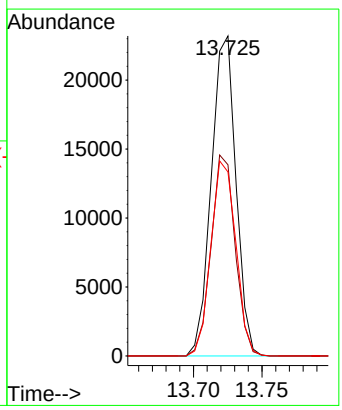
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

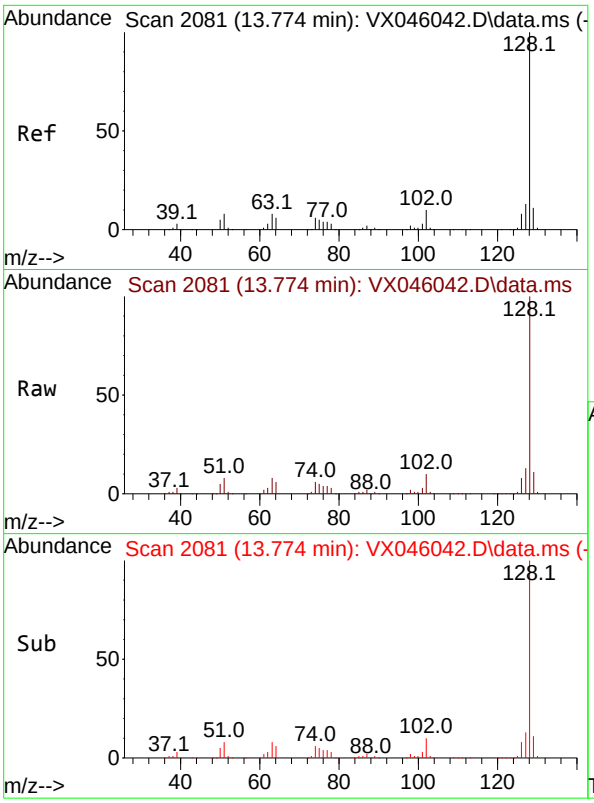



#94
Hexachlorobutadiene
Concen: 36.395 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:225 Resp: 29007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.6 | 30.8 | 92.4 |
| 227 | 61.8 | 30.9 | 92.7 |

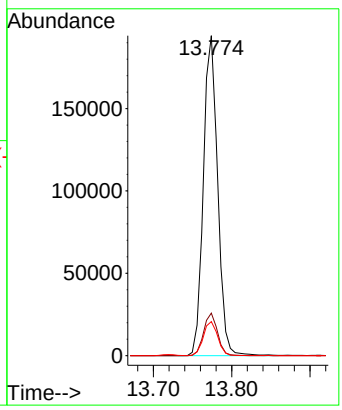





#95
Naphthalene
Concen: 39.575 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:128 Resp: 24556

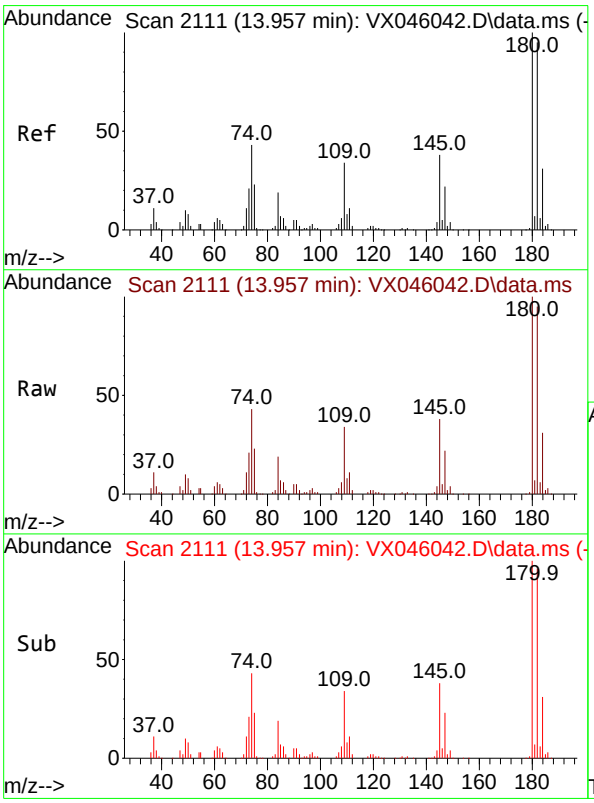
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.4 | 15.6 |
| 129 | 10.8 | 8.6 | 13.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

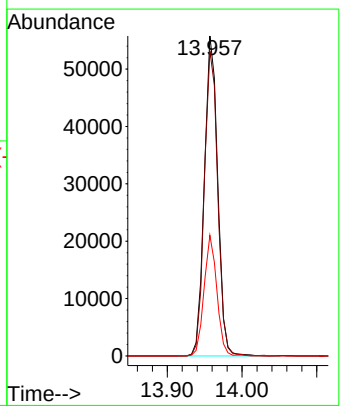
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025




#96
1,2,3-Trichlorobenzene
Concen: 38.765 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:180 Resp: 69262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 47.8 | 143.3 |
| 145 | 36.2 | 18.1 | 54.3 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
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 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.550 | 168 | 87028 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 152958 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 135214 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 66369 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 161877 | 62.526 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 125.060%# | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 111455 | 65.006 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 130.020%# | | | |
| 50) Toluene-d8 | 8.647 | 98 | 387230 | 67.031 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 134.060%# | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 153085 | 72.818 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 145.640%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 149508 | 77.828 | ug/l | 99 |
| 3) Chloromethane | 1.307 | 50 | 136937 | 72.392 | ug/l | 98 |
| 4) Vinyl Chloride | 1.374 | 62 | 126609 | 76.398 | ug/l | 98 |
| 5) Bromomethane | 1.593 | 94 | 59246 | 70.507 | ug/l | 99 |
| 6) Chloroethane | 1.660 | 64 | 57332 | 67.148 | ug/l | 99 |
| 7) Trichlorofluoromethane | 1.867 | 101 | 171042 | 67.754 | ug/l | 99 |
| 8) Diethyl Ether | 2.136 | 74 | 58762 | 70.807 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 109520 | 72.604 | ug/l | 99 |
| 10) Methyl Iodide | 2.440 | 142 | 138045 | 77.943 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.995 | 59 | 125094 | 405.394 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.306 | 96 | 105566 | 71.884 | ug/l | 96 |
| 13) Acrolein | 2.239 | 56 | 134456 | 375.132 | ug/l | 99 |
| 14) Allyl chloride | 2.660 | 41 | 206519 | 74.419 | ug/l | 98 |
| 15) Acrylonitrile | 3.068 | 53 | 331142 | 358.723 | ug/l | 97 |
| 16) Acetone | 2.386 | 43 | 314383 | 354.936 | ug/l | 98 |
| 17) Carbon Disulfide | 2.501 | 76 | 264956 | 77.867 | ug/l | 100 |
| 18) Methyl Acetate | 2.703 | 43 | 147014 | 69.531 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 3.117 | 73 | 378113 | 73.818 | ug/l | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 120270 | 67.030 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 106606 | 71.109 | ug/l | 99 |
| 22) Diisopropyl ether | 3.763 | 45 | 399494 | 77.048 | ug/l | 90 |
| 23) Vinyl Acetate | 3.721 | 43 | 1811550 | 395.363 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 219759 | 72.114 | ug/l | 99 |
| 25) 2-Butanone | 4.556 | 43 | 485448 | 379.704 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.464 | 77 | 174579 | 75.621 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 128454 | 71.056 | ug/l | 99 |
| 28) Bromochloromethane | 4.891 | 49 | 103602 | 63.932 | ug/l | 100 |
| 29) Tetrahydrofuran | 5.001 | 42 | 305757 | 368.234 | ug/l | 99 |
| 30) Chloroform | 5.086 | 83 | 222253 | 70.180 | ug/l | 95 |
| 31) Cyclohexane | 5.458 | 56 | 196302 | 76.428 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 201112 | 73.635 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 5.690 | 75 | 147873 | 74.285 | ug/l | 99 |
| 37) Ethyl Acetate | 4.714 | 43 | 186215 | 74.565 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.672 | 117 | 168946 | 73.875 | ug/l | 99 |
| 39) Methylcyclohexane | 7.372 | 83 | 191941 | 76.952 | ug/l | 96 |
| 40) Benzene | 6.031 | 78 | 440885 | 71.457 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 104863 | 75.574 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 187036 | 73.318 | ug/l | | 99 |
| 43) Isopropyl Acetate | 6.342 | 43 | 300491 | 78.714 | ug/l | | 100 |
| 44) Trichloroethene | 7.123 | 130 | 105628 | 72.420 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 112554 | 73.420 | ug/l | | 100 |
| 46) Dibromomethane | 7.574 | 93 | 85728 | 70.938 | ug/l | | 100 |
| 47) Bromodichloromethane | 7.818 | 83 | 175301 | 74.845 | ug/l | | 99 |
| 48) Methyl methacrylate | 7.689 | 41 | 153093 | 78.101 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.659 | 88 | 57313 | 1470.687 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 8.573 | 43 | 963319 | 384.740 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 270763 | 74.010 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 169863 | 86.372 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 184134 | 80.264 | ug/l | | 95 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 107264 | 72.543 | ug/l | | 99 |
| 56) Ethyl methacrylate | 9.116 | 69 | 188717 | 82.359 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 187649 | 71.590 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 463169 | 449.791 | ug/l | | 100 |
| 59) 2-Hexanone | 9.433 | 43 | 729602 | 383.945 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.518 | 129 | 127012 | 78.918 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 9.610 | 107 | 112669 | 74.200 | ug/l | | 98 |
| 64) Tetrachloroethene | 9.268 | 164 | 93195 | 67.493 | ug/l | | 96 |
| 65) Chlorobenzene | 10.079 | 112 | 293284 | 70.490 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 103177 | 74.349 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 535122 | 75.444 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 389935 | 152.181 | ug/l | | 99 |
| 69) o-Xylene | 10.640 | 106 | 190833 | 73.890 | ug/l | | 97 |
| 70) Styrene | 10.652 | 104 | 328195 | 79.411 | ug/l | | 100 |
| 71) Bromoform | 10.799 | 173 | 84353 | 80.927 | ug/l | # | 98 |
| 73) Isopropylbenzene | 10.957 | 105 | 514528 | 71.083 | ug/l | | 100 |
| 74) N-amyl acetate | 10.841 | 43 | 274553 | 76.073 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 170481 | 66.207 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 150182m | 54.277 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 117151 | 69.959 | ug/l | | 99 |
| 78) n-propylbenzene | 11.305 | 91 | 608332 | 74.974 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 372392 | 68.100 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 432096 | 71.903 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 54398 | 81.820 | ug/l | | 93 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 432053 | 71.890 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 432011 | 73.197 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 442728 | 73.758 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 543597 | 74.188 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 457898 | 77.393 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 219753 | 70.449 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 217613 | 71.190 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 416602 | 80.996 | ug/l | | 100 |
| 90) Hexachloroethane | 12.536 | 117 | 82528 | 74.978 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 216834 | 71.367 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 43673 | 74.512 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 137430 | 82.605 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 55494 | 71.314 | ug/l | | 98 |
| 95) Naphthalene | 13.774 | 128 | 489778 | 80.842 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 139525 | 79.981 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
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 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 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

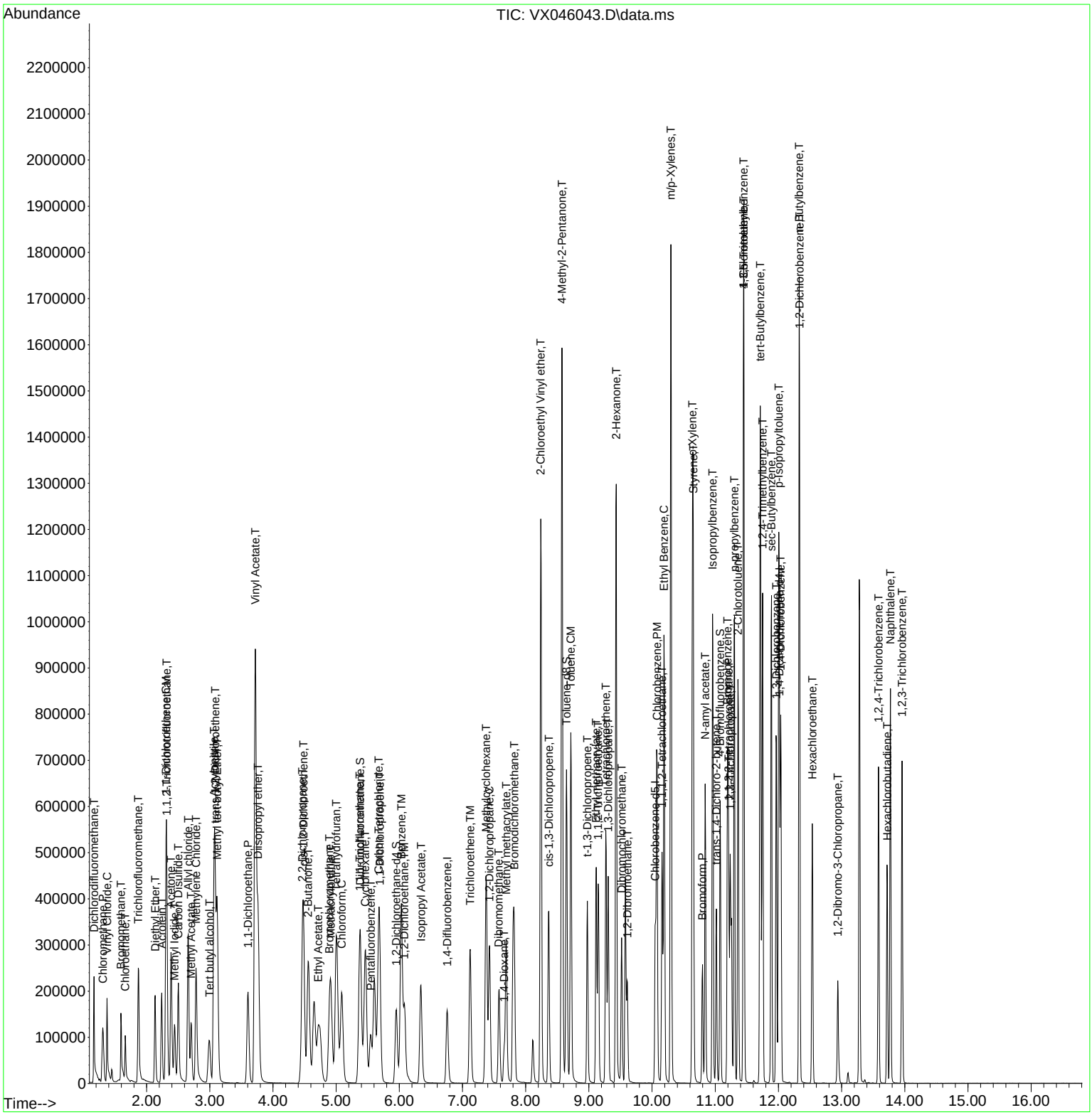
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

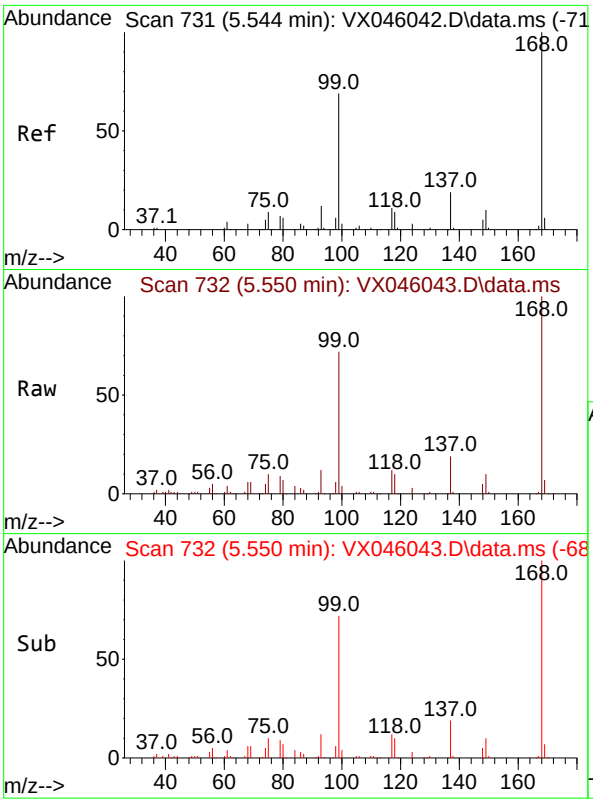
Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

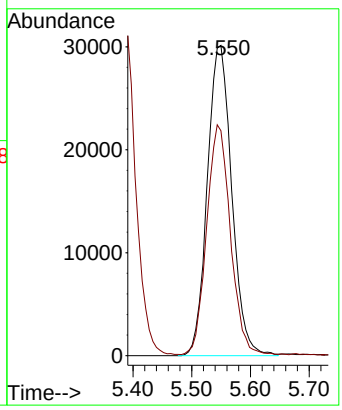





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:168 Resp: 8702

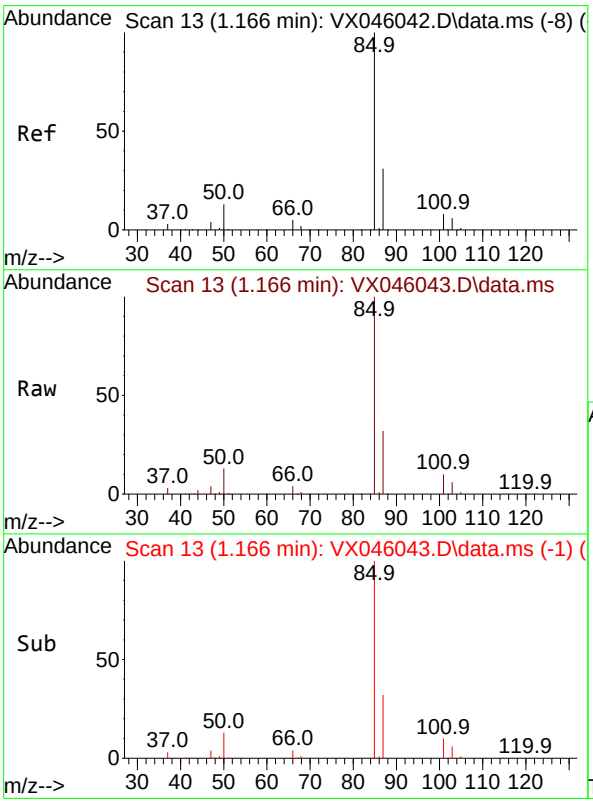
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 72.1 | 54.9 | 82.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

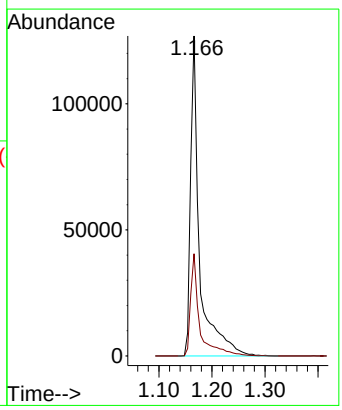
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

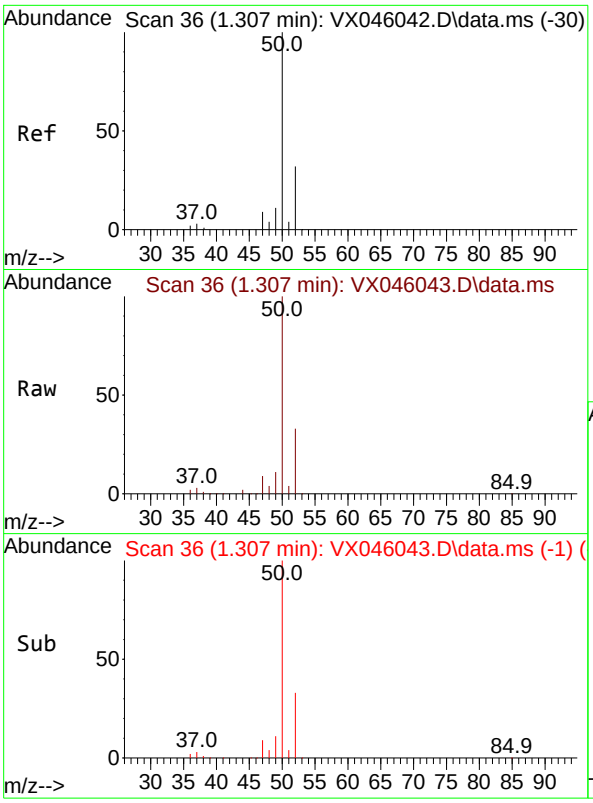



#2
Dichlorodifluoromethane
Concen: 77.828 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 85 Resp: 149508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.0 | 15.7 | 47.1 |

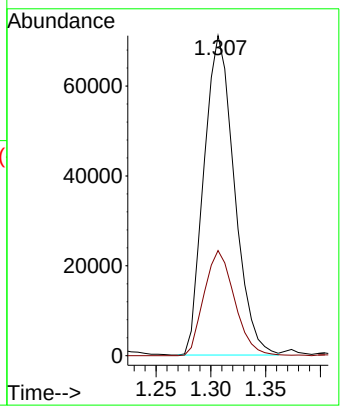





#3
Chloromethane
Concen: 72.392 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 50 Resp: 13693

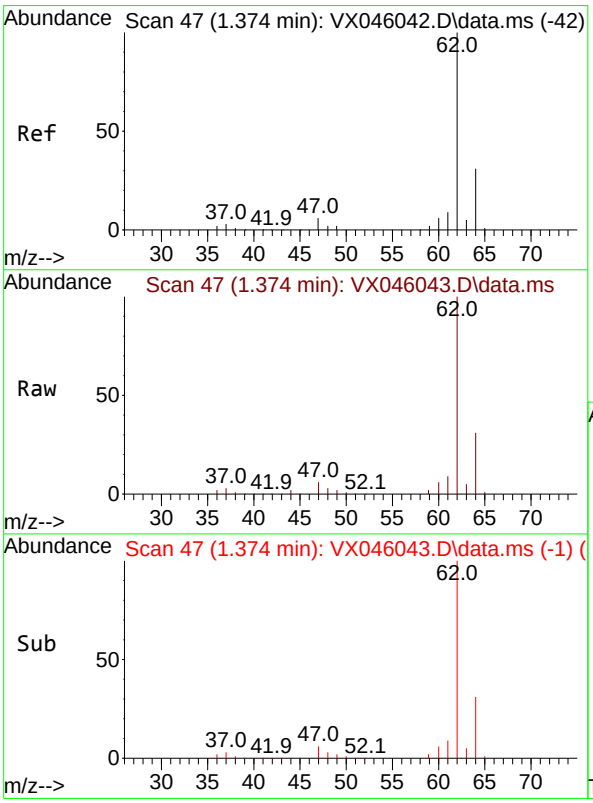
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

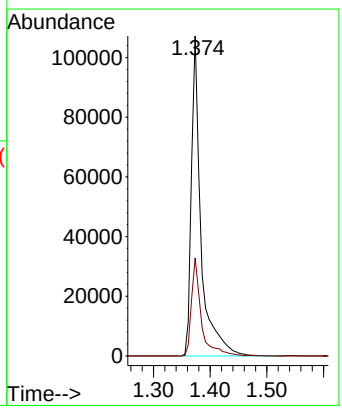
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

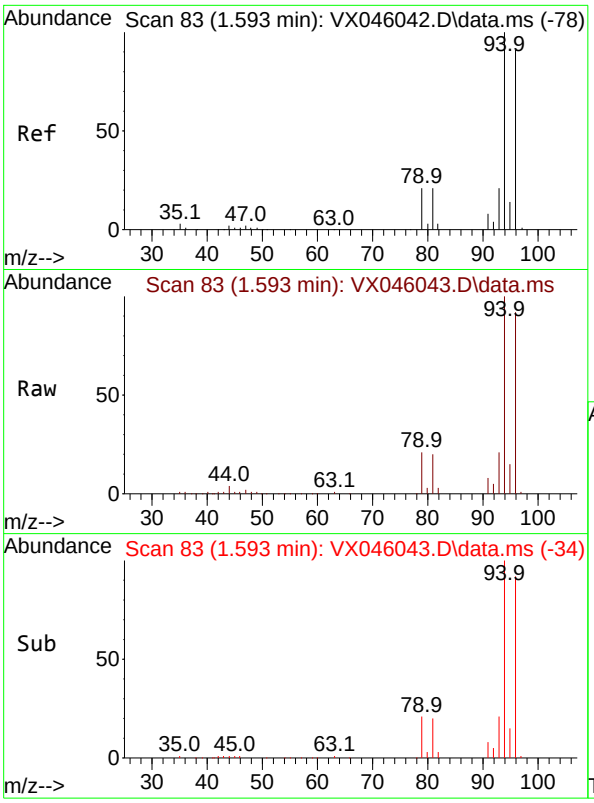



#4
Vinyl Chloride
Concen: 76.398 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 62 Resp: 126609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.6 | 25.2 | 37.8 |

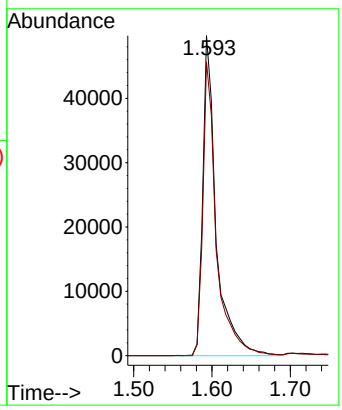





#5
Bromomethane
Concen: 70.507 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 94 Resp: 5924

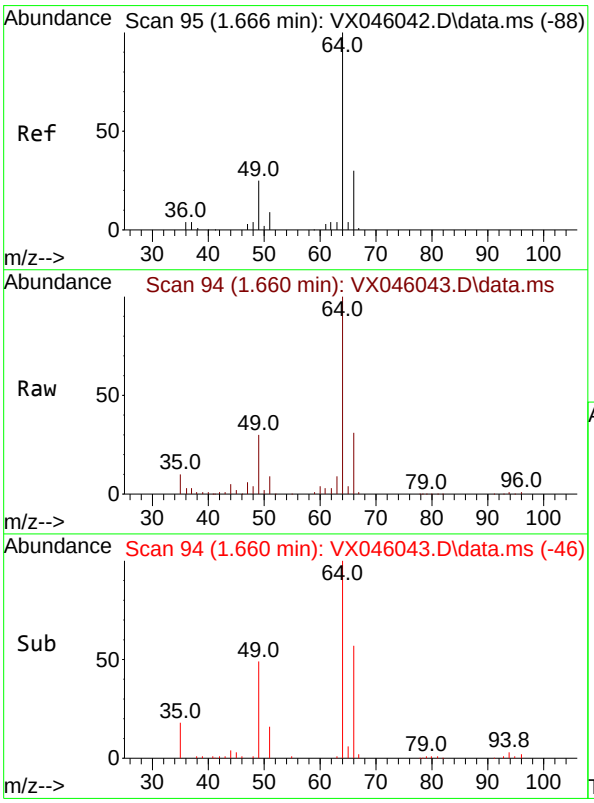
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.7 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

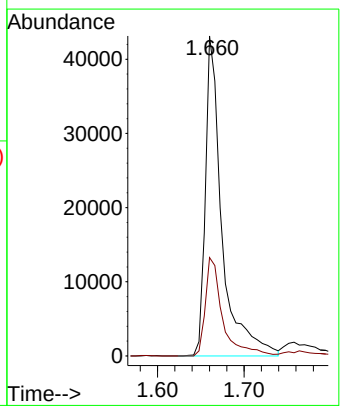
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

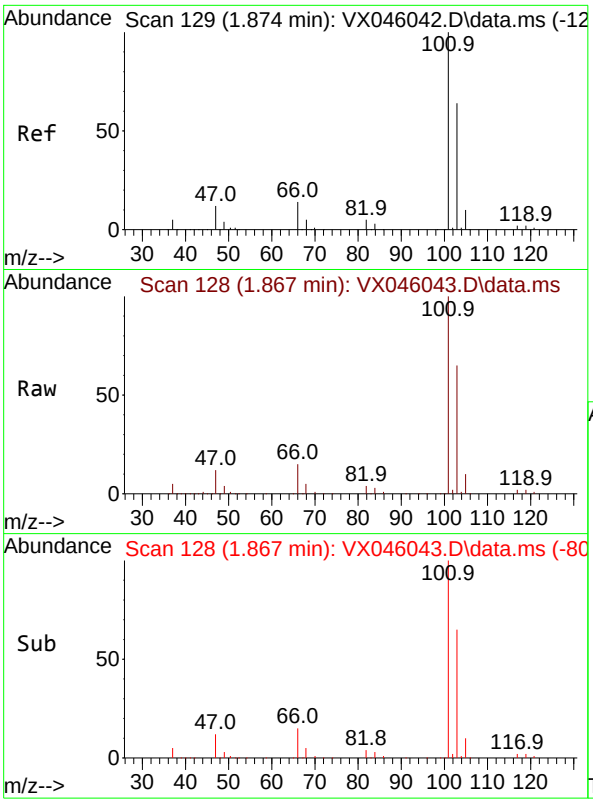



#6
Chloroethane
Concen: 67.148 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 64 Resp: 57332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.8 | 24.3 | 36.5 |

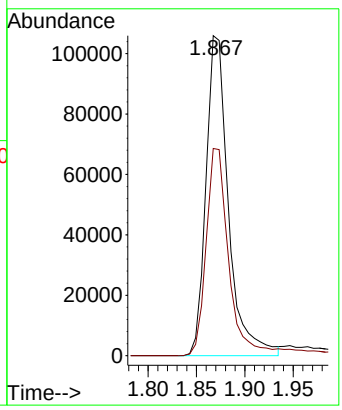





#7
Trichlorofluoromethane
Concen: 67.754 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:101 Resp: 17104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.8 | 51.0 | 76.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

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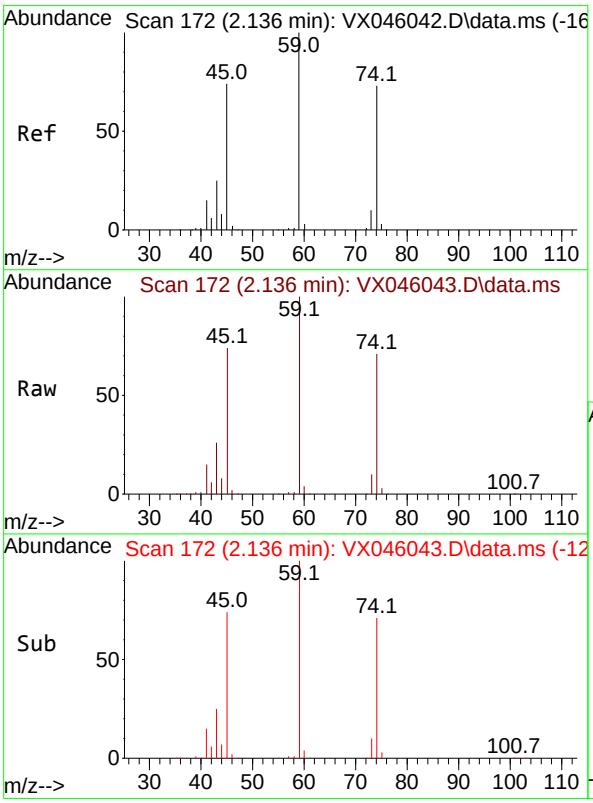
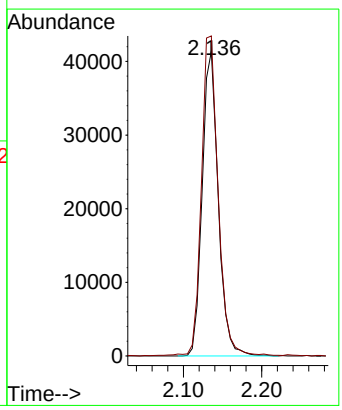
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

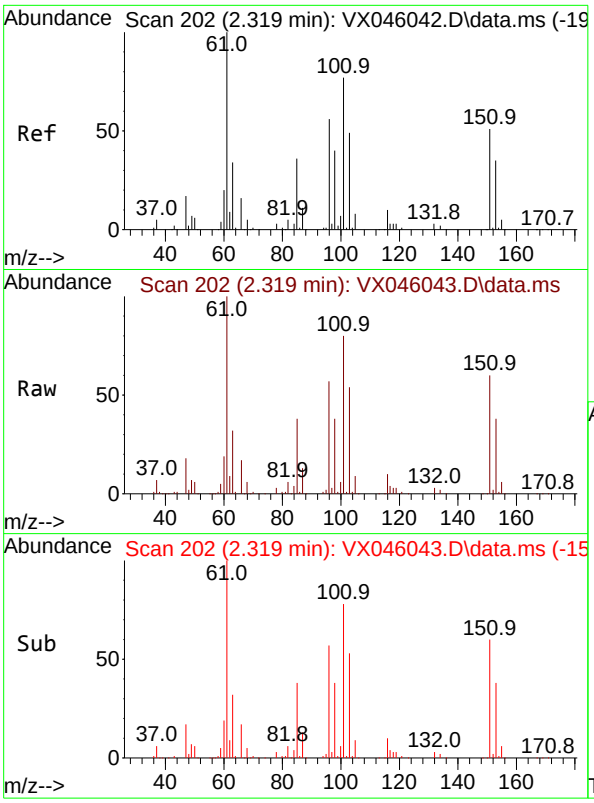



#8
Diethyl Ether
Concen: 70.807 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 74 Resp: 58762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 110.1 | 54.9 | 164.8 |

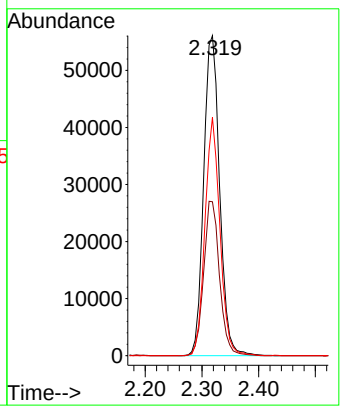





#9
1,1,2-Trichlorotrifluoroethane
Concen: 72.604 ug/l
RT: 2.319 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:101 Resp: 10952(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 48.1 | 38.6 | 58.0 |
| 151 | 69.9 | 55.2 | 82.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

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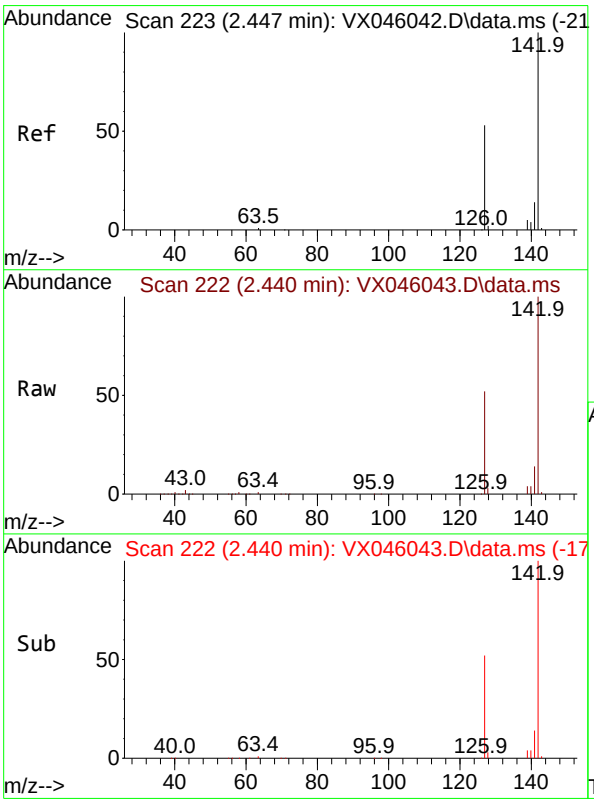
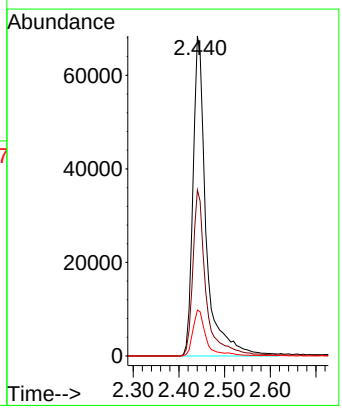
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

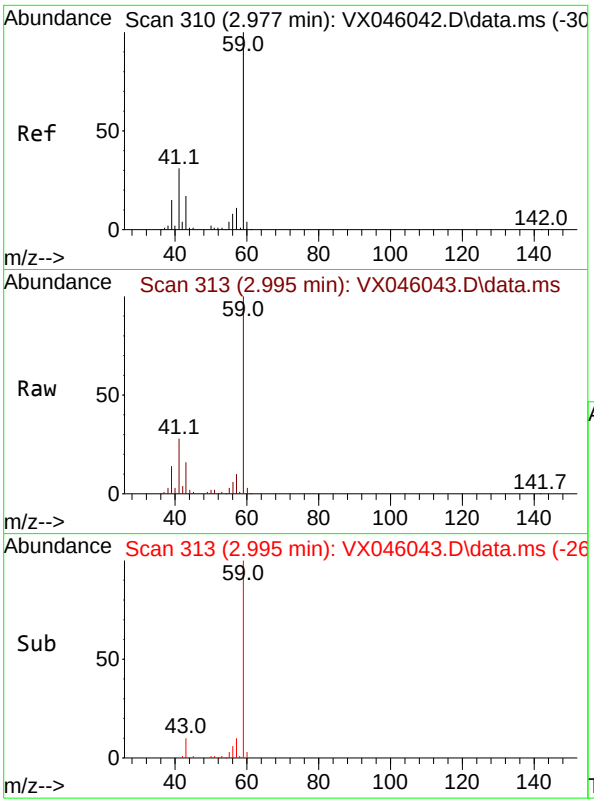



#10
Methyl Iodide
Concen: 77.943 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:142 Resp: 138045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 52.0 | 41.7 | 62.5 |
| 141 | 14.5 | 11.5 | 17.3 |

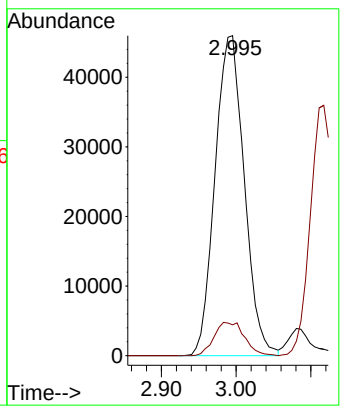





#11
Tert butyl alcohol
Concen: 405.394 ug/l
RT: 2.995 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 59 Resp: 12509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.9 | 8.6 | 12.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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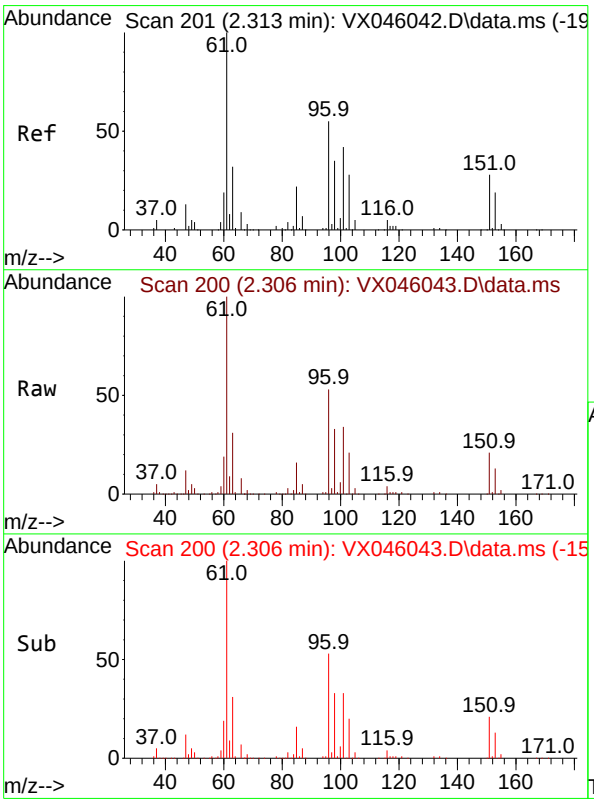
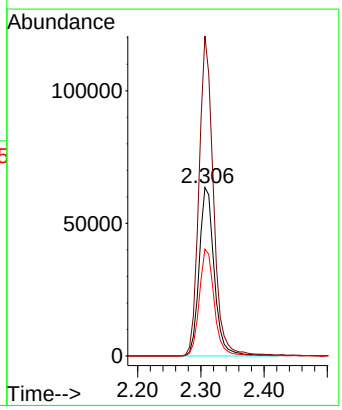
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

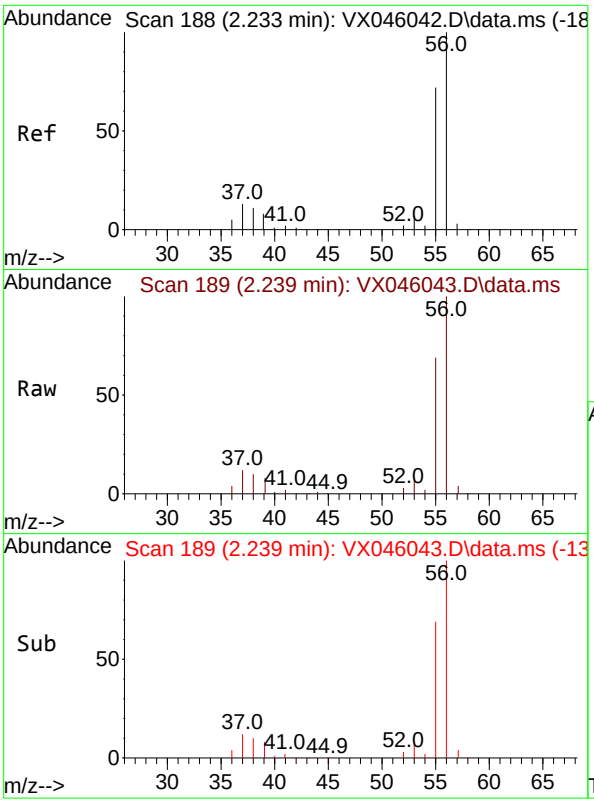



#12
1,1-Dichloroethene
Concen: 71.884 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 96 Resp: 105566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 189.9 | 146.2 | 219.2 |
| 98 | 63.3 | 51.0 | 76.6 |

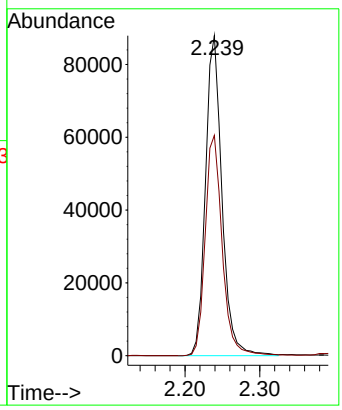





#13
Acrolein
Concen: 375.132 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 56 Resp: 13445

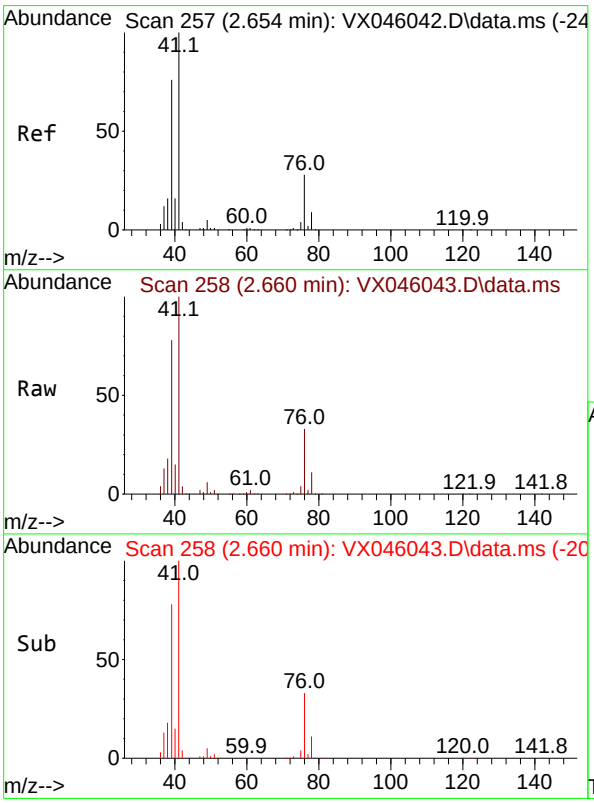
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.3 | 56.2 | 84.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

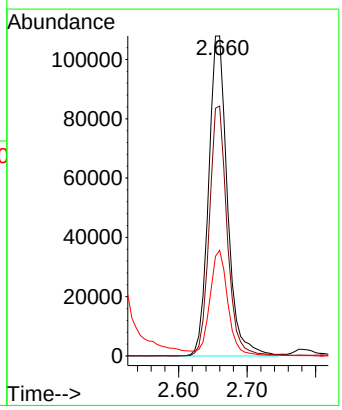
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

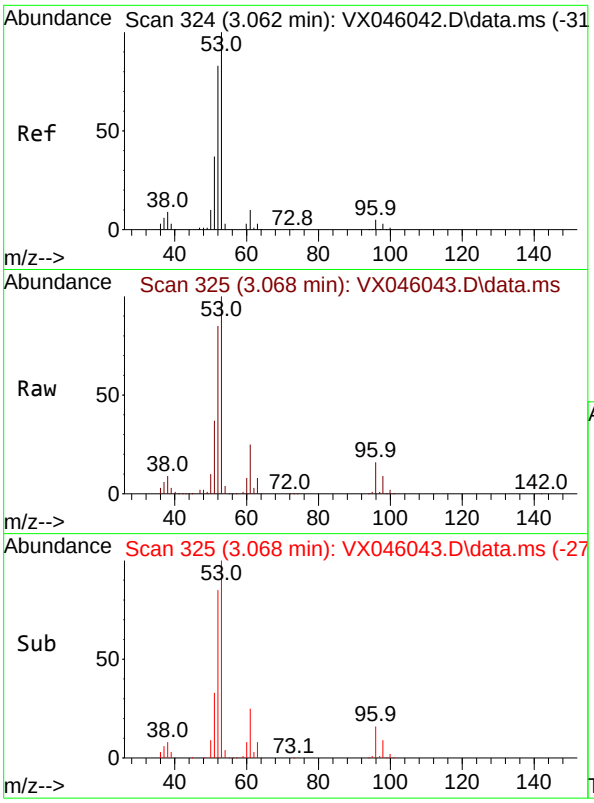



#14
Allyl chloride
Concen: 74.419 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 41 Resp: 206519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 73.8 | 60.6 | 90.8 |
| 76 | 31.4 | 24.9 | 37.3 |

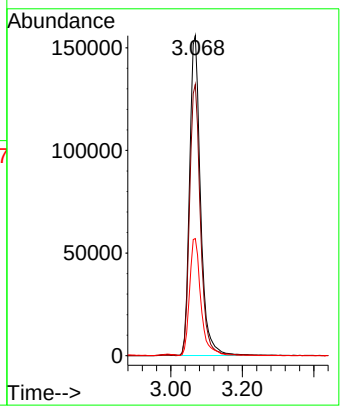





#15
Acrylonitrile
Concen: 358.723 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 53 Resp: 33114

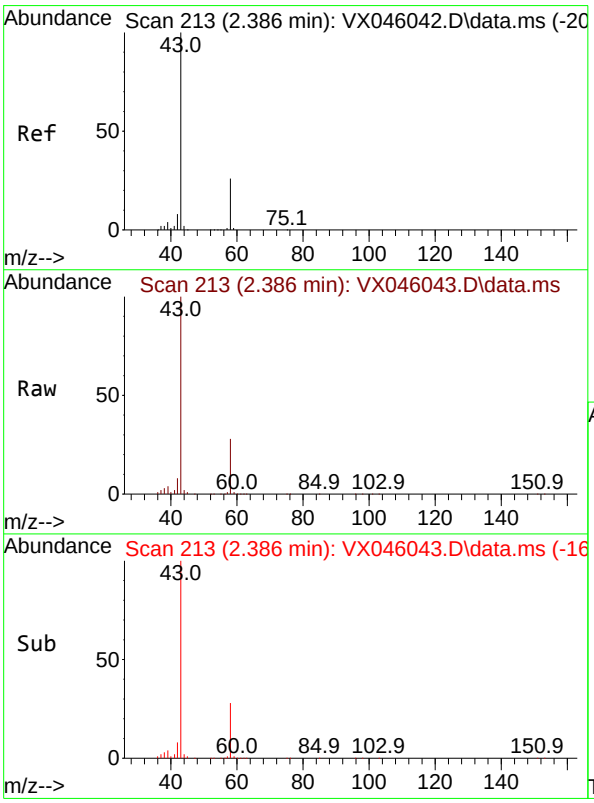
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 84.7 | 65.3 | 97.9 |
| 51 | 37.9 | 29.8 | 44.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

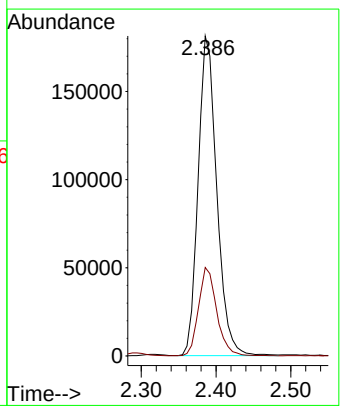
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

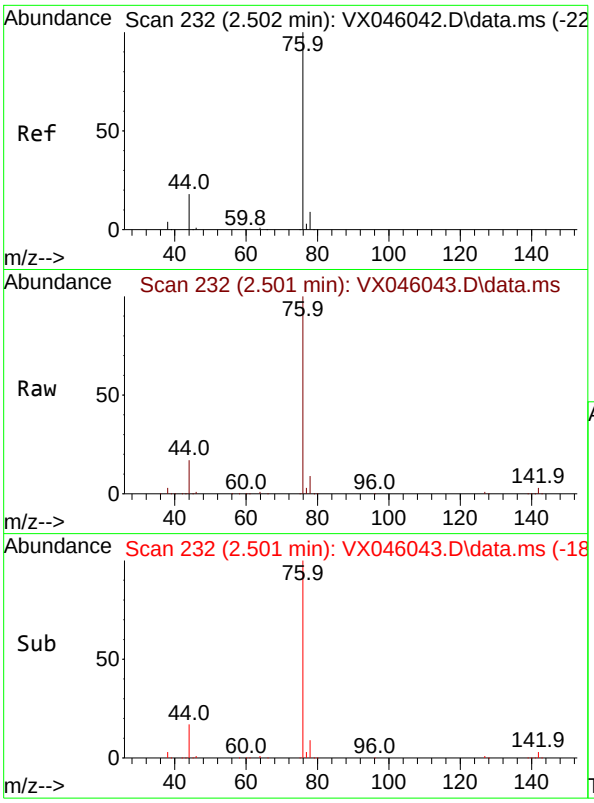



#16
Acetone
Concen: 354.936 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 314383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.6 | 21.2 | 31.8 |

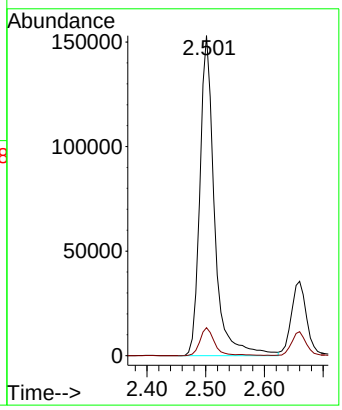





#17
Carbon Disulfide
Concen: 77.867 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 76 Resp: 26495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.7 | 7.0 | 10.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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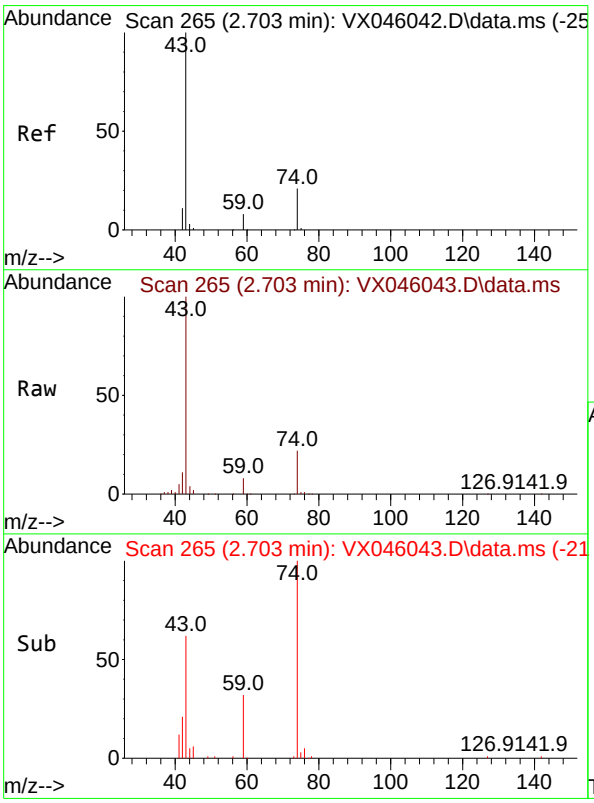
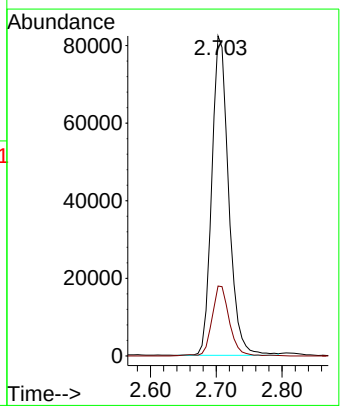
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

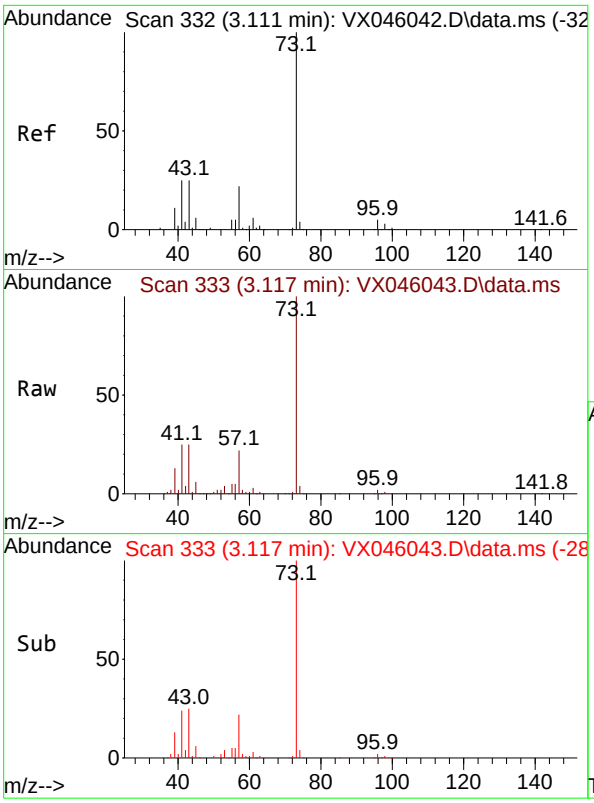



#18
Methyl Acetate
Concen: 69.531 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 147014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 22.6 | 16.7 | 25.1 |

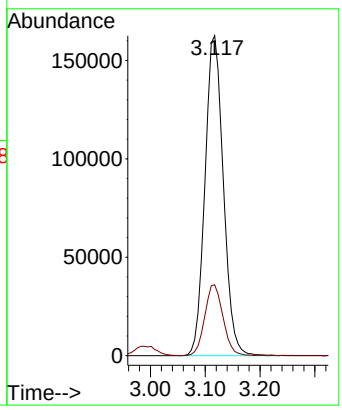





#19
Methyl tert-butyl Ether
Concen: 73.818 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 73 Resp: 37811

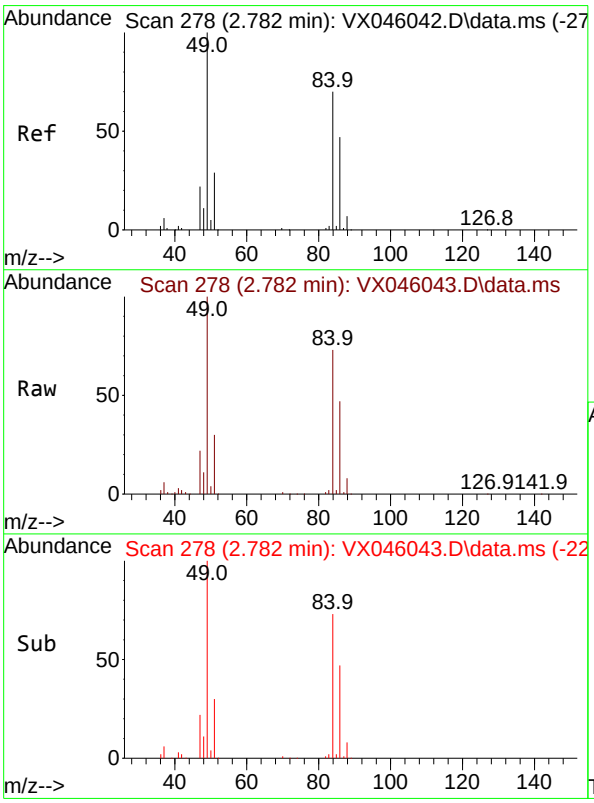
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.1 | 17.7 | 26.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

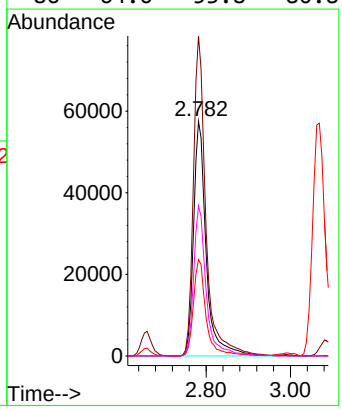
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

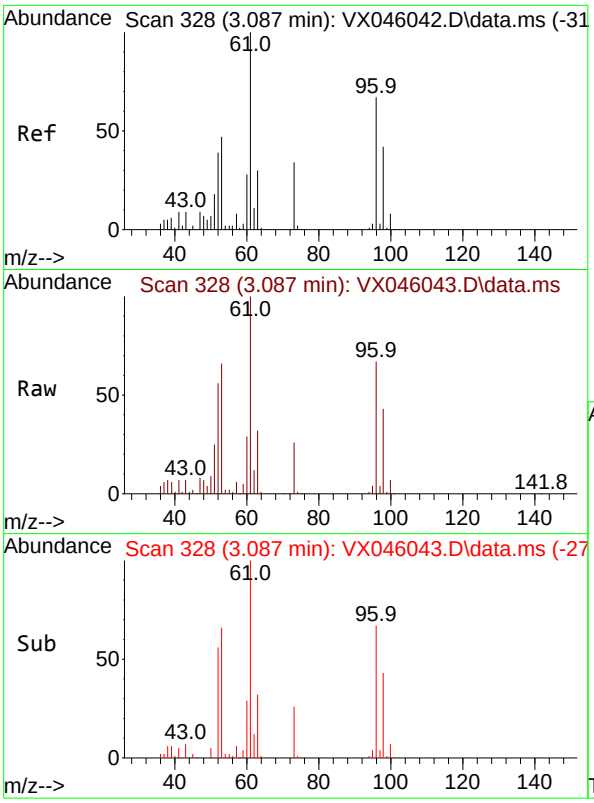



#20
Methylene Chloride
Concen: 67.030 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 84 Resp: 120270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 136.4 | 113.9 | 170.9 |
| 51 | 41.1 | 33.5 | 50.3 |
| 86 | 64.0 | 53.8 | 80.8 |






#21
trans-1,2-Dichloroethene
Concen: 71.109 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

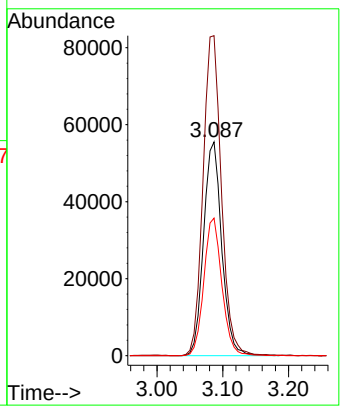
Tgt Ion: 96 Resp: 10660

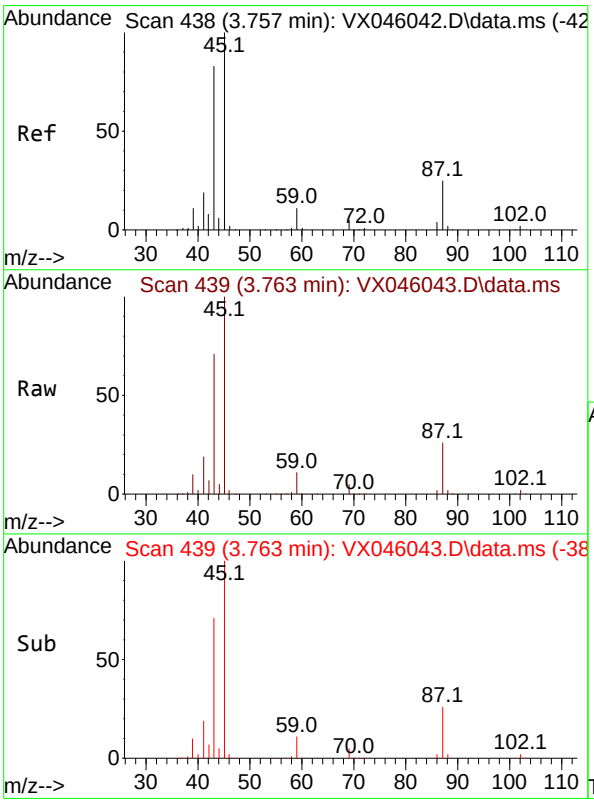
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 149.7 | 119.5 | 179.3 |
| 98 | 64.4 | 50.0 | 75.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

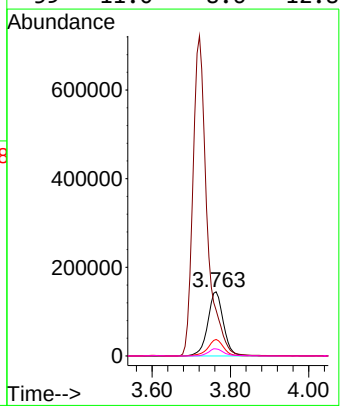


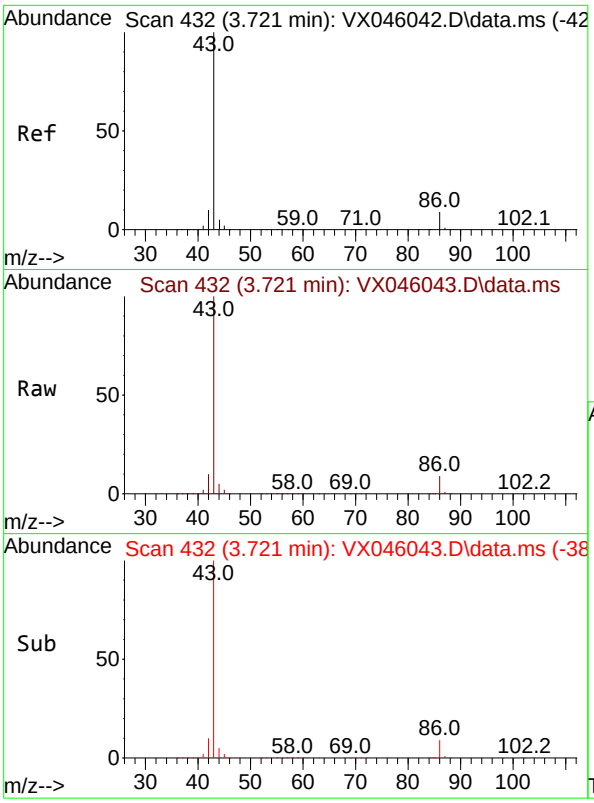




#22
Diisopropyl ether
Concen: 77.048 ug/l
RT: 3.763 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 45 Resp: 399494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 71.2 | 66.6 | 100.0 |
| 87 | 25.7 | 19.8 | 29.6 |
| 59 | 11.0 | 8.6 | 12.8 |

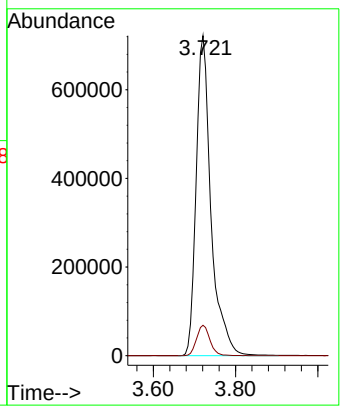





#23
Vinyl Acetate
Concen: 395.363 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 181155

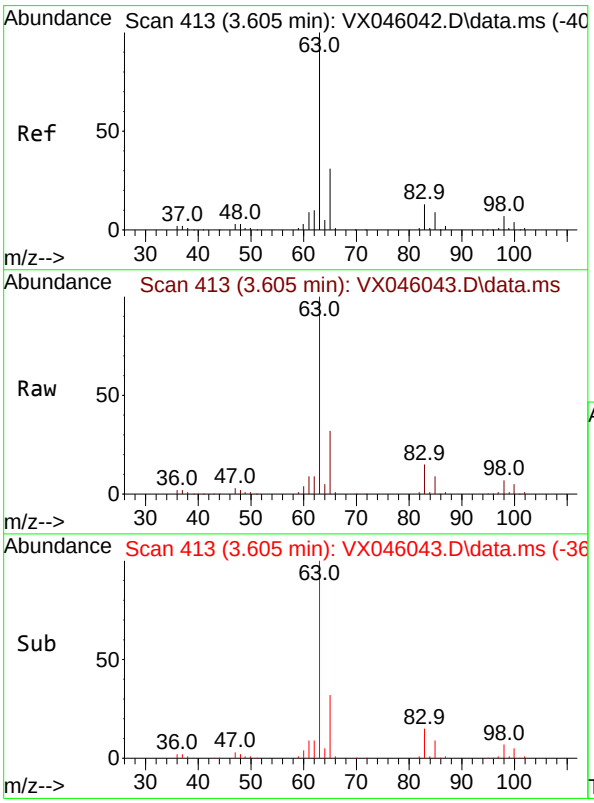
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.5 | 7.5 | 11.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

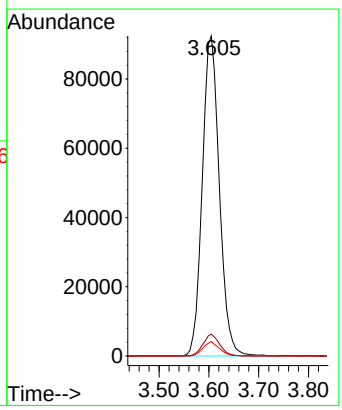
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

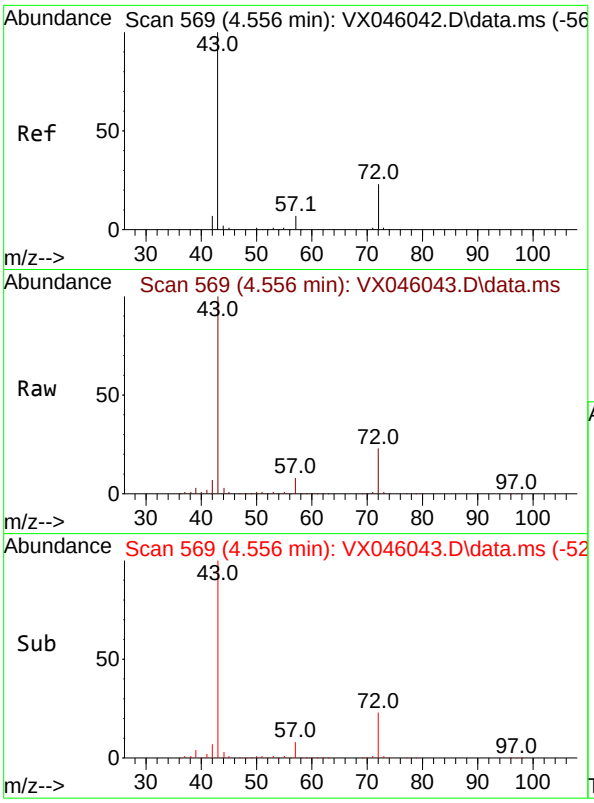



#24
1,1-Dichloroethane
Concen: 72.114 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 63 Resp: 219759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.8 | 3.6 | 10.8 |
| 100 | 4.5 | 2.1 | 6.3 |

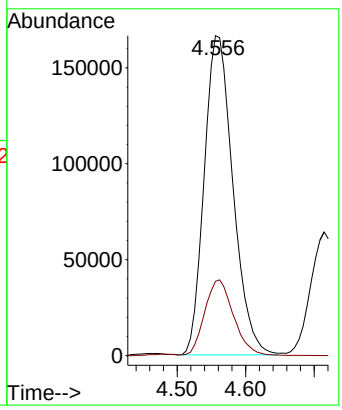





#25
2-Butanone
Concen: 379.704 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 48544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.1 | 18.4 | 27.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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Reviewed By :John Carlone 05/06/2025
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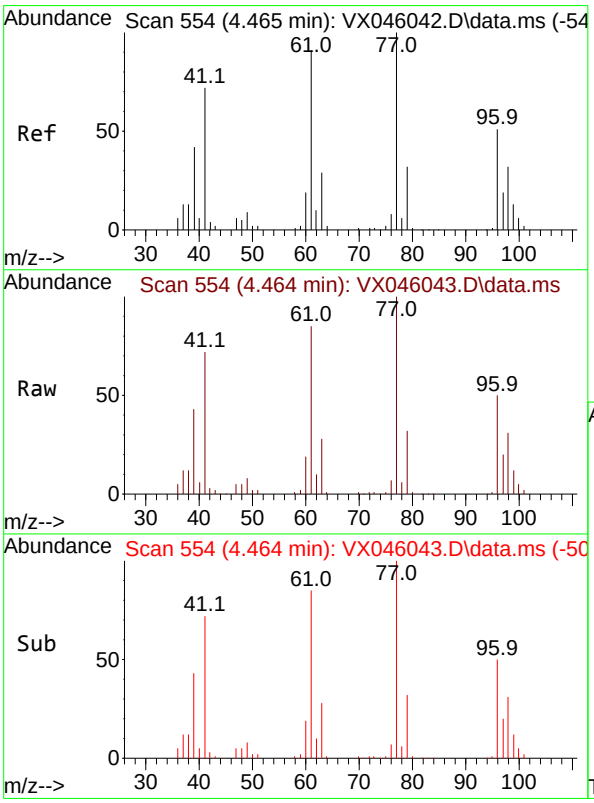
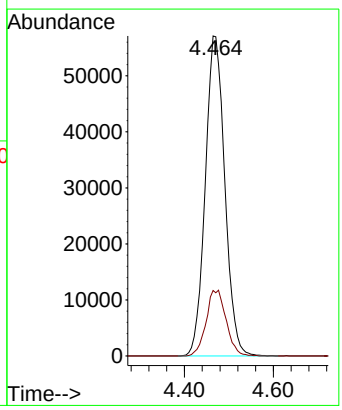
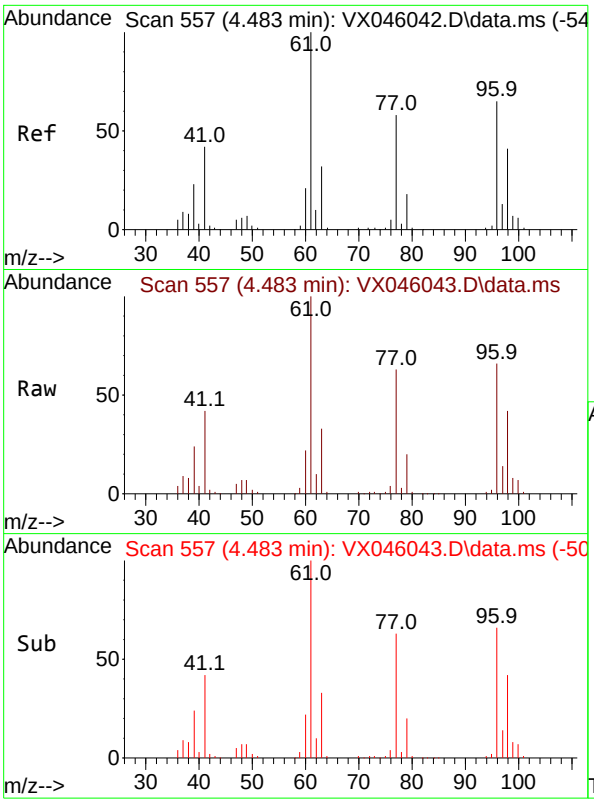



#26
2,2-Dichloropropane
Concen: 75.621 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 77 Resp: 174579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.1 | 10.5 | 31.5 |

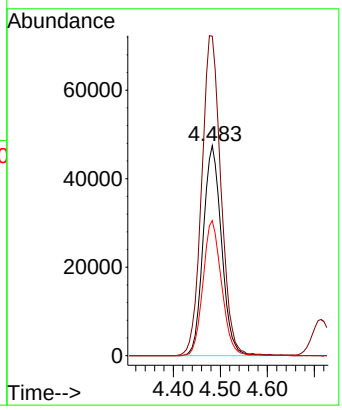





#27
cis-1,2-Dichloroethene
Concen: 71.056 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 96 Resp: 12845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 160.1 | 0.0 | 322.8 |
| 98 | 64.9 | 0.0 | 129.0 |




**Instrument :**
MSVOA_X
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VSTDICC100

**Manual Integrations**
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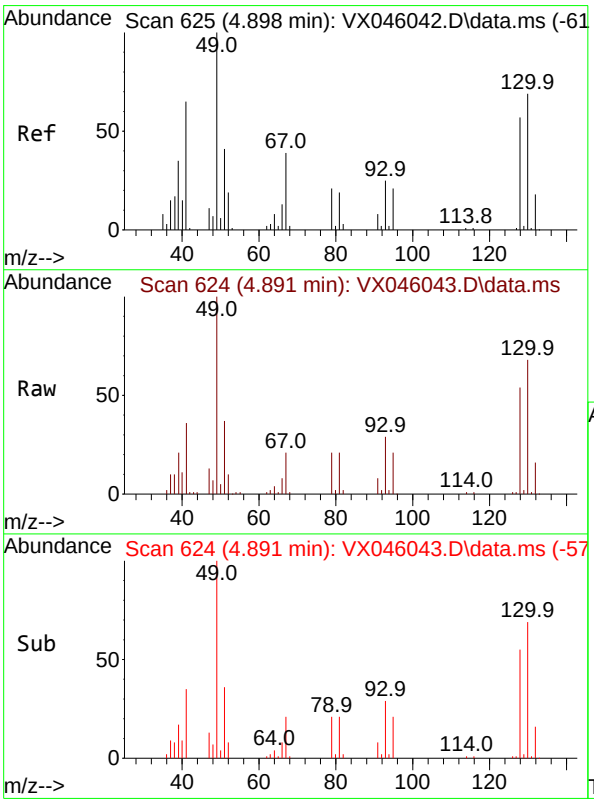
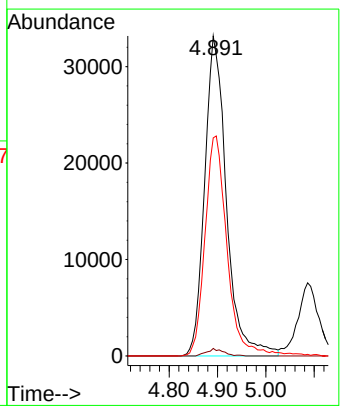
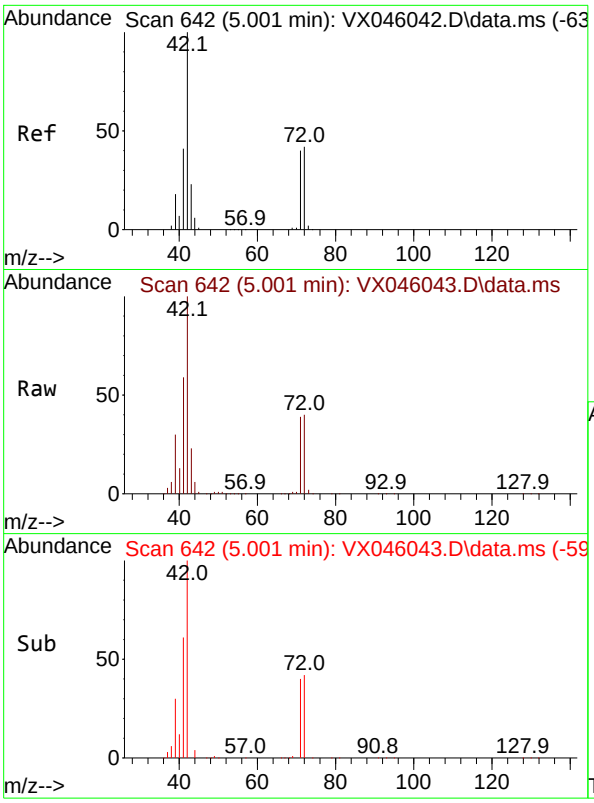



#28
Bromochloromethane
Concen: 63.932 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 49 Resp: 103602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 4.0 |
| 130 | 70.1 | 56.2 | 84.2 |






#29
Tetrahydrofuran
Concen: 368.234 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 42 Resp: 30575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.1 | 33.7 | 50.5 |
| 71 | 38.7 | 31.4 | 47.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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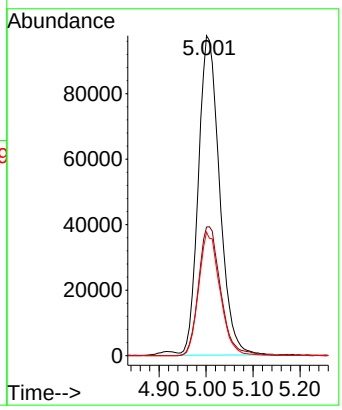
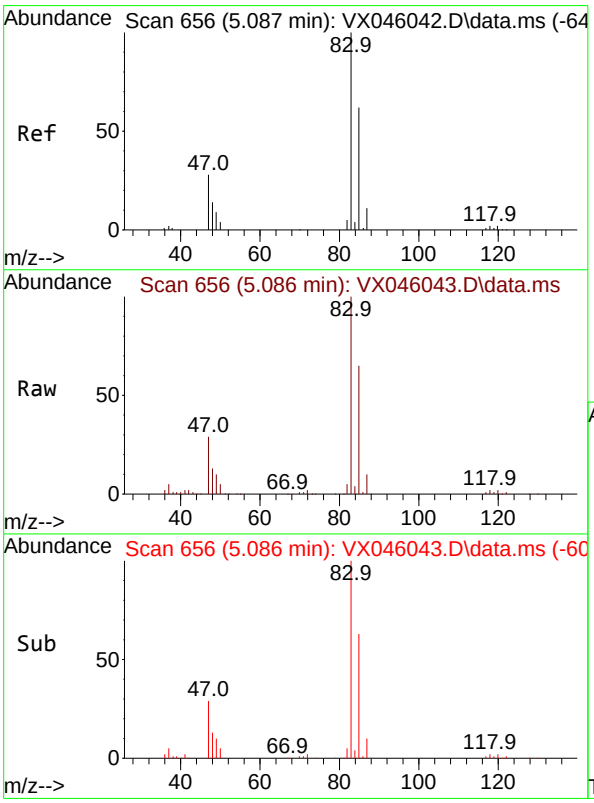
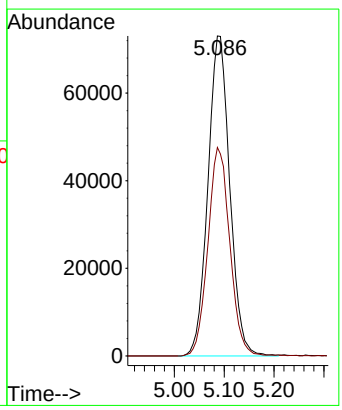


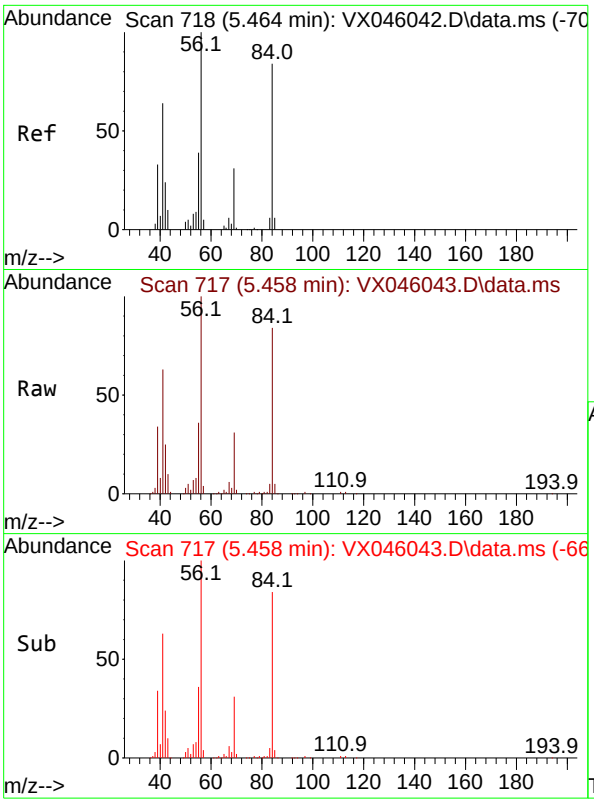




#30
Chloroform
Concen: 70.180 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 83 Resp: 222253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.1 | 49.3 | 73.9 |

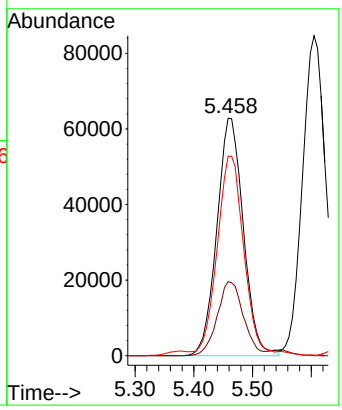





#31
Cyclohexane
Concen: 76.428 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 56 Resp: 19630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.2 | 24.4 | 36.6 |
| 84 | 82.3 | 66.9 | 100.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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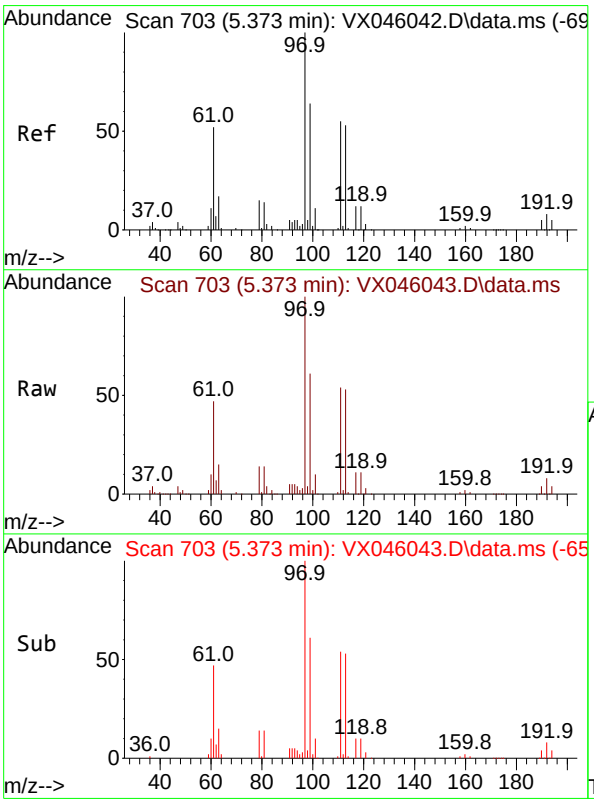
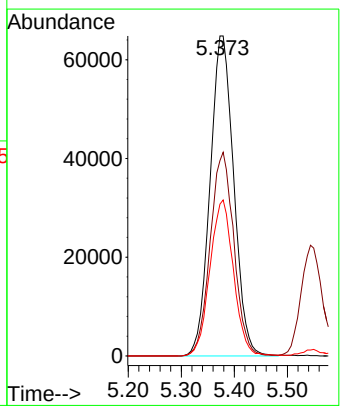
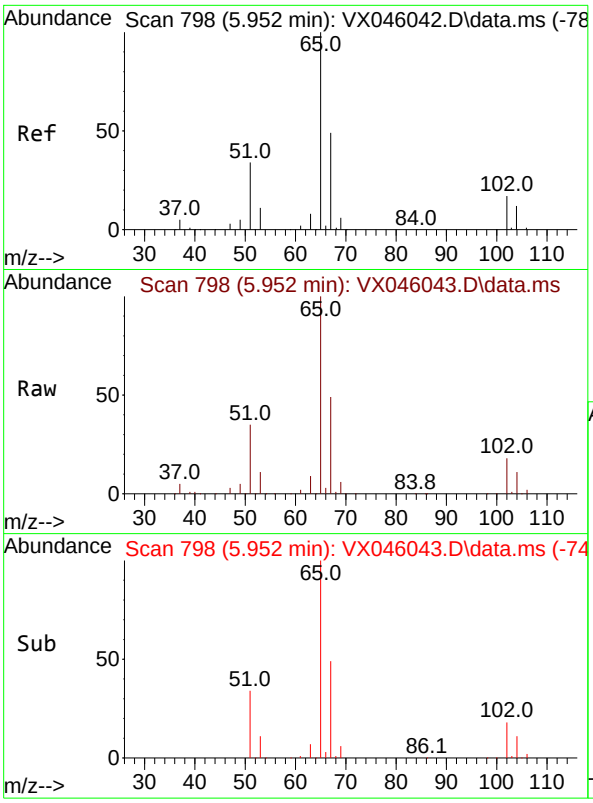



#32
1,1,1-Trichloroethane
Concen: 73.635 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 97 Resp: 201112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.8 | 51.8 | 77.6 |
| 61 | 48.7 | 40.1 | 60.1 |

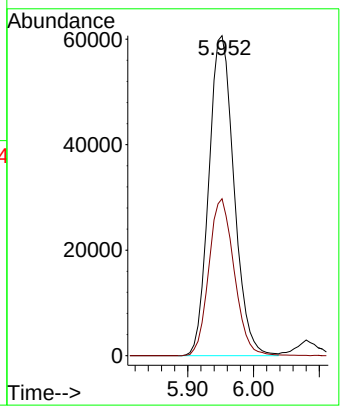





#33
1,2-Dichloroethane-d4
Concen: 62.526 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 65 Resp: 16187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.5 | 0.0 | 99.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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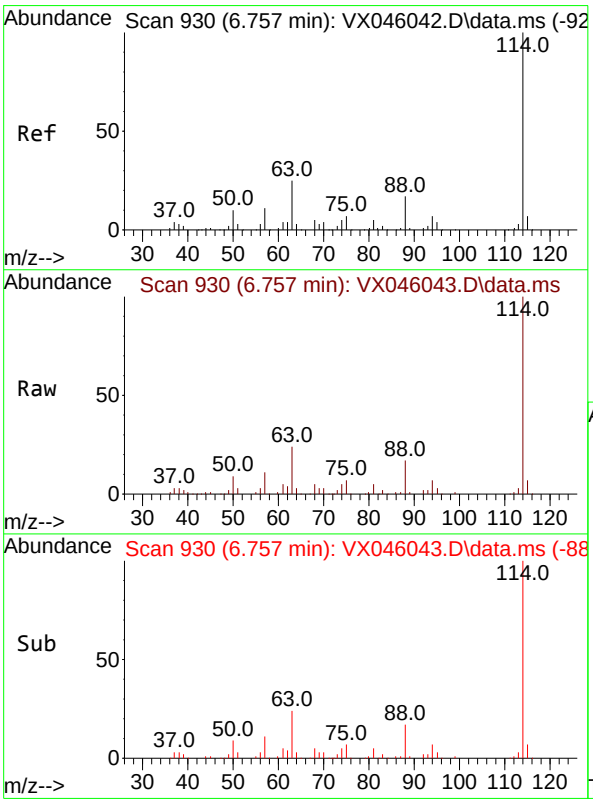
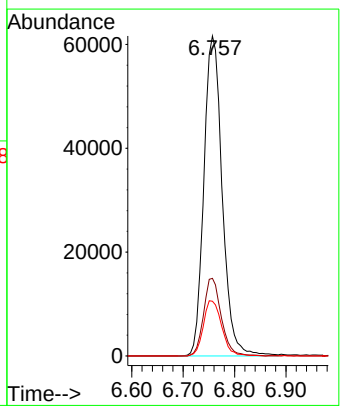
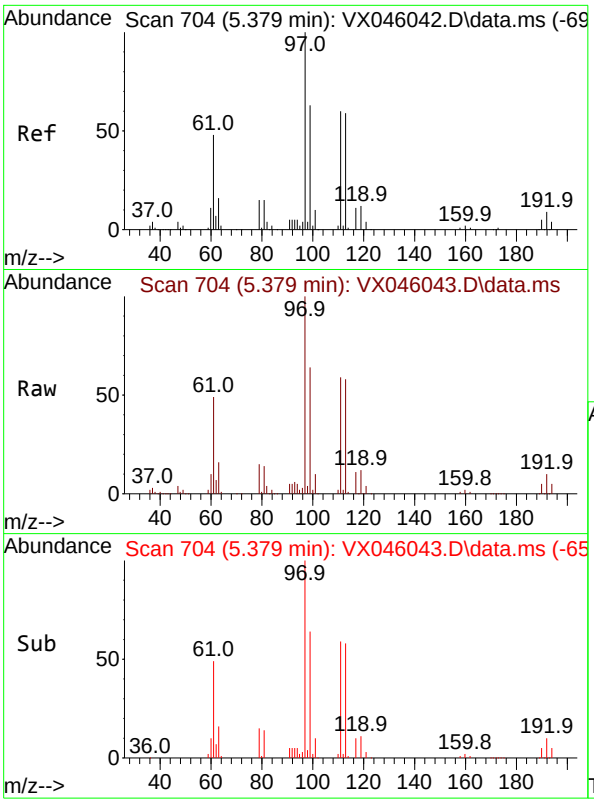



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:114 Resp: 152958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 24.3 | 0.0 | 49.2 |
| 88 | 17.1 | 0.0 | 33.6 |

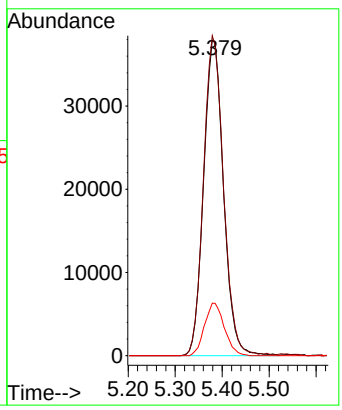





#35
Dibromofluoromethane
Concen: 65.006 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:113 Resp: 11145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.7 | 83.1 | 124.7 |
| 192 | 16.6 | 13.3 | 19.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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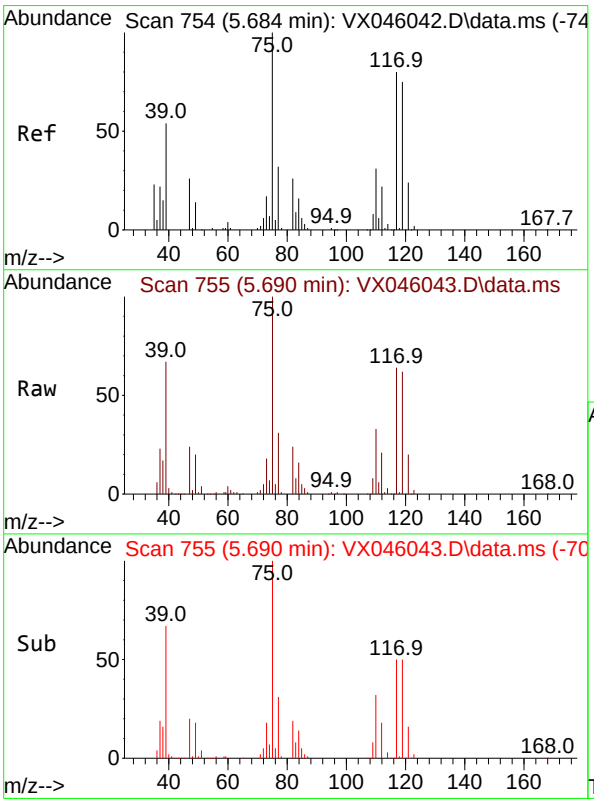
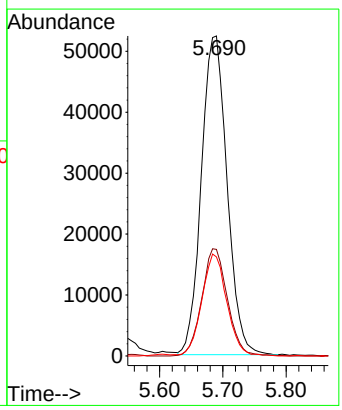
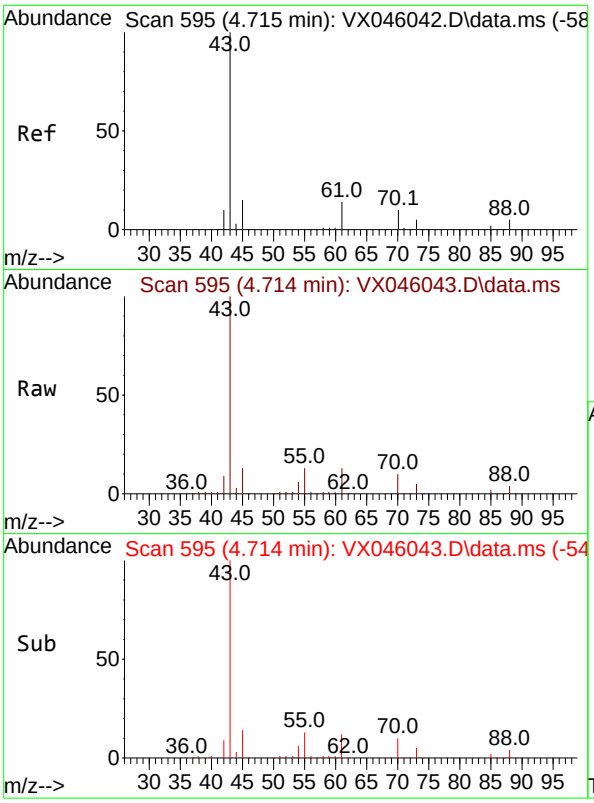



#36
1,1-Dichloropropene
Concen: 74.285 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 147873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.5 | 16.3 | 48.9 |
| 77 | 31.1 | 24.3 | 36.5 |

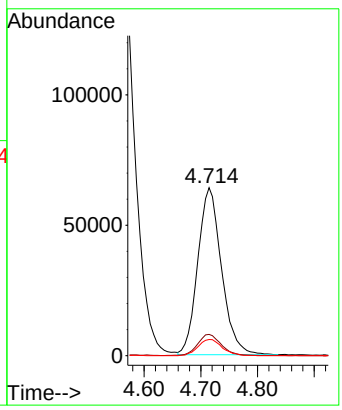





#37
Ethyl Acetate
Concen: 74.565 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 18621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 12.4 | 10.3 | 15.5 |
| 70 | 9.9 | 7.9 | 11.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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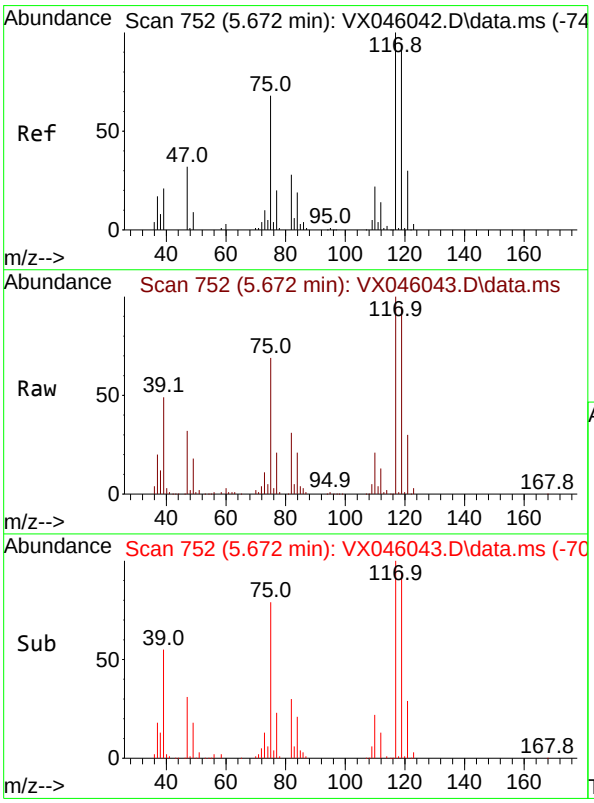
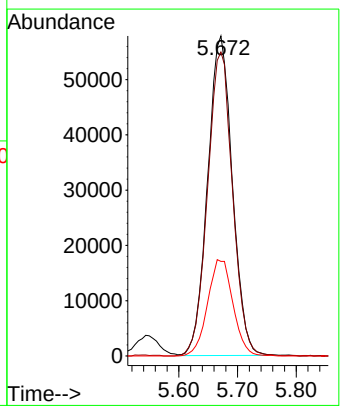
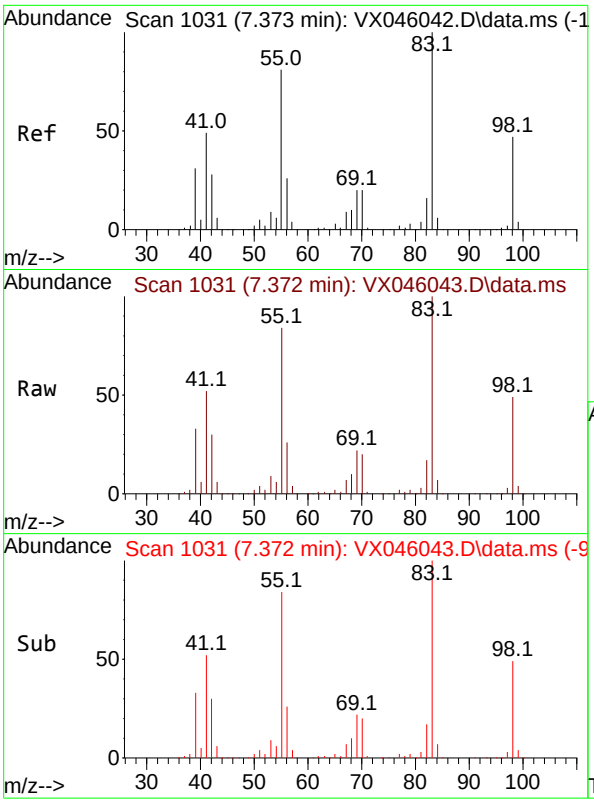



#38
Carbon Tetrachloride
Concen: 73.875 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:117 Resp: 168946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.0 | 75.2 | 112.8 |
| 121 | 29.6 | 24.2 | 36.4 |

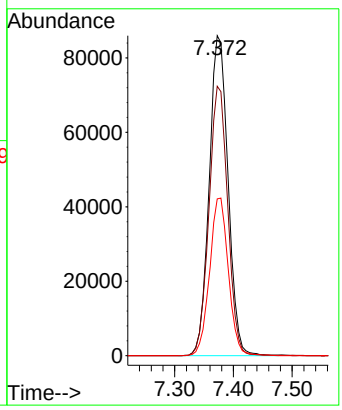





#39
Methylcyclohexane
Concen: 76.952 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 83 Resp: 19194

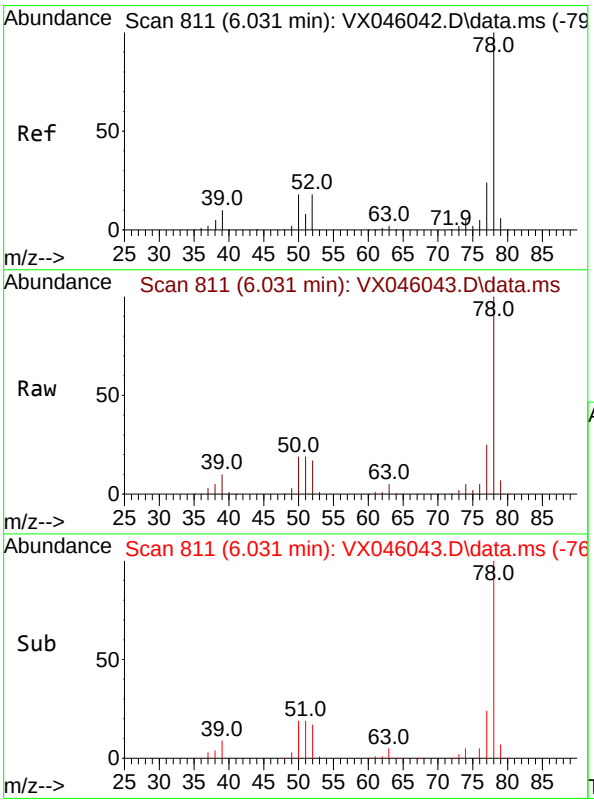
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 84.2 | 64.7 | 97.1 |
| 98 | 49.0 | 37.4 | 56.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

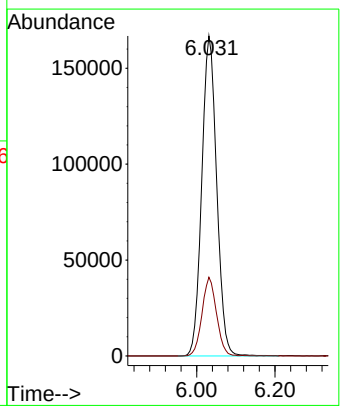
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

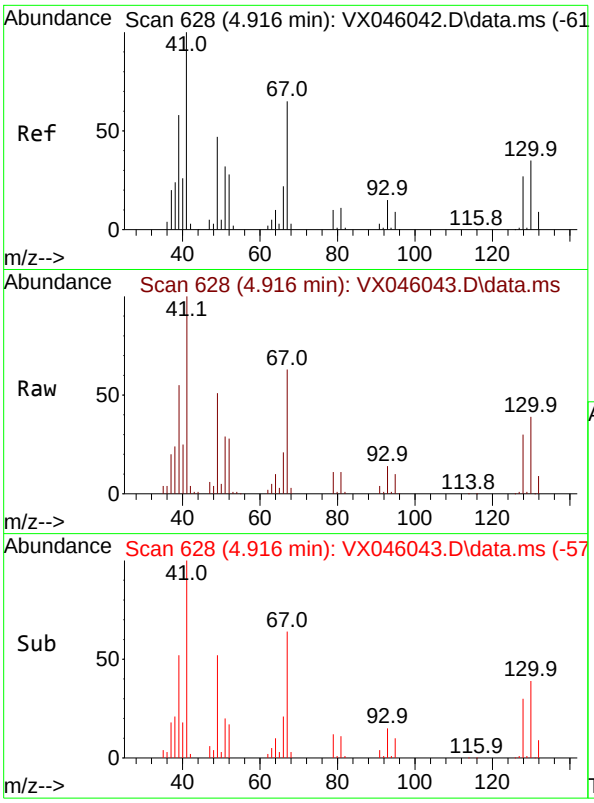



#40
Benzene
Concen: 71.457 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 78 Resp: 440885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.6 | 19.0 | 28.4 |

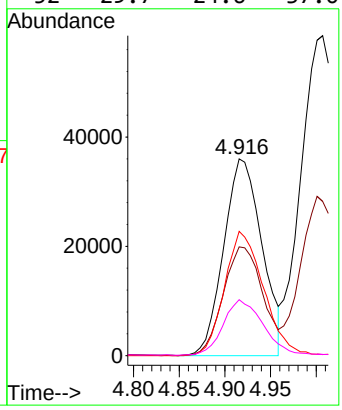





#41
Methacrylonitrile
Concen: 75.574 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 41 Resp: 10486

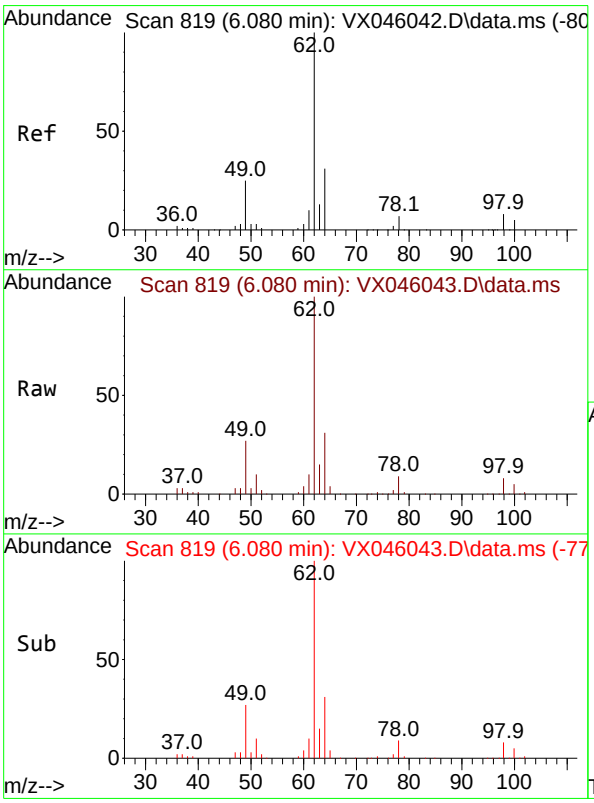
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.0 | 47.2 | 70.8 |
| 67 | 64.6 | 50.7 | 76.1 |
| 52 | 29.7 | 24.6 | 37.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

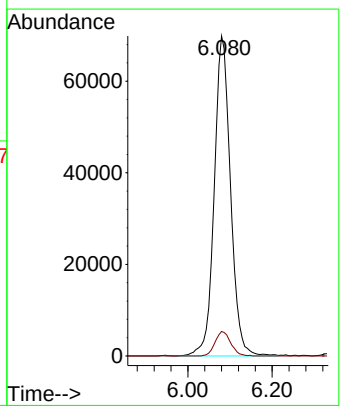
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

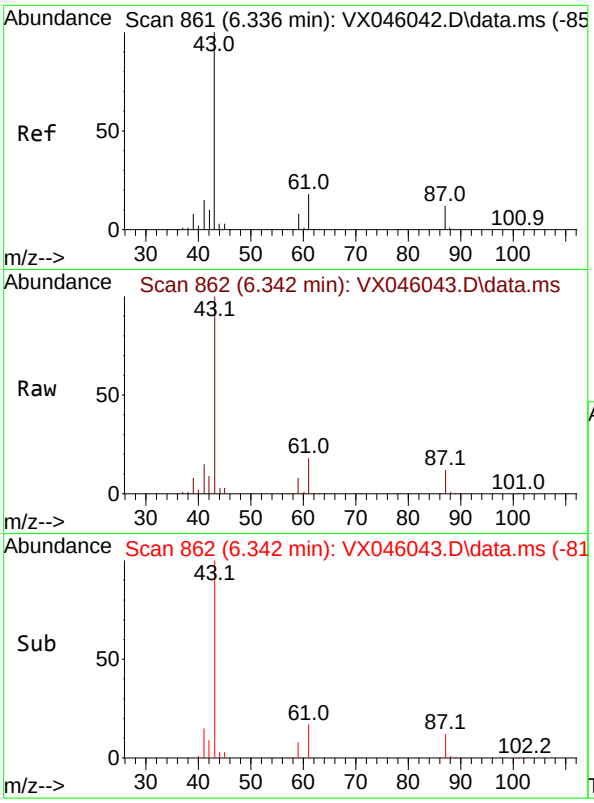



#42
1,2-Dichloroethane
Concen: 73.318 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 62 Resp: 187036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.4 | 0.0 | 15.2 |

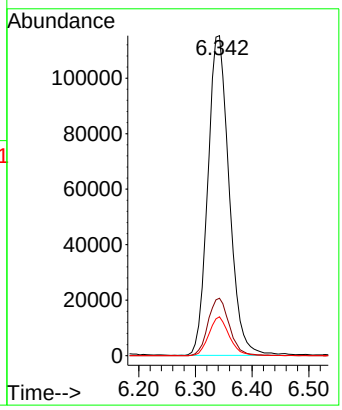





#43
Isopropyl Acetate
Concen: 78.714 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 30049

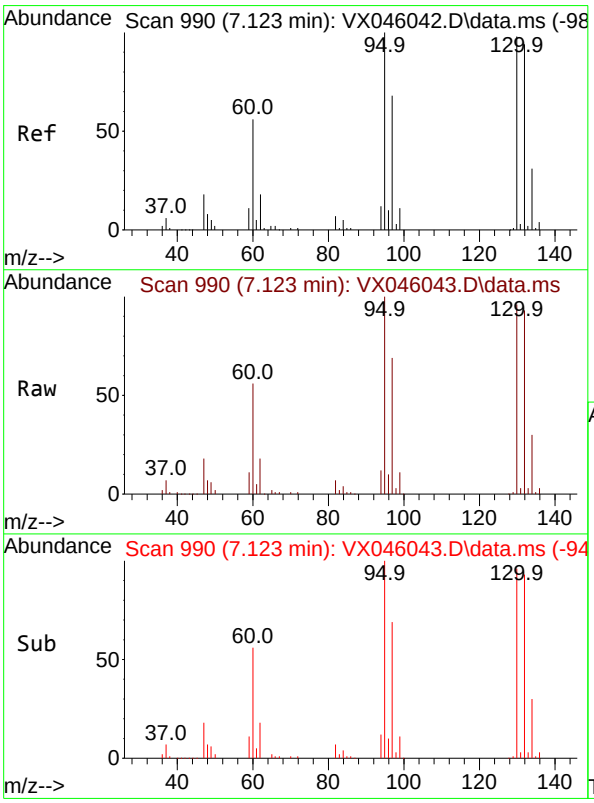
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 18.0 | 14.3 | 21.5 |
| 87 | 11.6 | 9.5 | 14.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

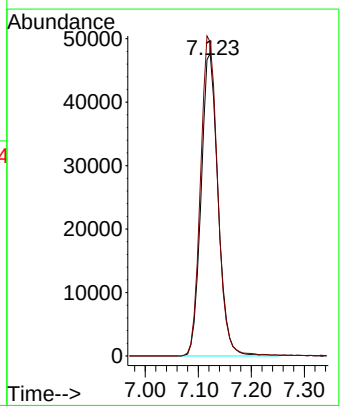
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

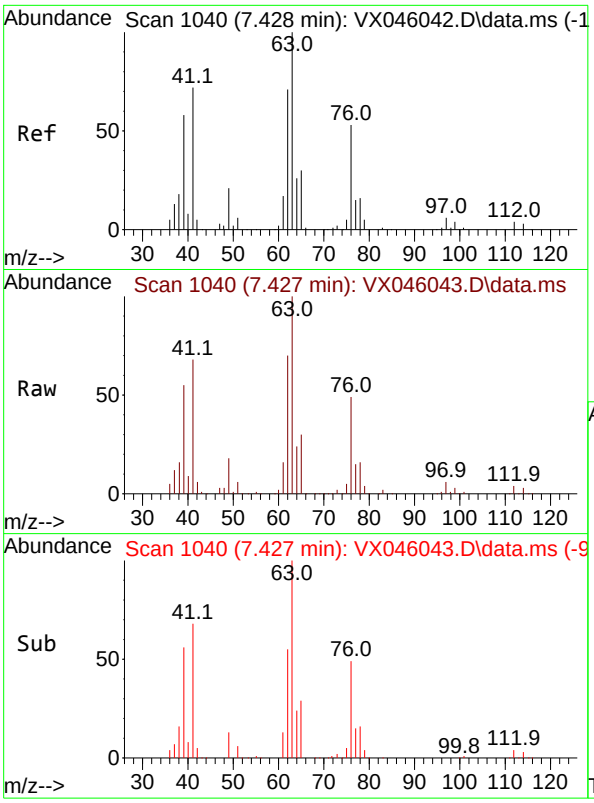



#44
Trichloroethene
Concen: 72.420 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:130 Resp: 105628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 103.8 | 0.0 | 204.2 |

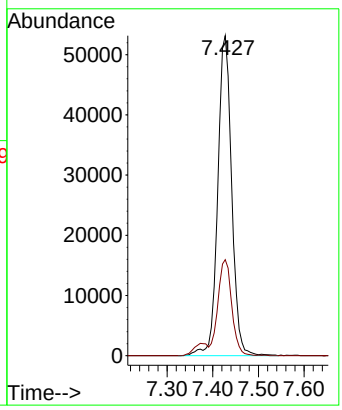





#45
1,2-Dichloropropane
Concen: 73.420 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 63 Resp: 11255

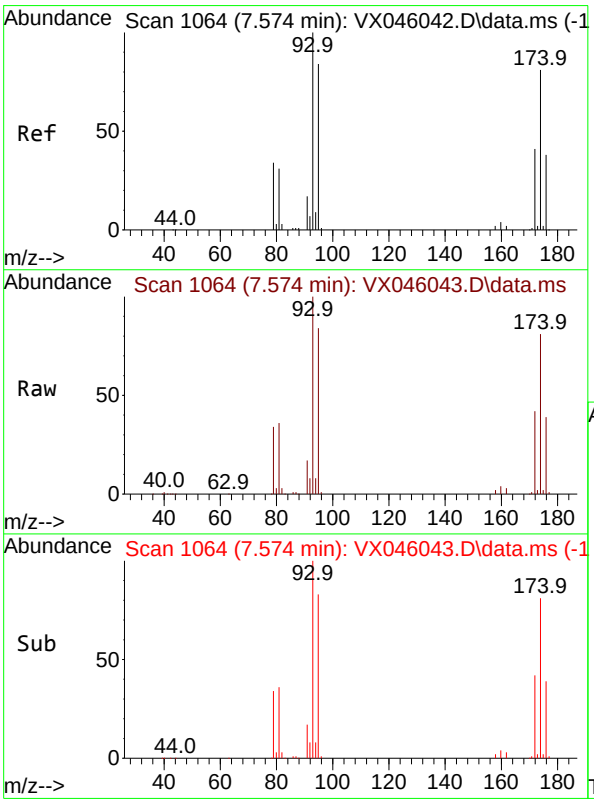
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.0 | 24.1 | 36.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

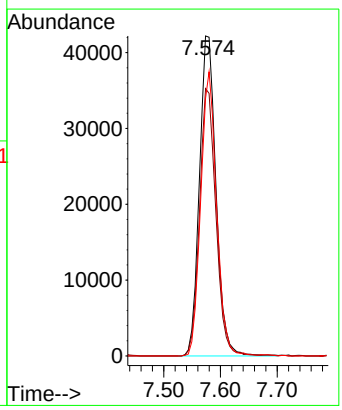
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

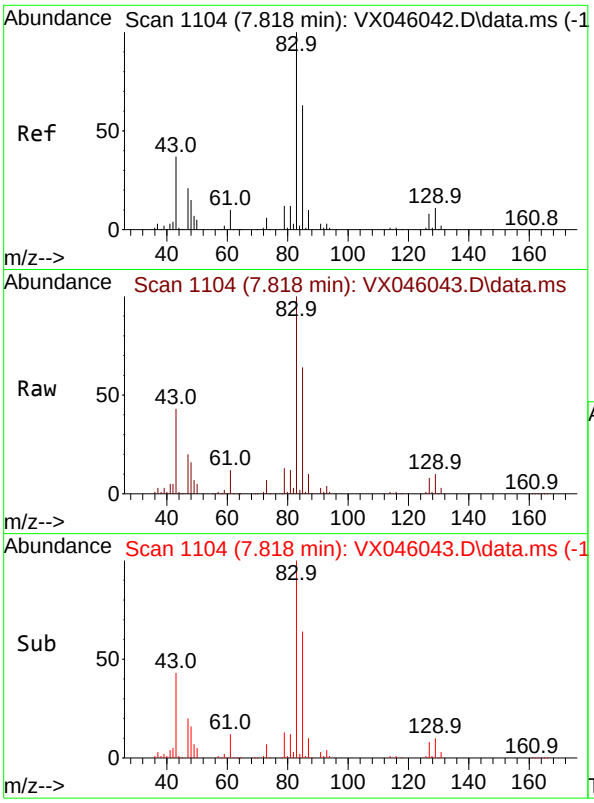



#46
Dibromomethane
Concen: 70.938 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 93 Resp: 85728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.4 | 65.6 | 98.4 |
| 174 | 85.0 | 68.2 | 102.2 |

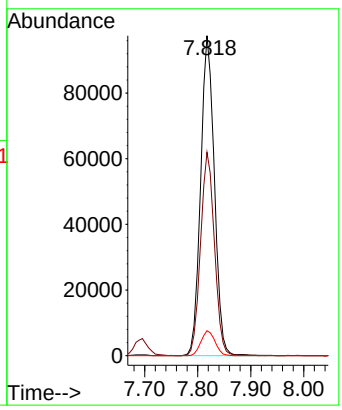





#47
Bromodichloromethane
Concen: 74.845 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 83 Resp: 17530

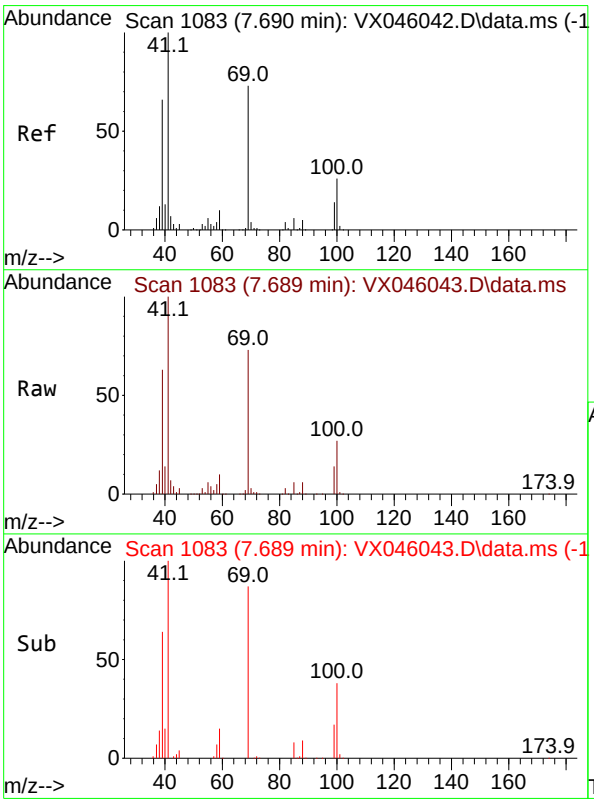
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.6 | 50.5 | 75.7 |
| 127 | 7.8 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

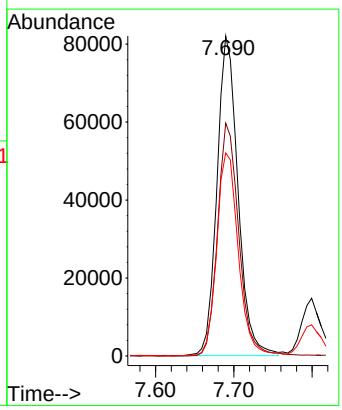
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

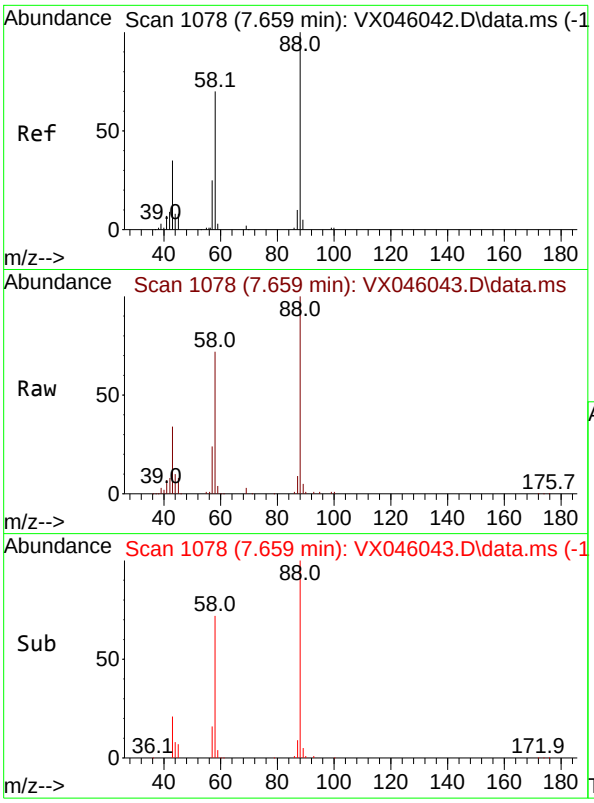



#48
Methyl methacrylate
Concen: 78.101 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 41 Resp: 153093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 74.1 | 58.5 | 87.7 |
| 39 | 65.5 | 51.7 | 77.5 |

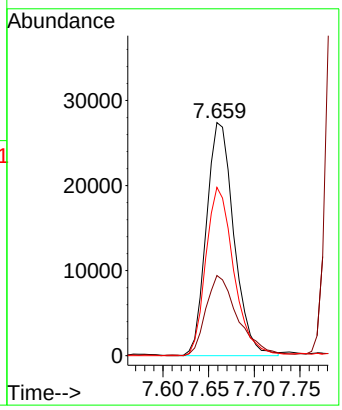





#49
1,4-Dioxane
Concen: 1470.687 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 88 Resp: 5731

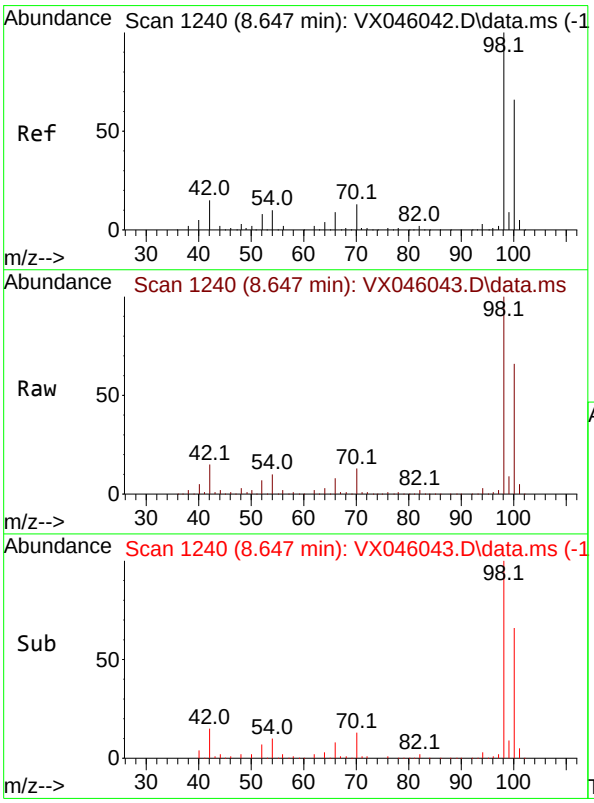
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 40.1 | 33.4 | 50.2 |
| 58 | 73.3 | 58.6 | 88.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

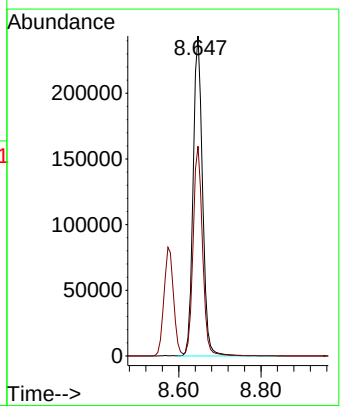
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

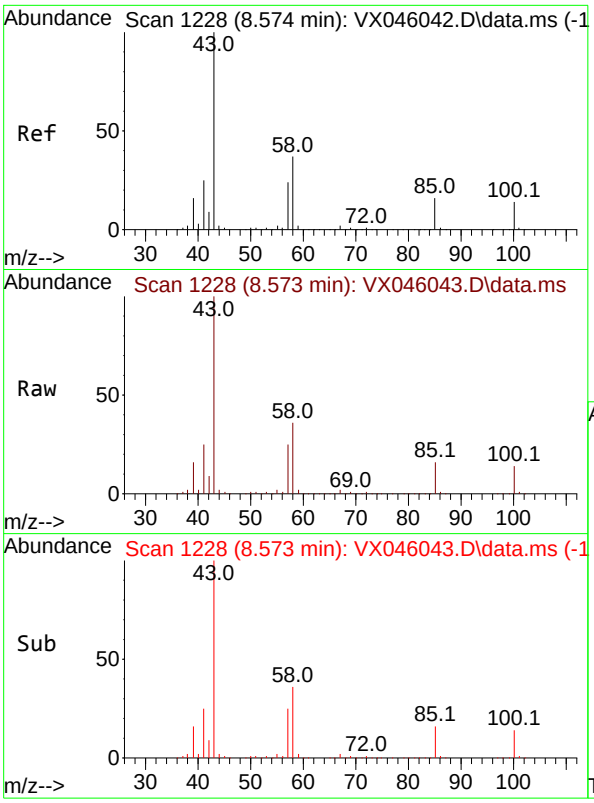



#50
Toluene-d8
Concen: 67.031 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 98 Resp: 387230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 53.5 | 80.3 |

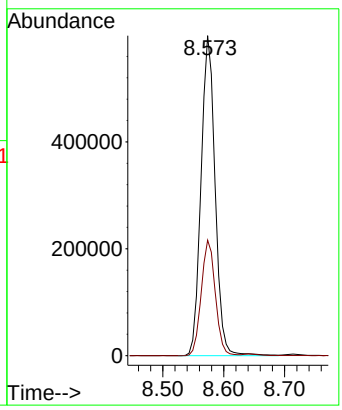





#51
4-Methyl-2-Pentanone
Concen: 384.740 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 96331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.1 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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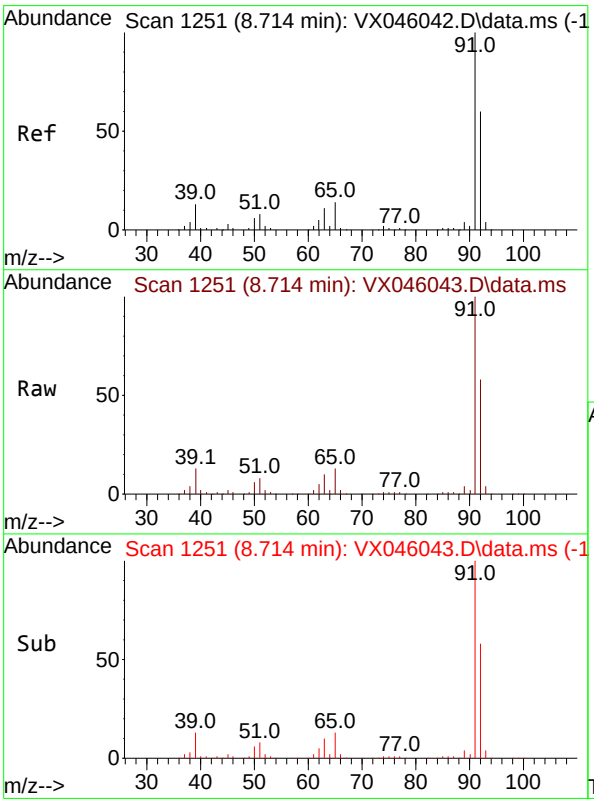
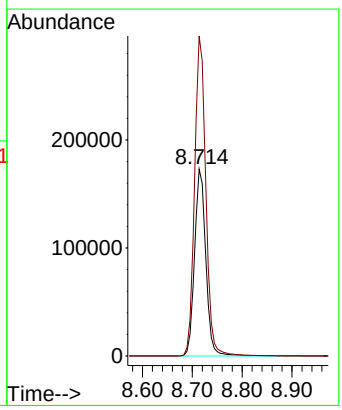
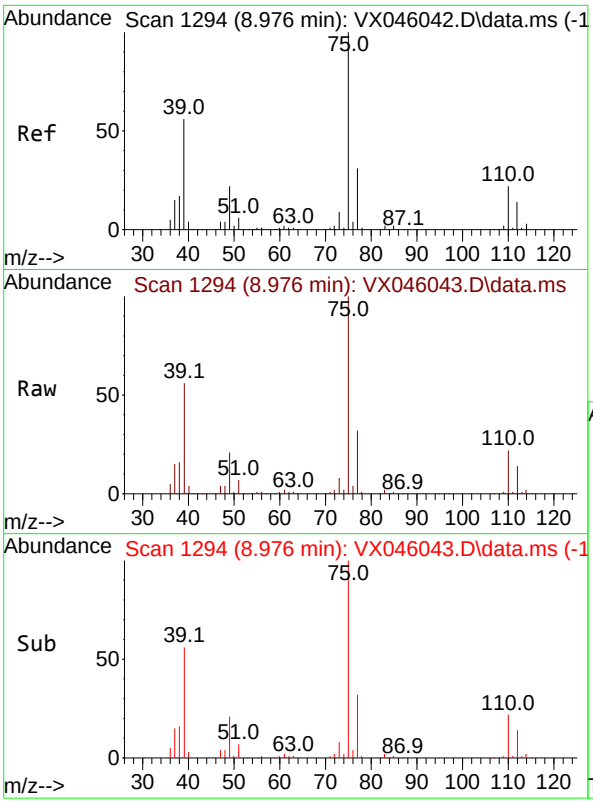



#52
Toluene
Concen: 74.010 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 92 Resp: 270763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.2 | 136.6 | 205.0 |

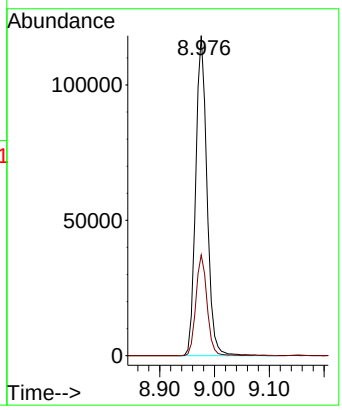





#53
t-1,3-Dichloropropene
Concen: 86.372 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 16986

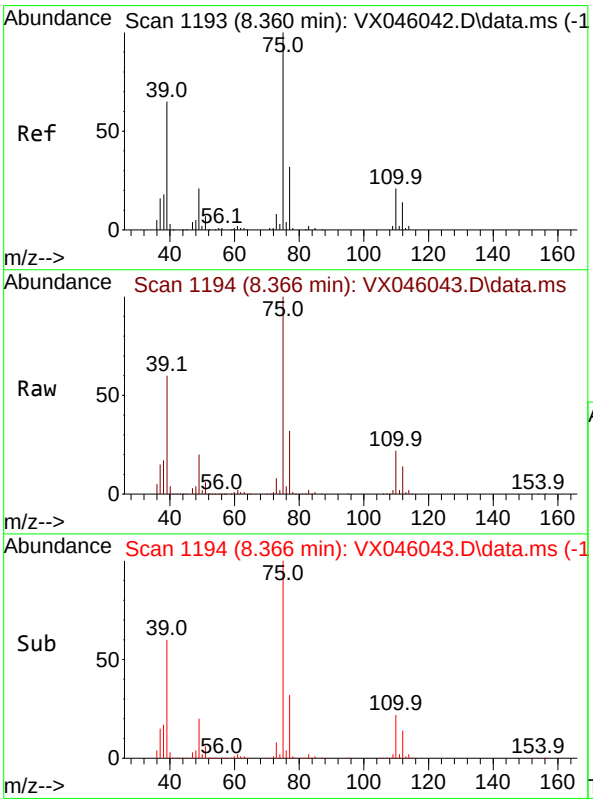
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.5 | 25.0 | 37.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

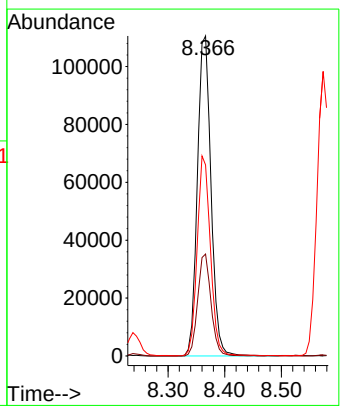
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

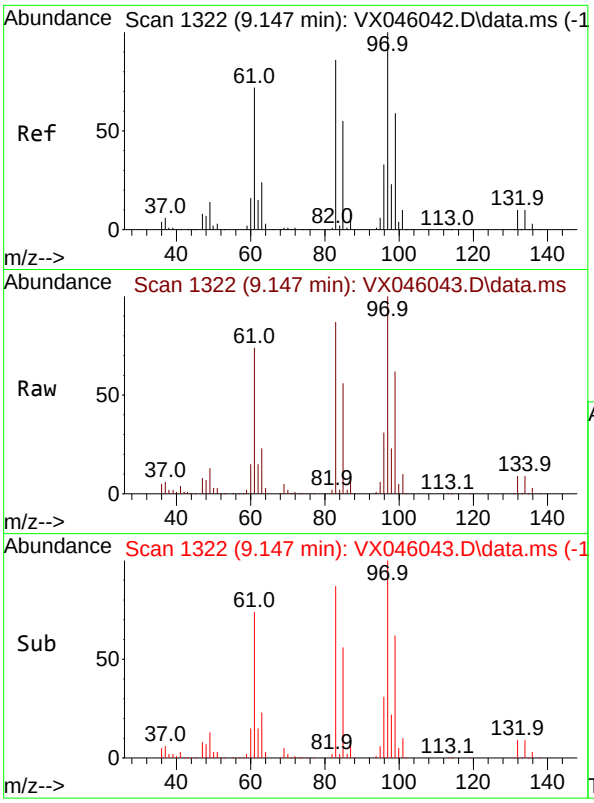



#54
cis-1,3-Dichloropropene
Concen: 80.264 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 184134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.4 | 38.0 |
| 39 | 59.6 | 52.2 | 78.4 |

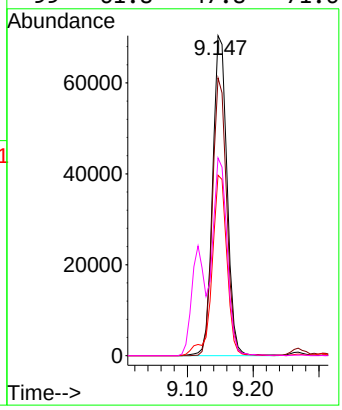





#55
1,1,2-Trichloroethane
Concen: 72.543 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 97 Resp: 10726

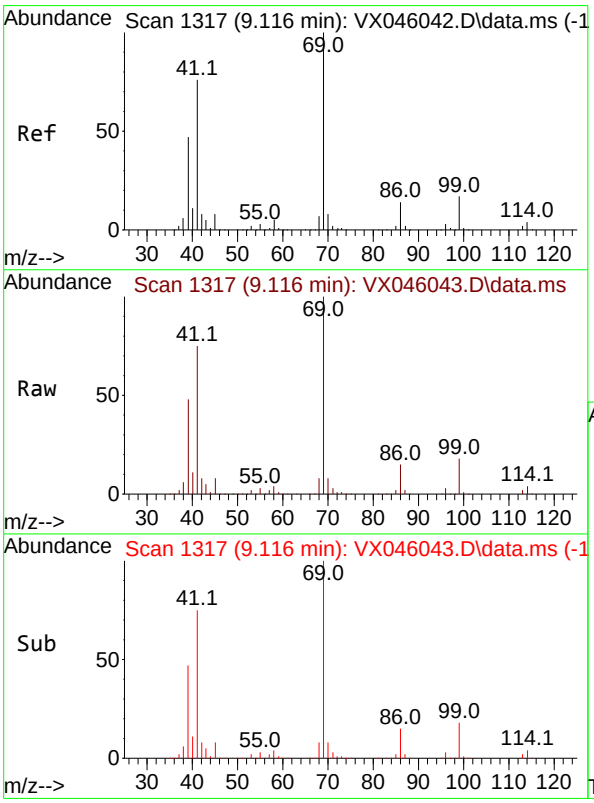
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.8 | 69.0 | 103.6 |
| 85 | 56.4 | 44.3 | 66.5 |
| 99 | 61.8 | 47.8 | 71.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

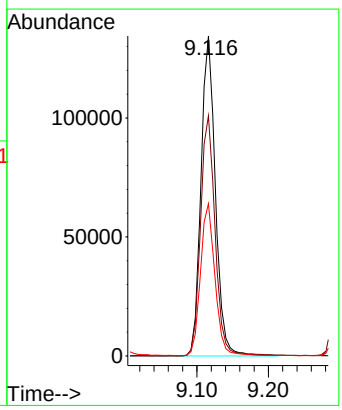
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

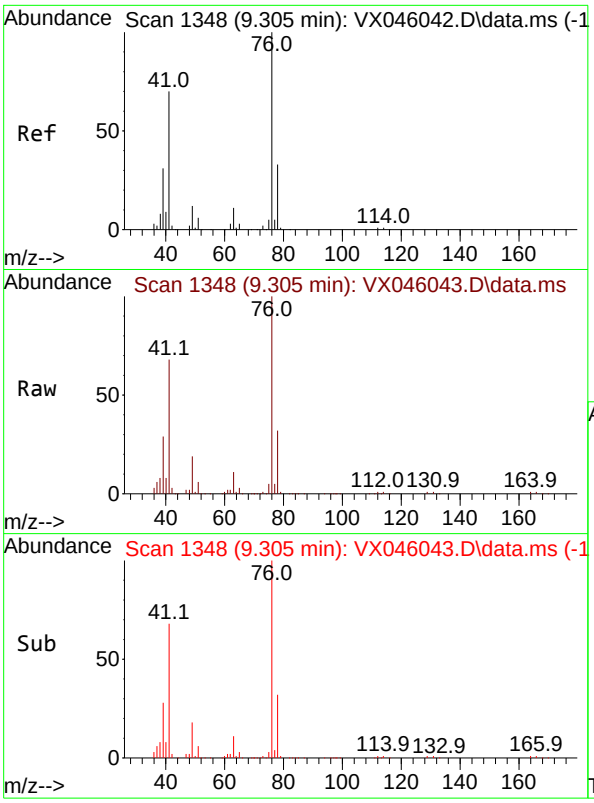



#56
Ethyl methacrylate
Concen: 82.359 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 69 Resp: 188717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 75.7 | 60.8 | 91.2 |
| 39 | 47.7 | 39.0 | 58.6 |

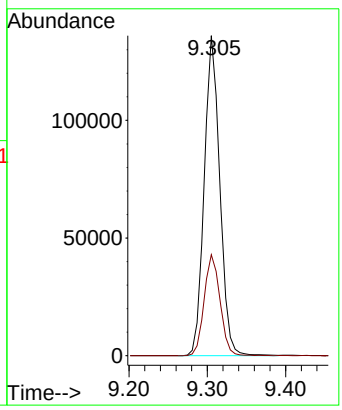





#57
1,3-Dichloropropane
Concen: 71.590 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 76 Resp: 18764

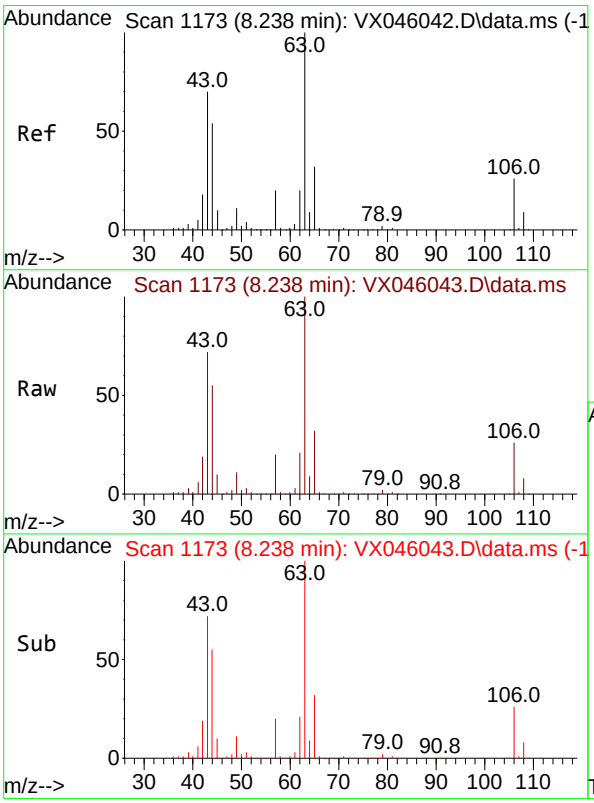
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.1 | 26.3 | 39.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

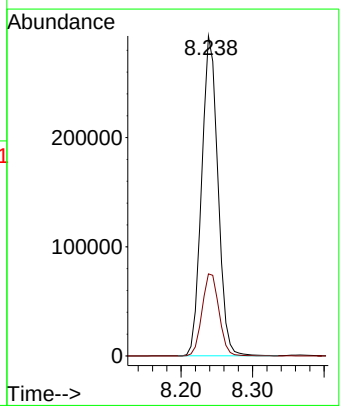
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

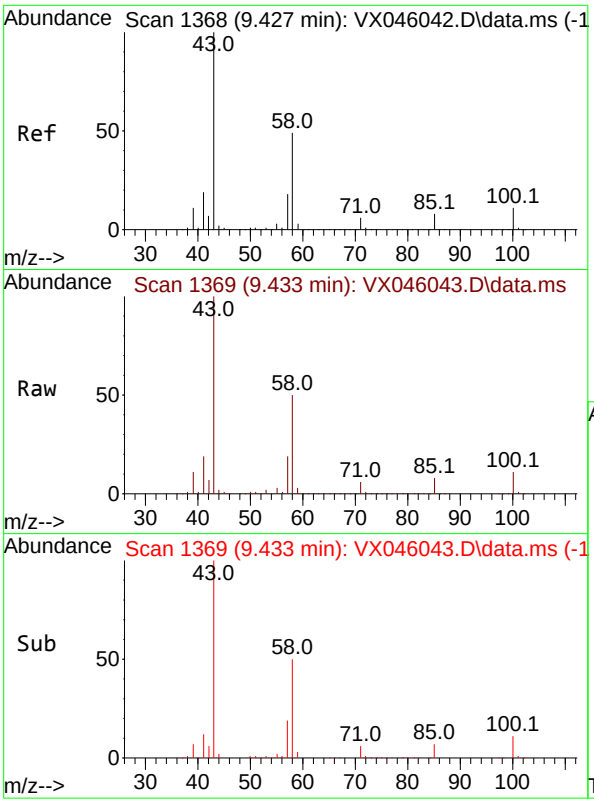



#58
2-Chloroethyl Vinyl ether
Concen: 449.791 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 63 Resp: 463169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.7 | 21.5 | 32.3 |

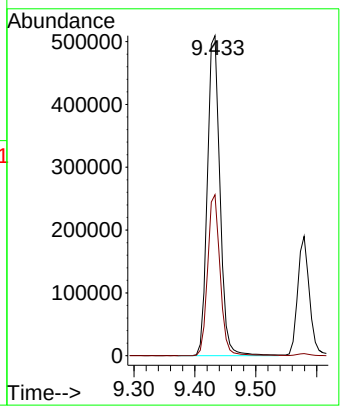





#59
2-Hexanone
Concen: 383.945 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 72960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.9 | 24.9 | 74.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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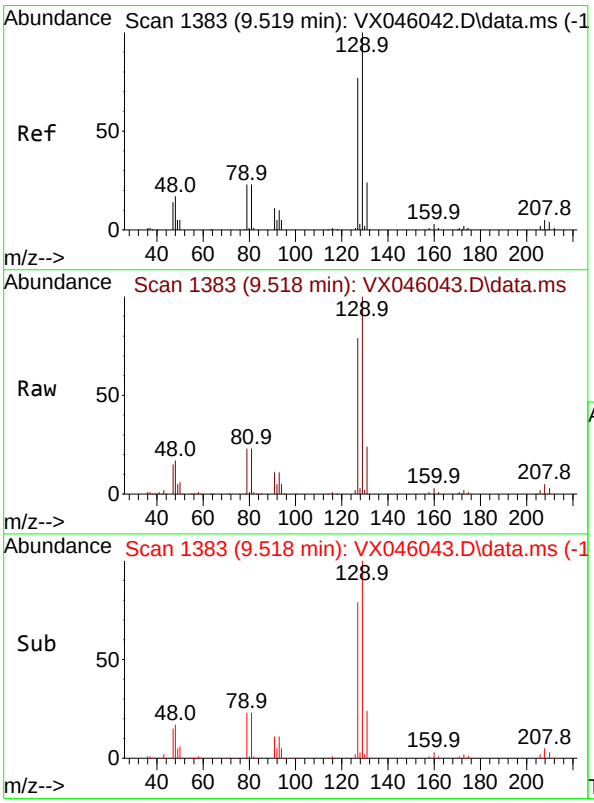
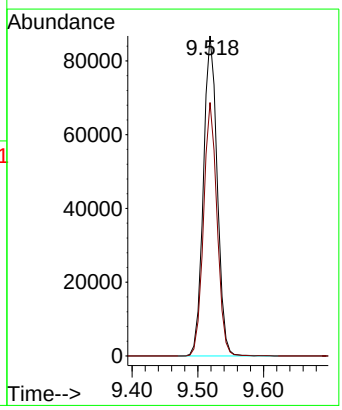
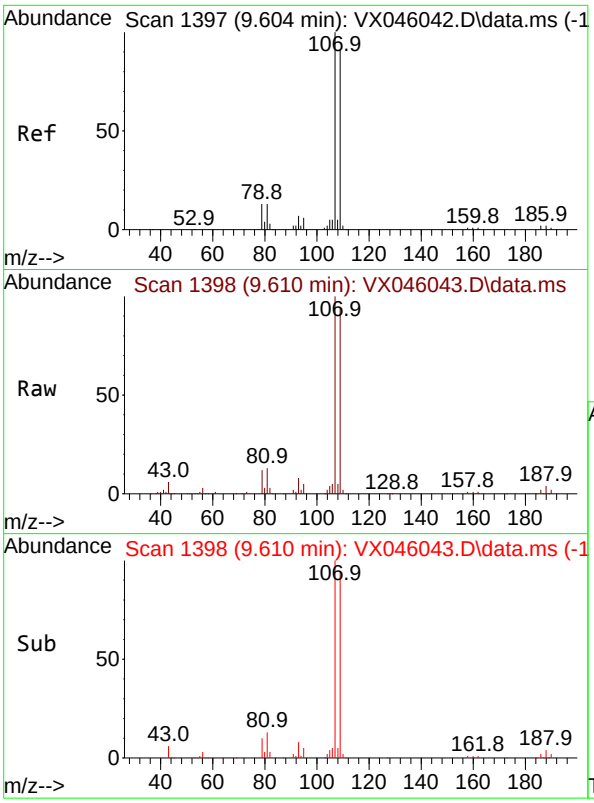



#60
Dibromochloromethane
Concen: 78.918 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:129 Resp: 127012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.0 | 39.3 | 117.8 |

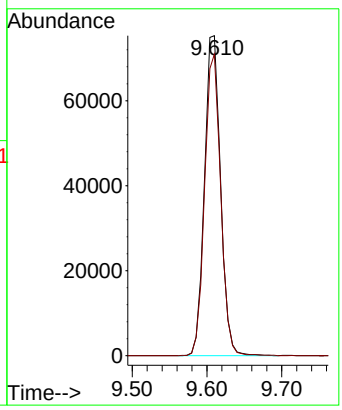





#61
1,2-Dibromoethane
Concen: 74.200 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:107 Resp: 11266

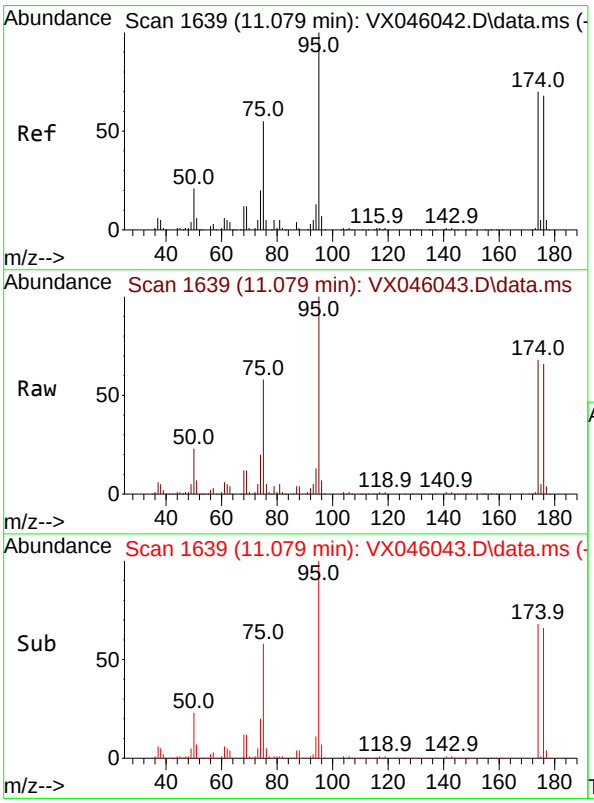
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.9 | 73.3 | 109.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

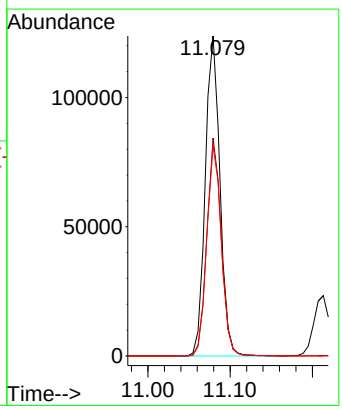
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

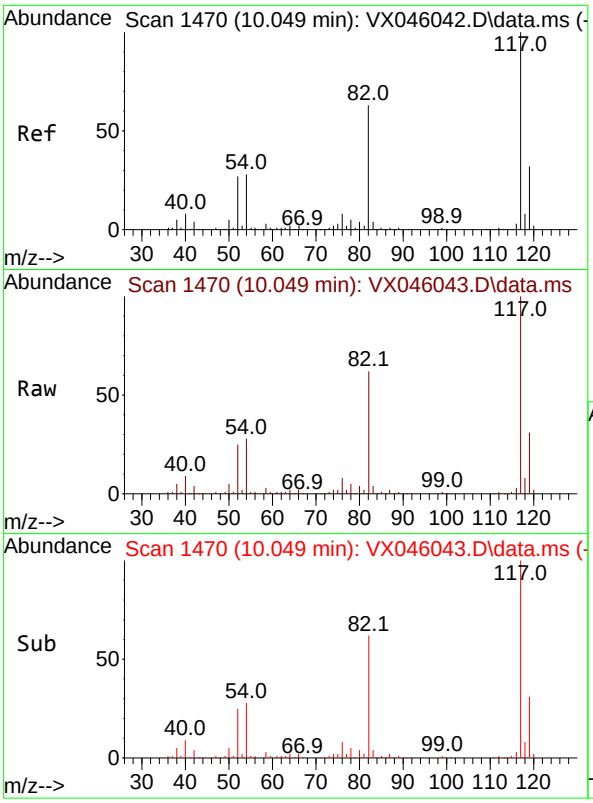



#62
4-Bromofluorobenzene
Concen: 72.818 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 95 Resp: 153085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.1 | 0.0 | 135.8 |
| 176 | 65.3 | 0.0 | 131.4 |

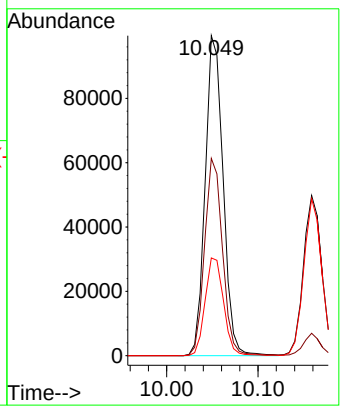





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:117 Resp: 13521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.7 | 50.6 | 76.0 |
| 119 | 30.6 | 25.8 | 38.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
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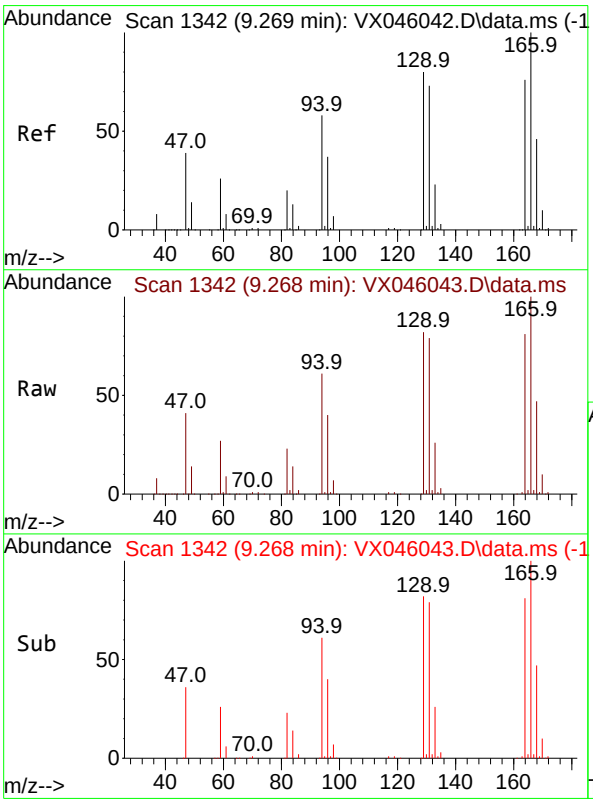
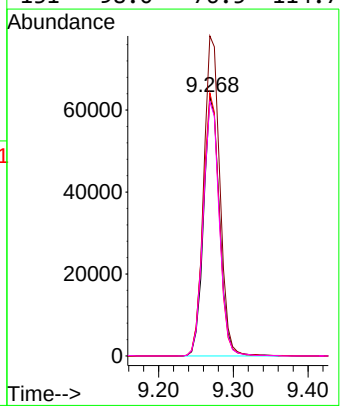
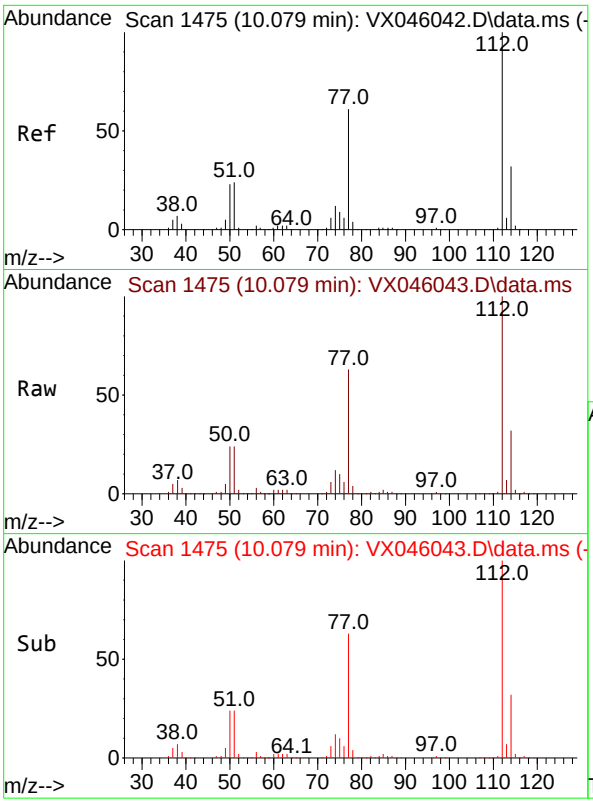



#64
Tetrachloroethene
Concen: 67.493 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:164 Resp: 93195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 123.4 | 105.0 | 157.6 |
| 129 | 101.4 | 83.5 | 125.3 |
| 131 | 98.0 | 76.5 | 114.7 |






#65
Chlorobenzene
Concen: 70.490 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:112 Resp: 29328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.9 | 25.4 | 38.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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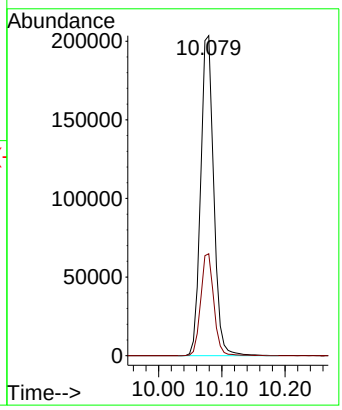
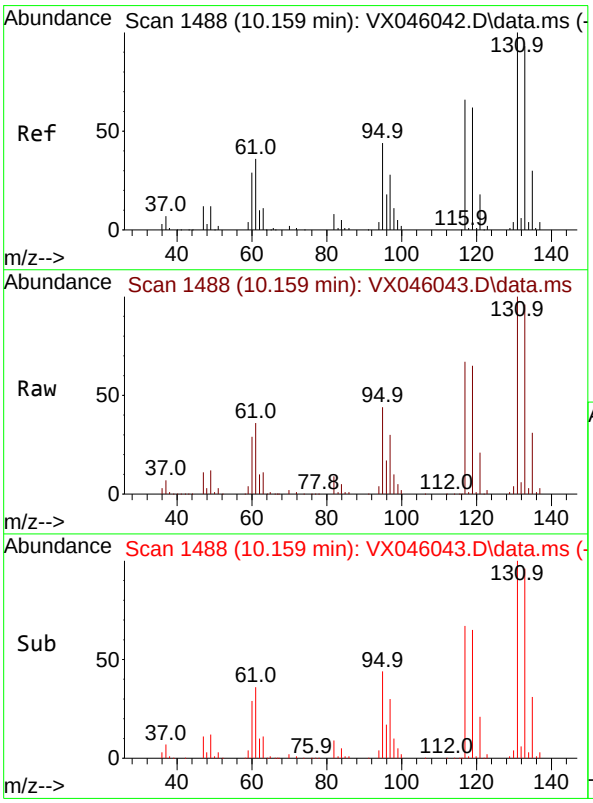
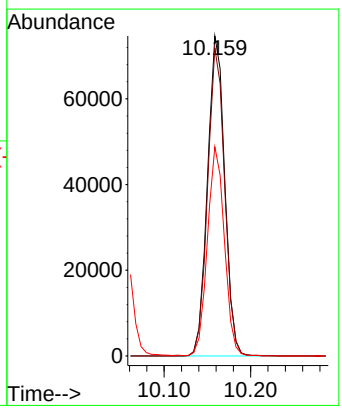


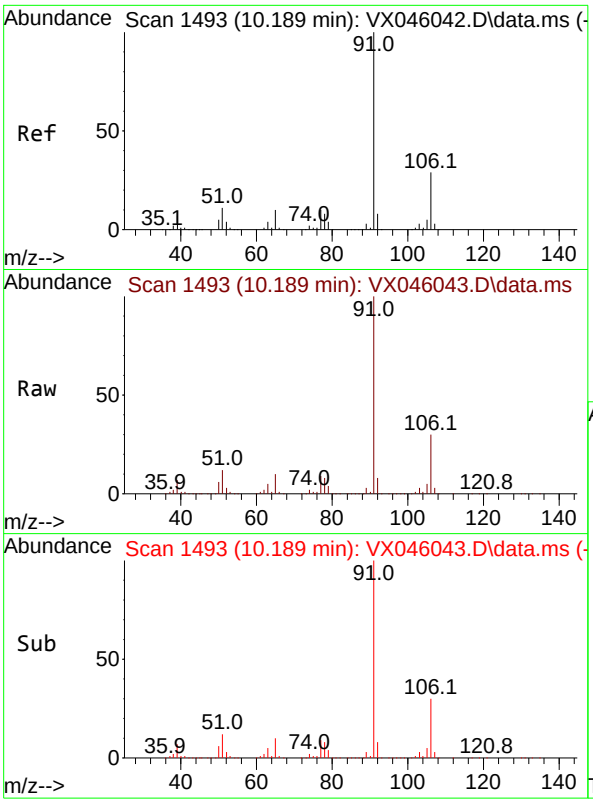




#66
1,1,1,2-Tetrachloroethane
Concen: 74.349 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:131 Resp: 103177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.3 | 47.3 | 141.9 |
| 119 | 64.5 | 31.6 | 95.0 |

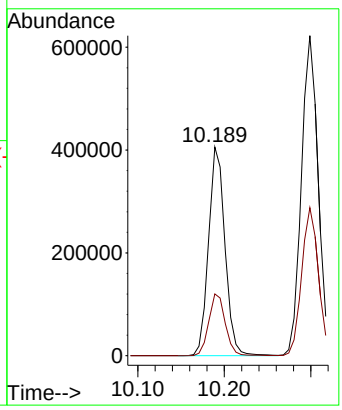





#67
Ethyl Benzene
Concen: 75.444 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 91 Resp: 53512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.6 | 23.4 | 35.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
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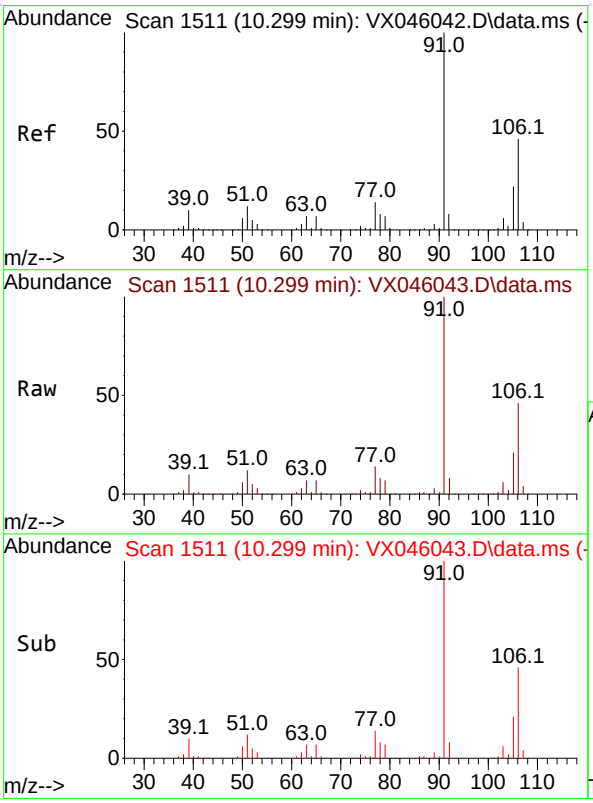
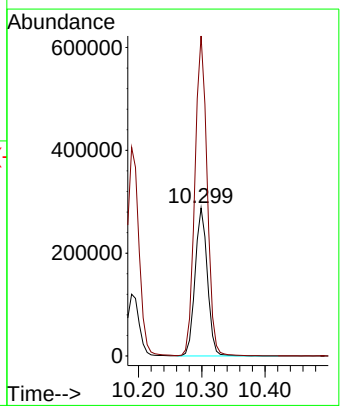
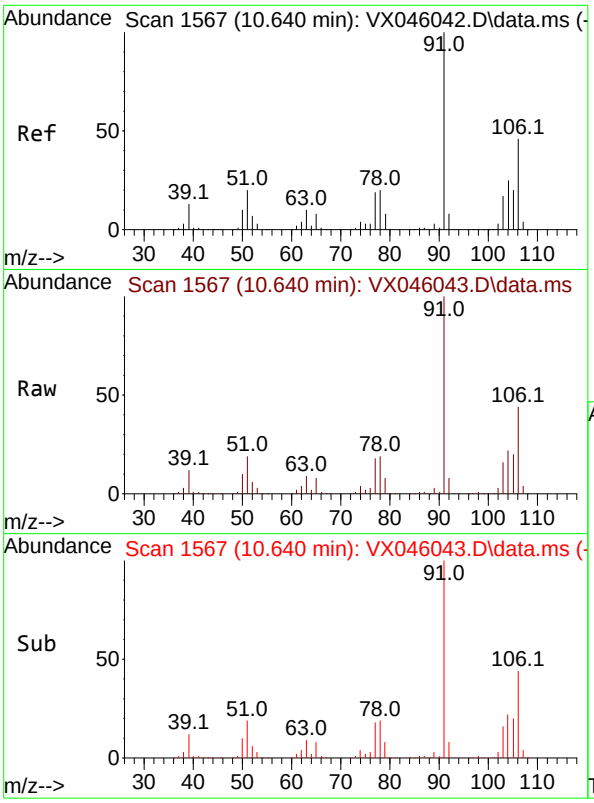



#68
m/p-Xylenes
Concen: 152.181 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:106 Resp: 389935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.8 | 171.2 | 256.8 |

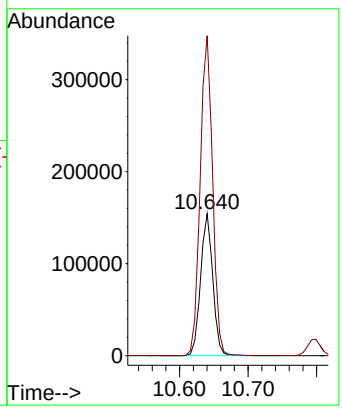





#69
o-Xylene
Concen: 73.890 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:106 Resp: 19083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 230.3 | 112.7 | 338.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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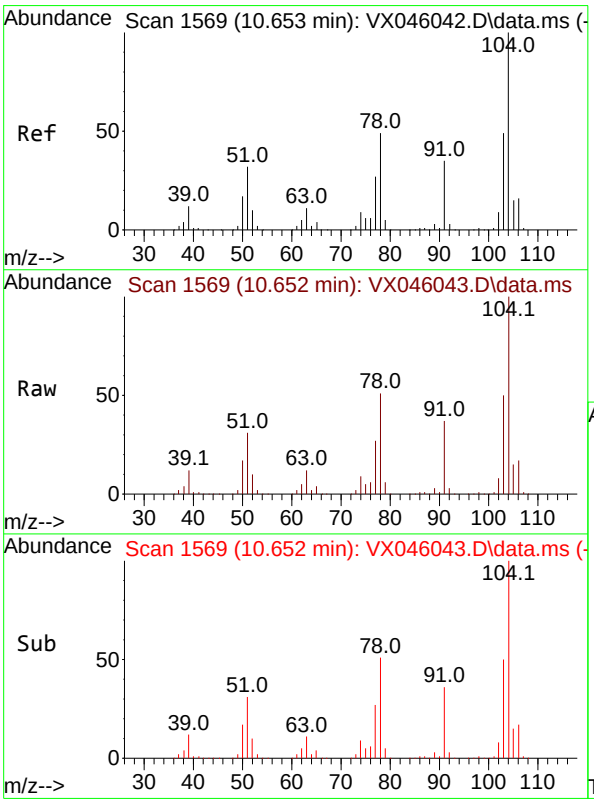
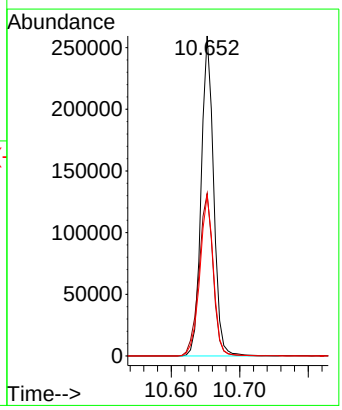
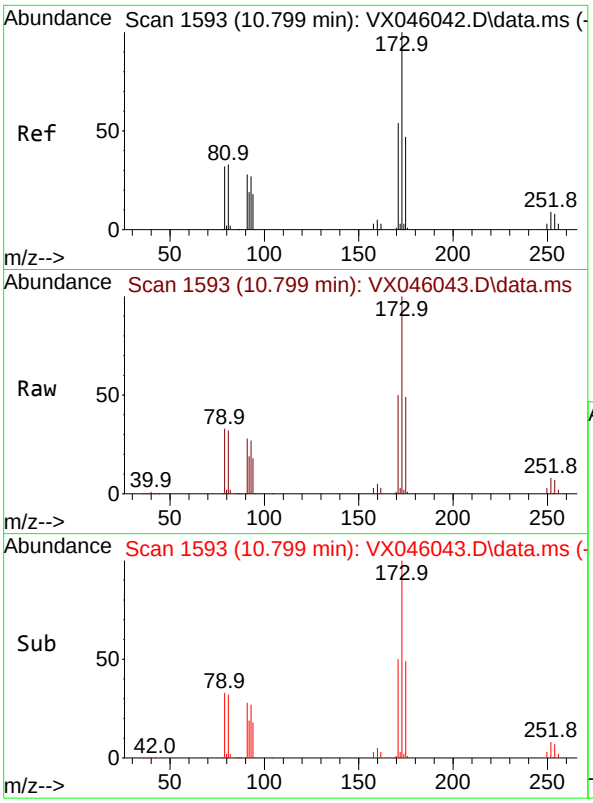



#70
Styrene
Concen: 79.411 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:104 Resp: 328195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 57.4 | 45.7 | 68.5 |
| 103 | 54.8 | 43.7 | 65.5 |

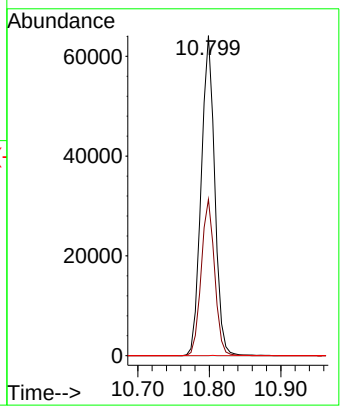





#71
Bromoform
Concen: 80.927 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:173 Resp: 8435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.3 | 23.4 | 70.0 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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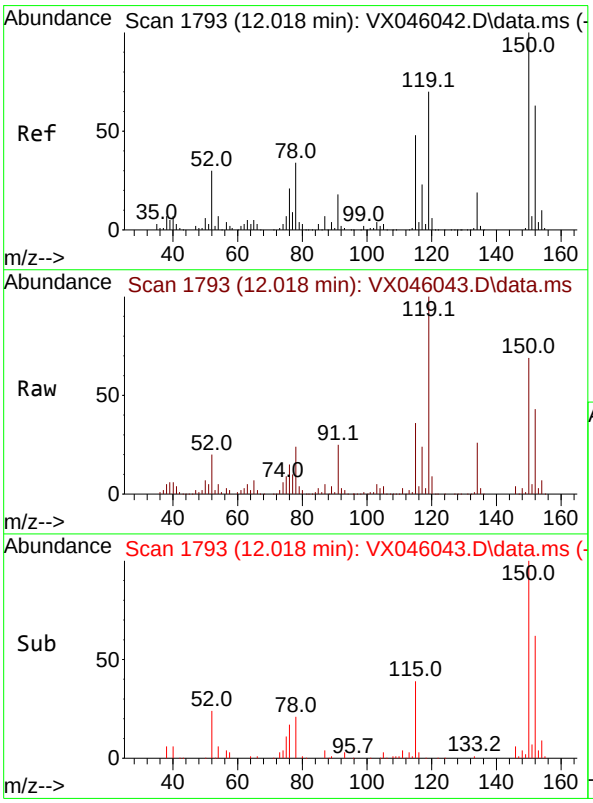
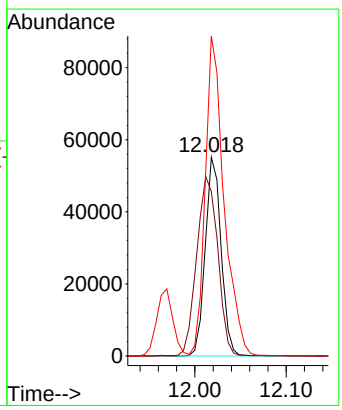
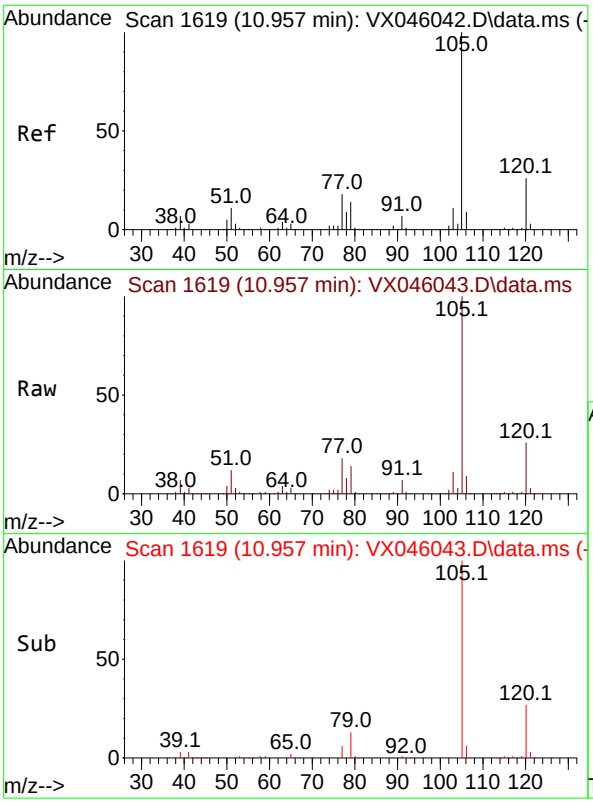



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:152 Resp: 66369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 120.4 | 46.9 | 140.7 |
| 150 | 190.4 | 0.0 | 351.0 |






#73
Isopropylbenzene
Concen: 71.083 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:105 Resp: 51452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.4 | 12.8 | 38.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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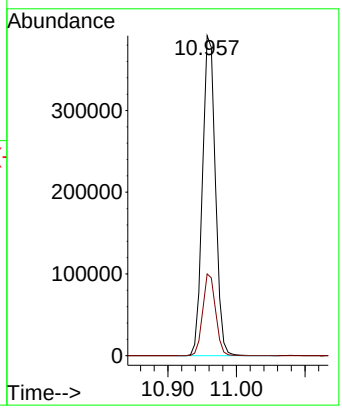
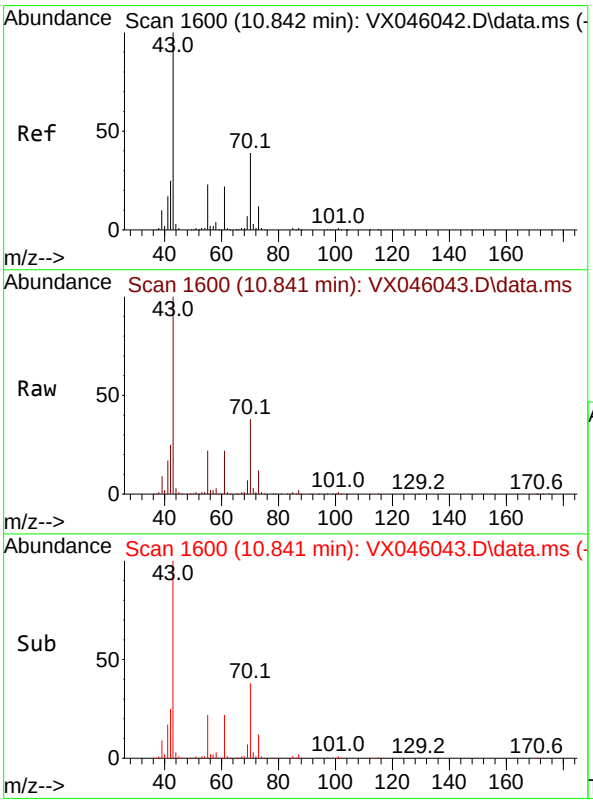
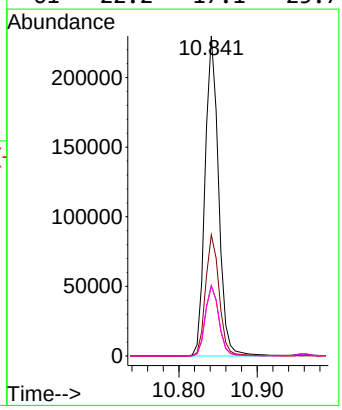


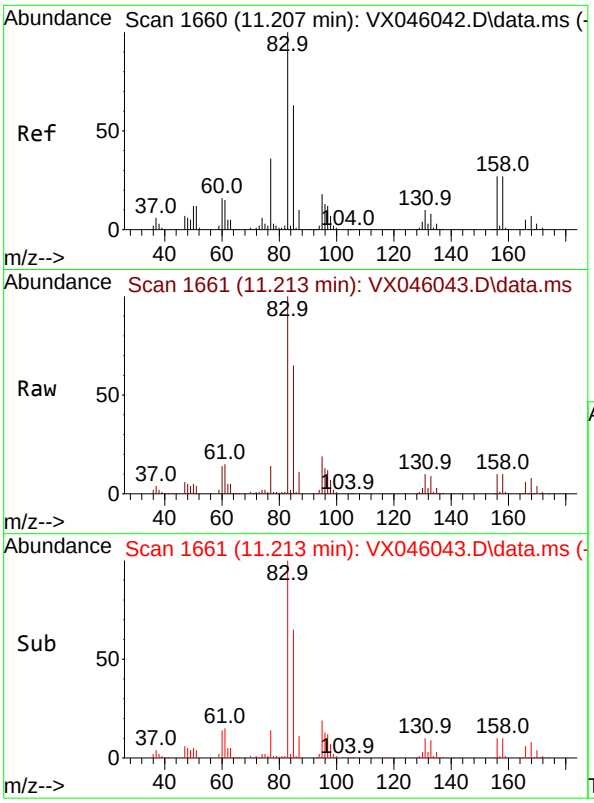




#74
N-amyl acetate
Concen: 76.073 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 274553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 38.2 | 30.9 | 46.3 |
| 55 | 22.5 | 18.7 | 28.1 |
| 61 | 22.2 | 17.1 | 25.7 |

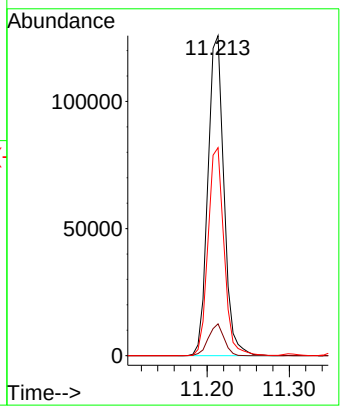





#75
1,1,2,2-Tetrachloroethane
Concen: 66.207 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 83 Resp: 17048

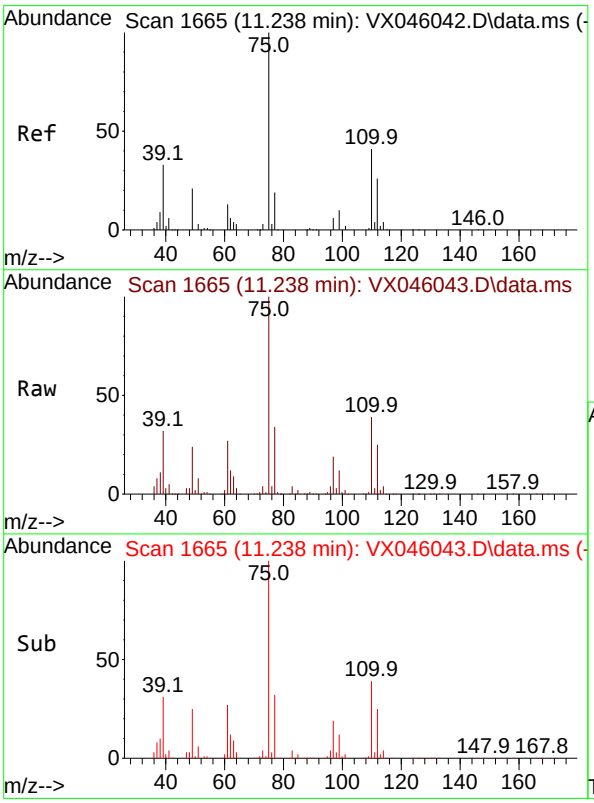
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.7 | 5.0 | 14.9 |
| 85 | 64.9 | 31.9 | 95.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

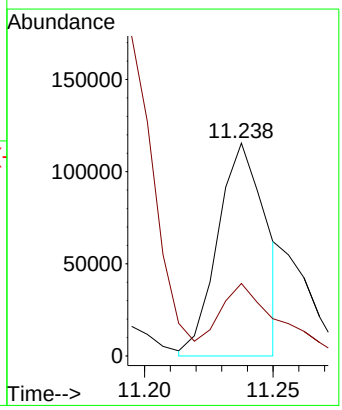
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

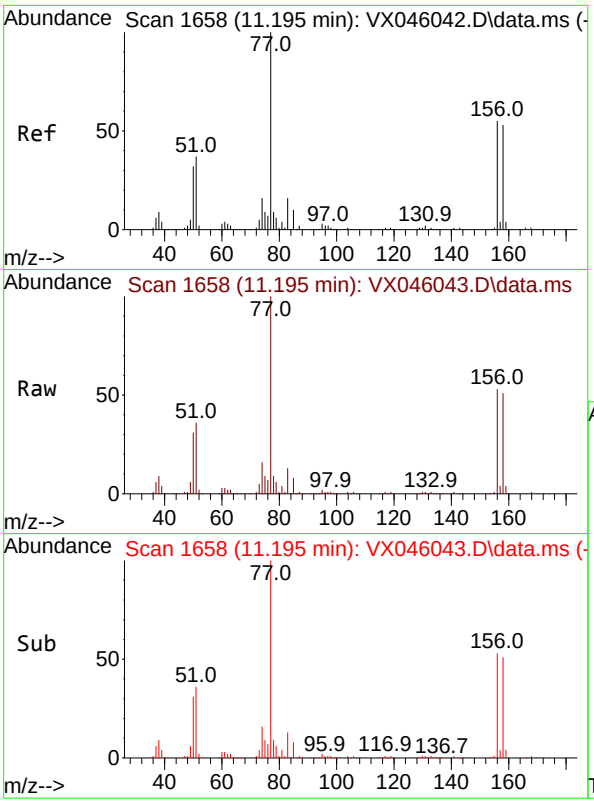



#76
1,2,3-Trichloropropane
Concen: 54.277 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 150182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 42.2 | 20.5 | 61.5 |

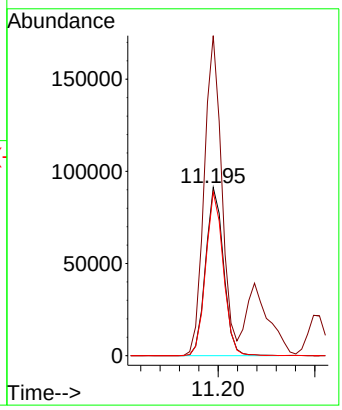





#77
Bromobenzene
Concen: 69.959 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:156 Resp: 11715

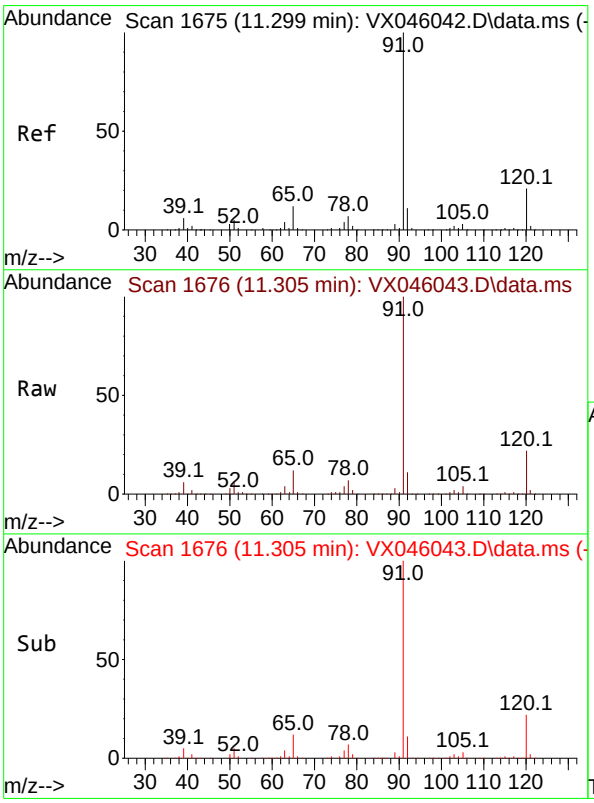
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 187.4 | 92.8 | 278.3 |
| 158 | 96.1 | 48.8 | 146.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

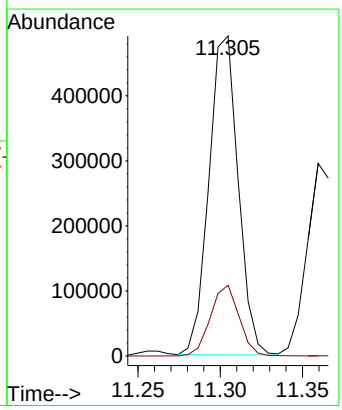
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

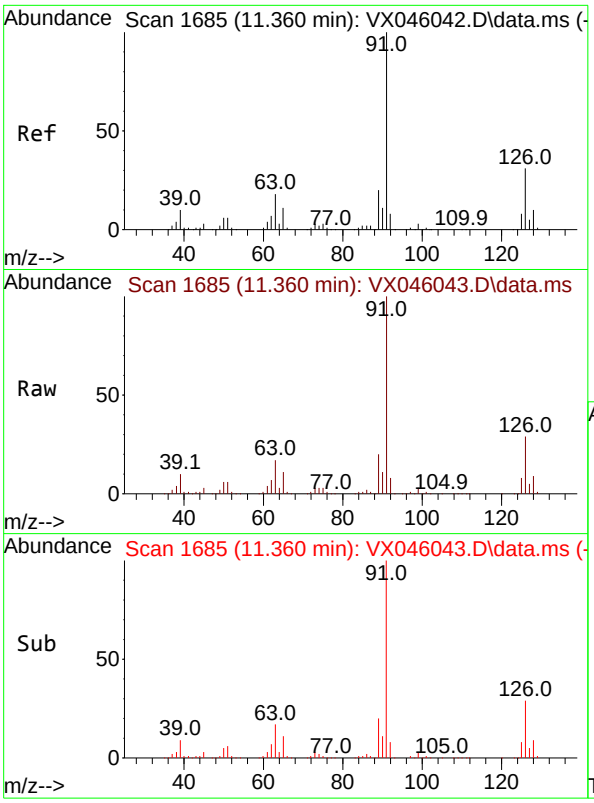



#78
n-propylbenzene
Concen: 74.974 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 91 Resp: 608332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.7 | 10.8 | 32.4 |

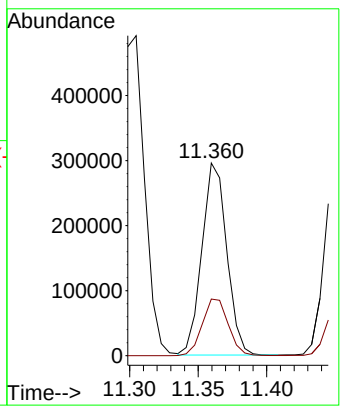





#79
2-Chlorotoluene
Concen: 68.100 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 91 Resp: 37239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.9 | 15.6 | 46.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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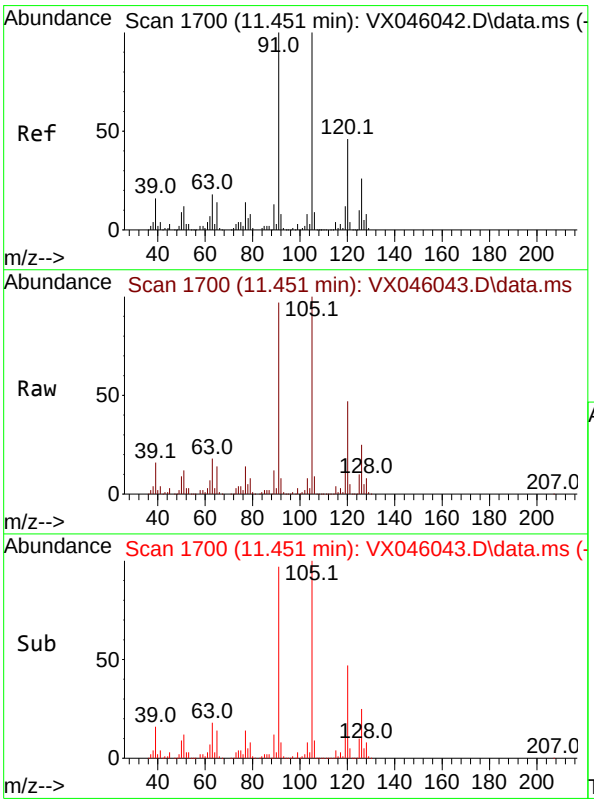
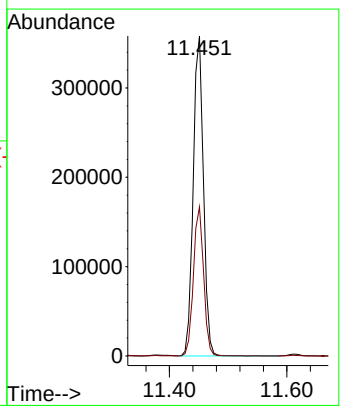
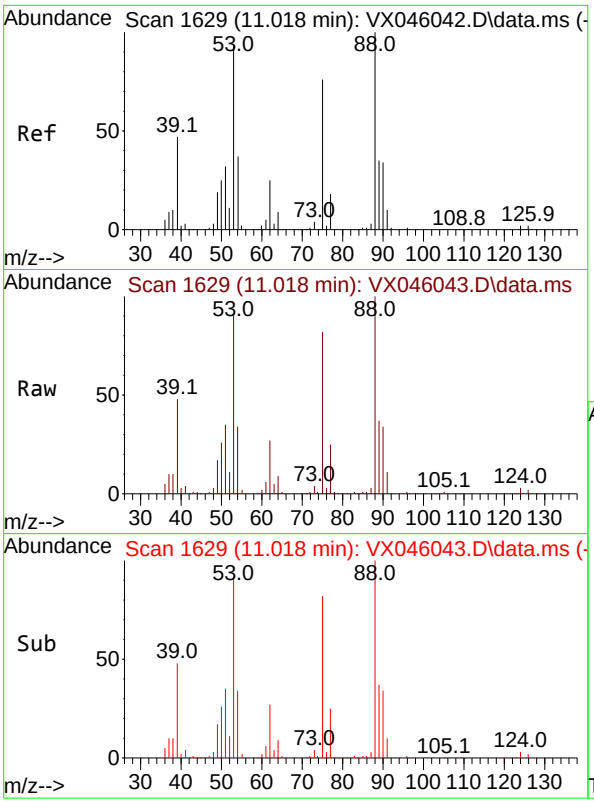



#80
1,3,5-Trimethylbenzene
Concen: 71.903 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:105 Resp: 432096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.3 | 23.1 | 69.2 |






#81
trans-1,4-Dichloro-2-butene
Concen: 81.820 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

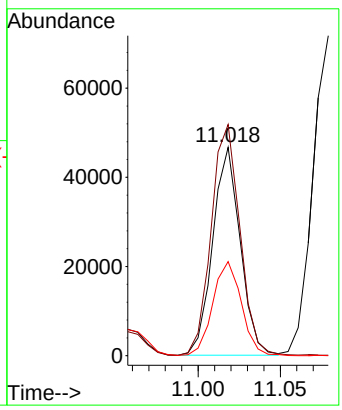
Tgt Ion: 75 Resp: 5439

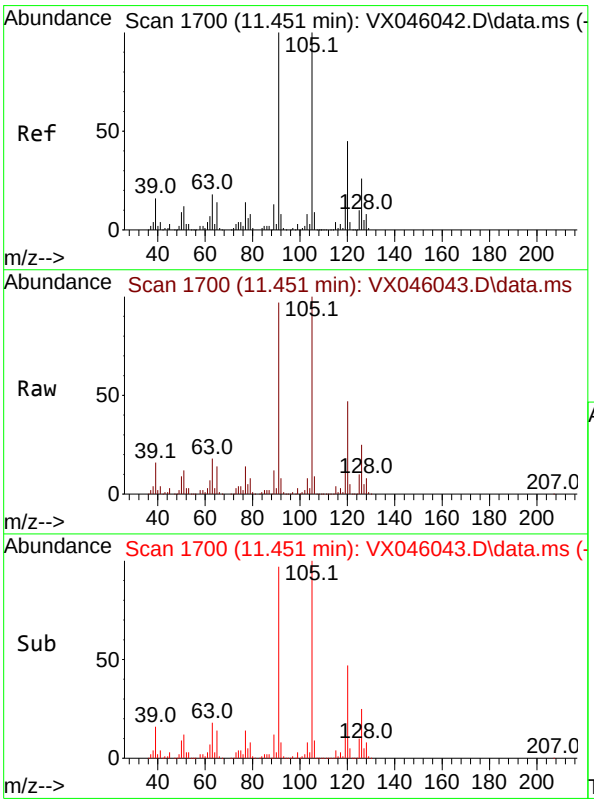
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 115.8 | 100.5 | 150.7 |
| 89 | 47.0 | 37.0 | 55.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

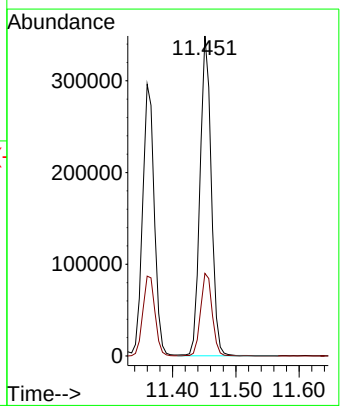


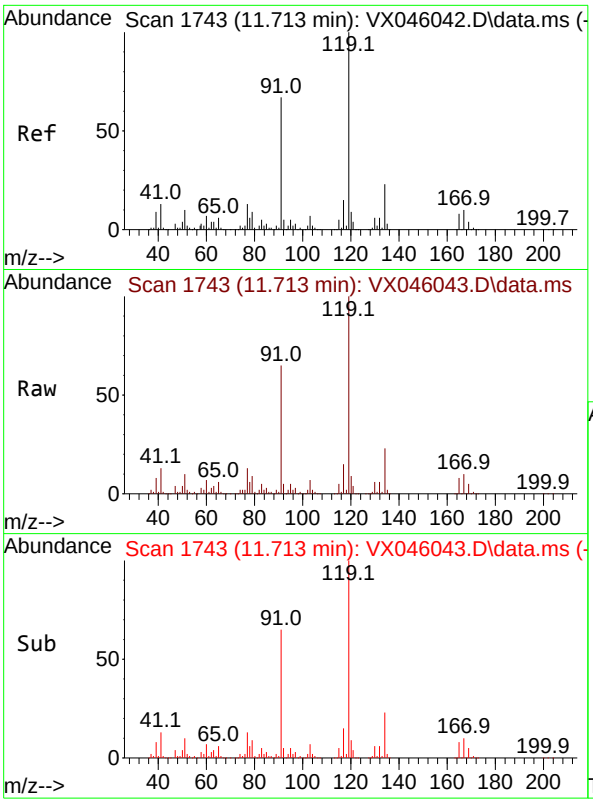




#82
4-Chlorotoluene
Concen: 71.890 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 91 Resp: 432053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 26.5 | 13.3 | 39.8 |

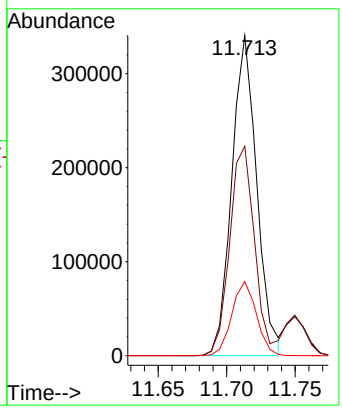





#83
tert-Butylbenzene
Concen: 73.197 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:119 Resp: 43201

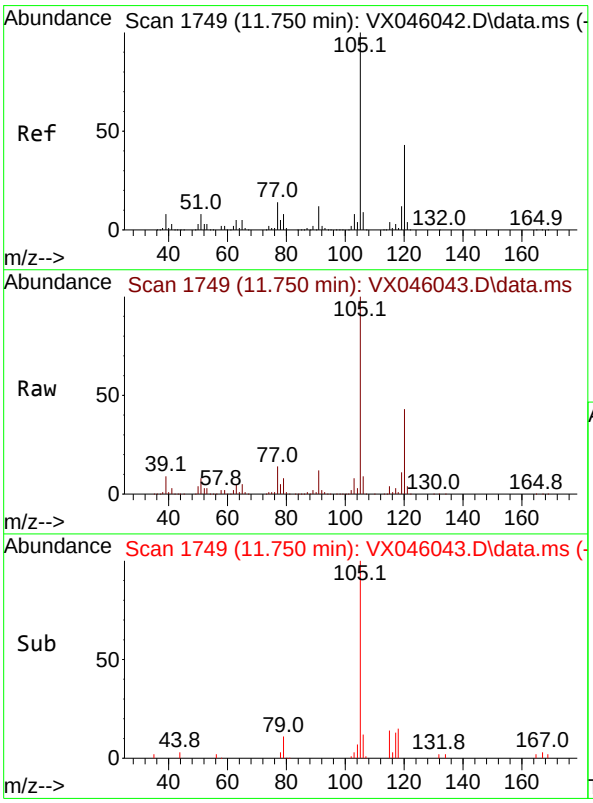
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.4 | 32.9 | 98.7 |
| 134 | 22.8 | 11.4 | 34.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

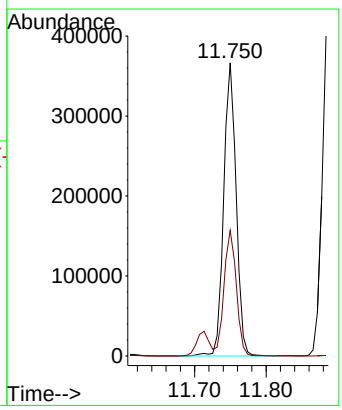
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

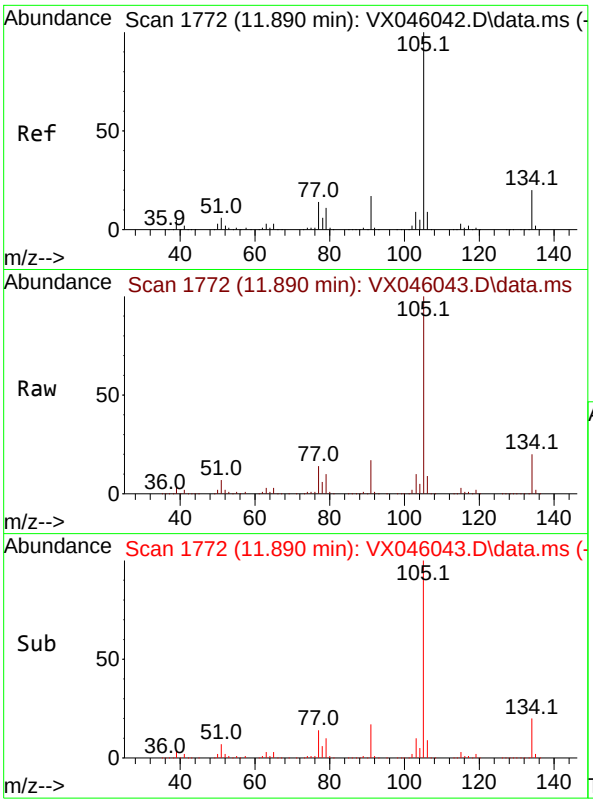



#84
1,2,4-Trimethylbenzene
Concen: 73.758 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:105 Resp: 442728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.4 | 21.2 | 63.6 |

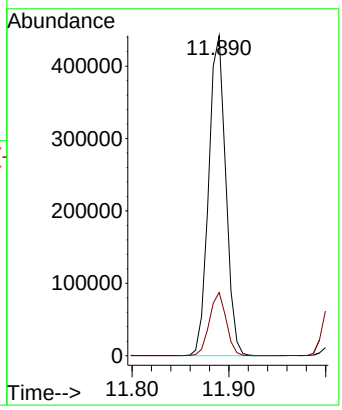





#85
sec-Butylbenzene
Concen: 74.188 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:105 Resp: 54359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.4 | 9.7 | 29.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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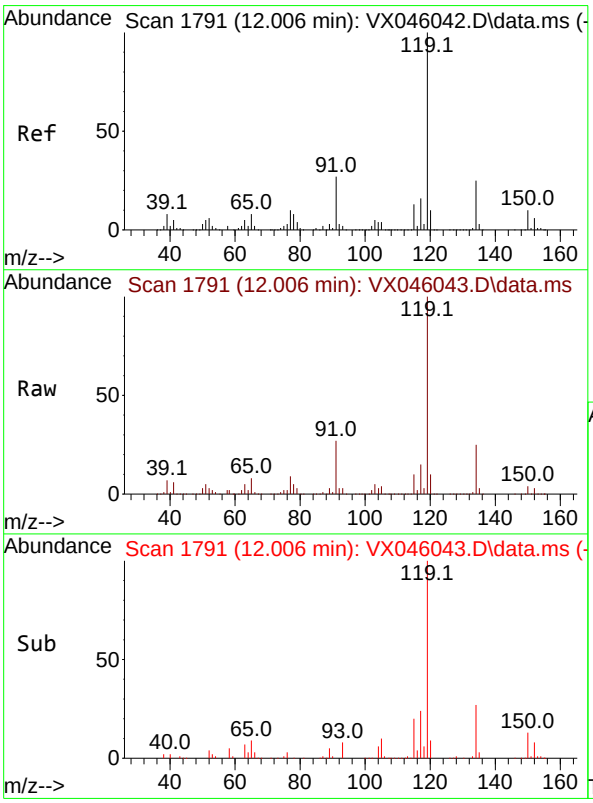
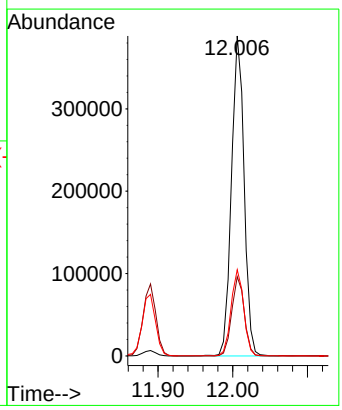
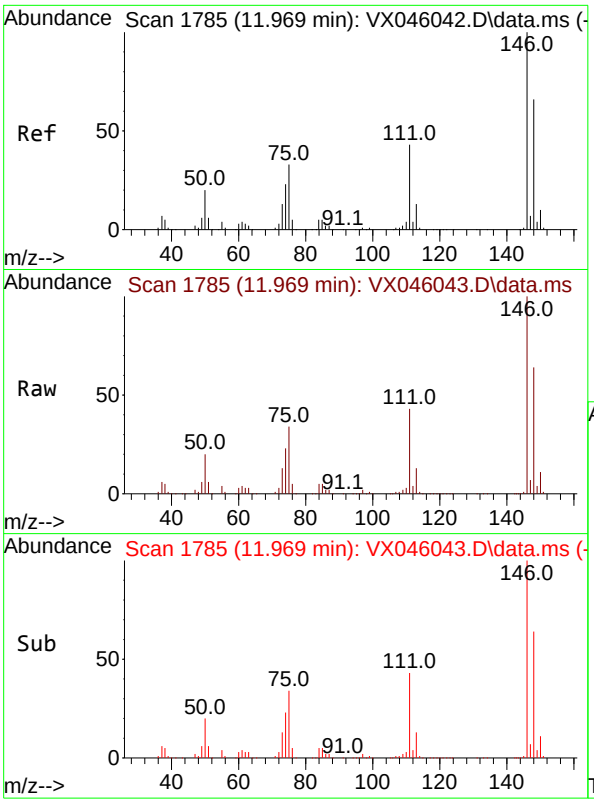



#86
p-Isopropyltoluene
Concen: 77.393 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:119 Resp: 457898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.6 | 12.5 | 37.5 |
| 91 | 26.8 | 13.8 | 41.4 |

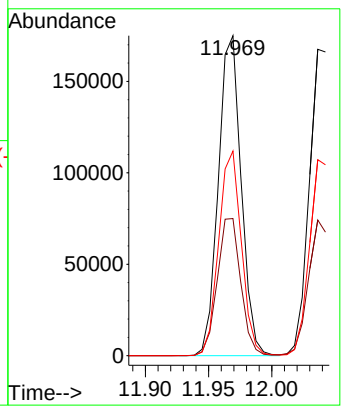





#87
1,3-Dichlorobenzene
Concen: 70.449 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:146 Resp: 21975

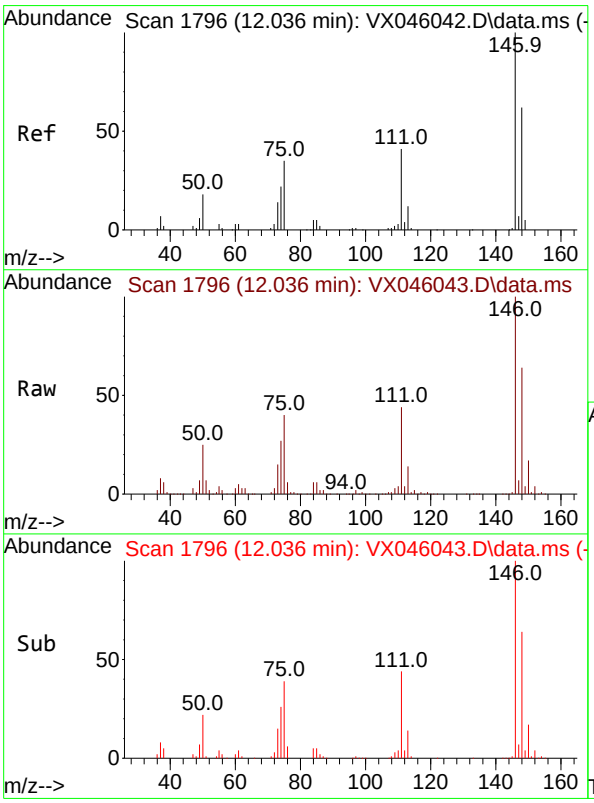
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.1 | 22.1 | 66.3 |
| 148 | 63.5 | 32.1 | 96.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

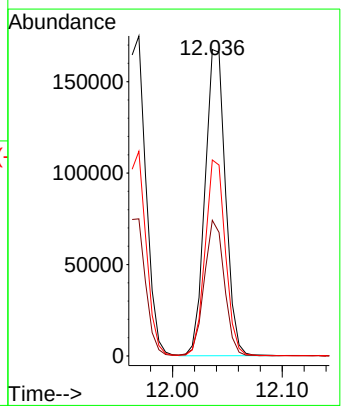
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

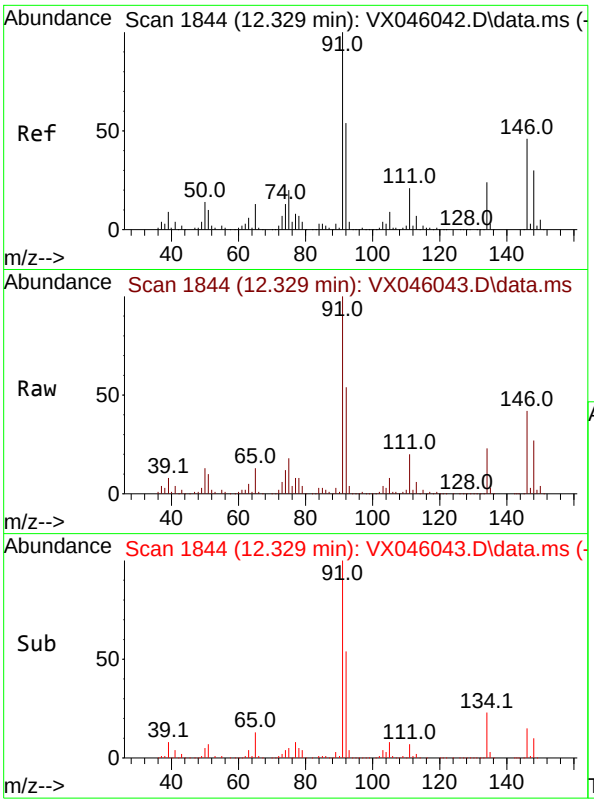



#88
1,4-Dichlorobenzene
Concen: 71.190 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:146 Resp: 217613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.4 | 21.3 | 63.9 |
| 148 | 63.2 | 31.9 | 95.5 |

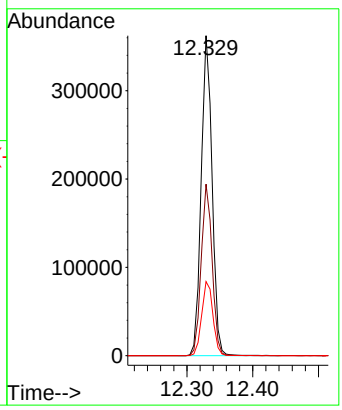





#89
n-Butylbenzene
Concen: 80.996 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 91 Resp: 41660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.0 | 26.9 | 80.7 |
| 134 | 24.0 | 11.8 | 35.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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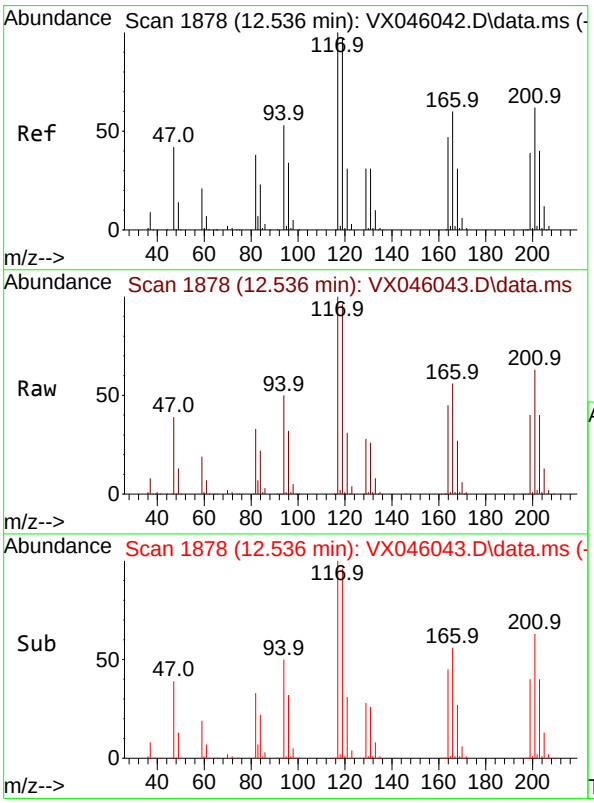
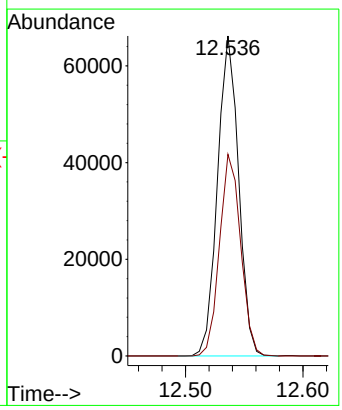
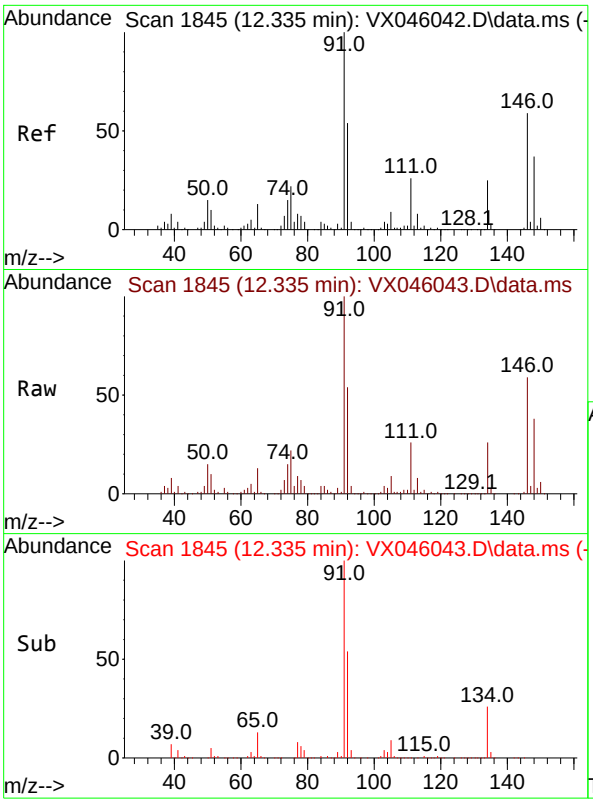



#90
Hexachloroethane
Concen: 74.978 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:117 Resp: 82528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.3 | 31.6 | 94.7 |

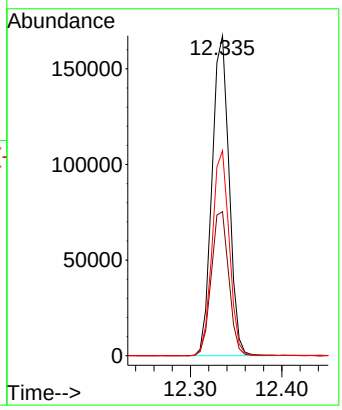





#91
1,2-Dichlorobenzene
Concen: 71.367 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:146 Resp: 21683

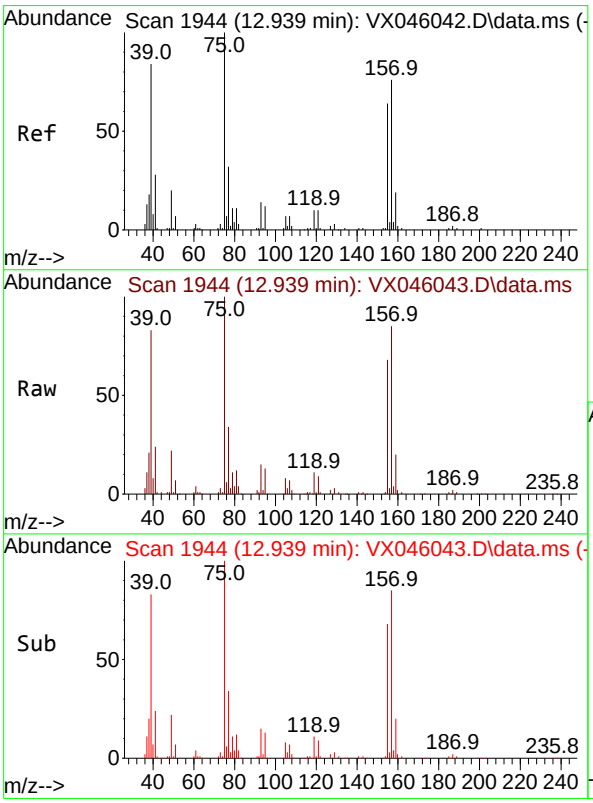
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.2 | 22.4 | 67.3 |
| 148 | 64.0 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

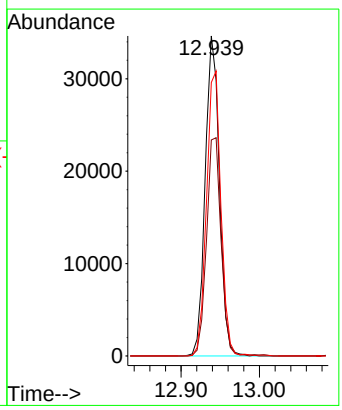
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

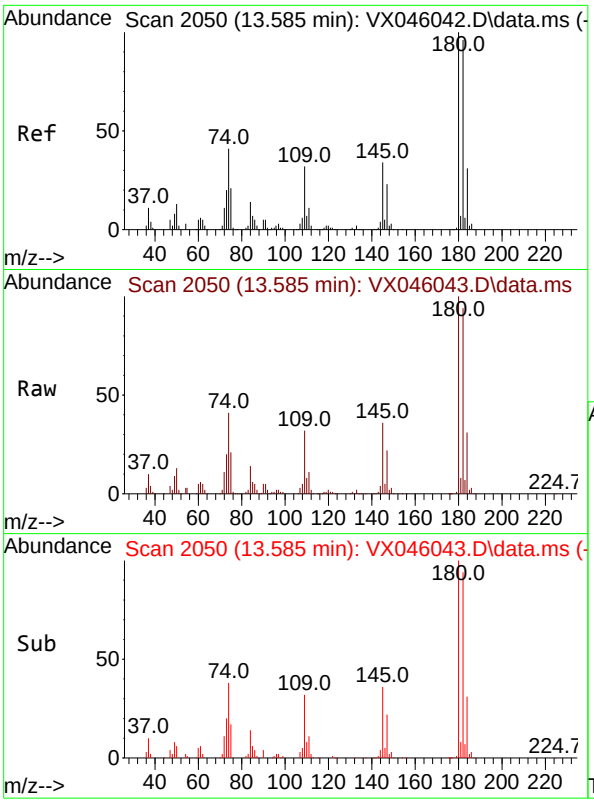



#92
1,2-Dibromo-3-Chloropropane
Concen: 74.512 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 43673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 69.4 | 34.9 | 104.8 |
| 157 | 90.1 | 43.8 | 131.4 |

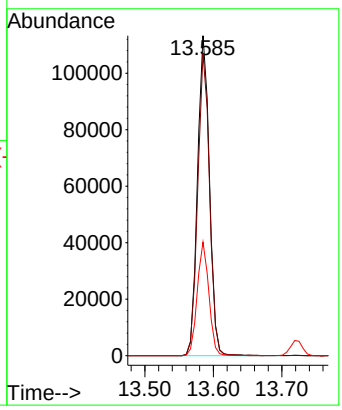





#93
1,2,4-Trichlorobenzene
Concen: 82.605 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:180 Resp: 13743

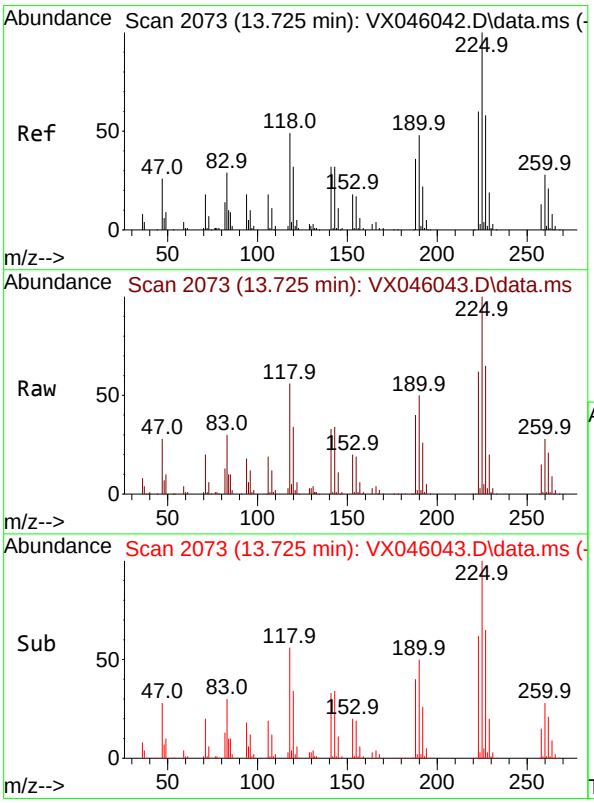
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.7 | 47.9 | 143.8 |
| 145 | 34.6 | 17.1 | 51.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

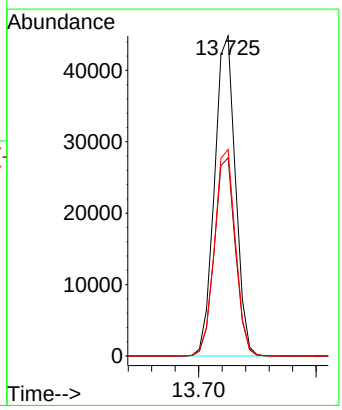
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

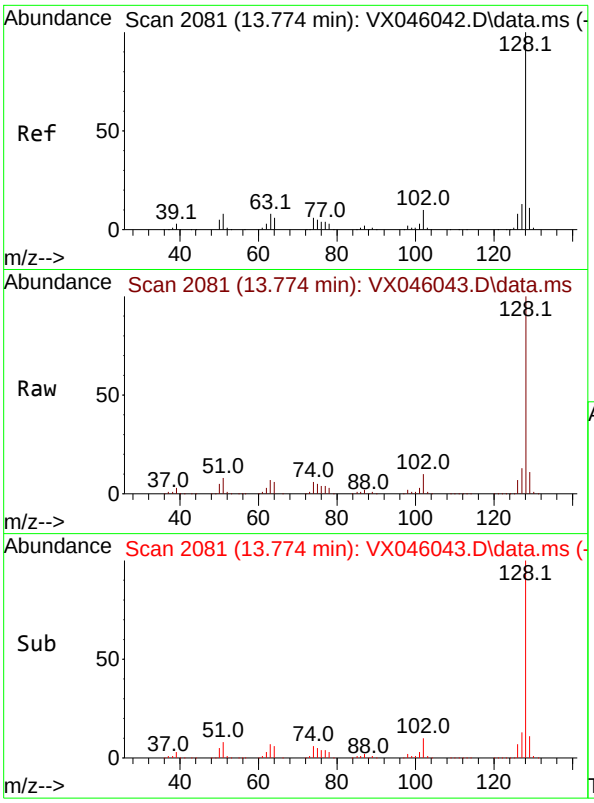



#94
Hexachlorobutadiene
Concen: 71.314 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:225 Resp: 55494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.3 | 30.8 | 92.4 |
| 227 | 64.9 | 30.9 | 92.7 |

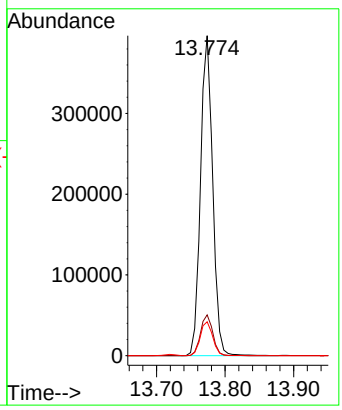





#95
Naphthalene
Concen: 80.842 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:128 Resp: 48977

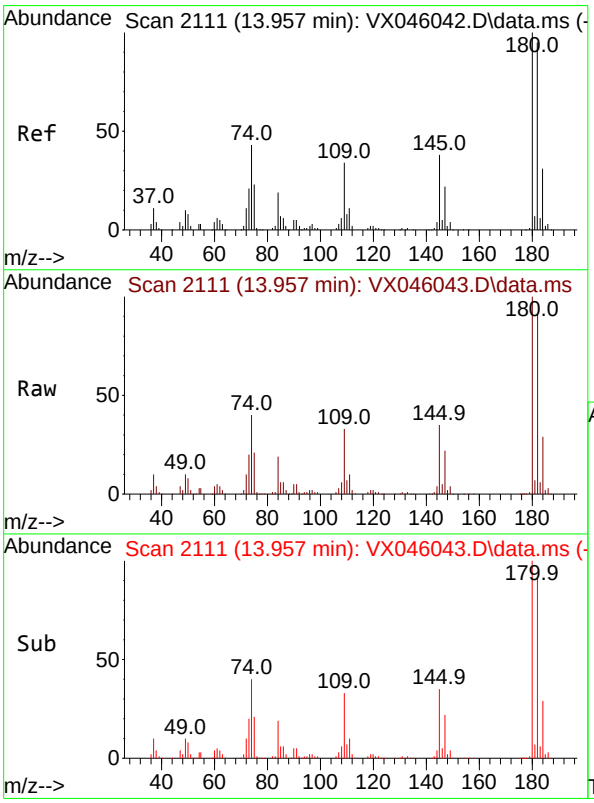
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.4 | 15.6 |
| 129 | 10.9 | 8.6 | 13.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

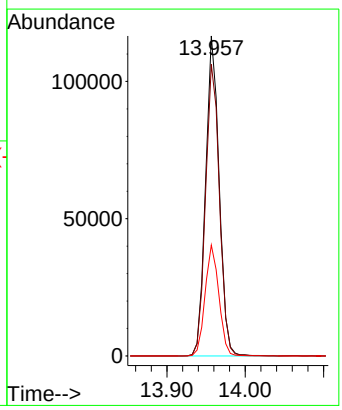
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025




#96
1,2,3-Trichlorobenzene
Concen: 79.981 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:180 Resp: 139525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.7 | 47.8 | 143.3 |
| 145 | 35.3 | 18.1 | 54.3 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
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 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.550 | 168 | 82963 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 144975 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 128557 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 60345 | 50.000 | ug/l | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 231952 | 93.983 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 187.960%# | | | |
| 35) Dibromofluoromethane | 5.385 | 113 | 160168 | 98.562 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 197.120%# | | | |
| 50) Toluene-d8 | 8.647 | 98 | 554390 | 101.252 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 202.500%# | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 217536 | 109.174 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 218.340%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 217793 | 118.929 | ug/l | 98 |
| 3) Chloromethane | 1.307 | 50 | 196843 | 109.161 | ug/l | 99 |
| 4) Vinyl Chloride | 1.374 | 62 | 187924 | 118.953 | ug/l | 100 |
| 5) Bromomethane | 1.593 | 94 | 83008 | 103.625 | ug/l | 95 |
| 6) Chloroethane | 1.660 | 64 | 78806 | 96.822 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.868 | 101 | 245108 | 101.851 | ug/l | 97 |
| 8) Diethyl Ether | 2.136 | 74 | 88441 | 111.791 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 2.313 | 101 | 161404 | 112.243 | ug/l | 99 |
| 10) Methyl Iodide | 2.441 | 142 | 189843 | 112.441 | ug/l | 100 |
| 11) Tert butyl alcohol | 3.002 | 59 | 181238 | 616.119 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.307 | 96 | 155451 | 111.039 | ug/l | 99 |
| 13) Acrolein | 2.239 | 56 | 203257 | 594.872 | ug/l | 98 |
| 14) Allyl chloride | 2.654 | 41 | 297776 | 112.561 | ug/l | 98 |
| 15) Acrylonitrile | 3.069 | 53 | 484854 | 550.973 | ug/l | 98 |
| 16) Acetone | 2.392 | 43 | 460820 | 545.754 | ug/l | 98 |
| 17) Carbon Disulfide | 2.502 | 76 | 397353 | 122.499 | ug/l | 100 |
| 18) Methyl Acetate | 2.709 | 43 | 217885 | 108.099 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 3.117 | 73 | 557210 | 114.112 | ug/l | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 172035 | 100.579 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 154694 | 108.241 | ug/l | 96 |
| 22) Diisopropyl ether | 3.764 | 45 | 577610 | 116.858 | ug/l | 90 |
| 23) Vinyl Acetate | 3.721 | 43 | 2655751 | 608.005 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 320083 | 110.182 | ug/l | 99 |
| 25) 2-Butanone | 4.562 | 43 | 708463 | 581.292 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 258698 | 117.548 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 187835 | 108.994 | ug/l | 99 |
| 28) Bromochloromethane | 4.898 | 49 | 146923 | 95.108 | ug/l | 100 |
| 29) Tetrahydrofuran | 5.007 | 42 | 450456 | 569.081 | ug/l | 99 |
| 30) Chloroform | 5.087 | 83 | 323659 | 107.208 | ug/l | 95 |
| 31) Cyclohexane | 5.458 | 56 | 286312 | 116.934 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 295702 | 113.572 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 219731 | 116.462 | ug/l | 99 |
| 37) Ethyl Acetate | 4.715 | 43 | 274312 | 115.889 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 250916 | 115.760 | ug/l | 99 |
| 39) Methylcyclohexane | 7.373 | 83 | 286311 | 121.107 | ug/l | 97 |
| 40) Benzene | 6.031 | 78 | 642178 | 109.813 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.922 | 41 | 151424 | 115.139 ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 271992 | 112.492 ug/l | | 99 |
| 43) Isopropyl Acetate | 6.342 | 43 | 447871 | 123.780 ug/l | | 100 |
| 44) Trichloroethene | 7.117 | 130 | 157641 | 114.032 ug/l | | 96 |
| 45) 1,2-Dichloropropane | 7.428 | 63 | 164505 | 113.217 ug/l | | 99 |
| 46) Dibromomethane | 7.574 | 93 | 125846 | 109.869 ug/l | | 100 |
| 47) Bromodichloromethane | 7.818 | 83 | 258326 | 116.365 ug/l | | 98 |
| 48) Methyl methacrylate | 7.690 | 41 | 231040 | 124.356 ug/l | | 99 |
| 49) 1,4-Dioxane | 7.665 | 88 | 82800 | 2241.695 ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 1371275 | 577.831 ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 393323 | 113.430 ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 257233 | 138.001 ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 271054 | 124.658 ug/l | | 95 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 154932 | 110.551 ug/l | | 97 |
| 56) Ethyl methacrylate | 9.116 | 69 | 277921 | 127.968 ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 272814 | 109.813 ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.244 | 63 | 680608 | 697.344 ug/l | | 100 |
| 59) 2-Hexanone | 9.433 | 43 | 1028597 | 571.094 ug/l | | 99 |
| 60) Dibromochloromethane | 9.519 | 129 | 187497 | 122.915 ug/l | | 98 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 165634 | 115.087 ug/l | | 97 |
| 64) Tetrachloroethene | 9.269 | 164 | 132488 | 100.918 ug/l | | 96 |
| 65) Chlorobenzene | 10.080 | 112 | 429656 | 108.615 ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 152173 | 115.333 ug/l | | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 785121 | 116.421 ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 570913 | 234.349 ug/l | | 100 |
| 69) o-Xylene | 10.640 | 106 | 279906 | 113.990 ug/l | | 99 |
| 70) Styrene | 10.653 | 104 | 474254 | 120.694 ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 125986 | 127.128 ug/l | # | 99 |
| 73) Isopropylbenzene | 10.957 | 105 | 752337 | 114.312 ug/l | | 99 |
| 74) N-amyl acetate | 10.842 | 43 | 396877 | 120.944 ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 243532 | 104.018 ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 213744m | 84.960 ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 167934 | 110.297 ug/l | | 99 |
| 78) n-propylbenzene | 11.305 | 91 | 881218 | 119.448 ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 534560 | 107.514 ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 616477 | 112.825 ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 81372 | 134.609 ug/l | | 93 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 611736 | 111.948 ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 617473 | 115.065 ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 623456 | 114.236 ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 786293 | 118.023 ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 651531 | 121.113 ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 313100 | 110.394 ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 311752 | 112.167 ug/l | | 100 |
| 89) n-Butylbenzene | 12.329 | 91 | 605783 | 129.533 ug/l | | 100 |
| 90) Hexachloroethane | 12.536 | 117 | 123188 | 123.091 ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 308039 | 111.506 ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 64438 | 120.915 ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 203255 | 134.366 ug/l | | 98 |
| 94) Hexachlorobutadiene | 13.719 | 225 | 80558 | 113.857 ug/l | | 99 |
| 95) Naphthalene | 13.774 | 128 | 721236 | 130.929 ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 200379 | 126.331 ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
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 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

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

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

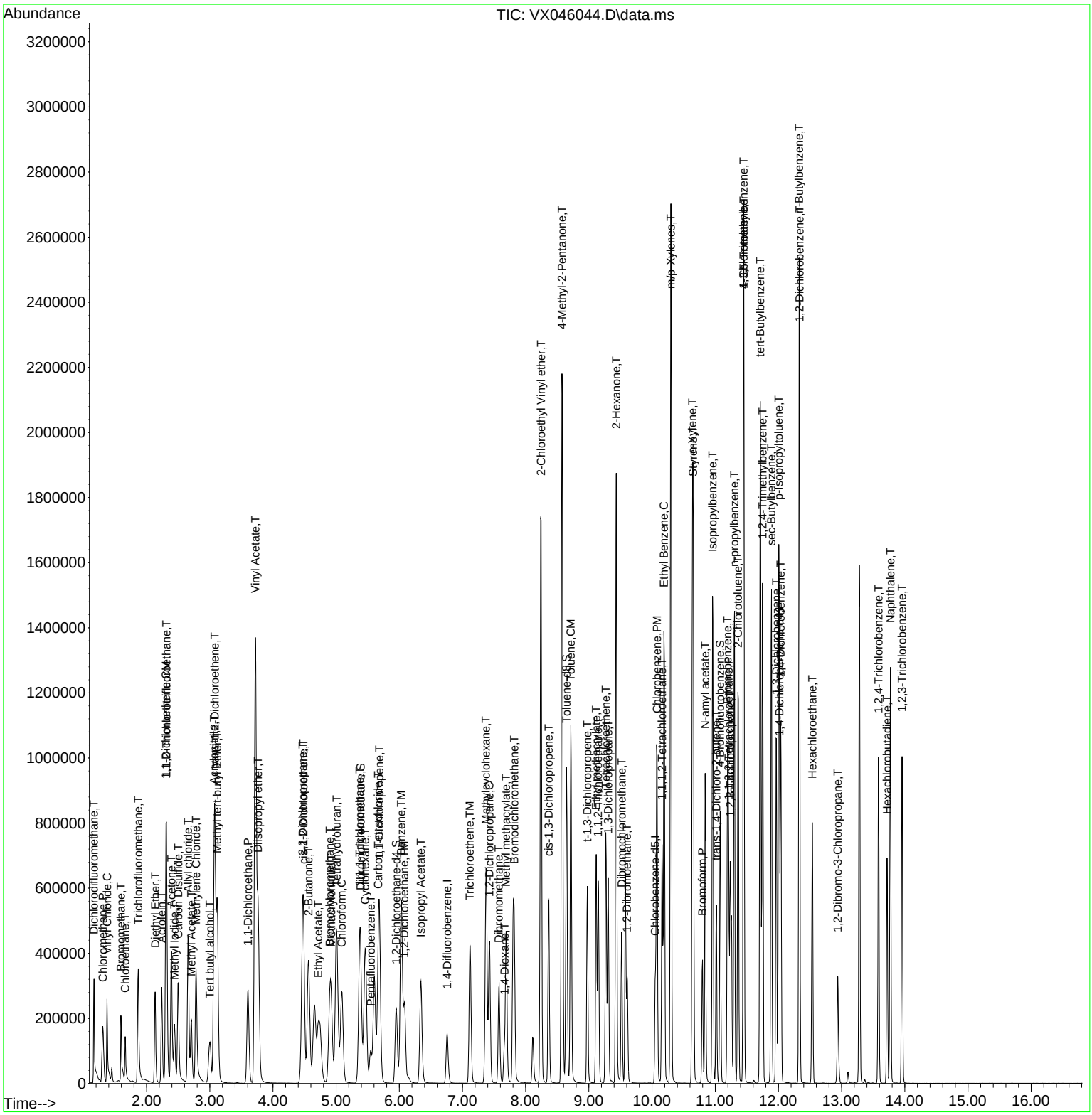
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

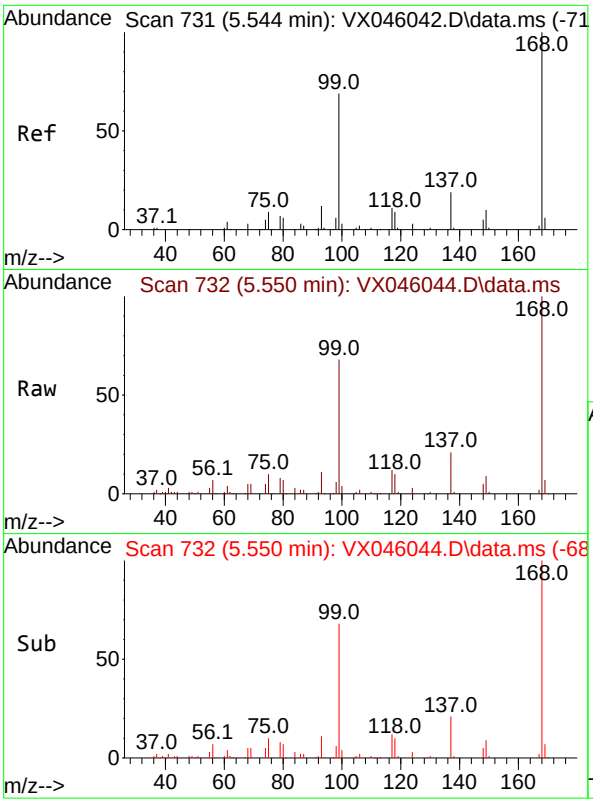
Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

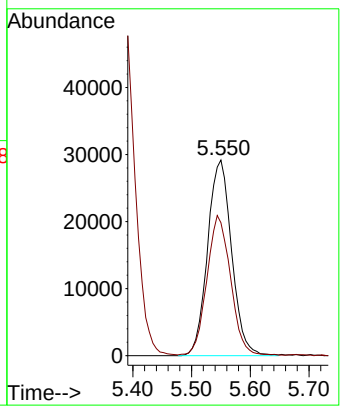





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:168 Resp: 8296

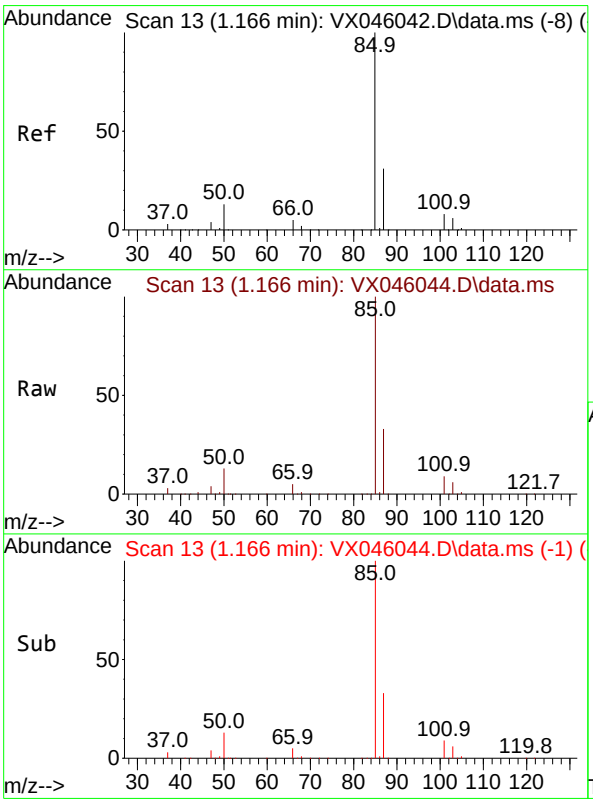
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 67.6 | 54.9 | 82.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

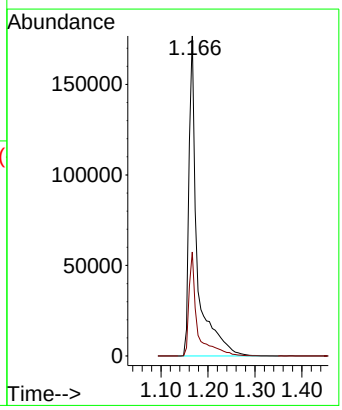
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

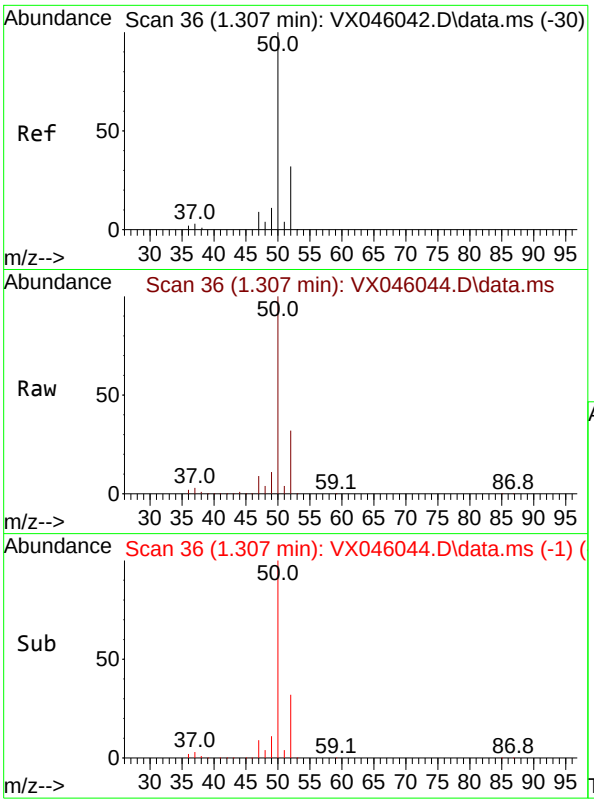



#2
Dichlorodifluoromethane
Concen: 118.929 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 85 Resp: 217793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 15.7 | 47.1 |






#3
Chloromethane
Concen: 109.161 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

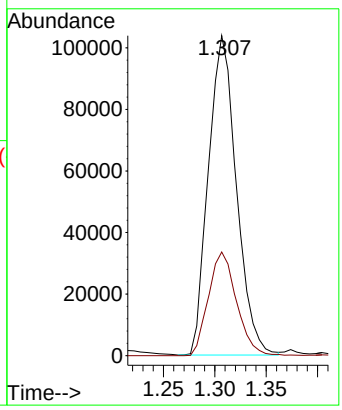
Tgt Ion: 50 Resp: 19684

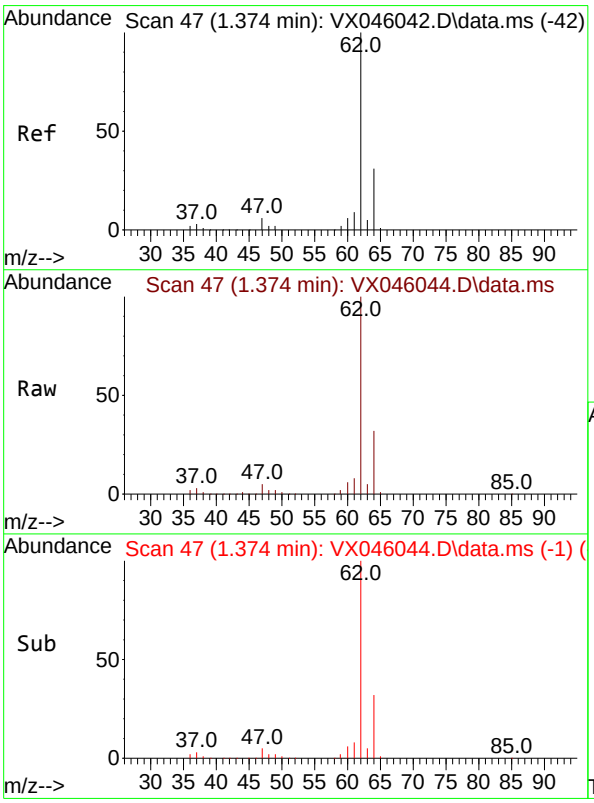
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.5 | 25.4 | 38.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

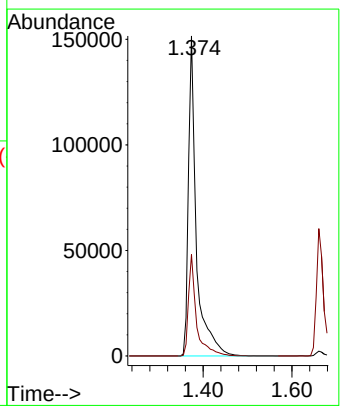


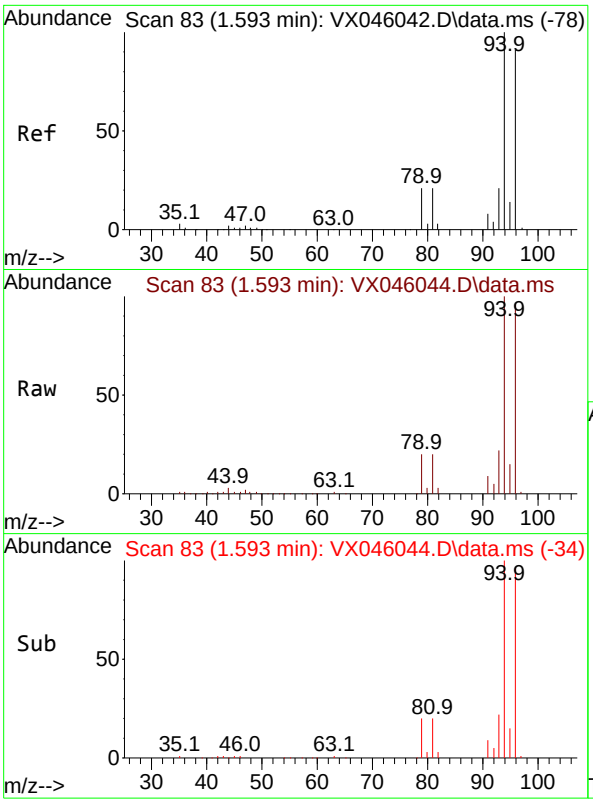




#4
Vinyl Chloride
Concen: 118.953 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 62 Resp: 187924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.7 | 25.2 | 37.8 |

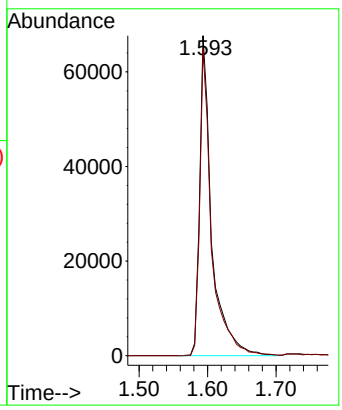





#5
Bromomethane
Concen: 103.625 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 94 Resp: 8300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.8 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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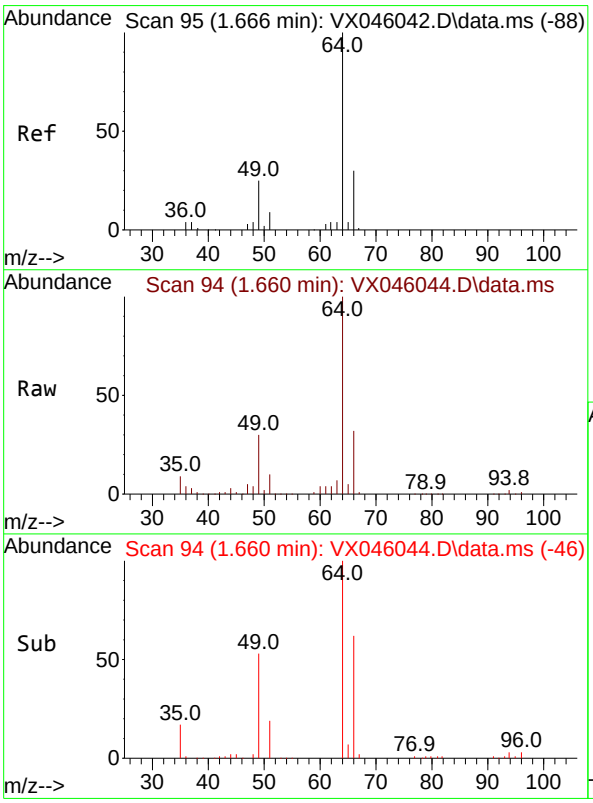
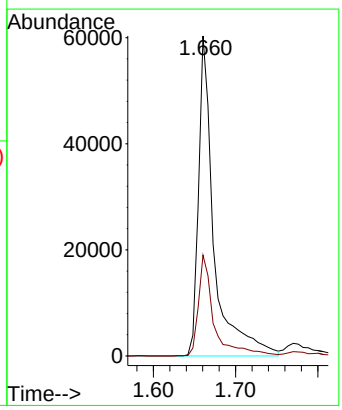
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

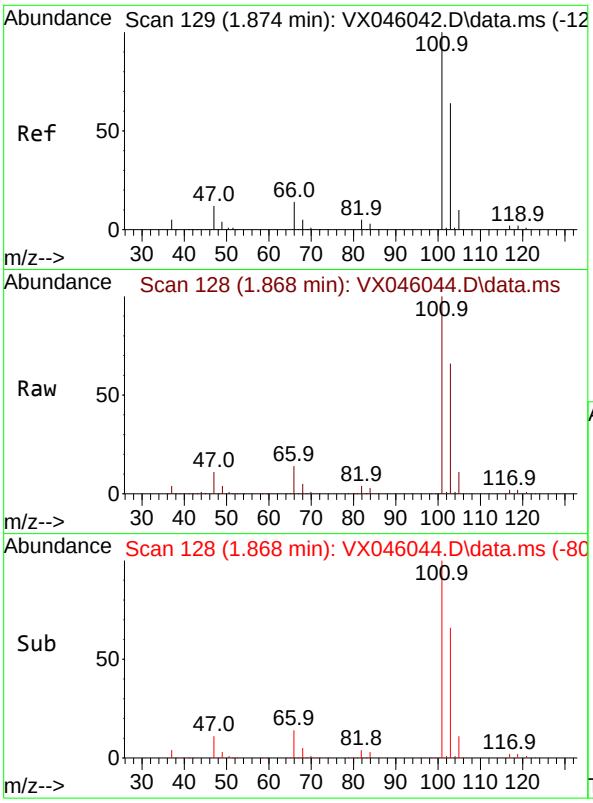



#6
Chloroethane
Concen: 96.822 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 64 Resp: 78806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.3 | 24.3 | 36.5 |

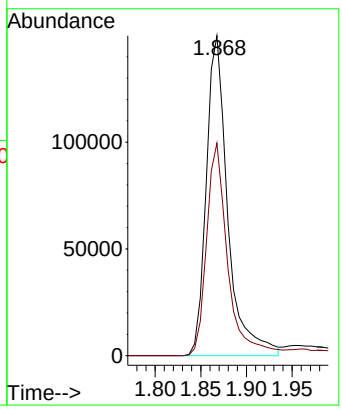





#7
Trichlorofluoromethane
Concen: 101.851 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:101 Resp: 24510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.4 | 51.0 | 76.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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Reviewed By :John Carlone 05/06/2025
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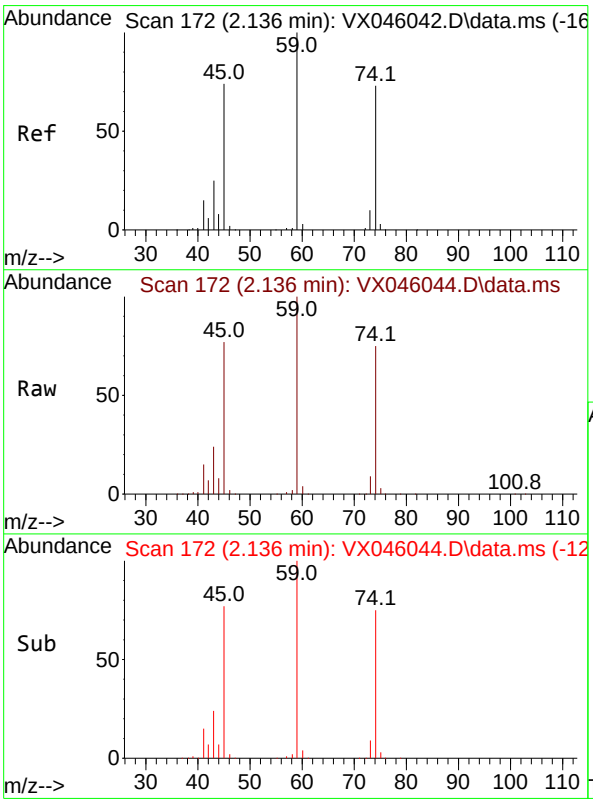
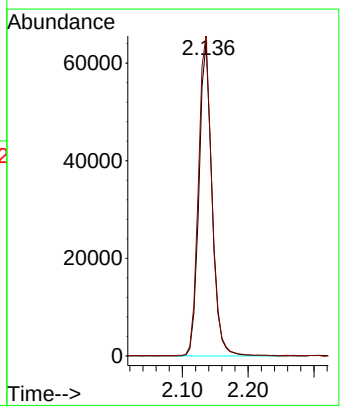
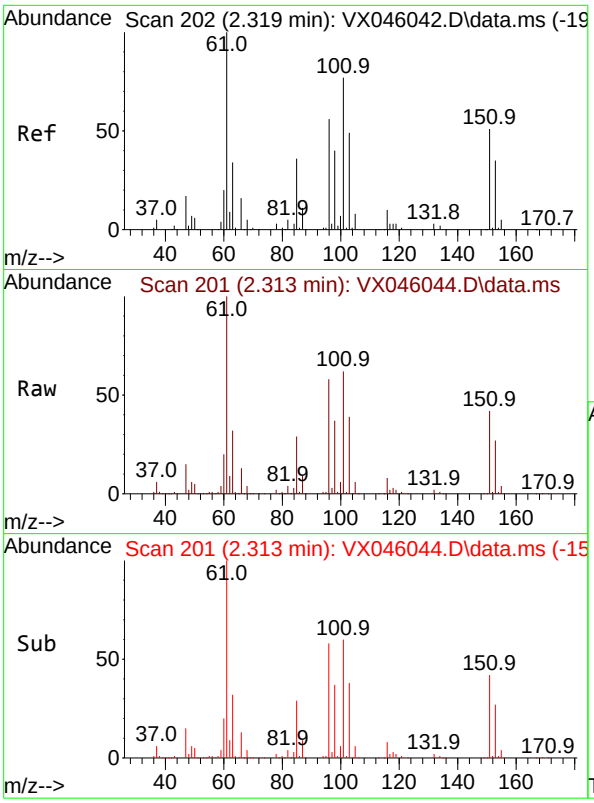



#8
Diethyl Ether
Concen: 111.791 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 74 Resp: 88441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 104.7 | 54.9 | 164.8 |

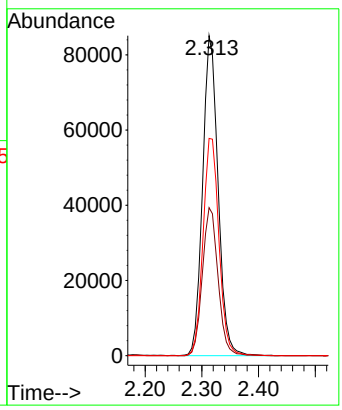





#9
1,1,2-Trichlorotrifluoroethane
Concen: 112.243 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:101 Resp: 16140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.8 | 38.6 | 58.0 |
| 151 | 69.8 | 55.2 | 82.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

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Reviewed By :John Carlone 05/06/2025
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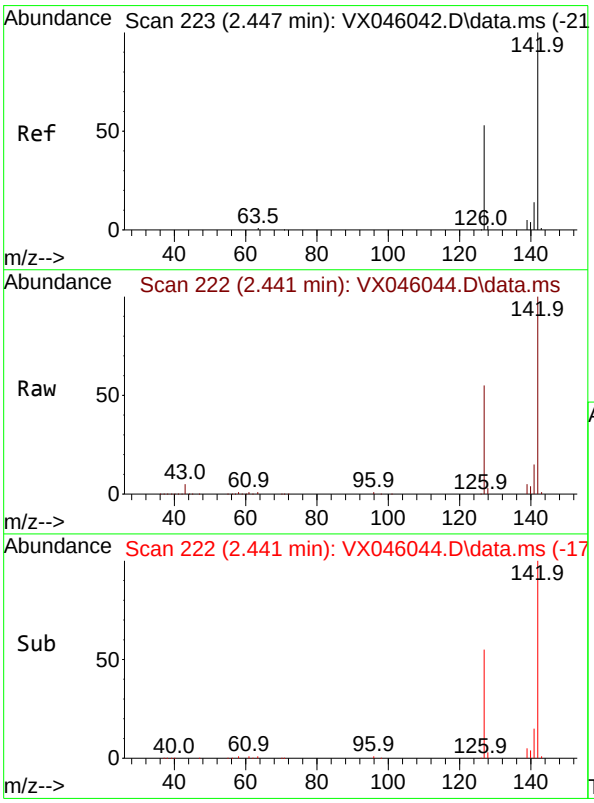
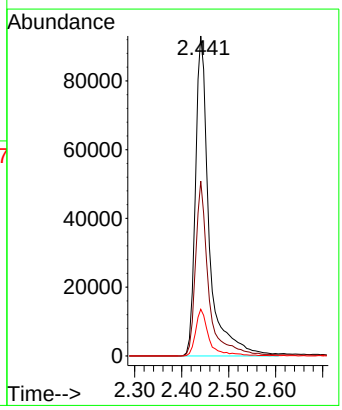
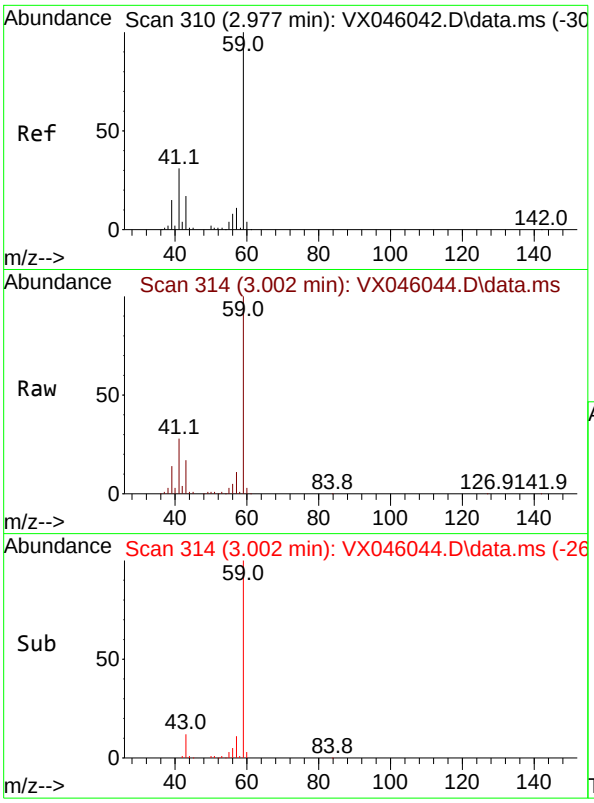



#10
Methyl Iodide
Concen: 112.441 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:142 Resp: 189843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 52.4 | 41.7 | 62.5 |
| 141 | 14.4 | 11.5 | 17.3 |

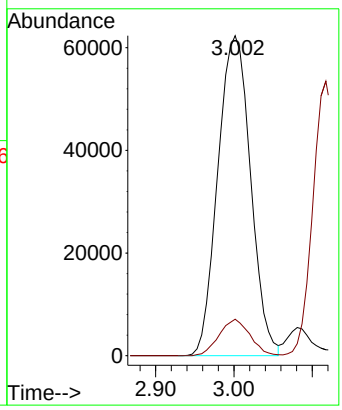





#11
Tert butyl alcohol
Concen: 616.119 ug/l
RT: 3.002 min Scan# 3
Delta R.T. 0.024 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 59 Resp: 18123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.6 | 12.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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Reviewed By :John Carlone 05/06/2025
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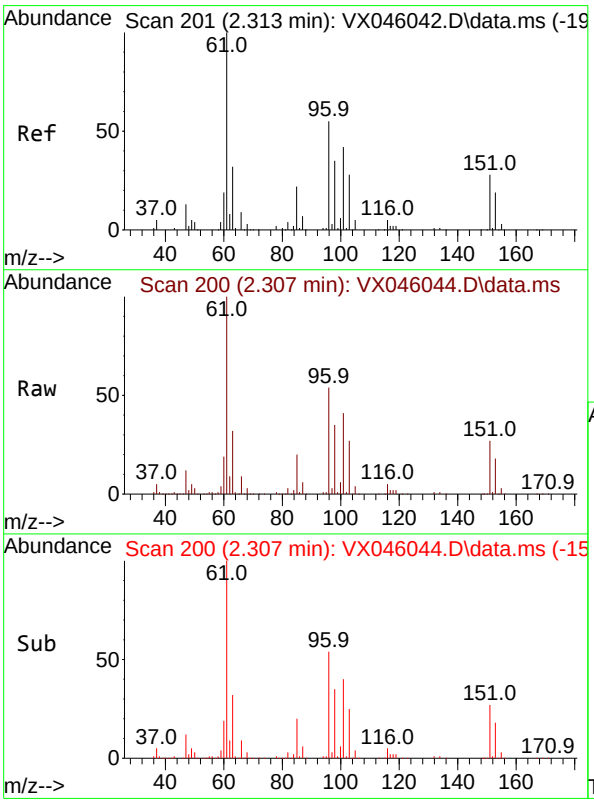
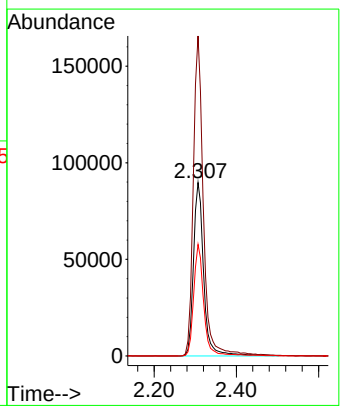
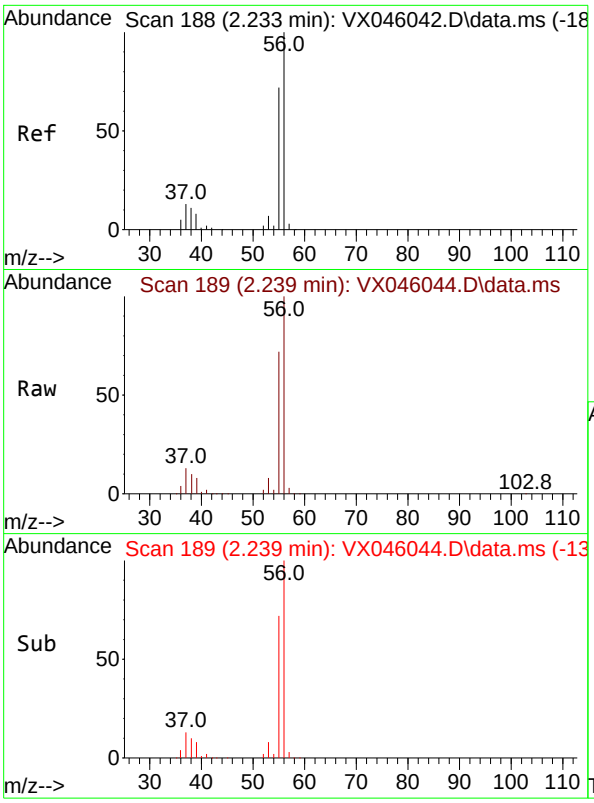



#12
1,1-Dichloroethene
Concen: 111.039 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 96 Resp: 155451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 184.5 | 146.2 | 219.2 |
| 98 | 64.3 | 51.0 | 76.6 |

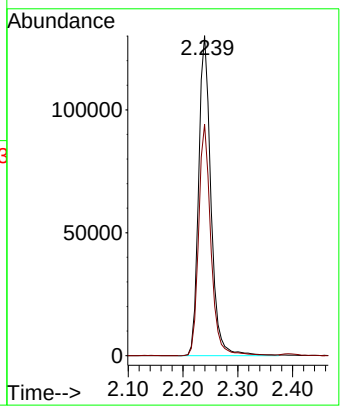





#13
Acrolein
Concen: 594.872 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 56 Resp: 20325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.1 | 56.2 | 84.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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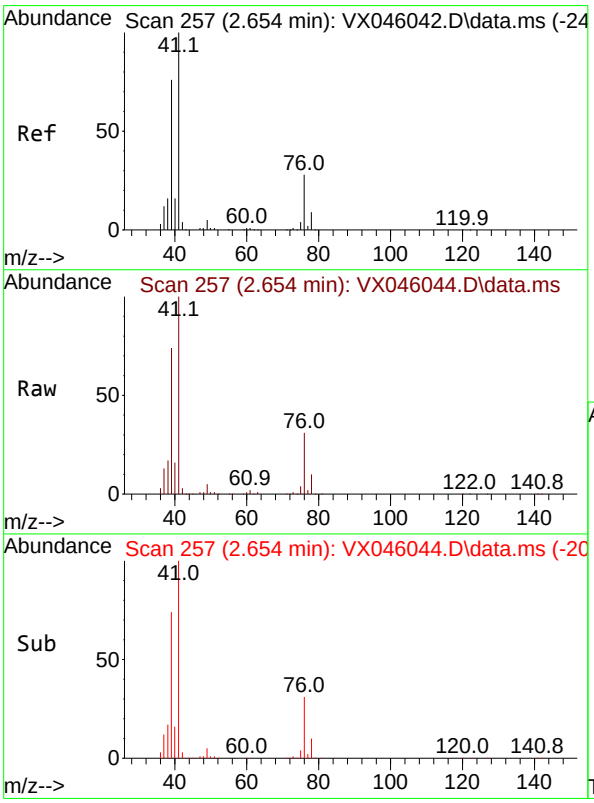
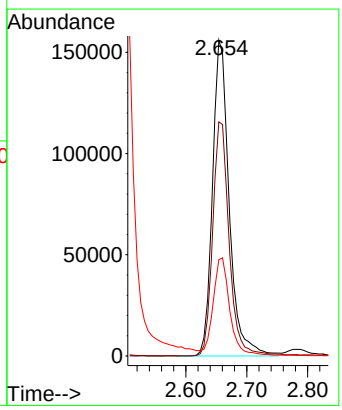
Supervised By :Mahesh Dadoda 05/06/2025

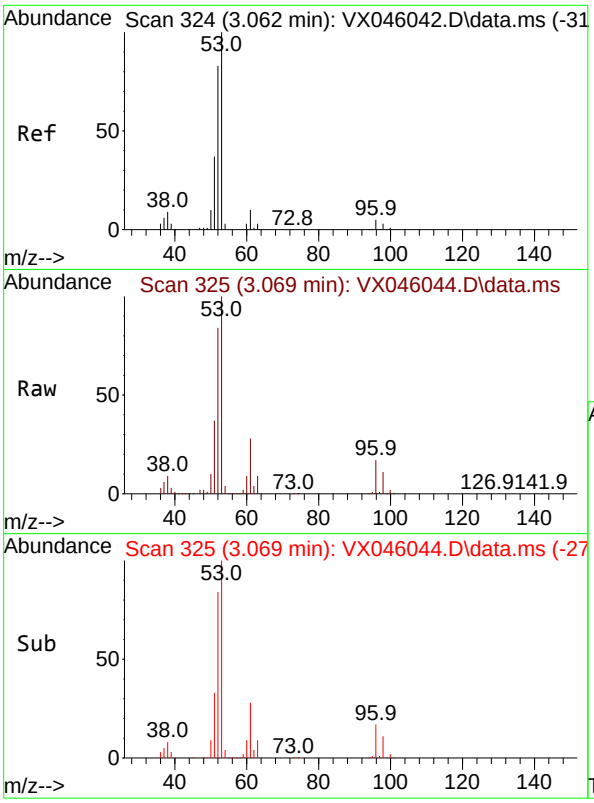



#14
Allyl chloride
Concen: 112.561 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 41 Resp: 297776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 73.7 | 60.6 | 90.8 |
| 76 | 31.8 | 24.9 | 37.3 |

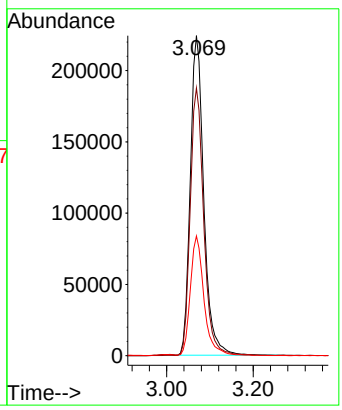





#15
Acrylonitrile
Concen: 550.973 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 53 Resp: 48485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 84.2 | 65.3 | 97.9 |
| 51 | 37.5 | 29.8 | 44.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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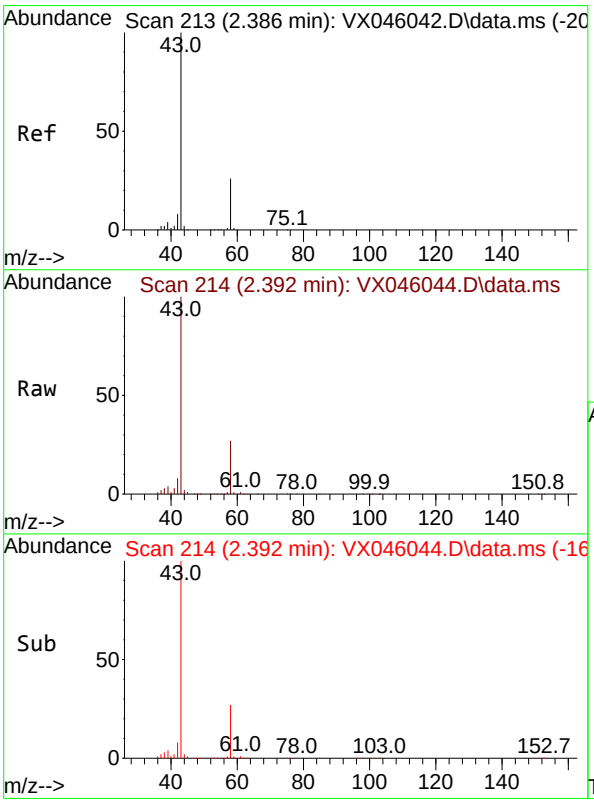
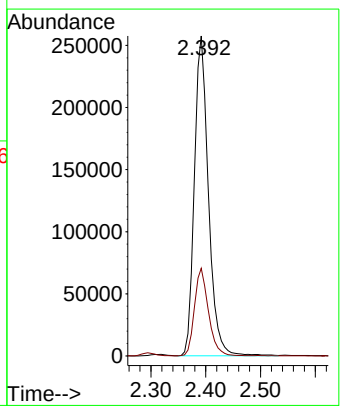
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

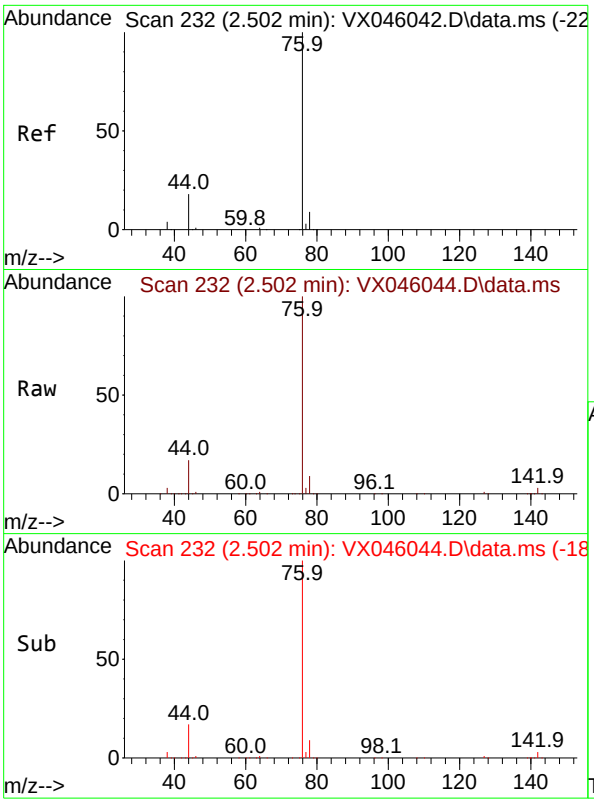



#16
Acetone
Concen: 545.754 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 460820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.3 | 21.2 | 31.8 |

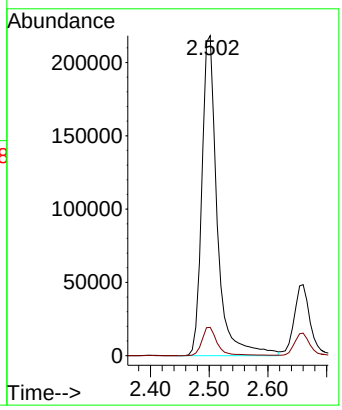





#17
Carbon Disulfide
Concen: 122.499 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 76 Resp: 39735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 7.0 | 10.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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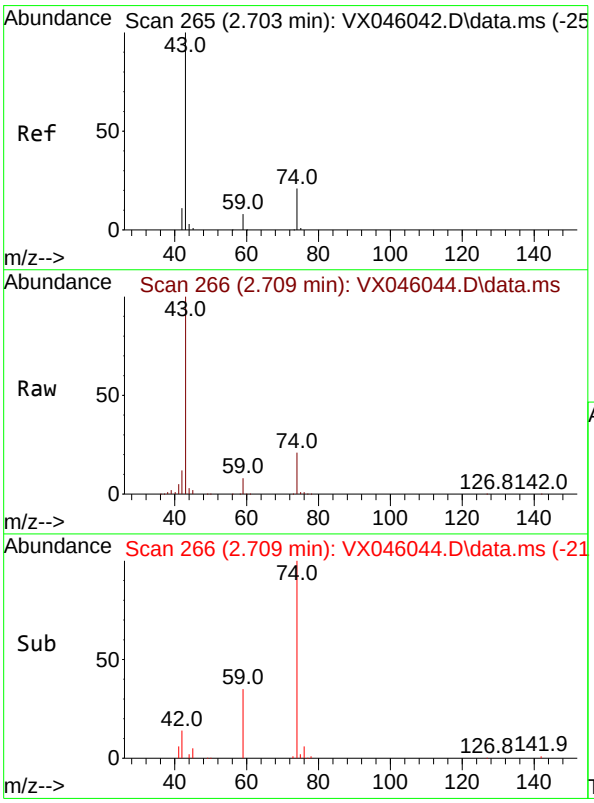
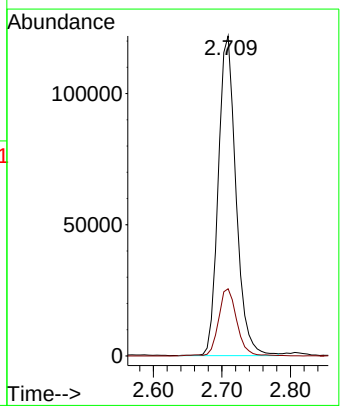
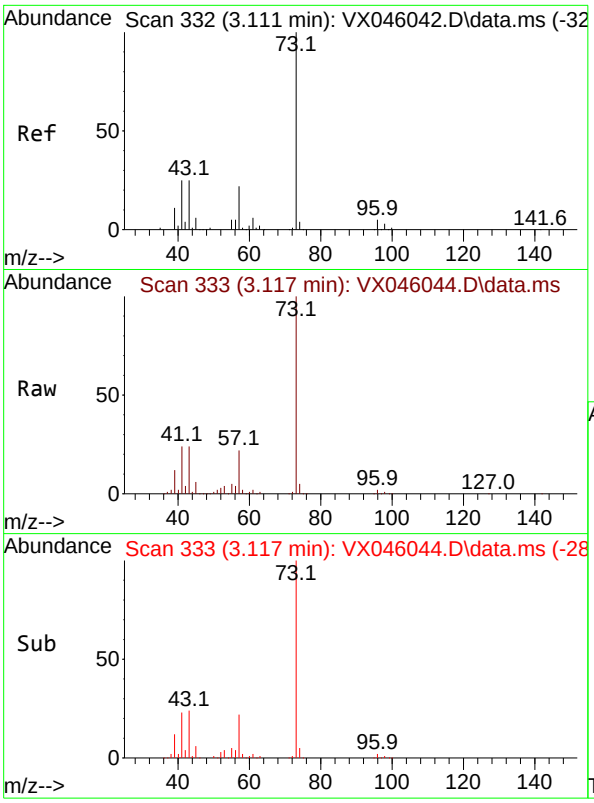



#18
Methyl Acetate
Concen: 108.099 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 217885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 21.9 | 16.7 | 25.1 |

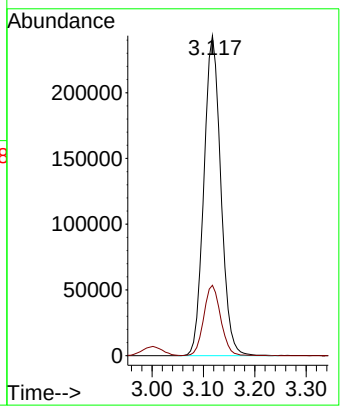





#19
Methyl tert-butyl Ether
Concen: 114.112 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 73 Resp: 55721

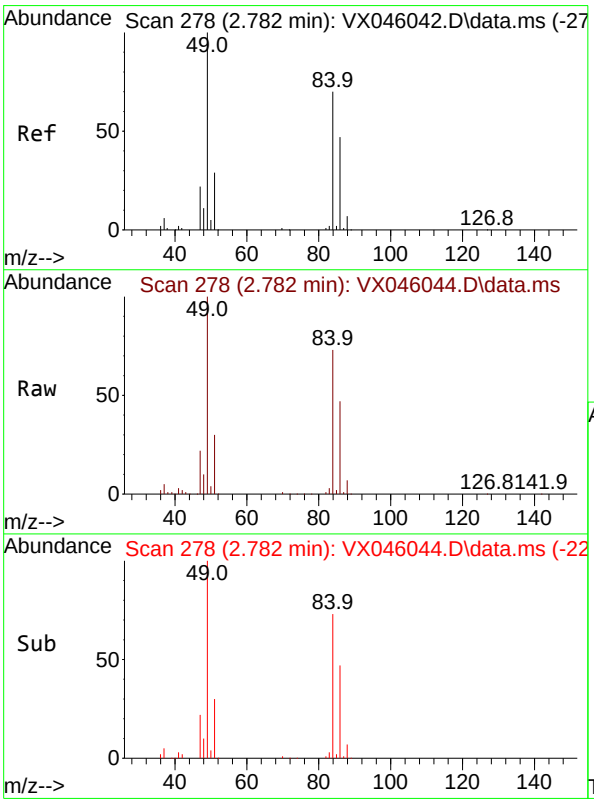
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.0 | 17.7 | 26.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

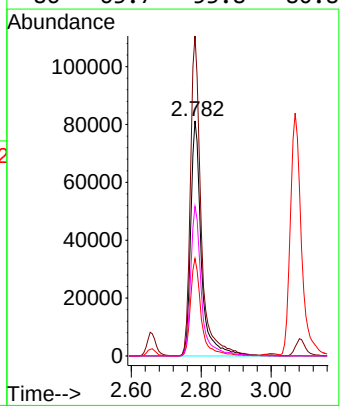
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

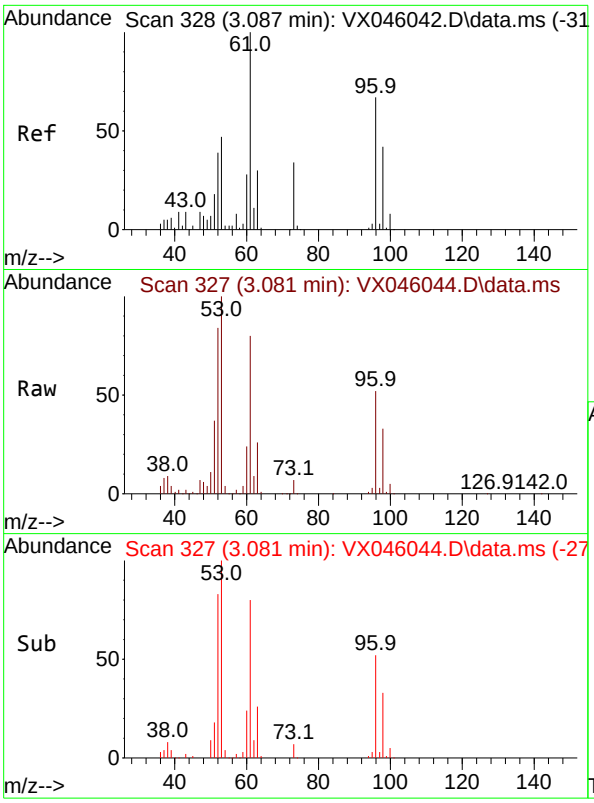



#20
Methylene Chloride
Concen: 100.579 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 84 Resp: 172035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 136.0 | 113.9 | 170.9 |
| 51 | 41.5 | 33.5 | 50.3 |
| 86 | 63.7 | 53.8 | 80.8 |

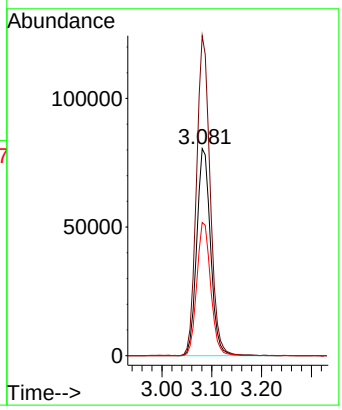





#21
trans-1,2-Dichloroethene
Concen: 108.241 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 96 Resp: 15469

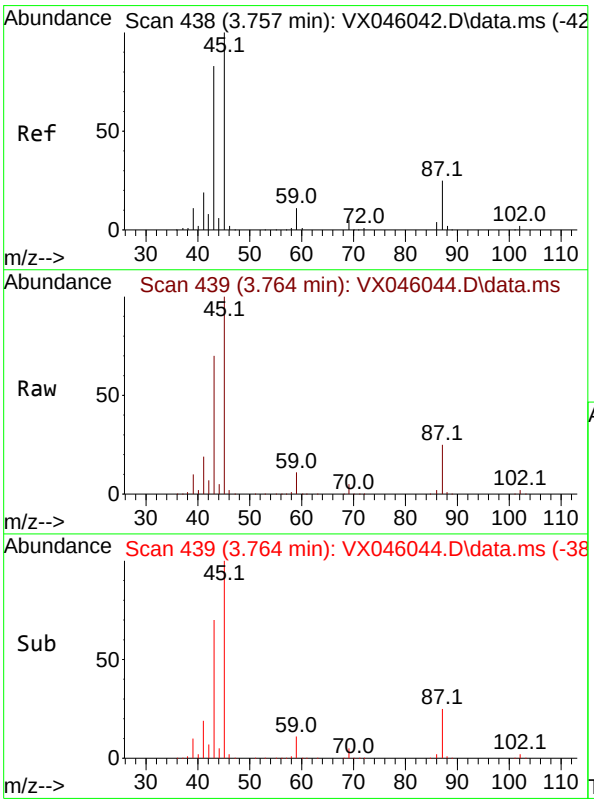
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 154.6 | 119.5 | 179.3 |
| 98 | 64.3 | 50.0 | 75.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

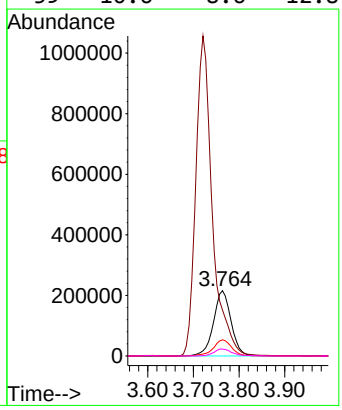
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

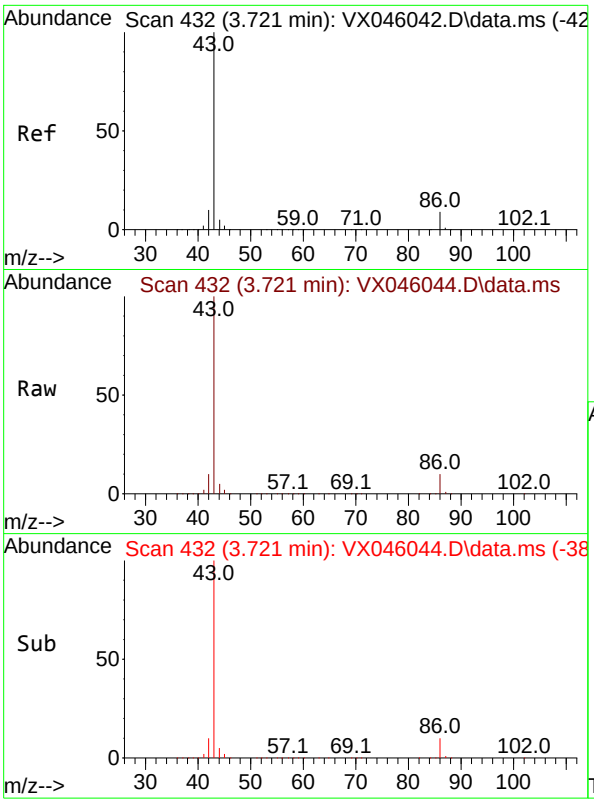



#22
Diisopropyl ether
Concen: 116.858 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 45 Resp: 577610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 70.3 | 66.6 | 100.0 |
| 87 | 24.7 | 19.8 | 29.6 |
| 59 | 10.6 | 8.6 | 12.8 |

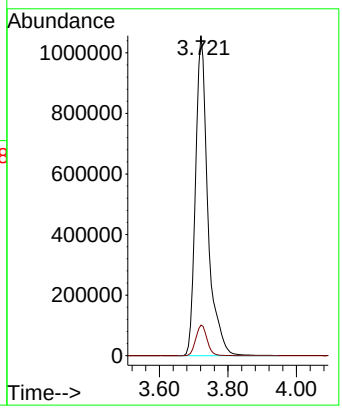





#23
Vinyl Acetate
Concen: 608.005 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 265575

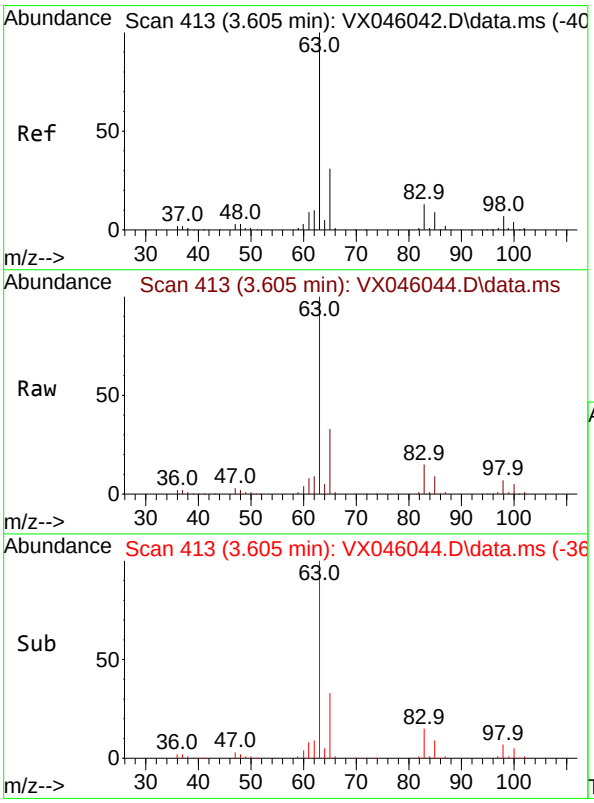
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.6 | 7.5 | 11.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

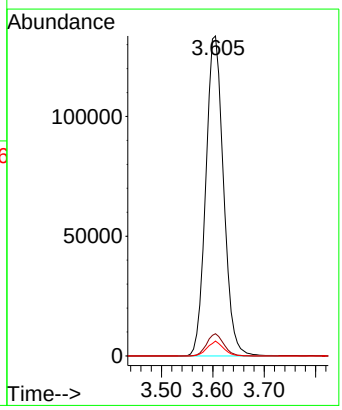
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

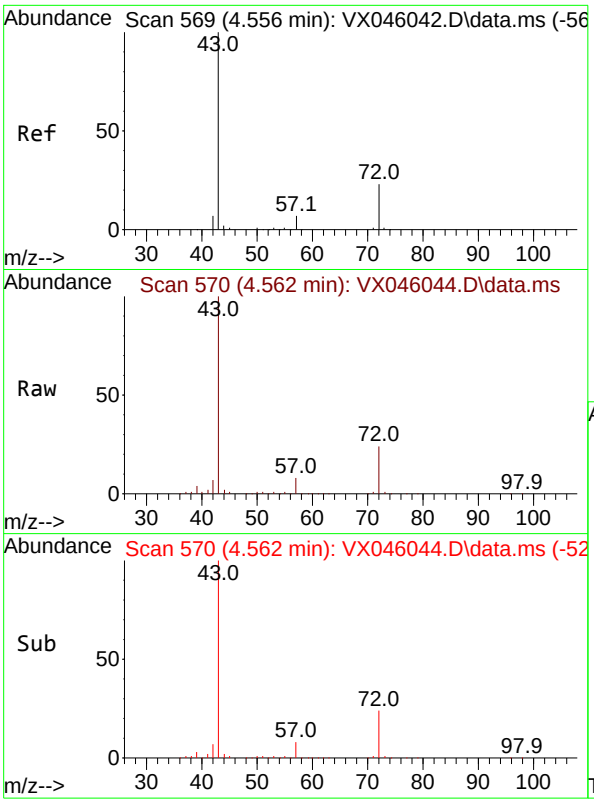



#24
1,1-Dichloroethane
Concen: 110.182 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 63 Resp: 320083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.0 | 3.6 | 10.8 |
| 100 | 4.7 | 2.1 | 6.3 |

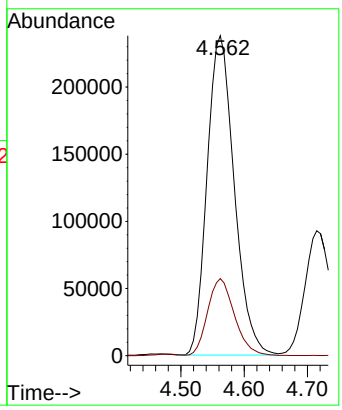





#25
2-Butanone
Concen: 581.292 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 70846

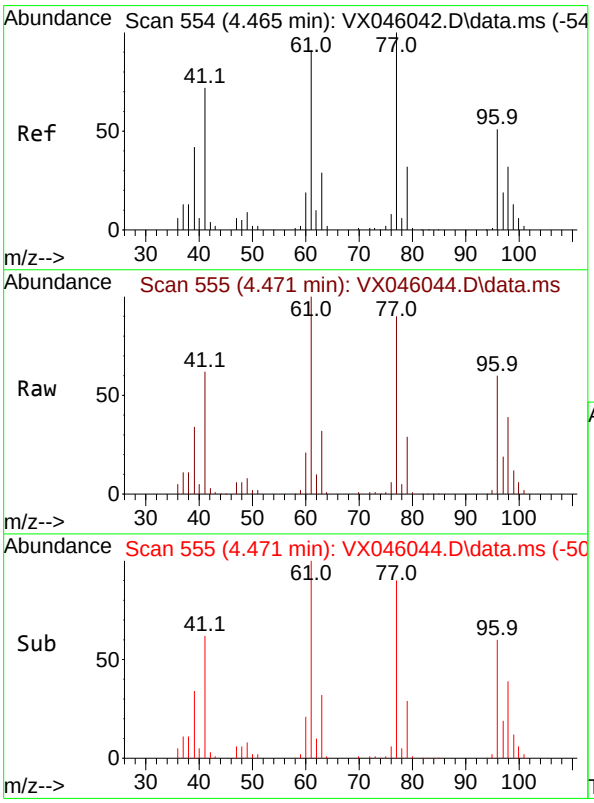
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.0 | 18.4 | 27.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

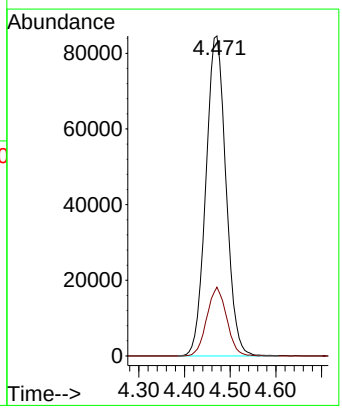
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

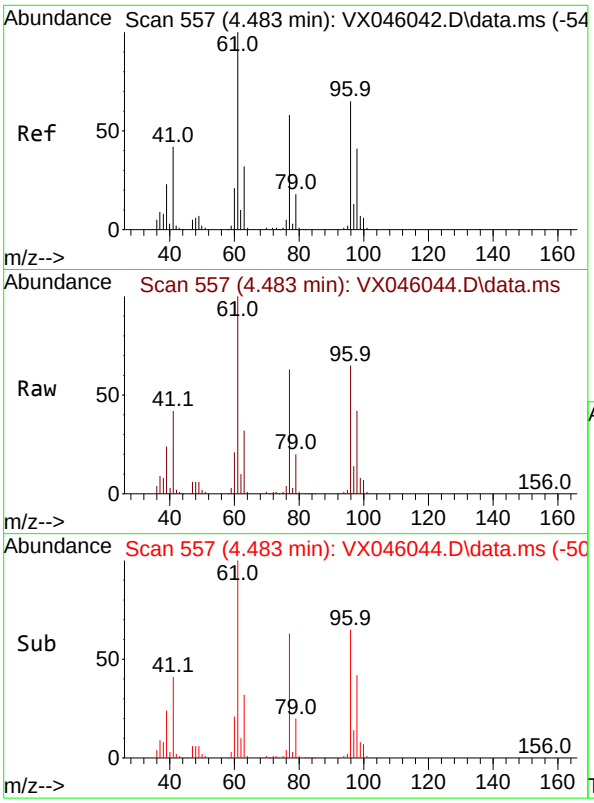



#26
2,2-Dichloropropane
Concen: 117.548 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 77 Resp: 258698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.1 | 10.5 | 31.5 |






#27
cis-1,2-Dichloroethene
Concen: 108.994 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 96 Resp: 18783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 159.8 | 0.0 | 322.8 |
| 98 | 64.8 | 0.0 | 129.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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Reviewed By :John Carlone 05/06/2025
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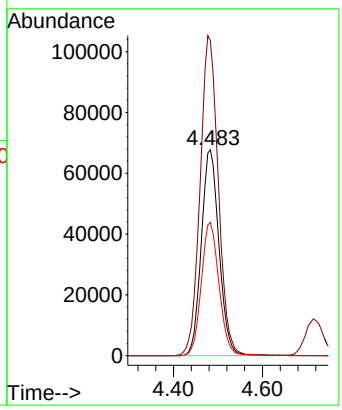
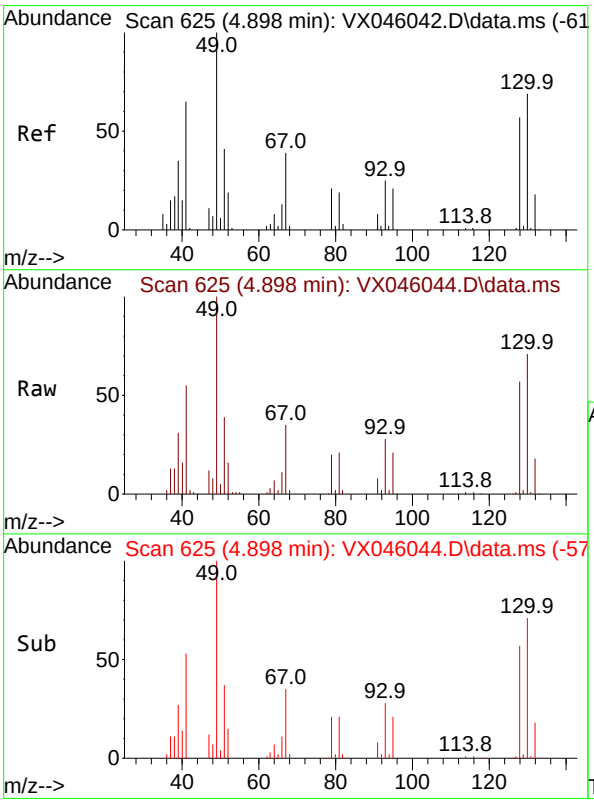
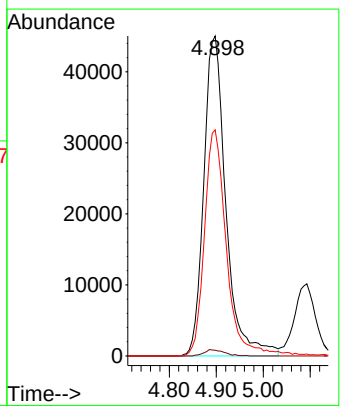


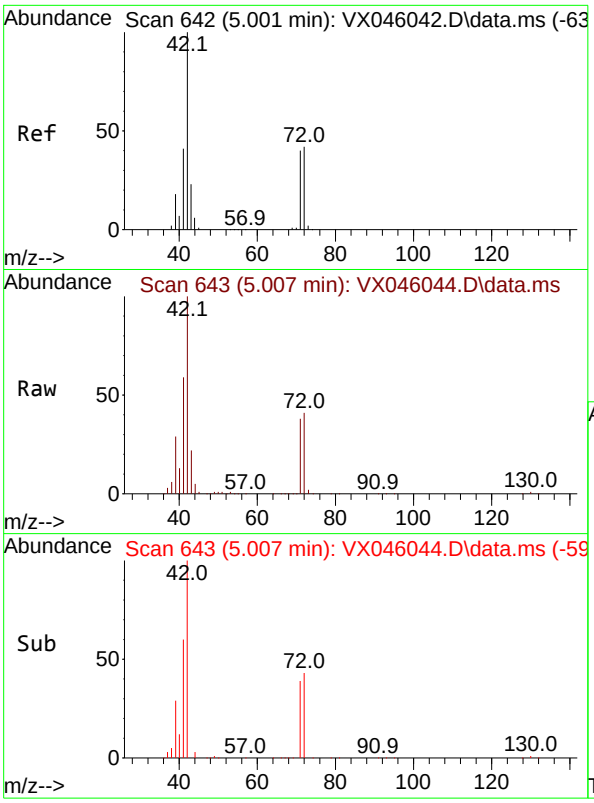




#28
Bromochloromethane
Concen: 95.108 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 49 Resp: 146923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 4.0 |
| 130 | 70.5 | 56.2 | 84.2 |






#29
Tetrahydrofuran
Concen: 569.081 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 42 Resp: 45045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.6 | 33.7 | 50.5 |
| 71 | 38.7 | 31.4 | 47.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
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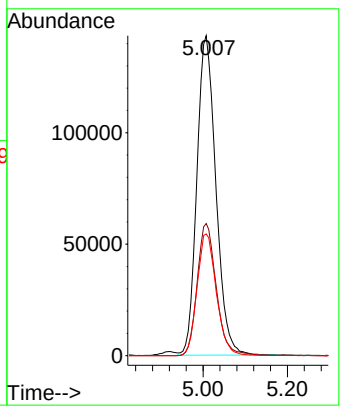
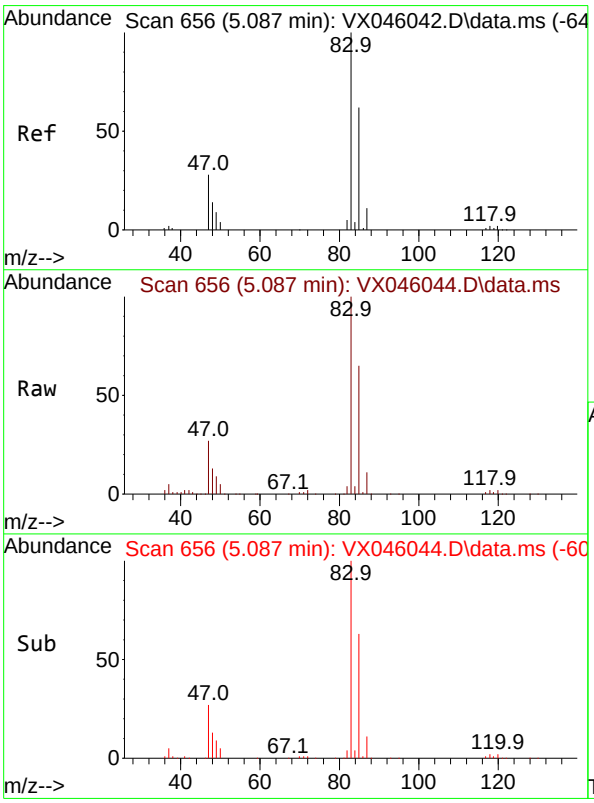
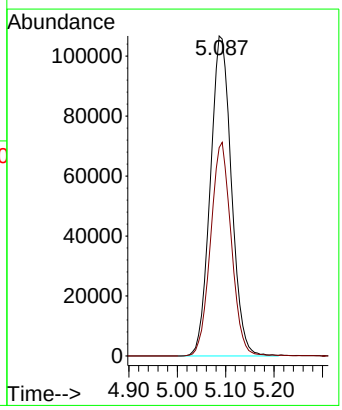


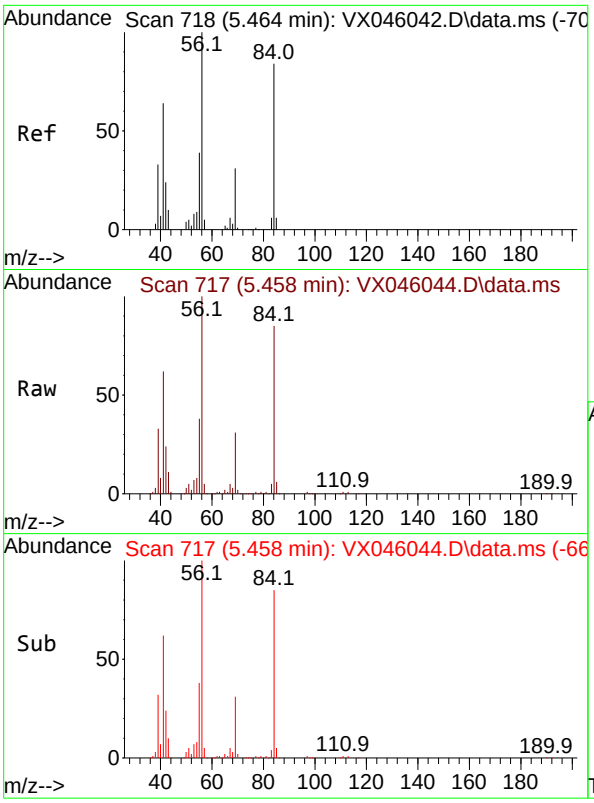




#30
Chloroform
Concen: 107.208 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 83 Resp: 323659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.1 | 49.3 | 73.9 |

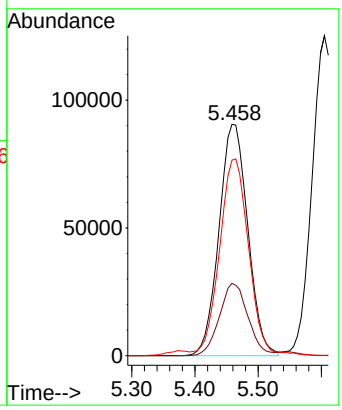





#31
Cyclohexane
Concen: 116.934 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 56 Resp: 28631

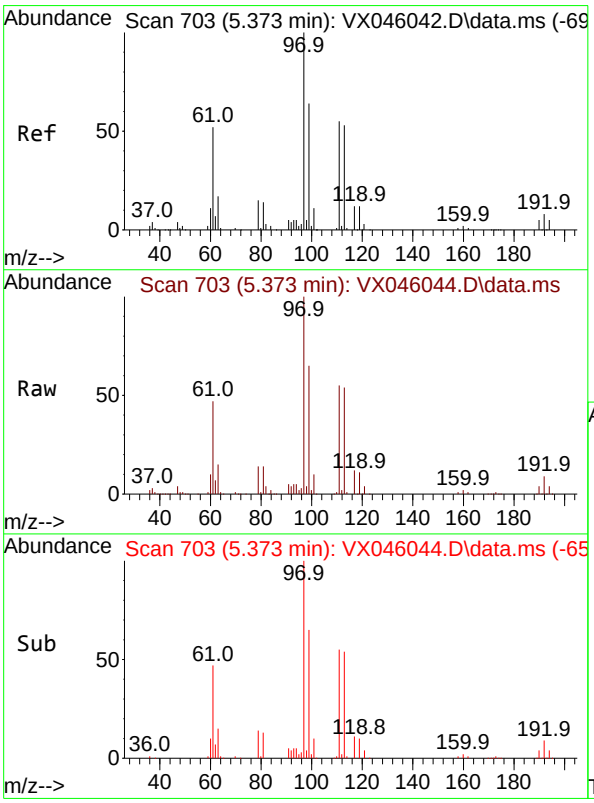
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.2 | 24.4 | 36.6 |
| 84 | 82.8 | 66.9 | 100.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

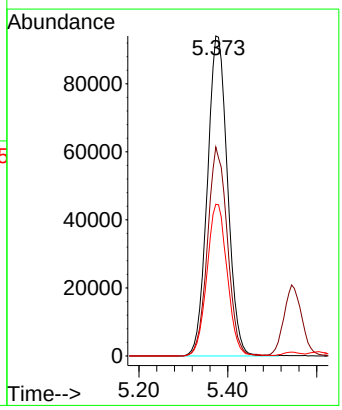
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

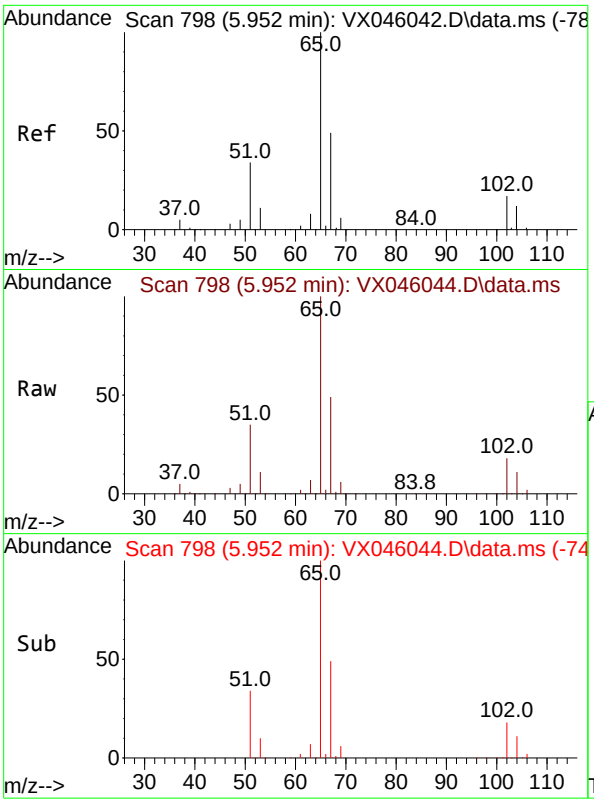



#32
1,1,1-Trichloroethane
Concen: 113.572 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 97 Resp: 295702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.3 | 51.8 | 77.6 |
| 61 | 48.0 | 40.1 | 60.1 |

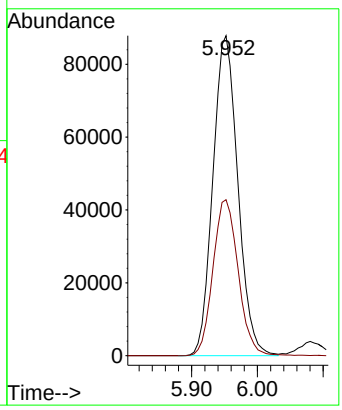





#33
1,2-Dichloroethane-d4
Concen: 93.983 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 65 Resp: 23195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.4 | 0.0 | 99.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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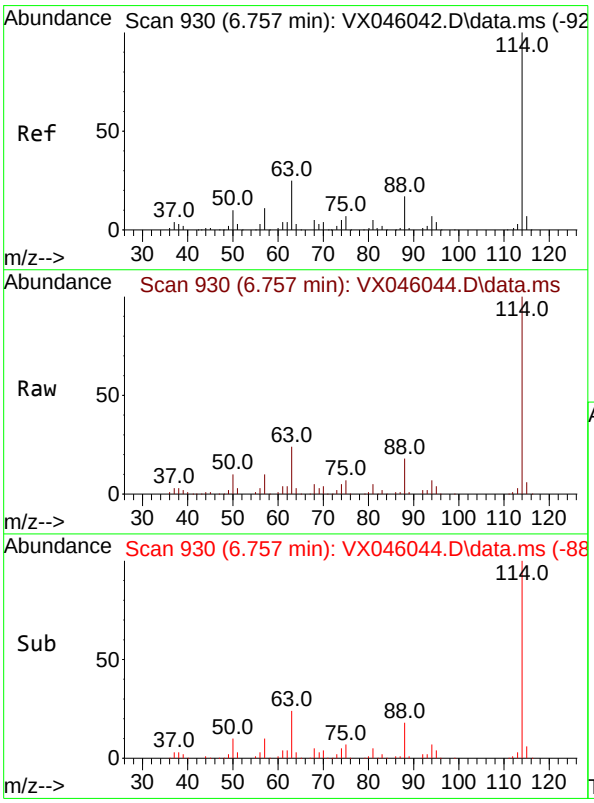
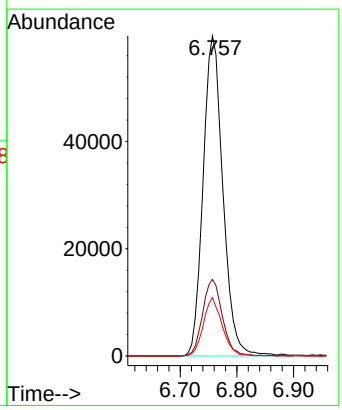
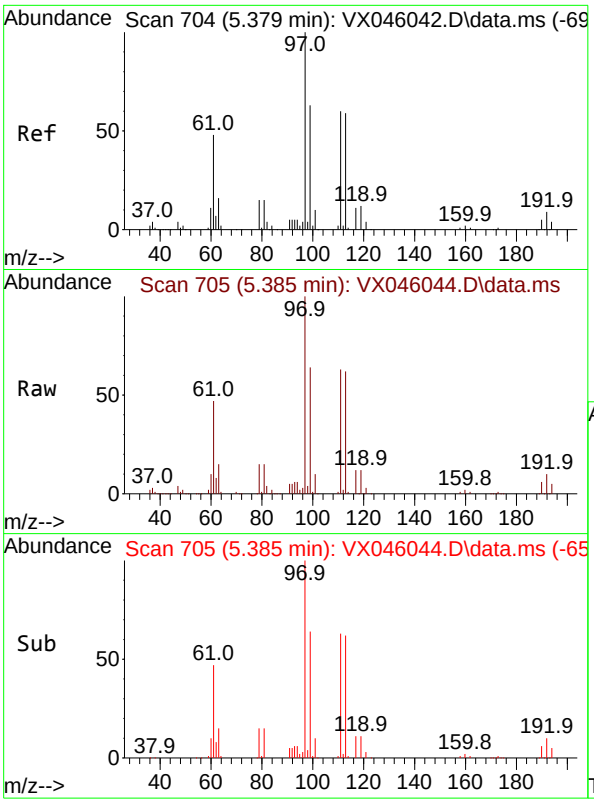



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:114 Resp: 144975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.9 | 0.0 | 49.2 |
| 88 | 18.3 | 0.0 | 33.6 |

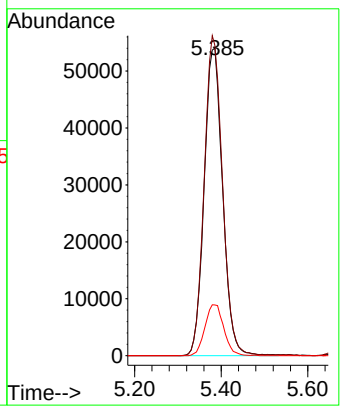





#35
Dibromofluoromethane
Concen: 98.562 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:113 Resp: 16016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.0 | 83.1 | 124.7 |
| 192 | 16.9 | 13.3 | 19.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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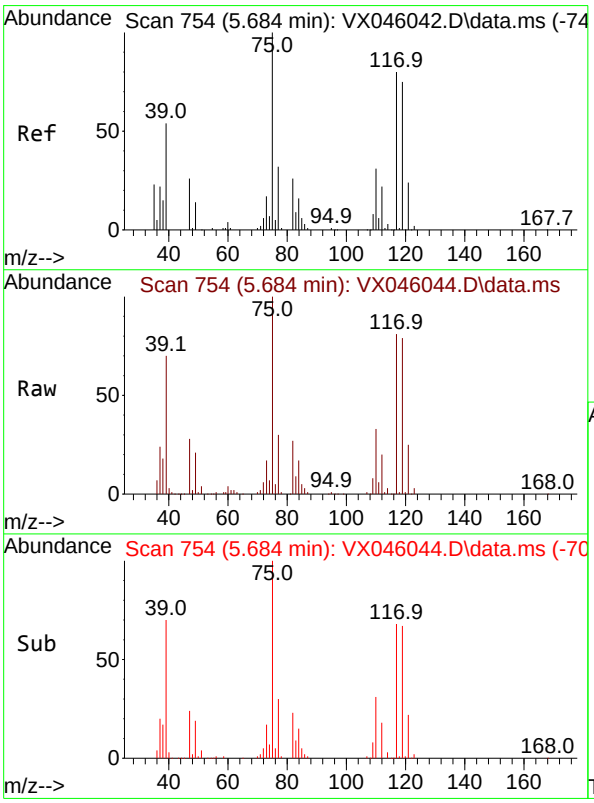
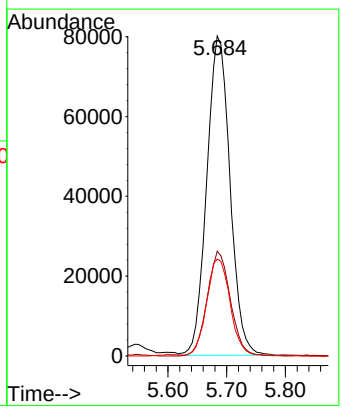
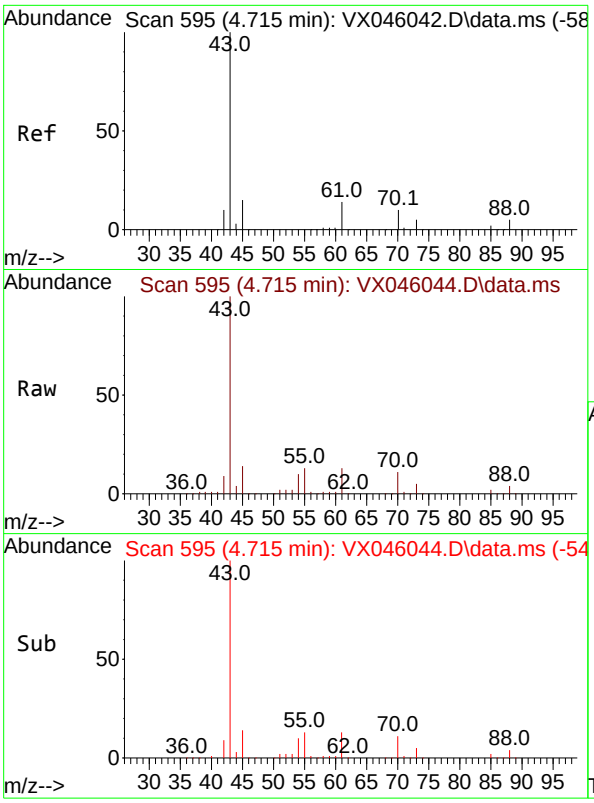



#36
1,1-Dichloropropene
Concen: 116.462 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 219731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 32.9 | 16.3 | 48.9 |
| 77 | 30.8 | 24.3 | 36.5 |

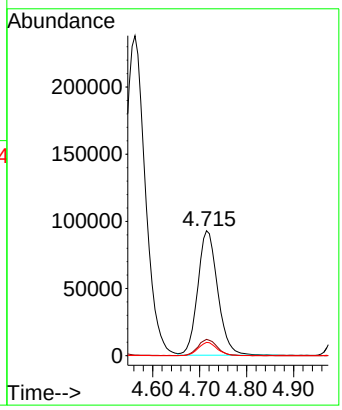





#37
Ethyl Acetate
Concen: 115.889 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 27431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 12.5 | 10.3 | 15.5 |
| 70 | 10.2 | 7.9 | 11.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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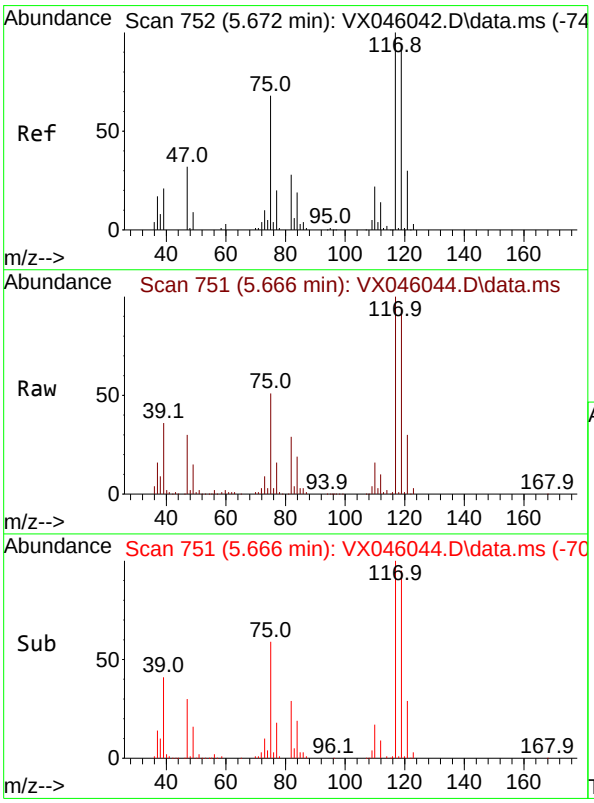
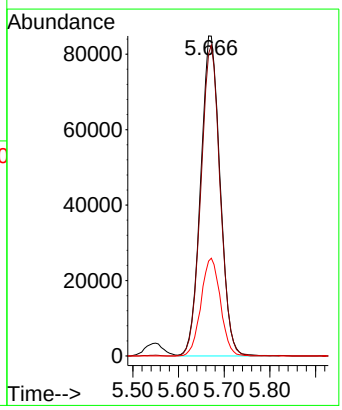
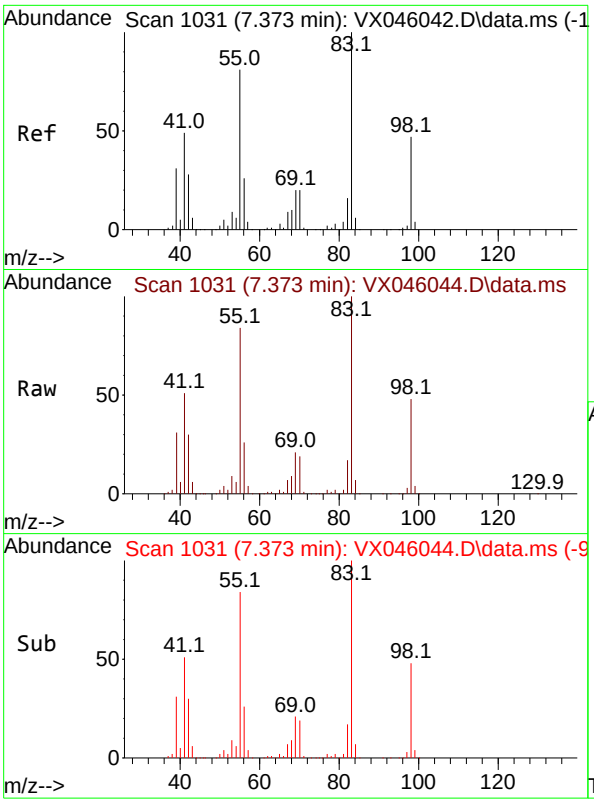



#38
Carbon Tetrachloride
Concen: 115.760 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:117 Resp: 250916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.3 | 75.2 | 112.8 |
| 121 | 29.7 | 24.2 | 36.4 |

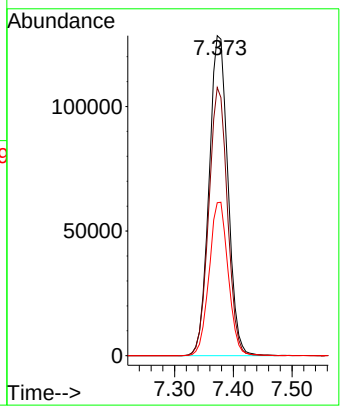





#39
Methylcyclohexane
Concen: 121.107 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 83 Resp: 28631

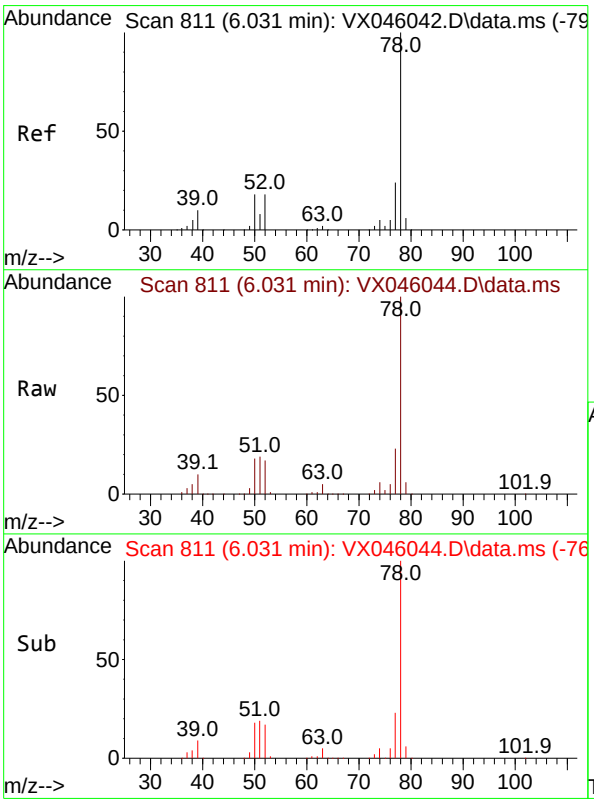
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 83.8 | 64.7 | 97.1 |
| 98 | 47.8 | 37.4 | 56.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

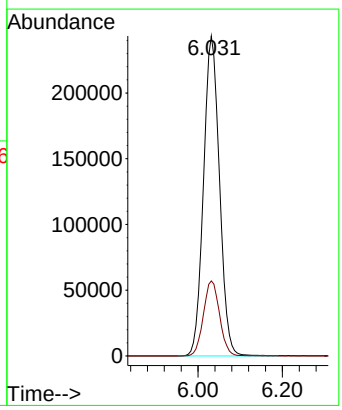
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

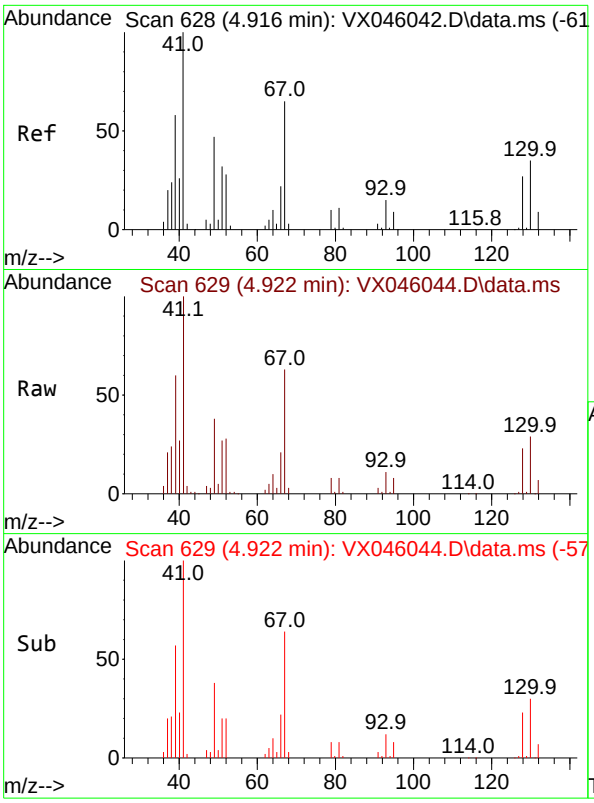



#40
Benzene
Concen: 109.813 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 78 Resp: 642178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.4 | 19.0 | 28.4 |

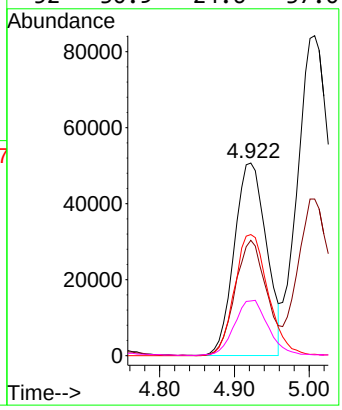





#41
Methacrylonitrile
Concen: 115.139 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 41 Resp: 15142

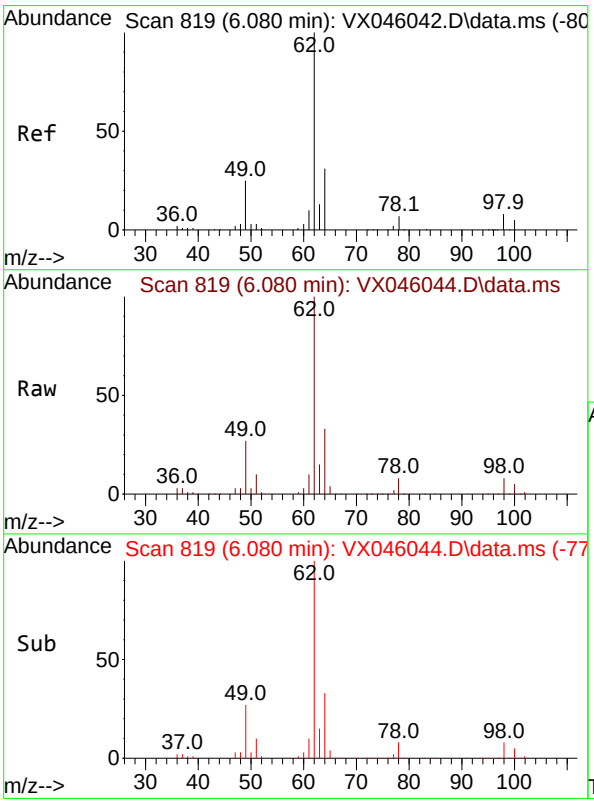
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.0 | 47.2 | 70.8 |
| 67 | 65.9 | 50.7 | 76.1 |
| 52 | 30.9 | 24.6 | 37.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

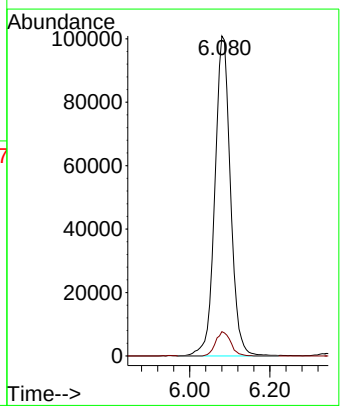
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

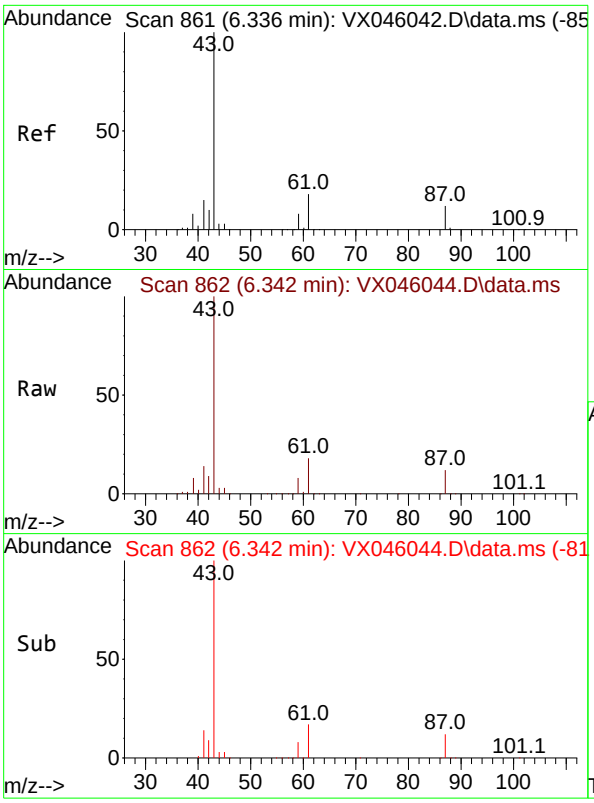



#42
1,2-Dichloroethane
Concen: 112.492 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 62 Resp: 271992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.4 | 0.0 | 15.2 |

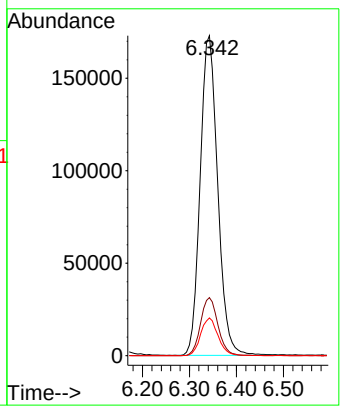





#43
Isopropyl Acetate
Concen: 123.780 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 44787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 18.1 | 14.3 | 21.5 |
| 87 | 11.7 | 9.5 | 14.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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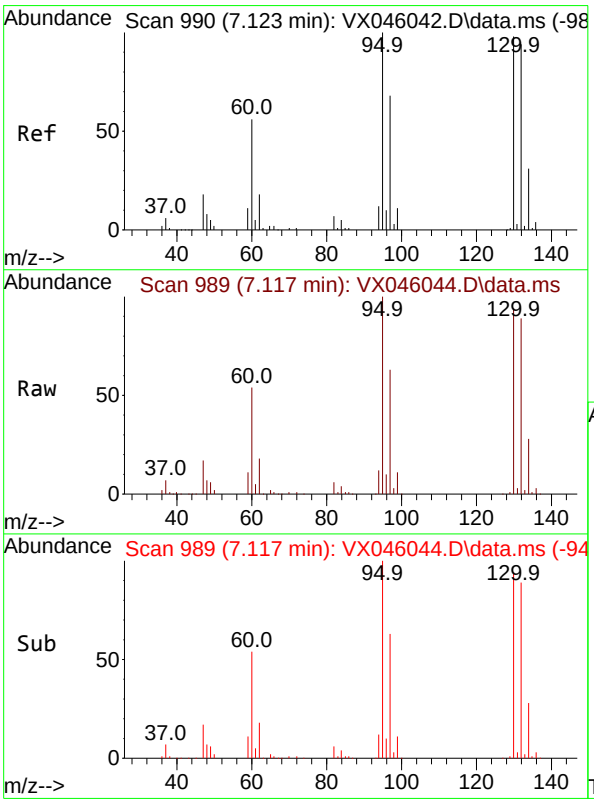
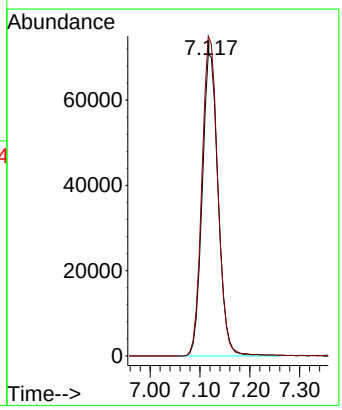
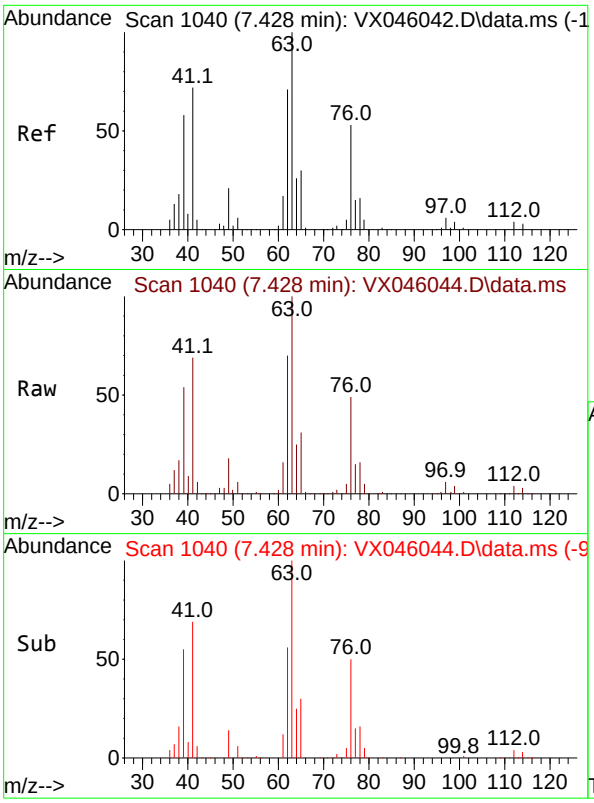



#44
Trichloroethene
Concen: 114.032 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:130 Resp: 157641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 105.9 | 0.0 | 204.2 |

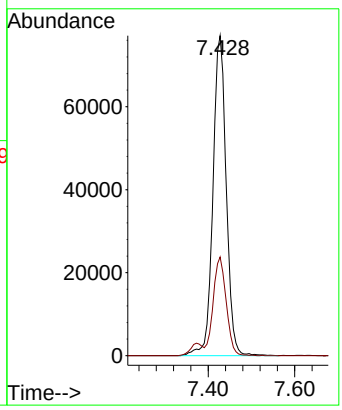





#45
1,2-Dichloropropane
Concen: 113.217 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 63 Resp: 16450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.8 | 24.1 | 36.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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Reviewed By :John Carlone 05/06/2025
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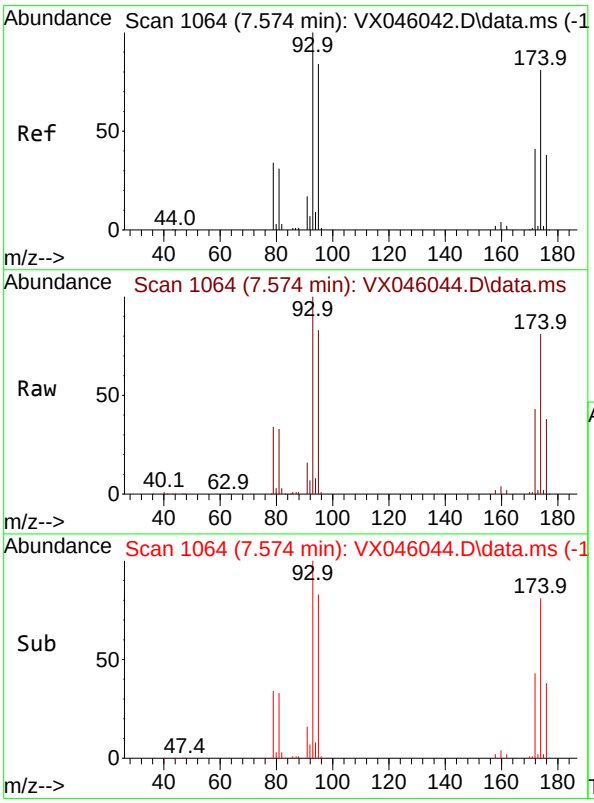
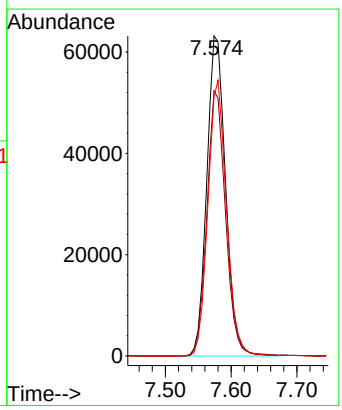
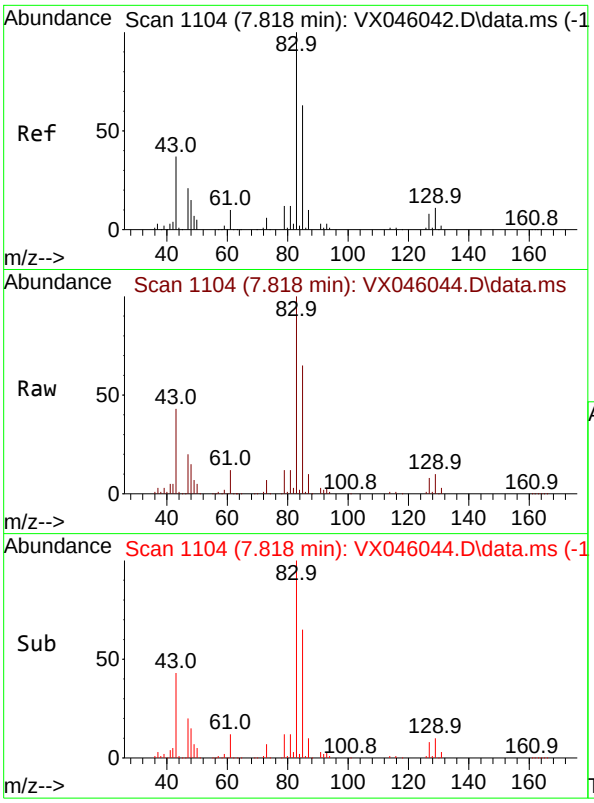



#46
Dibromomethane
Concen: 109.869 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 93 Resp: 125846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.4 | 65.6 | 98.4 |
| 174 | 85.0 | 68.2 | 102.2 |

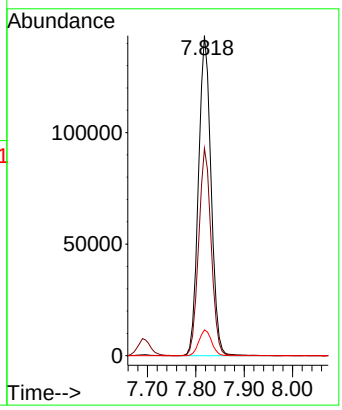





#47
Bromodichloromethane
Concen: 116.365 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 83 Resp: 25832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.8 | 50.5 | 75.7 |
| 127 | 8.0 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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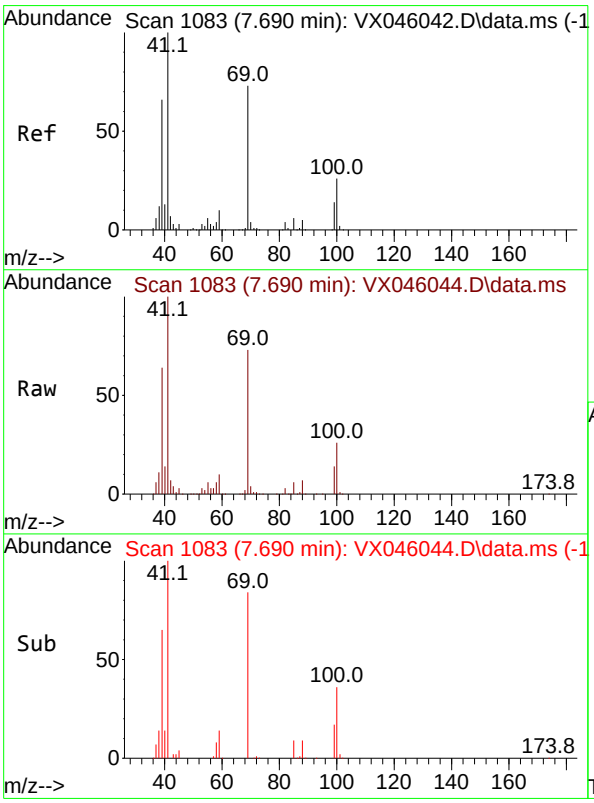
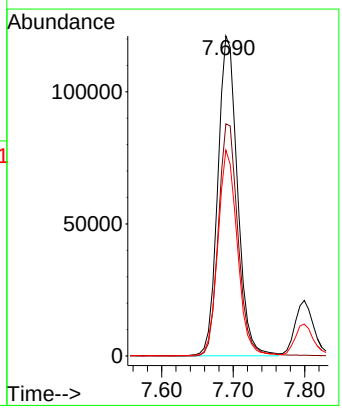
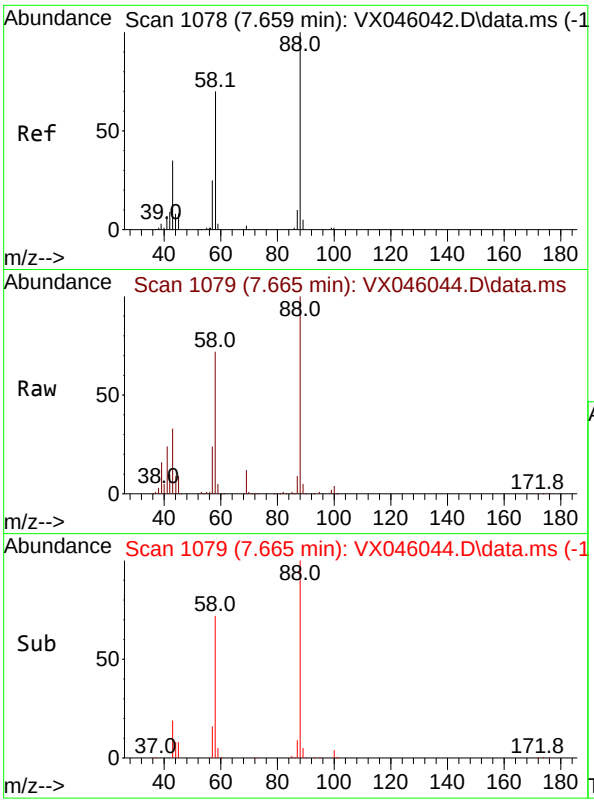



#48
Methyl methacrylate
Concen: 124.356 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 41 Resp: 231040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 73.0 | 58.5 | 87.7 |
| 39 | 63.8 | 51.7 | 77.5 |






#49
1,4-Dioxane
Concen: 2241.695 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 88 Resp: 8280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 40.0 | 33.4 | 50.2 |
| 58 | 74.8 | 58.6 | 88.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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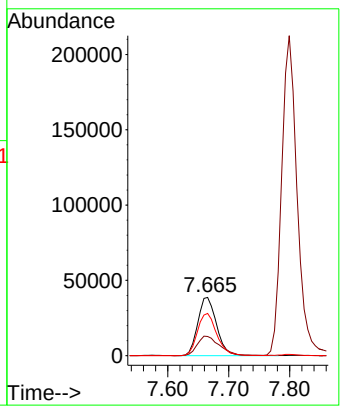
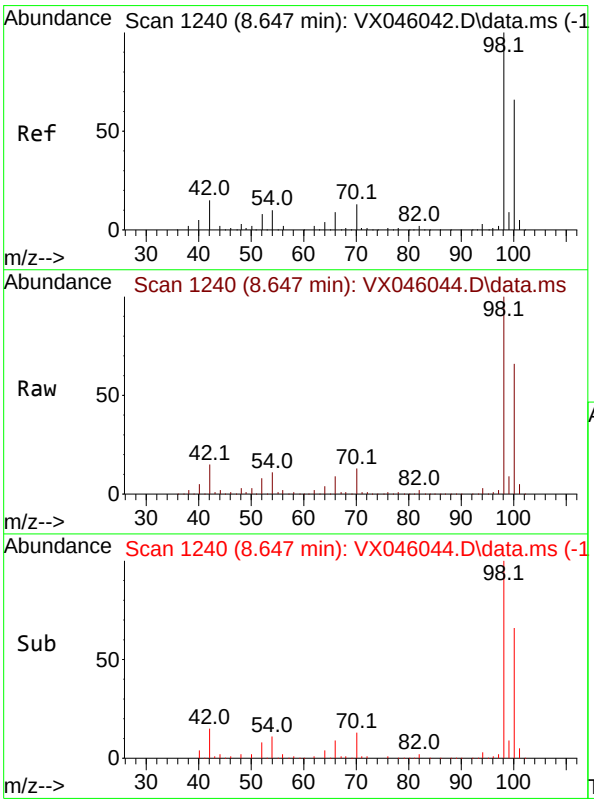
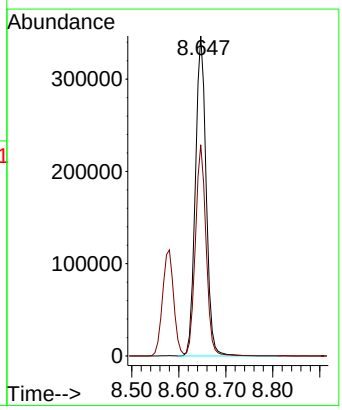


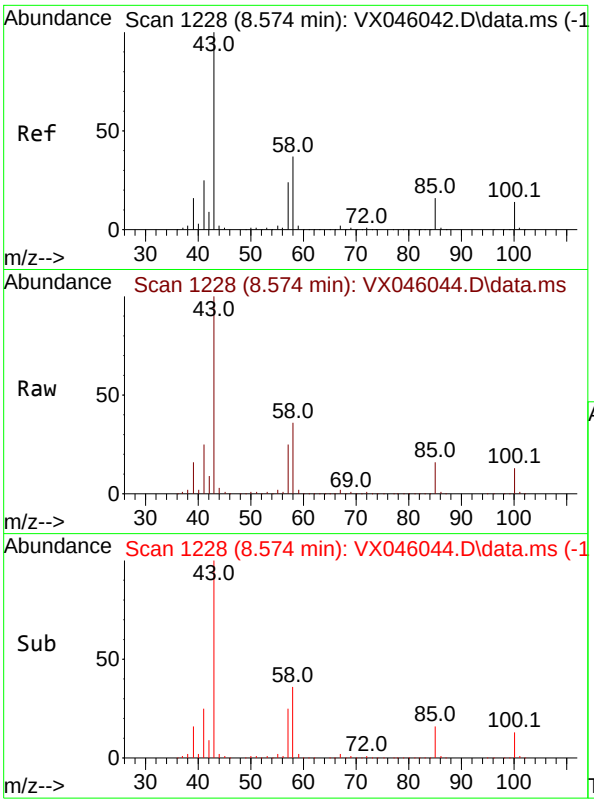




#50
Toluene-d8
Concen: 101.252 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 98 Resp: 554390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 53.5 | 80.3 |

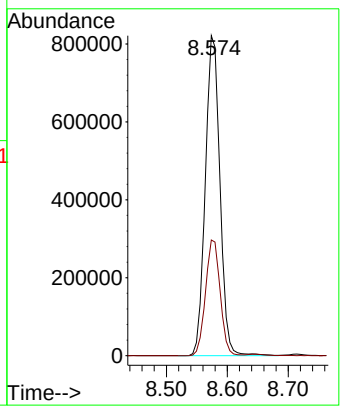





#51
4-Methyl-2-Pentanone
Concen: 577.831 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 137127

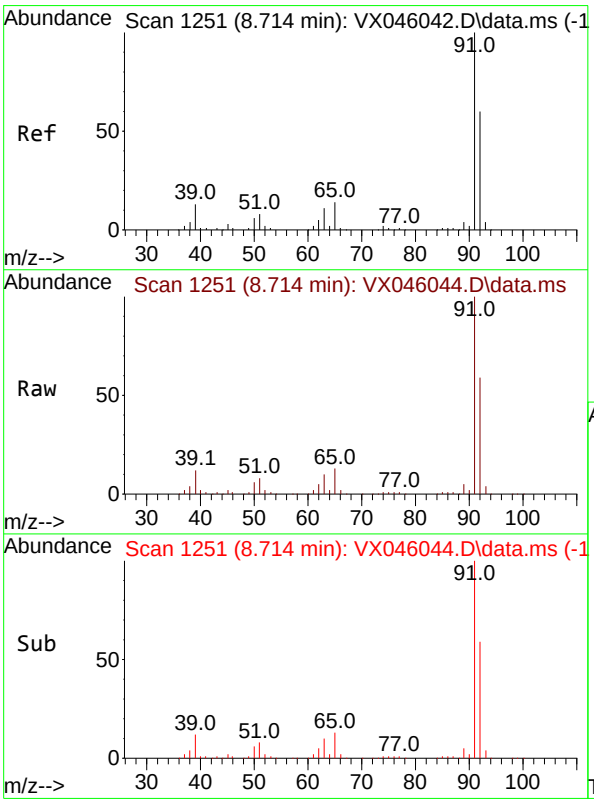
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.2 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

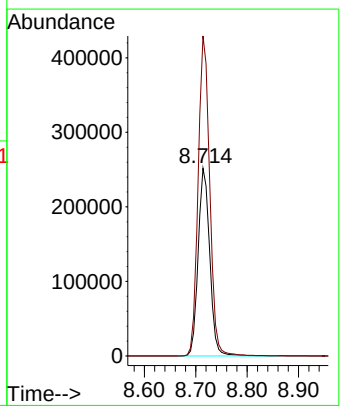
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

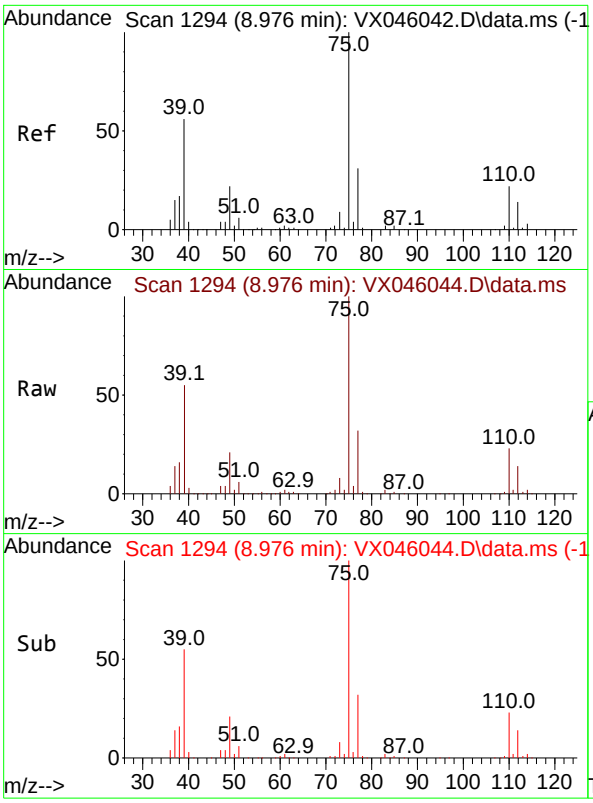



#52
Toluene
Concen: 113.430 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 92 Resp: 393323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.0 | 136.6 | 205.0 |

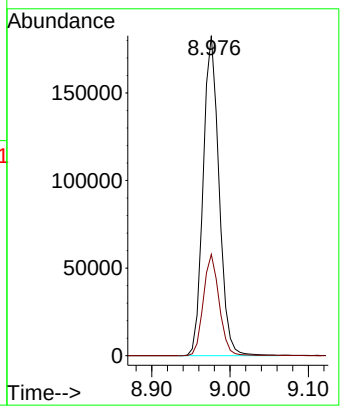





#53
t-1,3-Dichloropropene
Concen: 138.001 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 25723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.0 | 37.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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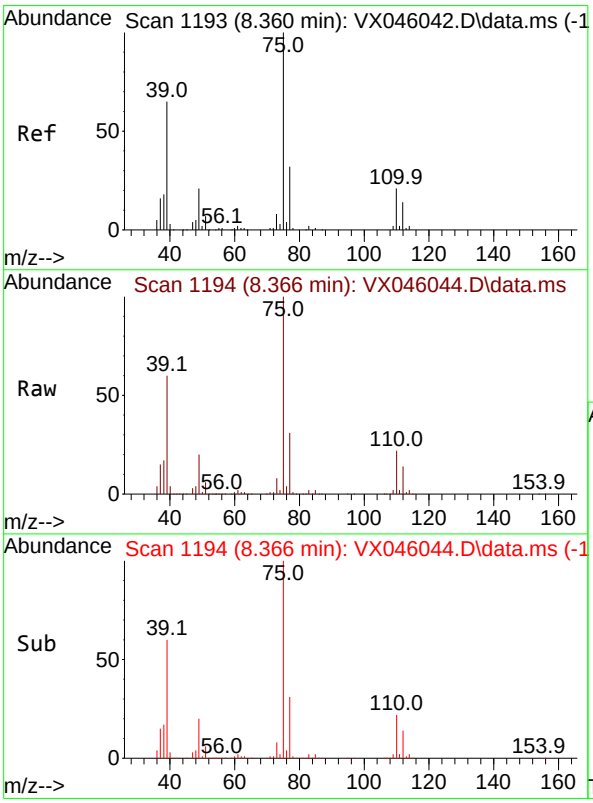
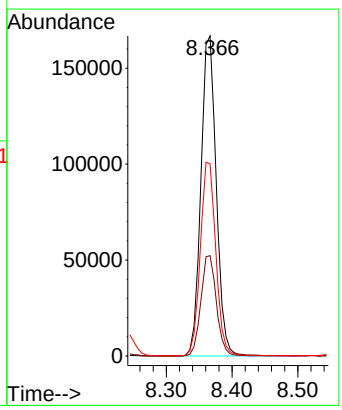
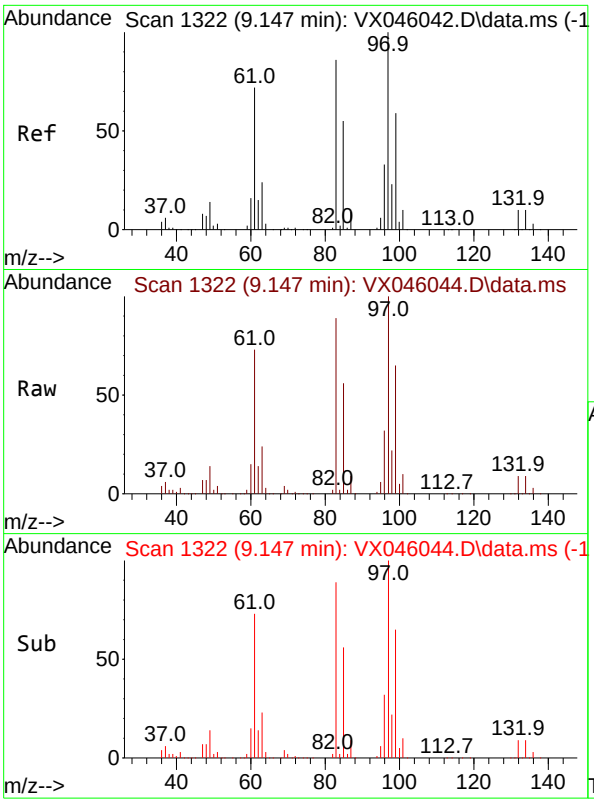



#54
cis-1,3-Dichloropropene
Concen: 124.658 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 271054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.4 | 38.0 |
| 39 | 60.0 | 52.2 | 78.4 |

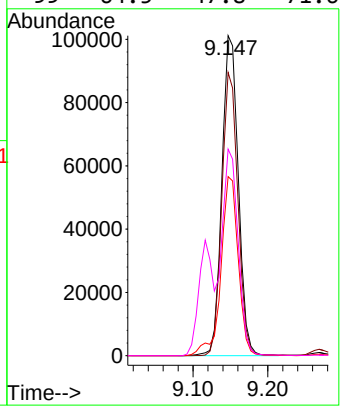





#55
1,1,2-Trichloroethane
Concen: 110.551 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 97 Resp: 15493

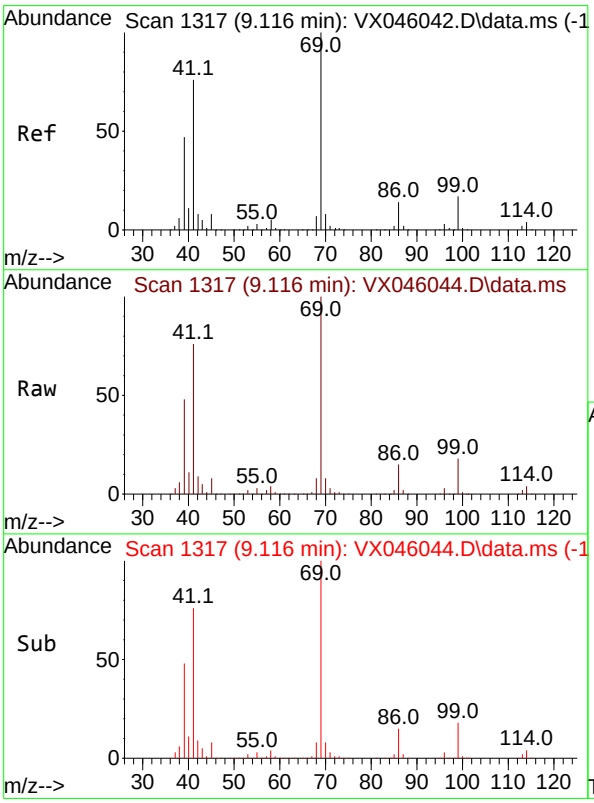
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.5 | 69.0 | 103.6 |
| 85 | 56.0 | 44.3 | 66.5 |
| 99 | 64.5 | 47.8 | 71.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

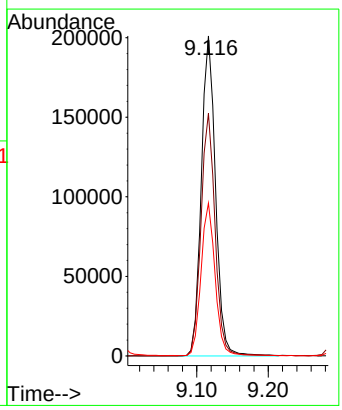
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

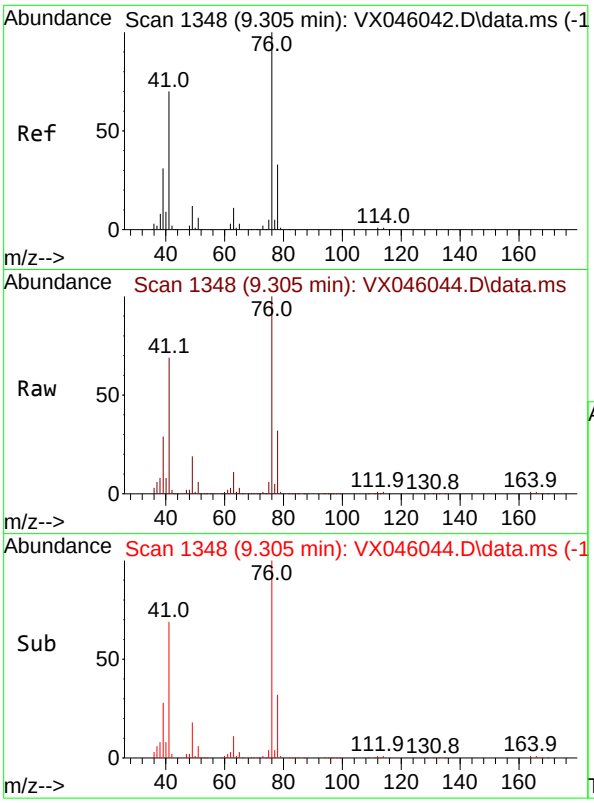



#56
Ethyl methacrylate
Concen: 127.968 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 69 Resp: 277921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 75.4 | 60.8 | 91.2 |
| 39 | 47.2 | 39.0 | 58.6 |

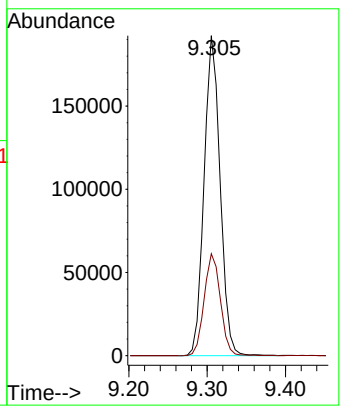





#57
1,3-Dichloropropane
Concen: 109.813 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 76 Resp: 27281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.3 | 26.3 | 39.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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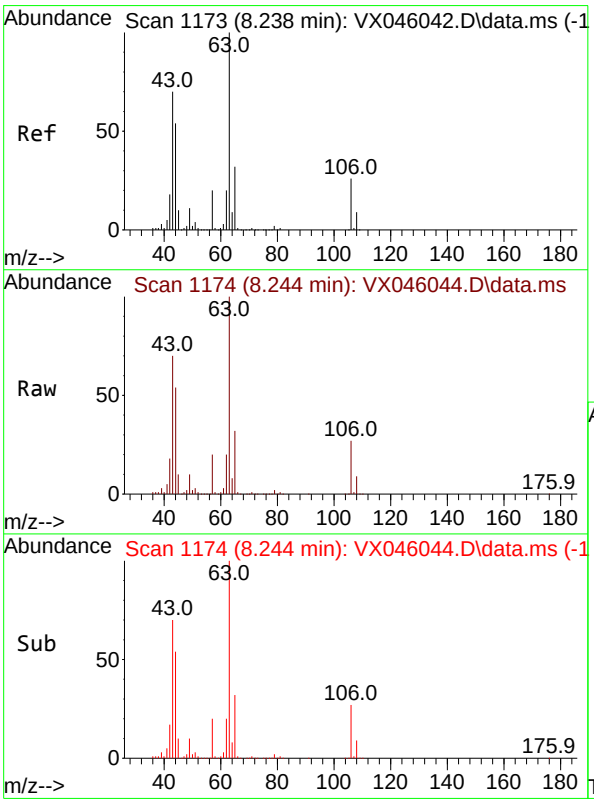
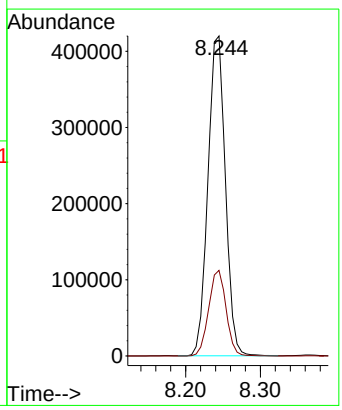
Supervised By :Mahesh Dadoda 05/06/2025

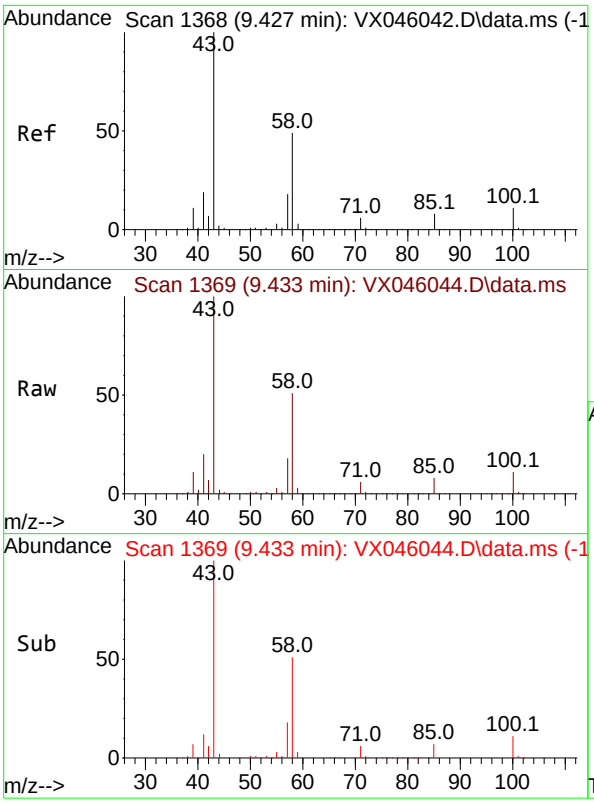



#58
2-Chloroethyl Vinyl ether
Concen: 697.344 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 63 Resp: 680608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.7 | 21.5 | 32.3 |






#59
2-Hexanone
Concen: 571.094 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

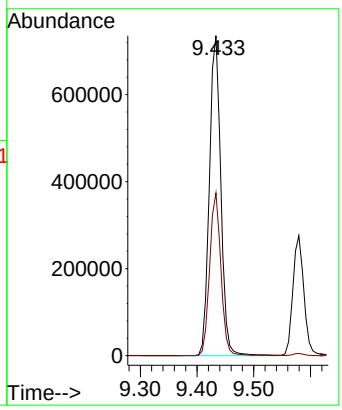
Tgt Ion: 43 Resp: 102859

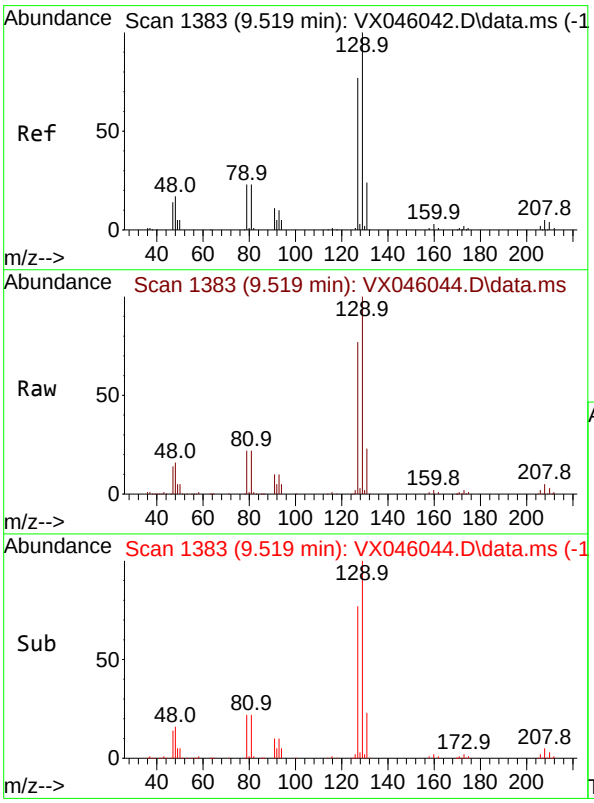
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 50.2 | 24.9 | 74.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

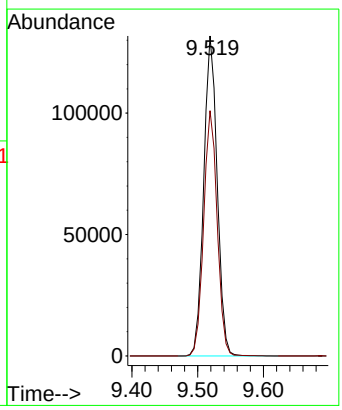


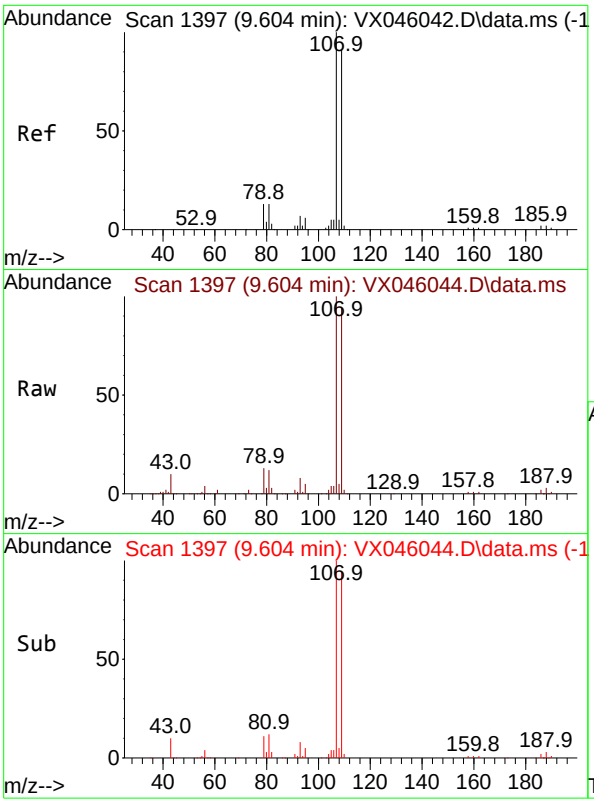




#60
Dibromochloromethane
Concen: 122.915 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:129 Resp: 187497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.1 | 39.3 | 117.8 |

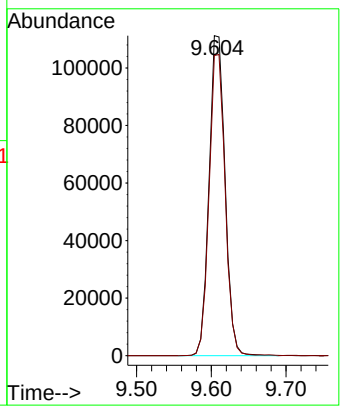





#61
1,2-Dibromoethane
Concen: 115.087 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:107 Resp: 16563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.6 | 73.3 | 109.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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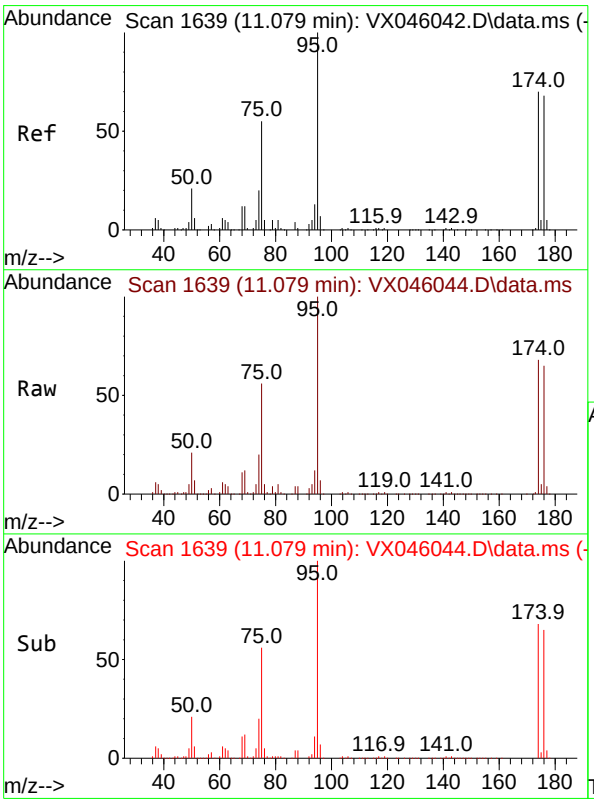
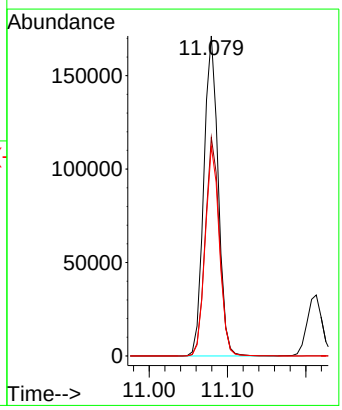
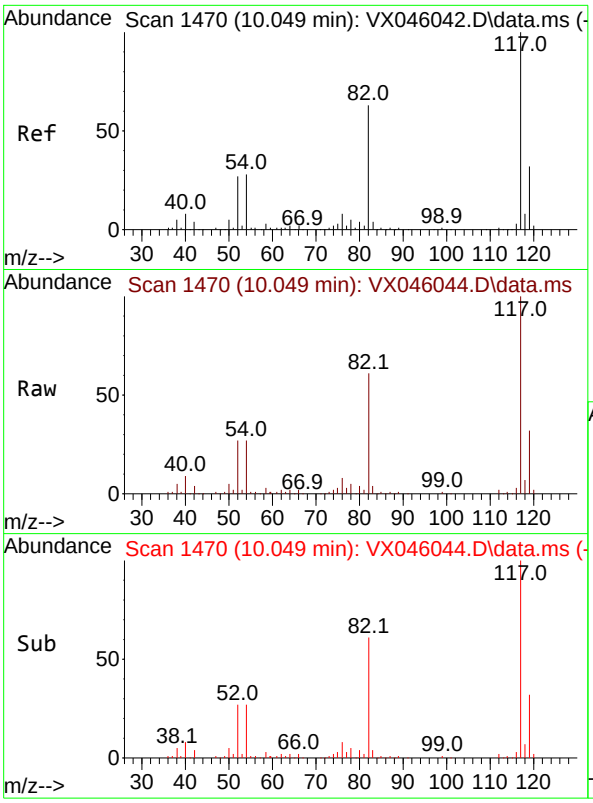



#62
4-Bromofluorobenzene
Concen: 109.174 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 95 Resp: 217536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.5 | 0.0 | 135.8 |
| 176 | 64.4 | 0.0 | 131.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:117 Resp: 12855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.4 | 50.6 | 76.0 |
| 119 | 31.9 | 25.8 | 38.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

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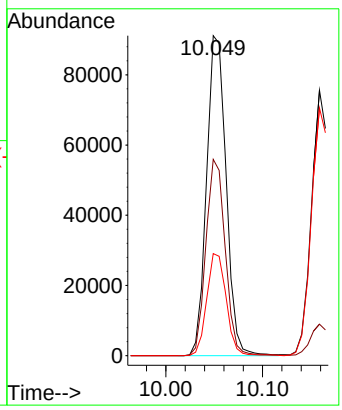
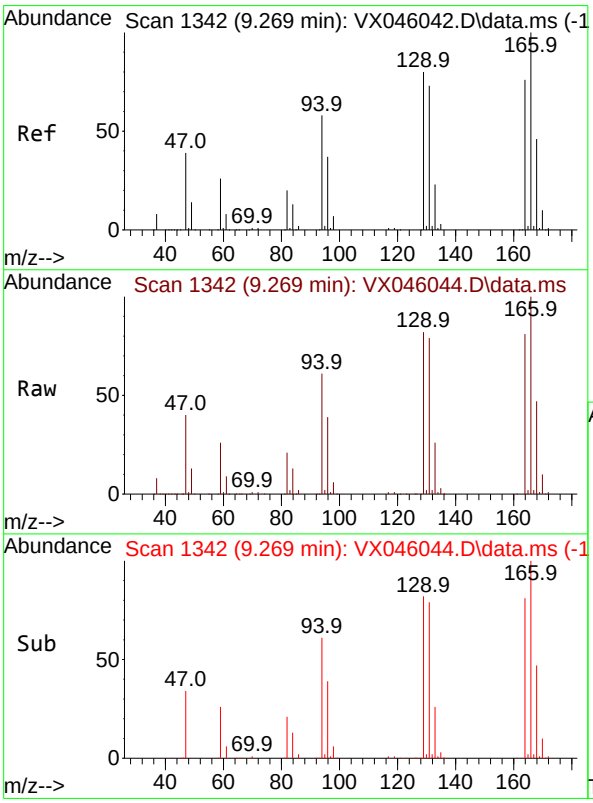
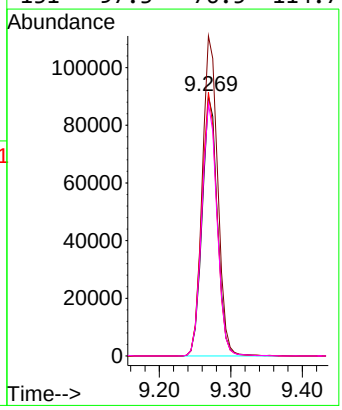


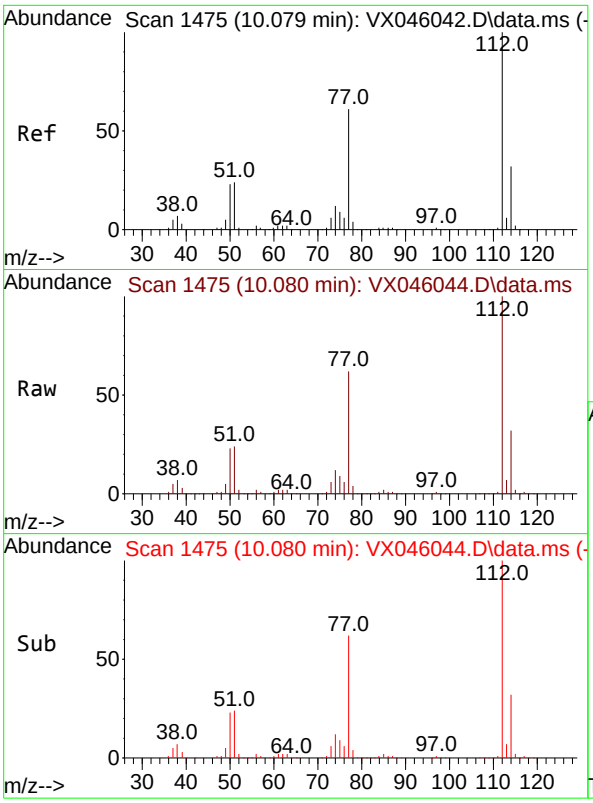




#64
Tetrachloroethene
Concen: 100.918 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:164 Resp: 132488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 123.3 | 105.0 | 157.6 |
| 129 | 101.6 | 83.5 | 125.3 |
| 131 | 97.3 | 76.5 | 114.7 |

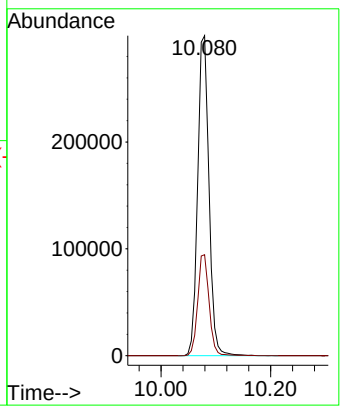





#65
Chlorobenzene
Concen: 108.615 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:112 Resp: 42965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.5 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
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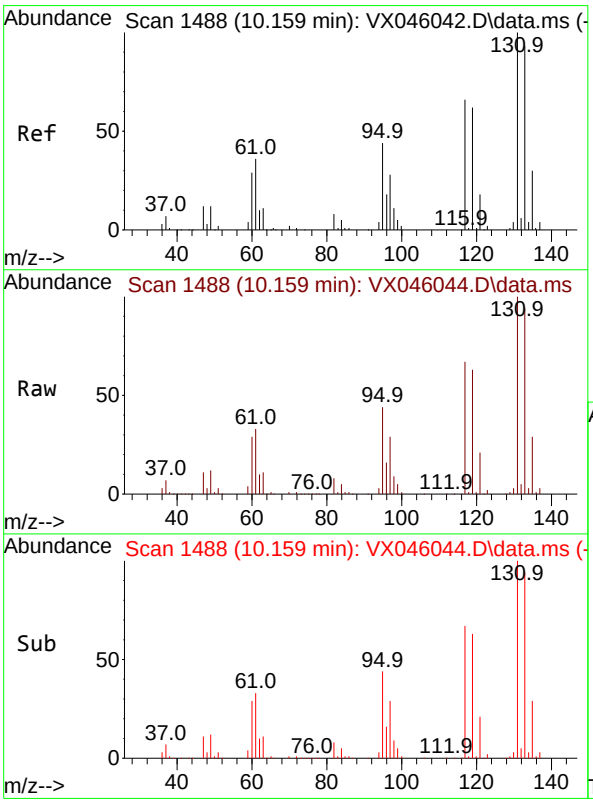
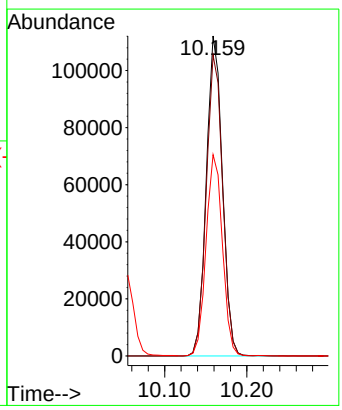
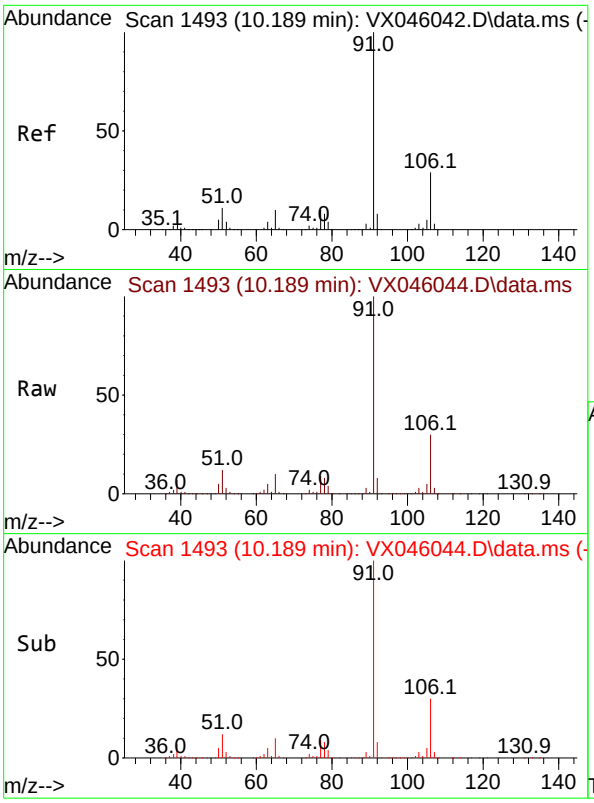



#66
1,1,1,2-Tetrachloroethane
Concen: 115.333 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:131 Resp: 152173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.7 | 47.3 | 141.9 |
| 119 | 64.0 | 31.6 | 95.0 |






#67
Ethyl Benzene
Concen: 116.421 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 91 Resp: 78512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.9 | 23.4 | 35.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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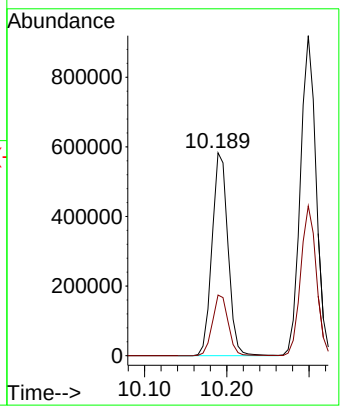
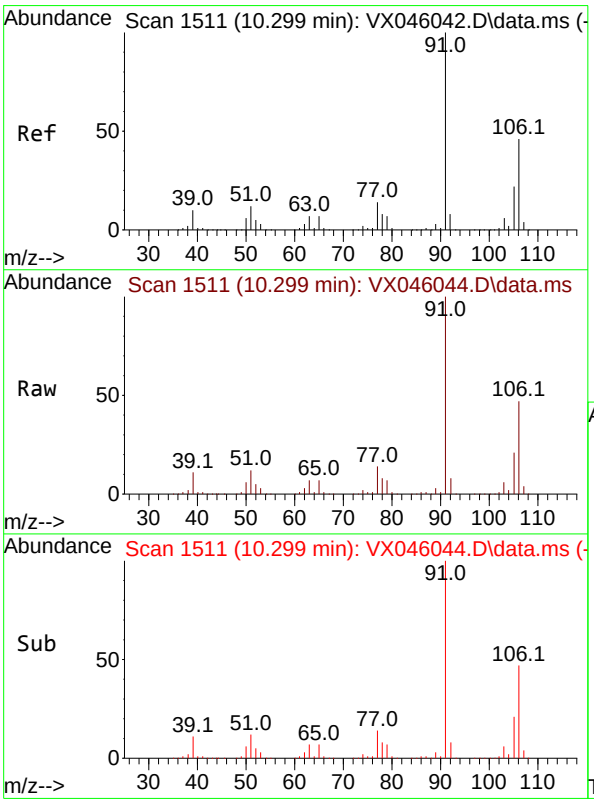
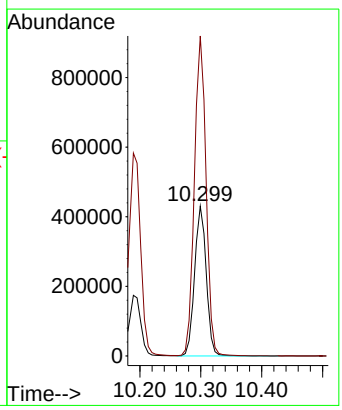


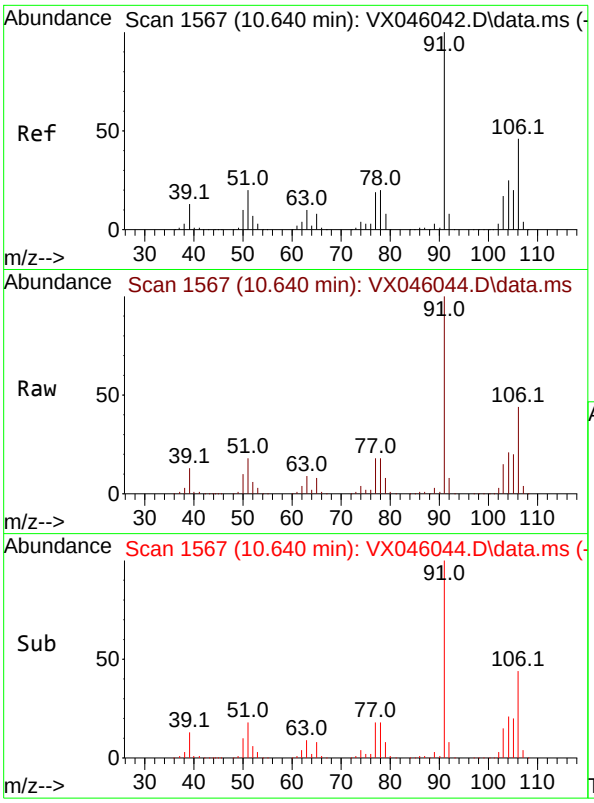




#68
m/p-Xylenes
Concen: 234.349 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:106 Resp: 570913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 214.2 | 171.2 | 256.8 |

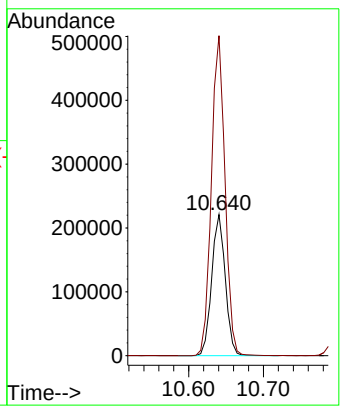





#69
o-Xylene
Concen: 113.990 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:106 Resp: 27990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 226.9 | 112.7 | 338.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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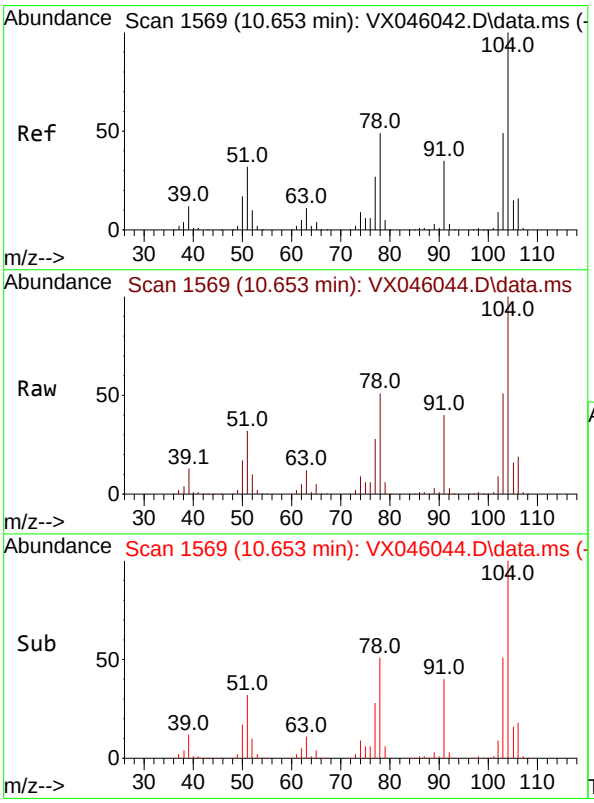
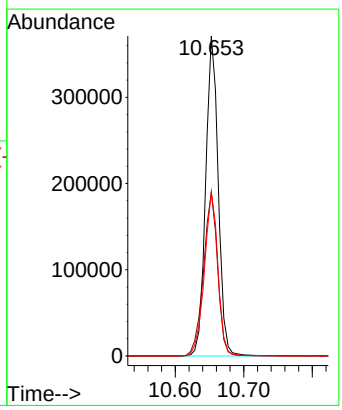
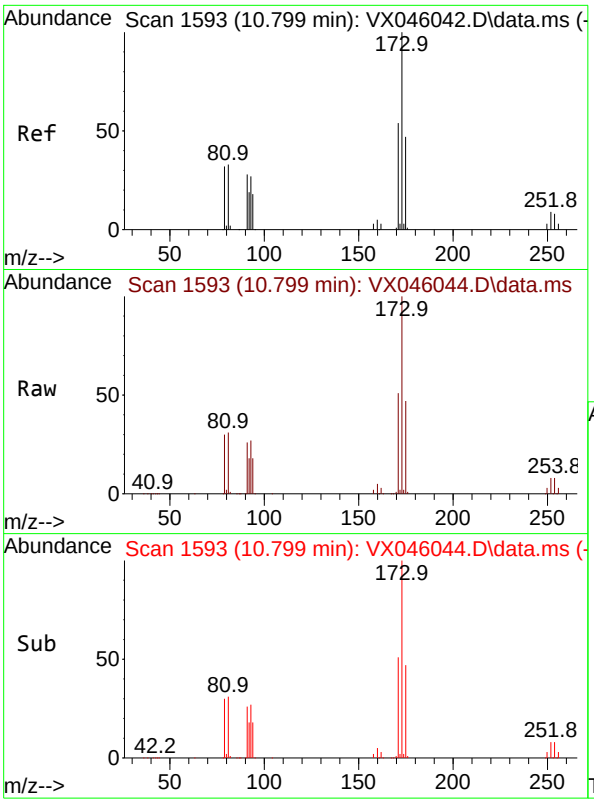



#70
Styrene
Concen: 120.694 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:104 Resp: 474254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 57.2 | 45.7 | 68.5 |
| 103 | 55.5 | 43.7 | 65.5 |

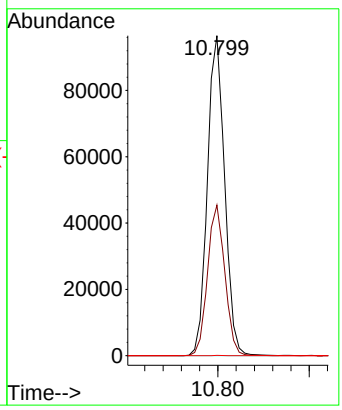





#71
Bromoform
Concen: 127.128 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:173 Resp: 12598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.3 | 23.4 | 70.0 |
| 254 | 0.1 | 0.0 | 0.0# |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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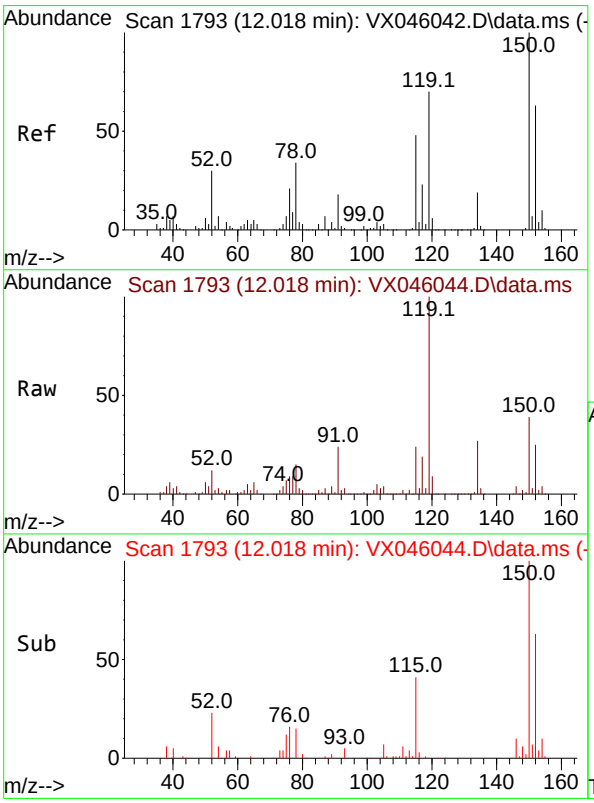
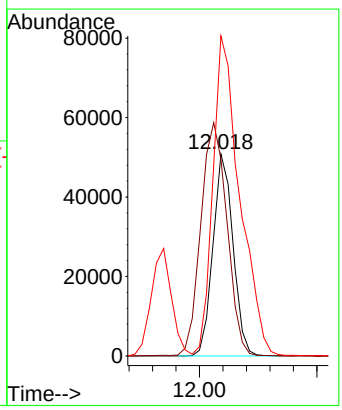
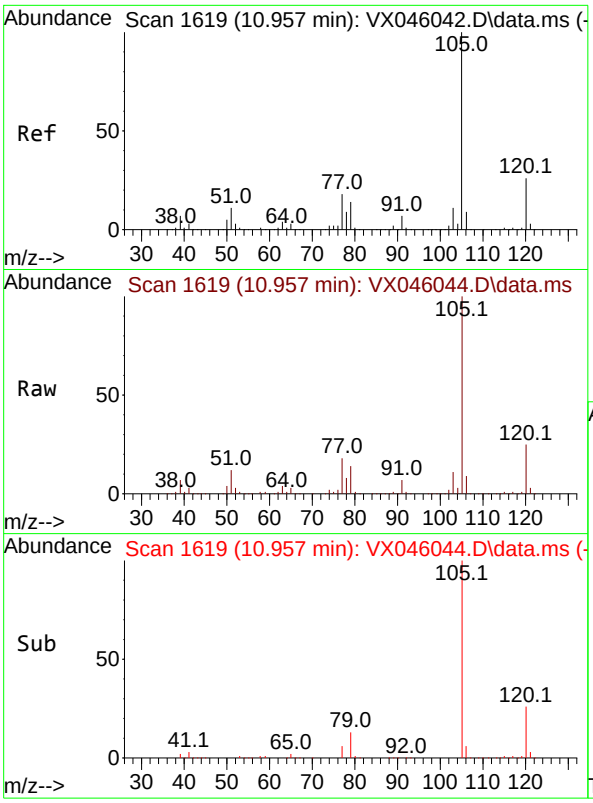



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:152 Resp: 60345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 150.7 | 46.9 | 140.7# |
| 150 | 211.6 | 0.0 | 351.0 |






#73
Isopropylbenzene
Concen: 114.312 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:105 Resp: 75233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.3 | 12.8 | 38.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

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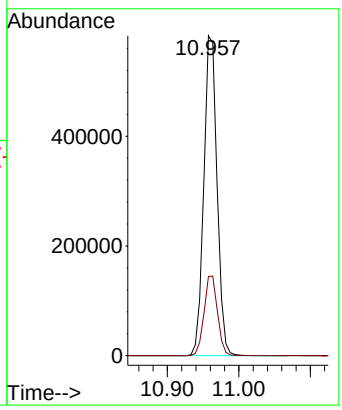
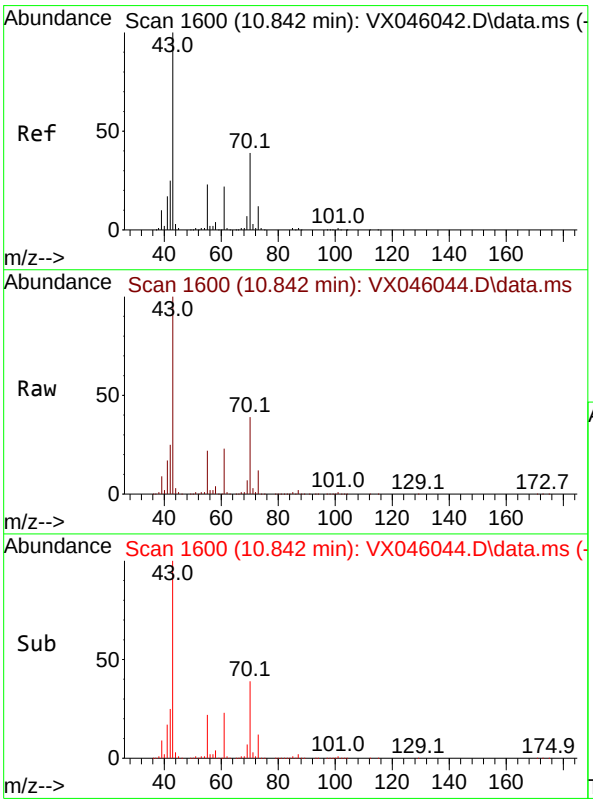
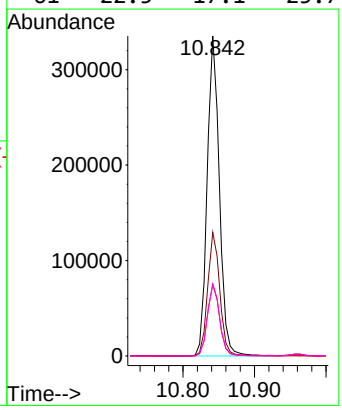


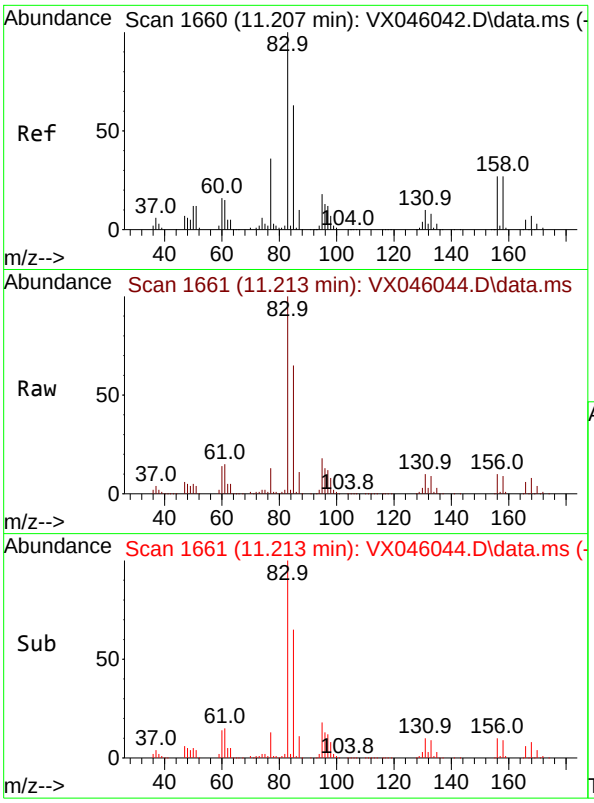




#74
N-amyl acetate
Concen: 120.944 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 396877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 38.5 | 30.9 | 46.3 |
| 55 | 22.5 | 18.7 | 28.1 |
| 61 | 22.5 | 17.1 | 25.7 |

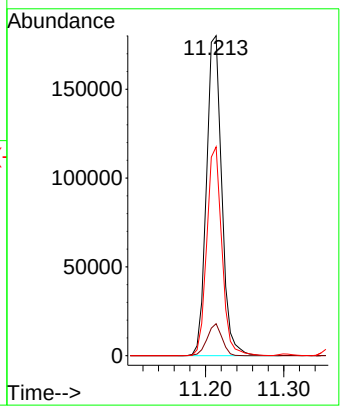





#75
1,1,2,2-Tetrachloroethane
Concen: 104.018 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 83 Resp: 24353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.7 | 5.0 | 14.9 |
| 85 | 64.4 | 31.9 | 95.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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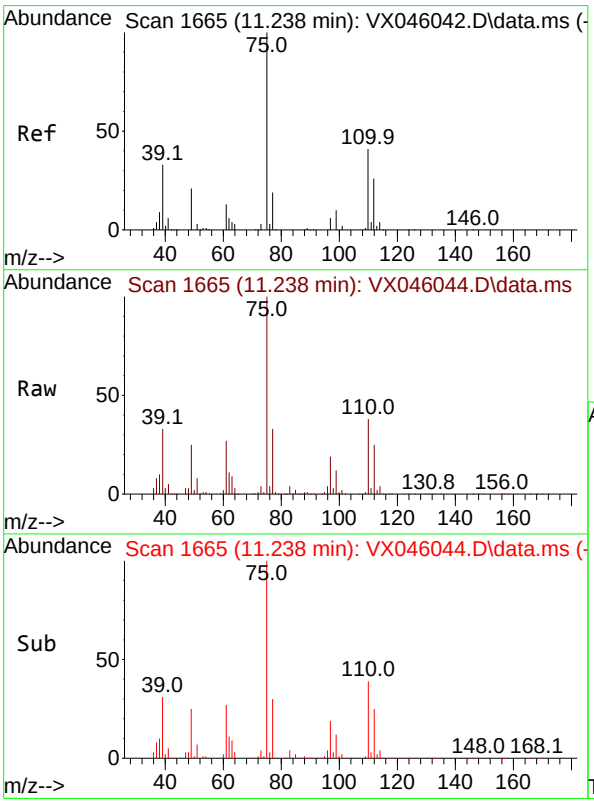
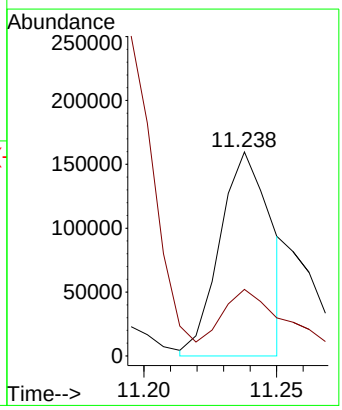
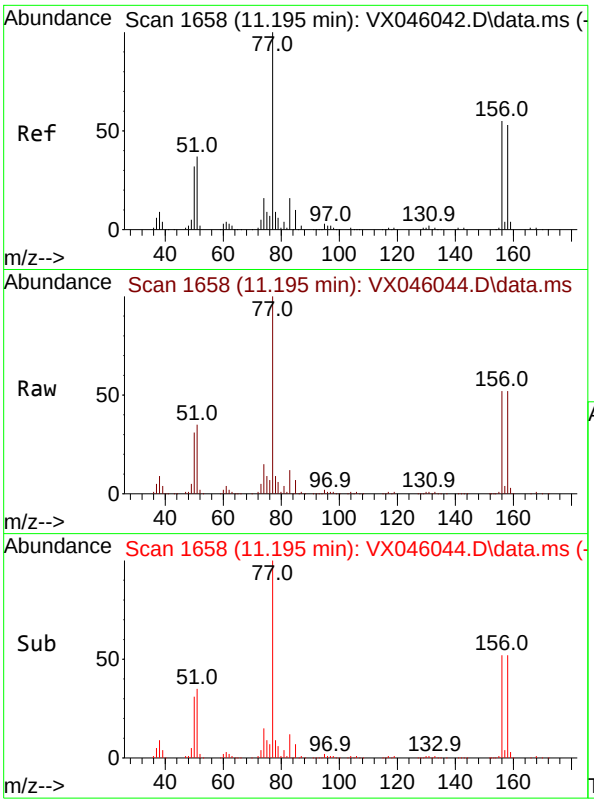



#76
1,2,3-Trichloropropane
Concen: 84.960 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 213744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 42.4 | 20.5 | 61.5 |

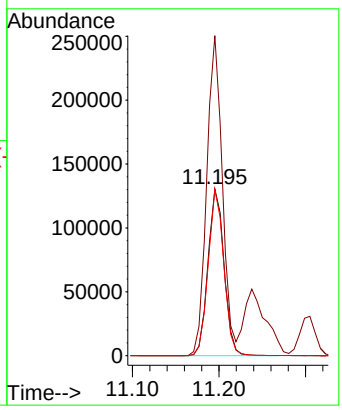





#77
Bromobenzene
Concen: 110.297 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:156 Resp: 16793

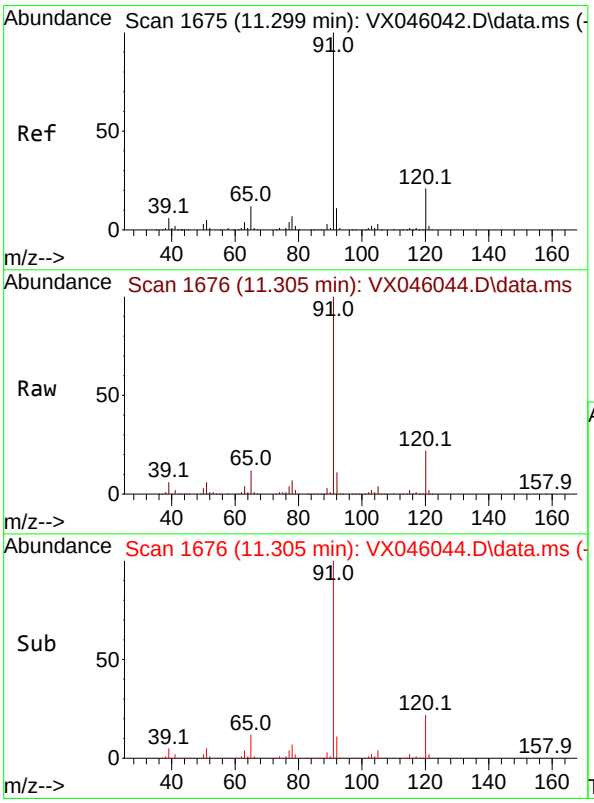
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 187.1 | 92.8 | 278.3 |
| 158 | 97.3 | 48.8 | 146.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

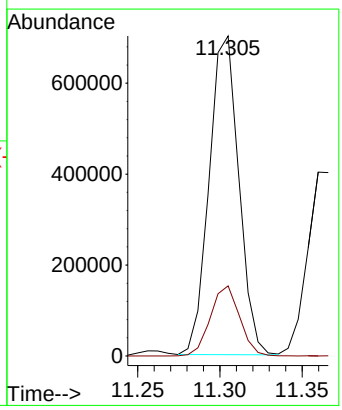
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

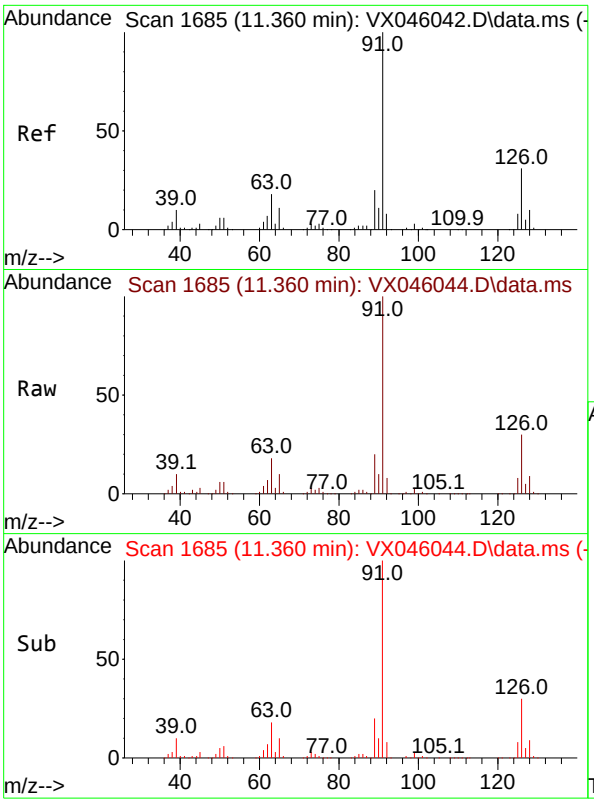



#78
n-propylbenzene
Concen: 119.448 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 91 Resp: 881218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.7 | 10.8 | 32.4 |

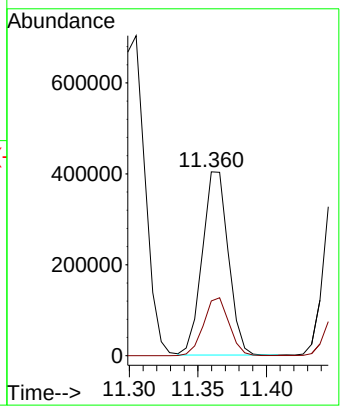





#79
2-Chlorotoluene
Concen: 107.514 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 91 Resp: 53456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.0 | 15.6 | 46.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
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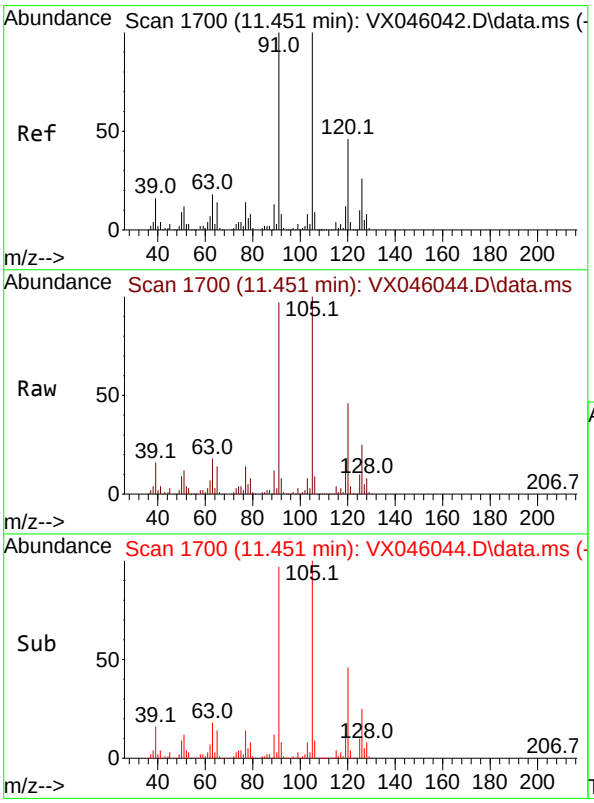
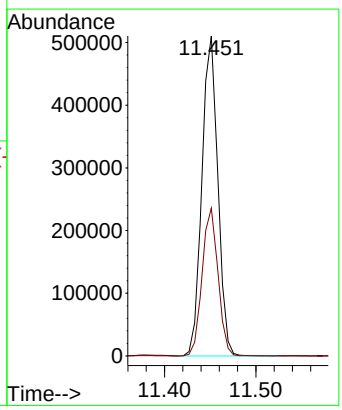
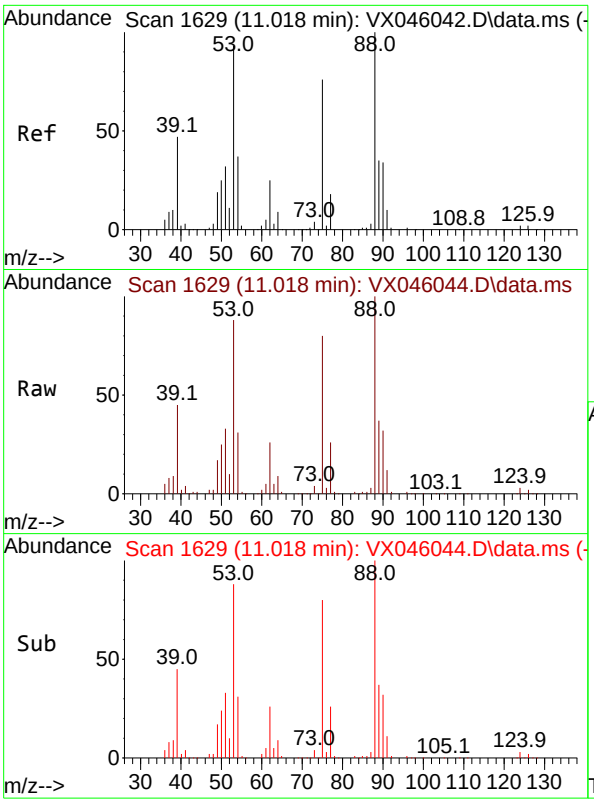



#80
1,3,5-Trimethylbenzene
Concen: 112.825 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:105 Resp: 616477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.0 | 23.1 | 69.2 |






#81
trans-1,4-Dichloro-2-butene
Concen: 134.609 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

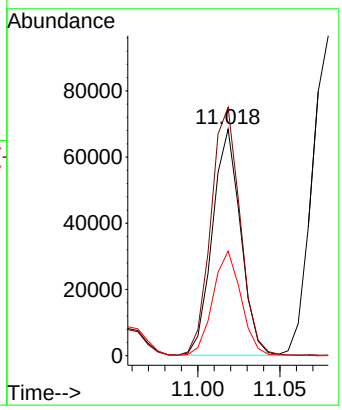
Tgt Ion: 75 Resp: 8137

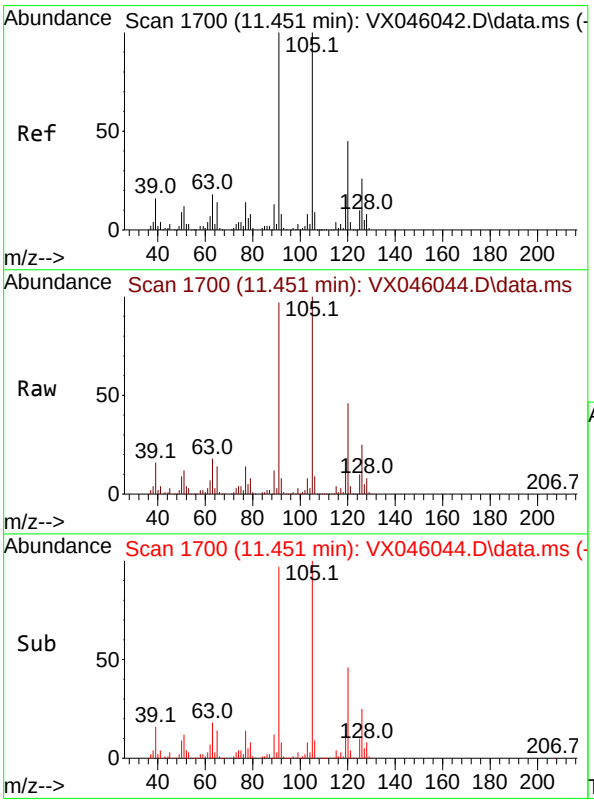
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 114.9 | 100.5 | 150.7 |
| 89 | 46.5 | 37.0 | 55.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

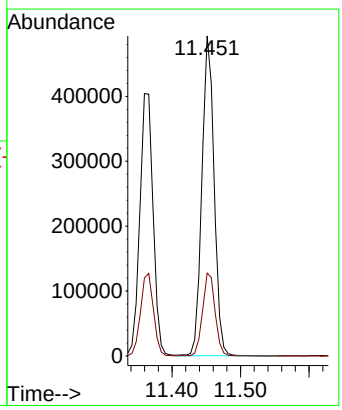


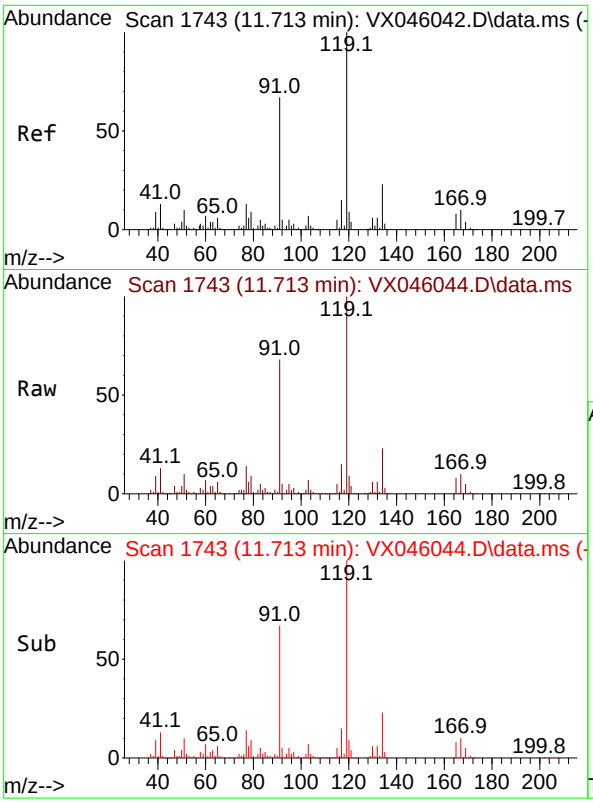




#82
4-Chlorotoluene
Concen: 111.948 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 91 Resp: 611736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 26.7 | 13.3 | 39.8 |

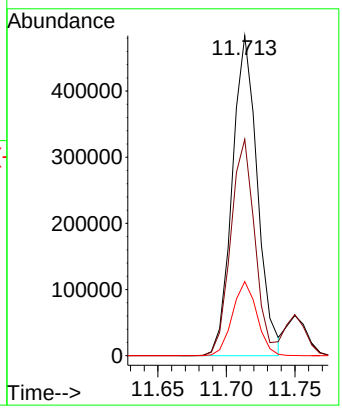





#83
tert-Butylbenzene
Concen: 115.065 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:119 Resp: 61747

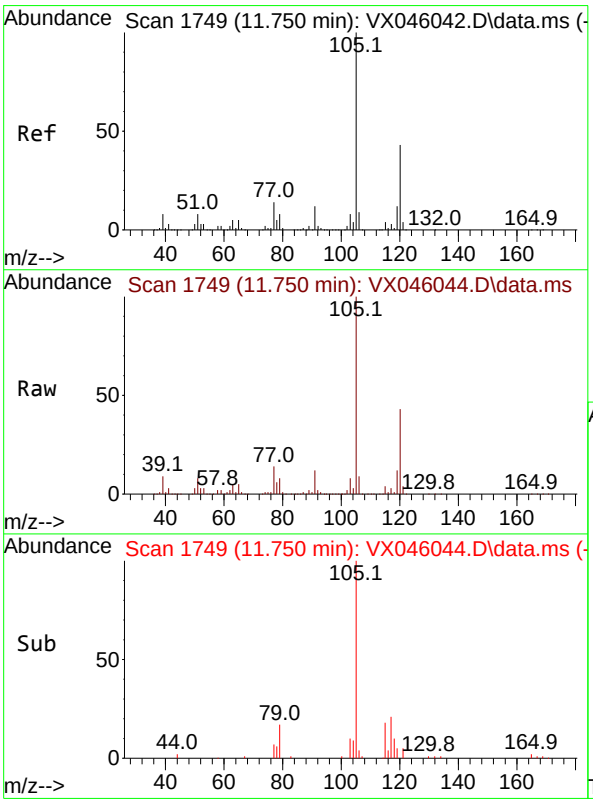
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.6 | 32.9 | 98.7 |
| 134 | 22.6 | 11.4 | 34.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

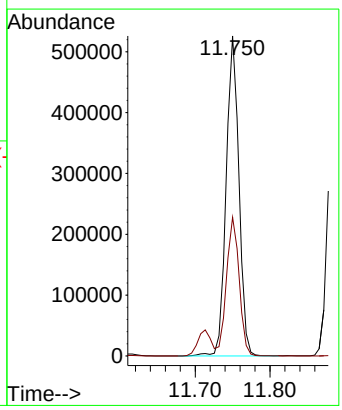
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

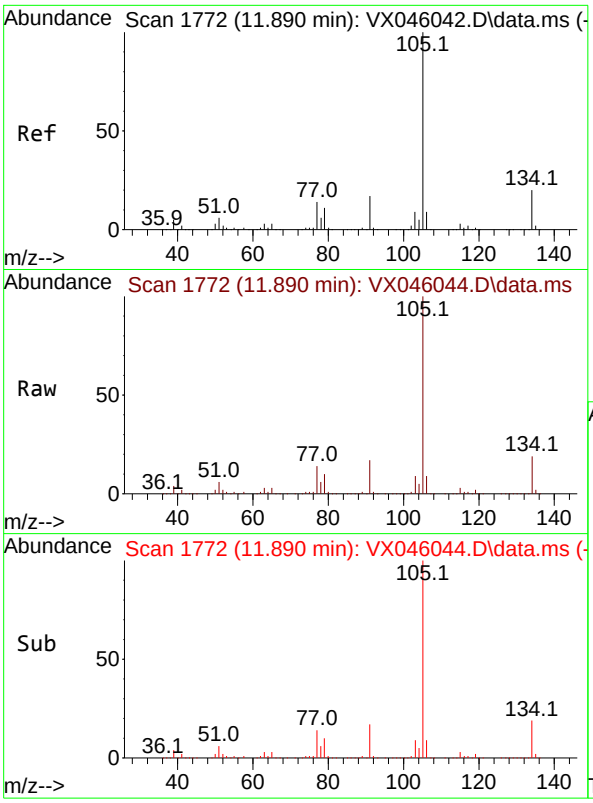



#84
1,2,4-Trimethylbenzene
Concen: 114.236 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:105 Resp: 623456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.1 | 21.2 | 63.6 |

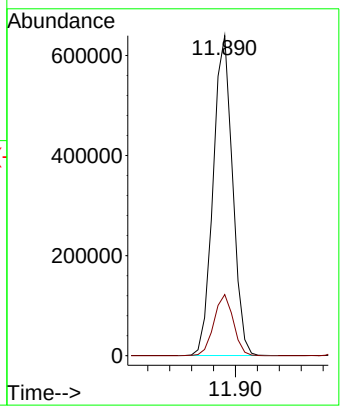





#85
sec-Butylbenzene
Concen: 118.023 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:105 Resp: 78629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.1 | 9.7 | 29.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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Reviewed By :John Carlone 05/06/2025
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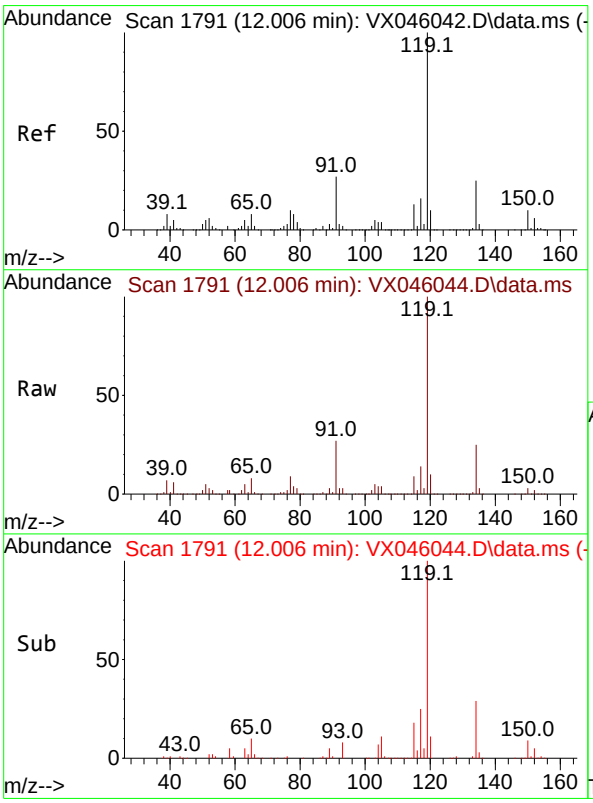
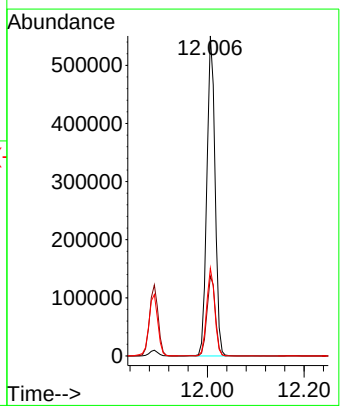
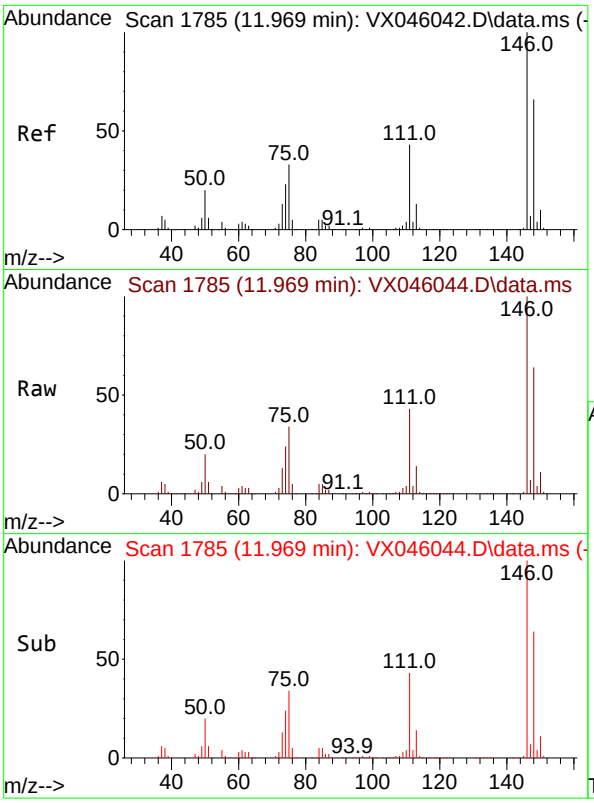



#86
p-Isopropyltoluene
Concen: 121.113 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:119 Resp: 651531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.4 | 12.5 | 37.5 |
| 91 | 27.0 | 13.8 | 41.4 |

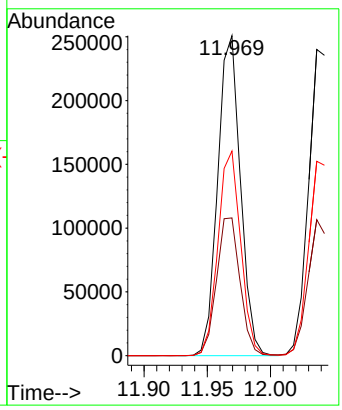





#87
1,3-Dichlorobenzene
Concen: 110.394 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:146 Resp: 31310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.5 | 22.1 | 66.3 |
| 148 | 64.0 | 32.1 | 96.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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Reviewed By :John Carlone 05/06/2025
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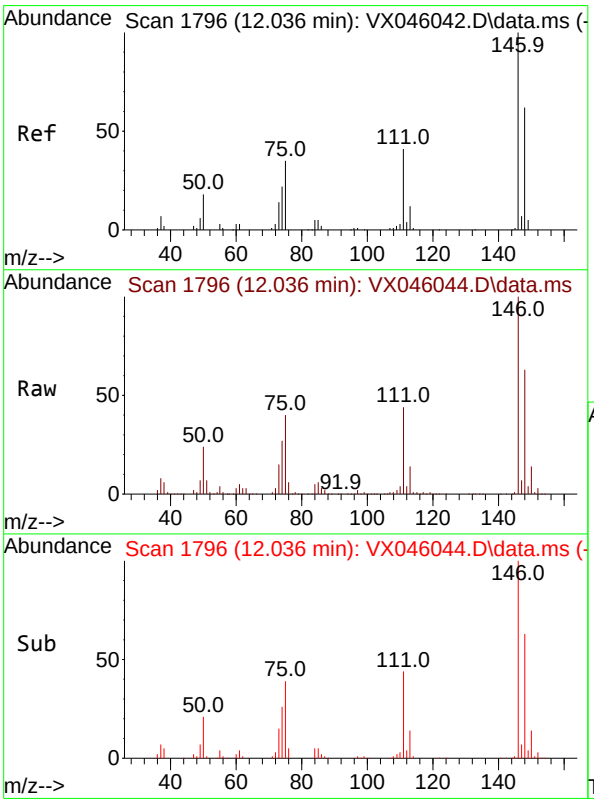
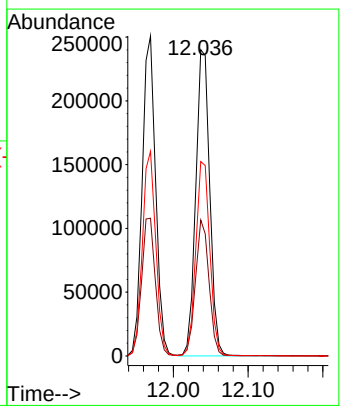
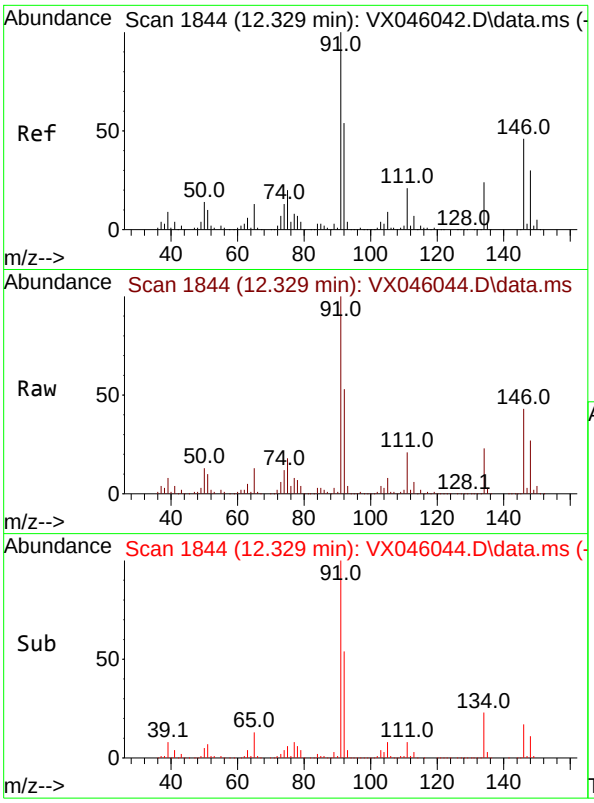



#88
1,4-Dichlorobenzene
Concen: 112.167 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:146 Resp: 311752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.0 | 21.3 | 63.9 |
| 148 | 63.9 | 31.9 | 95.5 |

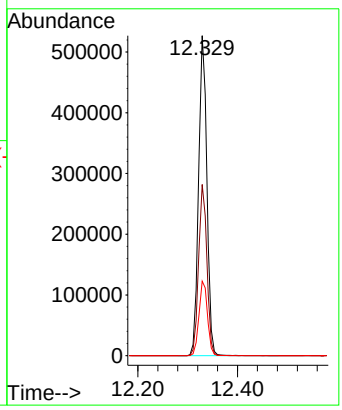





#89
n-Butylbenzene
Concen: 129.533 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 91 Resp: 60578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.6 | 26.9 | 80.7 |
| 134 | 24.0 | 11.8 | 35.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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Reviewed By :John Carlone 05/06/2025
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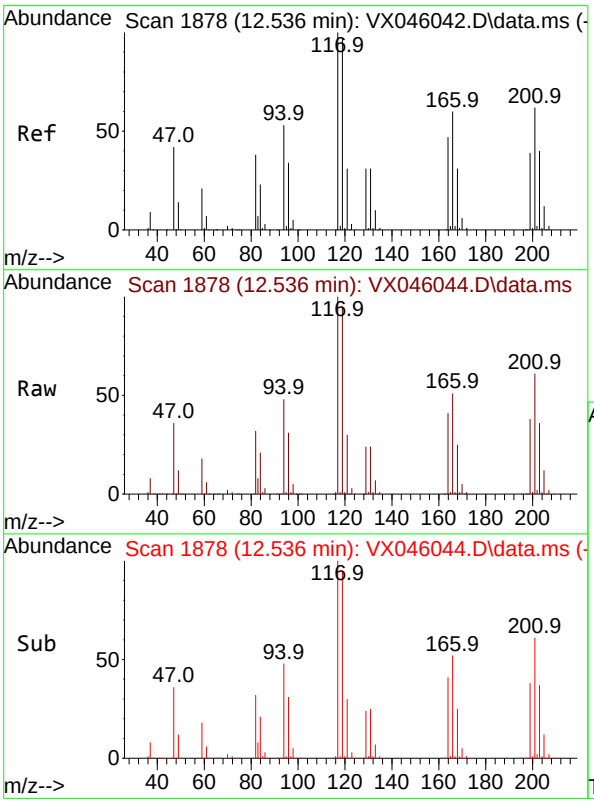
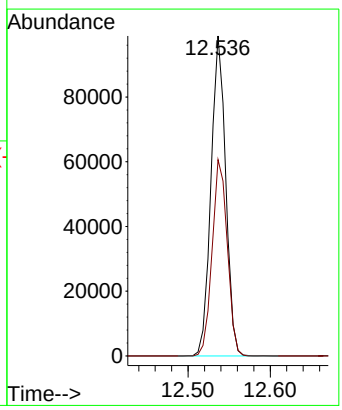
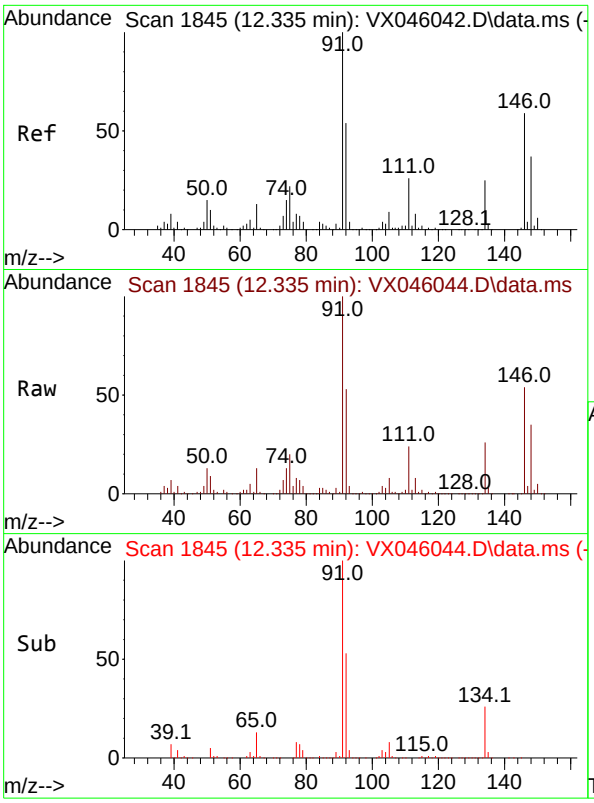



#90
Hexachloroethane
Concen: 123.091 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:117 Resp: 123188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.2 | 31.6 | 94.7 |

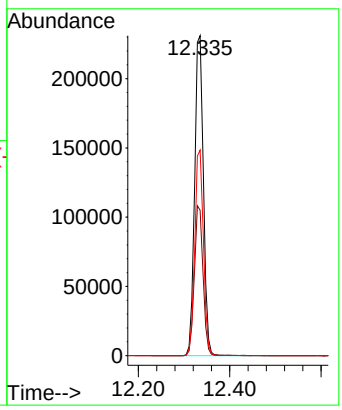





#91
1,2-Dichlorobenzene
Concen: 111.506 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:146 Resp: 30803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.3 | 22.4 | 67.3 |
| 148 | 63.6 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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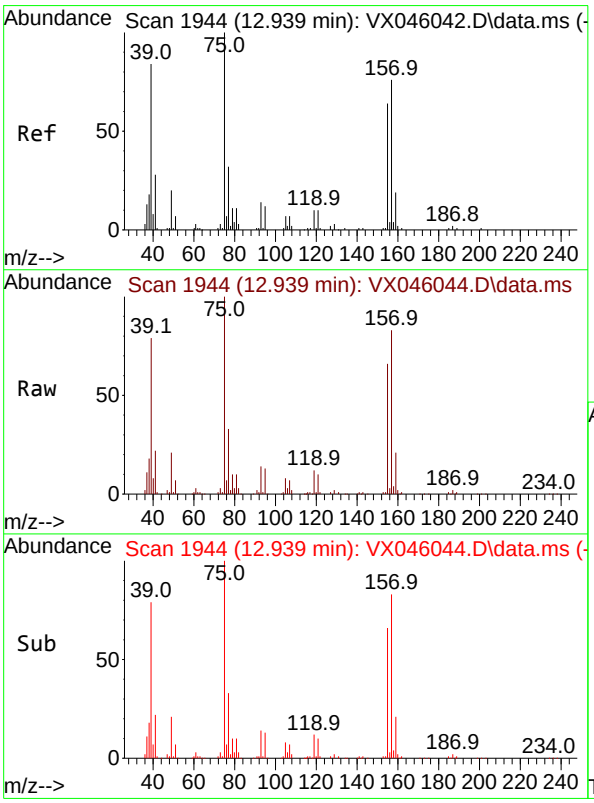
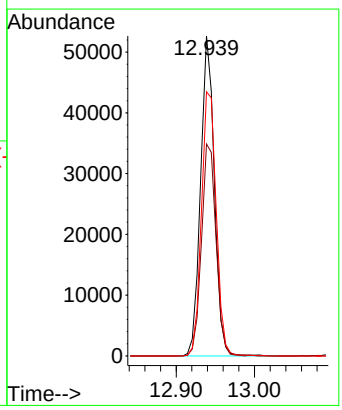
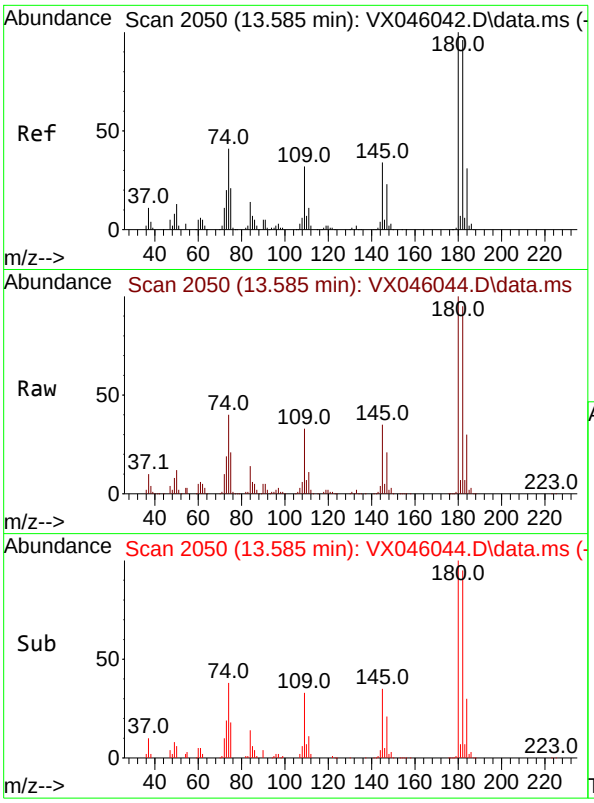



#92
1,2-Dibromo-3-Chloropropane
Concen: 120.915 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 64438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 69.6 | 34.9 | 104.8 |
| 157 | 88.4 | 43.8 | 131.4 |

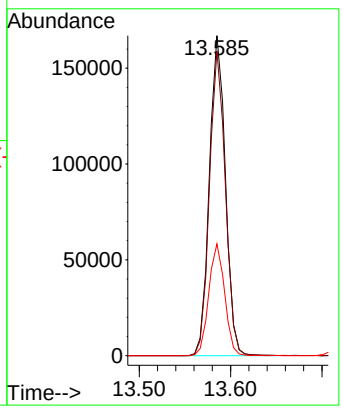





#93
1,2,4-Trichlorobenzene
Concen: 134.366 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:180 Resp: 20325

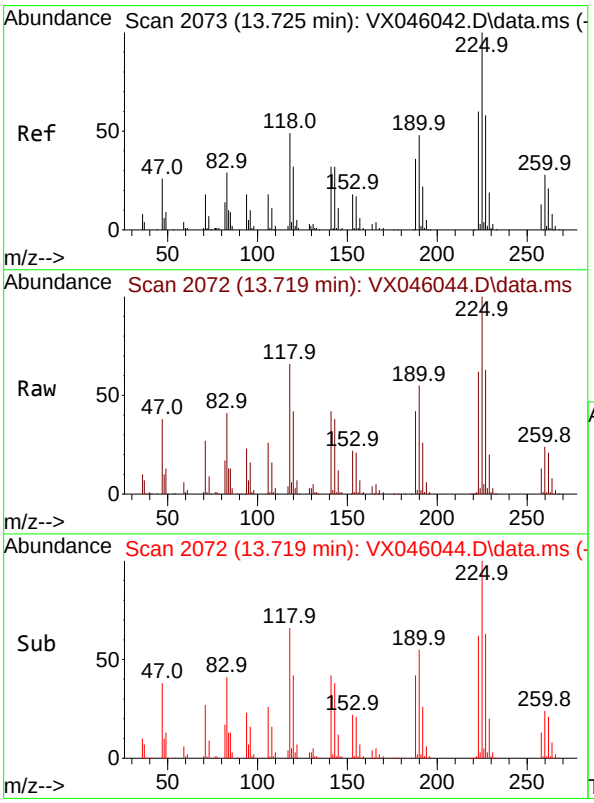
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.1 | 47.9 | 143.8 |
| 145 | 34.5 | 17.1 | 51.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

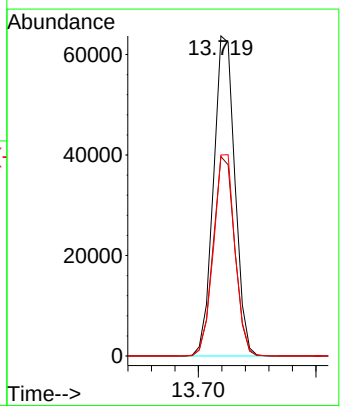
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

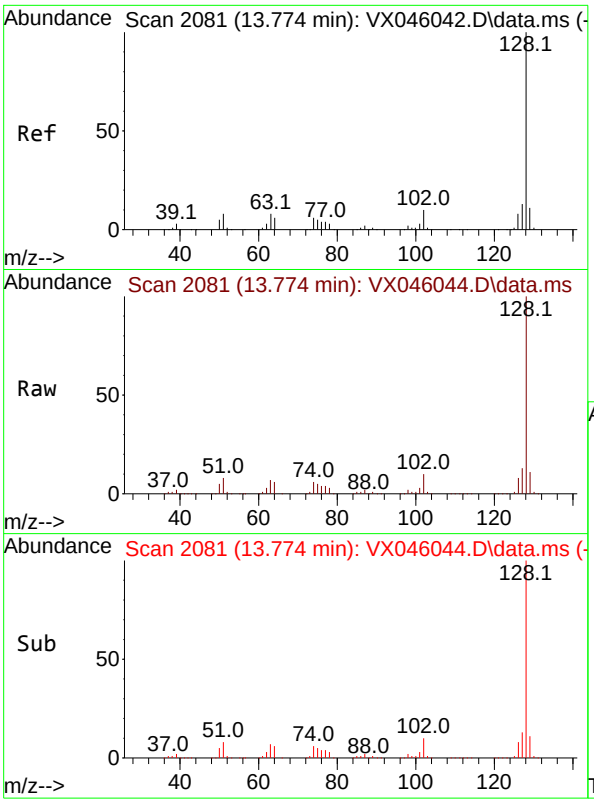



#94
Hexachlorobutadiene
Concen: 113.857 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:225 Resp: 80558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.5 | 30.8 | 92.4 |
| 227 | 63.1 | 30.9 | 92.7 |

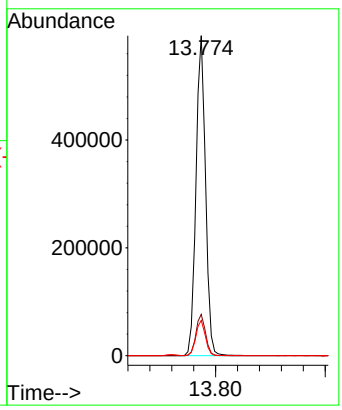





#95
Naphthalene
Concen: 130.929 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:128 Resp: 72123

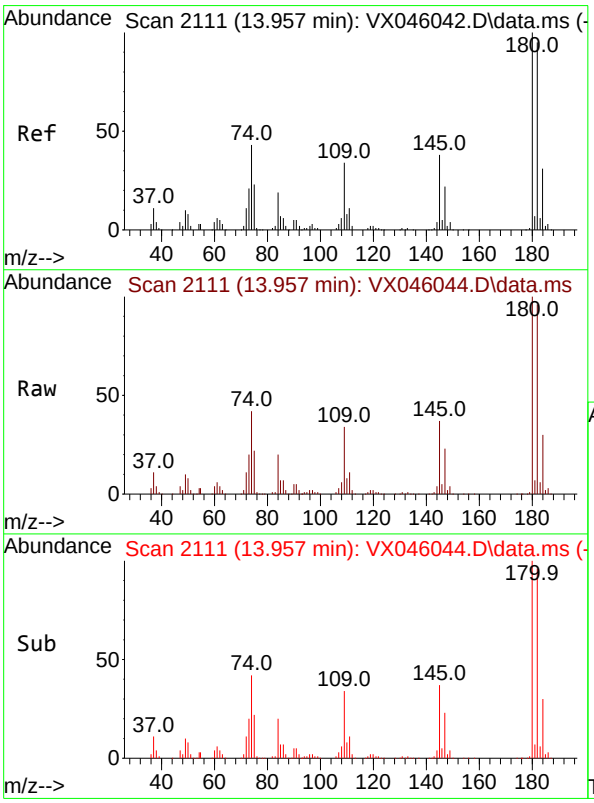
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.4 | 15.6 |
| 129 | 11.0 | 8.6 | 13.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

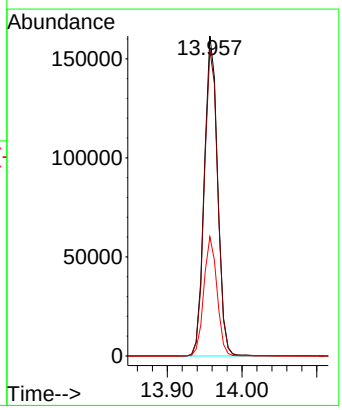
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025




#96
1,2,3-Trichlorobenzene
Concen: 126.331 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:180 Resp: 200379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.5 | 47.8 | 143.3 |
| 145 | 36.7 | 18.1 | 54.3 |



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.538 | 168 | 96964 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 168484 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 147167 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 67939 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 9067 | 3.143 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 6.280%# | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 5969 | 3.161 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 6.320%# | | |
| 50) Toluene-d8 | 8.647 | 98 | 20566 | 3.232 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 6.460%# | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 7822 | 3.378 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 6.760%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 6195 | 2.894 | ug/l | 95 |
| 3) Chloromethane | 1.307 | 50 | 6587 | 3.125 | ug/l | 99 |
| 4) Vinyl Chloride | 1.374 | 62 | 5999 | 3.249 | ug/l | 96 |
| 5) Bromomethane | 1.593 | 94 | 2962 | 3.164 | ug/l | 88 |
| 6) Chloroethane | 1.666 | 64 | 3567 | 3.750 | ug/l | 94 |
| 7) Trichlorofluoromethane | 1.874 | 101 | 9599 | 3.413 | ug/l | 88 |
| 8) Diethyl Ether | 2.130 | 74 | 3020 | 3.266 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 2.325 | 101 | 5911 | 3.517 | ug/l | 99 |
| 10) Methyl Iodide | 2.441 | 142 | 5900 | 2.990 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.965 | 59 | 5539 | 16.111 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 2.306 | 96 | 5496 | 3.359 | ug/l | 97 |
| 13) Acrolein | 2.233 | 56 | 5673 | 14.206 | ug/l | 95 |
| 14) Allyl chloride | 2.654 | 41 | 10262 | 3.319 | ug/l | 98 |
| 15) Acrylonitrile | 3.062 | 53 | 16746 | 16.282 | ug/l | 97 |
| 16) Acetone | 2.380 | 43 | 19773 | 20.036 | ug/l | 98 |
| 17) Carbon Disulfide | 2.501 | 76 | 11068 | 2.919 | ug/l | 96 |
| 18) Methyl Acetate | 2.703 | 43 | 7909 | 3.357 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 18497 | 3.241 | ug/l | 97 |
| 20) Methylene Chloride | 2.782 | 84 | 6680 | 3.341 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 5402 | 3.234 | ug/l | 100 |
| 22) Diisopropyl ether | 3.751 | 45 | 18657 | 3.230 | ug/l # | 65 |
| 23) Vinyl Acetate | 3.715 | 43 | 82328 | 16.127 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 11193 | 3.297 | ug/l | 99 |
| 25) 2-Butanone | 4.562 | 43 | 26125 | 18.340 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 4.465 | 77 | 8245 | 3.205 | ug/l | 96 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 6222 | 3.089 | ug/l | 95 |
| 28) Bromochloromethane | 4.891 | 49 | 5360 | 2.969 | ug/l # | 100 |
| 29) Tetrahydrofuran | 5.001 | 42 | 15431 | 16.680 | ug/l | 98 |
| 30) Chloroform | 5.080 | 83 | 11624 | 3.294 | ug/l | 89 |
| 31) Cyclohexane | 5.458 | 56 | 10269 | 3.588 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 5.367 | 97 | 9827 | 3.229 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 5.678 | 75 | 7787 | 3.551 | ug/l | 98 |
| 37) Ethyl Acetate | 4.721 | 43 | 9806m | 3.565 | ug/l | |
| 38) Carbon Tetrachloride | 5.659 | 117 | 8505 | 3.376 | ug/l | 97 |
| 39) Methylcyclohexane | 7.373 | 83 | 9882 | 3.597 | ug/l | 93 |
| 40) Benzene | 6.031 | 78 | 22528 | 3.315 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 4851 | 3.174 | ug/l | # | 65 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 10011 | 3.563 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.348 | 43 | 13914 | 3.309 | ug/l | | 96 |
| 44) Trichloroethene | 7.123 | 130 | 5313 | 3.307 | ug/l | | 94 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 5451 | 3.228 | ug/l | # | 89 |
| 46) Dibromomethane | 7.580 | 93 | 4417 | 3.318 | ug/l | | 98 |
| 47) Bromodichloromethane | 7.818 | 83 | 8394 | 3.254 | ug/l | | 98 |
| 48) Methyl methacrylate | 7.696 | 41 | 7171 | 3.321 | ug/l | | 97 |
| 49) 1,4-Dioxane | 7.659 | 88 | 2907 | 67.721 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 8.567 | 43 | 46794 | 16.967 | ug/l | | 98 |
| 52) Toluene | 8.714 | 92 | 14126 | 3.505 | ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 6834 | 3.155 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 7908 | 3.129 | ug/l | | 91 |
| 55) 1,1,2-Trichloroethane | 9.153 | 97 | 5685 | 3.490 | ug/l | | 98 |
| 56) Ethyl methacrylate | 9.116 | 69 | 8555 | 3.390 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 10127 | 3.508 | ug/l | | 94 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 20809 | 18.346 | ug/l | | 99 |
| 59) 2-Hexanone | 9.427 | 43 | 34853 | 16.651 | ug/l | | 97 |
| 60) Dibromochloromethane | 9.518 | 129 | 5500 | 3.102 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 5614 | 3.356 | ug/l | | 99 |
| 64) Tetrachloroethene | 9.269 | 164 | 4752 | 3.162 | ug/l | | 96 |
| 65) Chlorobenzene | 10.079 | 112 | 15391 | 3.399 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 5024 | 3.326 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.195 | 91 | 26732 | 3.463 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 19957 | 7.156 | ug/l | | 98 |
| 69) o-Xylene | 10.640 | 106 | 9398 | 3.343 | ug/l | | 95 |
| 70) Styrene | 10.652 | 104 | 14900 | 3.312 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 3470 | 3.059 | ug/l | # | 99 |
| 73) Isopropylbenzene | 10.957 | 105 | 24201 | 3.266 | ug/l | | 98 |
| 74) N-amyl acetate | 10.841 | 43 | 11224 | 3.038 | ug/l | | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 9170 | 3.479 | ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 7928m | 2.799 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 5857 | 3.417 | ug/l | | 96 |
| 78) n-propylbenzene | 11.299 | 91 | 28436 | 3.424 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 18672 | 3.336 | ug/l | | 97 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 20742 | 3.372 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 1828 | 2.686 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 19966 | 3.245 | ug/l | | 98 |
| 83) tert-Butylbenzene | 11.713 | 119 | 21049 | 3.484 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 20613 | 3.355 | ug/l | | 97 |
| 85) sec-Butylbenzene | 11.890 | 105 | 25590 | 3.412 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 20955 | 3.460 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 10585 | 3.315 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 10908 | 3.486 | ug/l | | 90 |
| 89) n-Butylbenzene | 12.329 | 91 | 18004 | 3.419 | ug/l | | 94 |
| 90) Hexachloroethane | 12.536 | 117 | 3553 | 3.153 | ug/l | | 94 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 10712 | 3.444 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75 | 1687 | 2.812 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 5720 | 3.359 | ug/l | | 96 |
| 94) Hexachlorobutadiene | 13.719 | 225 | 2816 | 3.535 | ug/l | | 96 |
| 95) Naphthalene | 13.774 | 128 | 19902 | 3.209 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 5745 | 3.217 | ug/l | | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

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

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

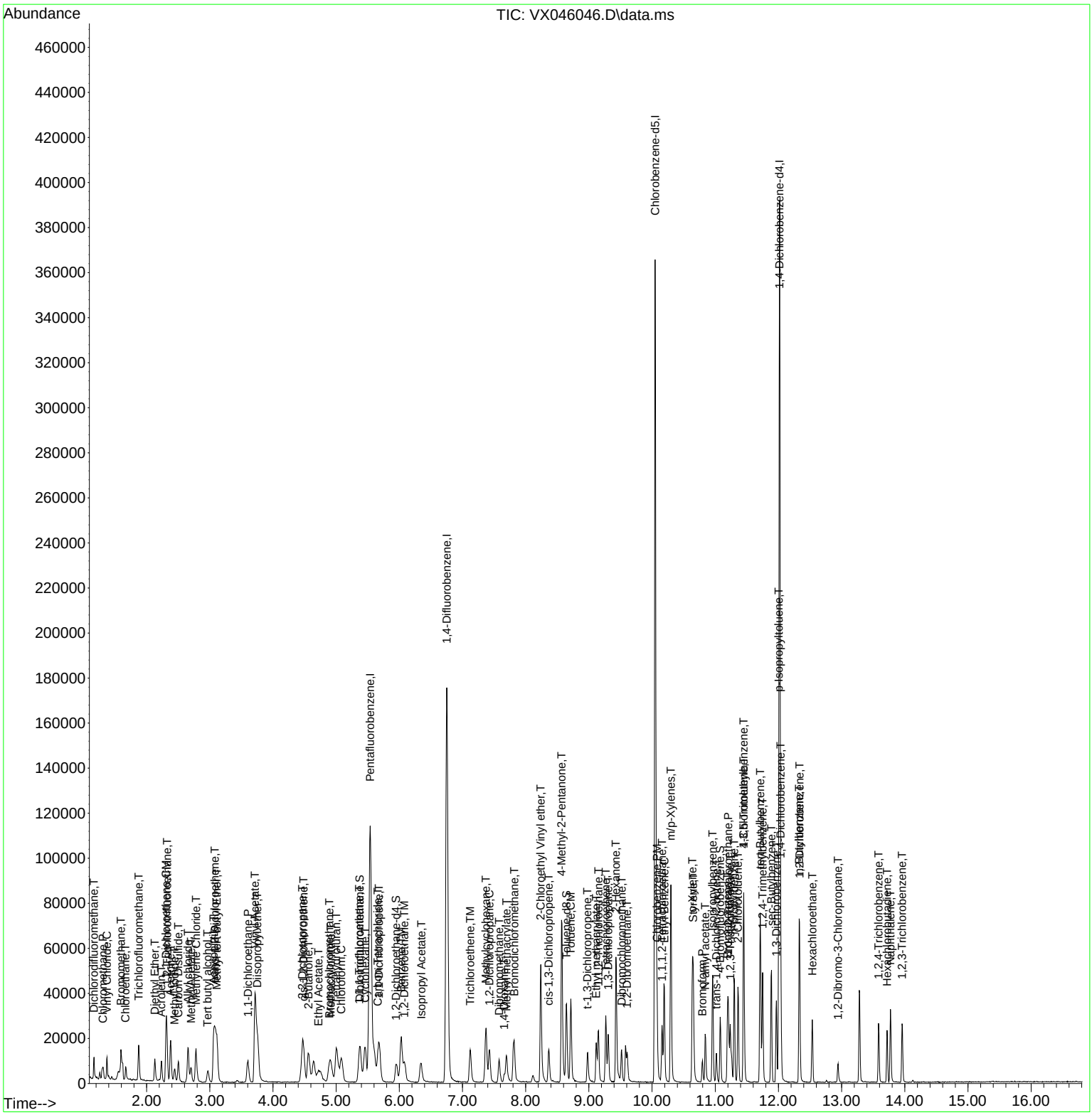
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

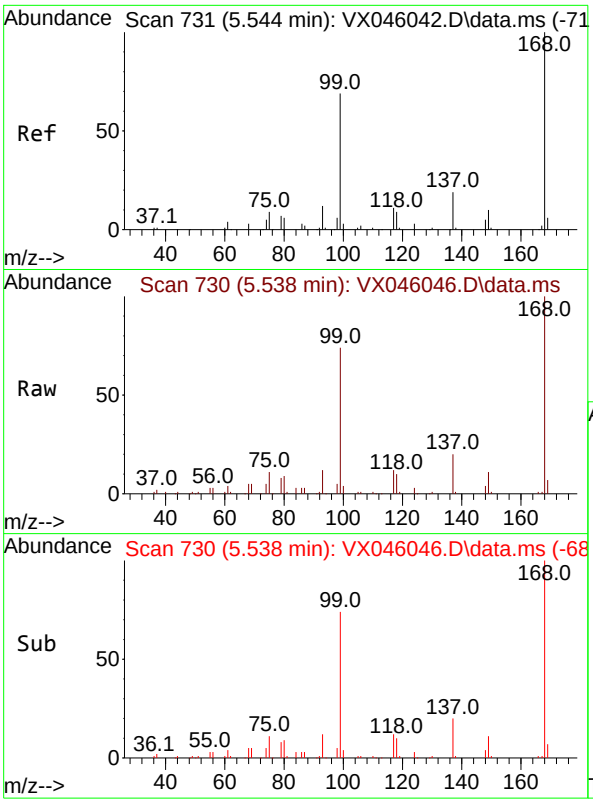
Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

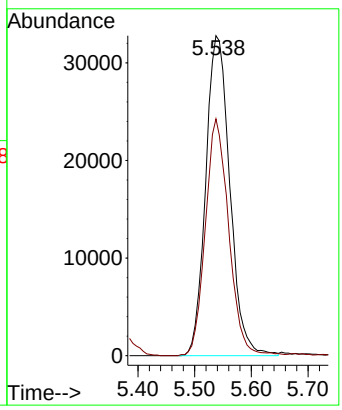





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:168 Resp: 9696

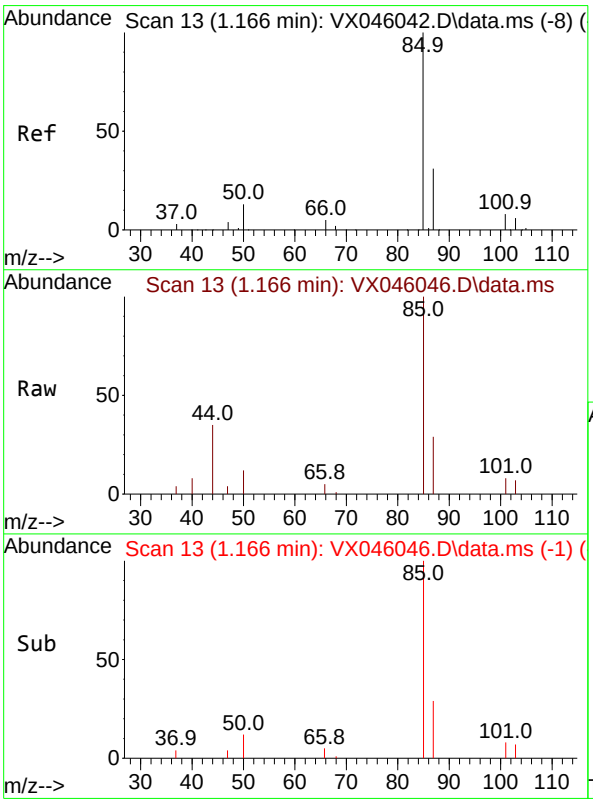
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 74.0 | 54.9 | 82.3 |




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

**Manual Integrations APPROVED**

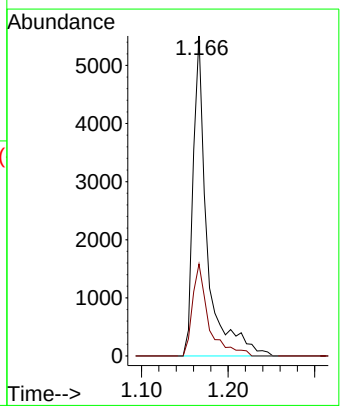
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

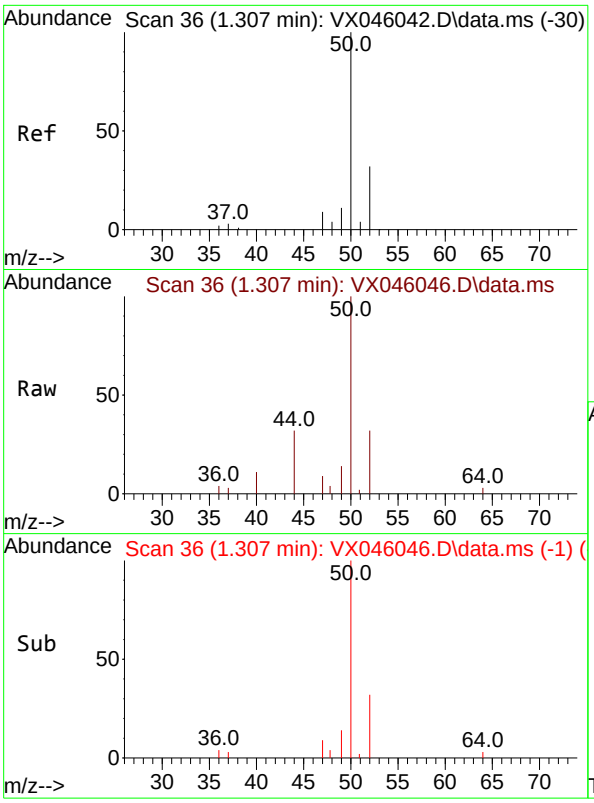



#2
Dichlorodifluoromethane
Concen: 2.894 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 85 Resp: 6195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 28.7 | 15.7 | 47.1 |

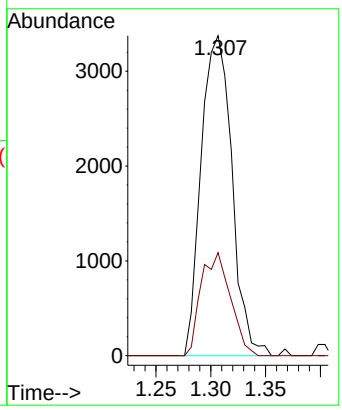





#3
Chloromethane
Concen: 3.125 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 50 Resp: 658

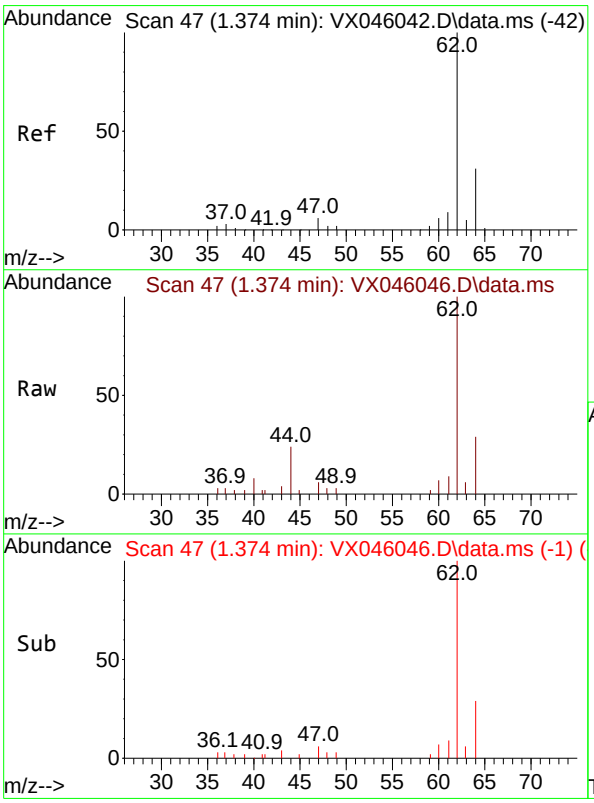
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.2 | 25.4 | 38.2 |




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

**Manual Integrations APPROVED**

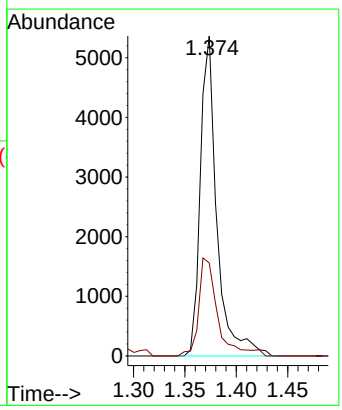
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

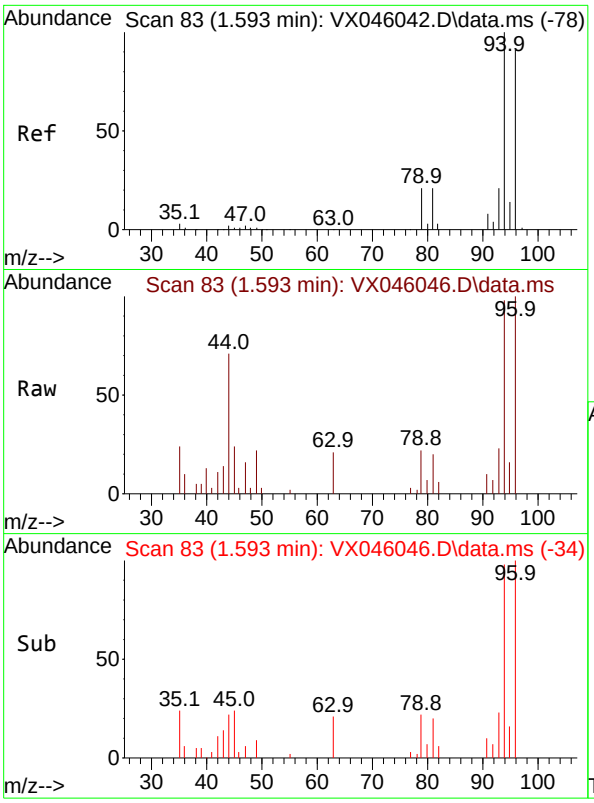



#4
Vinyl Chloride
Concen: 3.249 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 62 Resp: 5999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.1 | 25.2 | 37.8 |

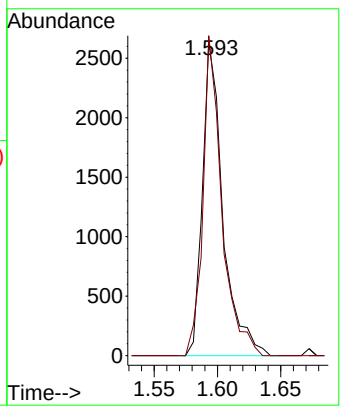





#5
Bromomethane
Concen: 3.164 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 94 Resp: 296

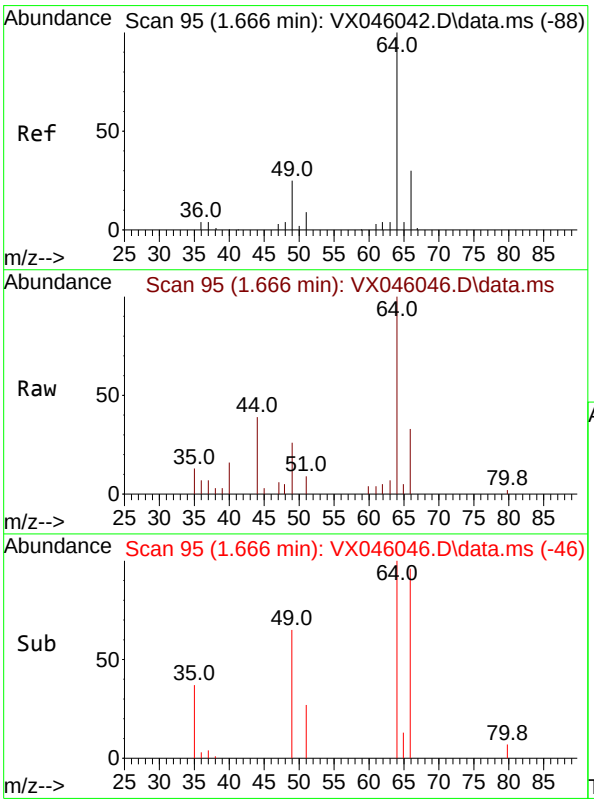
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 102.2 | 72.8 | 109.2 |




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

**Manual Integrations**
**APPROVED**

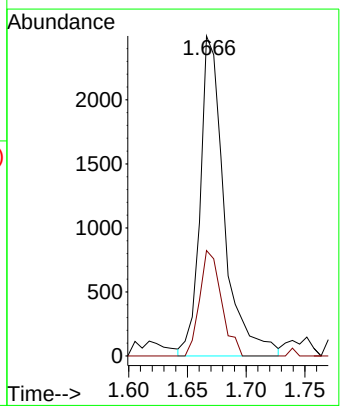
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

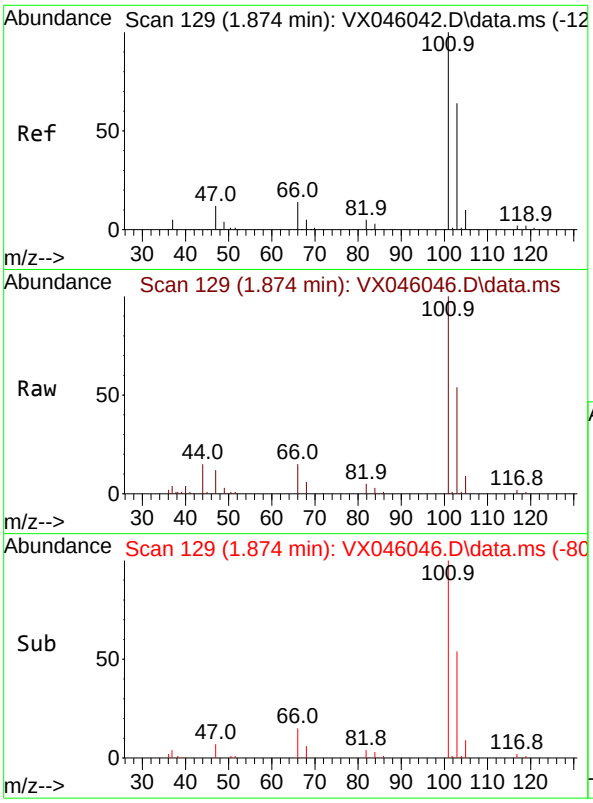



#6
Chloroethane
Concen: 3.750 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 64 Resp: 3567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.7 | 24.3 | 36.5 |

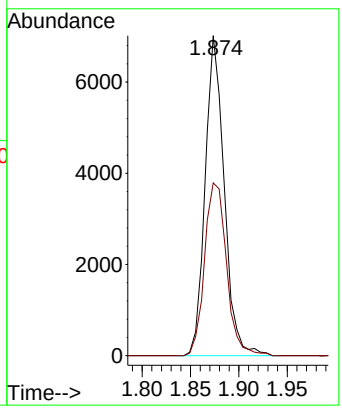





#7
Trichlorofluoromethane
Concen: 3.413 ug/l
RT: 1.874 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:101 Resp: 959

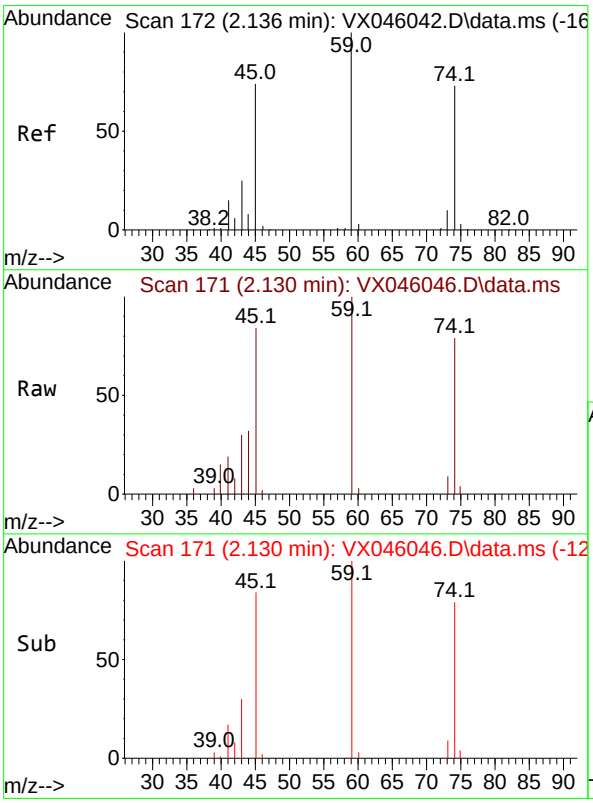
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 54.0 | 51.0 | 76.4 |




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

**Manual Integrations APPROVED**

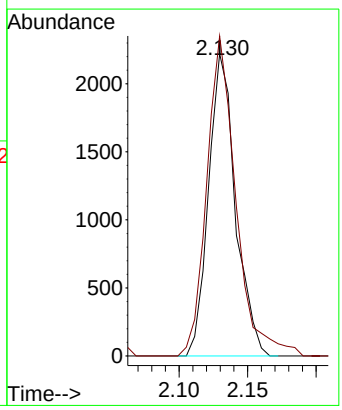
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

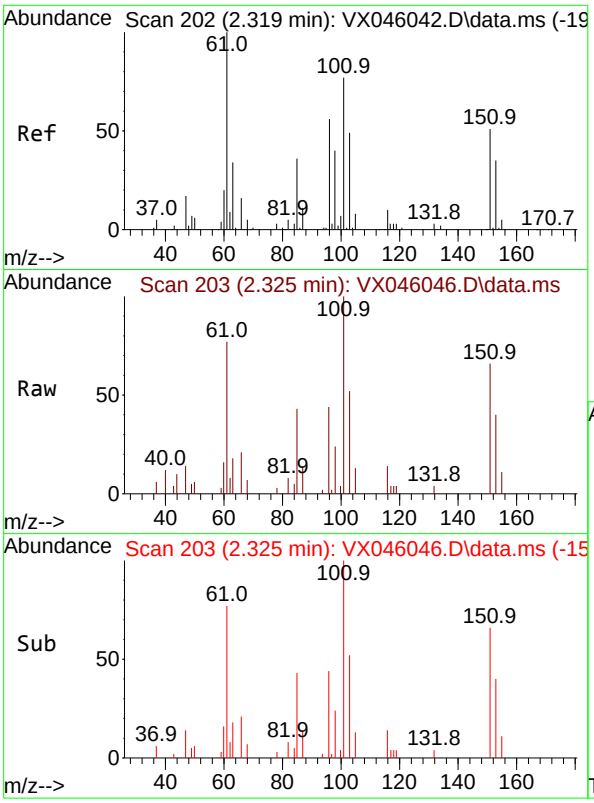



#8
Diethyl Ether
Concen: 3.266 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 74 Resp: 3020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 115.1 | 54.9 | 164.8 |

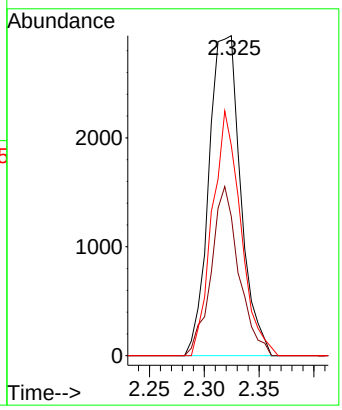





#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.517 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:101 Resp: 591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.3 | 38.6 | 58.0 |
| 151 | 68.8 | 55.2 | 82.8 |




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

**Manual Integrations**
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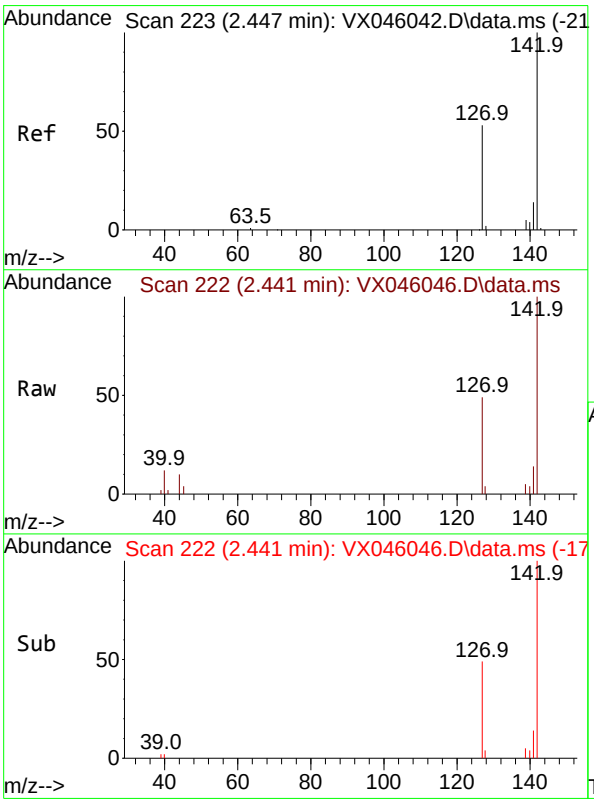
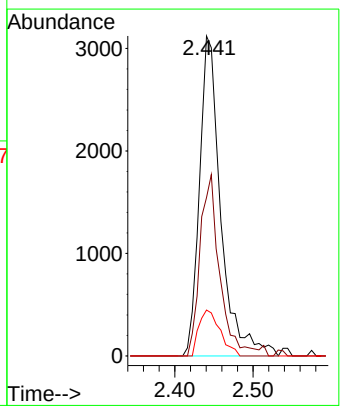
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

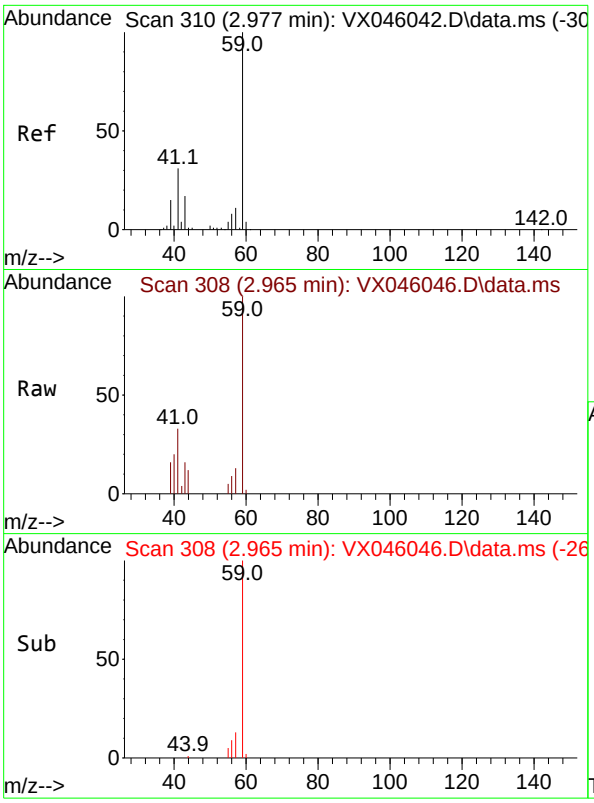



#10
Methyl Iodide
Concen: 2.990 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:142 Resp: 5900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 52.8 | 41.7 | 62.5 |
| 141 | 14.3 | 11.5 | 17.3 |

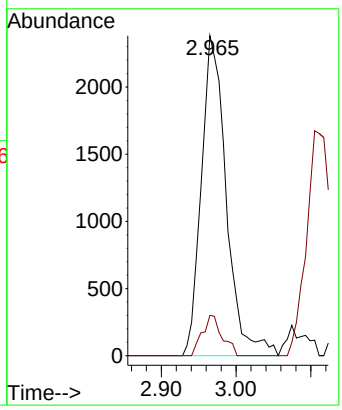





#11
Tert butyl alcohol
Concen: 16.111 ug/l
RT: 2.965 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 59 Resp: 553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.0 | 8.6 | 12.8 |




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

**Manual Integrations**
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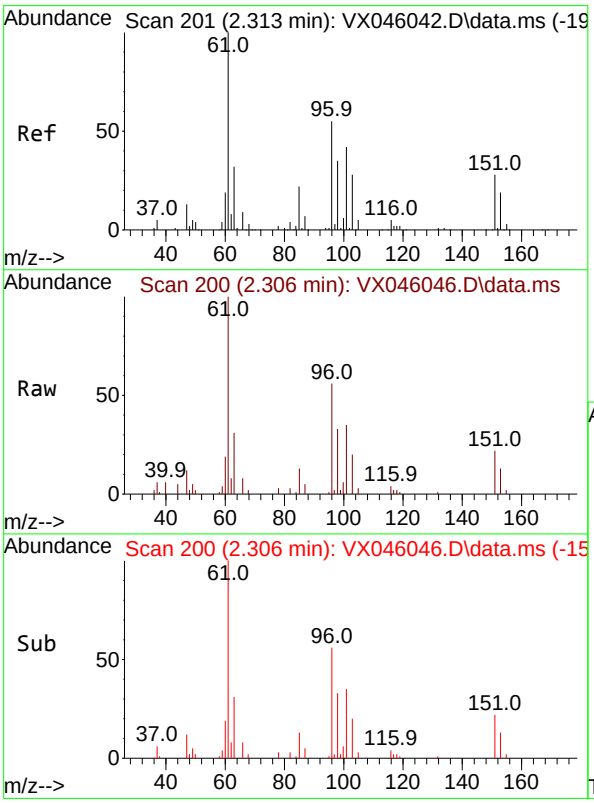
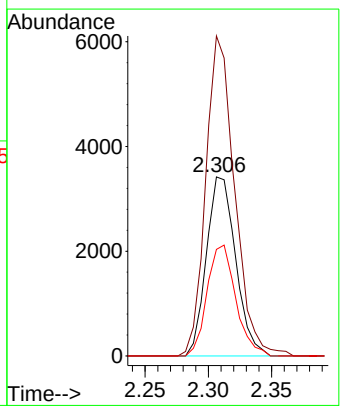
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

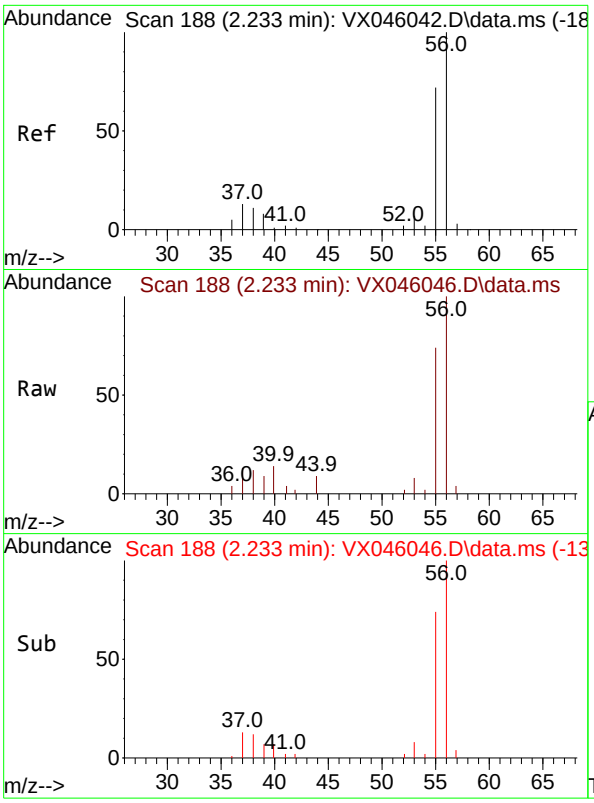



#12
1,1-Dichloroethene
Concen: 3.359 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 96 Resp: 5496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 178.7 | 146.2 | 219.2 |
| 98 | 59.5 | 51.0 | 76.6 |

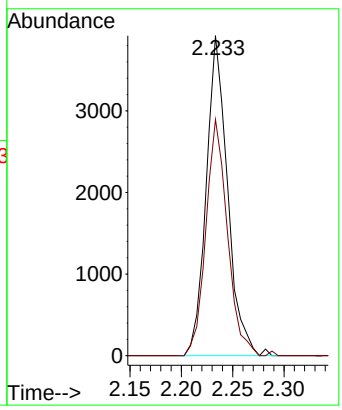





#13
Acrolein
Concen: 14.206 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 56 Resp: 567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 74.5 | 56.2 | 84.4 |




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

**Manual Integrations**
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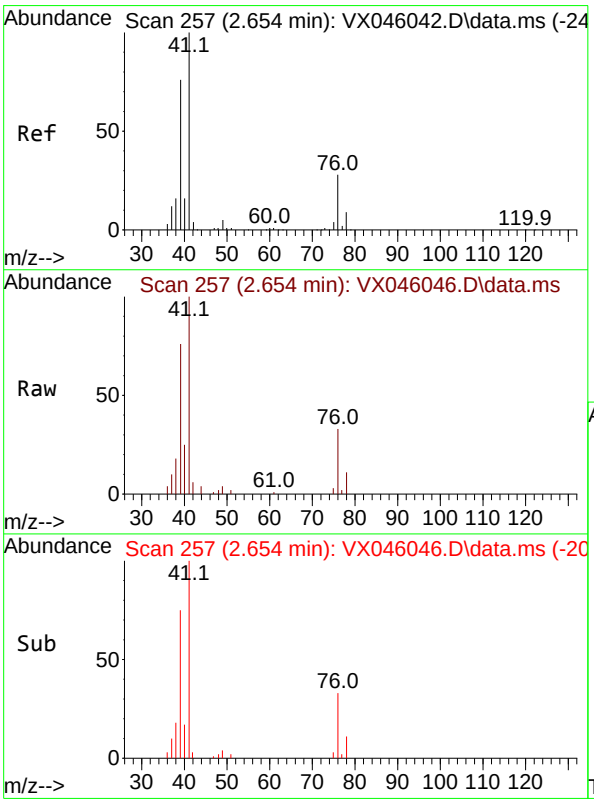
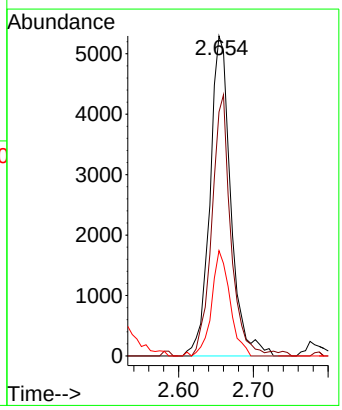
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

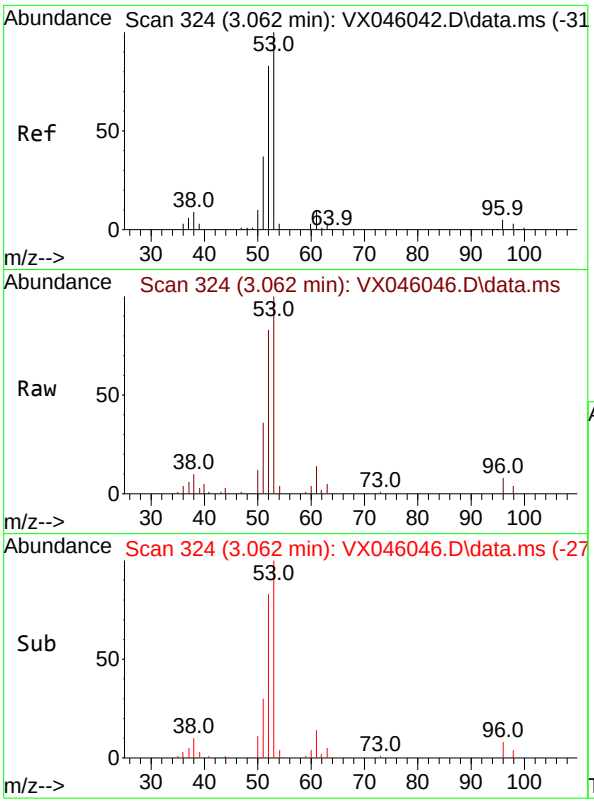



#14
Allyl chloride
Concen: 3.319 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 41 Resp: 10262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 74.1 | 60.6 | 90.8 |
| 76 | 29.1 | 24.9 | 37.3 |

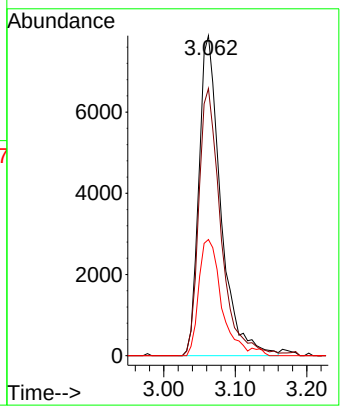





#15
Acrylonitrile
Concen: 16.282 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 53 Resp: 1674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 84.3 | 65.3 | 97.9 |
| 51 | 38.5 | 29.8 | 44.8 |




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

**Manual Integrations**
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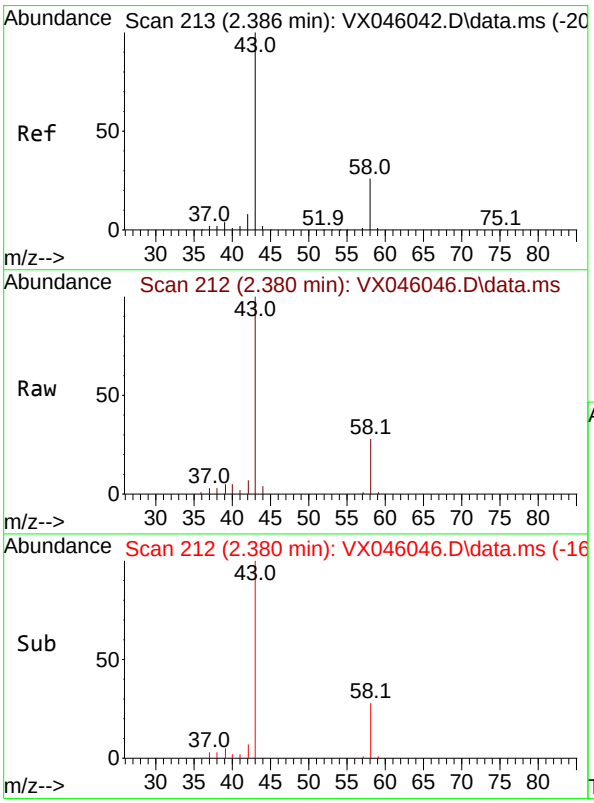
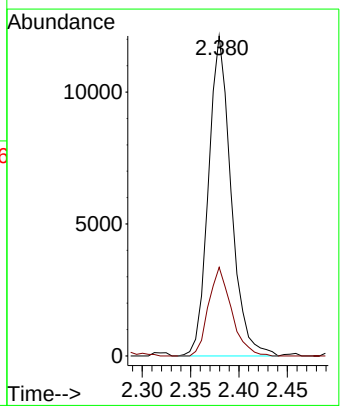
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

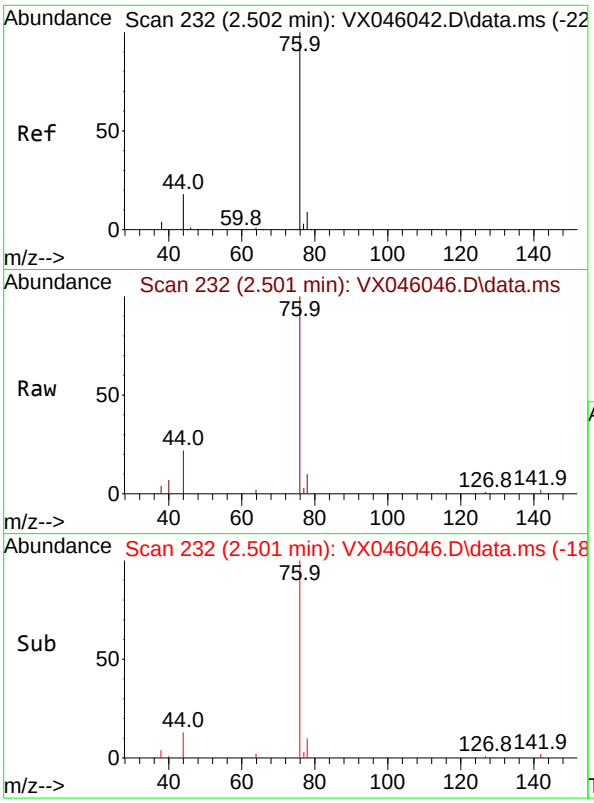



#16
Acetone
Concen: 20.036 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 19773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.7 | 21.2 | 31.8 |

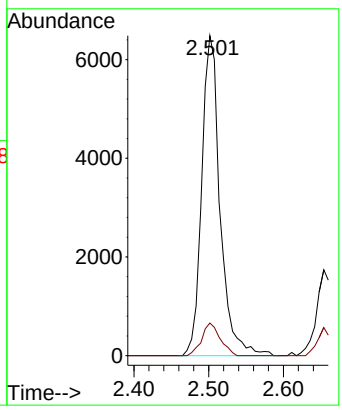





#17
Carbon Disulfide
Concen: 2.919 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 76 Resp: 1106

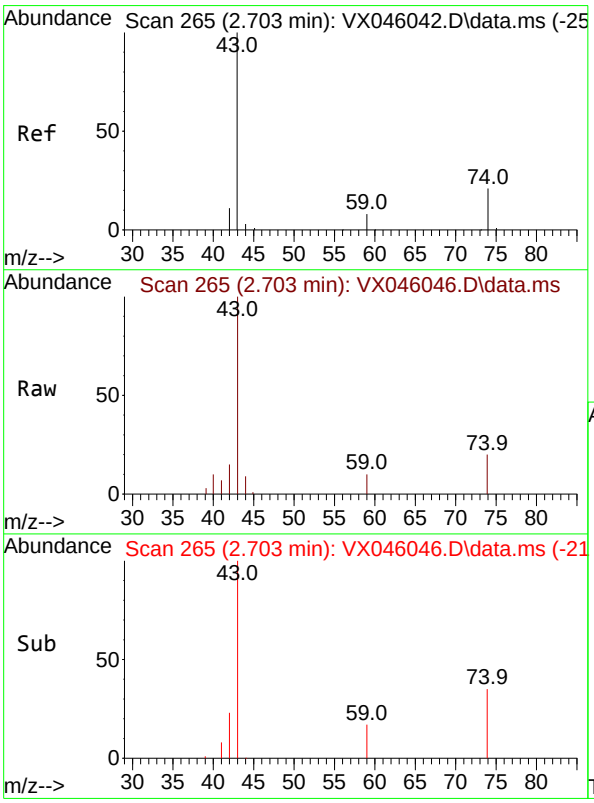
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.2 | 7.0 | 10.4 |




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

**Manual Integrations APPROVED**

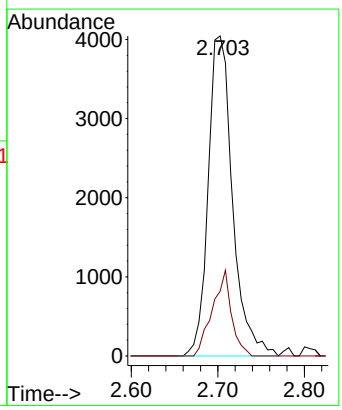
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

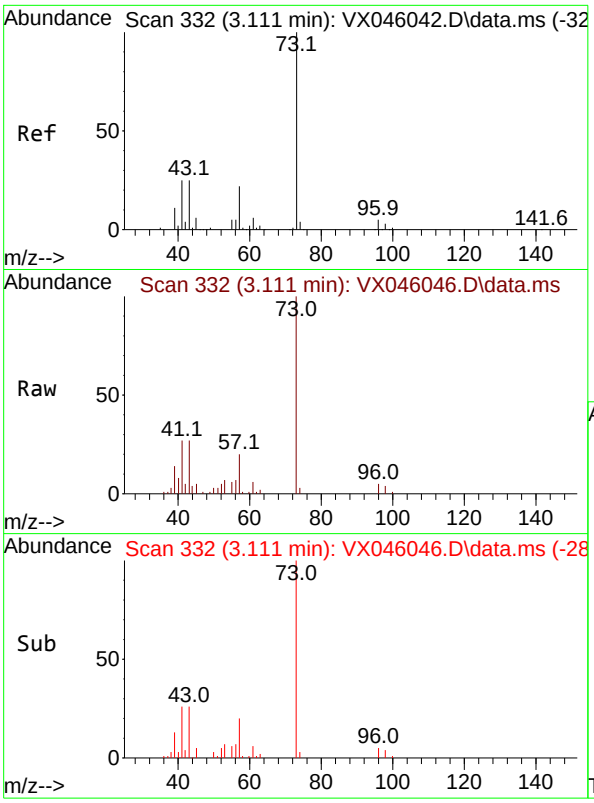



#18
Methyl Acetate
Concen: 3.357 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 7909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 20.9 | 16.7 | 25.1 |

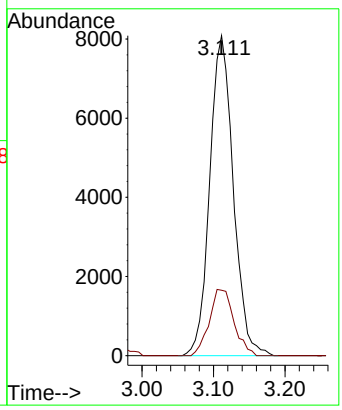





#19
Methyl tert-butyl Ether
Concen: 3.241 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 73 Resp: 1849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.5 | 17.7 | 26.5 |




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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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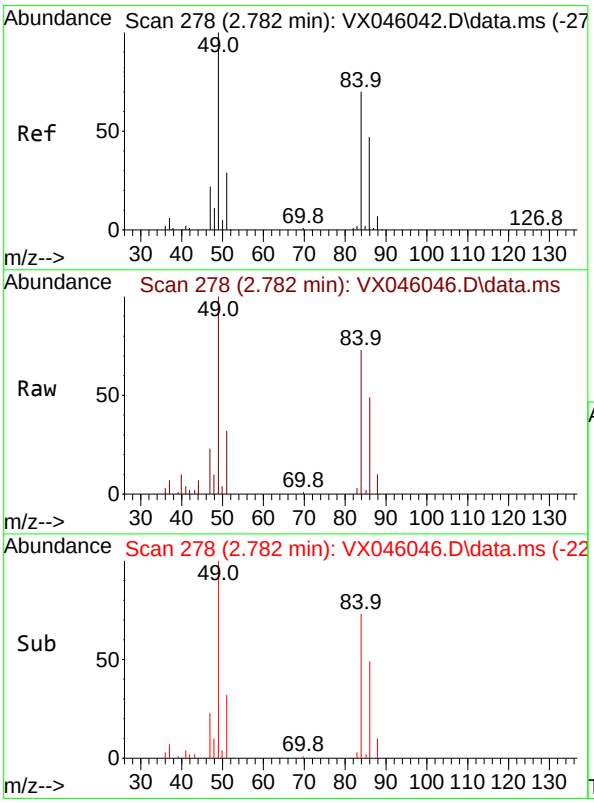
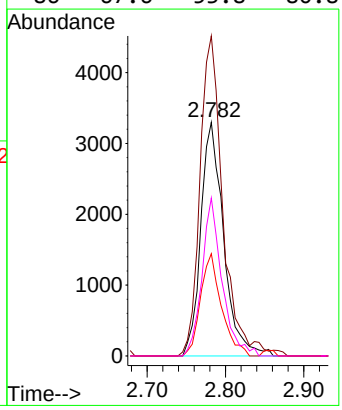
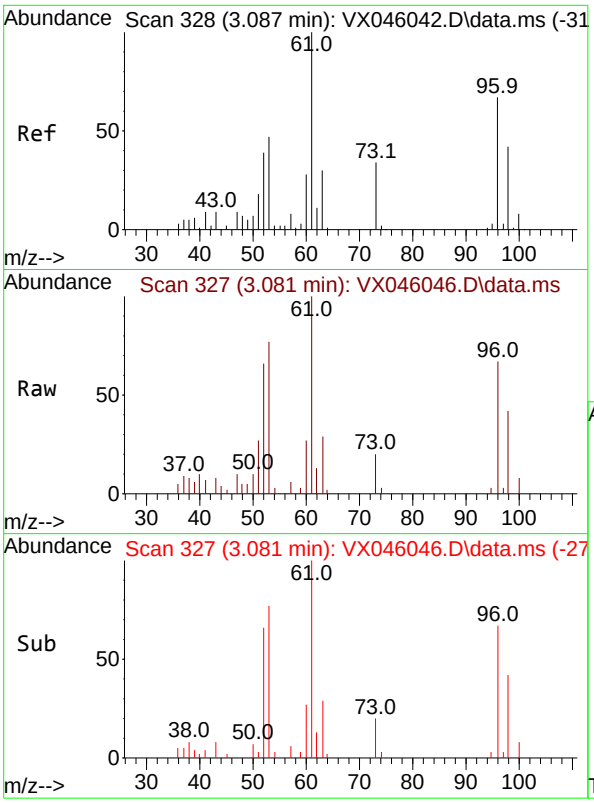



#20
Methylene Chloride
Concen: 3.341 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 84 Resp: 6680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 137.0 | 113.9 | 170.9 |
| 51 | 43.8 | 33.5 | 50.3 |
| 86 | 67.6 | 53.8 | 80.8 |

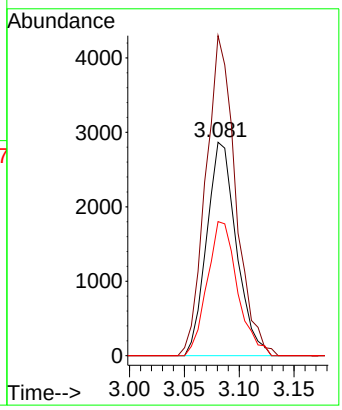





#21
trans-1,2-Dichloroethene
Concen: 3.234 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 96 Resp: 540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 149.9 | 119.5 | 179.3 |
| 98 | 62.9 | 50.0 | 75.0 |




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

**Manual Integrations**
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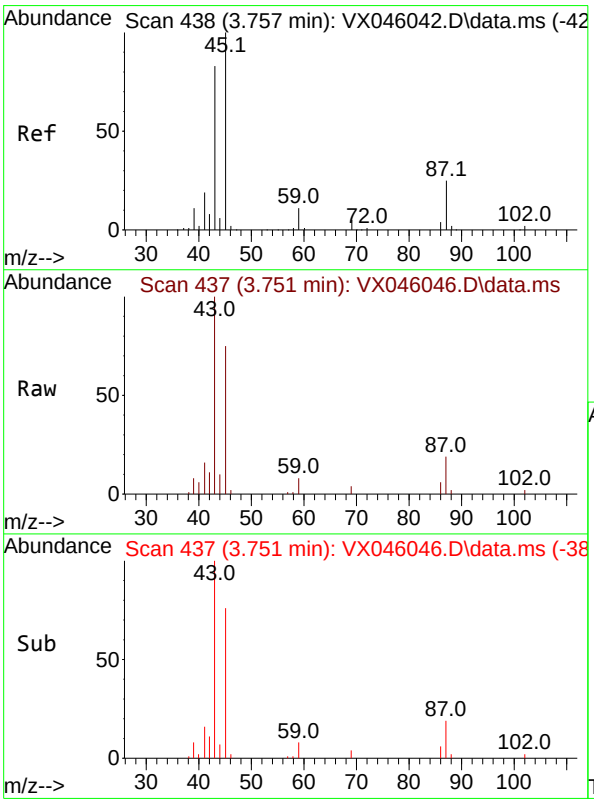
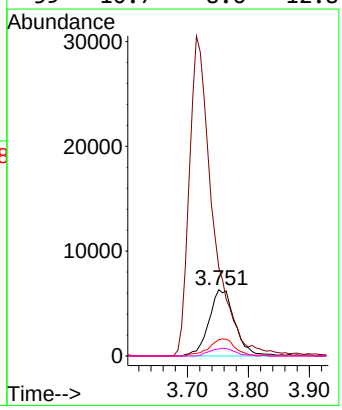
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

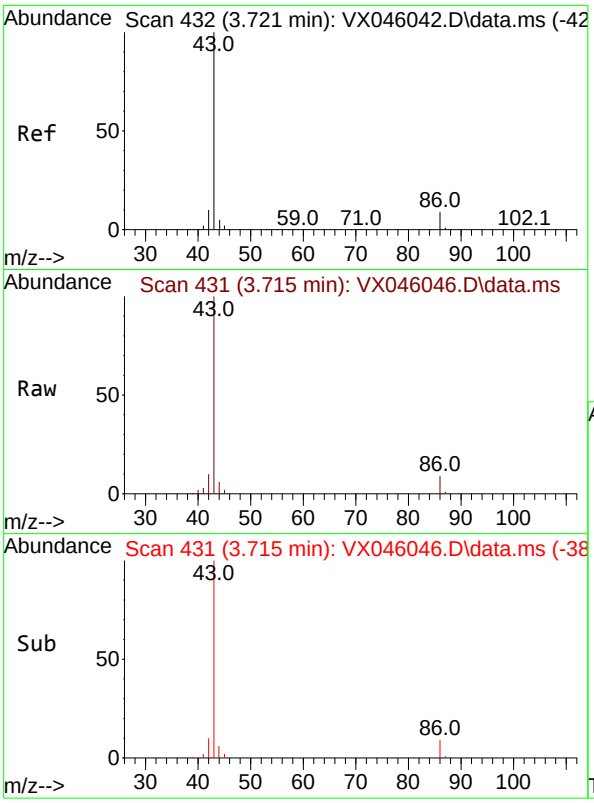



#22
Diisopropyl ether
Concen: 3.230 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 45 Resp: 18657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 128.0 | 66.6 | 100.0# |
| 87 | 24.7 | 19.8 | 29.6 |
| 59 | 10.7 | 8.6 | 12.8 |






#23
Vinyl Acetate
Concen: 16.127 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

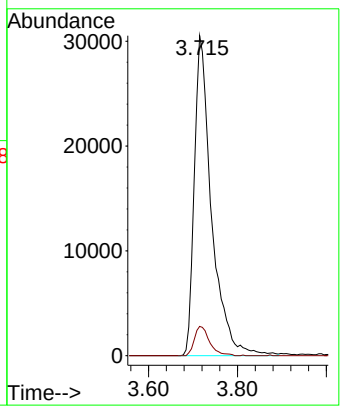
Tgt Ion: 43 Resp: 8232

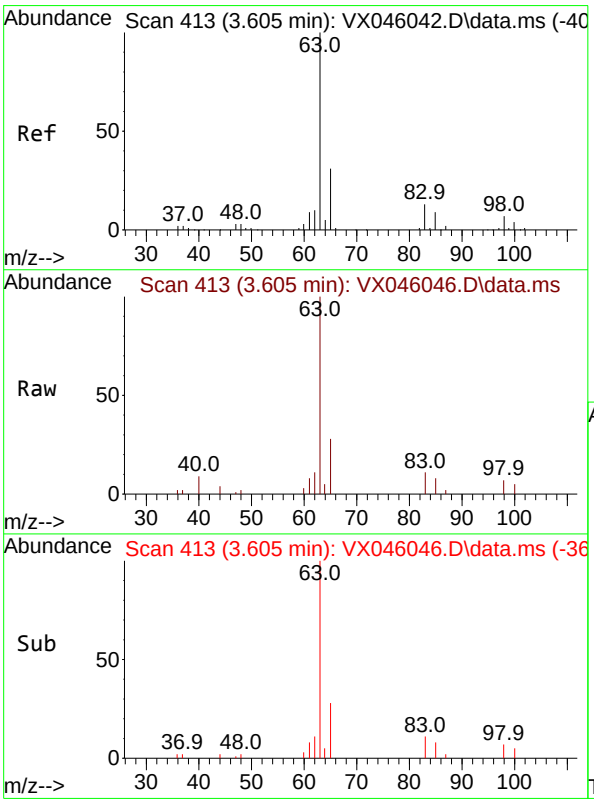
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.1 | 7.5 | 11.3 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

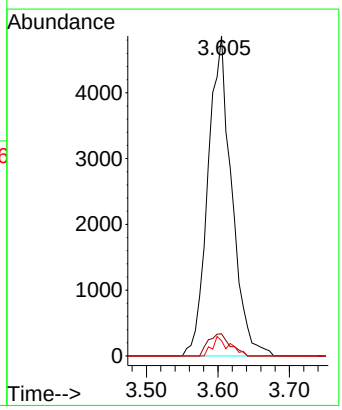


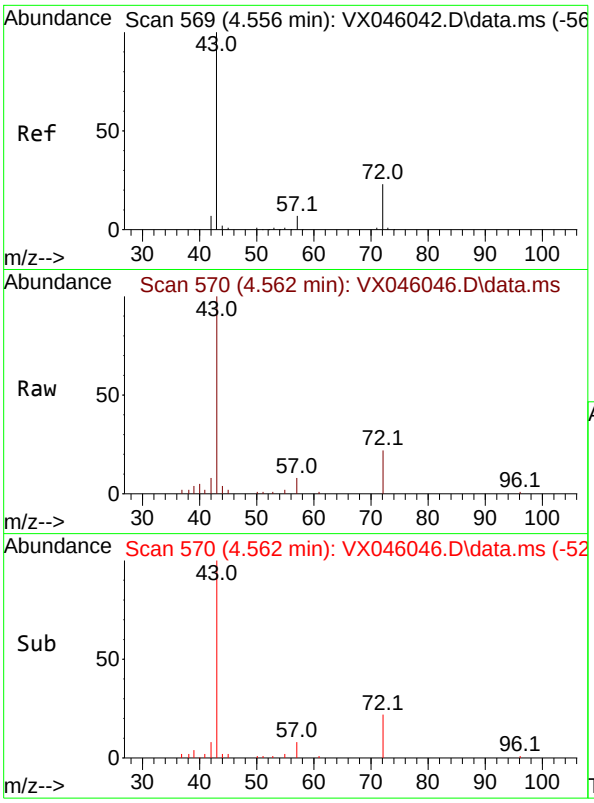




#24
1,1-Dichloroethane
Concen: 3.297 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 63 Resp: 11193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.9 | 3.6 | 10.8 |
| 100 | 4.7 | 2.1 | 6.3 |






#25
2-Butanone
Concen: 18.340 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

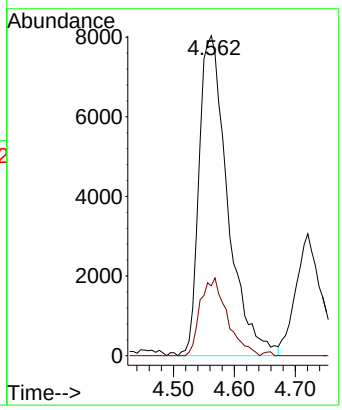
Tgt Ion: 43 Resp: 2612

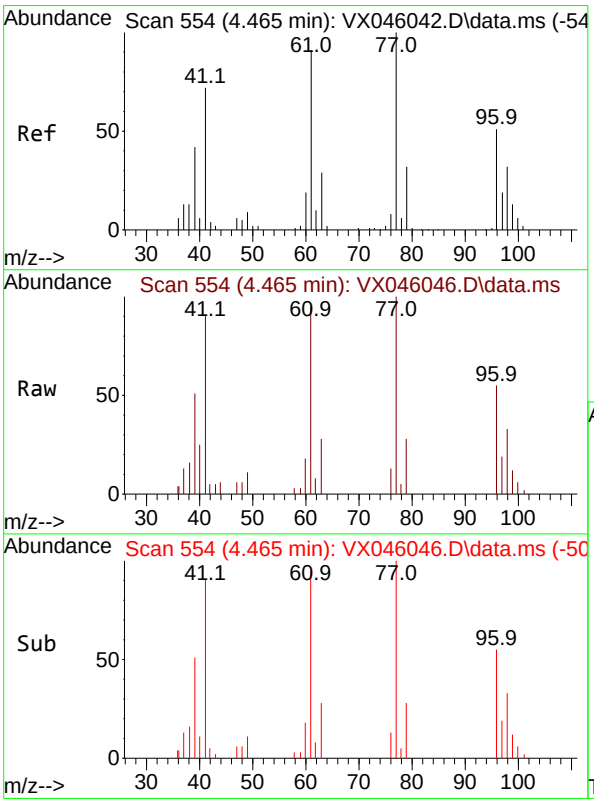
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.8 | 18.4 | 27.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

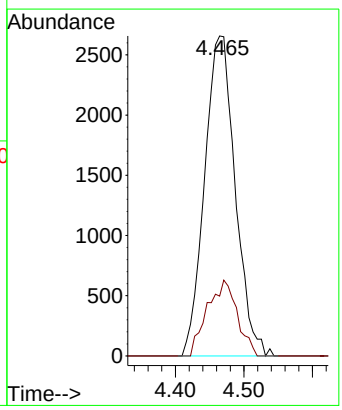


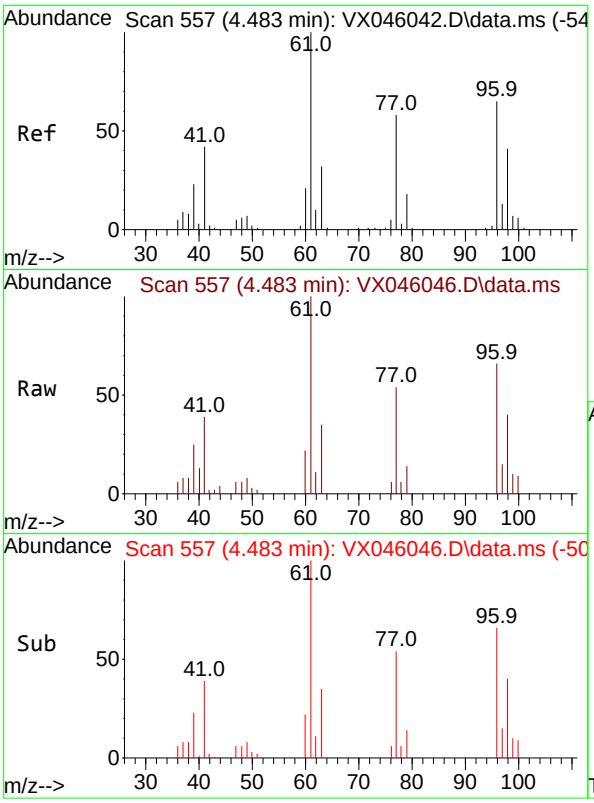




#26
2,2-Dichloropropane
Concen: 3.205 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 77 Resp: 8245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.1 | 10.5 | 31.5 |

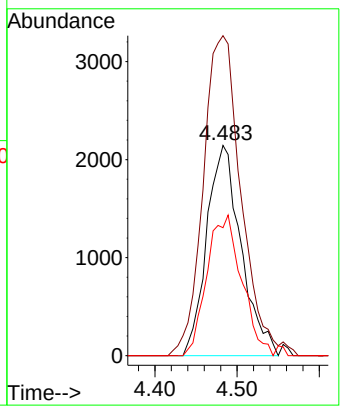





#27
cis-1,2-Dichloroethene
Concen: 3.089 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 96 Resp: 622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 168.5 | 0.0 | 322.8 |
| 98 | 67.6 | 0.0 | 129.0 |




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

**Manual Integrations**
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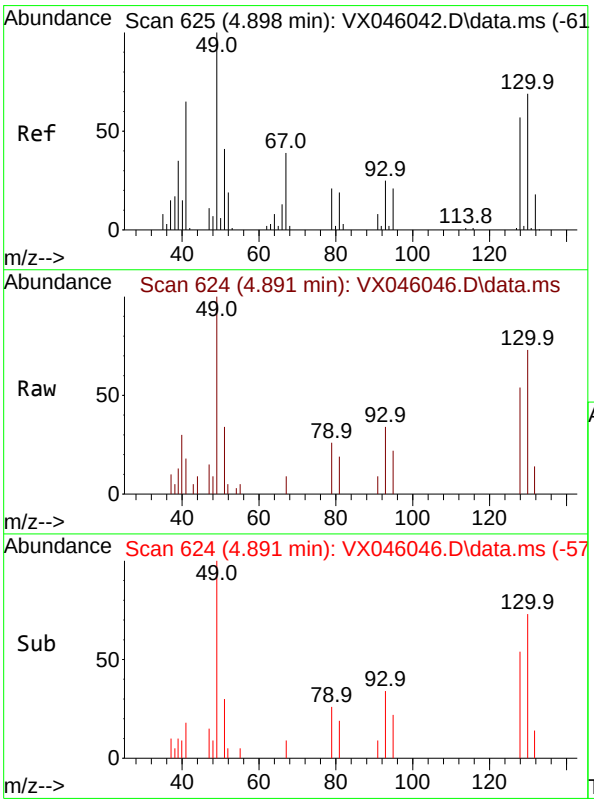
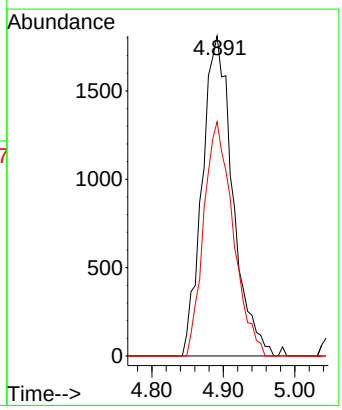
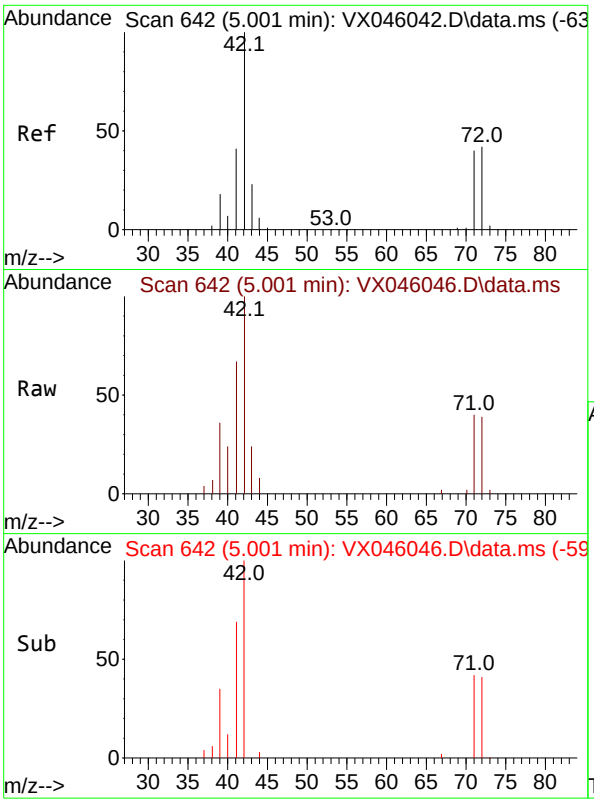



#28
Bromochloromethane
Concen: 2.969 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 49 Resp: 5360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.0 | 0.0 | 4.0 |
| 130 | 70.5 | 56.2 | 84.2 |






#29
Tetrahydrofuran
Concen: 16.680 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 42 Resp: 1543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.2 | 33.7 | 50.5 |
| 71 | 37.4 | 31.4 | 47.2 |

**Instrument :**
MSVOA_X
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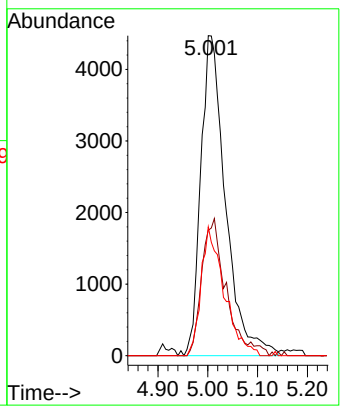
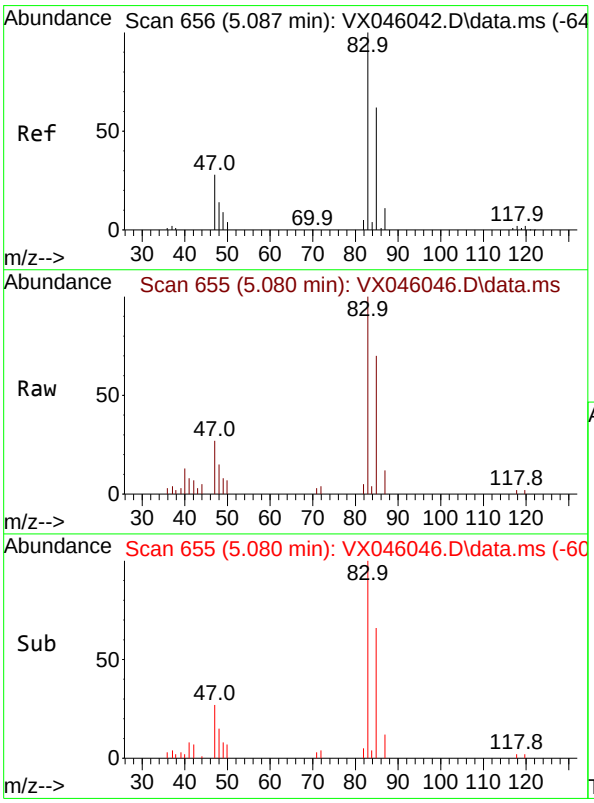
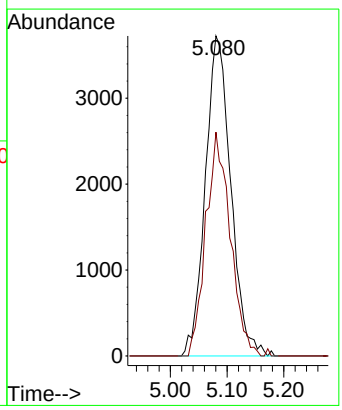


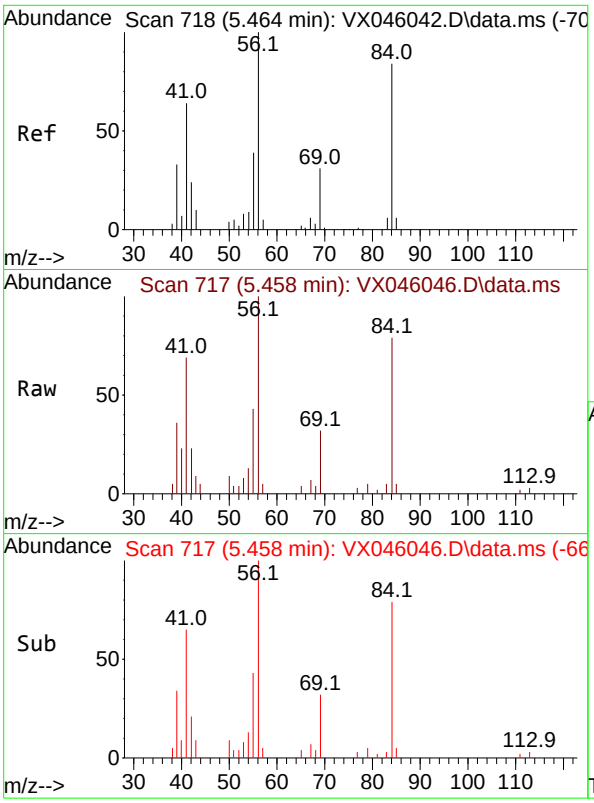




#30
Chloroform
Concen: 3.294 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 83 Resp: 11624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 69.9 | 49.3 | 73.9 |

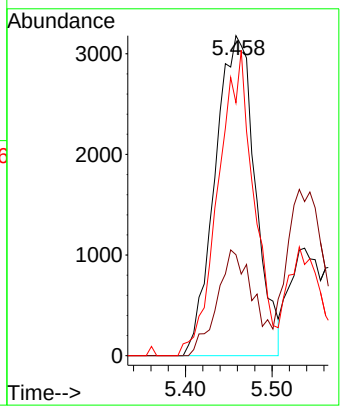





#31
Cyclohexane
Concen: 3.588 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 56 Resp: 1026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.6 | 24.4 | 36.6 |
| 84 | 79.1 | 66.9 | 100.3 |

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MSVOA_X
**ClientSampleId :**
VSTDICC005

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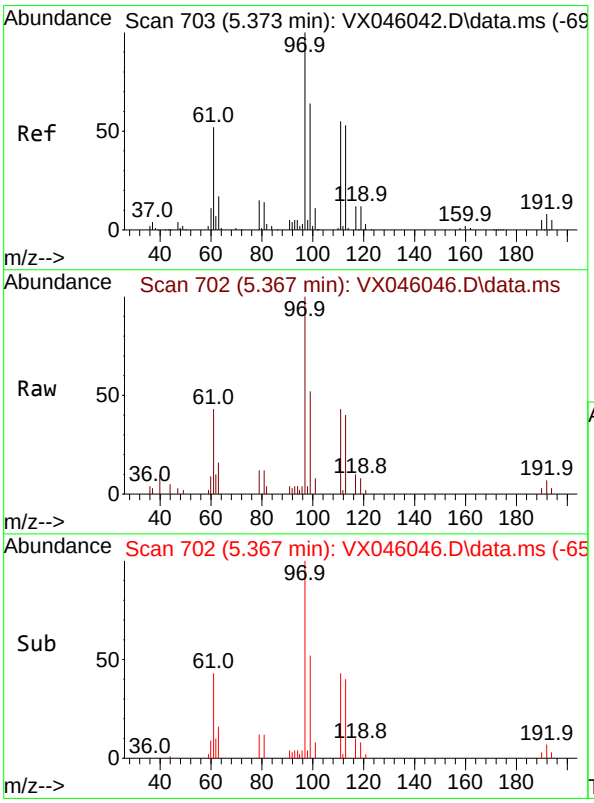
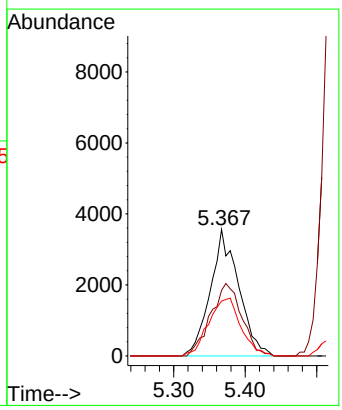
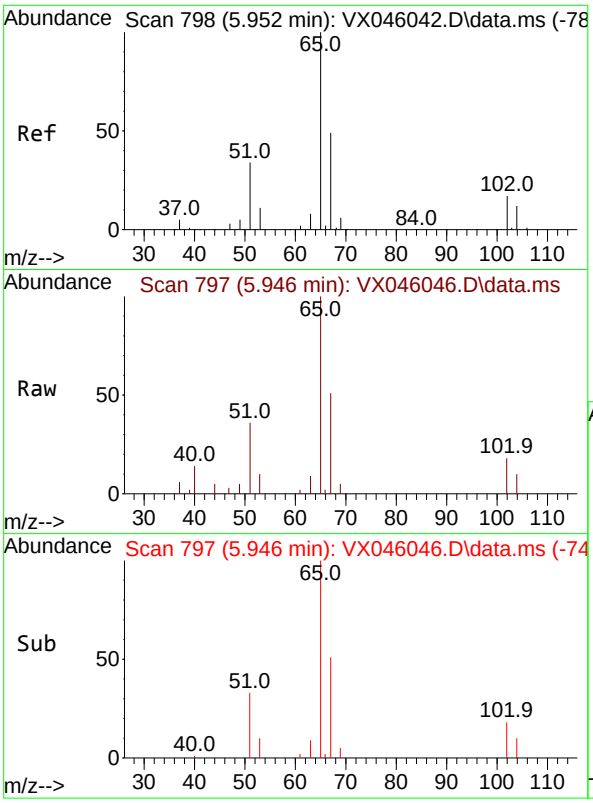



#32
1,1,1-Trichloroethane
Concen: 3.229 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 97 Resp: 9827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.6 | 51.8 | 77.6 |
| 61 | 51.8 | 40.1 | 60.1 |

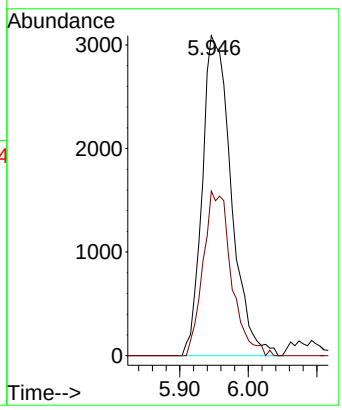





#33
1,2-Dichloroethane-d4
Concen: 3.143 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 65 Resp: 906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.1 | 0.0 | 99.0 |

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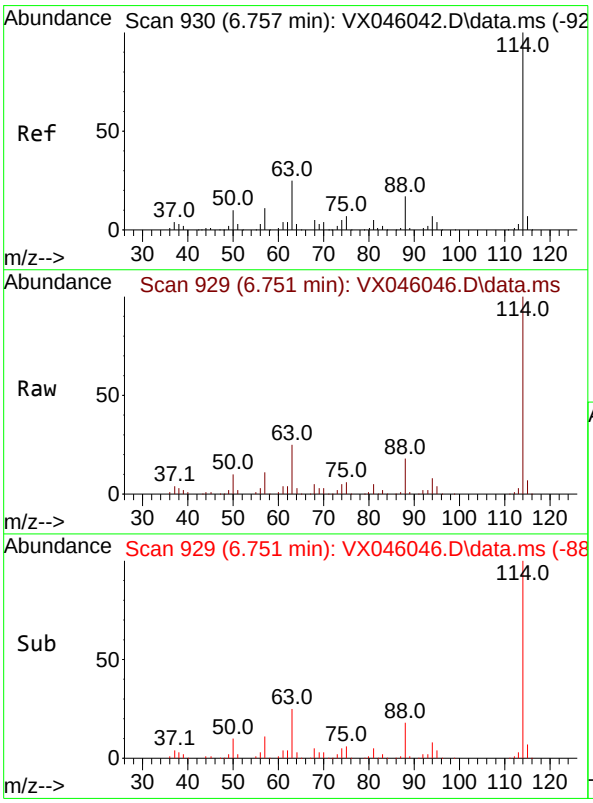
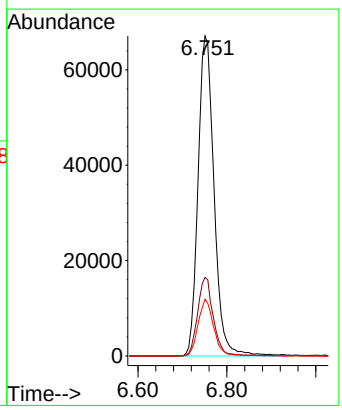
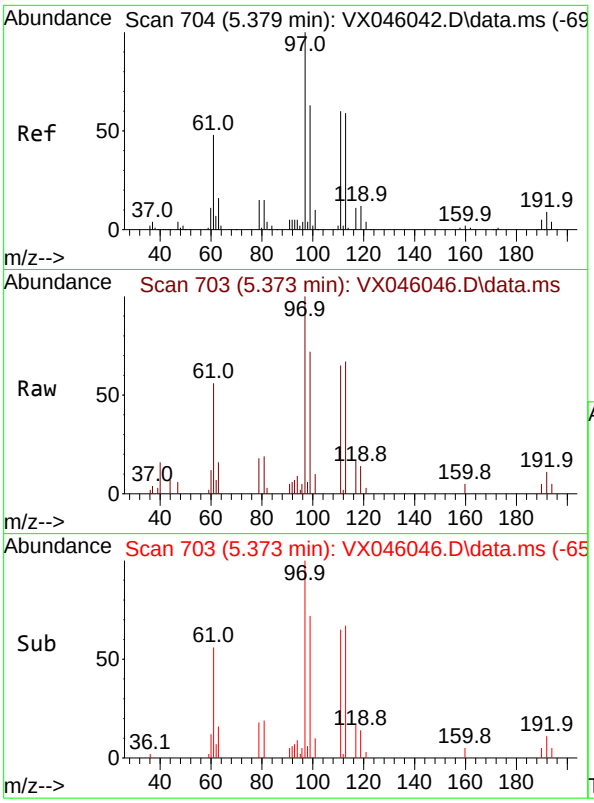



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:114 Resp: 168484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 24.5 | 0.0 | 49.2 |
| 88 | 17.7 | 0.0 | 33.6 |

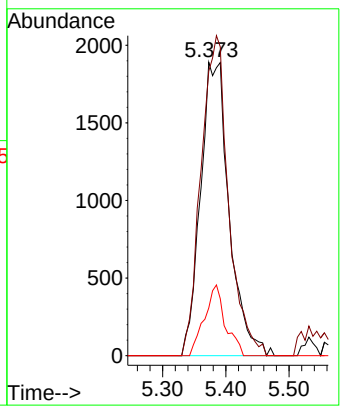





#35
Dibromofluoromethane
Concen: 3.161 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:113 Resp: 596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.4 | 83.1 | 124.7 |
| 192 | 17.5 | 13.3 | 19.9 |

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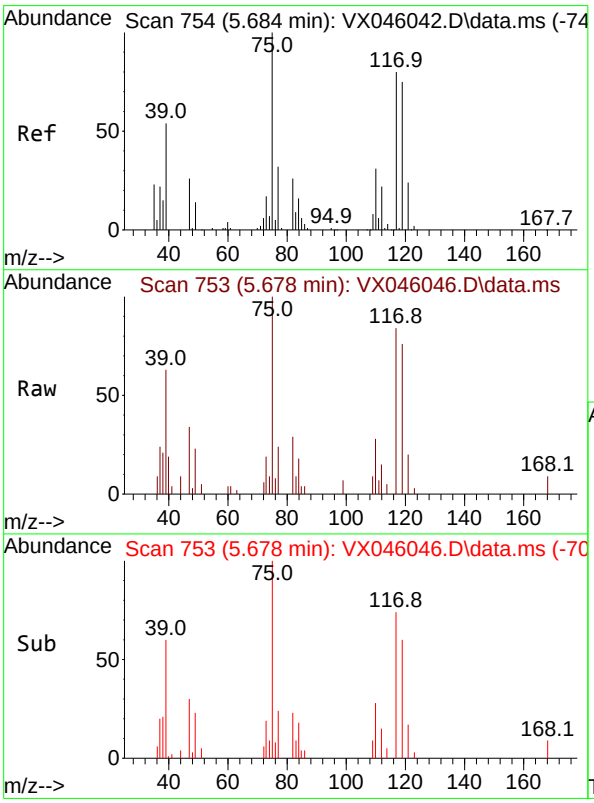
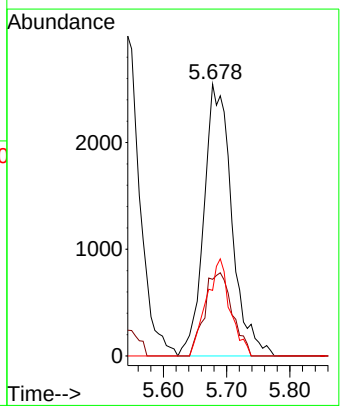
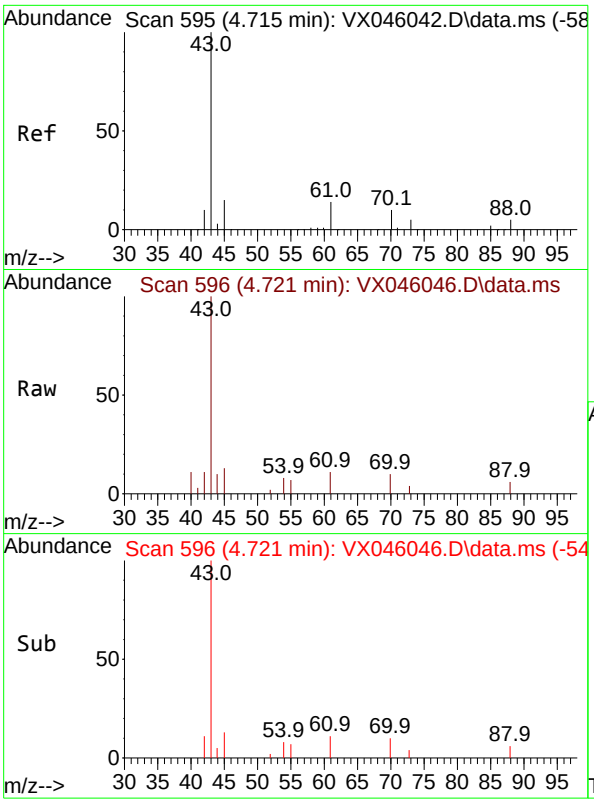



#36
1,1-Dichloropropene
Concen: 3.551 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 7787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 30.6 | 16.3 | 48.9 |
| 77 | 30.5 | 24.3 | 36.5 |

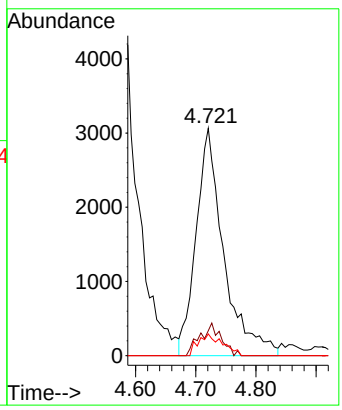





#37
Ethyl Acetate
Concen: 3.565 ug/l m
RT: 4.721 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 11.0 | 10.3 | 15.5 |
| 70 | 8.4 | 7.9 | 11.9 |

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MSVOA_X
**ClientSampleId :**
VSTDICC005

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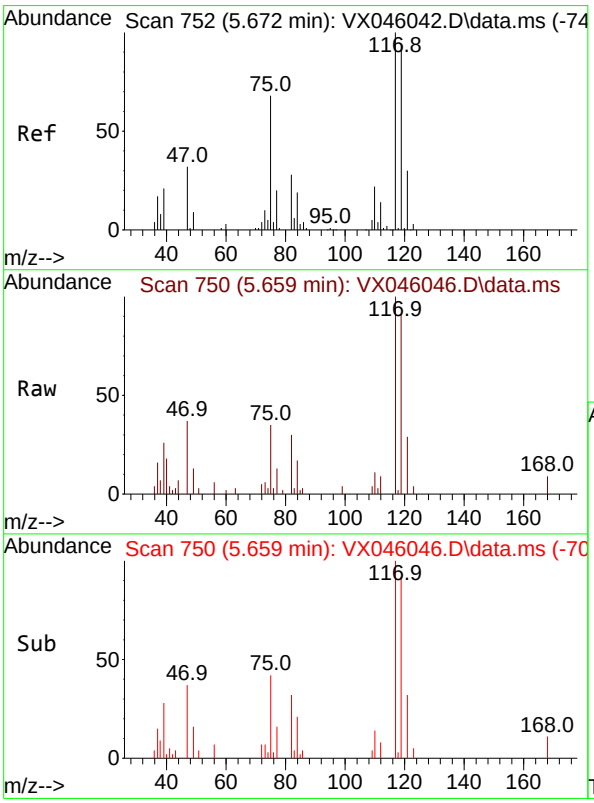
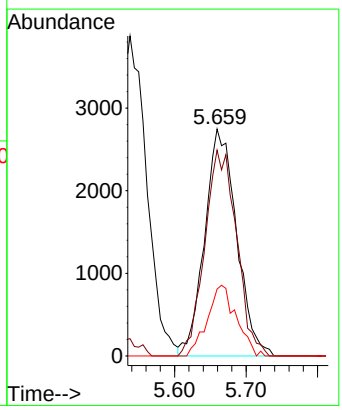
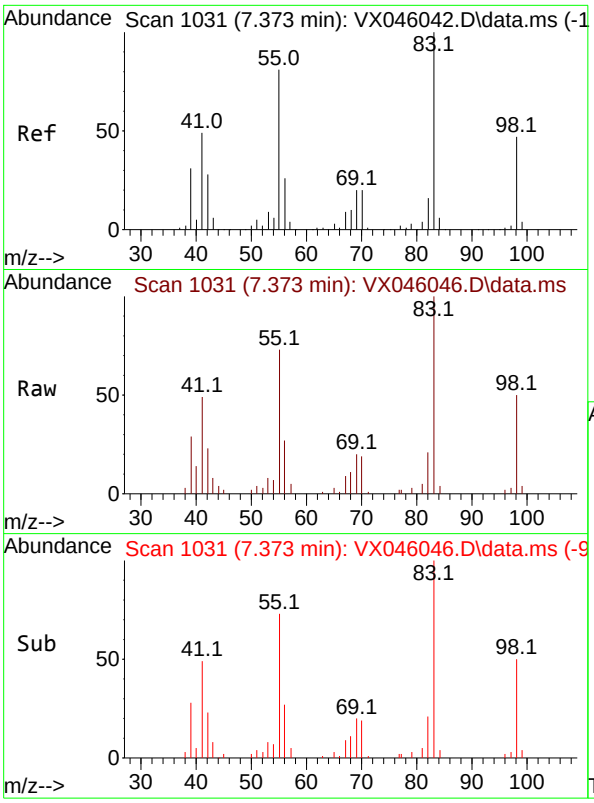



#38
Carbon Tetrachloride
Concen: 3.376 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:117 Resp: 8505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 90.6 | 75.2 | 112.8 |
| 121 | 29.5 | 24.2 | 36.4 |

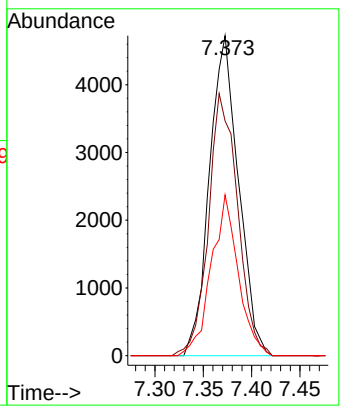





#39
Methylcyclohexane
Concen: 3.597 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 83 Resp: 988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 73.3 | 64.7 | 97.1 |
| 98 | 50.3 | 37.4 | 56.2 |

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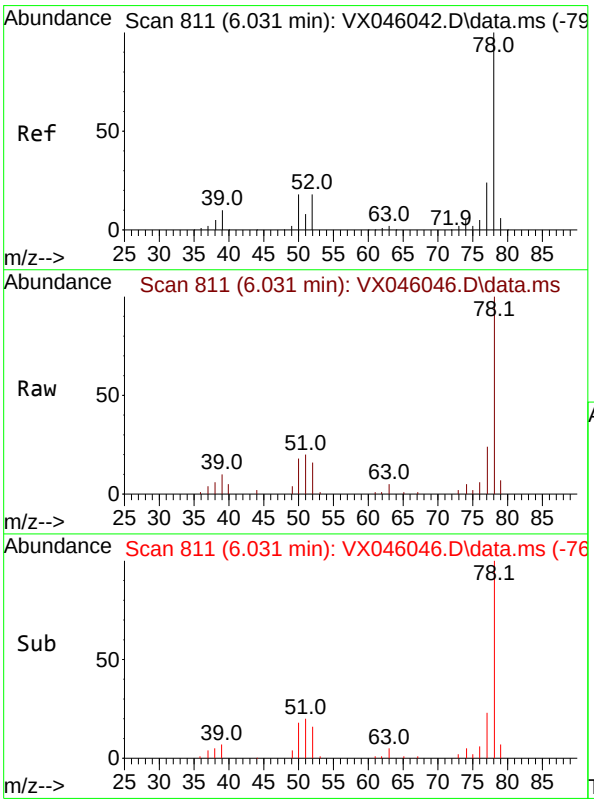
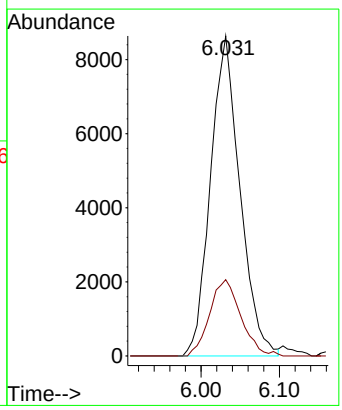
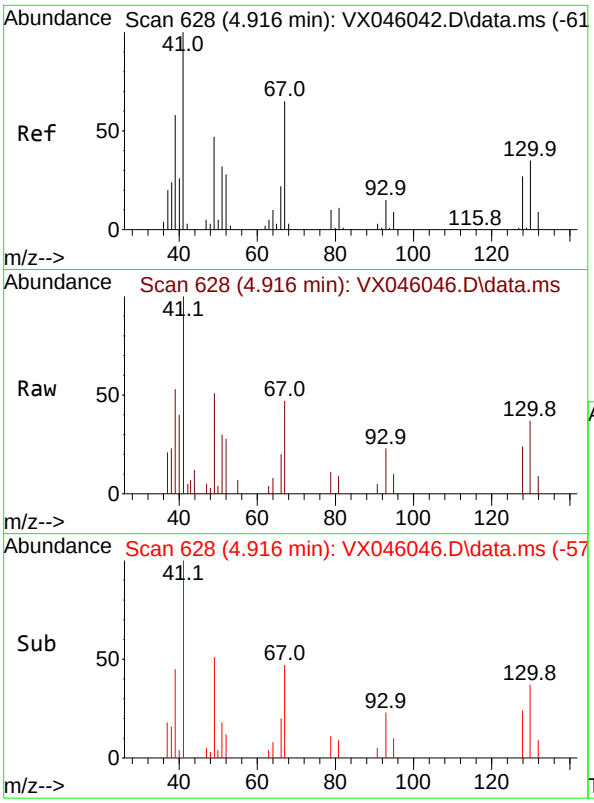



#40
Benzene
Concen: 3.315 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 78 Resp: 22528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 19.0 | 28.4 |

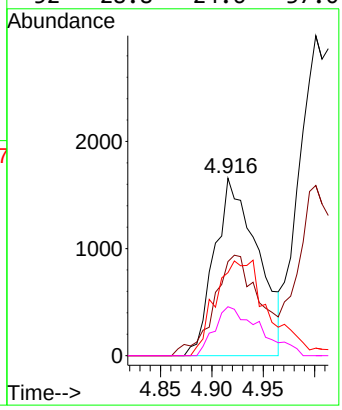





#41
Methacrylonitrile
Concen: 3.174 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 41 Resp: 485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 59.7 | 47.2 | 70.8 |
| 67 | 0.0 | 50.7 | 76.1# |
| 52 | 28.8 | 24.6 | 37.0 |




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

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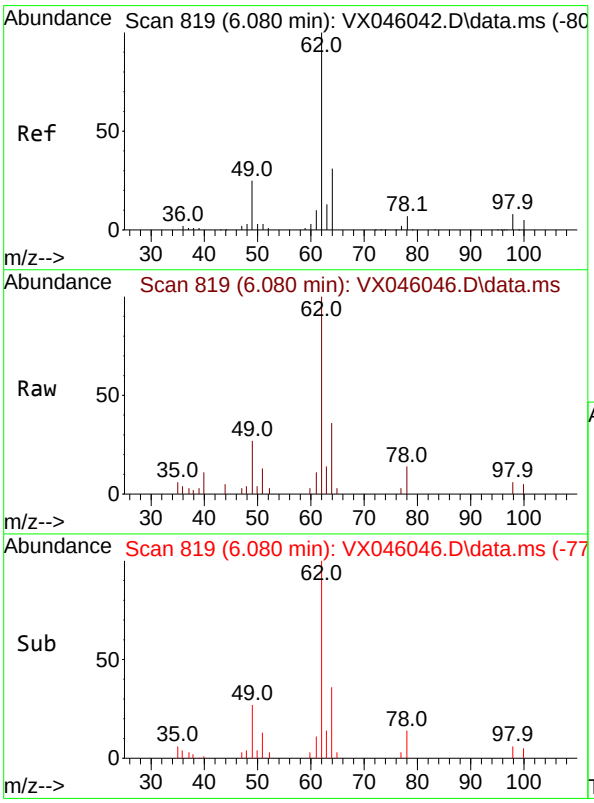
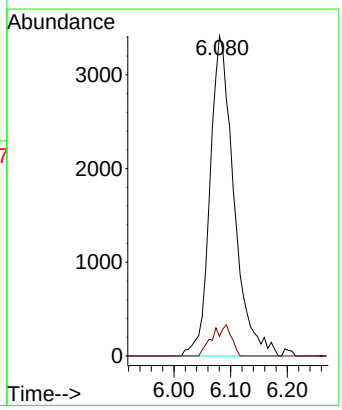
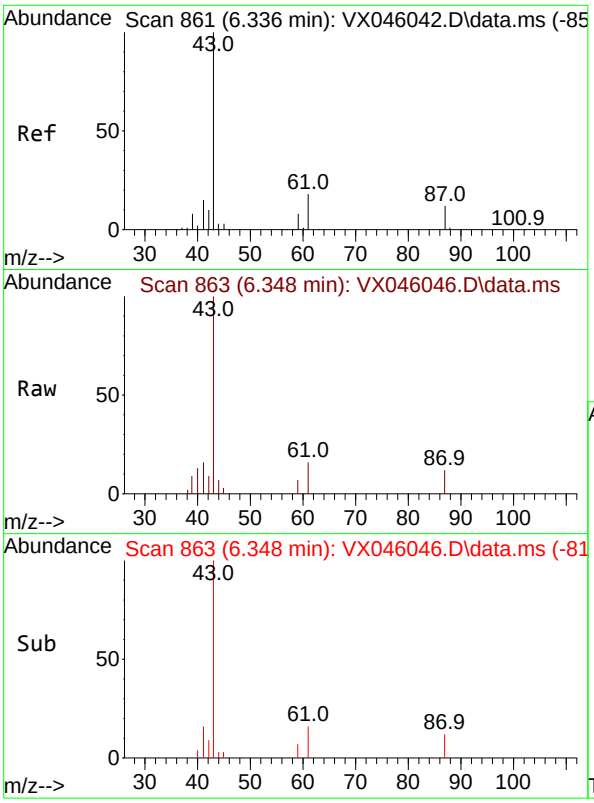



#42
1,2-Dichloroethane
Concen: 3.563 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 62 Resp: 10011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.8 | 0.0 | 15.2 |

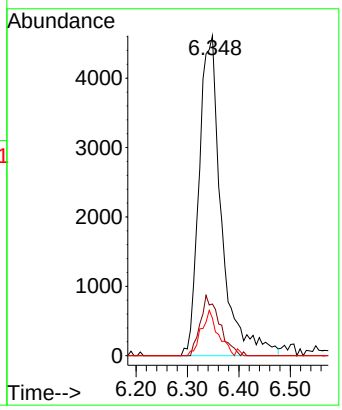





#43
Isopropyl Acetate
Concen: 3.309 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 1391

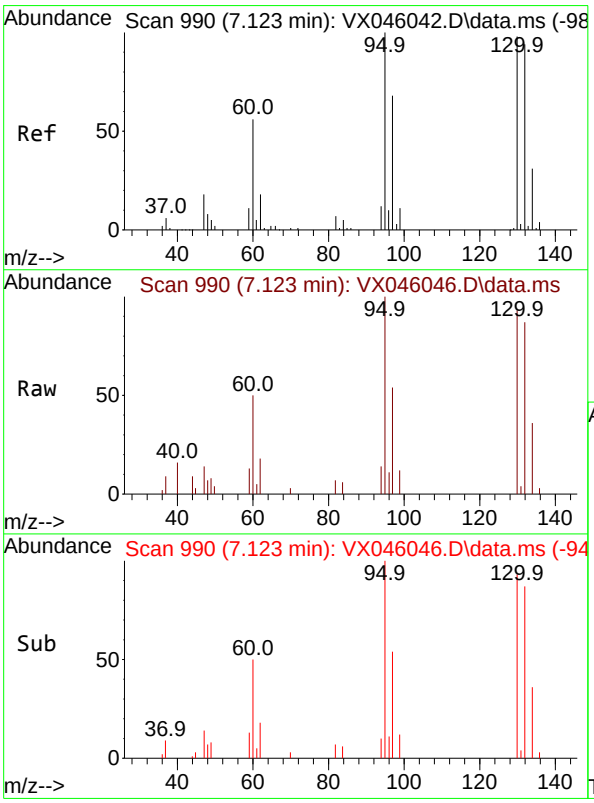
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 16.2 | 14.3 | 21.5 |
| 87 | 10.6 | 9.5 | 14.3 |




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

**Manual Integrations APPROVED**

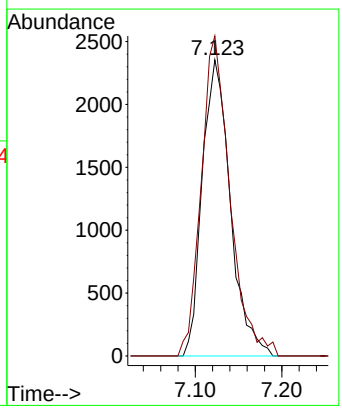
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

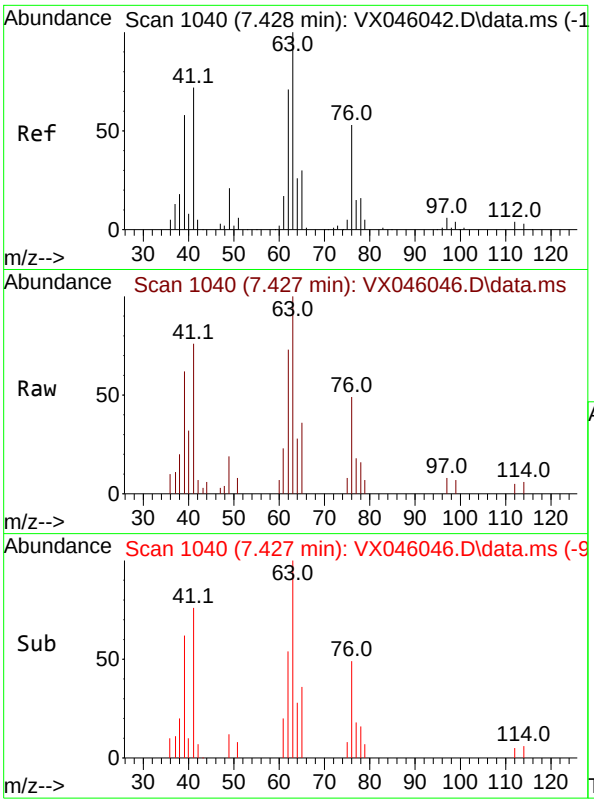



#44
Trichloroethene
Concen: 3.307 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:130 Resp: 5313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 108.1 | 0.0 | 204.2 |






#45
1,2-Dichloropropane
Concen: 3.228 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

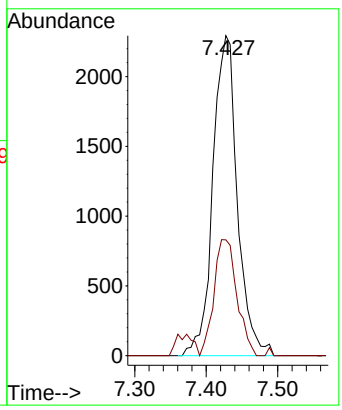
Tgt Ion: 63 Resp: 545

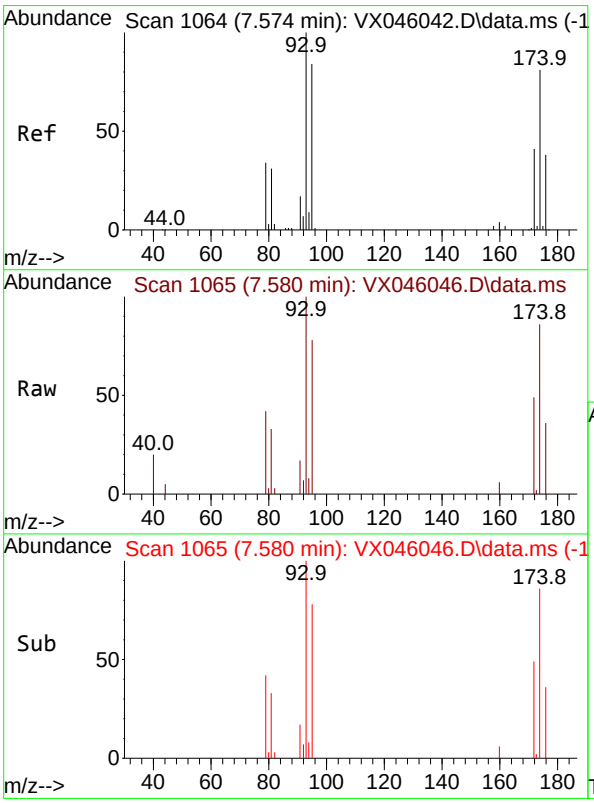
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 36.2 | 24.1 | 36.1 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

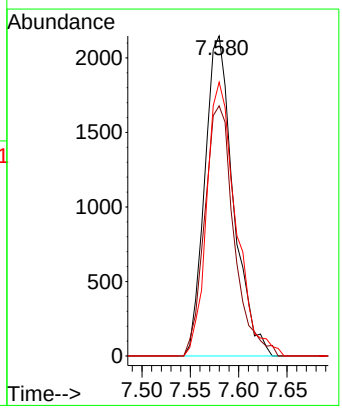


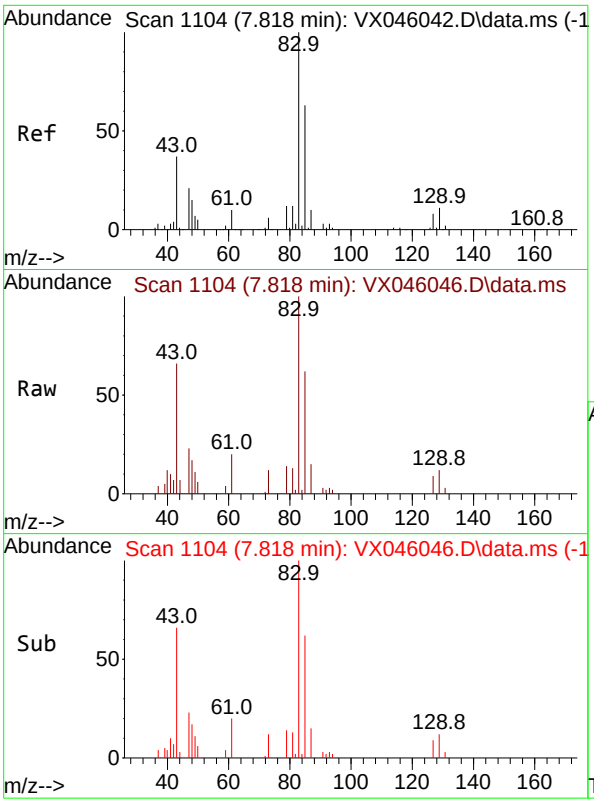




#46
Dibromomethane
Concen: 3.318 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 93 Resp: 4417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.1 | 65.6 | 98.4 |
| 174 | 87.6 | 68.2 | 102.2 |

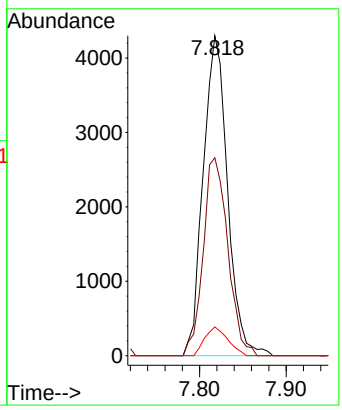





#47
Bromodichloromethane
Concen: 3.254 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 83 Resp: 839

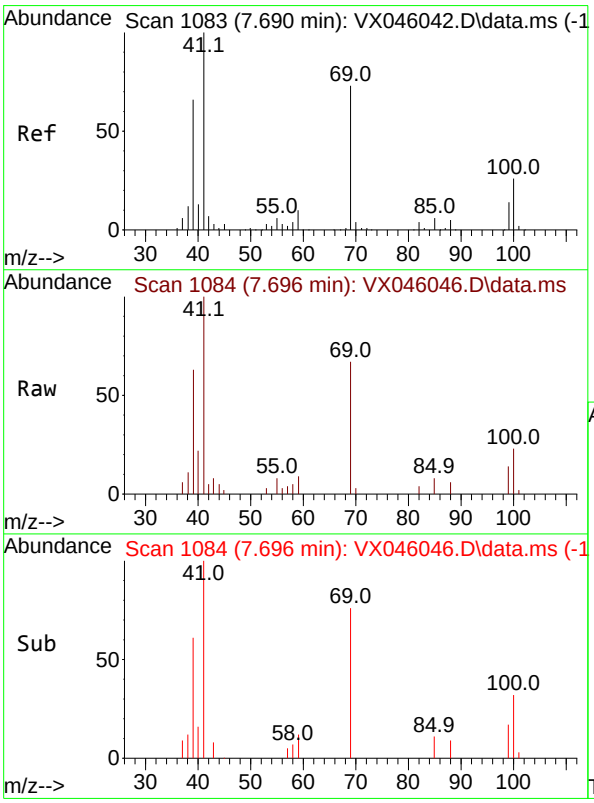
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.9 | 50.5 | 75.7 |
| 127 | 9.0 | 6.5 | 9.7 |




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

**Manual Integrations APPROVED**

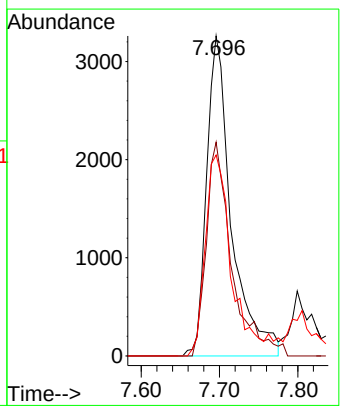
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

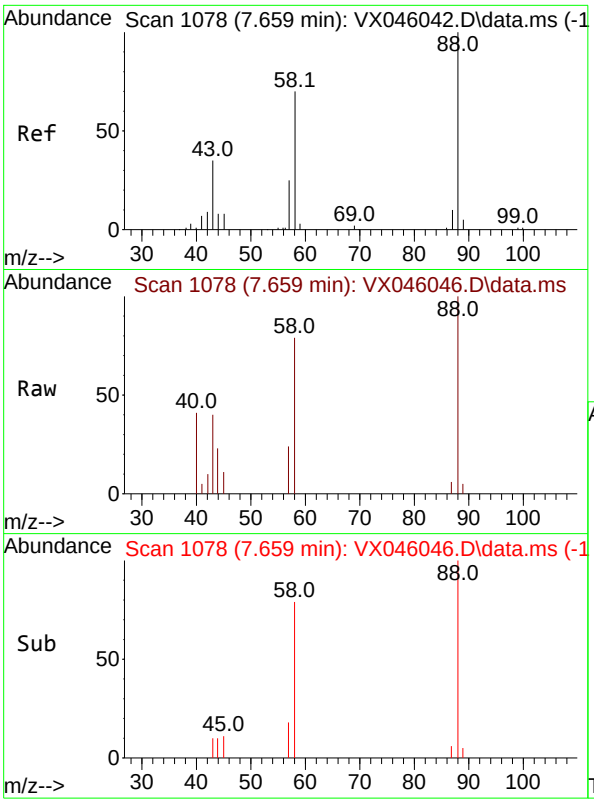



#48
Methyl methacrylate
Concen: 3.321 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 41 Resp: 7171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 68.4 | 58.5 | 87.7 |
| 39 | 65.1 | 51.7 | 77.5 |

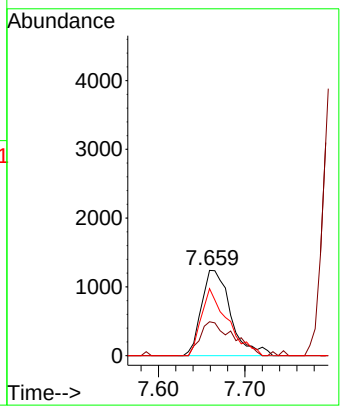





#49
1,4-Dioxane
Concen: 67.721 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 88 Resp: 290

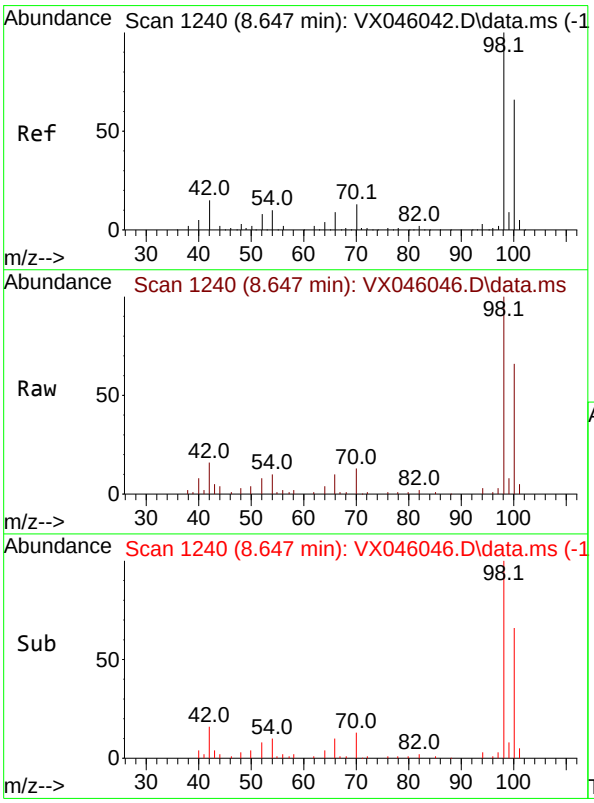
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 45.3 | 33.4 | 50.2 |
| 58 | 71.0 | 58.6 | 88.0 |




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

**Manual Integrations**
**APPROVED**

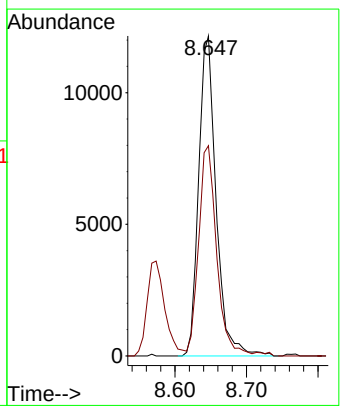
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

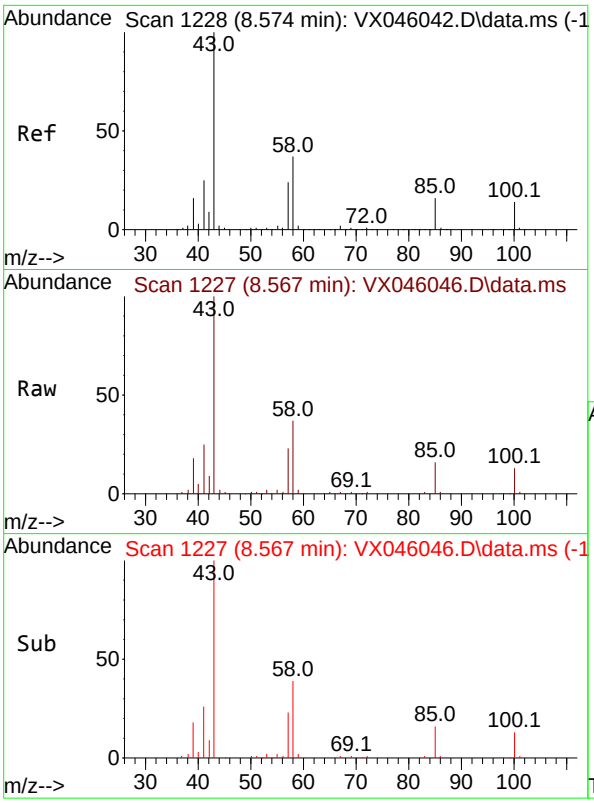



#50
Toluene-d8
Concen: 3.232 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 98 Resp: 20566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.1 | 53.5 | 80.3 |

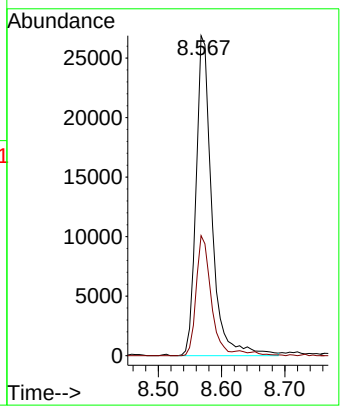





#51
4-Methyl-2-Pentanone
Concen: 16.967 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 4679

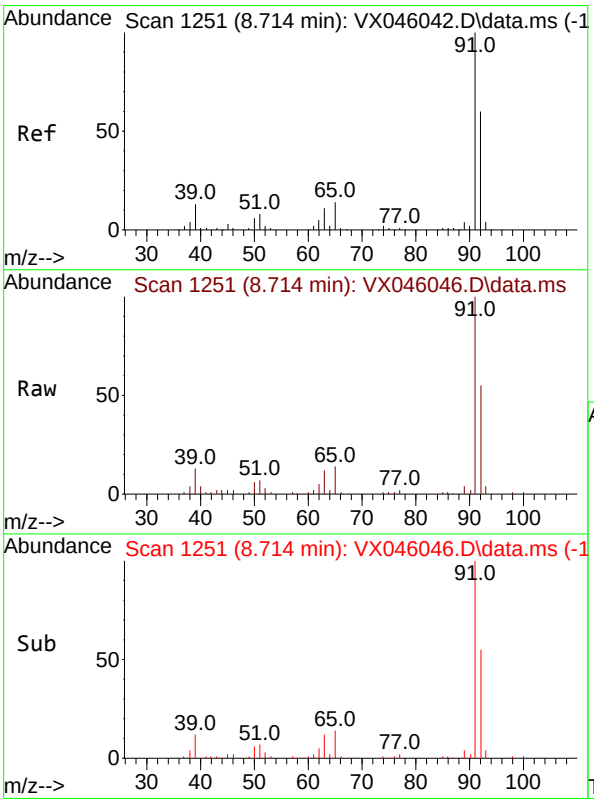
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.8 | 28.9 | 43.3 |




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

**Manual Integrations APPROVED**

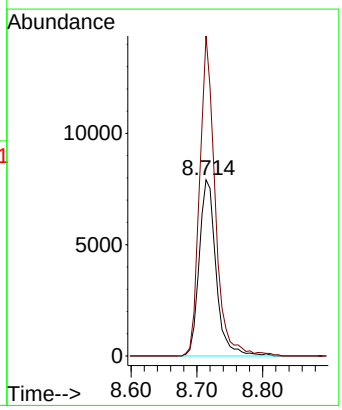
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

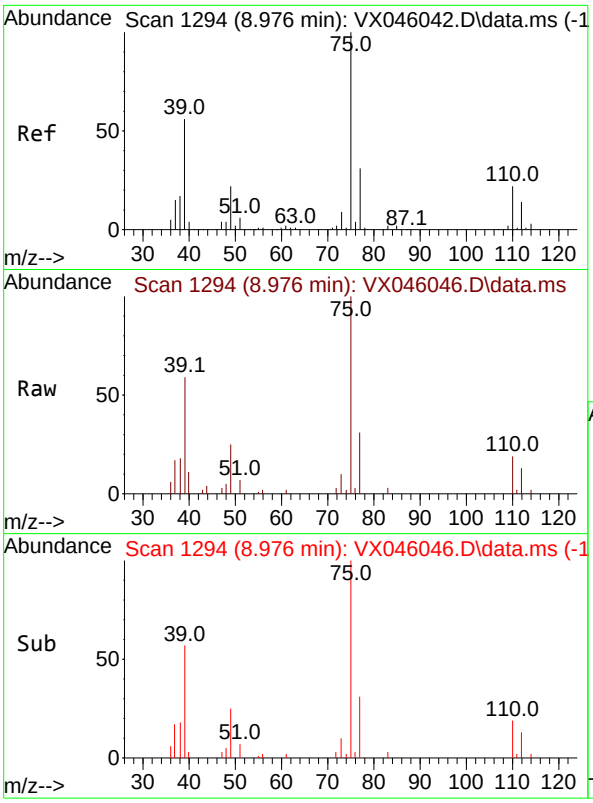



#52
Toluene
Concen: 3.505 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 92 Resp: 14126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 167.2 | 136.6 | 205.0 |

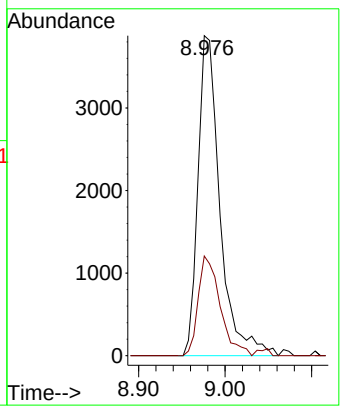





#53
t-1,3-Dichloropropene
Concen: 3.155 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 683

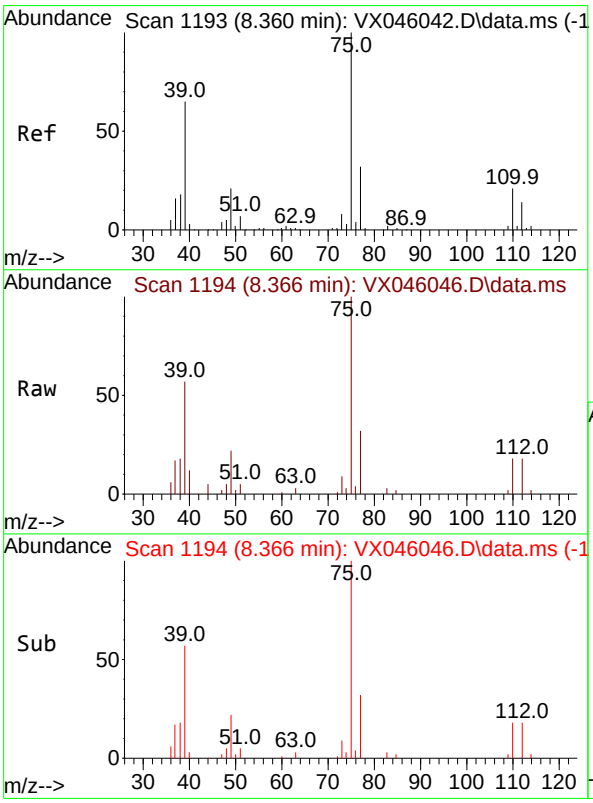
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.1 | 25.0 | 37.6 |




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

**Manual Integrations APPROVED**

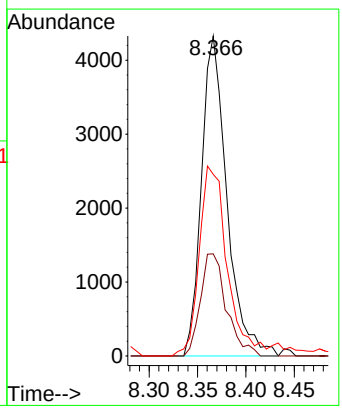
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

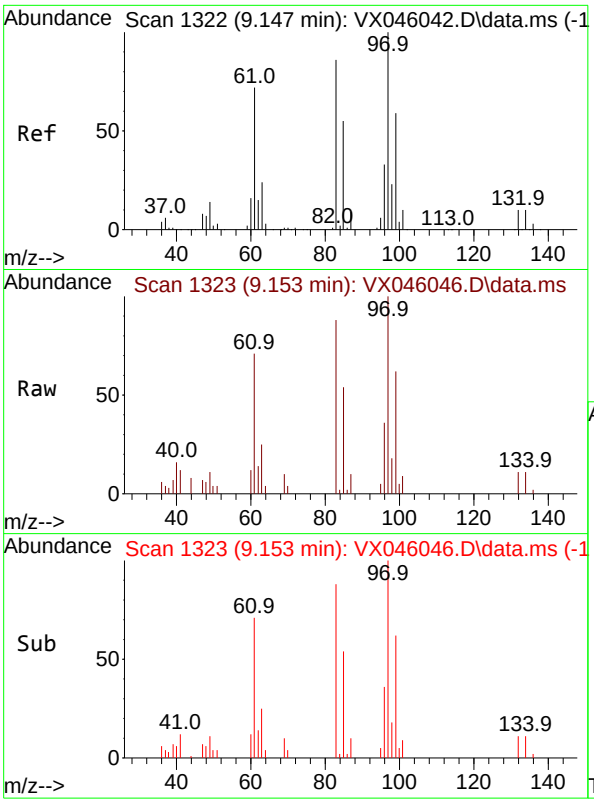



#54
cis-1,3-Dichloropropene
Concen: 3.129 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 7908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.4 | 38.0 |
| 39 | 55.3 | 52.2 | 78.4 |

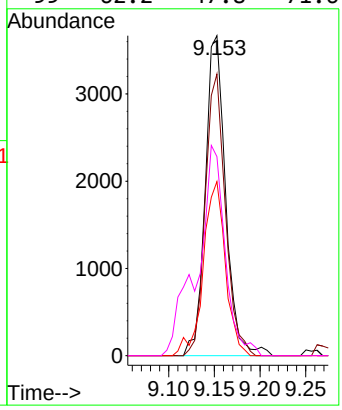





#55
1,1,2-Trichloroethane
Concen: 3.490 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 97 Resp: 568

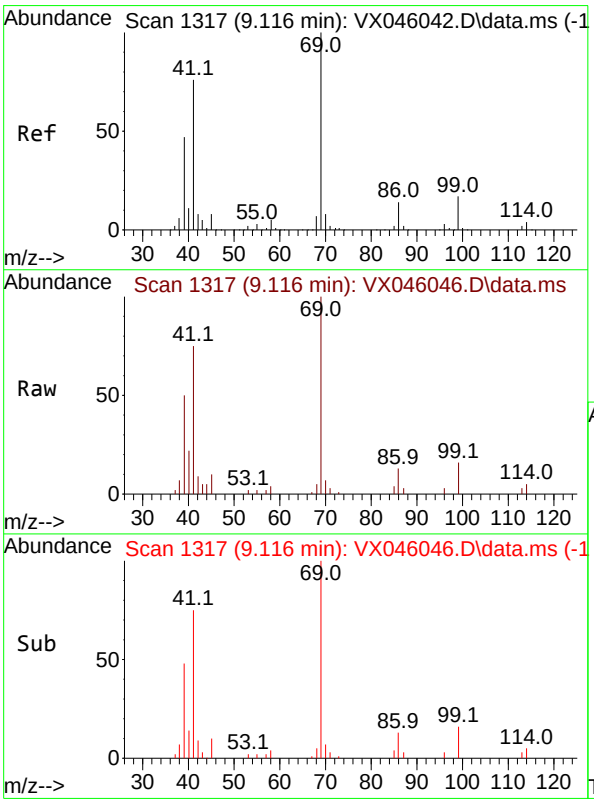
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.0 | 69.0 | 103.6 |
| 85 | 54.4 | 44.3 | 66.5 |
| 99 | 62.2 | 47.8 | 71.6 |




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

**Manual Integrations APPROVED**

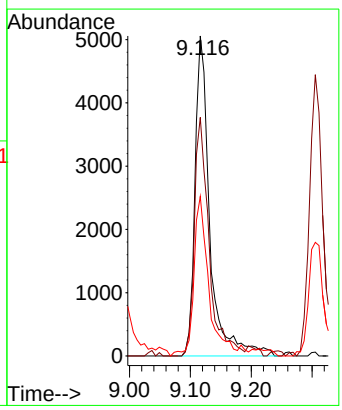
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

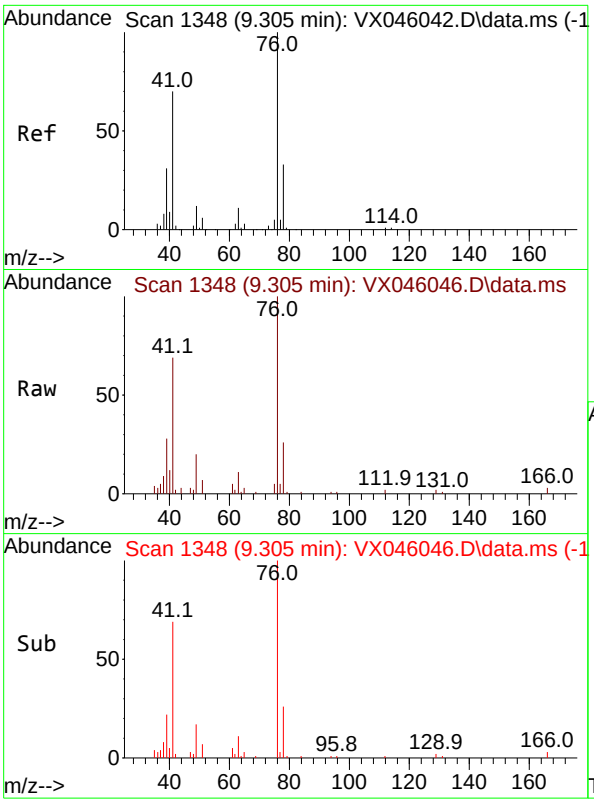



#56
Ethyl methacrylate
Concen: 3.390 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 69 Resp: 8555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 73.7 | 60.8 | 91.2 |
| 39 | 49.3 | 39.0 | 58.6 |






#57
1,3-Dichloropropane
Concen: 3.508 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

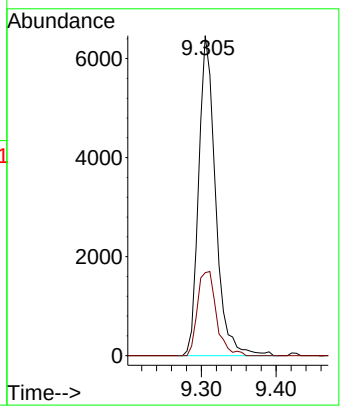
Tgt Ion: 76 Resp: 1012

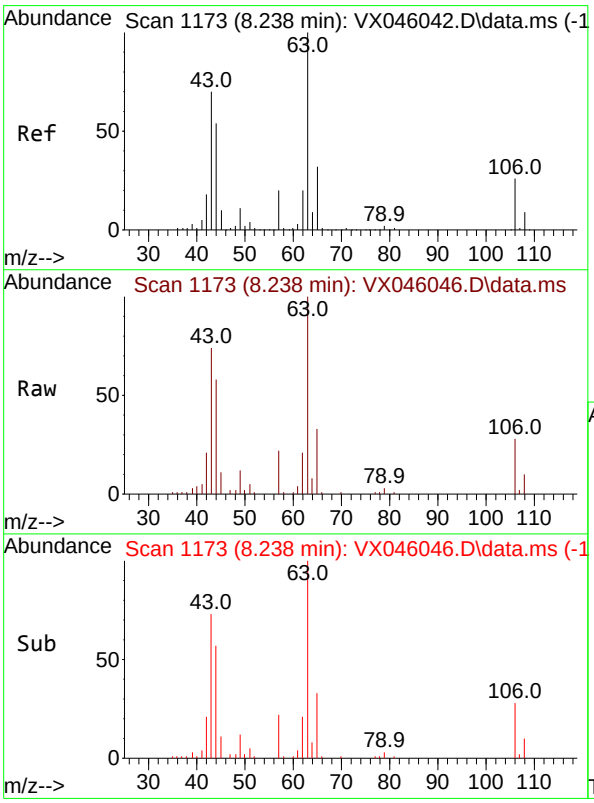
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 29.5 | 26.3 | 39.5 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

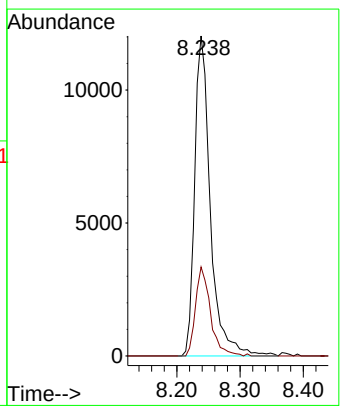


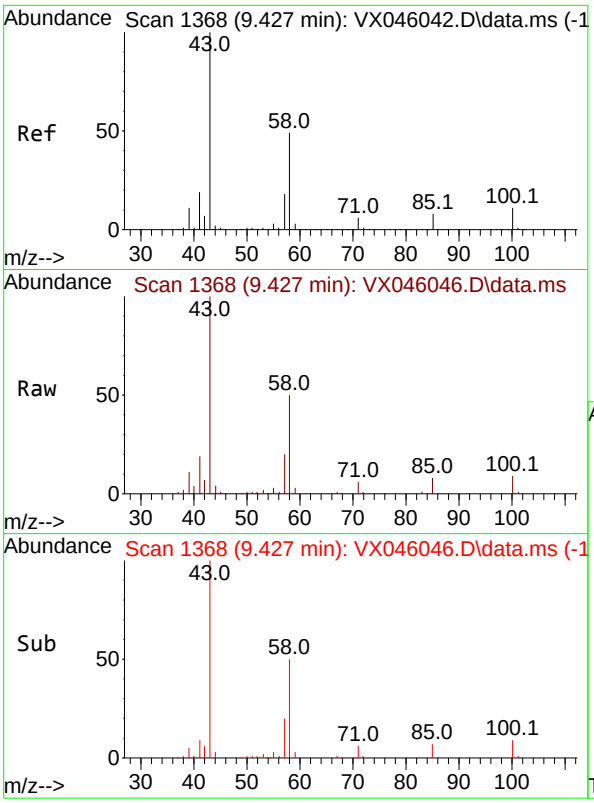




#58
2-Chloroethyl Vinyl ether
Concen: 18.346 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 63 Resp: 20809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.4 | 21.5 | 32.3 |






#59
2-Hexanone
Concen: 16.651 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

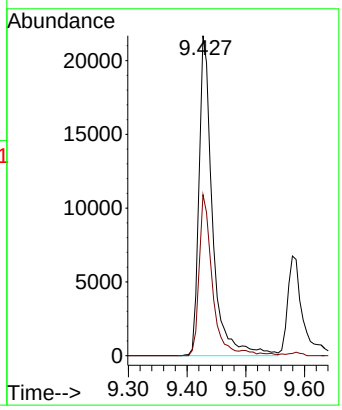
Tgt Ion: 43 Resp: 3485

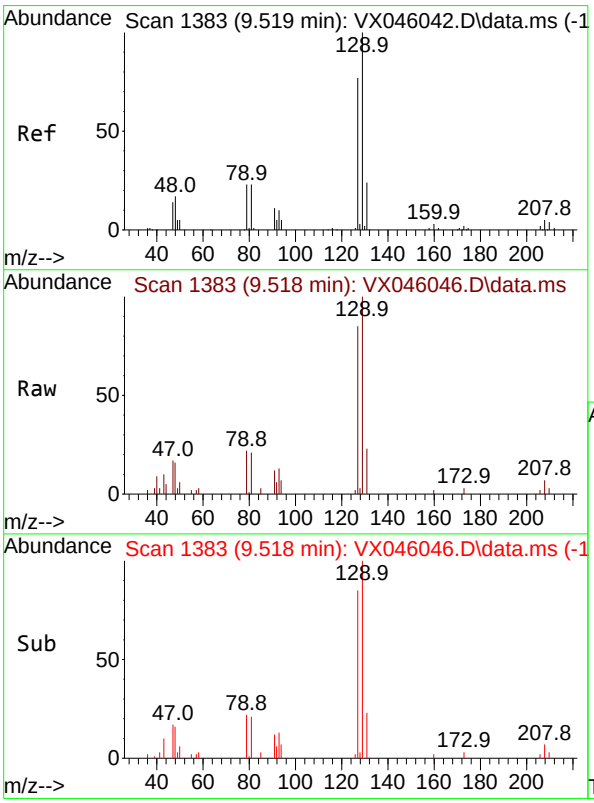
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 47.5 | 24.9 | 74.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

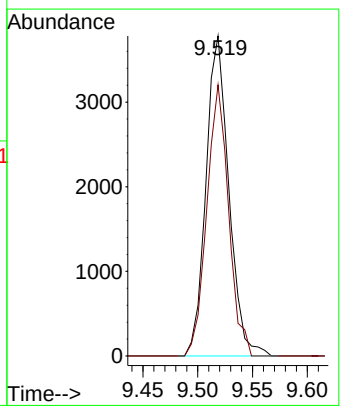


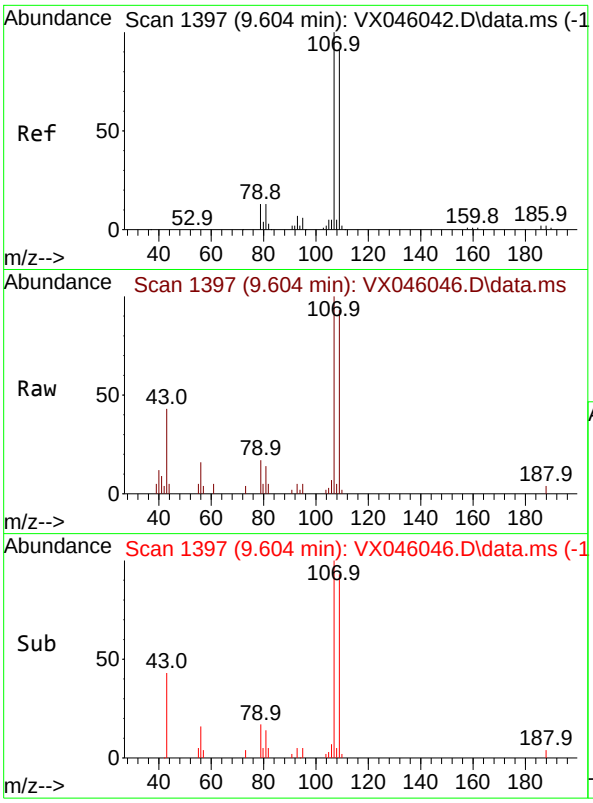




#60
Dibromochloromethane
Concen: 3.102 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:129 Resp: 5500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 80.4 | 39.3 | 117.8 |

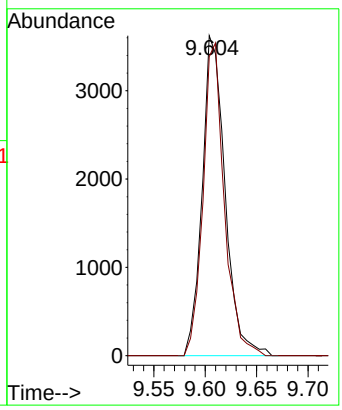





#61
1,2-Dibromoethane
Concen: 3.356 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:107 Resp: 561

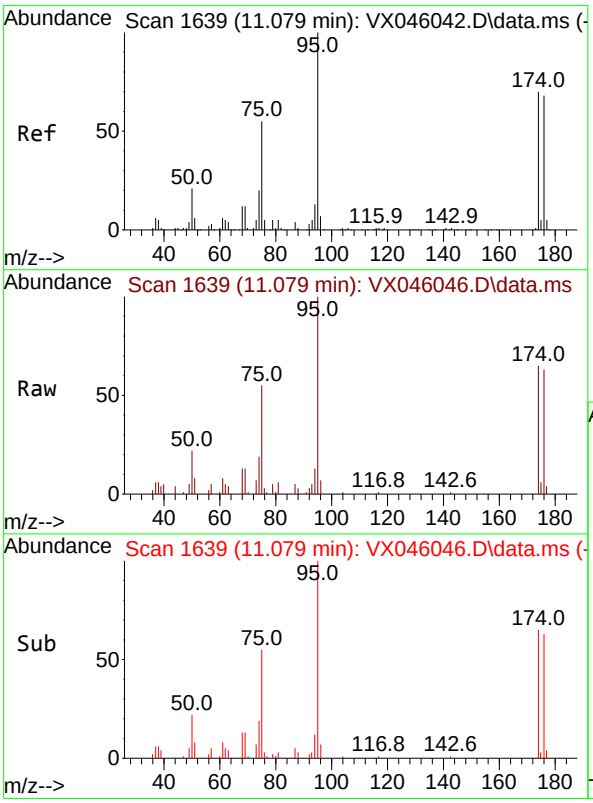
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.0 | 73.3 | 109.9 |




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

**Manual Integrations**
**APPROVED**

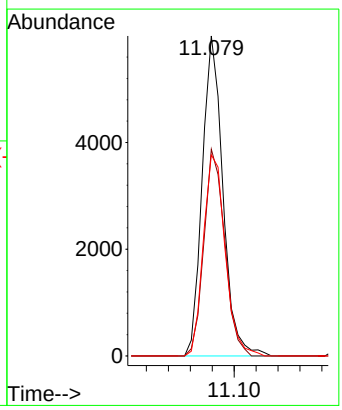
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

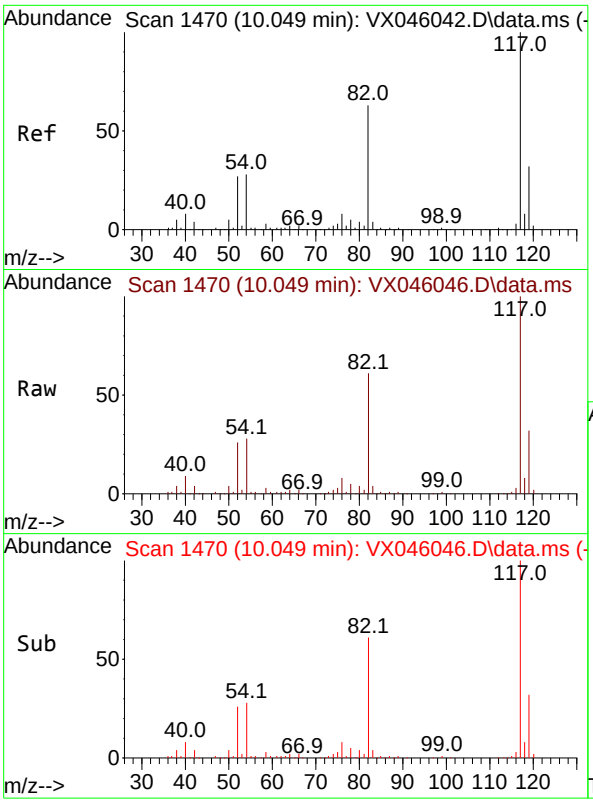



#62
4-Bromofluorobenzene
Concen: 3.378 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 95 Resp: 7822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.0 | 0.0 | 135.8 |
| 176 | 66.6 | 0.0 | 131.4 |

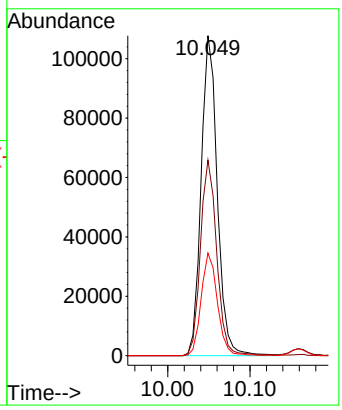





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:117 Resp: 14716

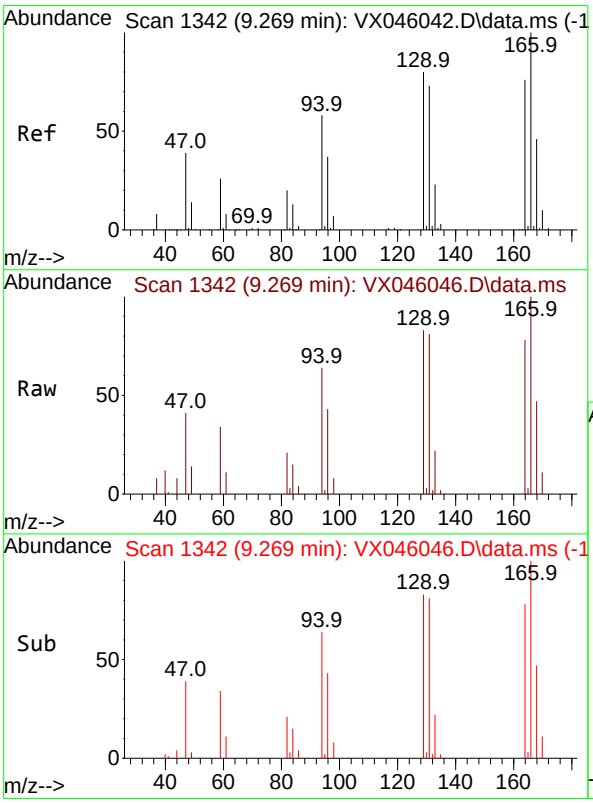
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.1 | 50.6 | 76.0 |
| 119 | 32.1 | 25.8 | 38.6 |




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

**Manual Integrations APPROVED**

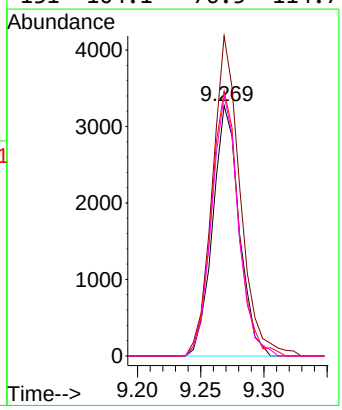
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

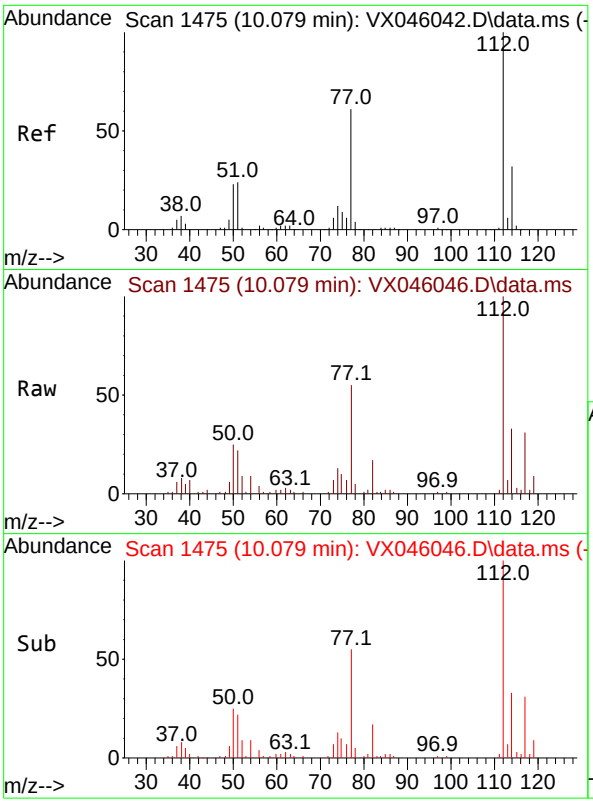



#64
Tetrachloroethene
Concen: 3.162 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:164 Resp: 4752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.8 | 105.0 | 157.6 |
| 129 | 105.8 | 83.5 | 125.3 |
| 131 | 104.1 | 76.5 | 114.7 |

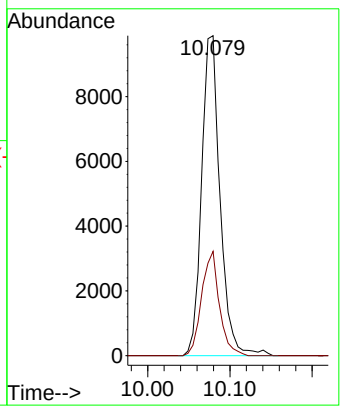





#65
Chlorobenzene
Concen: 3.399 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:112 Resp: 1539

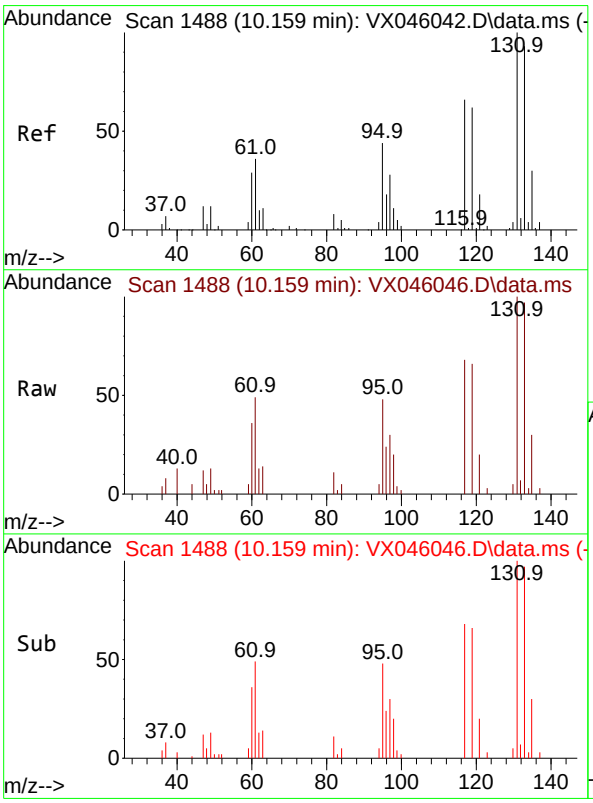
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.6 | 25.4 | 38.2 |




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

**Manual Integrations APPROVED**

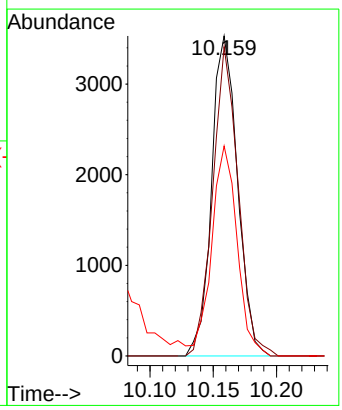
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

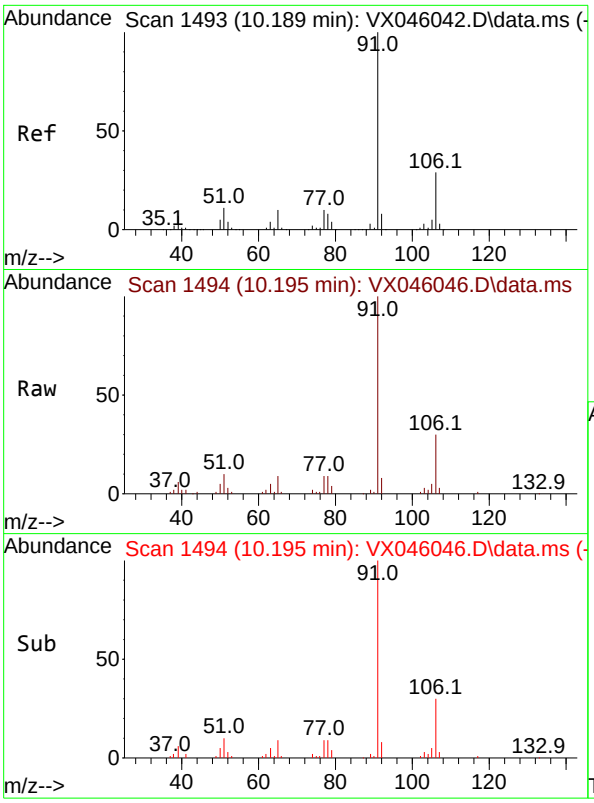



#66
1,1,1,2-Tetrachloroethane
Concen: 3.326 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:131 Resp: 5024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.0 | 47.3 | 141.9 |
| 119 | 64.8 | 31.6 | 95.0 |






#67
Ethyl Benzene
Concen: 3.463 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

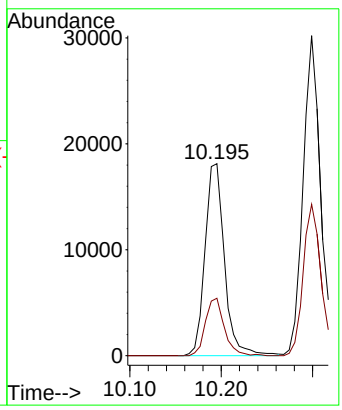
Tgt Ion: 91 Resp: 2673

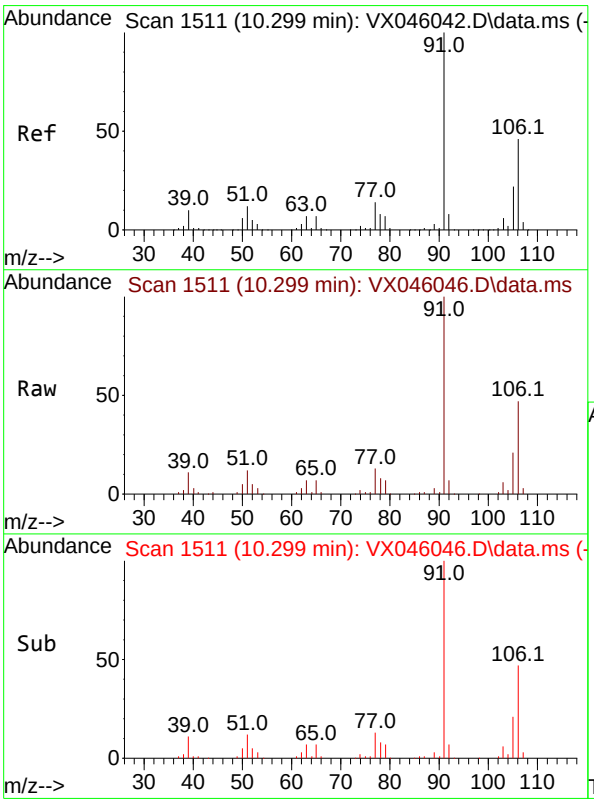
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.9 | 23.4 | 35.2 |

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

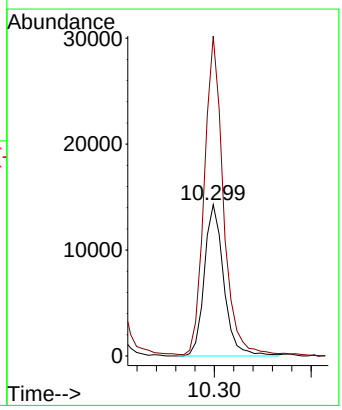


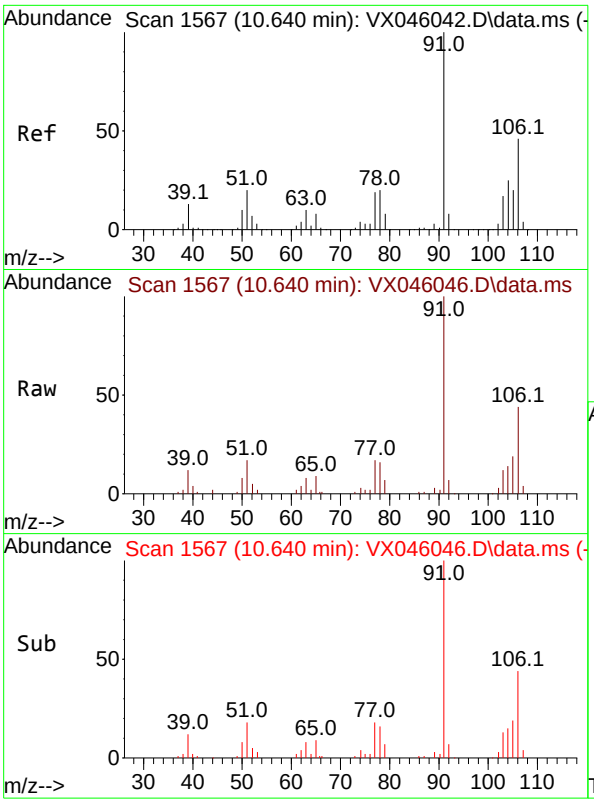




#68
m/p-Xylenes
Concen: 7.156 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:106 Resp: 19957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.1 | 171.2 | 256.8 |

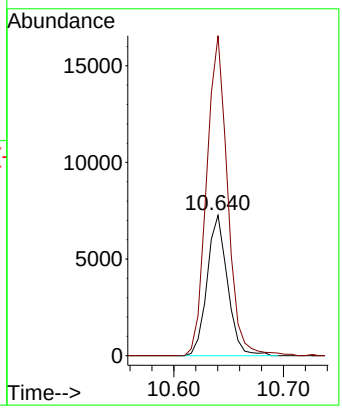





#69
o-Xylene
Concen: 3.343 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:106 Resp: 939

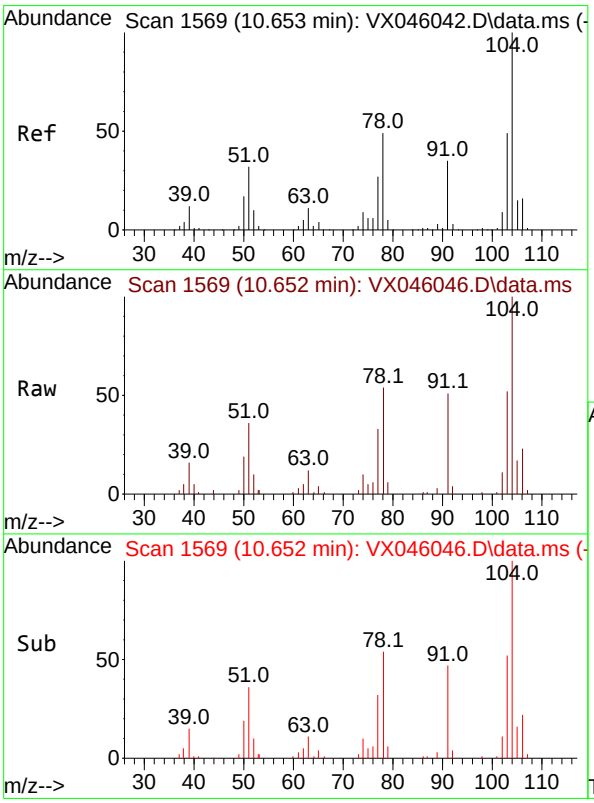
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 233.6 | 112.7 | 338.1 |




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

**Manual Integrations APPROVED**

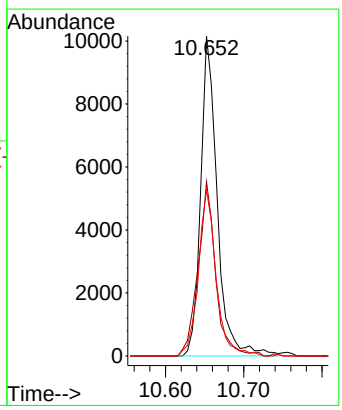
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

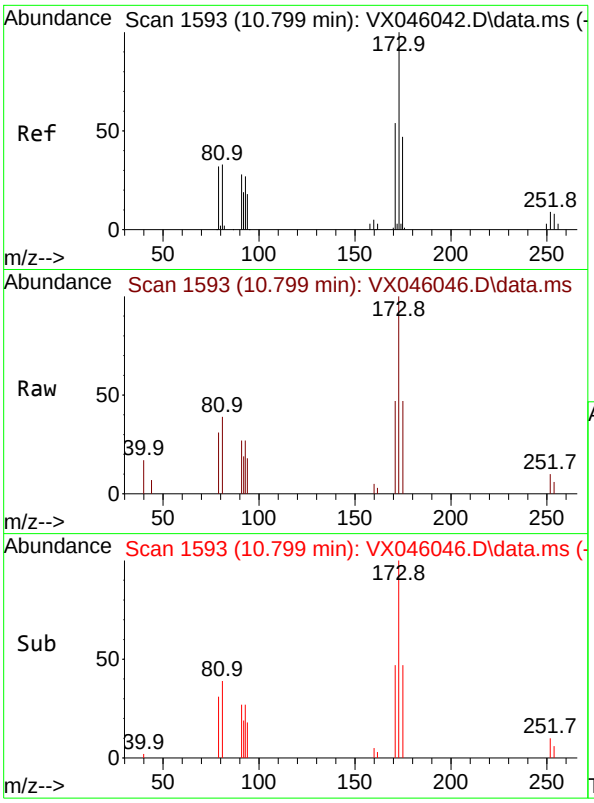



#70
Styrene
Concen: 3.312 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:104 Resp: 14900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 57.9 | 45.7 | 68.5 |
| 103 | 55.6 | 43.7 | 65.5 |

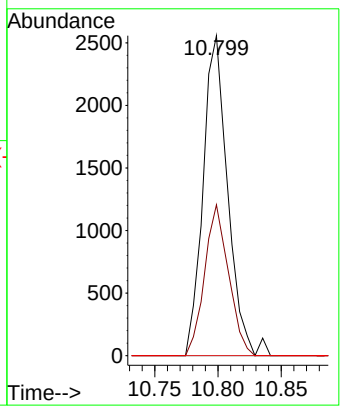





#71
Bromoform
Concen: 3.059 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:173 Resp: 347

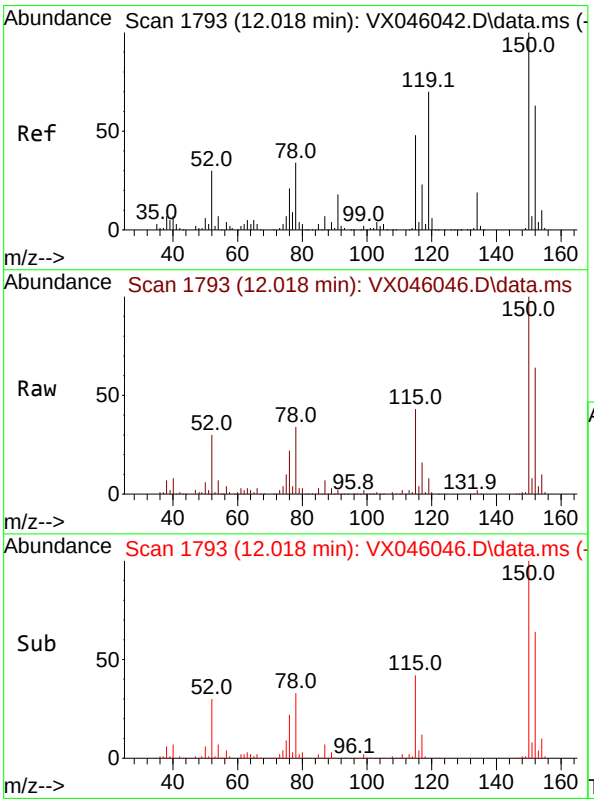
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 45.8 | 23.4 | 70.0 |
| 254 | 0.0 | 0.0 | 0.0 |




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

**Manual Integrations APPROVED**

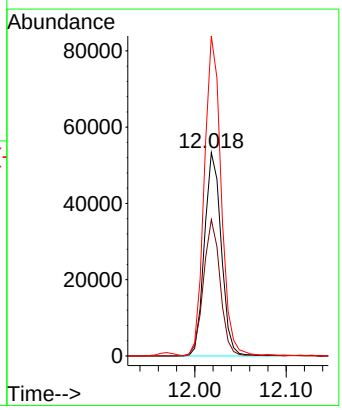
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

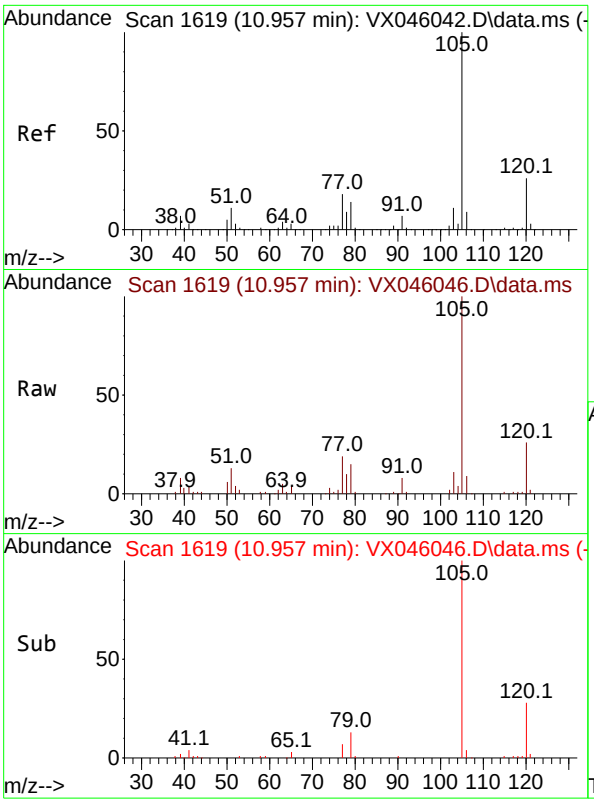



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:152 Resp: 67939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 66.8 | 46.9 | 140.7 |
| 150 | 157.5 | 0.0 | 351.0 |






#73
Isopropylbenzene
Concen: 3.266 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

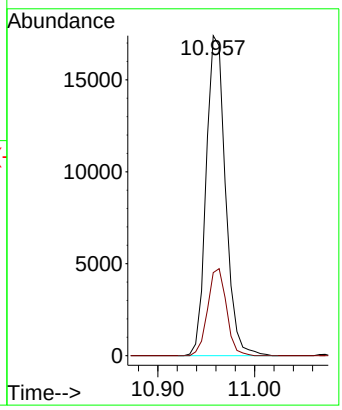
Tgt Ion:105 Resp: 2420

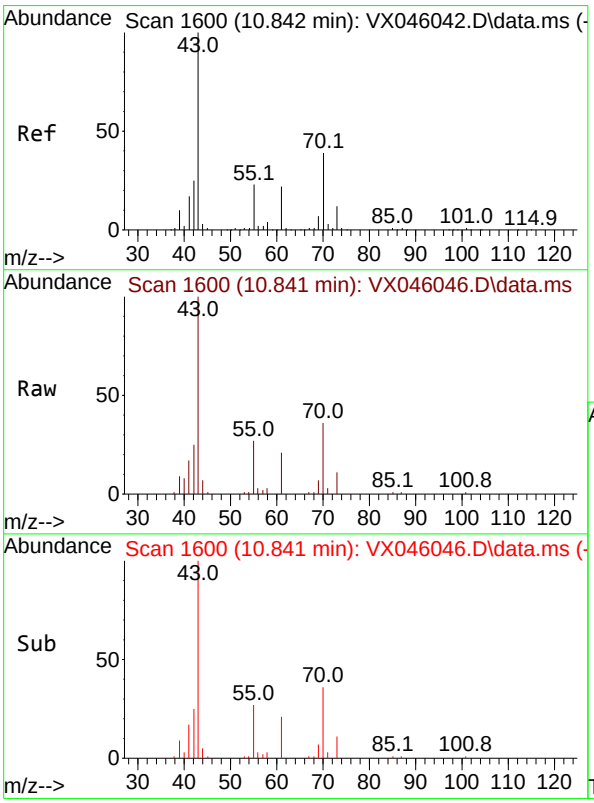
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 12.8 | 38.4 |

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

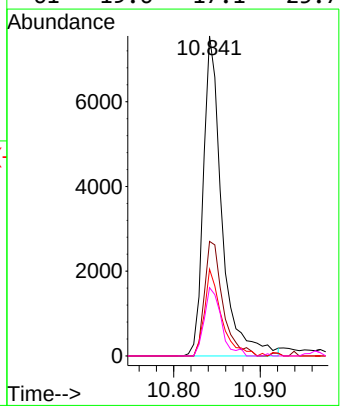


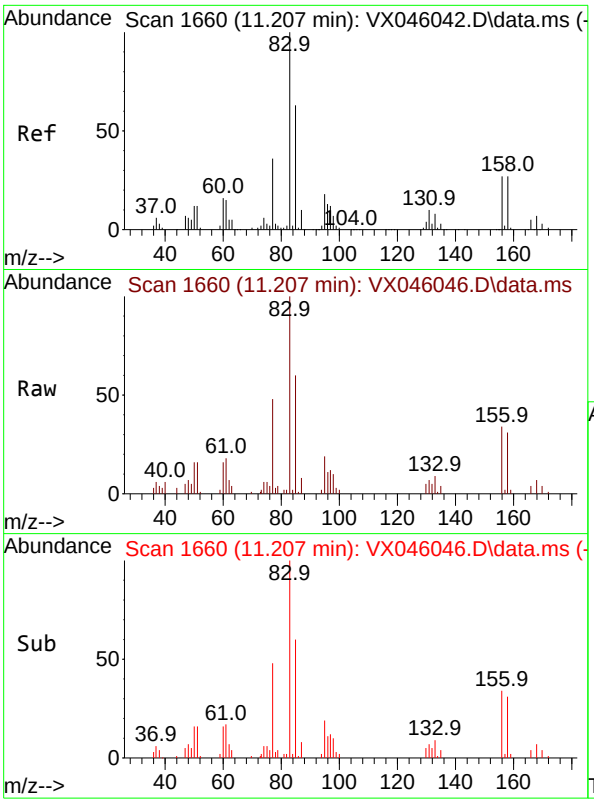




#74
N-amyl acetate
Concen: 3.038 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 11224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 35.4 | 30.9 | 46.3 |
| 55 | 25.0 | 18.7 | 28.1 |
| 61 | 19.6 | 17.1 | 25.7 |

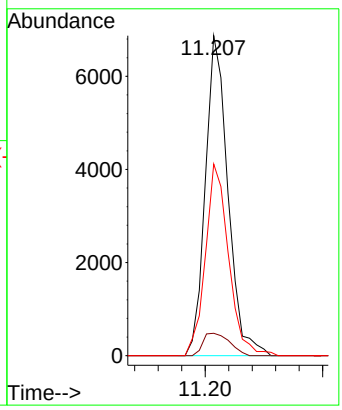





#75
1,1,2,2-Tetrachloroethane
Concen: 3.479 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 83 Resp: 917

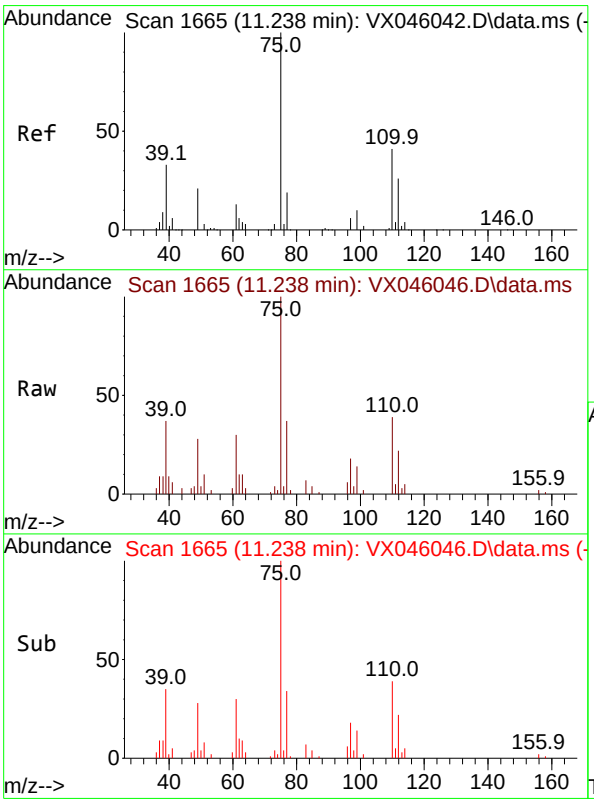
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 8.3 | 5.0 | 14.9 |
| 85 | 61.7 | 31.9 | 95.7 |




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

**Manual Integrations**
**APPROVED**

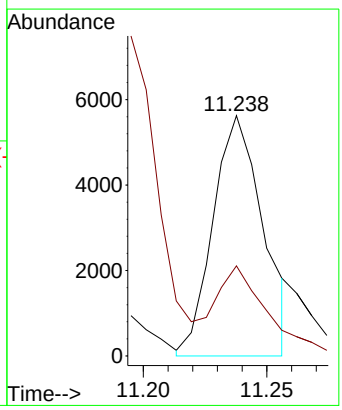
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

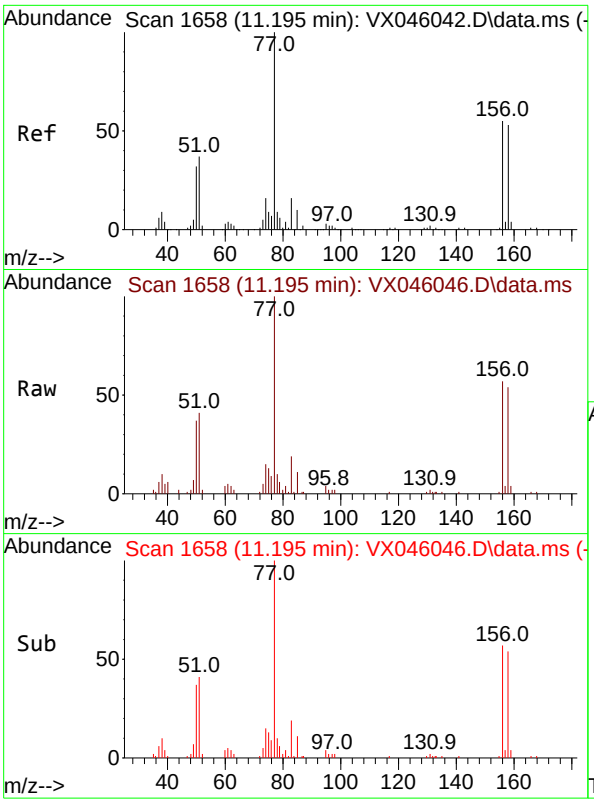



#76
1,2,3-Trichloropropane
Concen: 2.799 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 7928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 40.6 | 20.5 | 61.5 |

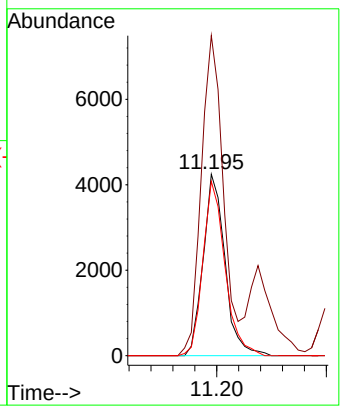





#77
Bromobenzene
Concen: 3.417 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:156 Resp: 585

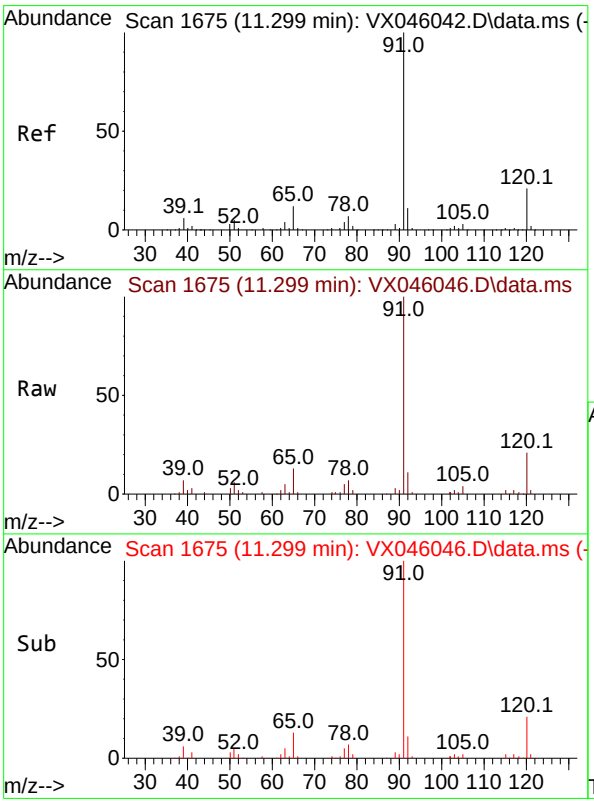
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 177.0 | 92.8 | 278.3 |
| 158 | 97.7 | 48.8 | 146.3 |




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

**Manual Integrations**
**APPROVED**

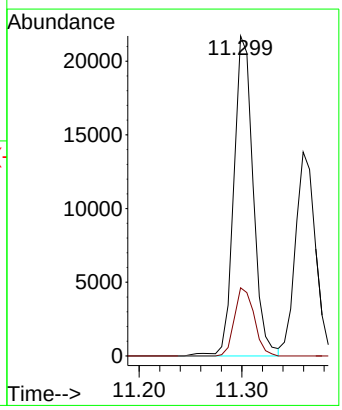
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

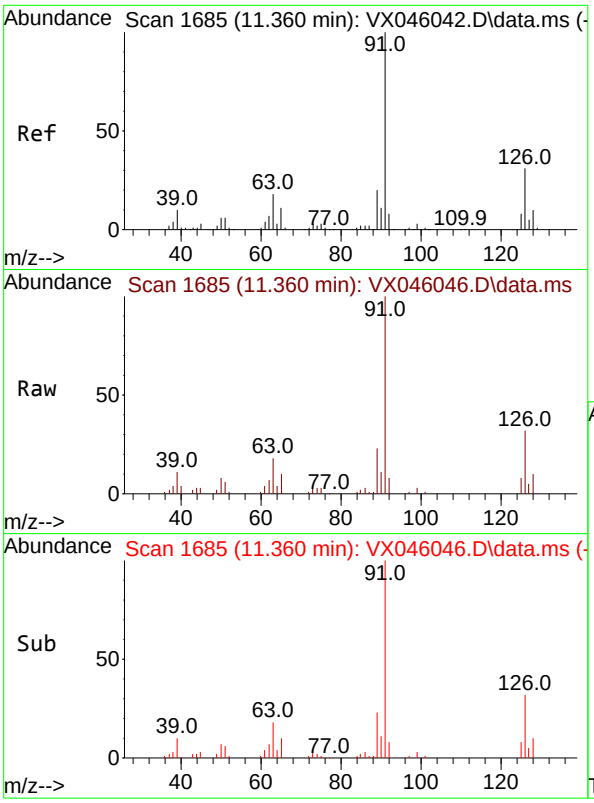



#78
n-propylbenzene
Concen: 3.424 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 91 Resp: 28436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.7 | 10.8 | 32.4 |

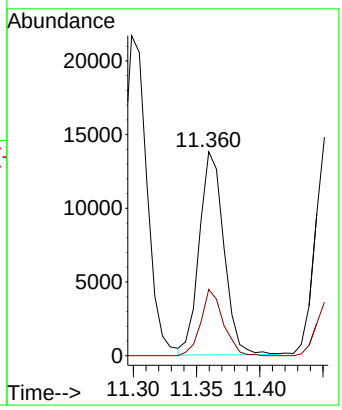





#79
2-Chlorotoluene
Concen: 3.336 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 91 Resp: 1867

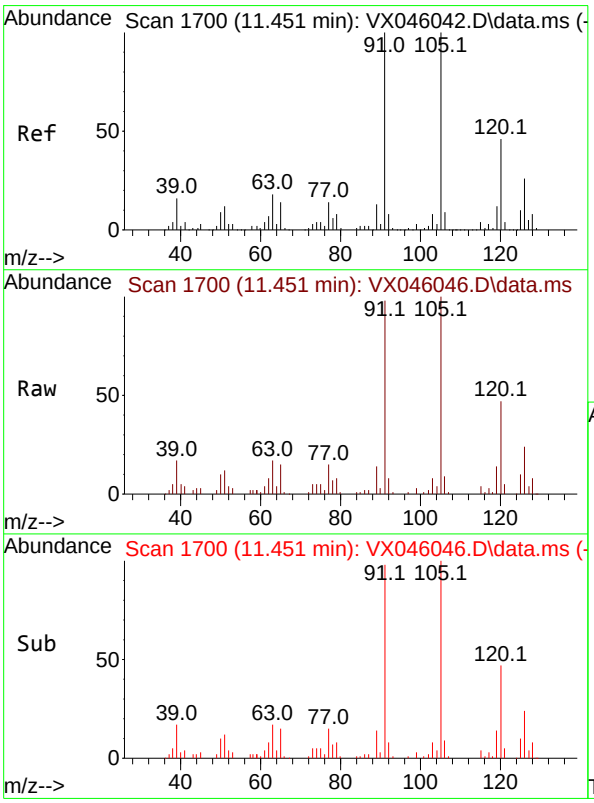
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.7 | 15.6 | 46.7 |




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

**Manual Integrations APPROVED**

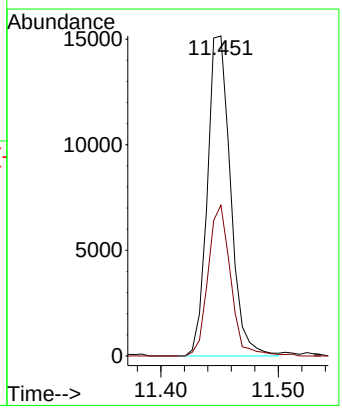
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

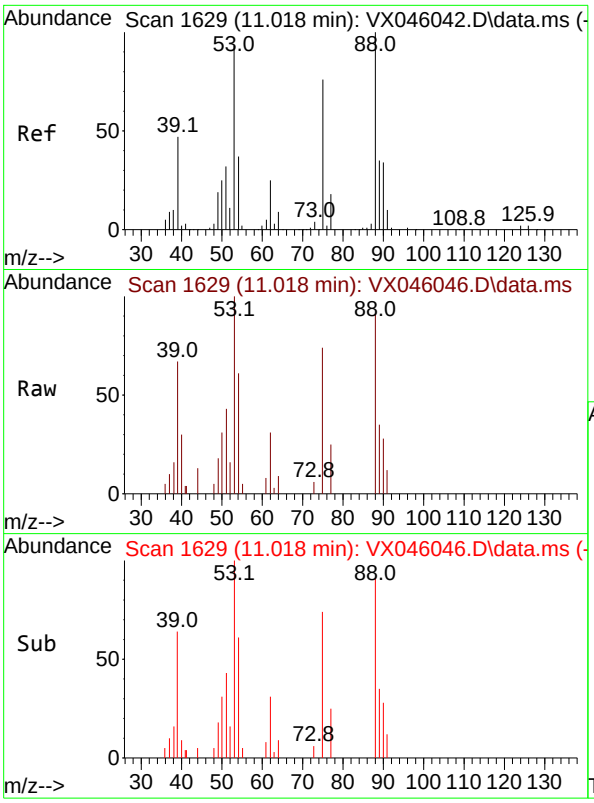



#80
1,3,5-Trimethylbenzene
Concen: 3.372 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:105 Resp: 20742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.9 | 23.1 | 69.2 |

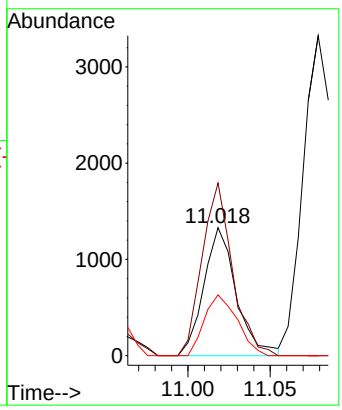





#81
trans-1,4-Dichloro-2-butene
Concen: 2.686 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 182

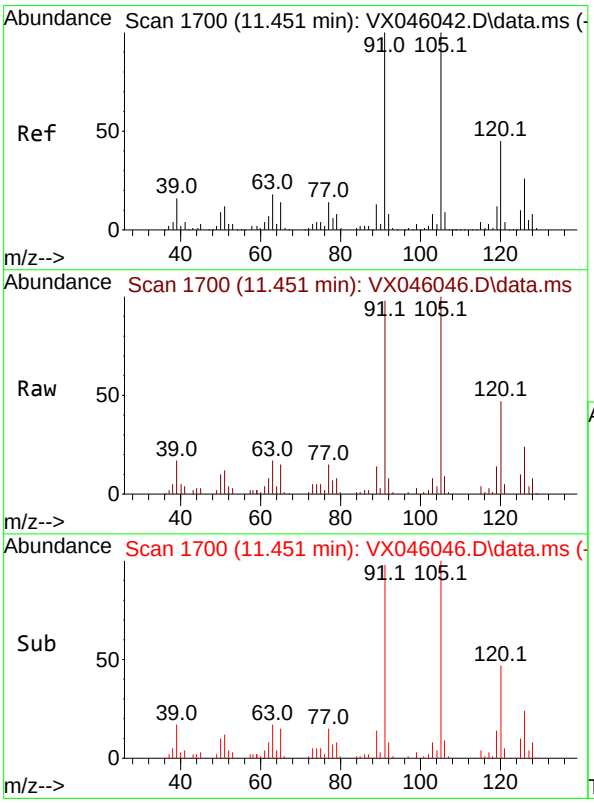
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 125.8 | 100.5 | 150.7 |
| 89 | 47.9 | 37.0 | 55.6 |




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

**Manual Integrations**
**APPROVED**

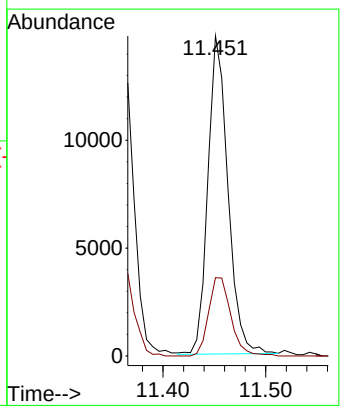
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

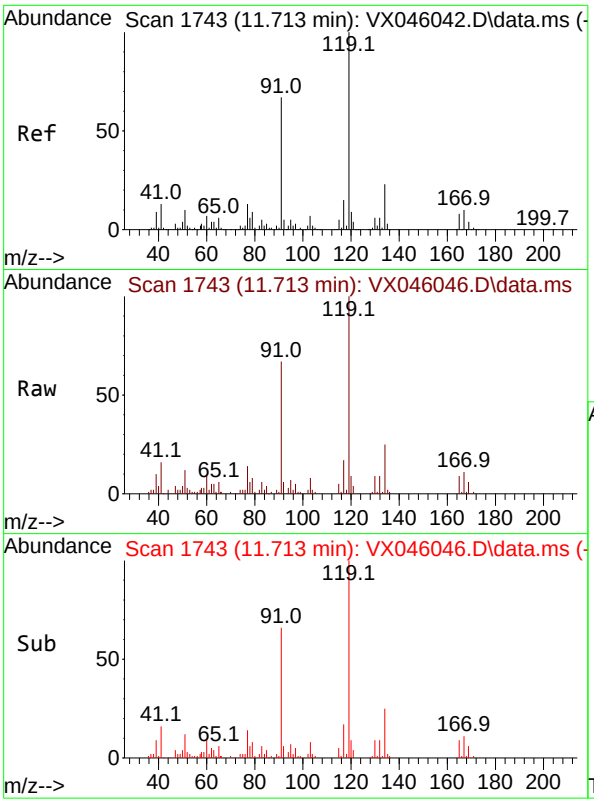



#82
4-Chlorotoluene
Concen: 3.245 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 91 Resp: 19966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.3 | 13.3 | 39.8 |






#83
tert-Butylbenzene
Concen: 3.484 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

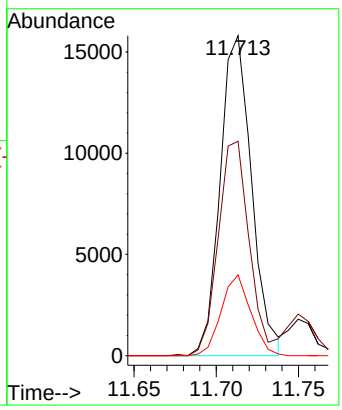
Tgt Ion:119 Resp: 2104

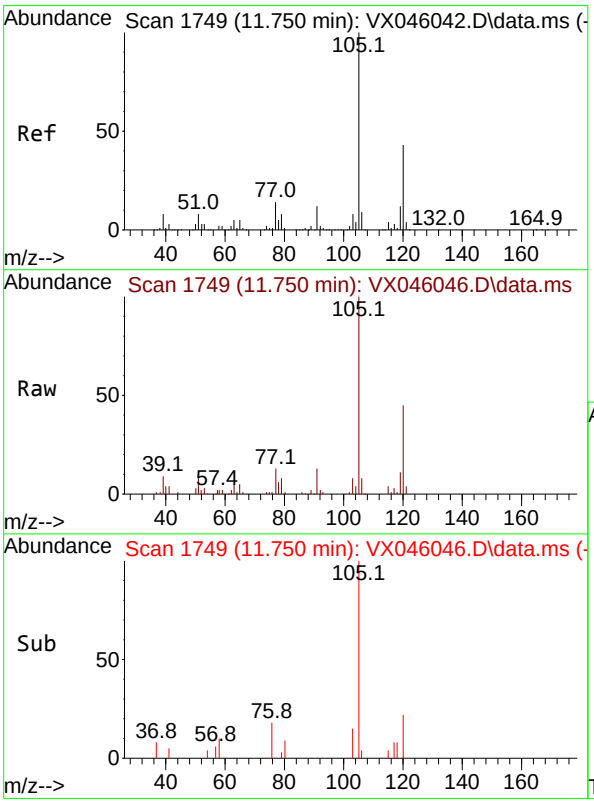
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.0 | 32.9 | 98.7 |
| 134 | 23.8 | 11.4 | 34.1 |

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

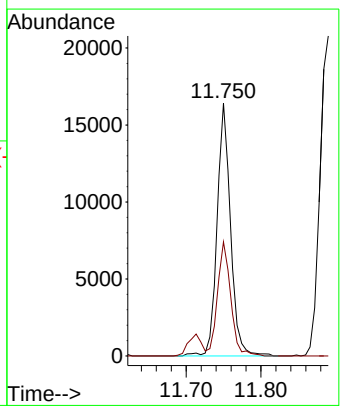


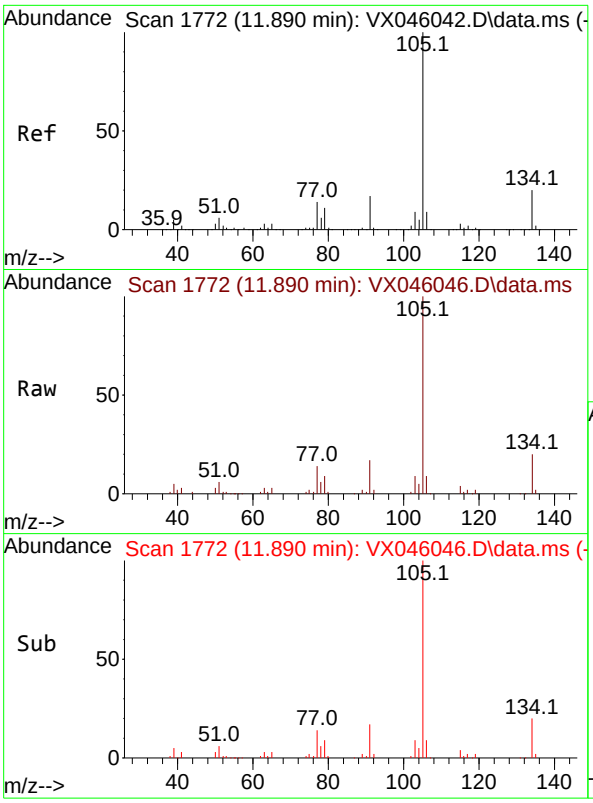




#84
1,2,4-Trimethylbenzene
Concen: 3.355 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:105 Resp: 20613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.5 | 21.2 | 63.6 |






#85
sec-Butylbenzene
Concen: 3.412 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

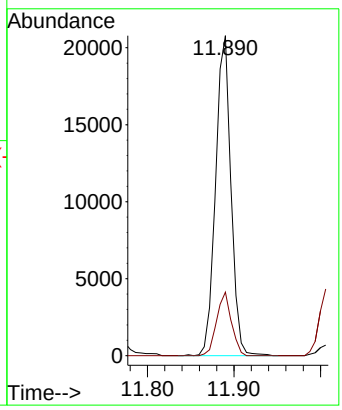
Tgt Ion:105 Resp: 2559

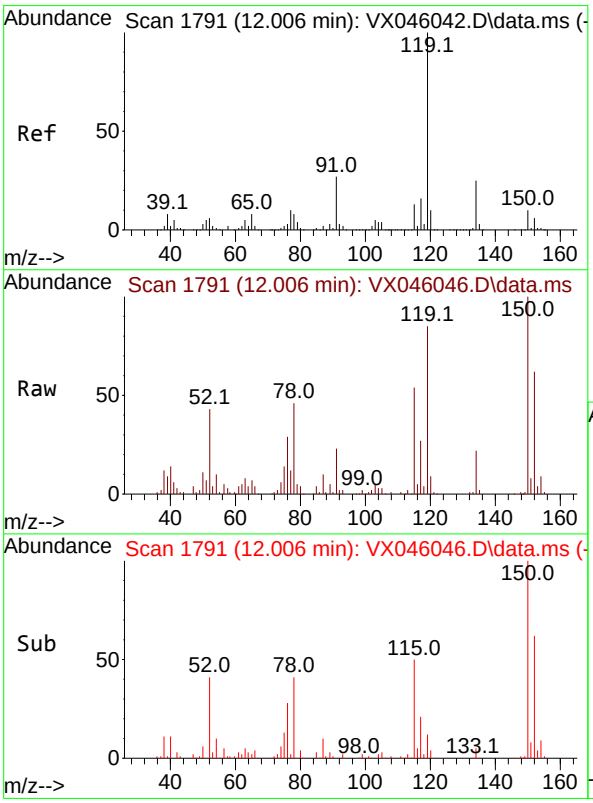
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.1 | 9.7 | 29.1 |

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

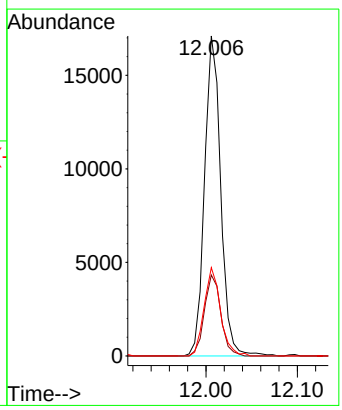


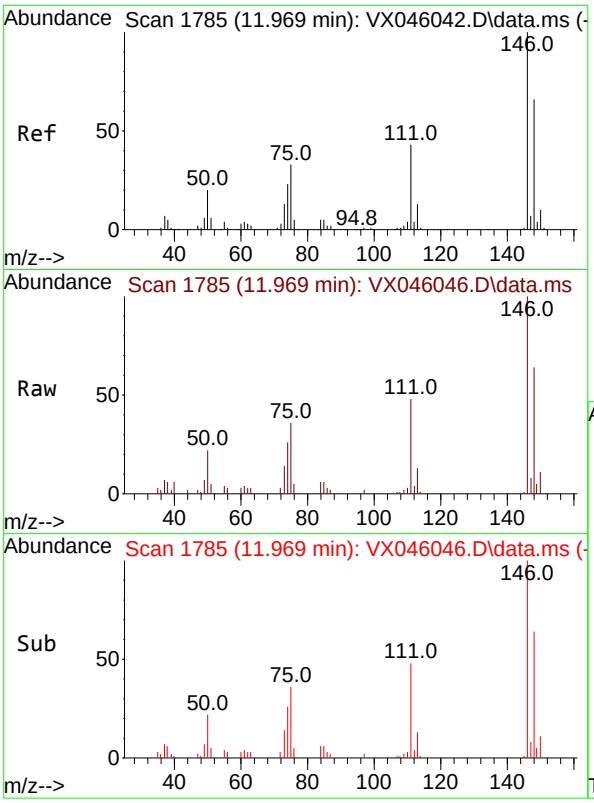




#86
p-Isopropyltoluene
Concen: 3.460 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:119 Resp: 20955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.6 | 12.5 | 37.5 |
| 91 | 28.0 | 13.8 | 41.4 |

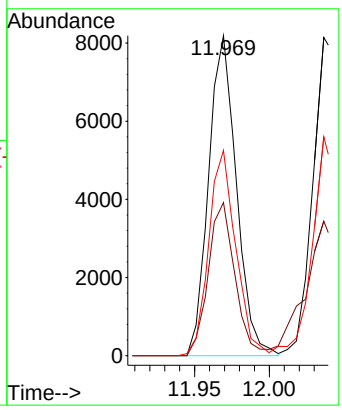





#87
1,3-Dichlorobenzene
Concen: 3.315 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:146 Resp: 1058

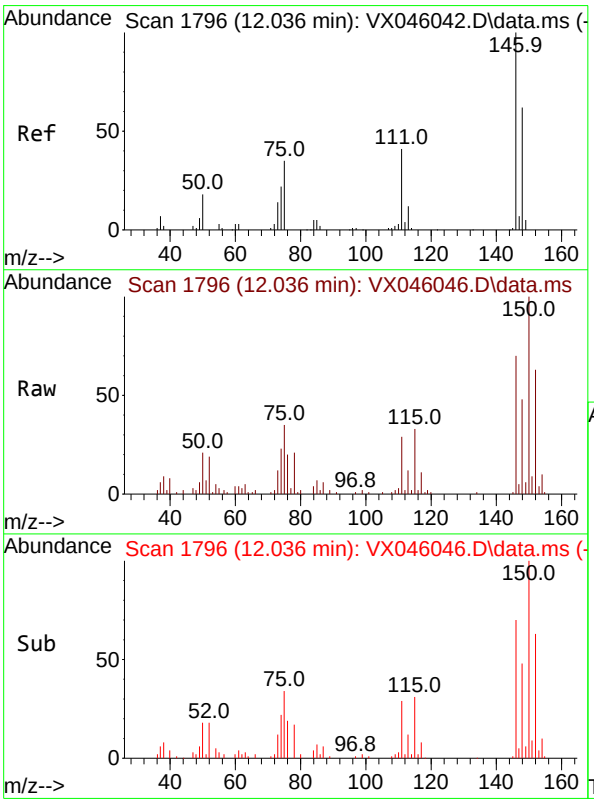
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.2 | 22.1 | 66.3 |
| 148 | 62.4 | 32.1 | 96.5 |




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

**Manual Integrations**
**APPROVED**

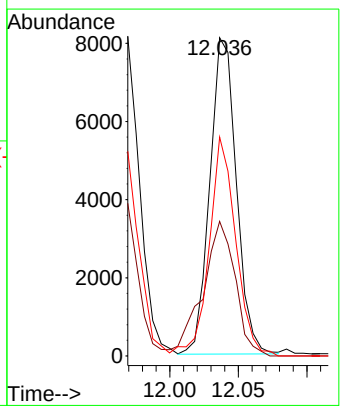
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

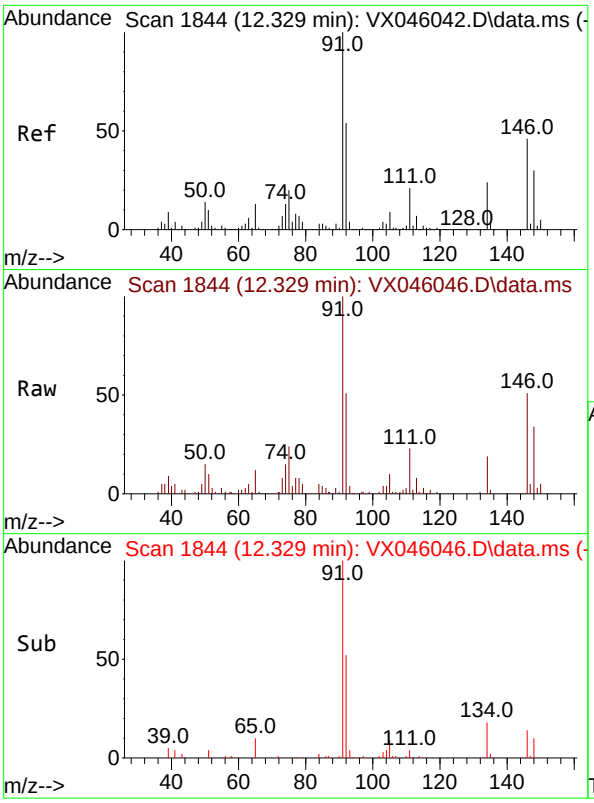



#88
1,4-Dichlorobenzene
Concen: 3.486 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:146 Resp: 10908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 52.1 | 21.3 | 63.9 |
| 148 | 69.4 | 31.9 | 95.5 |

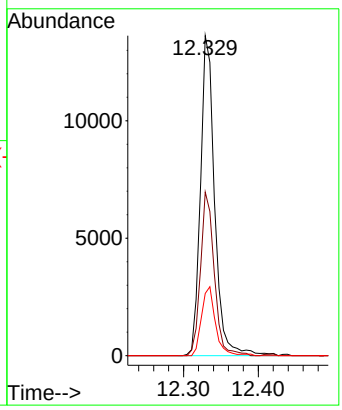





#89
n-Butylbenzene
Concen: 3.419 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 91 Resp: 1800

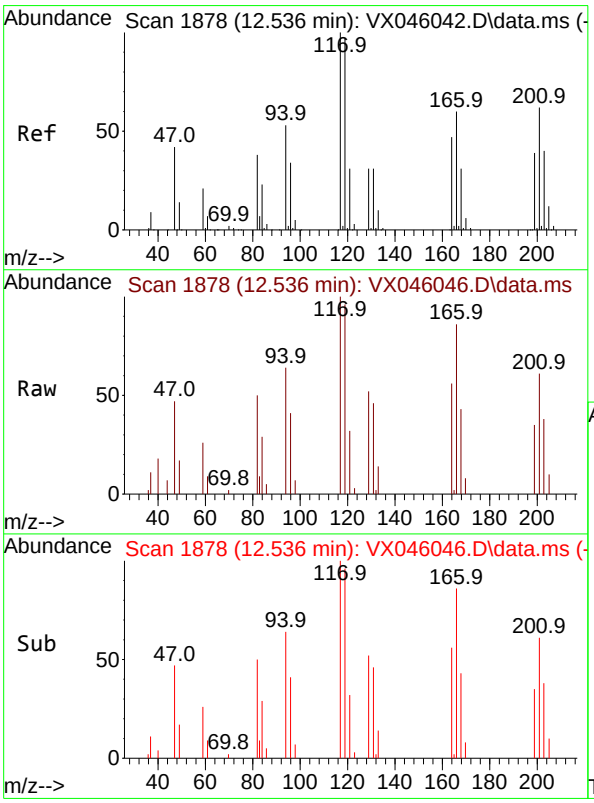
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 49.5 | 26.9 | 80.7 |
| 134 | 21.2 | 11.8 | 35.3 |




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

**Manual Integrations**
**APPROVED**

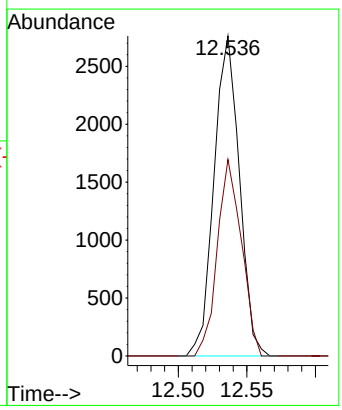
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

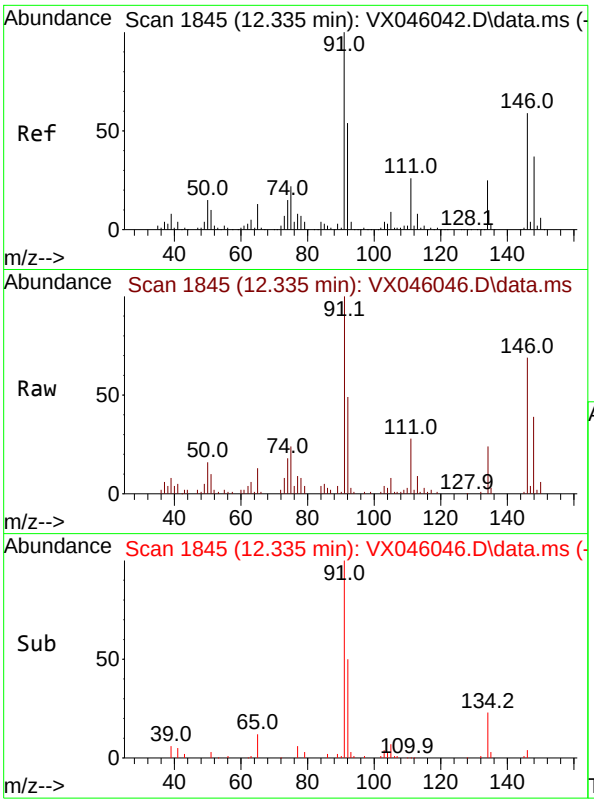



#90
Hexachloroethane
Concen: 3.153 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:117 Resp: 3553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 58.5 | 31.6 | 94.7 |

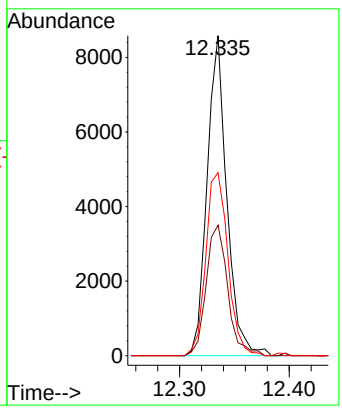





#91
1,2-Dichlorobenzene
Concen: 3.444 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:146 Resp: 1071

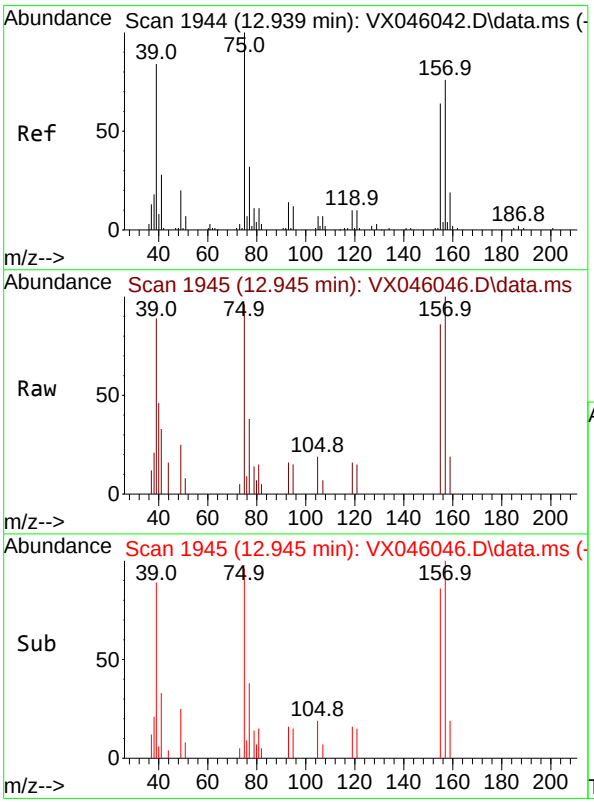
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.7 | 22.4 | 67.3 |
| 148 | 64.2 | 31.6 | 94.8 |




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

**Manual Integrations APPROVED**

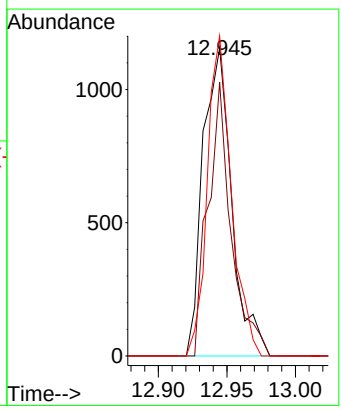
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

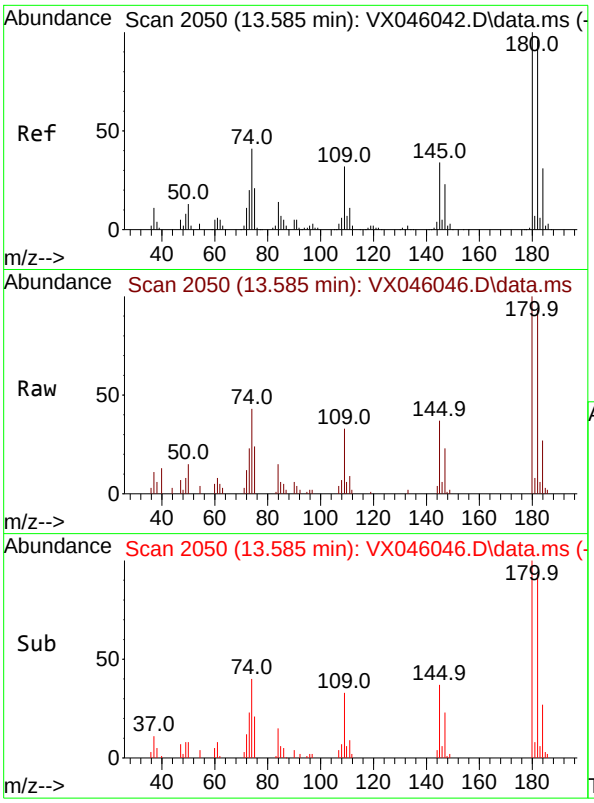



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.812 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 1687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 71.7 | 34.9 | 104.8 |
| 157 | 87.0 | 43.8 | 131.4 |

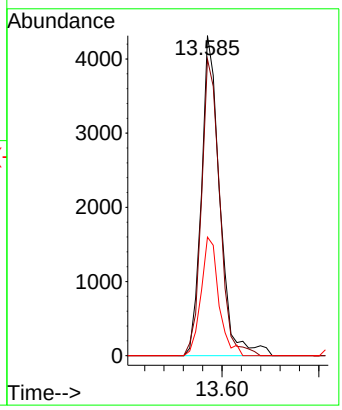





#93
1,2,4-Trichlorobenzene
Concen: 3.359 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:180 Resp: 572

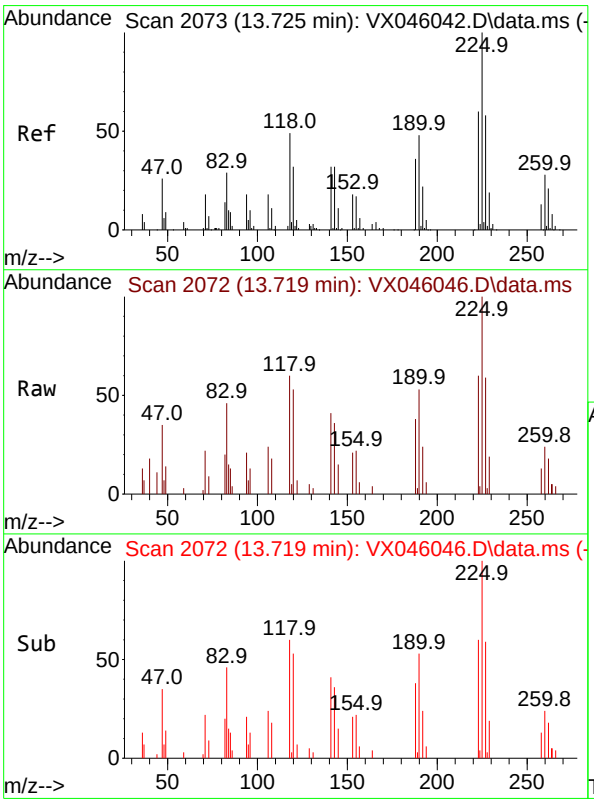
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 91.6 | 47.9 | 143.8 |
| 145 | 35.7 | 17.1 | 51.2 |




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

**Manual Integrations APPROVED**

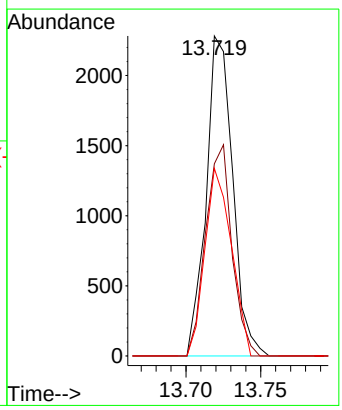
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

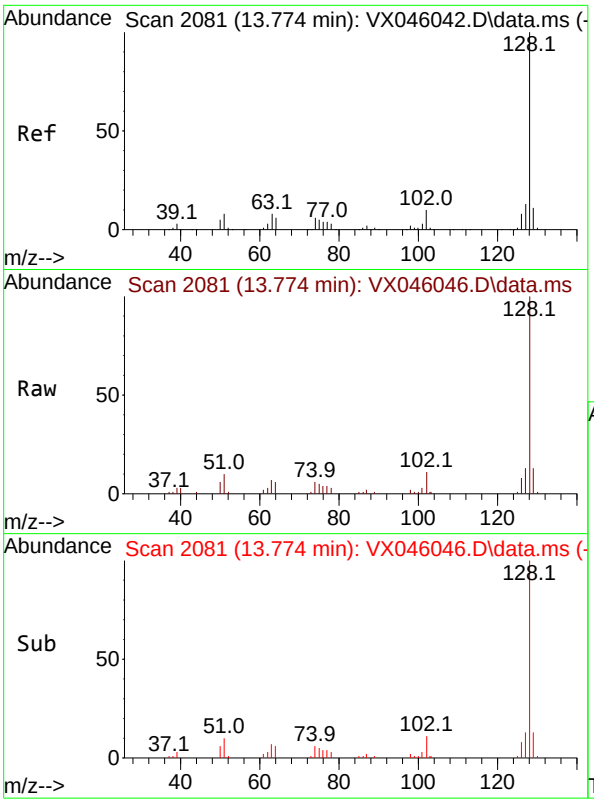



#94
Hexachlorobutadiene
Concen: 3.535 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:225 Resp: 2816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 65.1 | 30.8 | 92.4 |
| 227 | 58.8 | 30.9 | 92.7 |

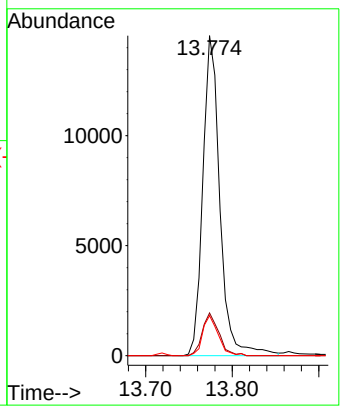





#95
Naphthalene
Concen: 3.209 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:128 Resp: 1990

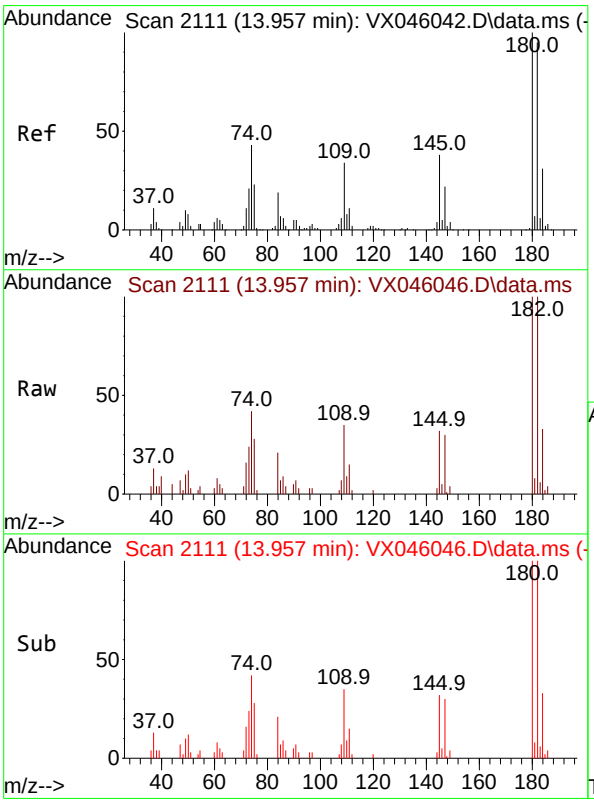
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.4 | 15.6 |
| 129 | 11.5 | 8.6 | 13.0 |




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

**Manual Integrations APPROVED**

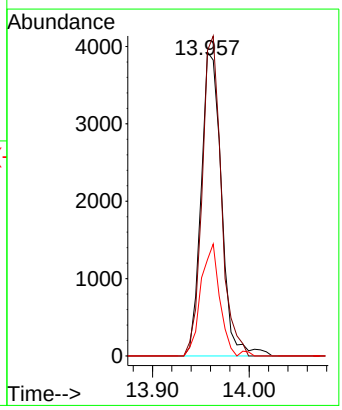
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025




#96
1,2,3-Trichlorobenzene
Concen: 3.217 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:180 Resp: 5745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 99.1 | 47.8 | 143.3 |
| 145 | 34.8 | 18.1 | 54.3 |



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Data File : VX046047.D
Acq On : 05 May 2025 16:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

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

**Manual Integrations APPROVED**
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 92040 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 167022 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 140108 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 59123 | 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 | 1.166 | 85 | 1211 | 0.596 | ug/l | | 98 |
| 3) Chloromethane | 1.307 | 50 | 1278 | 0.639 | ug/l | | 97 |
| 4) Vinyl Chloride | 1.374 | 62 | 1239 | 0.707 | ug/l | # | 82 |
| 6) Chloroethane | 1.678 | 64 | 859 | 0.951 | ug/l | | 91 |
| 7) Trichlorofluoromethane | 1.880 | 101 | 1959 | 0.734 | ug/l | | 95 |
| 8) Diethyl Ether | 2.130 | 74 | 742 | 0.845 | ug/l | | 87 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 1166 | 0.731 | ug/l | | 96 |
| 12) 1,1-Dichloroethene | 2.313 | 96 | 1093 | 0.704 | ug/l | # | 87 |
| 14) Allyl chloride | 2.654 | 41 | 1936 | 0.660 | ug/l | | 89 |
| 15) Acrylonitrile | 3.075 | 53 | 3343 | 3.424 | ug/l | | 98 |
| 16) Acetone | 2.380 | 43 | 3500 | 3.736 | ug/l | | 97 |
| 17) Carbon Disulfide | 2.508 | 76 | 2619 | 0.728 | ug/l | | 98 |
| 18) Methyl Acetate | 2.709 | 43 | 1852 | 0.828 | ug/l | | 98 |
| 19) Methyl tert-butyl Ether | 3.117 | 73 | 3588 | 0.662 | ug/l | | 96 |
| 20) Methylene Chloride | 2.782 | 84 | 1571 | 0.828 | ug/l | # | 90 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 1111 | 0.701 | ug/l | # | 71 |
| 22) Diisopropyl ether | 3.757 | 45 | 3857 | 0.703 | ug/l | # | 26 |
| 23) Vinyl Acetate | 3.727 | 43 | 15283 | 3.154 | ug/l | | 96 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 2054 | 0.637 | ug/l | | 97 |
| 25) 2-Butanone | 4.593 | 43 | 4558 | 3.371 | ug/l | | 92 |
| 26) 2,2-Dichloropropane | 4.458 | 77 | 1777 | 0.728 | ug/l | | 84 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 1324 | 0.693 | ug/l | | 91 |
| 28) Bromochloromethane | 4.910 | 49 | 1061m | 0.619 | ug/l | | |
| 29) Tetrahydrofuran | 5.019 | 42 | 2931 | 3.338 | ug/l | | 99 |
| 30) Chloroform | 5.093 | 83 | 2328 | 0.695 | ug/l | | 98 |
| 32) 1,1,1-Trichloroethane | 5.379 | 97 | 1869 | 0.647 | ug/l | # | 51 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 1648 | 0.758 | ug/l | # | 83 |
| 37) Ethyl Acetate | 4.733 | 43 | 1956m | 0.717 | ug/l | | |
| 38) Carbon Tetrachloride | 5.678 | 117 | 1807 | 0.724 | ug/l | # | 78 |
| 39) Methylcyclohexane | 7.373 | 83 | 2096 | 0.770 | ug/l | | 97 |
| 40) Benzene | 6.044 | 78 | 4502 | 0.668 | ug/l | # | 89 |
| 41) Methacrylonitrile | 4.946 | 41 | 778 | 0.513 | ug/l | # | 56 |
| 42) 1,2-Dichloroethane | 6.092 | 62 | 1934 | 0.694 | ug/l | | 81 |
| 43) Isopropyl Acetate | 6.354 | 43 | 2553 | 0.612 | ug/l | # | 81 |
| 44) Trichloroethene | 7.135 | 130 | 1083 | 0.680 | ug/l | | 85 |
| 45) 1,2-Dichloropropane | 7.440 | 63 | 1059 | 0.633 | ug/l | | 89 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046047.D
Acq On : 05 May 2025 16:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 06 06:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) Dibromomethane | 7.586 | 93 | 880 | 0.667 | ug/l | | 97 |
| 47) Bromodichloromethane | 7.818 | 83 | 1620 | 0.633 | ug/l | # | 91 |
| 48) Methyl methacrylate | 7.714 | 41 | 1235m | 0.577 | ug/l | | |
| 49) 1,4-Dioxane | 7.677 | 88 | 498 | 11.703 | ug/l | # | 66 |
| 51) 4-Methyl-2-Pentanone | 8.580 | 43 | 9378 | 3.430 | ug/l | | 97 |
| 52) Toluene | 8.720 | 92 | 2684 | 0.672 | ug/l | | 96 |
| 53) t-1,3-Dichloropropene | 8.988 | 75 | 1238 | 0.576 | ug/l | # | 79 |
| 54) cis-1,3-Dichloropropene | 8.379 | 75 | 1414 | 0.564 | ug/l | # | 87 |
| 55) 1,1,2-Trichloroethane | 9.153 | 97 | 1029 | 0.637 | ug/l | | 92 |
| 56) Ethyl methacrylate | 9.128 | 69 | 1260 | 0.504 | ug/l | # | 76 |
| 57) 1,3-Dichloropropane | 9.311 | 76 | 2036 | 0.711 | ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 8.244 | 63 | 3846 | 3.420 | ug/l | | 94 |
| 59) 2-Hexanone | 9.439 | 43 | 6424 | 3.096 | ug/l | | 88 |
| 60) Dibromochloromethane | 9.525 | 129 | 1023 | 0.582 | ug/l | | 93 |
| 61) 1,2-Dibromoethane | 9.610 | 107 | 1077 | 0.650 | ug/l | | 98 |
| 64) Tetrachloroethene | 9.275 | 164 | 972 | 0.679 | ug/l | | 95 |
| 65) Chlorobenzene | 10.079 | 112 | 3170 | 0.735 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 1035 | 0.720 | ug/l | # | 67 |
| 67) Ethyl Benzene | 10.195 | 91 | 5052 | 0.687 | ug/l | | 94 |
| 68) m/p-Xylenes | 10.299 | 106 | 3630 | 1.367 | ug/l | | 97 |
| 69) o-Xylene | 10.640 | 106 | 1799 | 0.672 | ug/l | | 94 |
| 70) Styrene | 10.659 | 104 | 2664 | 0.622 | ug/l | | 98 |
| 71) Bromoform | 10.799 | 173 | 657 | 0.608 | ug/l | # | 100 |
| 73) Isopropylbenzene | 10.963 | 105 | 4480 | 0.695 | ug/l | | 96 |
| 74) N-amyl acetate | 10.854 | 43 | 2028 | 0.631 | ug/l | # | 91 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 1835 | 0.800 | ug/l | | 94 |
| 76) 1,2,3-Trichloropropane | 11.244 | 75 | 1661m | 0.674 | ug/l | | |
| 77) Bromobenzene | 11.201 | 156 | 1095 | 0.734 | ug/l | | 96 |
| 78) n-propylbenzene | 11.305 | 91 | 5052 | 0.699 | ug/l | | 97 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 3765 | 0.773 | ug/l | | 94 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 3590 | 0.671 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 11.457 | 91 | 3815 | 0.713 | ug/l | | 97 |
| 83) tert-Butylbenzene | 11.713 | 119 | 3951 | 0.751 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 11.756 | 105 | 3725 | 0.697 | ug/l | | 97 |
| 85) sec-Butylbenzene | 11.890 | 105 | 4385 | 0.672 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 3577 | 0.679 | ug/l | | 94 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 1914 | 0.689 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 2149m | 0.789 | ug/l | | |
| 89) n-Butylbenzene | 12.335 | 91 | 2889 | 0.631 | ug/l | | 92 |
| 90) Hexachloroethane | 12.536 | 117 | 604 | 0.616 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.341 | 146 | 2022 | 0.747 | ug/l | | 95 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75 | 306 | 0.586 | ug/l | | 83 |
| 93) 1,2,4-Trichlorobenzene | 13.591 | 180 | 1019 | 0.688 | ug/l | | 94 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 465 | 0.671 | ug/l | | 89 |
| 95) Naphthalene | 13.780 | 128 | 4138 | 0.767 | ug/l | | 97 |
| 96) 1,2,3-Trichlorobenzene | 13.963 | 180 | 1113 | 0.716 | ug/l | | 96 |

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

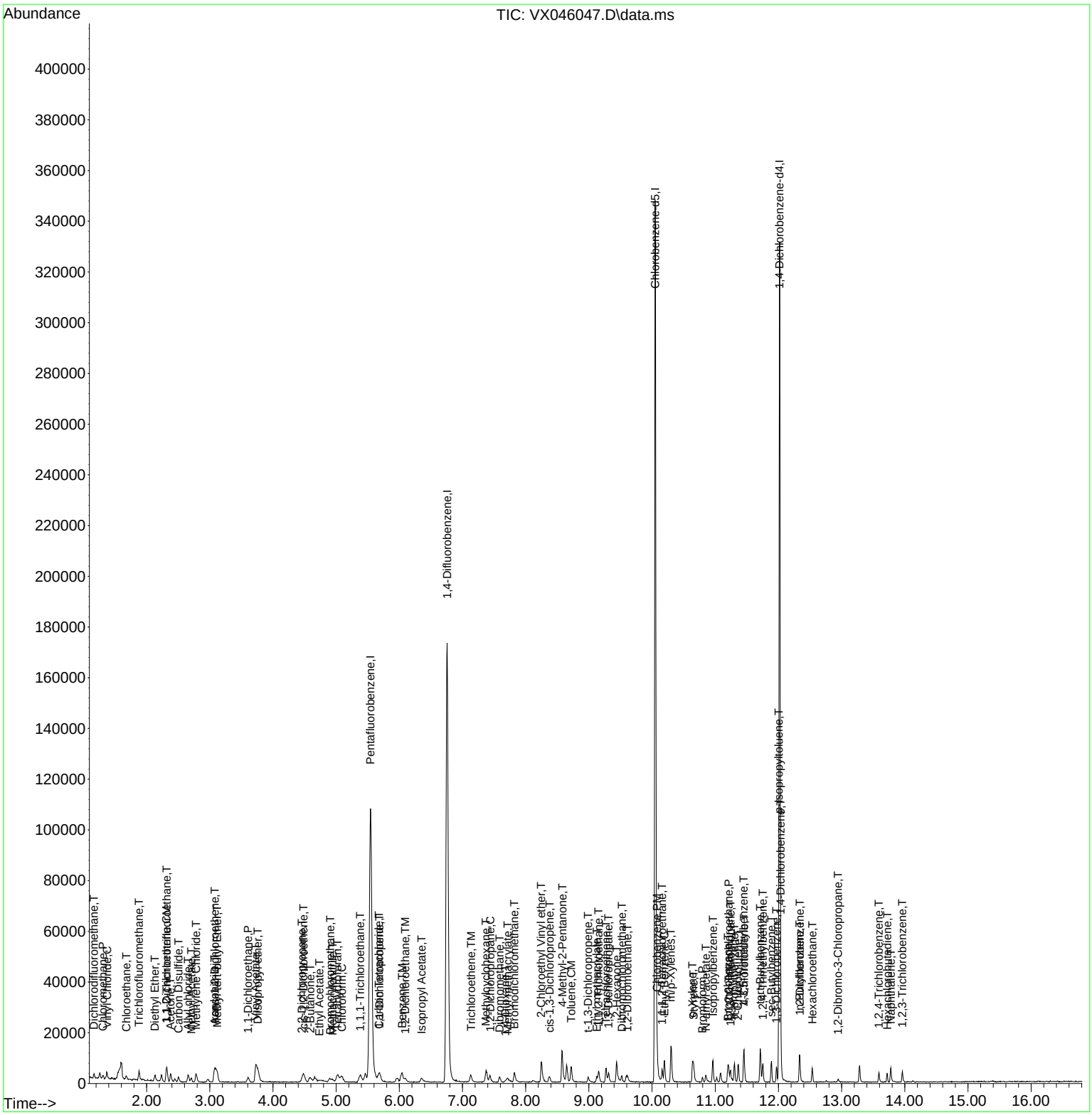
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046047.D
Acq On : 05 May 2025 16:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

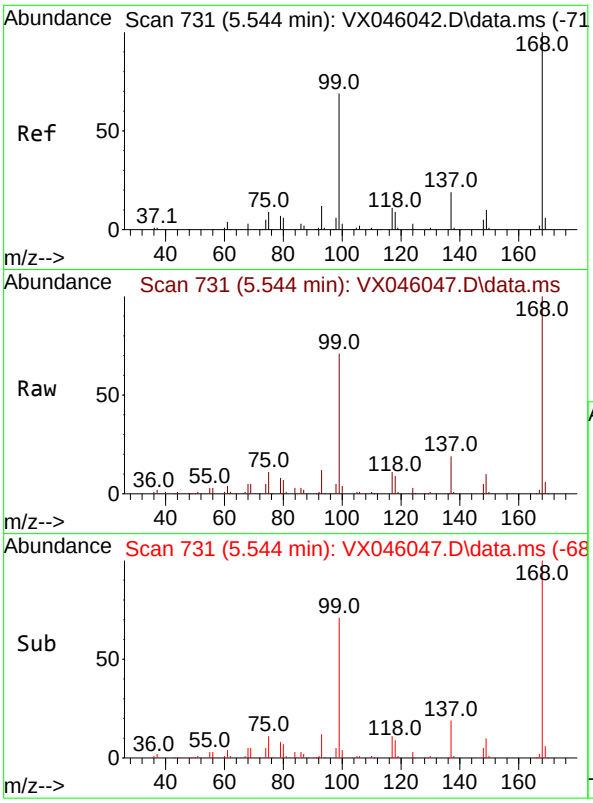
Quant Time: May 06 06:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

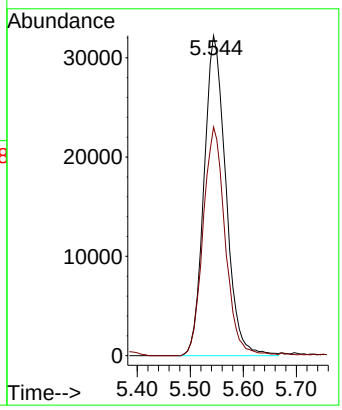





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:168 Resp: 9204

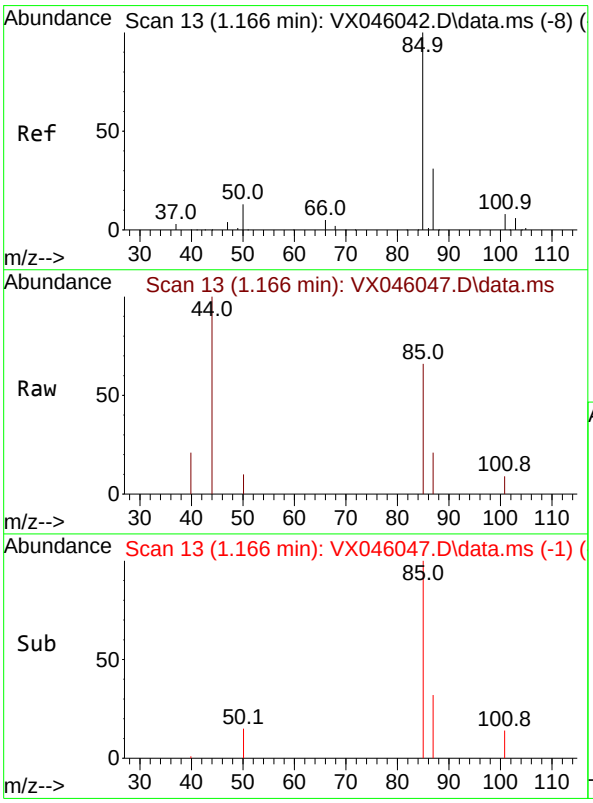
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 71.5 | 54.9 | 82.3 |




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

**Manual Integrations**
**APPROVED**

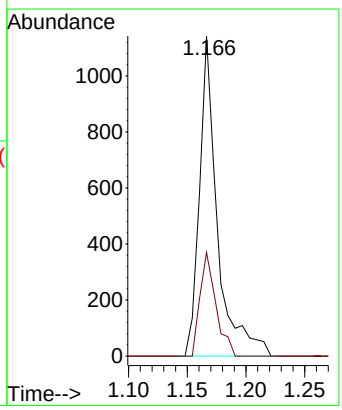
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

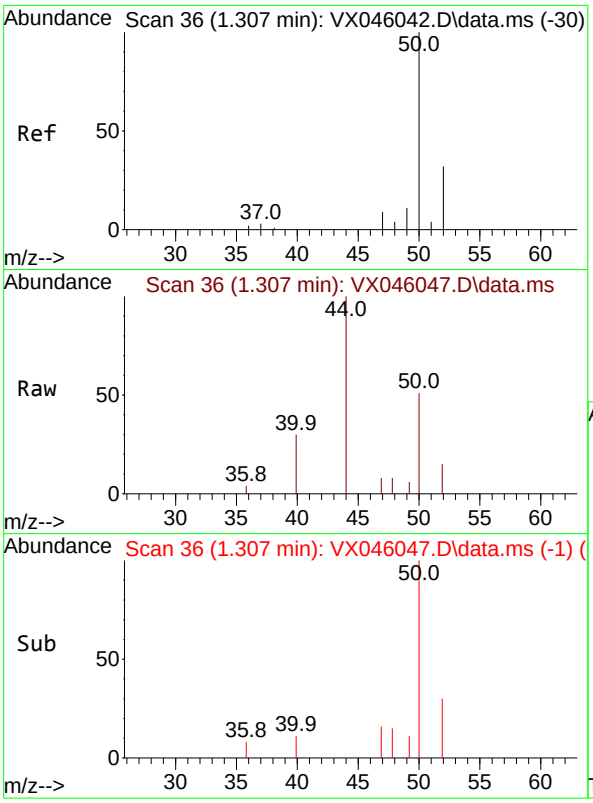



#2
Dichlorodifluoromethane
Concen: 0.596 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 85 Resp: 1211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.4 | 15.7 | 47.1 |

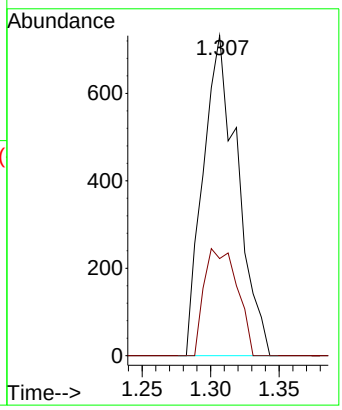





#3
Chloromethane
Concen: 0.639 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 50 Resp: 127

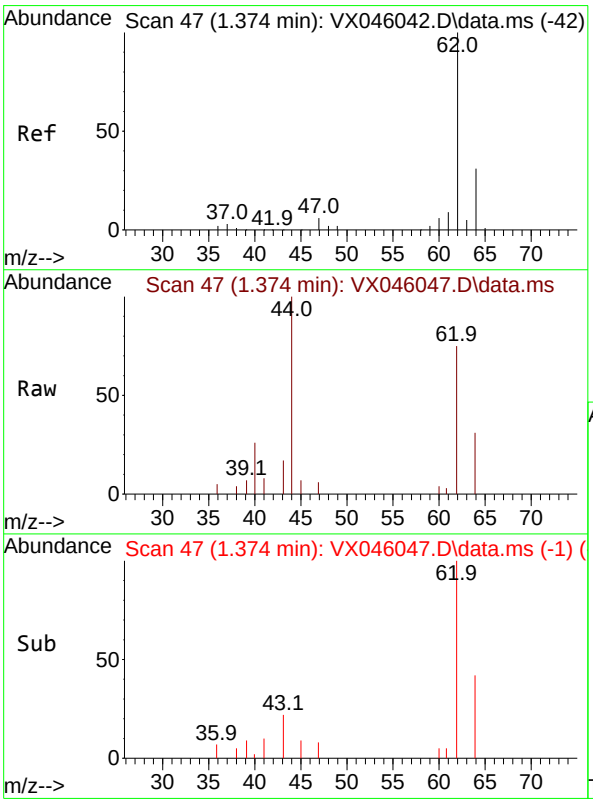
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.3 | 25.4 | 38.2 |




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

**Manual Integrations**
**APPROVED**

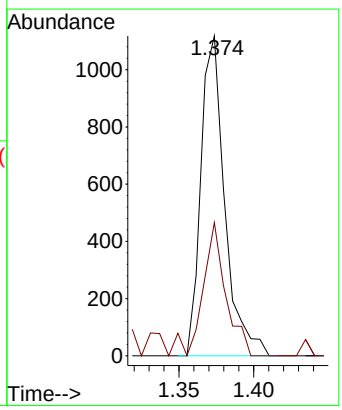
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

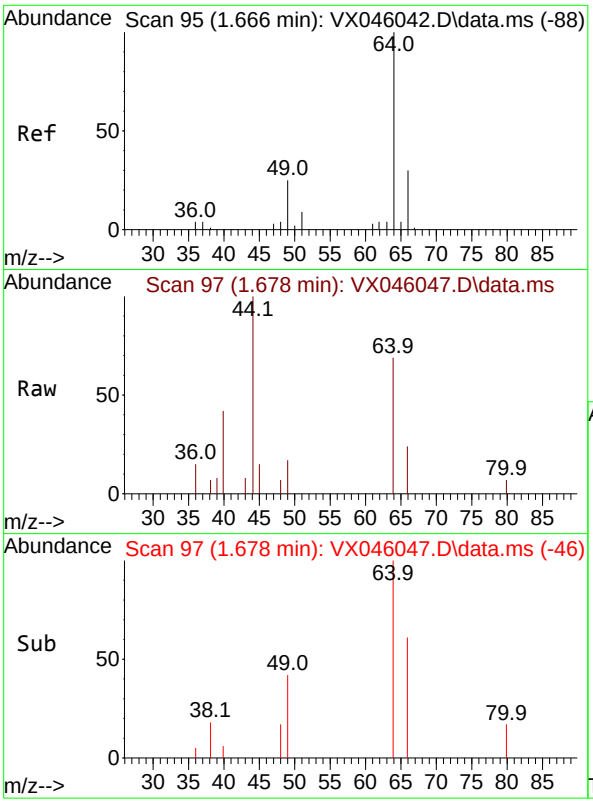



#4
Vinyl Chloride
Concen: 0.707 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 62 Resp: 1239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 41.7 | 25.2 | 37.8# |

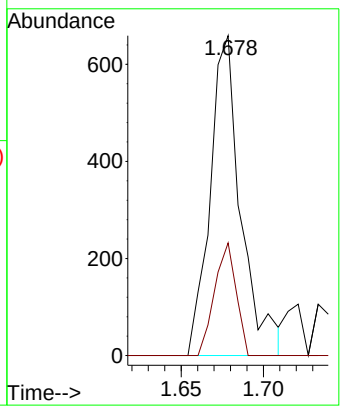





#6
Chloroethane
Concen: 0.951 ug/l
RT: 1.678 min Scan# 9
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 64 Resp: 85

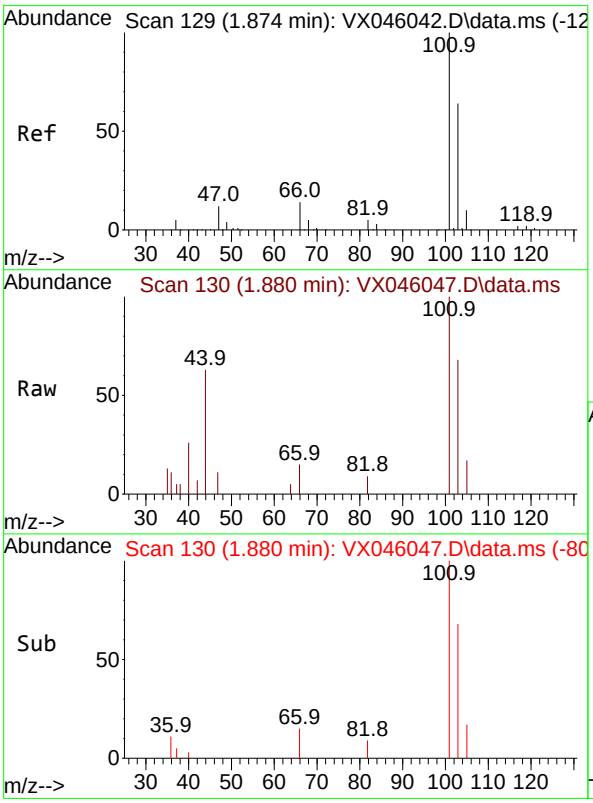
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 35.2 | 24.3 | 36.5 |




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

**Manual Integrations APPROVED**

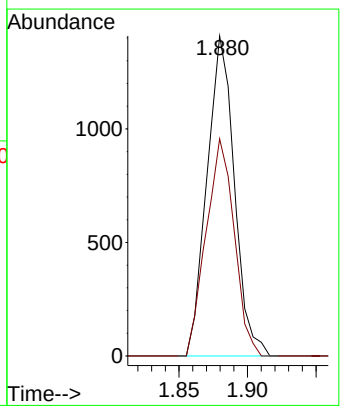
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

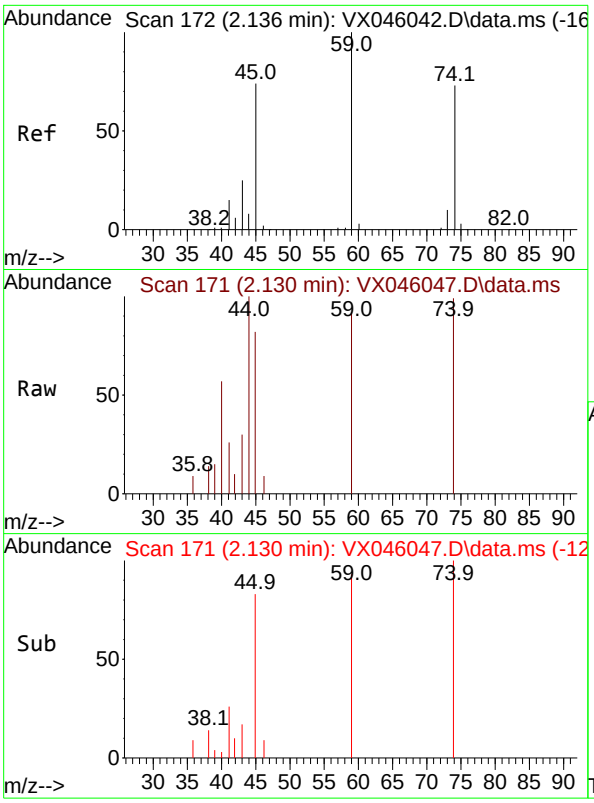



#7
Trichlorofluoromethane
Concen: 0.734 ug/l
RT: 1.880 min Scan# 130
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:101 Resp: 1959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 67.8 | 51.0 | 76.4 |

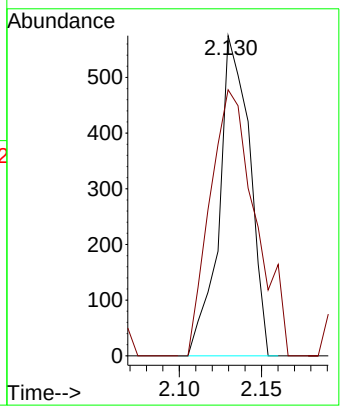





#8
Diethyl Ether
Concen: 0.845 ug/l
RT: 2.130 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 74 Resp: 74

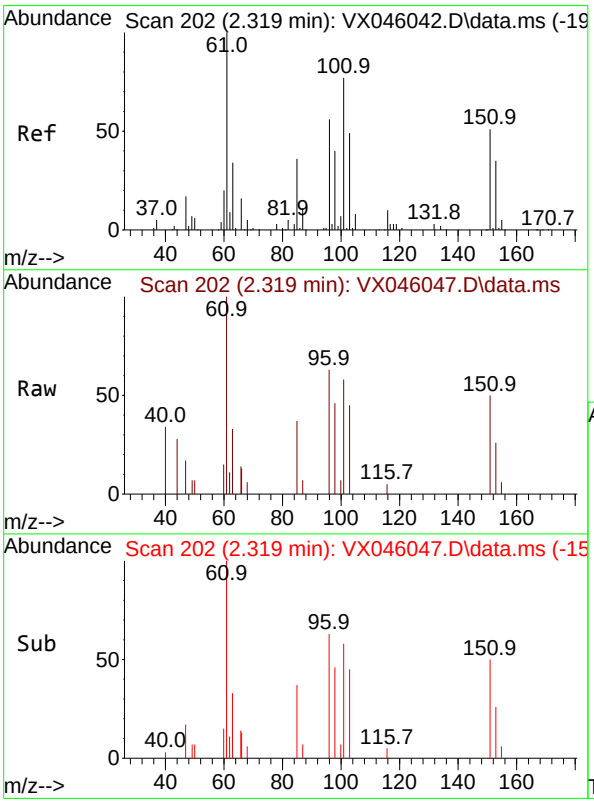
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 123.6 | 54.9 | 164.8 |




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

**Manual Integrations APPROVED**

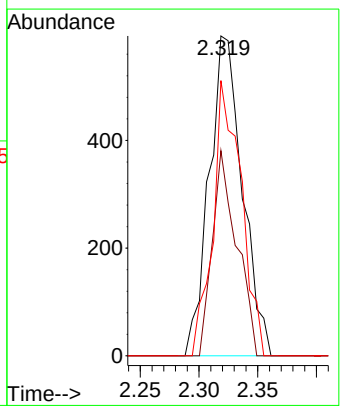
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

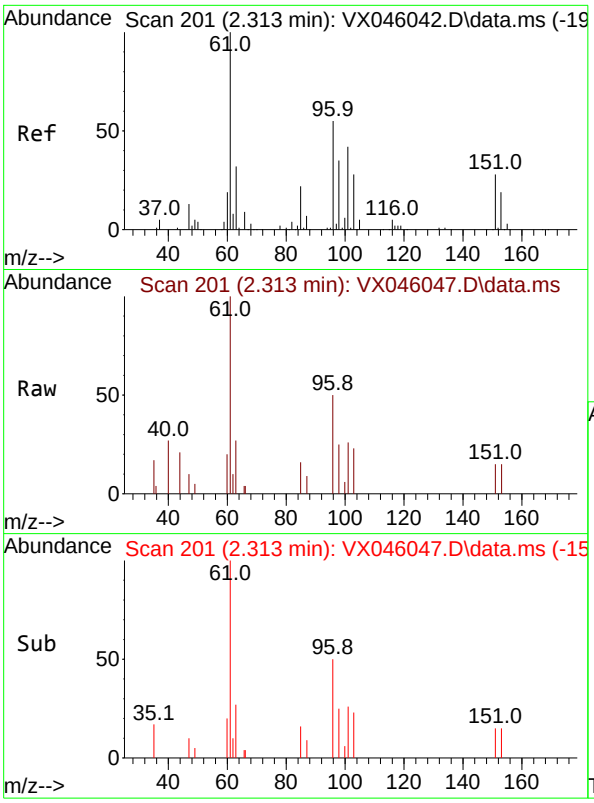



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.731 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:101 Resp: 1166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.3 | 38.6 | 58.0 |
| 151 | 73.1 | 55.2 | 82.8 |

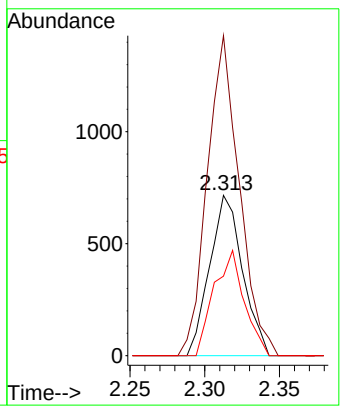





#12
1,1-Dichloroethene
Concen: 0.704 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 96 Resp: 109

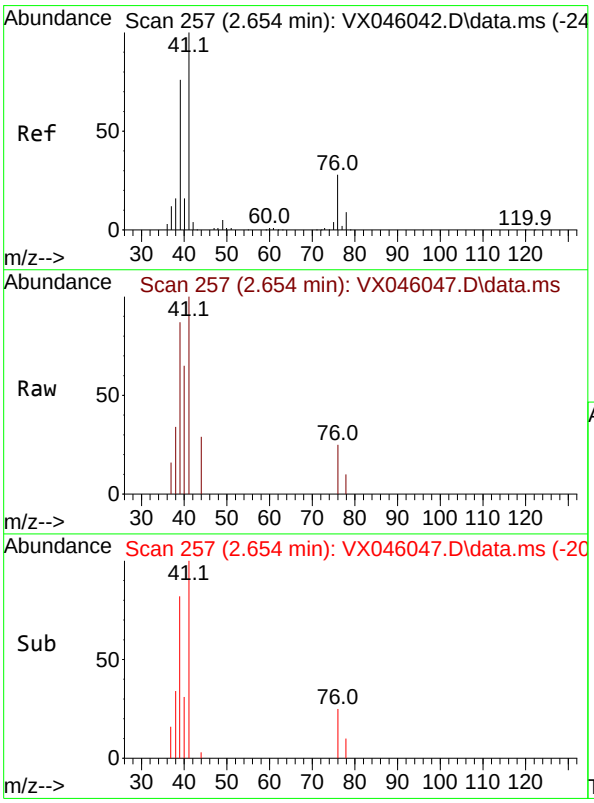
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 199.6 | 146.2 | 219.2 |
| 98 | 49.6 | 51.0 | 76.6 |




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

**Manual Integrations APPROVED**

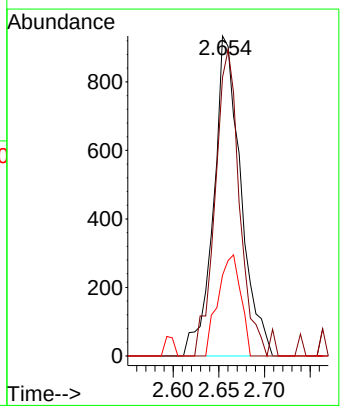
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

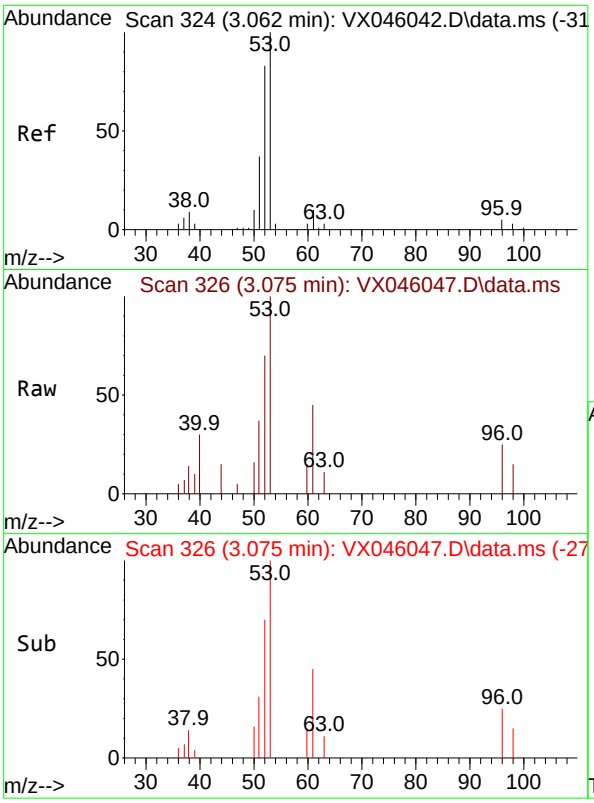



#14
Allyl chloride
Concen: 0.660 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 41 Resp: 1936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 85.5 | 60.6 | 90.8 |
| 76 | 26.4 | 24.9 | 37.3 |

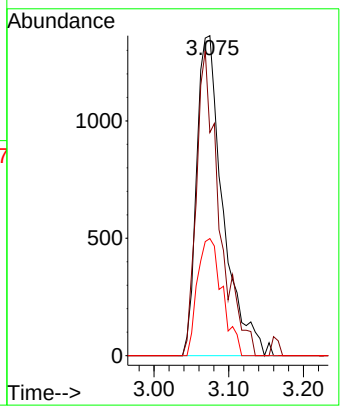





#15
Acrylonitrile
Concen: 3.424 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 53 Resp: 334

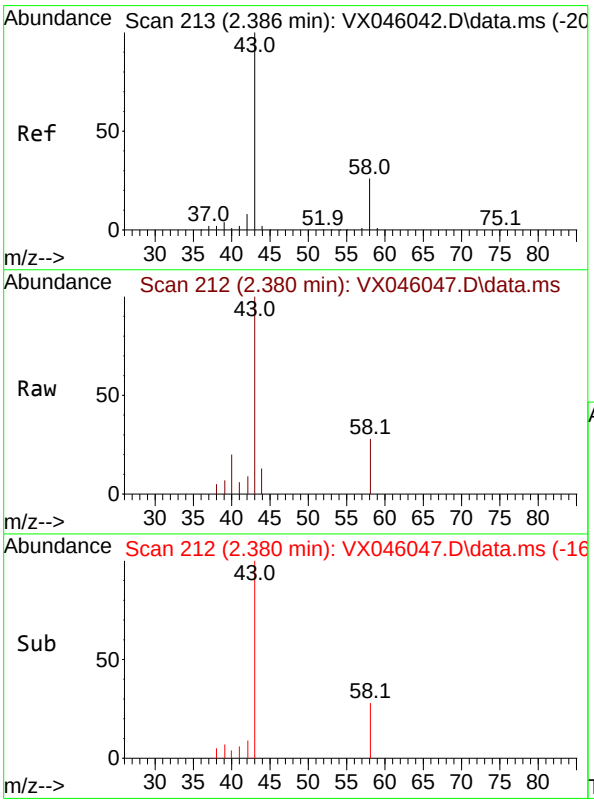
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.9 | 65.3 | 97.9 |
| 51 | 34.4 | 29.8 | 44.8 |




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

**Manual Integrations APPROVED**

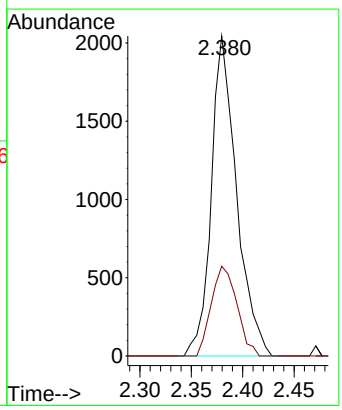
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

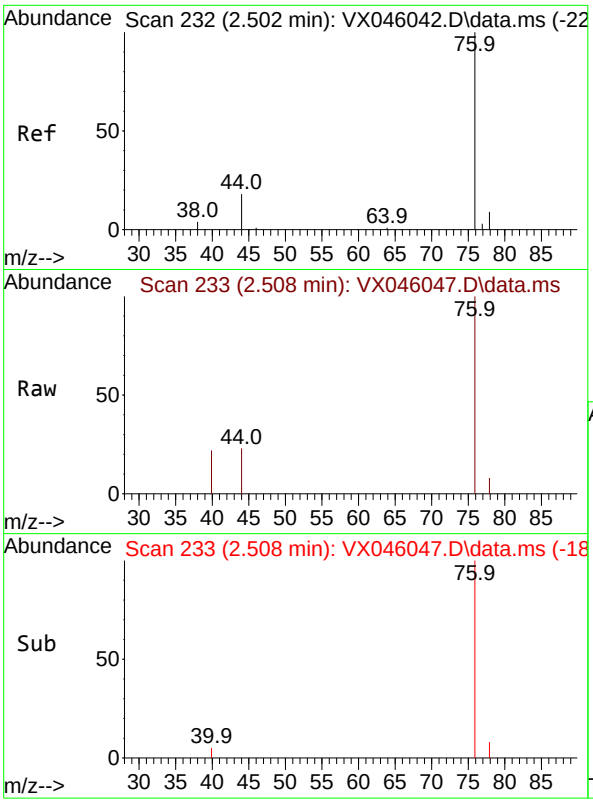



#16
Acetone
Concen: 3.736 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 3500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.1 | 21.2 | 31.8 |

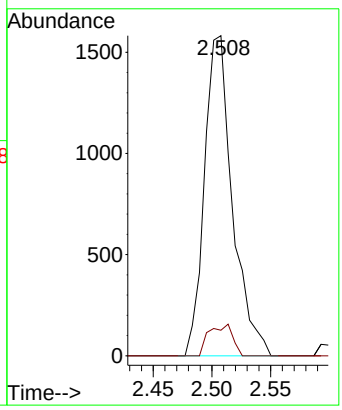





#17
Carbon Disulfide
Concen: 0.728 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 76 Resp: 261

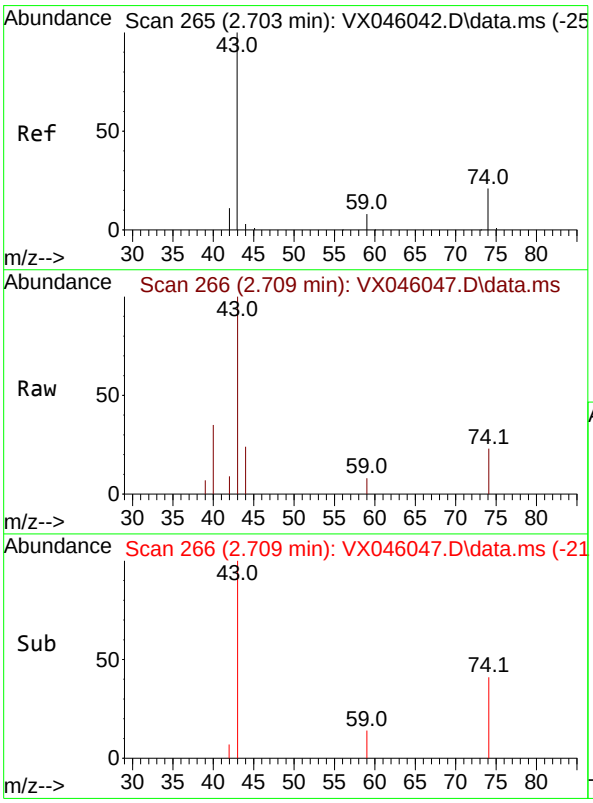
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.0 | 7.0 | 10.4 |




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

**Manual Integrations**
**APPROVED**

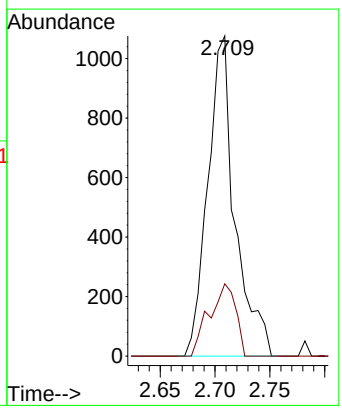
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

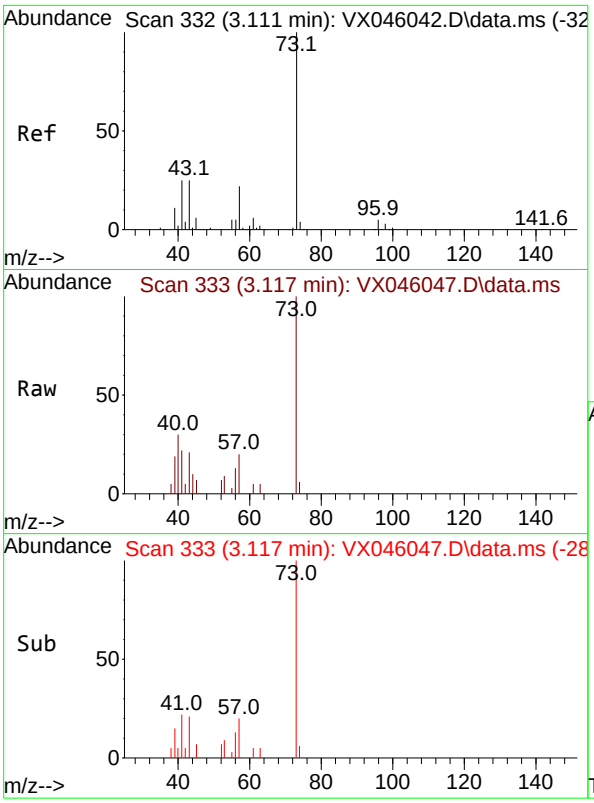



#18
Methyl Acetate
Concen: 0.828 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 1852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 22.0 | 16.7 | 25.1 |






#19
Methyl tert-butyl Ether
Concen: 0.662 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

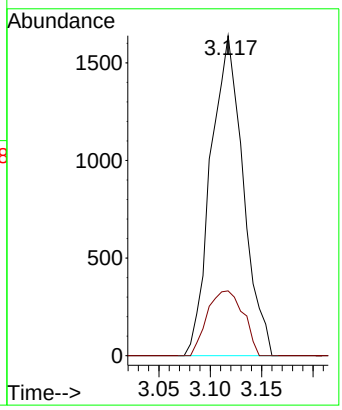
Tgt Ion: 73 Resp: 358

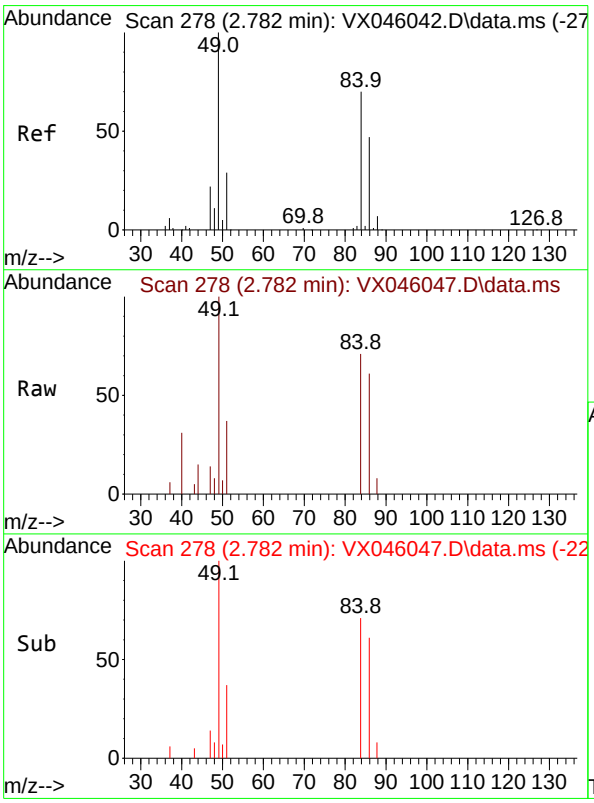
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.3 | 17.7 | 26.5 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

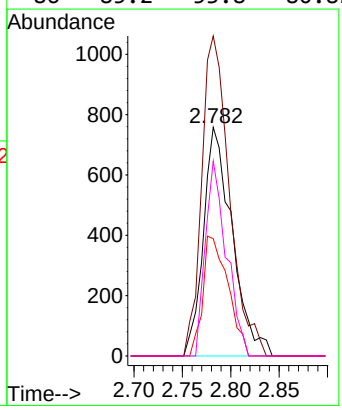


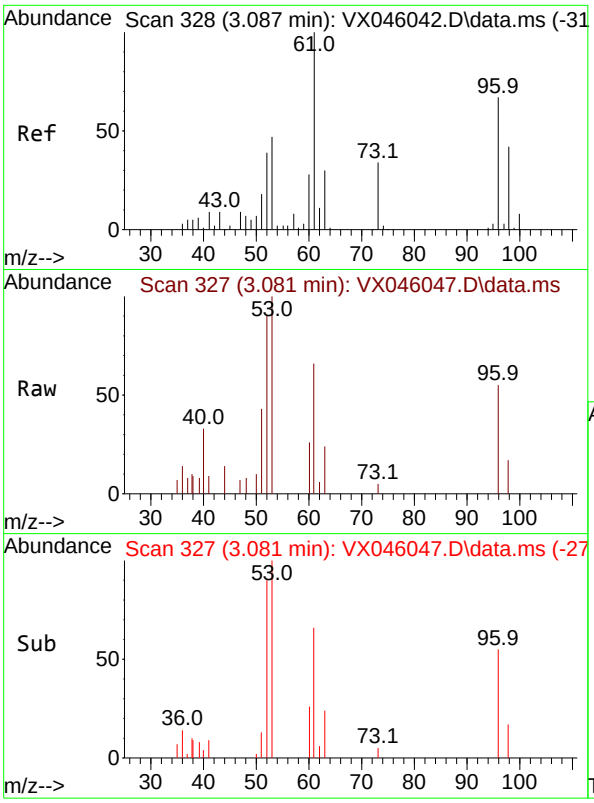




#20
Methylene Chloride
Concen: 0.828 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 84 Resp: 1571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 140.0 | 113.9 | 170.9 |
| 51 | 51.3 | 33.5 | 50.3# |
| 86 | 85.2 | 53.8 | 80.8# |

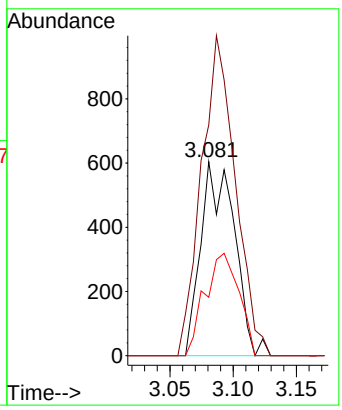





#21
trans-1,2-Dichloroethene
Concen: 0.701 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 96 Resp: 111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 119.0 | 119.5 | 179.3# |
| 98 | 30.1 | 50.0 | 75.0# |




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

**Manual Integrations**
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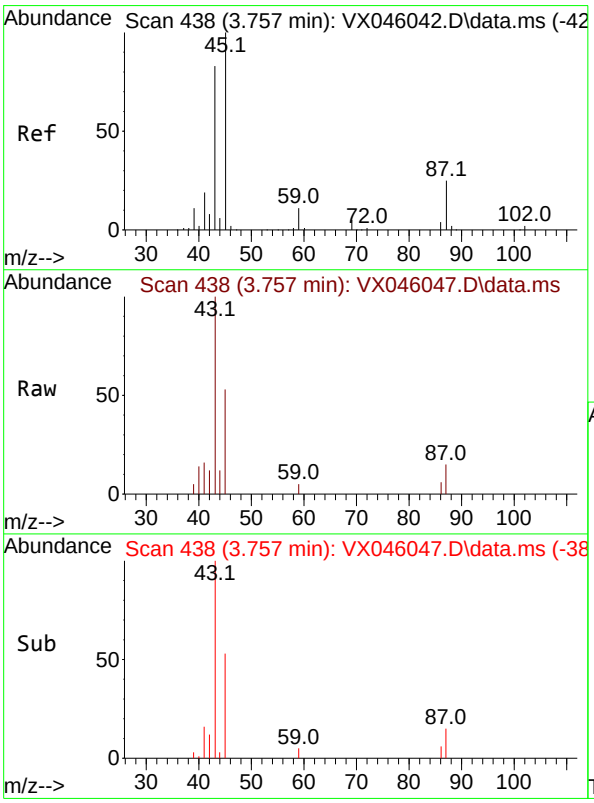
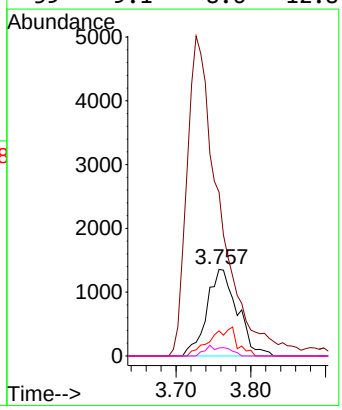
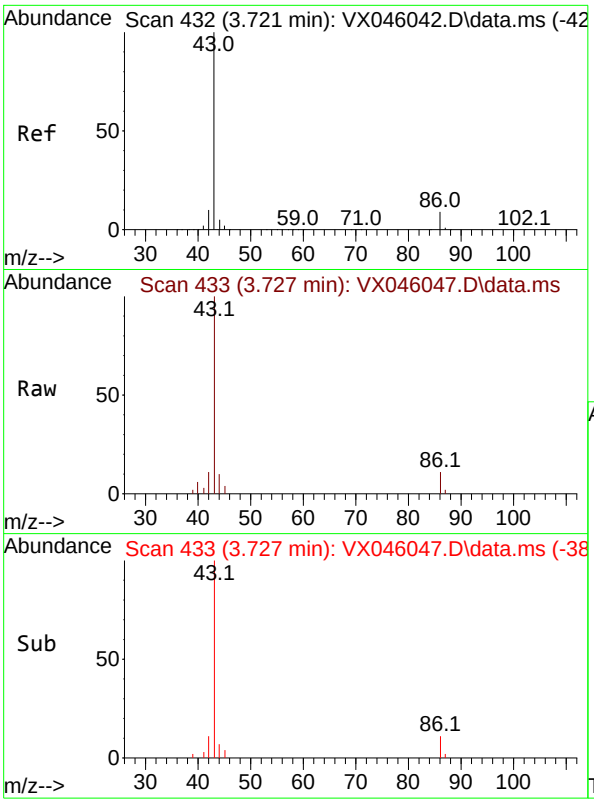



#22
Diisopropyl ether
Concen: 0.703 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 45 Resp: 3857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 176.2 | 66.6 | 100.0# |
| 87 | 28.9 | 19.8 | 29.6 |
| 59 | 9.1 | 8.6 | 12.8 |






#23
Vinyl Acetate
Concen: 3.154 ug/l
RT: 3.727 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 1528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.8 | 7.5 | 11.3 |

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

**Manual Integrations APPROVED**

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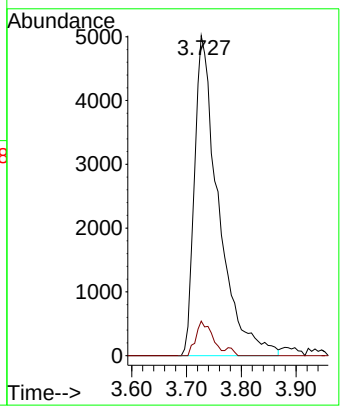
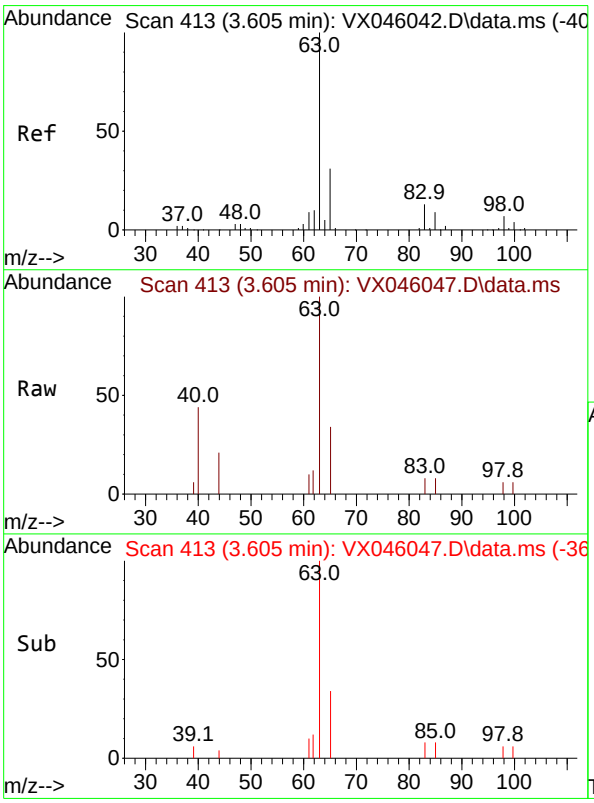
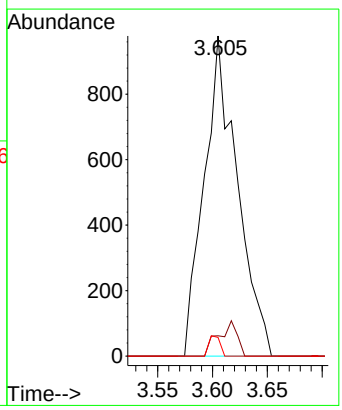


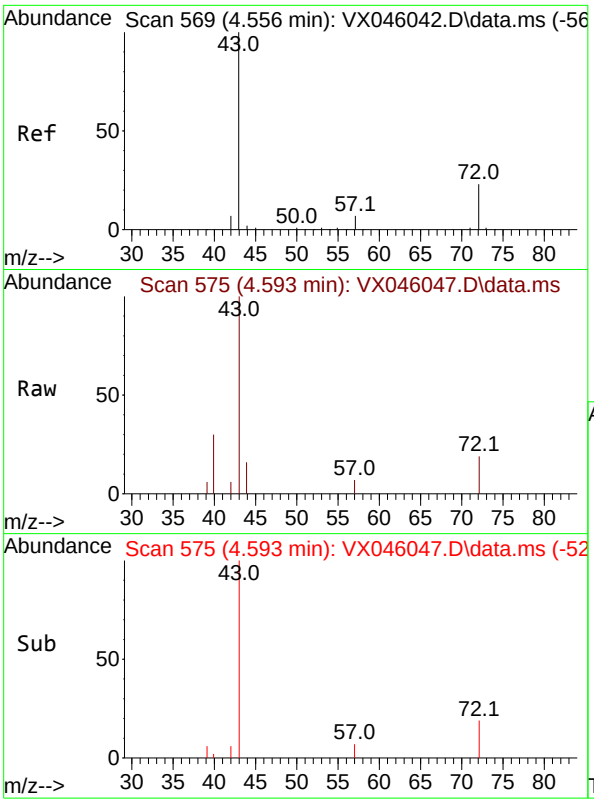




#24
1,1-Dichloroethane
Concen: 0.637 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 63 Resp: 2054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.3 | 3.6 | 10.8 |
| 100 | 5.8 | 2.1 | 6.3 |






#25
2-Butanone
Concen: 3.371 ug/l
RT: 4.593 min Scan# 5
Delta R.T. 0.037 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 19.2 | 18.4 | 27.6 |

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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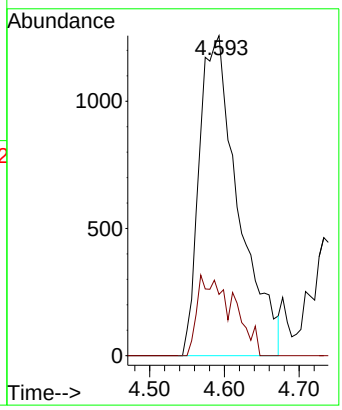
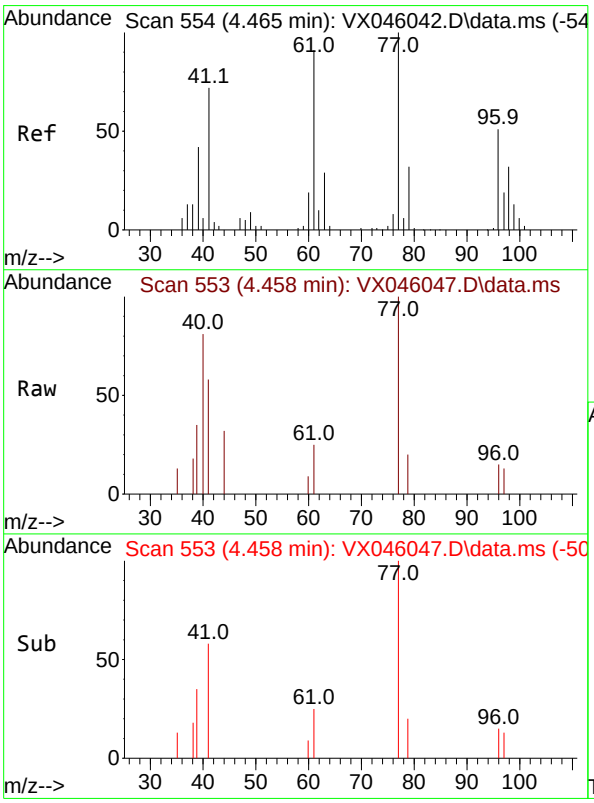
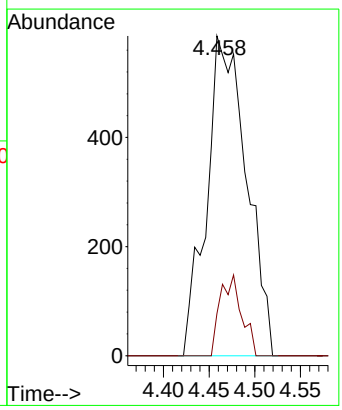


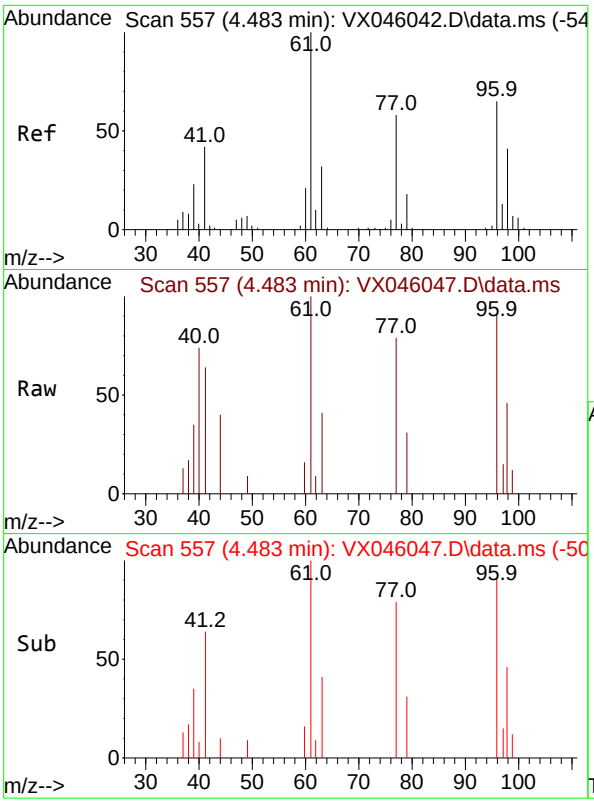




#26
2,2-Dichloropropane
Concen: 0.728 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 77 Resp: 1777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 13.7 | 10.5 | 31.5 |

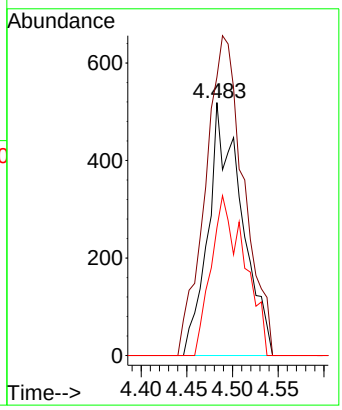





#27
cis-1,2-Dichloroethene
Concen: 0.693 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 96 Resp: 132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 145.5 | 0.0 | 322.8 |
| 98 | 63.1 | 0.0 | 129.0 |




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

**Manual Integrations APPROVED**

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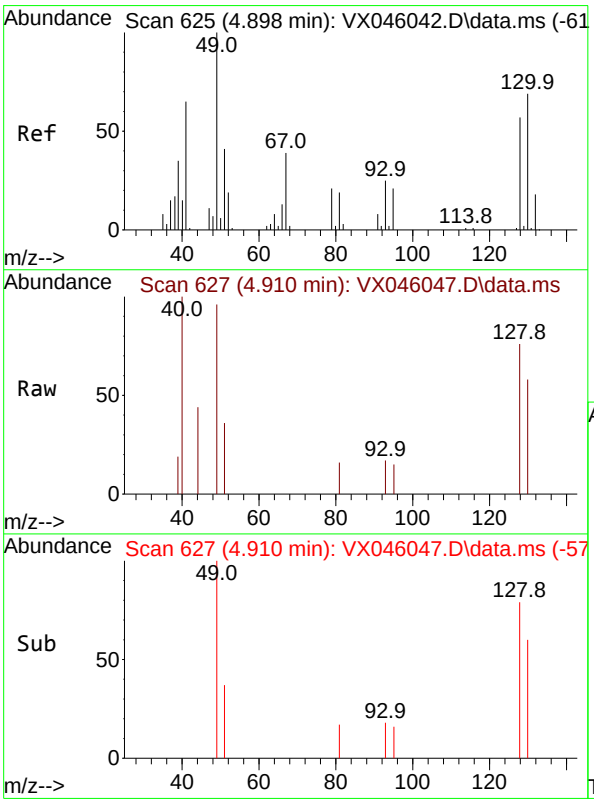
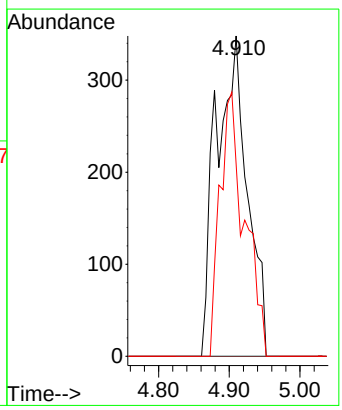
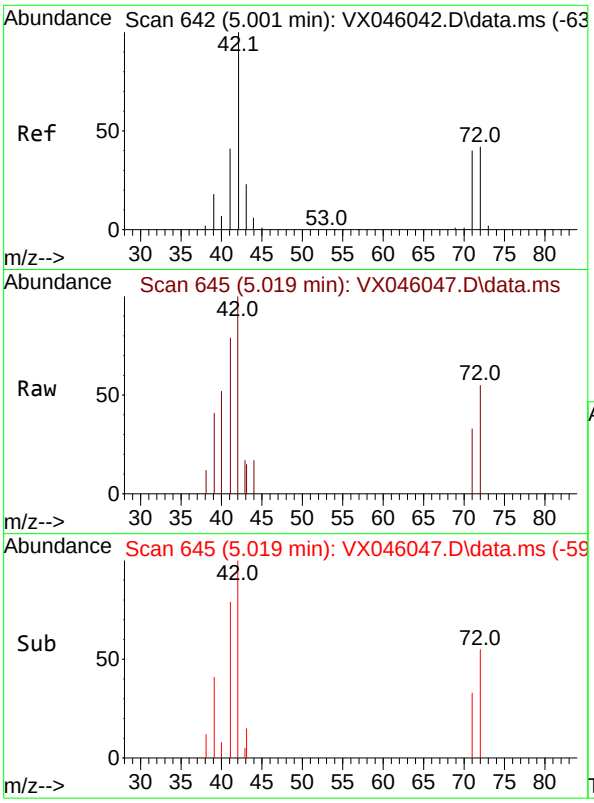



#28
Bromochloromethane
Concen: 0.619 ug/l m
RT: 4.910 min Scan# 627
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 49 Resp: 1061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.0 | 0.0 | 4.0 |
| 130 | 65.3 | 56.2 | 84.2 |

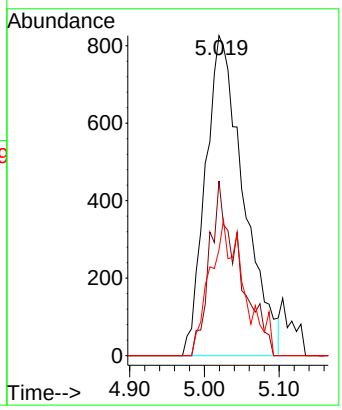





#29
Tetrahydrofuran
Concen: 3.338 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 42 Resp: 293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.9 | 33.7 | 50.5 |
| 71 | 37.7 | 31.4 | 47.2 |




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

**Manual Integrations APPROVED**

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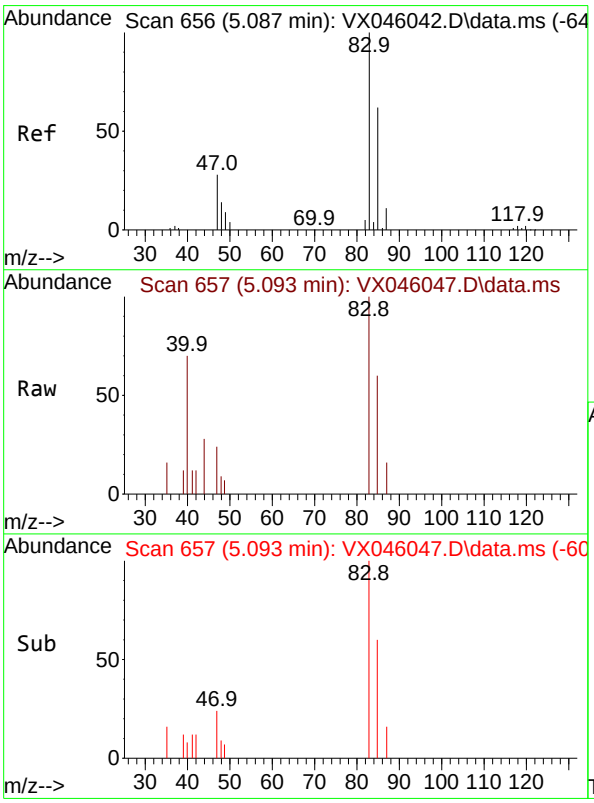
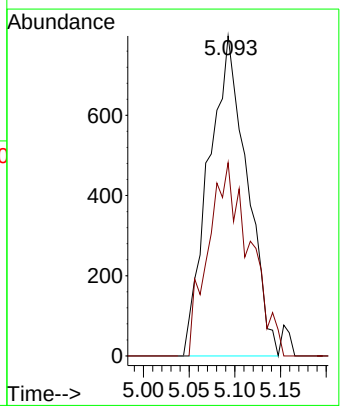
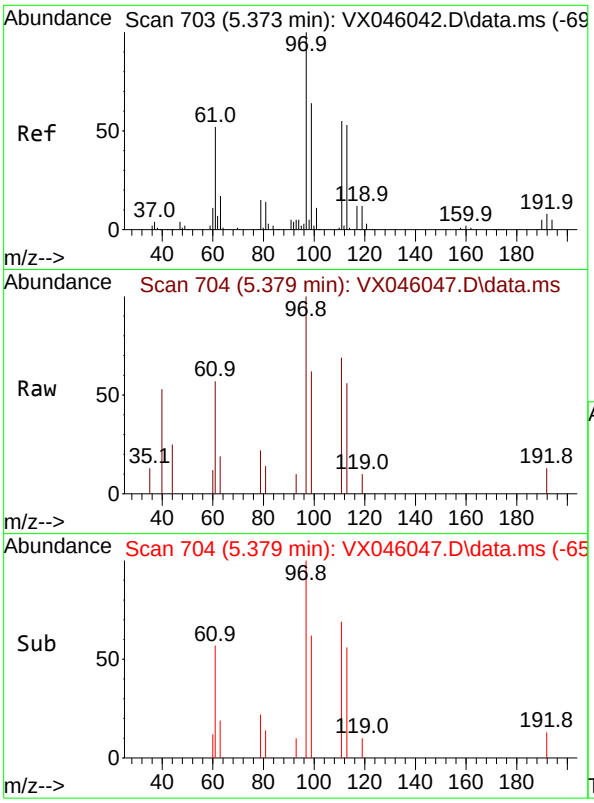



#30
Chloroform
Concen: 0.695 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 83 Resp: 2328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.4 | 49.3 | 73.9 |






#32
1,1,1-Trichloroethane
Concen: 0.647 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 97 Resp: 186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 0.0 | 51.8 | 77.6 |
| 61 | 55.0 | 40.1 | 60.1 |

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

**Manual Integrations**
**APPROVED**

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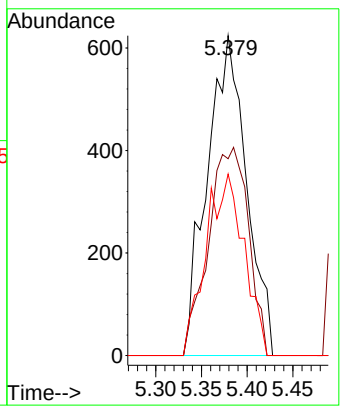
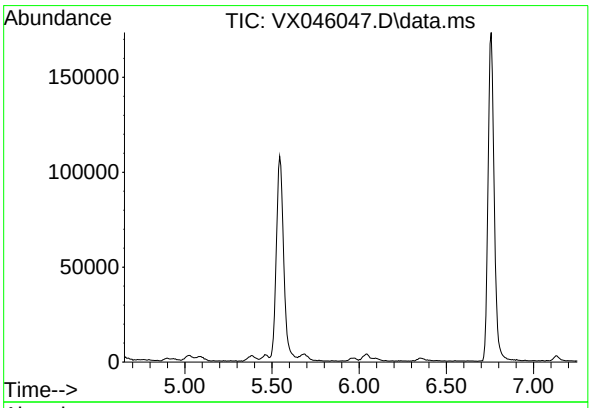


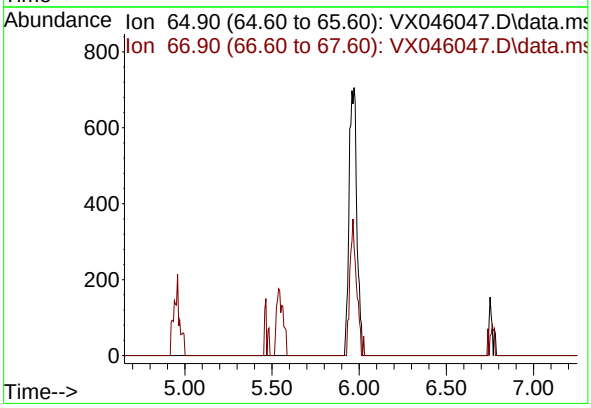



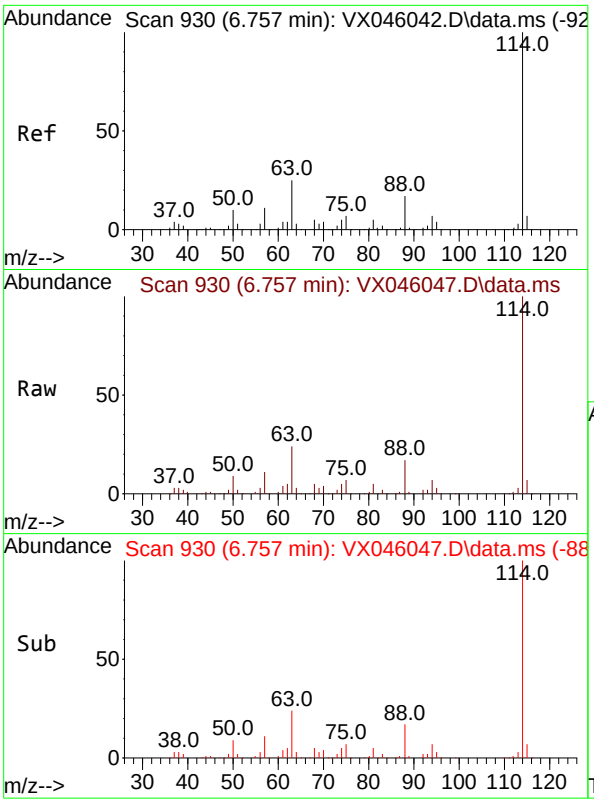

#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.95 min

Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 65

| Sig | Exp Ratio |
|---|---|
| 65 | 100 |
| 67 | 49.5 |






#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

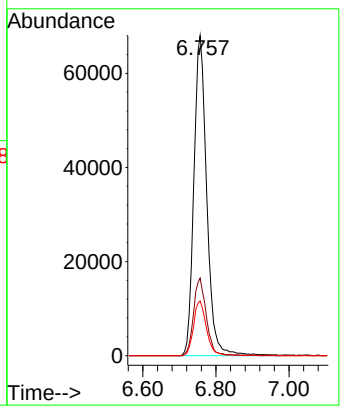
Tgt Ion:114 Resp: 16702

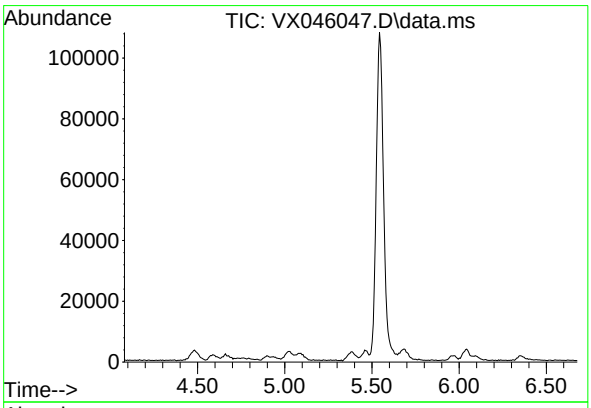
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 24.2 | 0.0 | 49.2 |
| 88 | 17.1 | 0.0 | 33.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



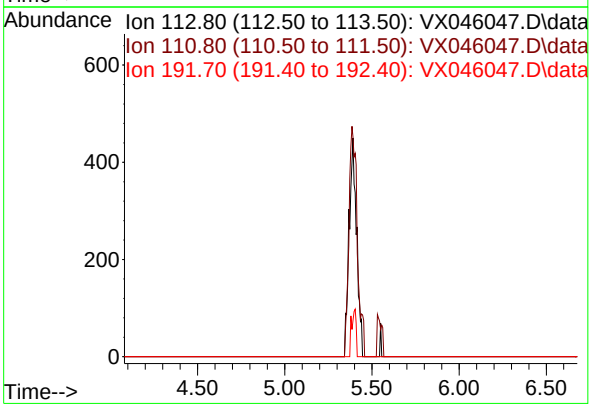



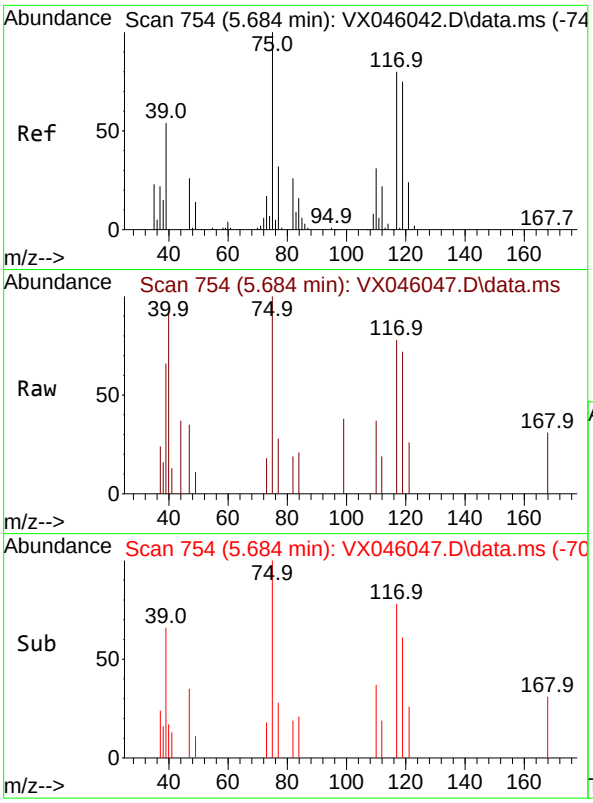

#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.38 min

Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 113

| Sig | Exp Ratio |
|---|---|
| 113 | 100 |
| 111 | 103.9 |
| 192 | 16.6 |

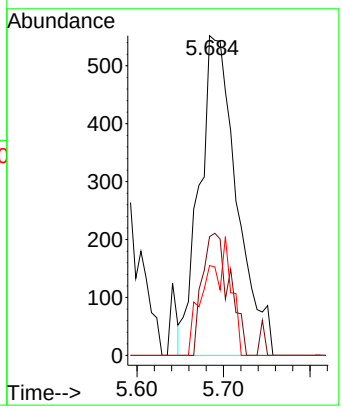





#36
1,1-Dichloropropene
Concen: 0.758 ug/l
RT: 5.684 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 75 Resp: 164

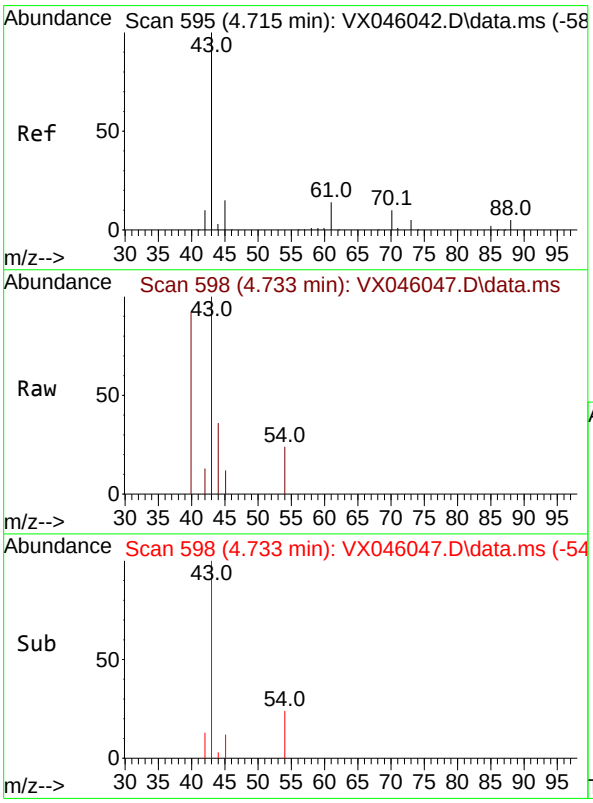
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 28.2 | 16.3 | 48.9 |
| 77 | 15.8 | 24.3 | 36.5# |




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

**Manual Integrations**
**APPROVED**

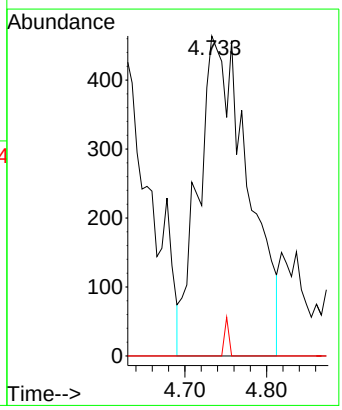
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

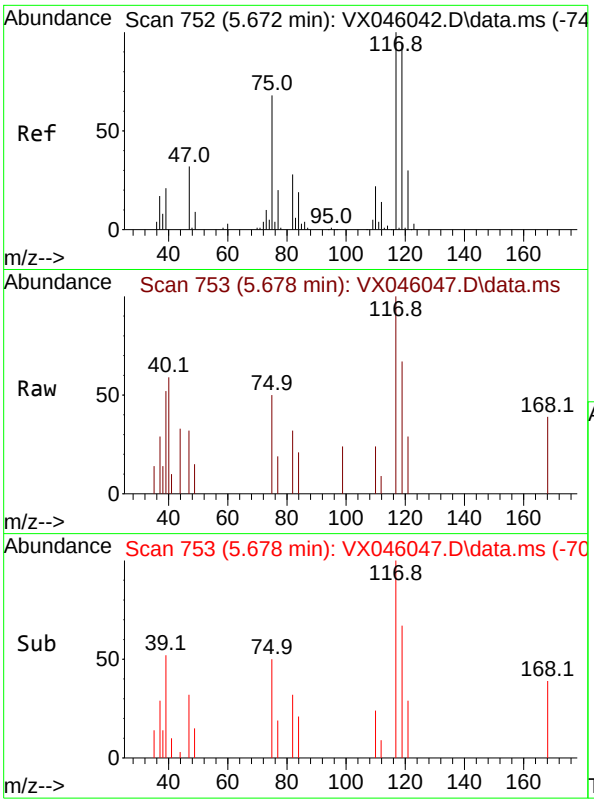



#37
Ethyl Acetate
Concen: 0.717 ug/l m
RT: 4.733 min Scan# 598
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 1956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 0.0 | 10.3 | 15.5# |
| 70 | 1.0 | 7.9 | 11.9# |

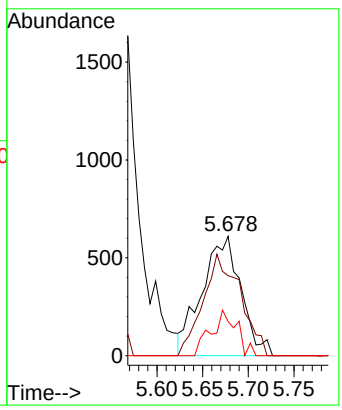





#38
Carbon Tetrachloride
Concen: 0.724 ug/l
RT: 5.678 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:117 Resp: 180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 67.0 | 75.2 | 112.8# |
| 121 | 28.5 | 24.2 | 36.4 |




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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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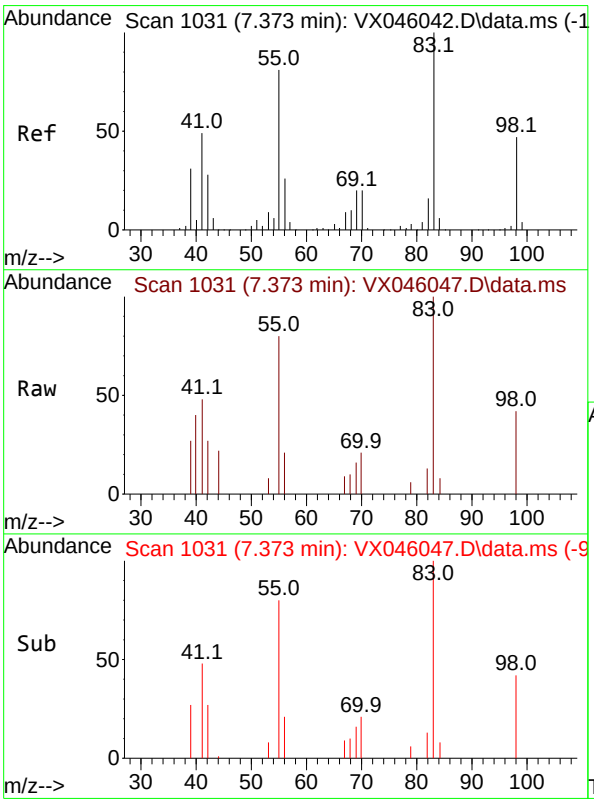
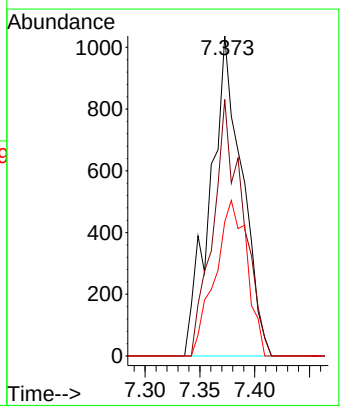
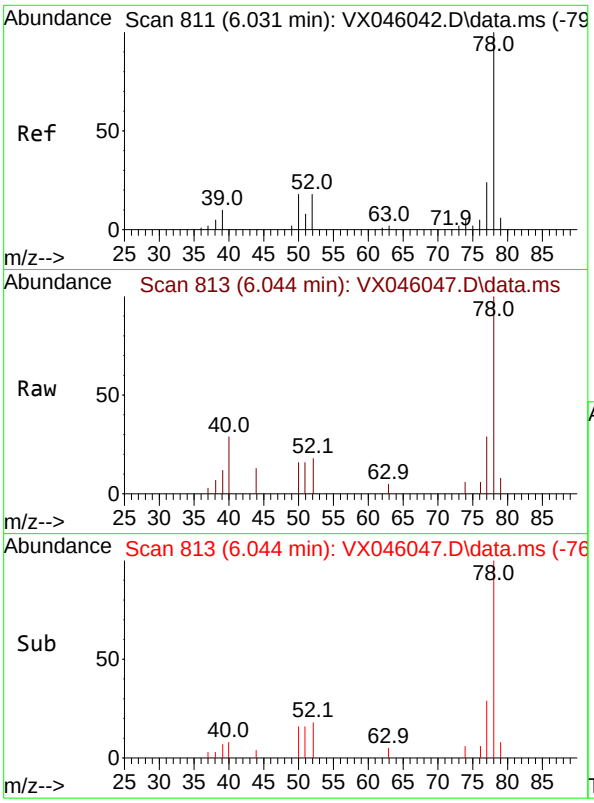



#39
Methylcyclohexane
Concen: 0.770 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 83 Resp: 2096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 80.1 | 64.7 | 97.1 |
| 98 | 41.9 | 37.4 | 56.2 |






#40
Benzene
Concen: 0.668 ug/l
RT: 6.044 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 78 Resp: 450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 29.1 | 19.0 | 28.4# |

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

**Manual Integrations APPROVED**

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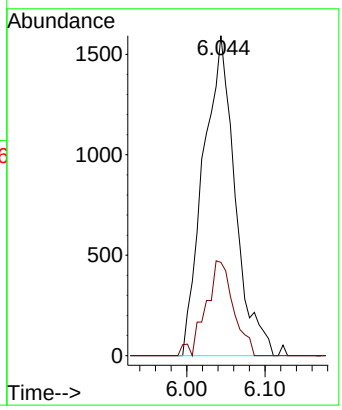
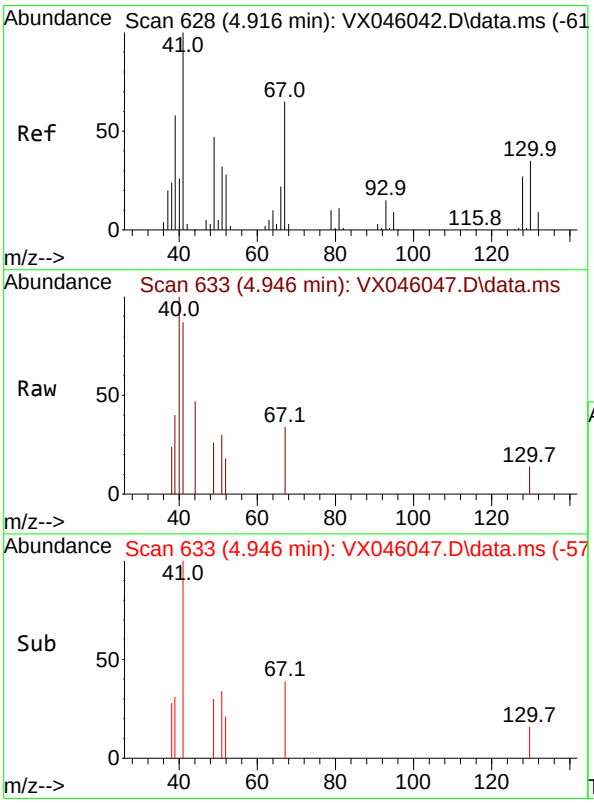
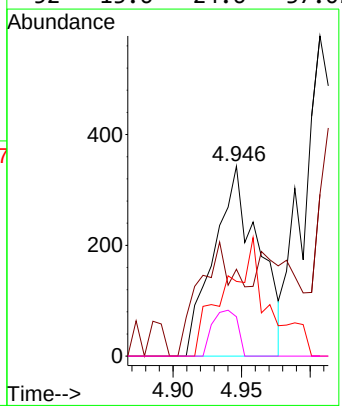


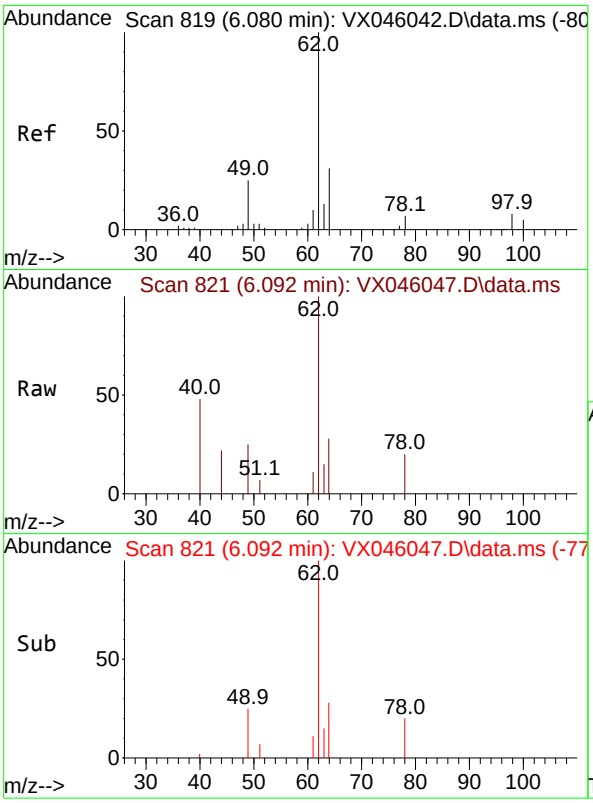




#41
Methacrylonitrile
Concen: 0.513 ug/l
RT: 4.946 min Scan# 633
Delta R.T. 0.030 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 41 Resp: 778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 51.7 | 47.2 | 70.8 |
| 67 | 0.0 | 50.7 | 76.1# |
| 52 | 13.6 | 24.6 | 37.0# |

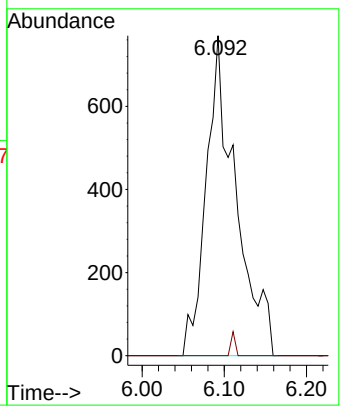





#42
1,2-Dichloroethane
Concen: 0.694 ug/l
RT: 6.092 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 62 Resp: 193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 1.1 | 0.0 | 15.2 |




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

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
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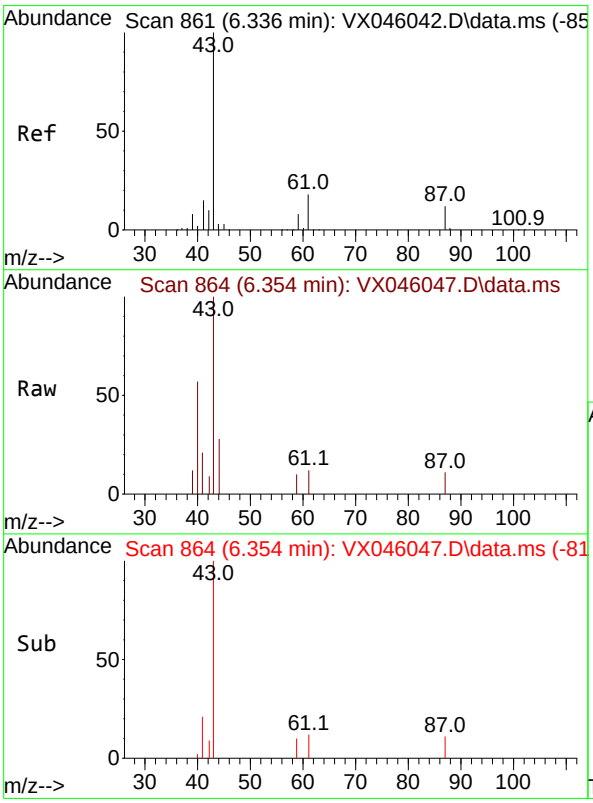
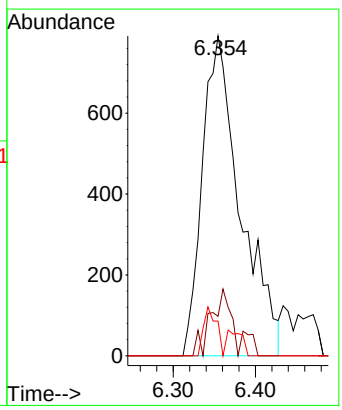
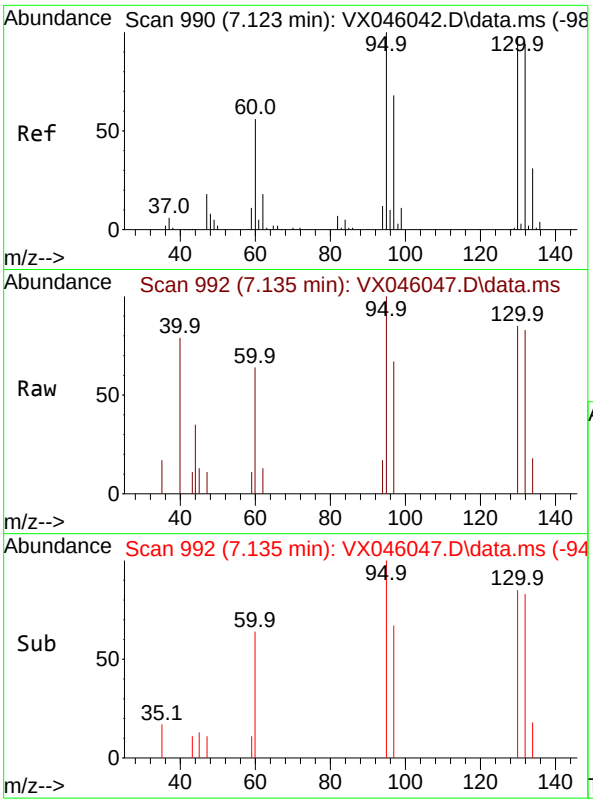



#43
Isopropyl Acetate
Concen: 0.612 ug/l
RT: 6.354 min Scan# 864
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 2553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 10.7 | 14.3 | 21.5# |
| 87 | 3.2 | 9.5 | 14.3# |

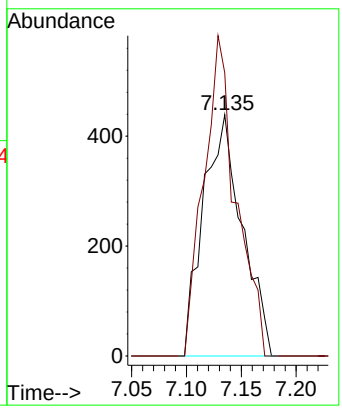





#44
Trichloroethene
Concen: 0.680 ug/l
RT: 7.135 min Scan# 9
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:130 Resp: 108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 117.3 | 0.0 | 204.2 |




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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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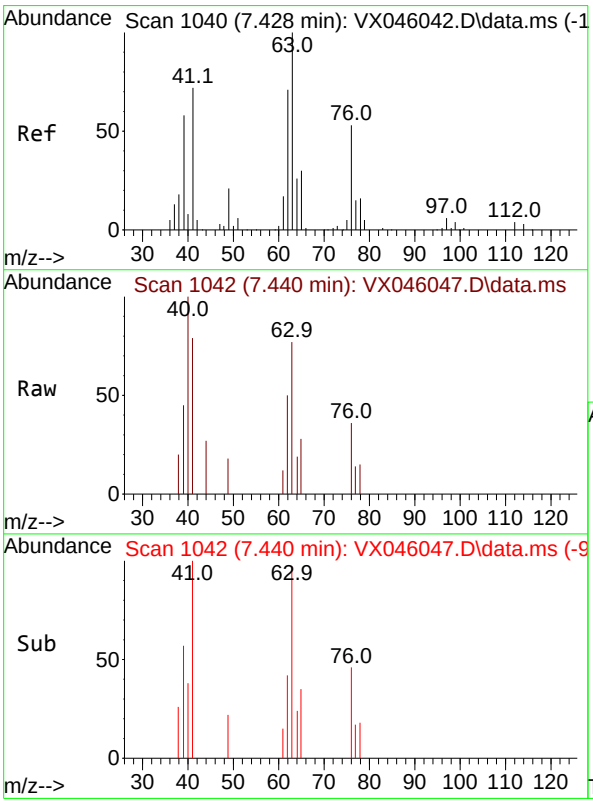
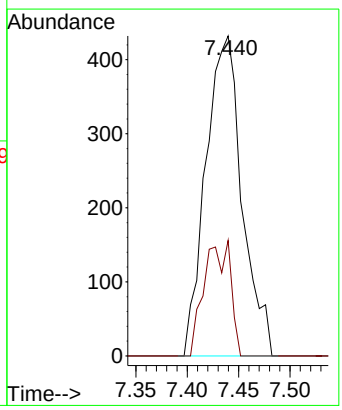
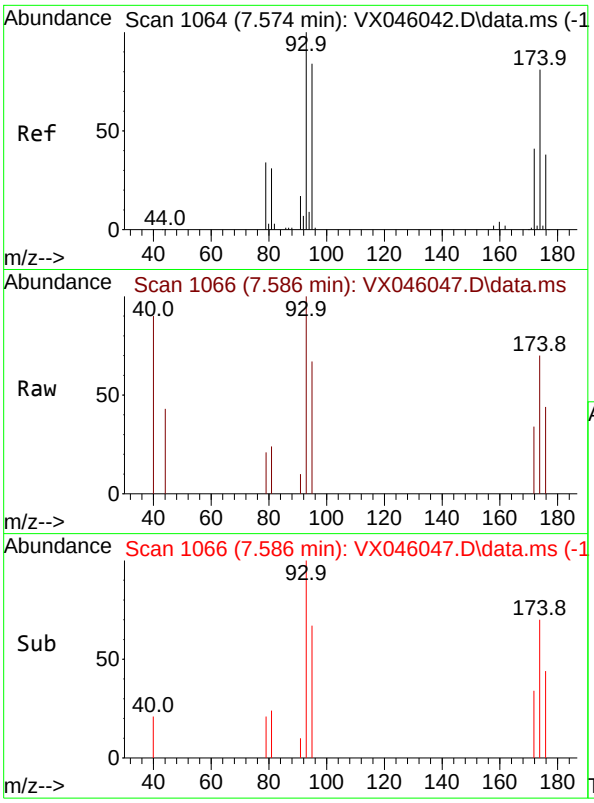



#45
1,2-Dichloropropane
Concen: 0.633 ug/l
RT: 7.440 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 63 Resp: 1059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 36.1 | 24.1 | 36.1 |

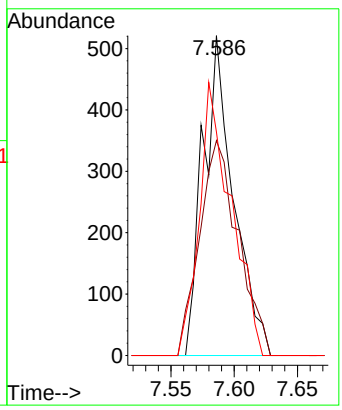





#46
Dibromomethane
Concen: 0.667 ug/l
RT: 7.586 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 93 Resp: 88

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 84.5 | 65.6 | 98.4 |
| 174 | 88.5 | 68.2 | 102.2 |




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

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
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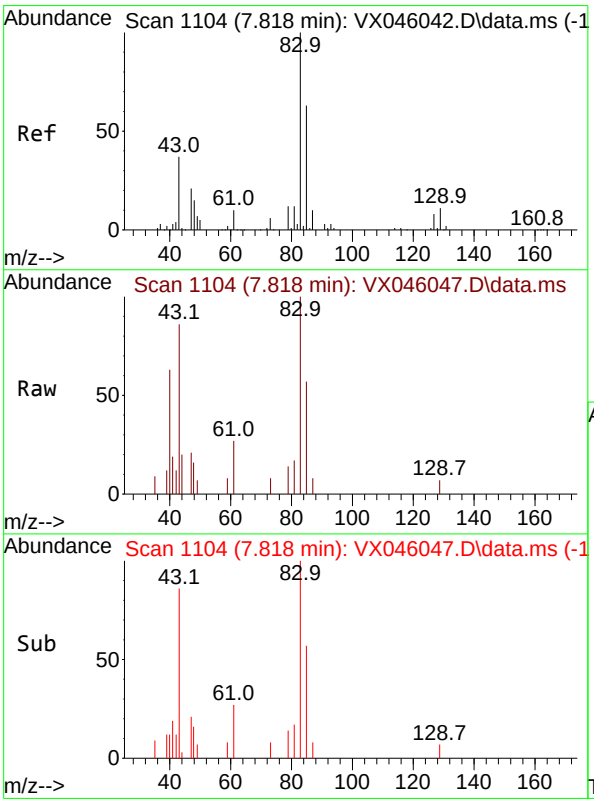
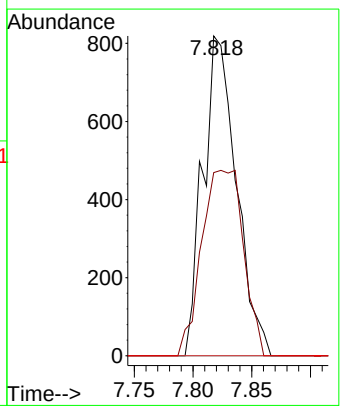
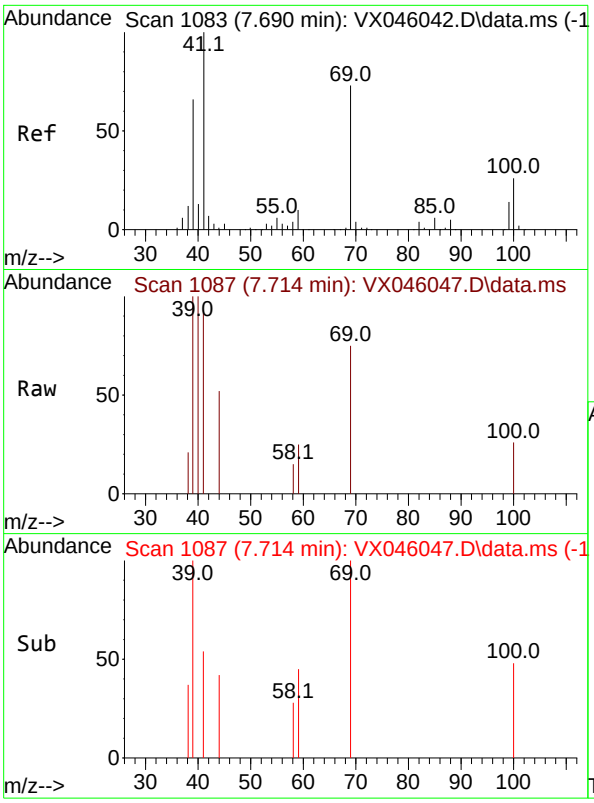



#47
Bromodichloromethane
Concen: 0.633 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 83 Resp: 1620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 57.3 | 50.5 | 75.7 |
| 127 | 0.0 | 6.5 | 9.7# |

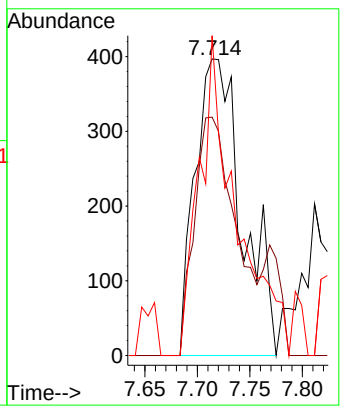





#48
Methyl methacrylate
Concen: 0.577 ug/l m
RT: 7.714 min Scan# 1
Delta R.T. 0.024 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 41 Resp: 123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 70.6 | 58.5 | 87.7 |
| 39 | 84.8 | 51.7 | 77.5# |




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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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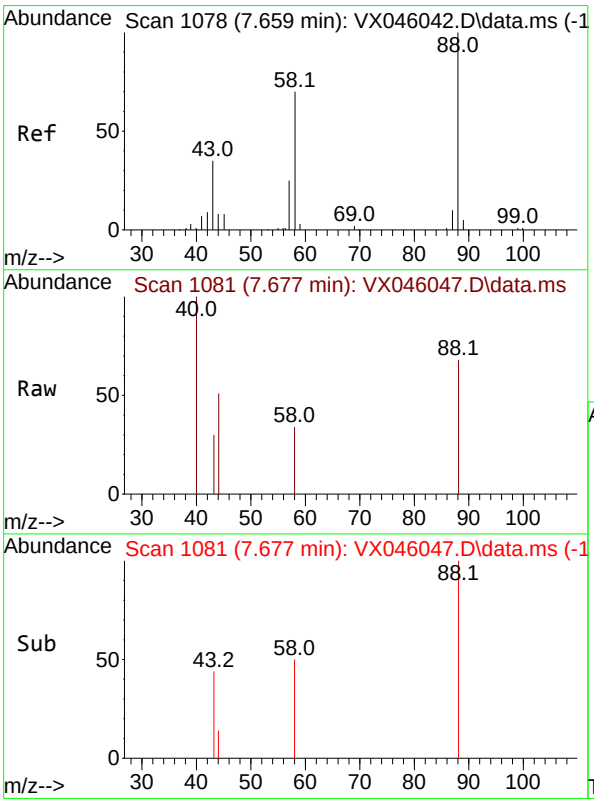
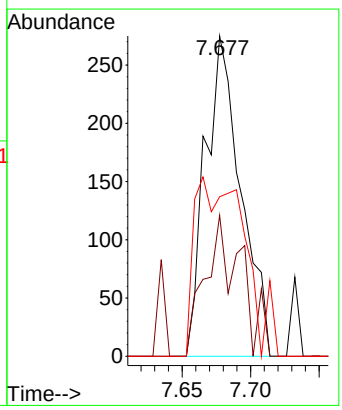
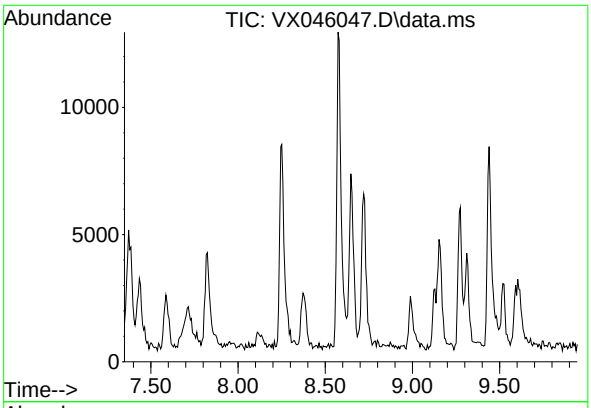



#49
1,4-Dioxane
Concen: 11.703 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 88 Resp: 498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 44.4 | 33.4 | 50.2 |
| 58 | 30.3 | 58.6 | 88.0# |






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

Lab File: VX046047.D
Acq: 05 May 2025 16:27

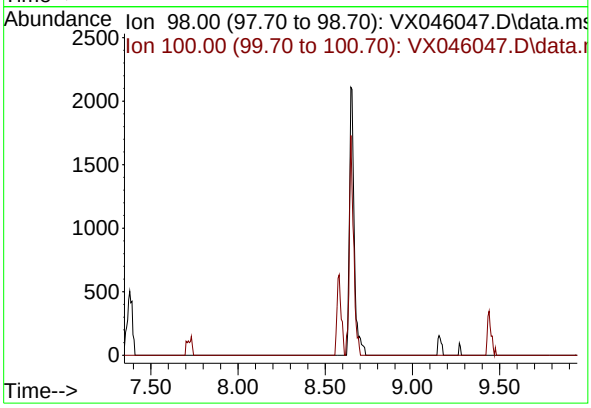
Tgt Ion: 98

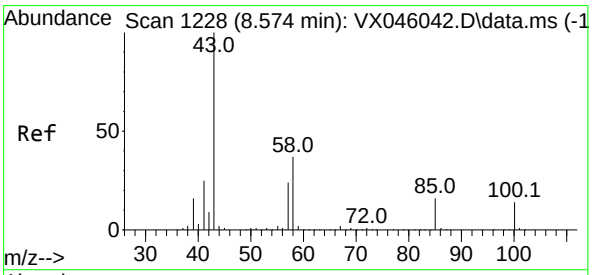
| Sig | Exp Ratio |
|---|---|
| 98 | 100 |
| 100 | 66.9 |

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

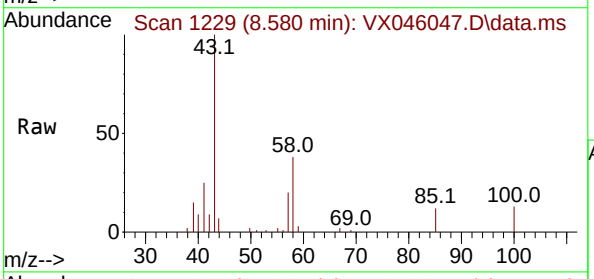


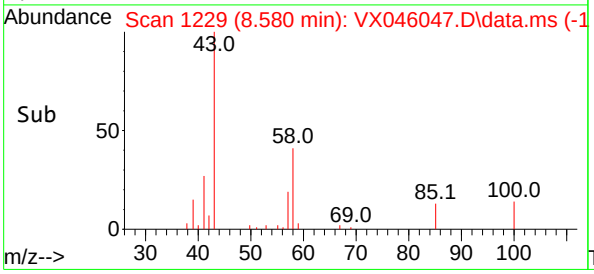



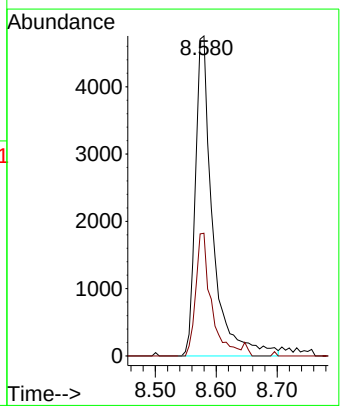

#51
4-Methyl-2-Pentanone
Concen: 3.430 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

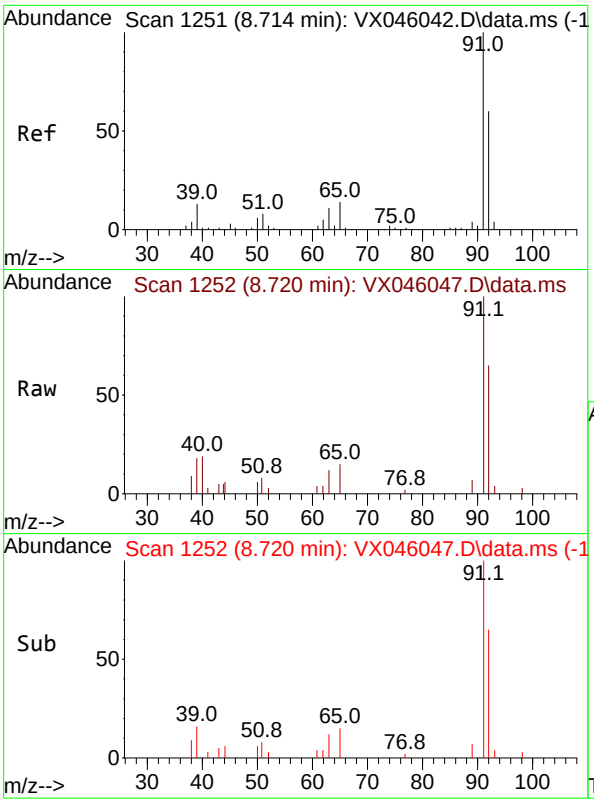
Tgt Ion: 43 Resp: 9378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.4 | 28.9 | 43.3 |



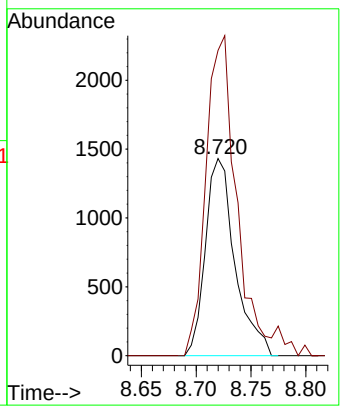






#52
Toluene
Concen: 0.672 ug/l
RT: 8.720 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 92 Resp: 268

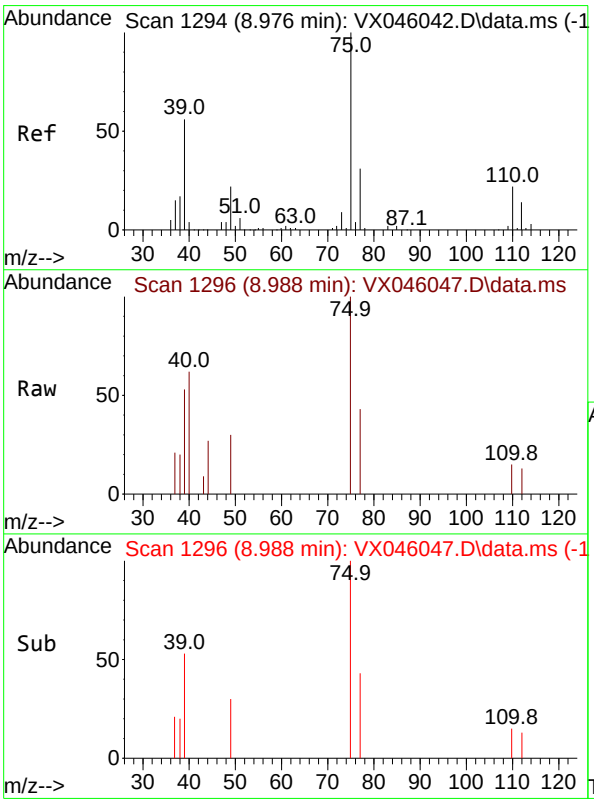
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 165.7 | 136.6 | 205.0 |




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

**Manual Integrations**
**APPROVED**

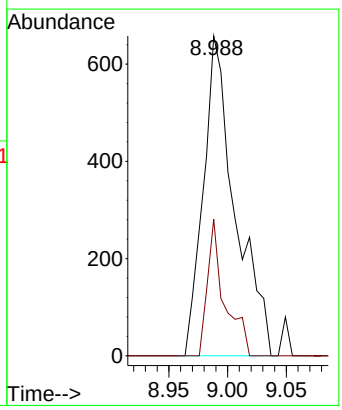
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

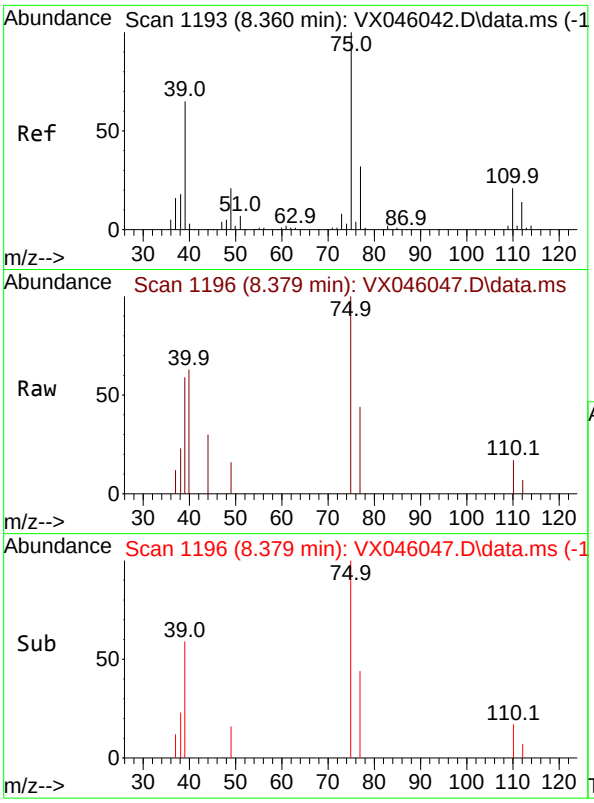



#53
t-1,3-Dichloropropene
Concen: 0.576 ug/l
RT: 8.988 min Scan# 1296
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 75 Resp: 1238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 42.7 | 25.0 | 37.6# |

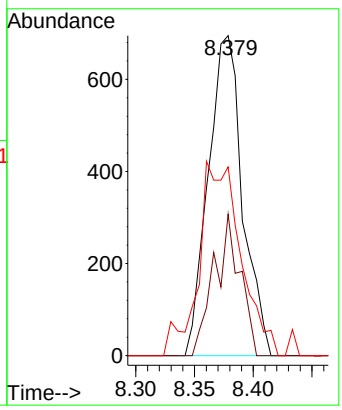





#54
cis-1,3-Dichloropropene
Concen: 0.564 ug/l
RT: 8.379 min Scan# 1
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 75 Resp: 141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 44.2 | 25.4 | 38.0 |
| 39 | 59.0 | 52.2 | 78.4 |




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

**Manual Integrations**
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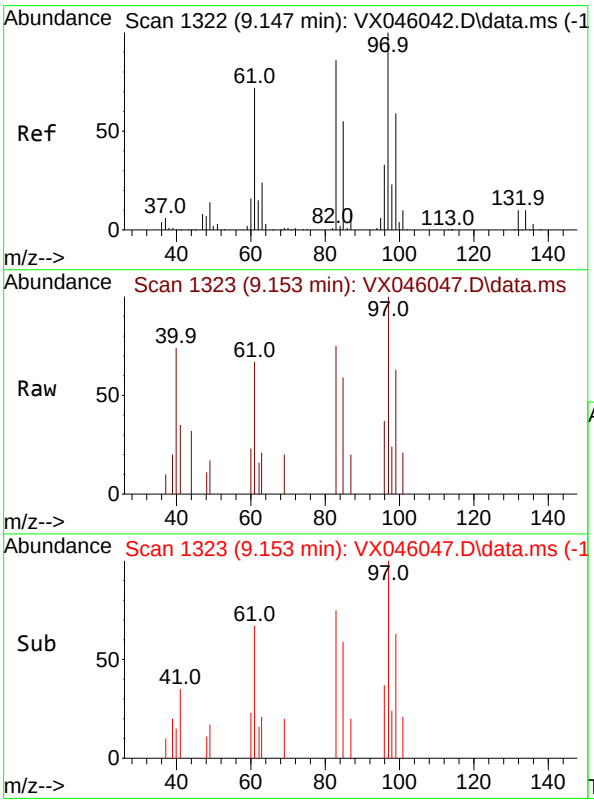
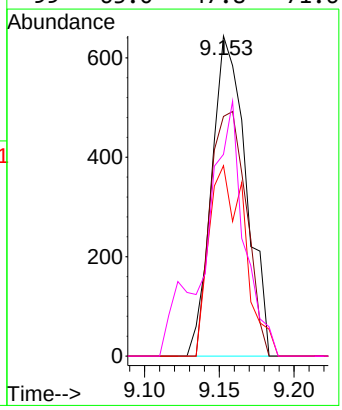
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

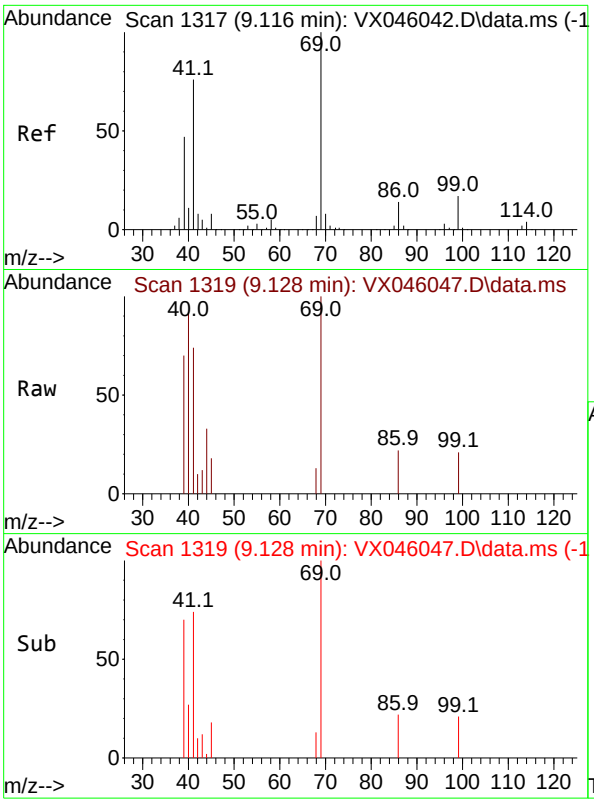



#55
1,1,2-Trichloroethane
Concen: 0.637 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 97 Resp: 1029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 74.8 | 69.0 | 103.6 |
| 85 | 59.5 | 44.3 | 66.5 |
| 99 | 63.0 | 47.8 | 71.6 |

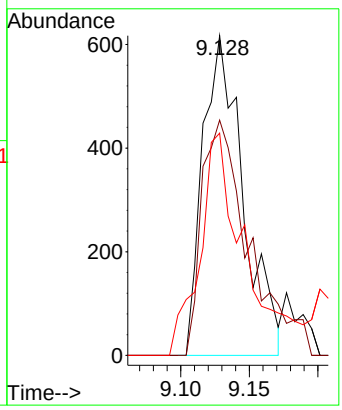





#56
Ethyl methacrylate
Concen: 0.504 ug/l
RT: 9.128 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 69 Resp: 126

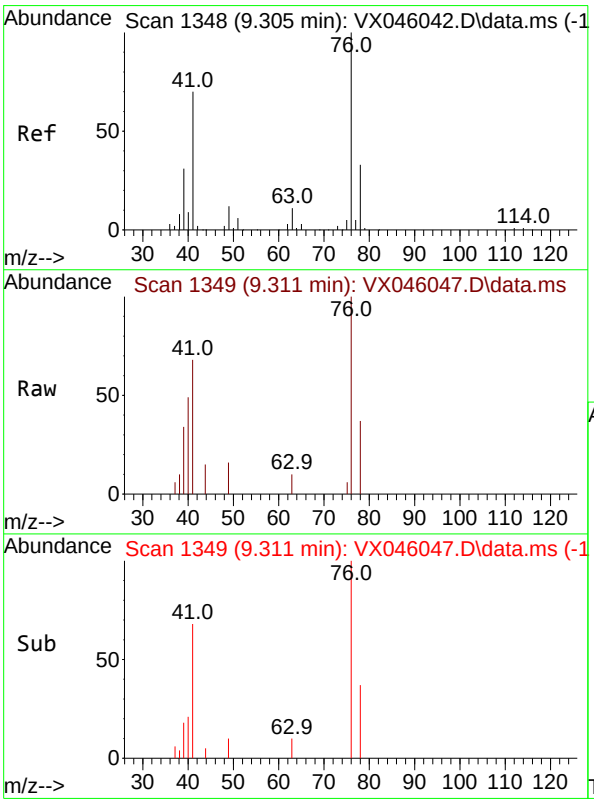
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 86.6 | 60.8 | 91.2 |
| 39 | 78.0 | 39.0 | 58.6 |




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

**Manual Integrations**
**APPROVED**

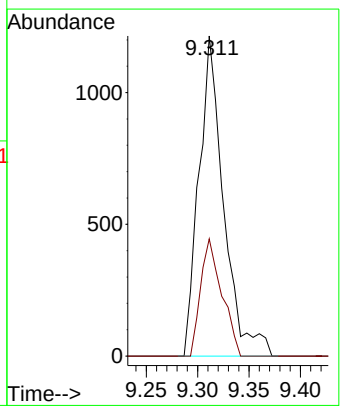
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

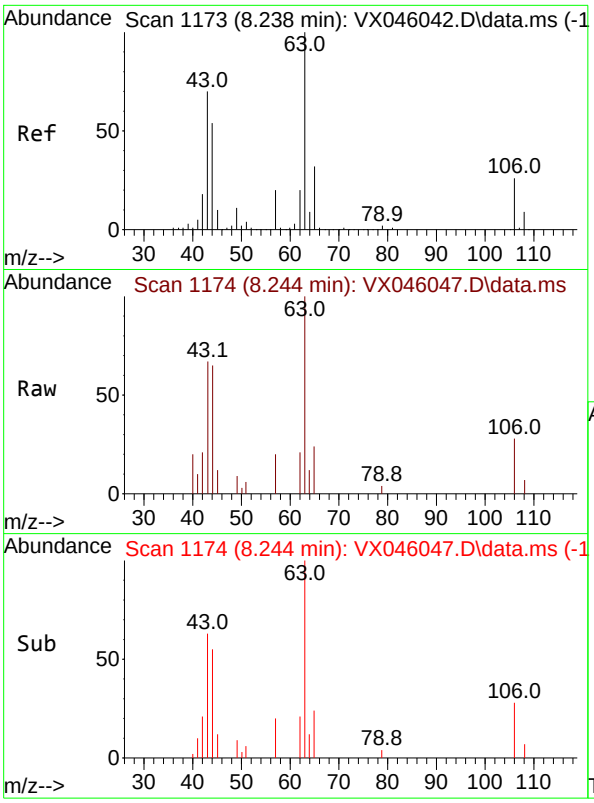



#57
1,3-Dichloropropane
Concen: 0.711 ug/l
RT: 9.311 min Scan# 1349
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 76 Resp: 2036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.4 | 26.3 | 39.5 |

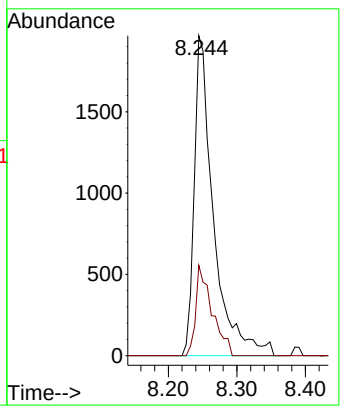





#58
2-Chloroethyl Vinyl ether
Concen: 3.420 ug/l
RT: 8.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 63 Resp: 384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 24.0 | 21.5 | 32.3 |




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

**Manual Integrations**
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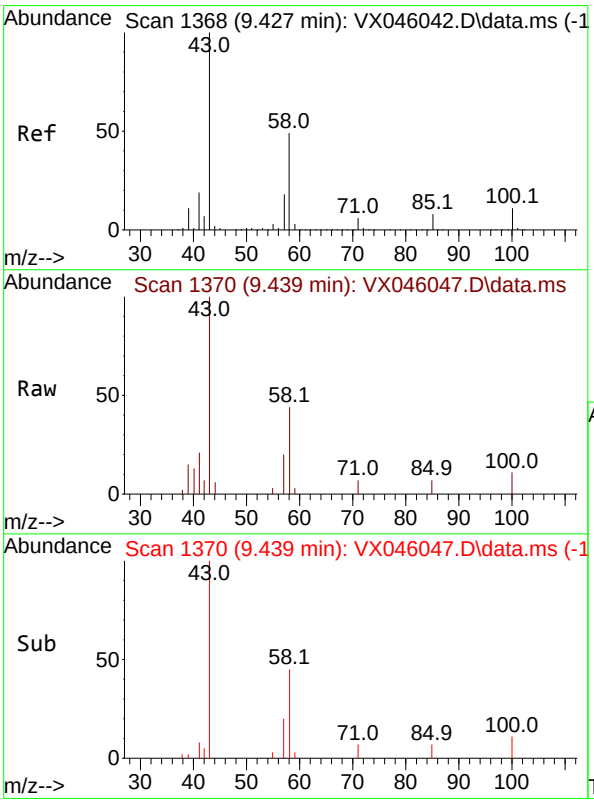
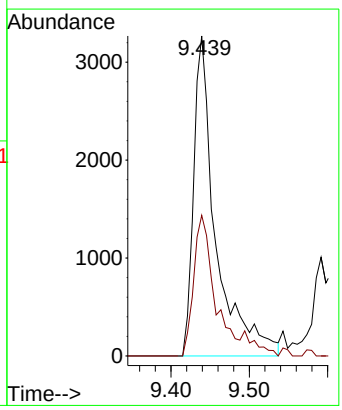
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

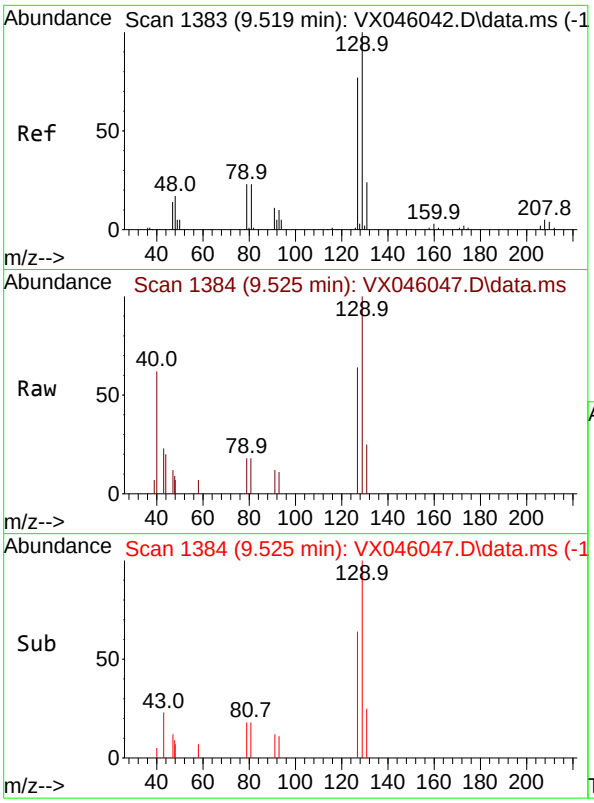



#59
2-Hexanone
Concen: 3.096 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 6424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.6 | 24.9 | 74.6 |

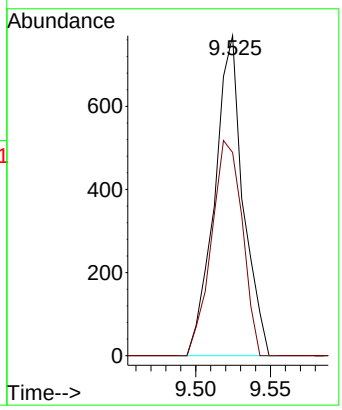





#60
Dibromochloromethane
Concen: 0.582 ug/l
RT: 9.525 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:129 Resp: 102

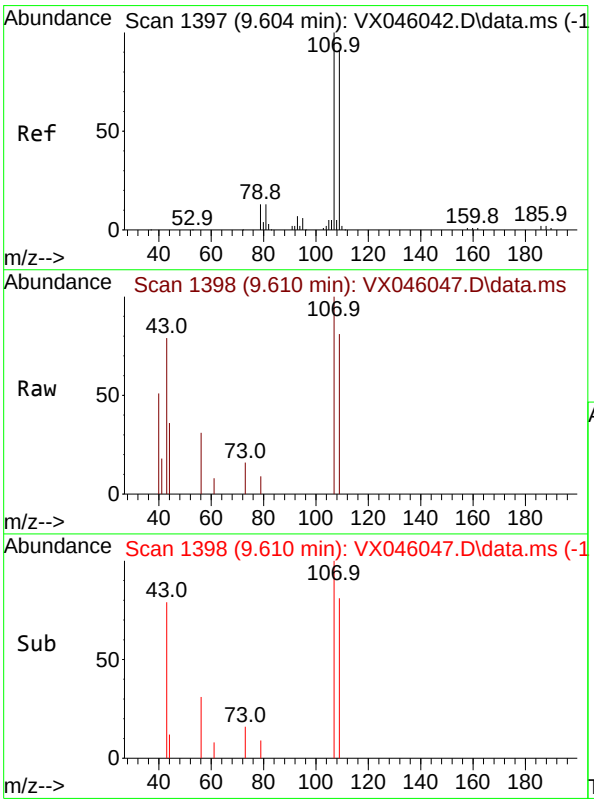
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 72.5 | 39.3 | 117.8 |




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

**Manual Integrations APPROVED**

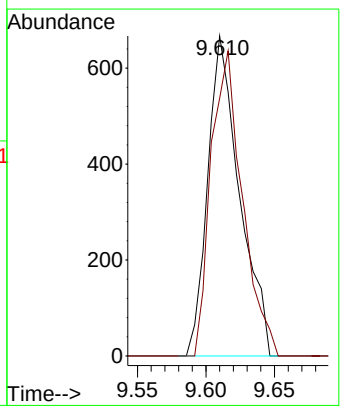
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

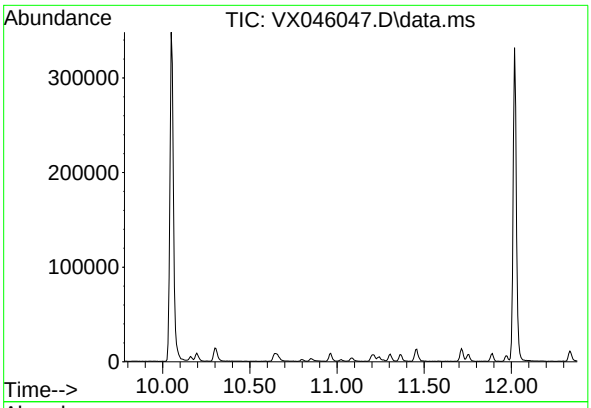


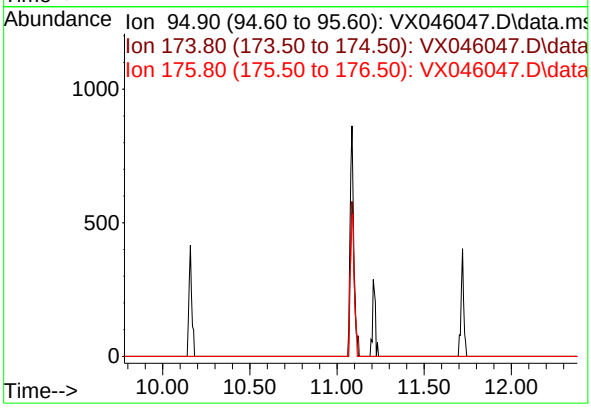

#61
1,2-Dibromoethane
Concen: 0.650 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:107 Resp: 1077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.0 | 73.3 | 109.9 |






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

Lab File: VX046047.D
Acq: 05 May 2025 16:27

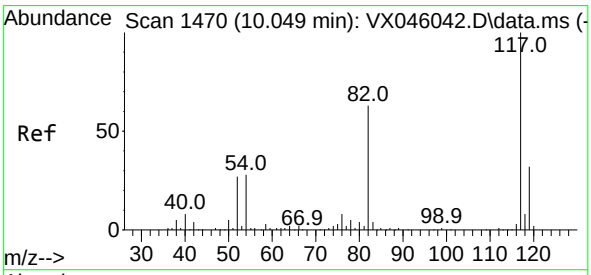
Tgt Ion: 95

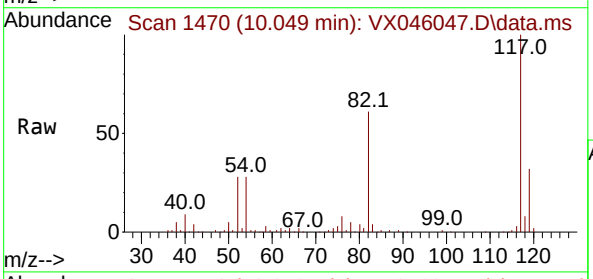
| Sig | Exp Ratio |
|---|---|
| 95 | 100 |
| 174 | 67.9 |
| 176 | 65.7 |

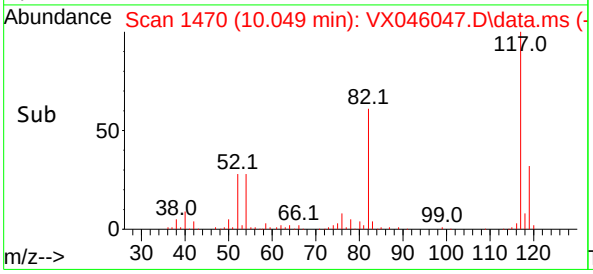
**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



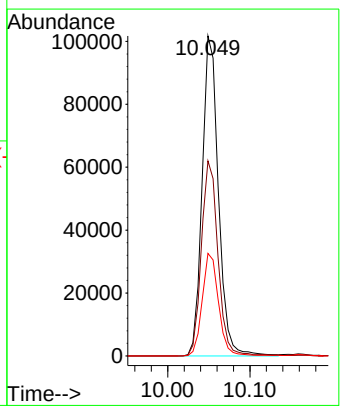



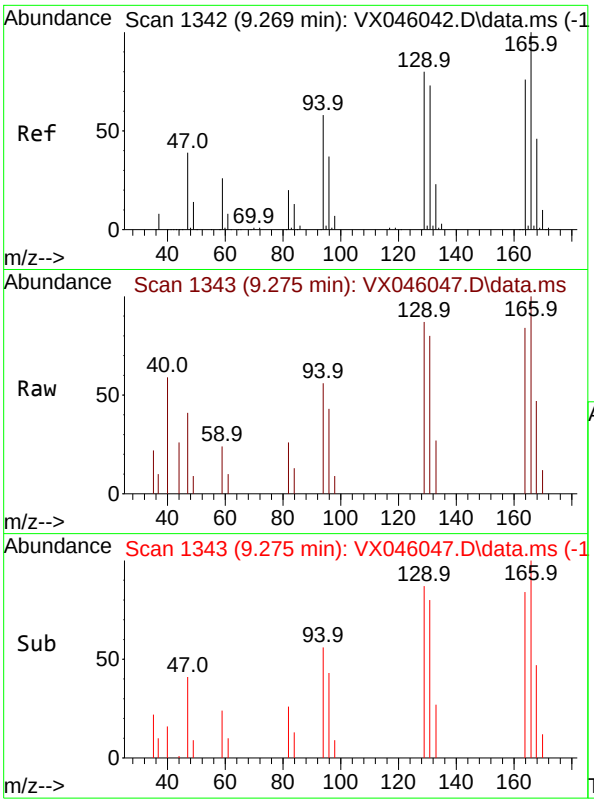




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:117 Resp: 140108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.0 | 50.6 | 76.0 |
| 119 | 32.1 | 25.8 | 38.6 |

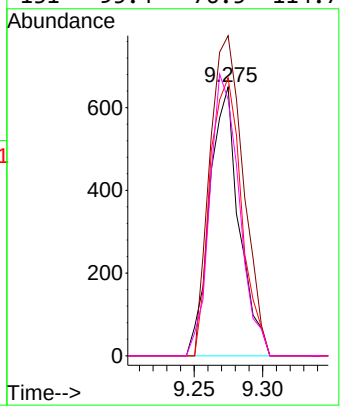





#64
Tetrachloroethene
Concen: 0.679 ug/l
RT: 9.275 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:164 Resp: 97

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 119.1 | 105.0 | 157.6 |
| 129 | 103.4 | 83.5 | 125.3 |
| 131 | 95.4 | 76.5 | 114.7 |




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

**Manual Integrations**
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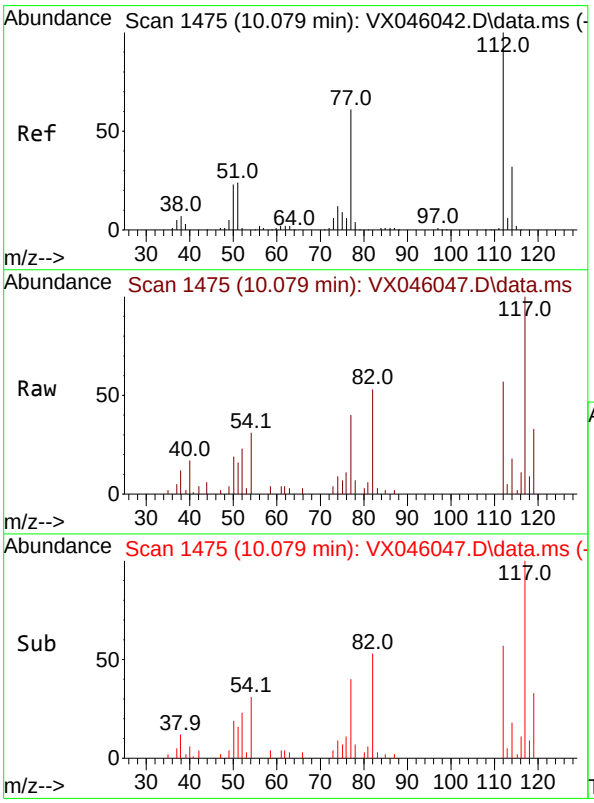
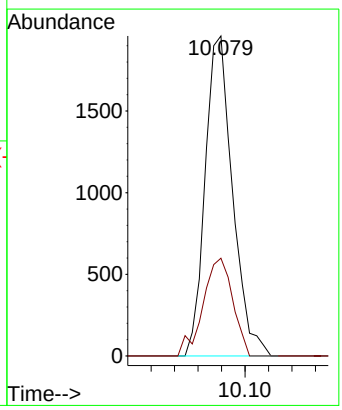
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

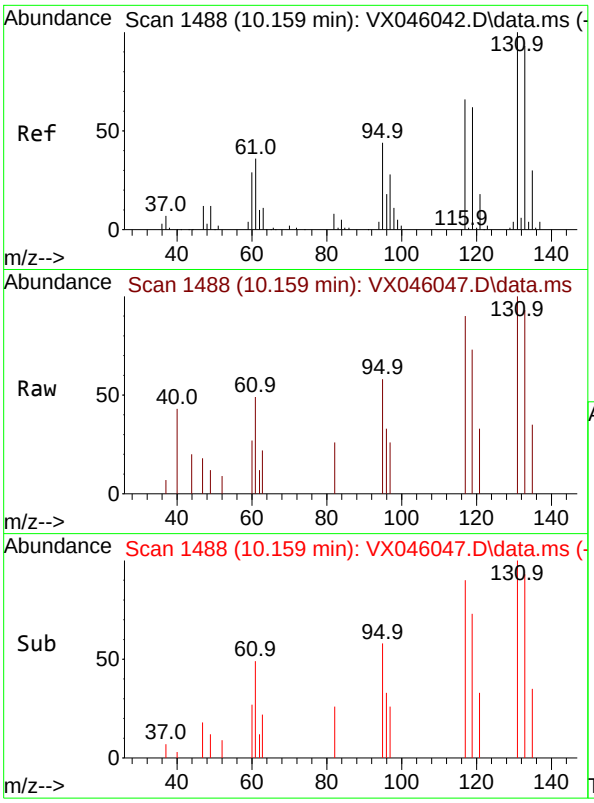



#65
Chlorobenzene
Concen: 0.735 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:112 Resp: 3170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 30.6 | 25.4 | 38.2 |

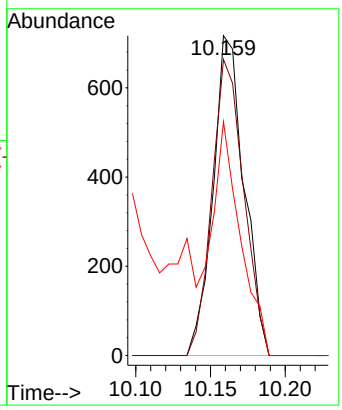





#66
1,1,1,2-Tetrachloroethane
Concen: 0.720 ug/l
RT: 10.159 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:131 Resp: 103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.9 | 47.3 | 141.9 |
| 119 | 0.0 | 31.6 | 95.0# |




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

**Manual Integrations**
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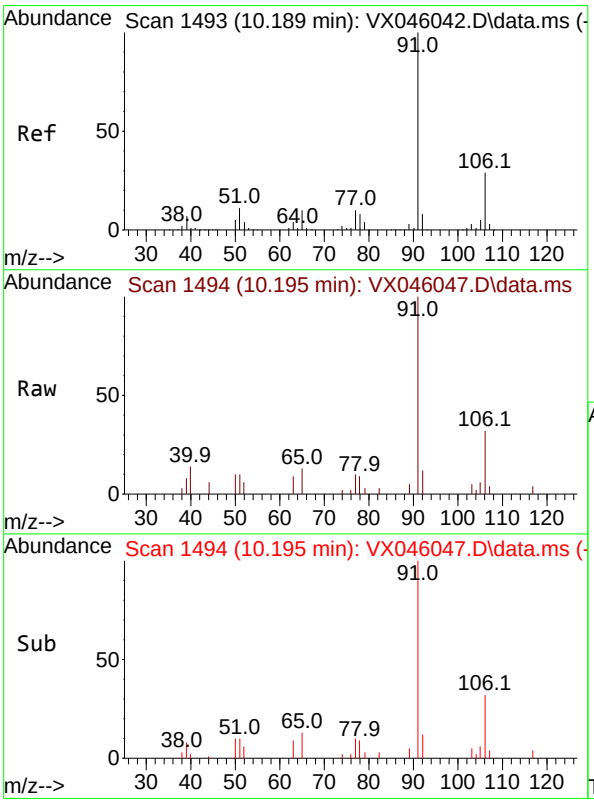
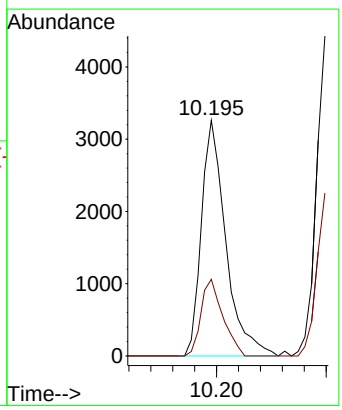
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

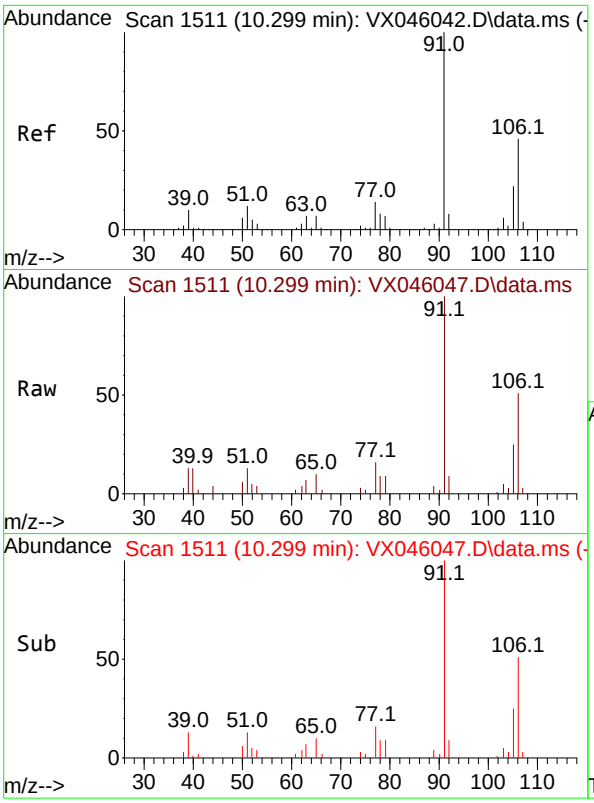



#67
Ethyl Benzene
Concen: 0.687 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 91 Resp: 5052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.5 | 23.4 | 35.2 |

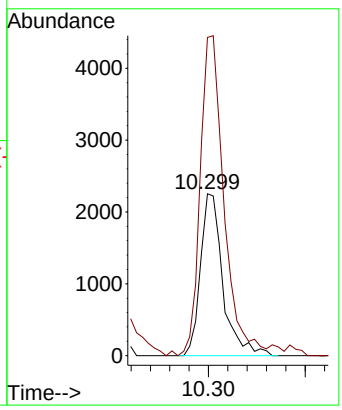





#68
m/p-Xylenes
Concen: 1.367 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:106 Resp: 363

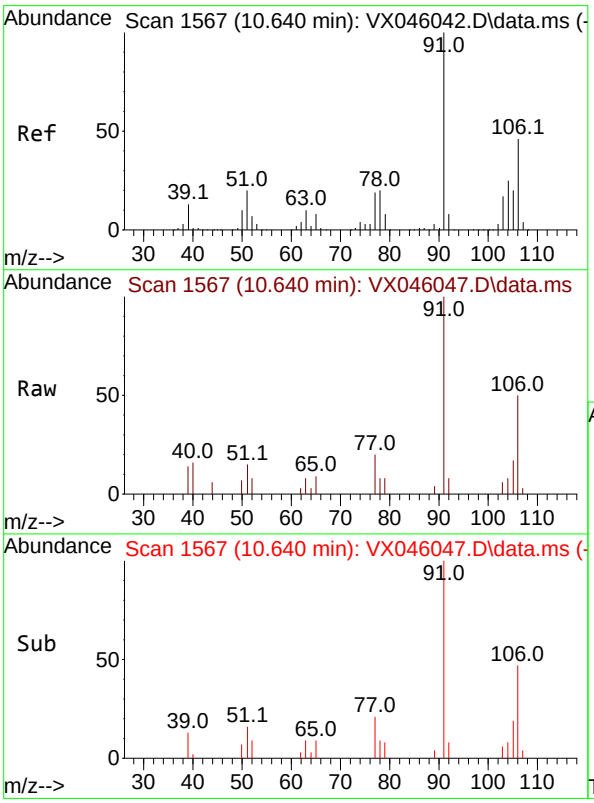
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.8 | 171.2 | 256.8 |




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

**Manual Integrations APPROVED**

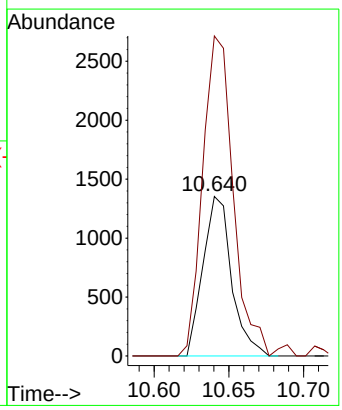
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

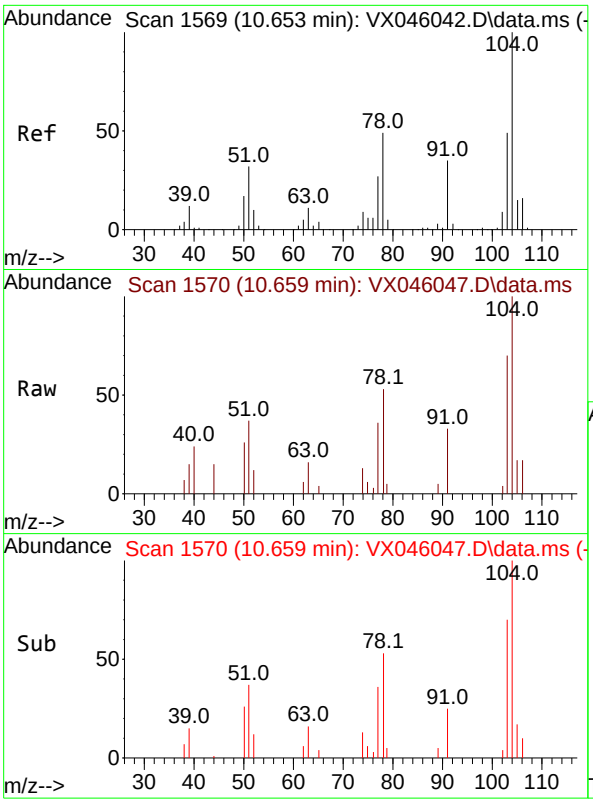



#69
o-Xylene
Concen: 0.672 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:106 Resp: 1799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 214.9 | 112.7 | 338.1 |

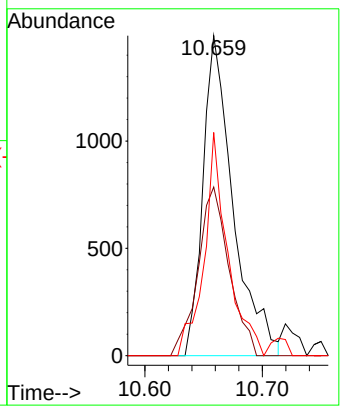





#70
Styrene
Concen: 0.622 ug/l
RT: 10.659 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:104 Resp: 266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 54.3 | 45.7 | 68.5 |
| 103 | 53.9 | 43.7 | 65.5 |




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

**Manual Integrations**
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Reviewed By :John Carlone 05/06/2025
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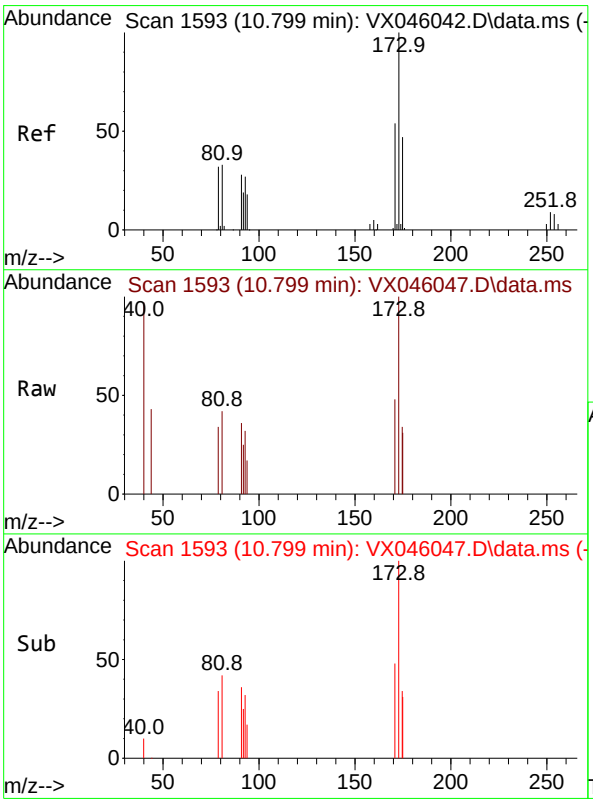
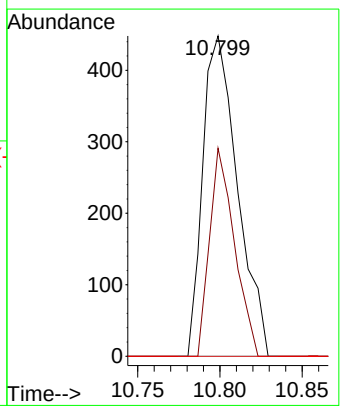
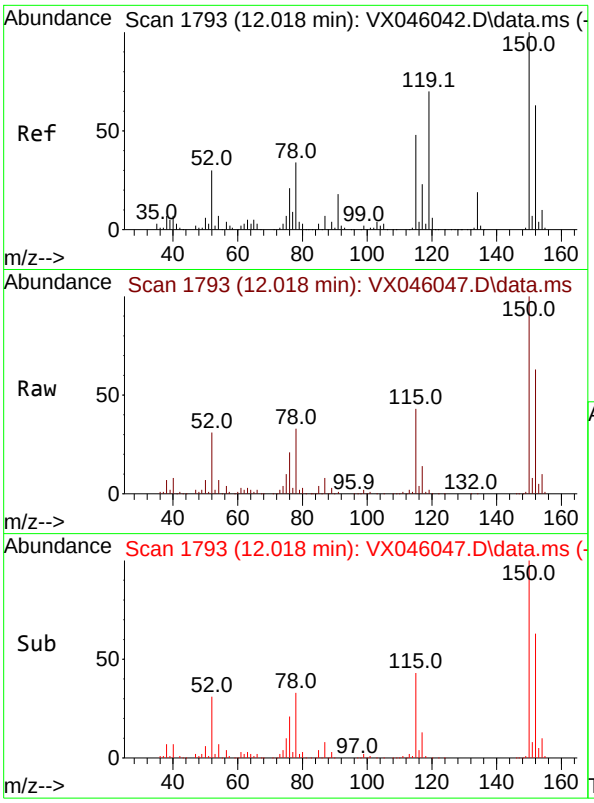



#71
Bromoform
Concen: 0.608 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:173 Resp: 657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.6 | 23.4 | 70.0 |
| 254 | 0.0 | 0.0 | 0.0 |

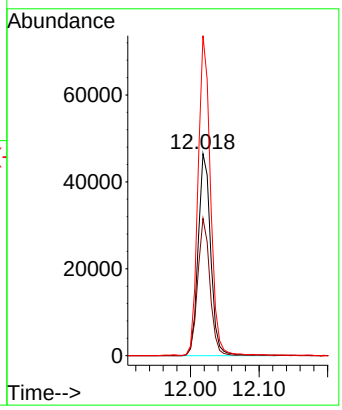





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:152 Resp: 5912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 66.6 | 46.9 | 140.7 |
| 150 | 156.3 | 0.0 | 351.0 |




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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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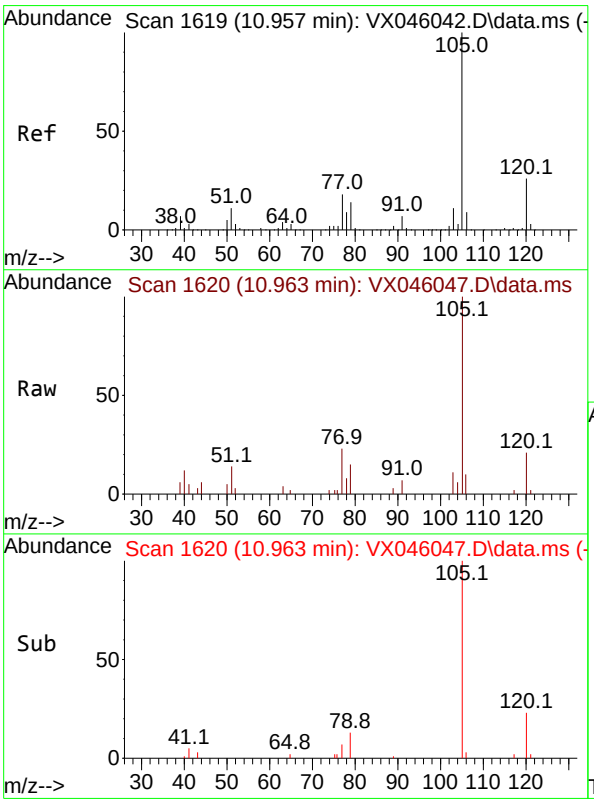
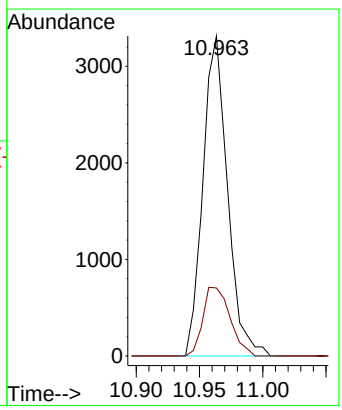
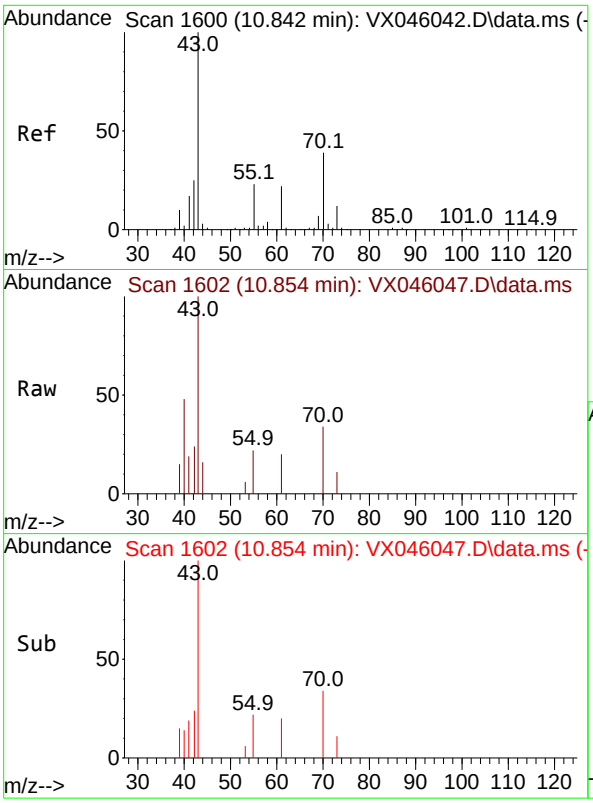



#73
Isopropylbenzene
Concen: 0.695 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:105 Resp: 4480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 23.7 | 12.8 | 38.4 |

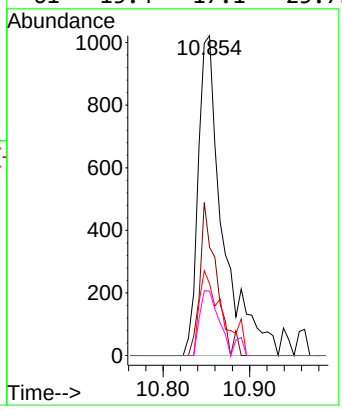





#74
N-amyl acetate
Concen: 0.631 ug/l
RT: 10.854 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 31.5 | 30.9 | 46.3 |
| 55 | 24.5 | 18.7 | 28.1 |
| 61 | 15.4 | 17.1 | 25.7# |




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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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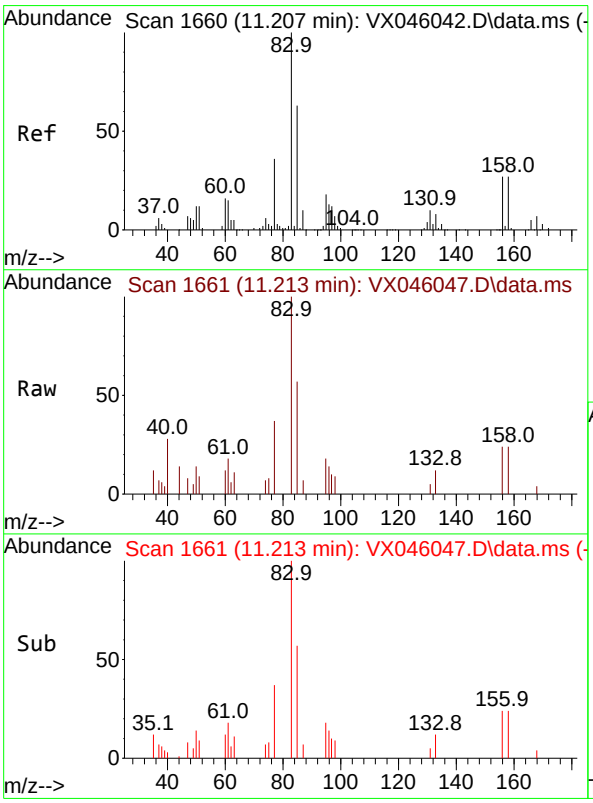
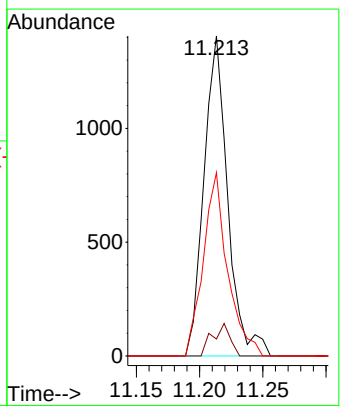
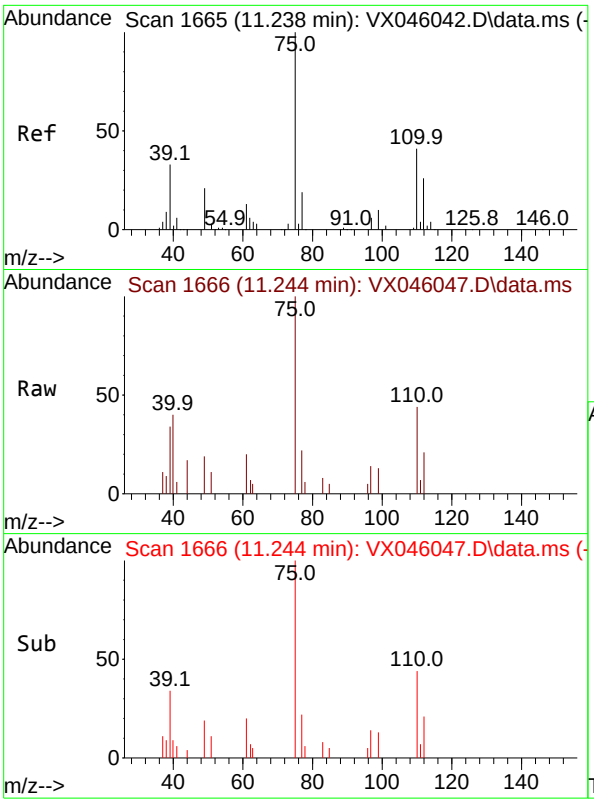



#75
1,1,2,2-Tetrachloroethane
Concen: 0.800 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 83 Resp: 1835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 7.5 | 5.0 | 14.9 |
| 85 | 58.7 | 31.9 | 95.7 |






#76
1,2,3-Trichloropropane
Concen: 0.674 ug/l m
RT: 11.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 75 Resp: 166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.7 | 20.5 | 61.5 |

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

**Manual Integrations**
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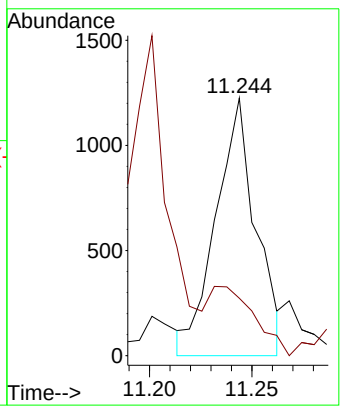
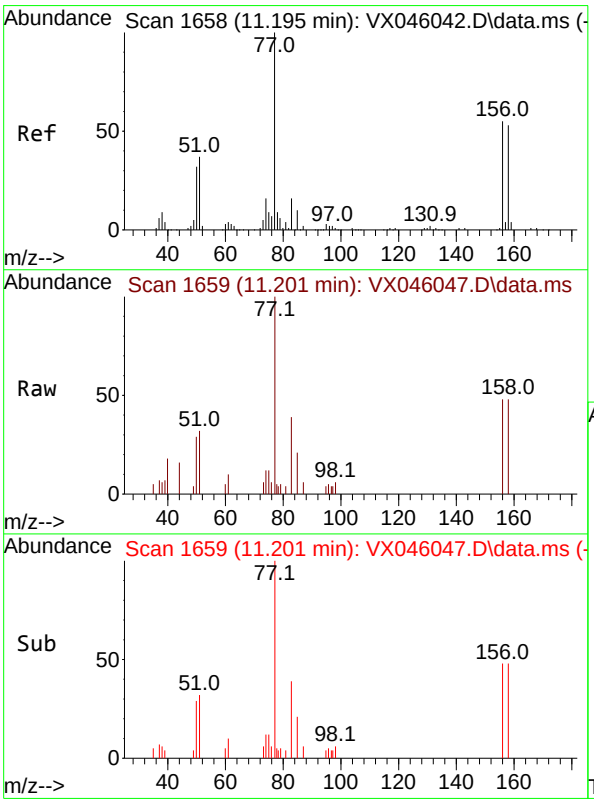
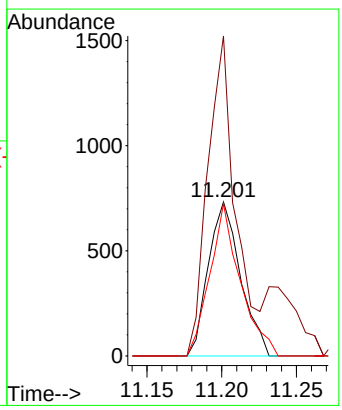


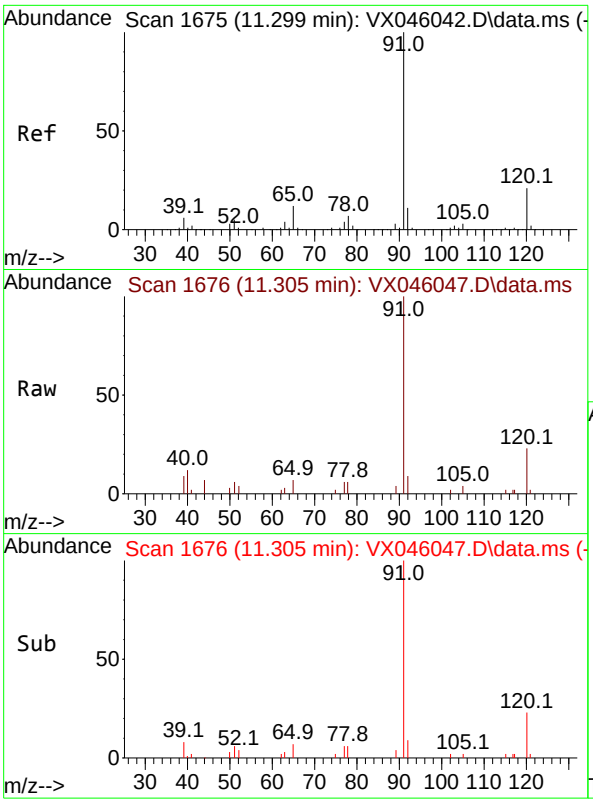




#77
Bromobenzene
Concen: 0.734 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:156 Resp: 1095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 179.5 | 92.8 | 278.3 |
| 158 | 93.5 | 48.8 | 146.3 |

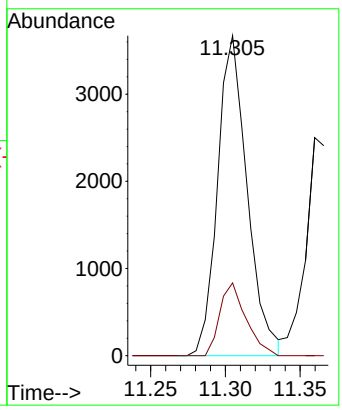





#78
n-propylbenzene
Concen: 0.699 ug/l
RT: 11.305 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 91 Resp: 505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 20.1 | 10.8 | 32.4 |




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

**Manual Integrations**
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Reviewed By :John Carlone 05/06/2025
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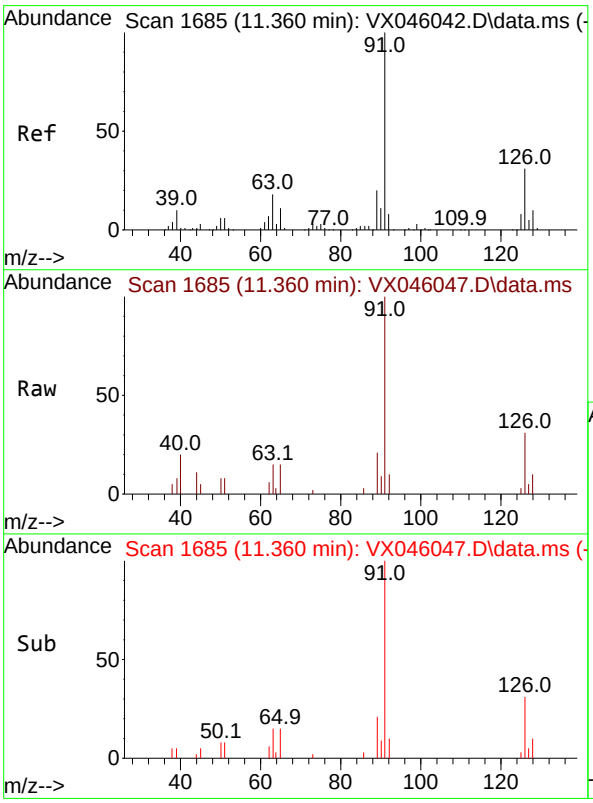
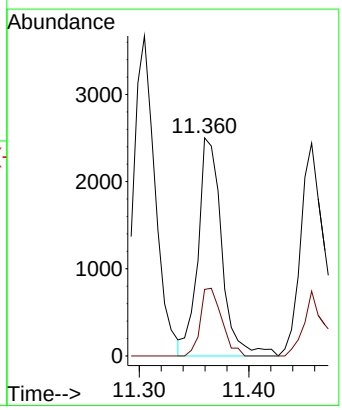
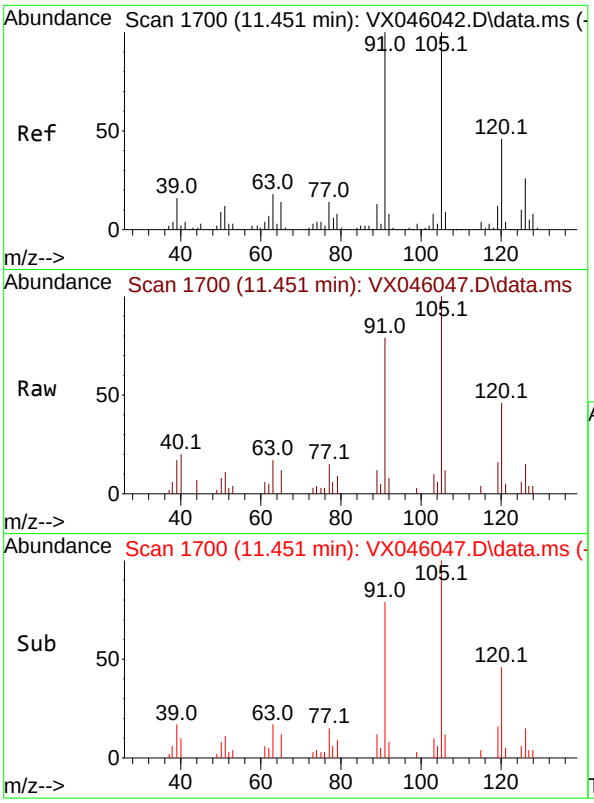



#79
2-Chlorotoluene
Concen: 0.773 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 91 Resp: 3765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.0 | 15.6 | 46.7 |






#80
1,3,5-Trimethylbenzene
Concen: 0.671 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:105 Resp: 359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.4 | 23.1 | 69.2 |

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

**Manual Integrations APPROVED**

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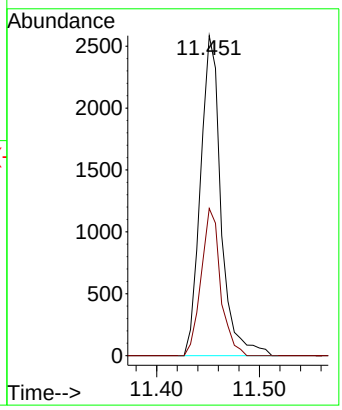
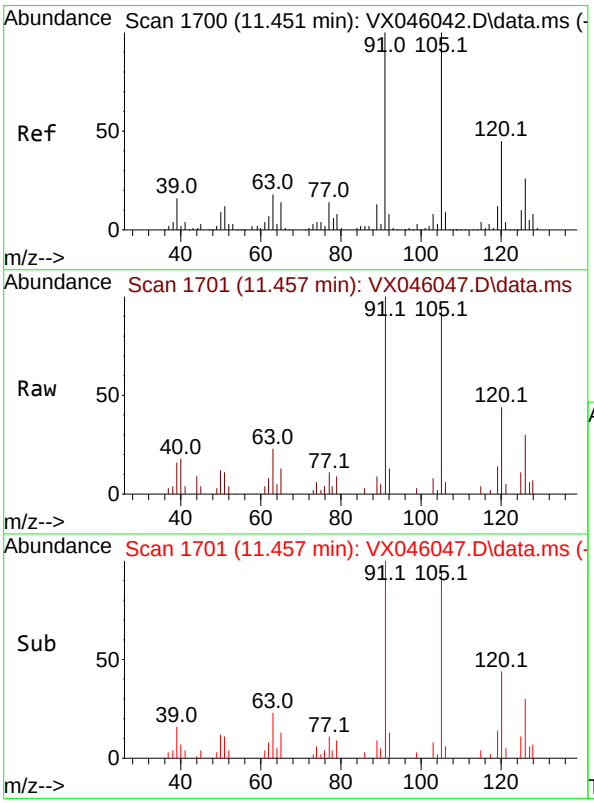
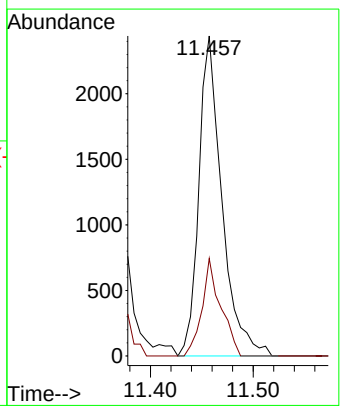


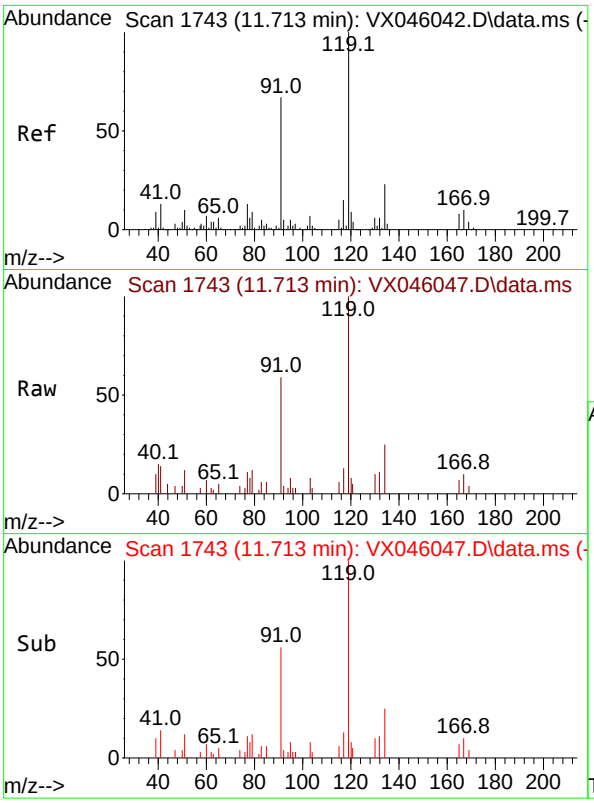




#82
4-Chlorotoluene
Concen: 0.713 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 91 Resp: 3815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 24.8 | 13.3 | 39.8 |

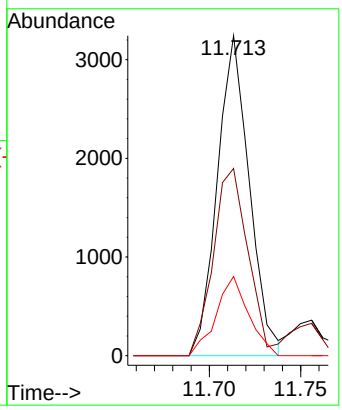





#83
tert-Butylbenzene
Concen: 0.751 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:119 Resp: 395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.9 | 32.9 | 98.7 |
| 134 | 25.2 | 11.4 | 34.1 |




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

**Manual Integrations APPROVED**

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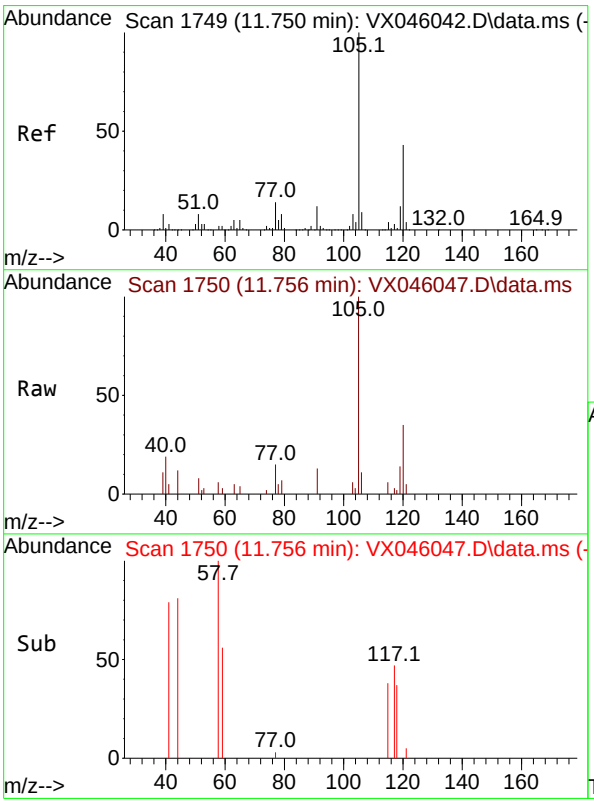
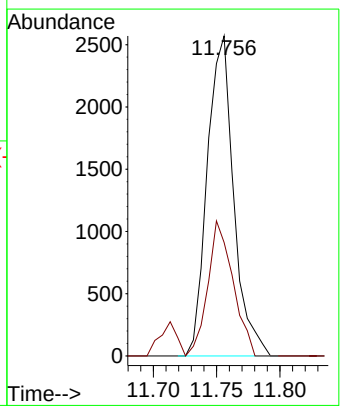
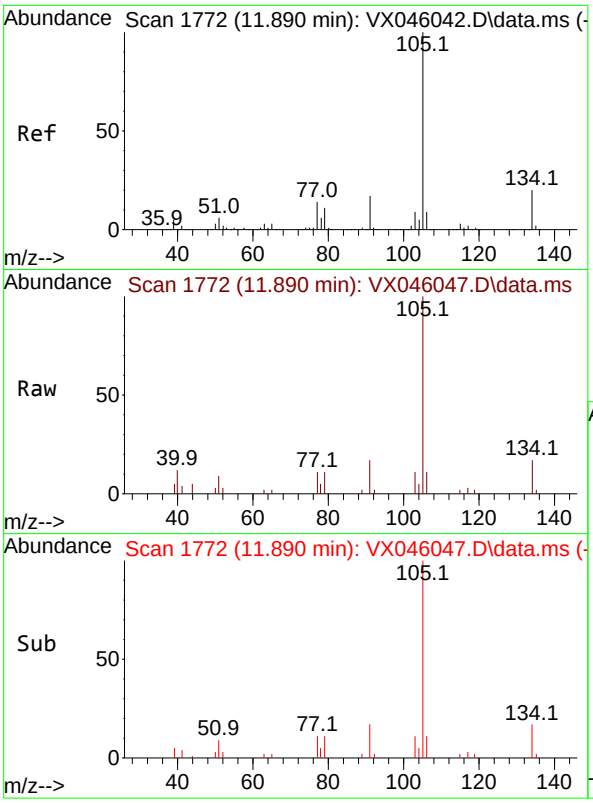



#84
1,2,4-Trimethylbenzene
Concen: 0.697 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:105 Resp: 3725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 40.3 | 21.2 | 63.6 |






#85
sec-Butylbenzene
Concen: 0.672 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:105 Resp: 438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.2 | 9.7 | 29.1 |

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

**Manual Integrations APPROVED**

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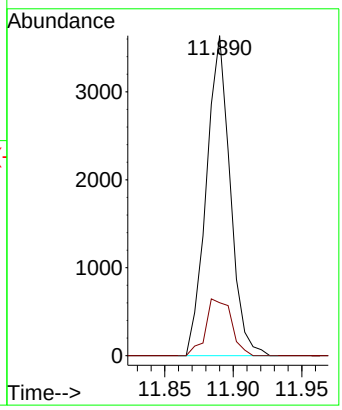
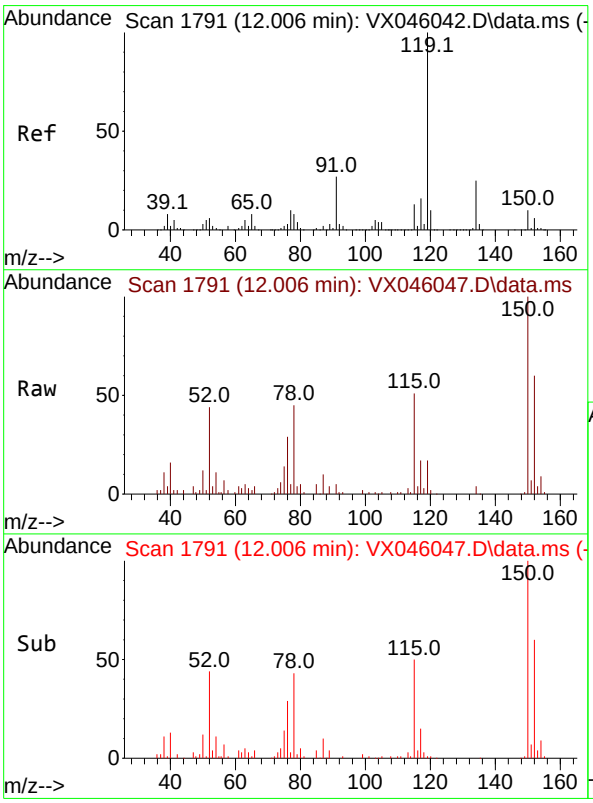
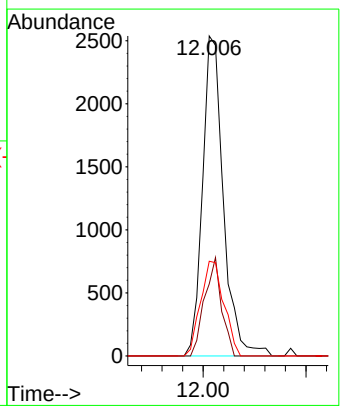


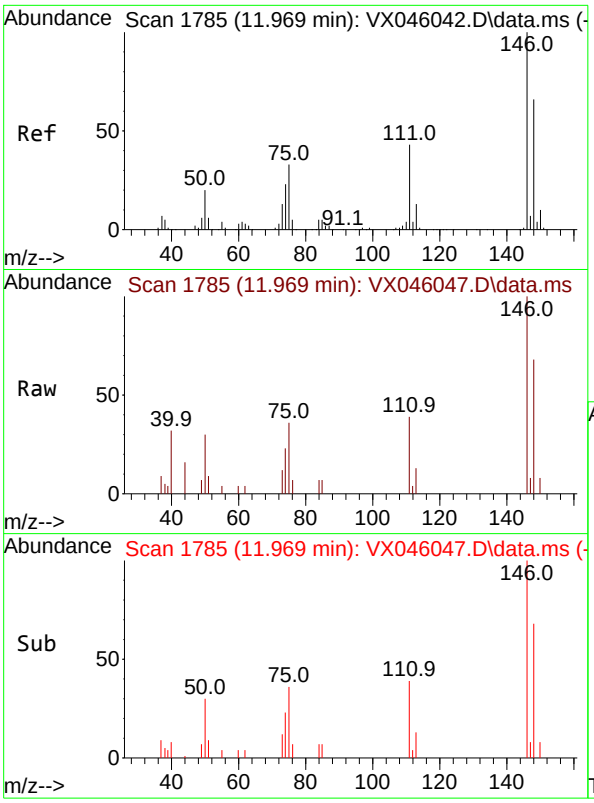




#86
p-Isopropyltoluene
Concen: 0.679 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:119 Resp: 3577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.0 | 12.5 | 37.5 |
| 91 | 33.1 | 13.8 | 41.4 |

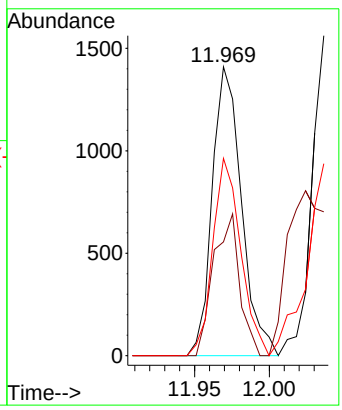





#87
1,3-Dichlorobenzene
Concen: 0.689 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:146 Resp: 191

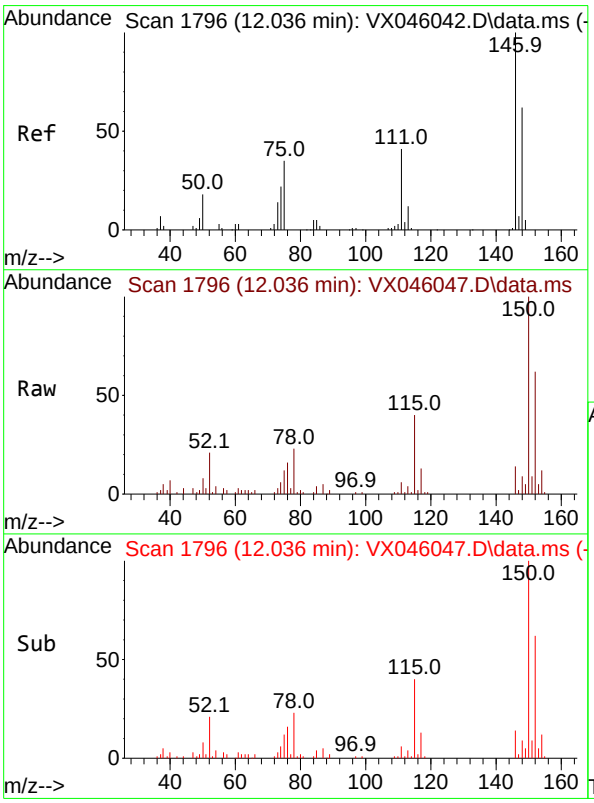
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.9 | 22.1 | 66.3 |
| 148 | 65.3 | 32.1 | 96.5 |




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

**Manual Integrations APPROVED**

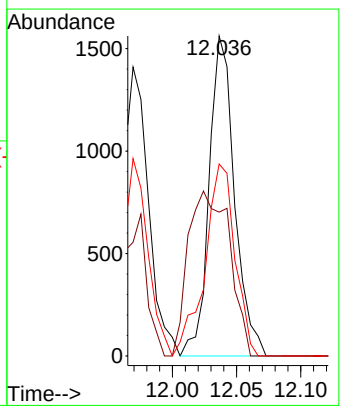
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

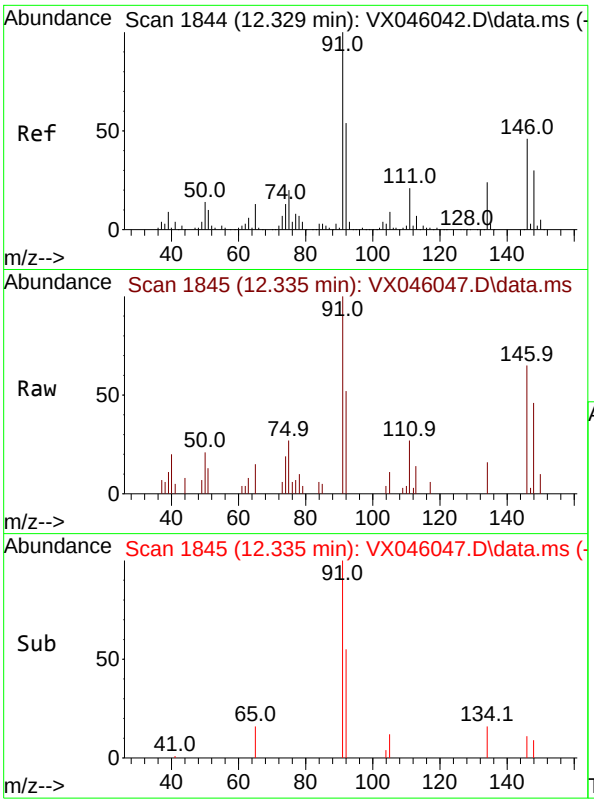



#88
1,4-Dichlorobenzene
Concen: 0.789 ug/l m
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:146 Resp: 2149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.1 | 21.3 | 63.9 |
| 148 | 58.2 | 31.9 | 95.5 |

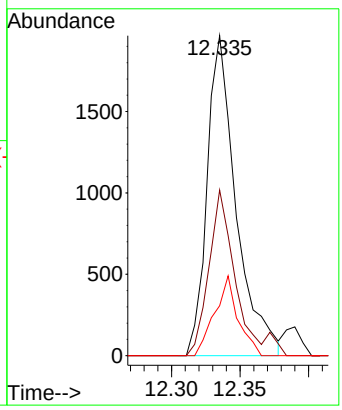





#89
n-Butylbenzene
Concen: 0.631 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 91 Resp: 288

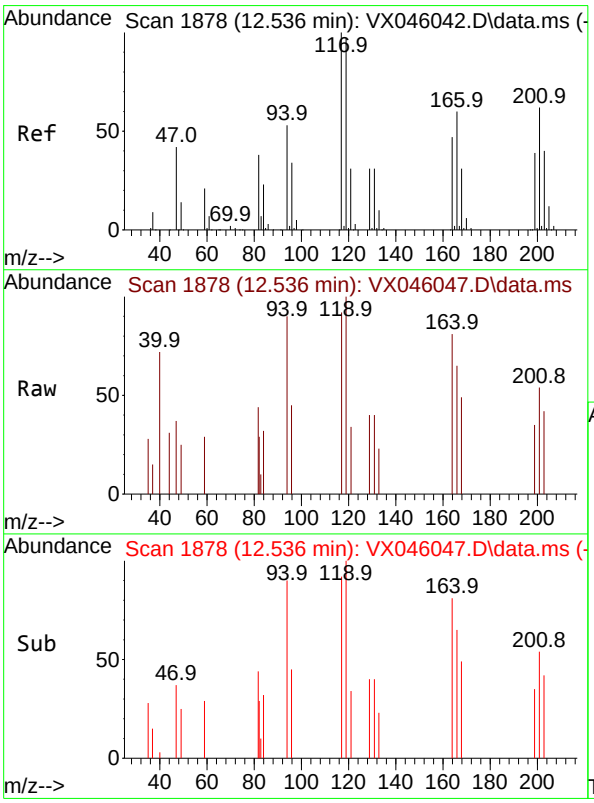
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 48.1 | 26.9 | 80.7 |
| 134 | 20.1 | 11.8 | 35.3 |




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

**Manual Integrations**
**APPROVED**

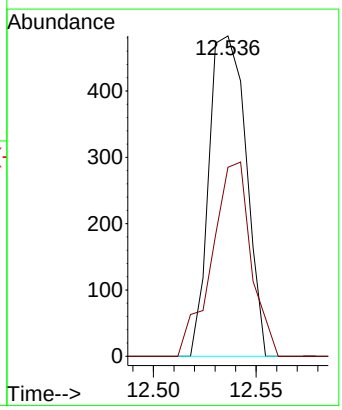
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

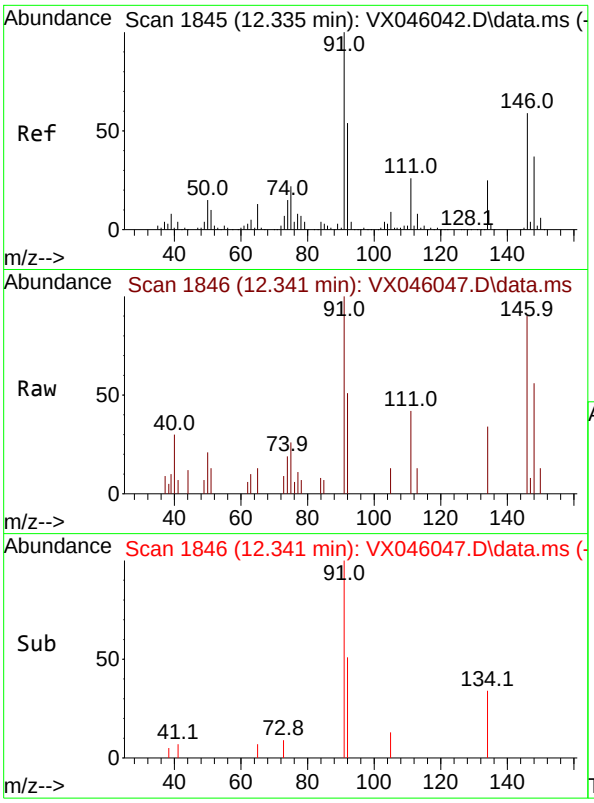



#90
Hexachloroethane
Concen: 0.616 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:117 Resp: 604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 64.2 | 31.6 | 94.7 |

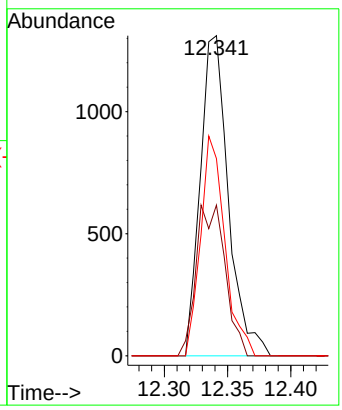





#91
1,2-Dichlorobenzene
Concen: 0.747 ug/l
RT: 12.341 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:146 Resp: 202

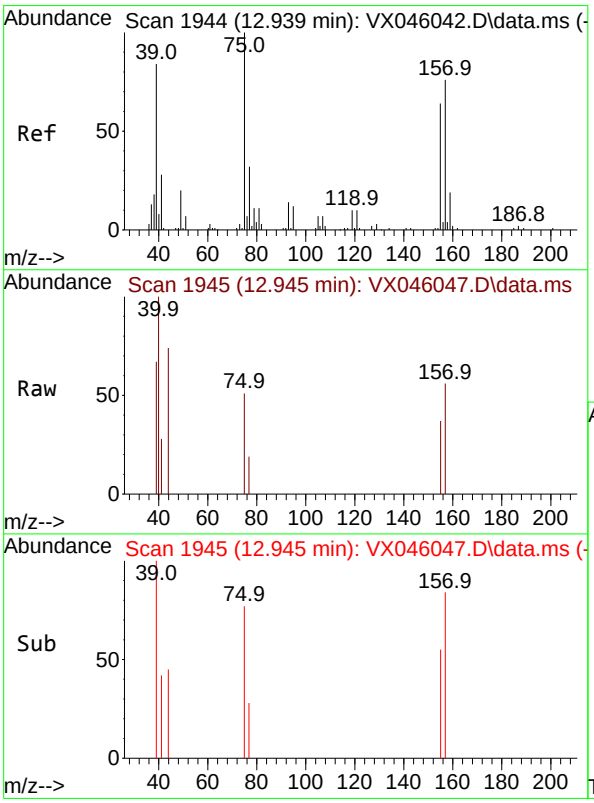
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.8 | 22.4 | 67.3 |
| 148 | 59.4 | 31.6 | 94.8 |




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

**Manual Integrations APPROVED**

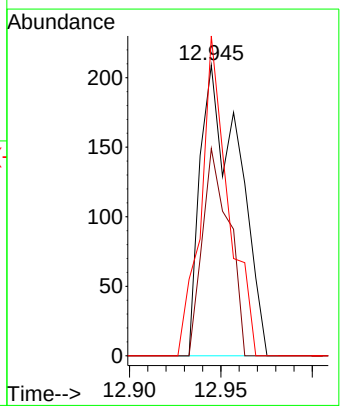
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

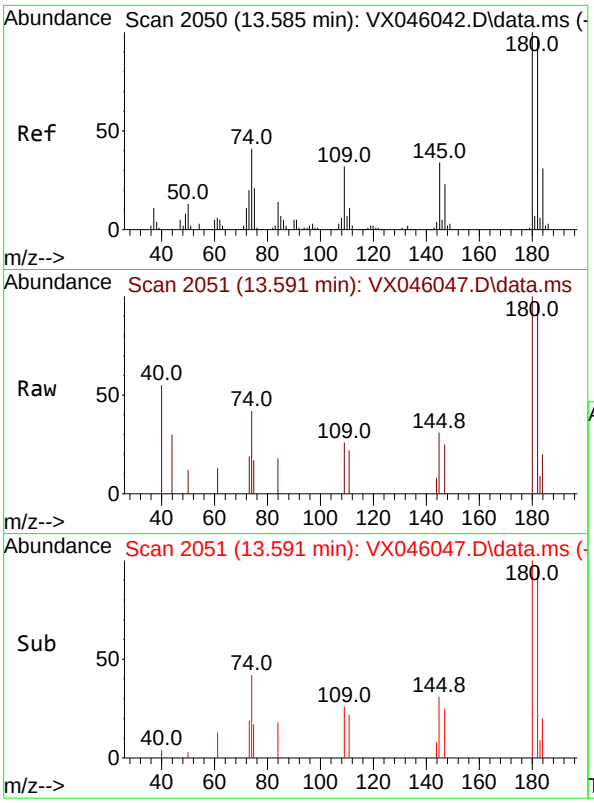



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.586 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 75 Resp: 306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 49.3 | 34.9 | 104.8 |
| 157 | 78.1 | 43.8 | 131.4 |

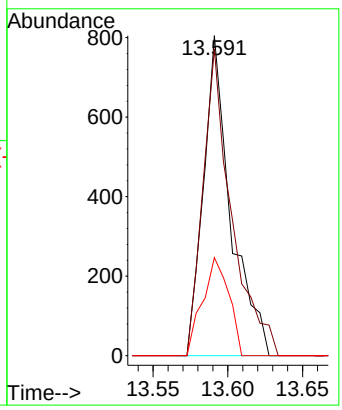





#93
1,2,4-Trichlorobenzene
Concen: 0.688 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:180 Resp: 101

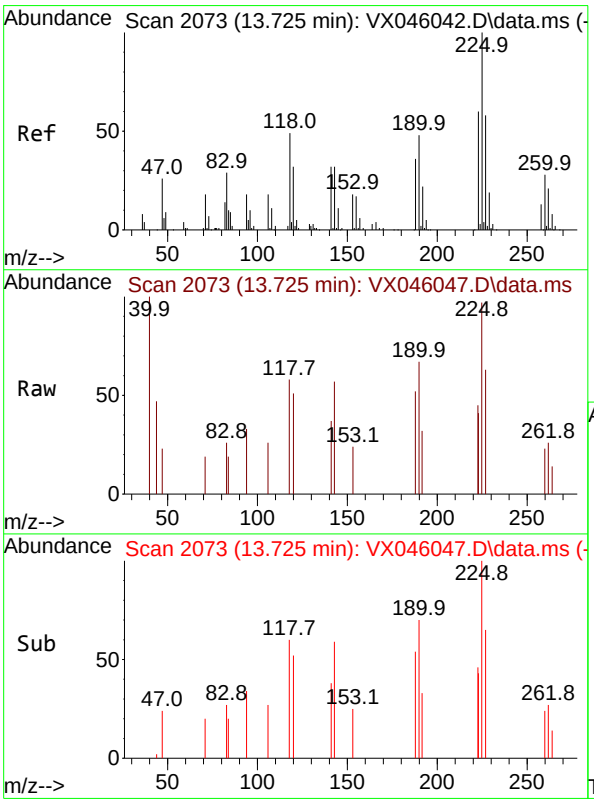
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 100.6 | 47.9 | 143.8 |
| 145 | 29.5 | 17.1 | 51.2 |




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

**Manual Integrations APPROVED**

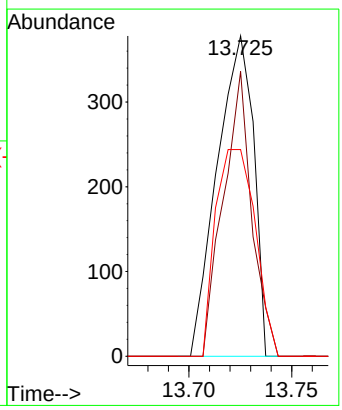
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

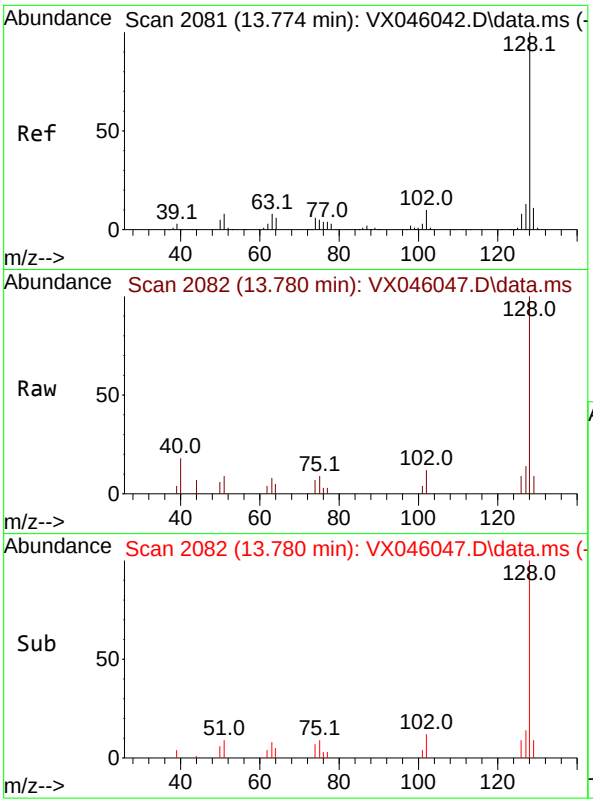



#94
Hexachlorobutadiene
Concen: 0.671 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:225 Resp: 465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 69.7 | 30.8 | 92.4 |
| 227 | 70.5 | 30.9 | 92.7 |

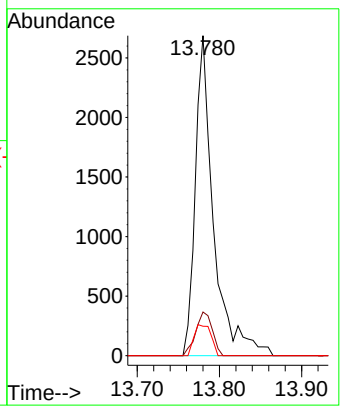





#95
Naphthalene
Concen: 0.767 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:128 Resp: 413

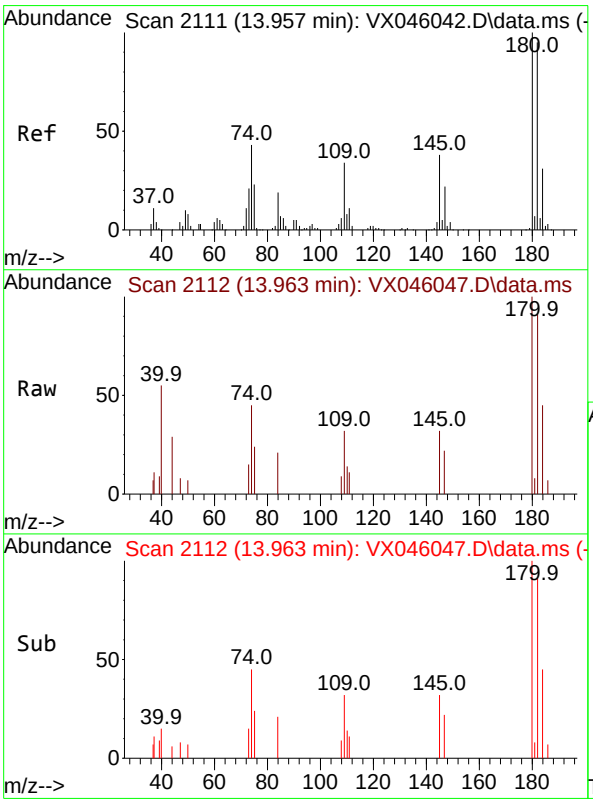
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.4 | 10.4 | 15.6 |
| 129 | 8.9 | 8.6 | 13.0 |




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

**Manual Integrations**
**APPROVED**

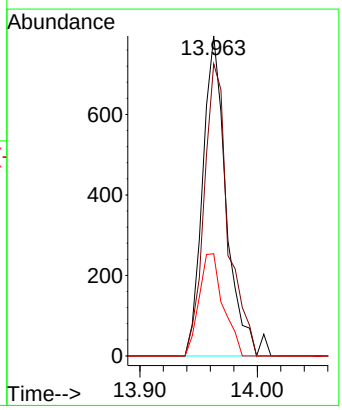
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025




#96
1,2,3-Trichlorobenzene
Concen: 0.716 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:180 Resp: 1113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.5 | 47.8 | 143.3 |
| 145 | 32.5 | 18.1 | 54.3 |



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 92588 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 162651 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 145078 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 68229 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 83733 | 48.509 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 97.020% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 58192 | 49.683 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 99.360% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 198575 | 48.984 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 97.960% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 75568 | 48.596 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 97.200% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.167 | 85 | 78783 | 55.594 | ug/l | 99 |
| 3) Chloromethane | 1.307 | 50 | 72275 | 52.592 | ug/l | 100 |
| 4) Vinyl Chloride | 1.374 | 62 | 65994 | 51.598 | ug/l | 98 |
| 5) Bromomethane | 1.593 | 94 | 30033 | 50.627 | ug/l | 97 |
| 6) Chloroethane | 1.666 | 64 | 35690 | 52.271 | ug/l | 94 |
| 7) Trichlorofluoromethane | 1.874 | 101 | 99352 | 52.560 | ug/l | 99 |
| 8) Diethyl Ether | 2.130 | 74 | 31875 | 49.536 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 59451 | 50.822 | ug/l | 99 |
| 10) Methyl Iodide | 2.447 | 142 | 73940 | 53.419 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.977 | 59 | 61065 | 252.025 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.313 | 96 | 56097 | 51.097 | ug/l | 98 |
| 13) Acrolein | 2.233 | 56 | 64157 | 232.505 | ug/l | 99 |
| 14) Allyl chloride | 2.660 | 41 | 108757 | 51.833 | ug/l | 100 |
| 15) Acrylonitrile | 3.063 | 53 | 181808 | 262.412 | ug/l | 99 |
| 16) Acetone | 2.380 | 43 | 169923 | 245.518 | ug/l | 98 |
| 17) Carbon Disulfide | 2.502 | 76 | 132695 | 50.981 | ug/l | 99 |
| 18) Methyl Acetate | 2.703 | 43 | 80251 | 49.968 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 195442 | 50.777 | ug/l | 99 |
| 20) Methylene Chloride | 2.782 | 84 | 63369 | 47.779 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 55770 | 50.513 | ug/l | 99 |
| 22) Diisopropyl ether | 3.757 | 45 | 209946 | 51.800 | ug/l | 97 |
| 23) Vinyl Acetate | 3.715 | 43 | 946746 | 265.585 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 114733 | 50.825 | ug/l | 98 |
| 25) 2-Butanone | 4.556 | 43 | 258339 | 257.110 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 88229 | 49.934 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 67727 | 50.956 | ug/l | 100 |
| 28) Bromochloromethane | 4.891 | 49 | 55390 | 50.975 | ug/l | 98 |
| 29) Tetrahydrofuran | 5.001 | 42 | 163675 | 259.958 | ug/l | 99 |
| 30) Chloroform | 5.093 | 83 | 120782 | 51.332 | ug/l | 97 |
| 31) Cyclohexane | 5.458 | 56 | 103158 | 50.147 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 104243 | 51.108 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 5.690 | 75 | 77931 | 49.521 | ug/l | 99 |
| 37) Ethyl Acetate | 4.715 | 43 | 98604 | 50.714 | ug/l | 100 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 88100 | 49.825 | ug/l | 97 |
| 39) Methylcyclohexane | 7.373 | 83 | 100808 | 49.757 | ug/l | 98 |
| 40) Benzene | 6.031 | 78 | 233977 | 50.759 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 56017 | 55.076 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 101185 | 50.861 | ug/l | | 98 |
| 43) Isopropyl Acetate | 6.336 | 43 | 154818 | 52.195 | ug/l | | 99 |
| 44) Trichloroethene | 7.123 | 130 | 55491 | 50.018 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 7.428 | 63 | 59582 | 51.983 | ug/l | | 98 |
| 46) Dibromomethane | 7.580 | 93 | 45181 | 49.978 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.818 | 83 | 92388 | 51.889 | ug/l | | 100 |
| 48) Methyl methacrylate | 7.690 | 41 | 82144 | 54.226 | ug/l | | 98 |
| 49) 1,4-Dioxane | 7.659 | 88 | 30477 | 1059.599 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 510206 | 259.133 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 144574 | 51.150 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 83751 | 52.920 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 92517 | 52.892 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 56713 | 50.887 | ug/l | | 96 |
| 56) Ethyl methacrylate | 9.116 | 69 | 95772 | 53.918 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 99663 | 49.793 | ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 240681 | 265.780 | ug/l | | 99 |
| 59) 2-Hexanone | 9.427 | 43 | 390701 | 268.218 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.519 | 129 | 63738 | 52.075 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.610 | 107 | 59134 | 51.050 | ug/l | | 98 |
| 64) Tetrachloroethene | 9.269 | 164 | 48034 | 46.795 | ug/l | | 98 |
| 65) Chlorobenzene | 10.073 | 112 | 154640 | 48.699 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 53735 | 49.557 | ug/l | | 100 |
| 67) Ethyl Benzene | 10.189 | 91 | 281239 | 50.245 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 206813 | 101.022 | ug/l | | 99 |
| 69) o-Xylene | 10.640 | 106 | 101469 | 50.841 | ug/l | | 99 |
| 70) Styrene | 10.653 | 104 | 169703 | 51.907 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 40364 | 49.583 | ug/l | # | 97 |
| 73) Isopropylbenzene | 10.957 | 105 | 269484 | 50.733 | ug/l | | 100 |
| 74) N-amyl acetate | 10.842 | 43 | 137559 | 52.407 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 89027 | 47.827 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 79763m | 48.568 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 59871 | 48.549 | ug/l | | 98 |
| 78) n-propylbenzene | 11.299 | 91 | 312285 | 50.562 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 195630 | 49.107 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 228538 | 51.500 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 24857 | 49.276 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 223811 | 50.661 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 225783 | 50.511 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 231371 | 51.485 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 280578 | 51.122 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 231942 | 51.198 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.963 | 146 | 113146 | 50.272 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.037 | 146 | 111173 | 48.368 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 205858 | 51.804 | ug/l | | 100 |
| 90) Hexachloroethane | 12.536 | 117 | 39823 | 49.895 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 111482 | 49.361 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 21220 | 51.458 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 64421 | 49.662 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 13.719 | 225 | 27425 | 48.408 | ug/l | | 98 |
| 95) Naphthalene | 13.774 | 128 | 239805 | 50.404 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 64950 | 48.525 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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

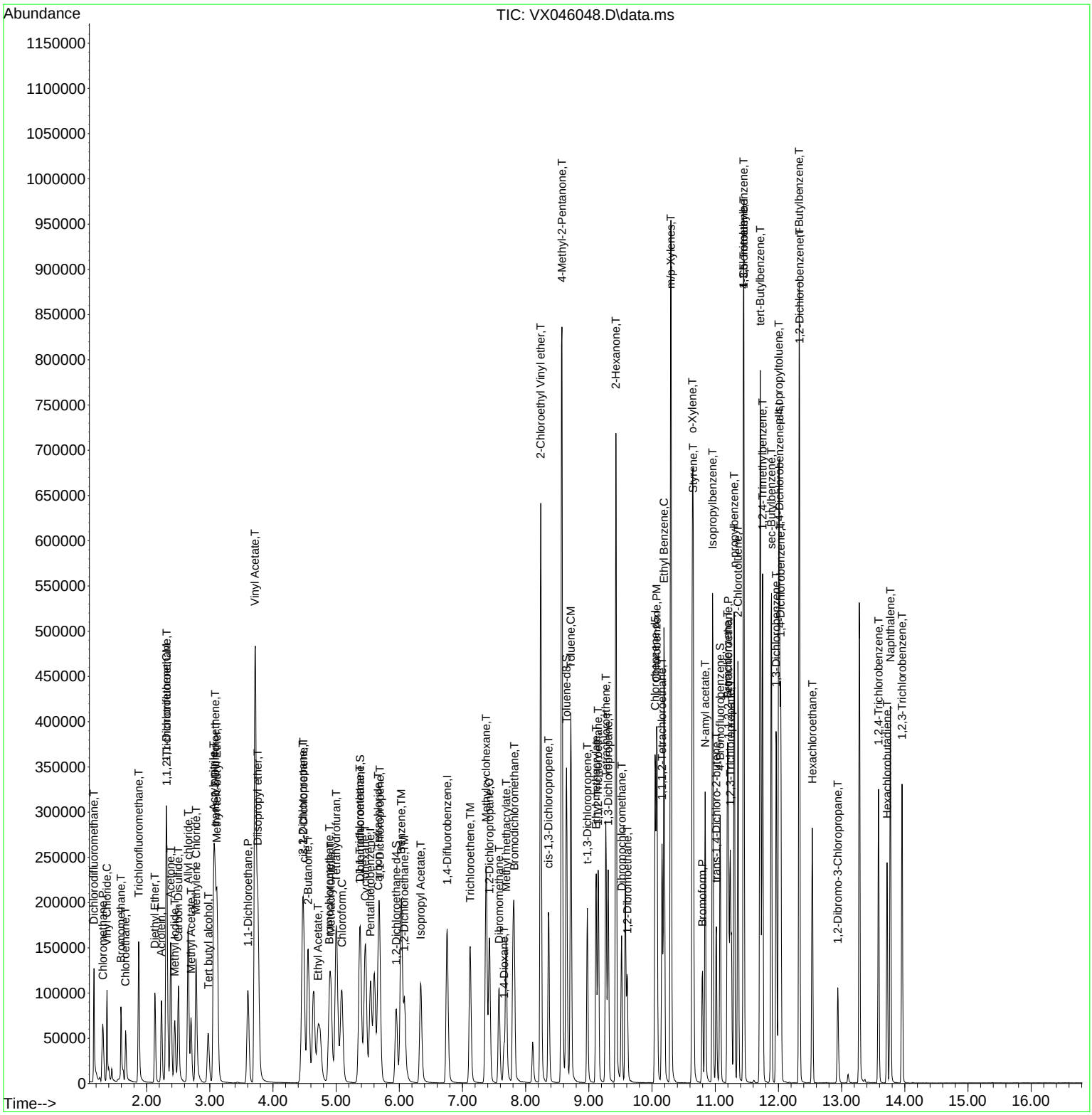
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

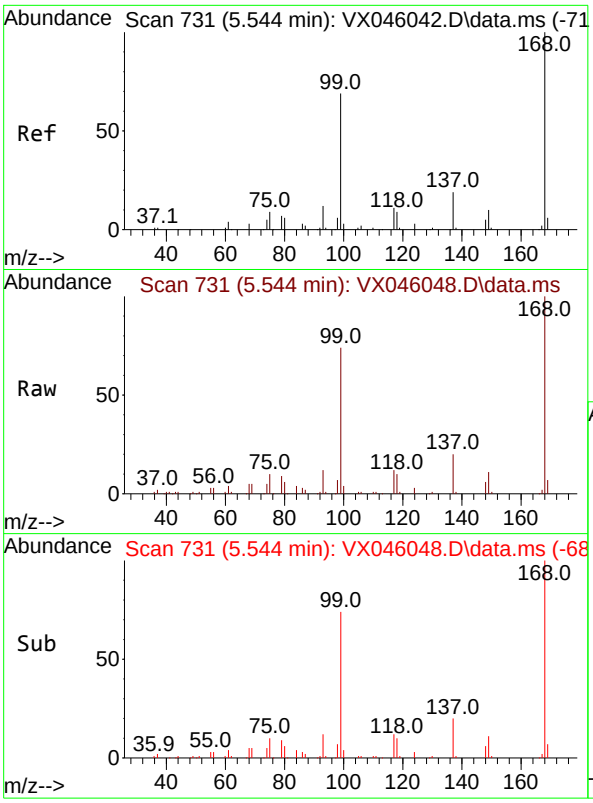
Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

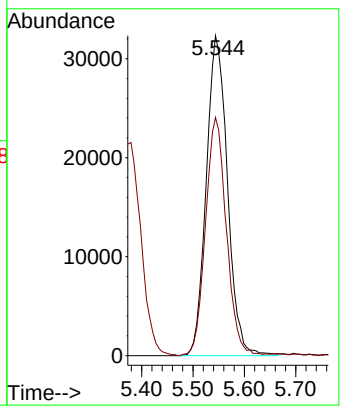





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:168 Resp: 9258

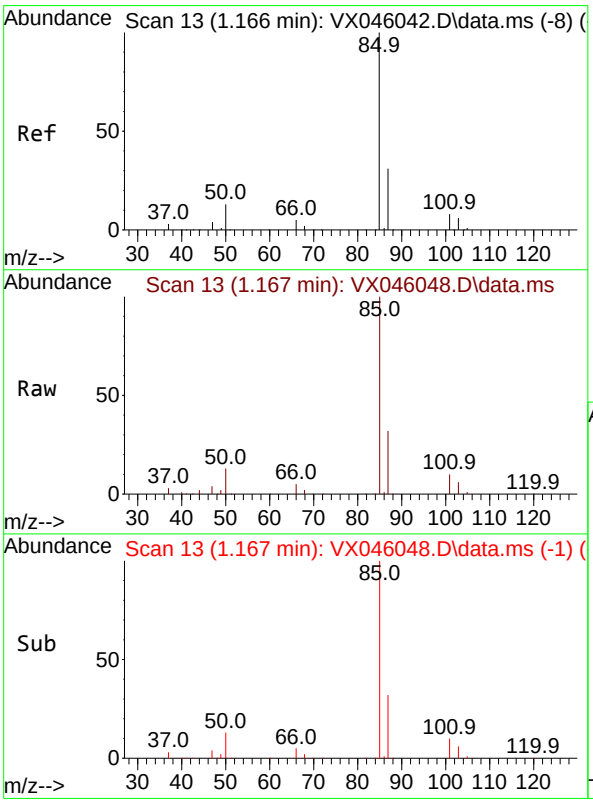
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 74.5 | 54.9 | 82.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

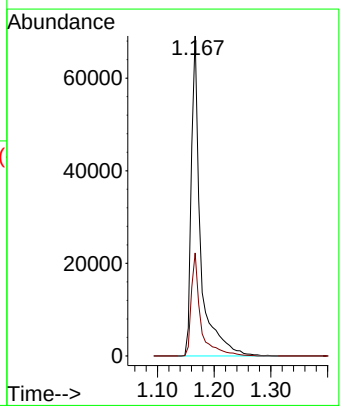
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

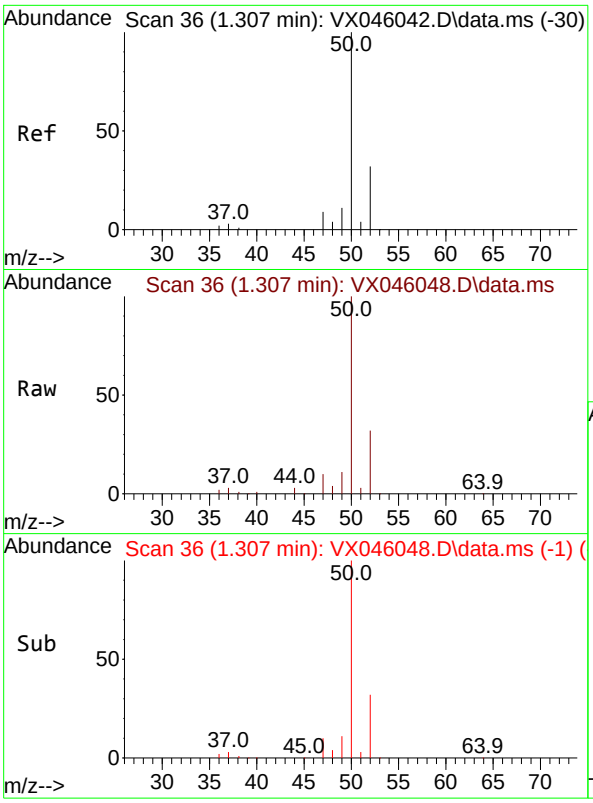



#2
Dichlorodifluoromethane
Concen: 55.594 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 85 Resp: 78783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.2 | 15.7 | 47.1 |

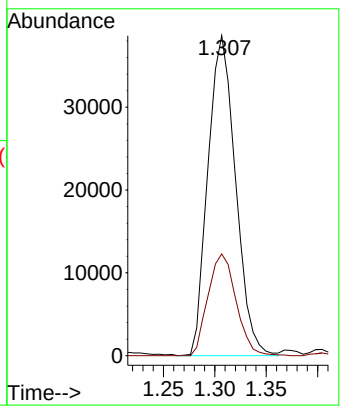





#3
Chloromethane
Concen: 52.592 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 50 Resp: 7227

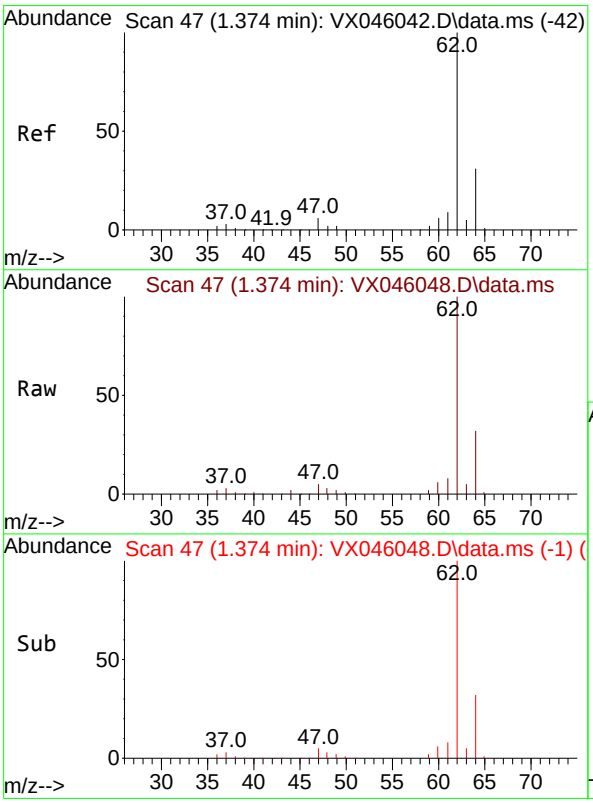
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.8 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

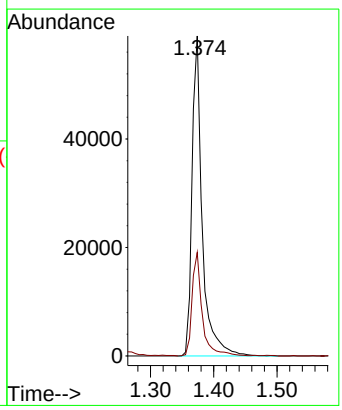
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

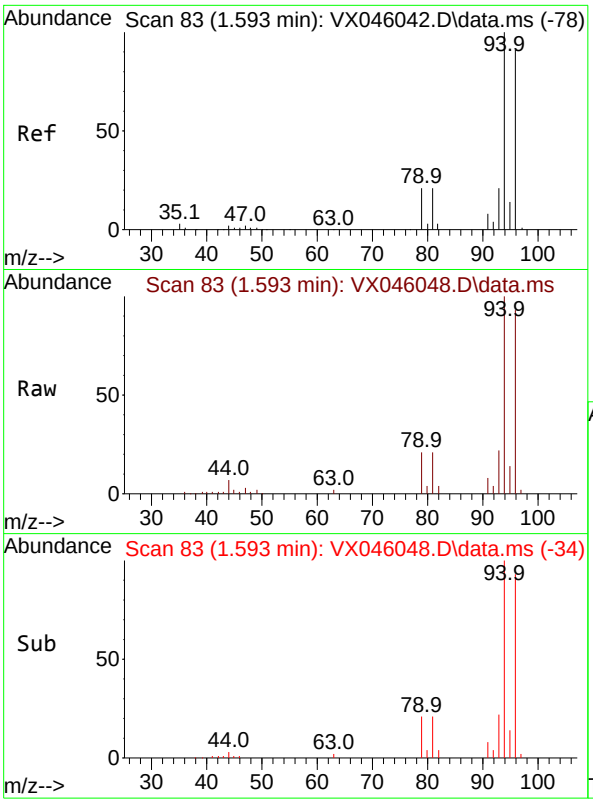



#4
Vinyl Chloride
Concen: 51.598 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 62 Resp: 65994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.3 | 25.2 | 37.8 |

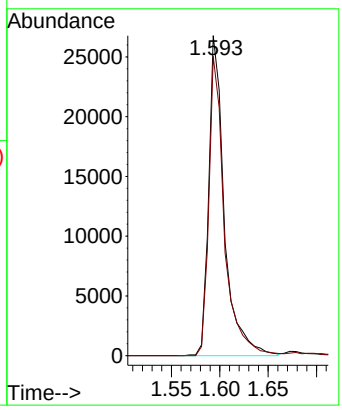





#5
Bromomethane
Concen: 50.627 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 94 Resp: 3003

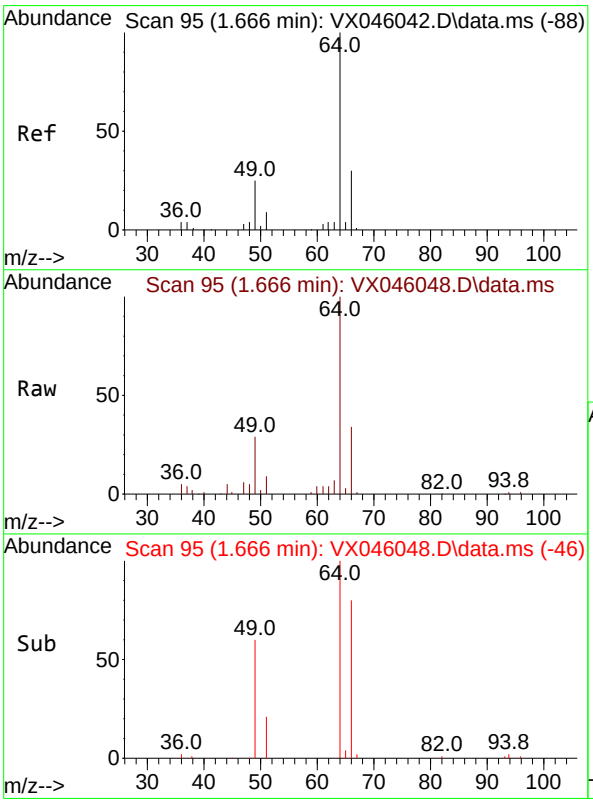
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.5 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
**APPROVED**

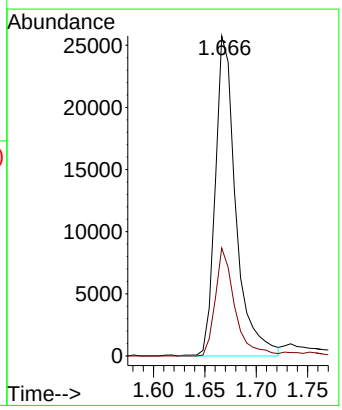
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

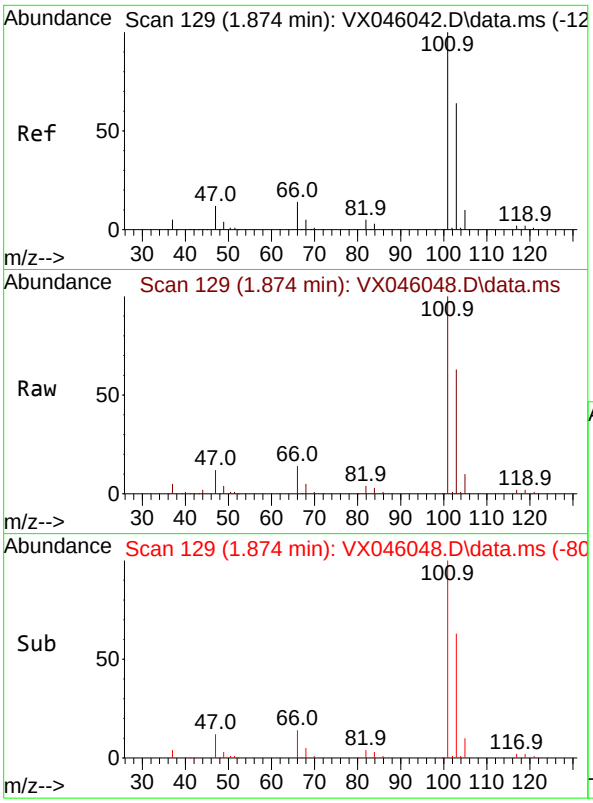



#6
Chloroethane
Concen: 52.271 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 64 Resp: 35690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.7 | 24.3 | 36.5 |

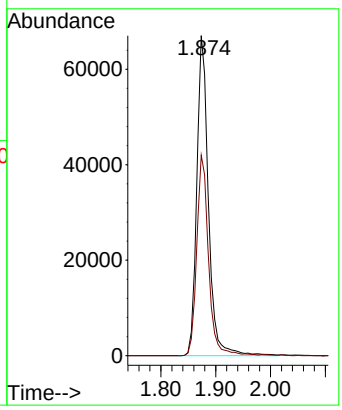





#7
Trichlorofluoromethane
Concen: 52.560 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:101 Resp: 9935

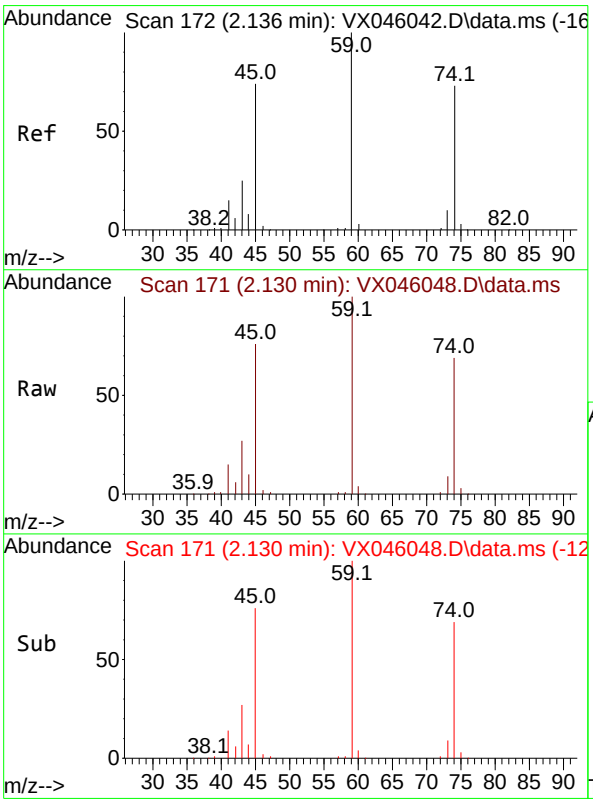
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.6 | 51.0 | 76.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
**APPROVED**

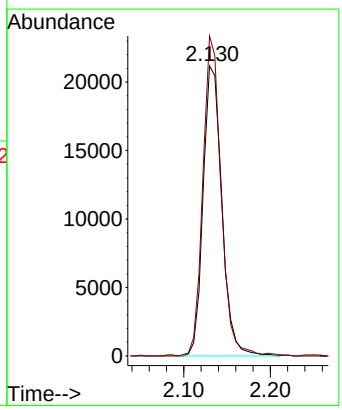
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

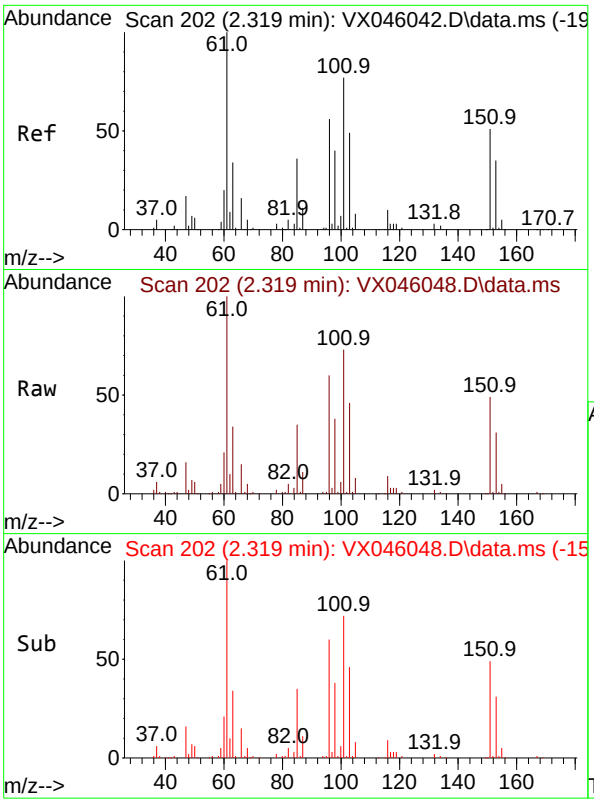



#8
Diethyl Ether
Concen: 49.536 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 74 Resp: 31875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 107.1 | 54.9 | 164.8 |

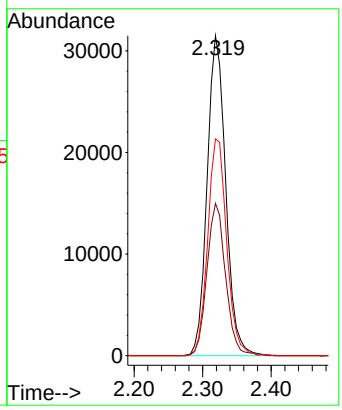





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.822 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:101 Resp: 5945

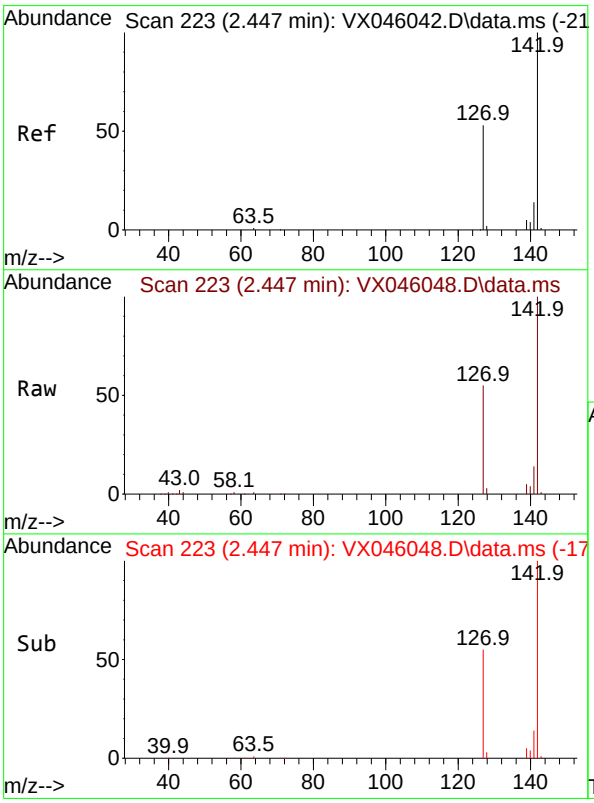
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.8 | 38.6 | 58.0 |
| 151 | 69.4 | 55.2 | 82.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
**APPROVED**

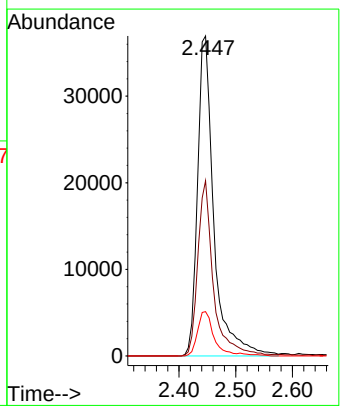
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

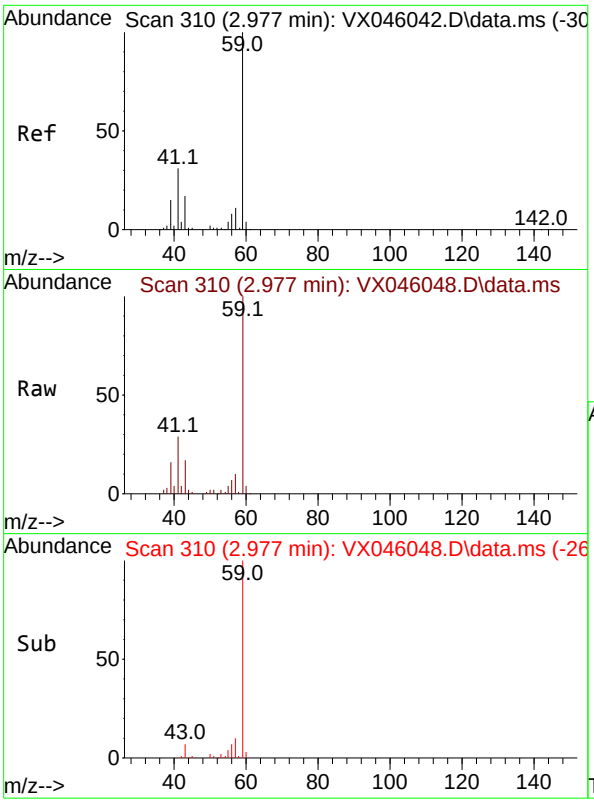



#10
Methyl Iodide
Concen: 53.419 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:142 Resp: 73940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 52.9 | 41.7 | 62.5 |
| 141 | 14.4 | 11.5 | 17.3 |






#11
Tert butyl alcohol
Concen: 252.025 ug/l
RT: 2.977 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

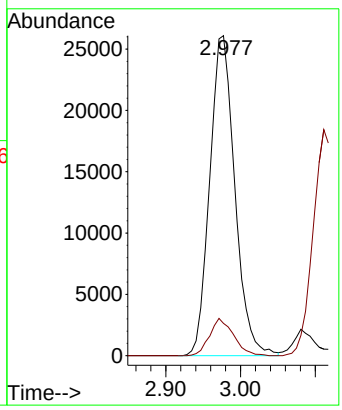
Tgt Ion: 59 Resp: 6106

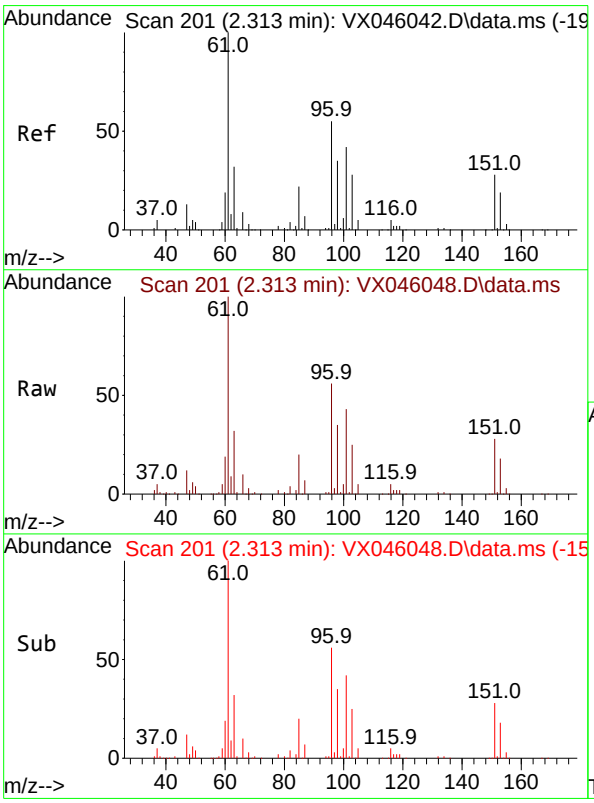
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.1 | 8.6 | 12.8 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

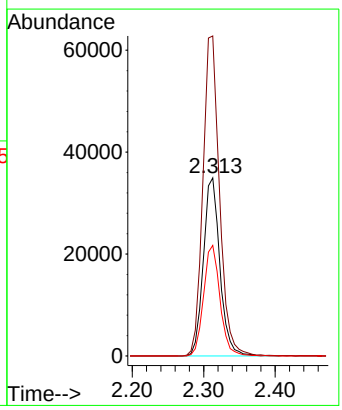


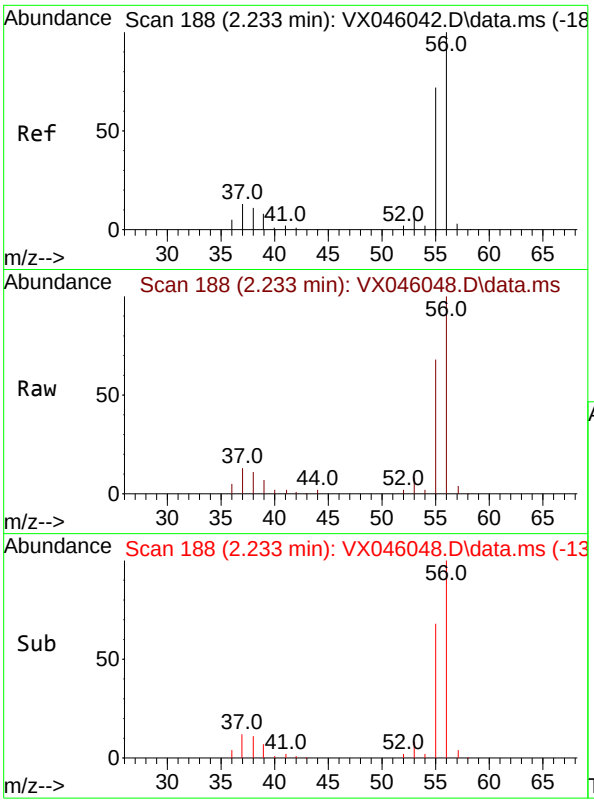




#12
1,1-Dichloroethene
Concen: 51.097 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 96 Resp: 56097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 179.7 | 146.2 | 219.2 |
| 98 | 62.1 | 51.0 | 76.6 |

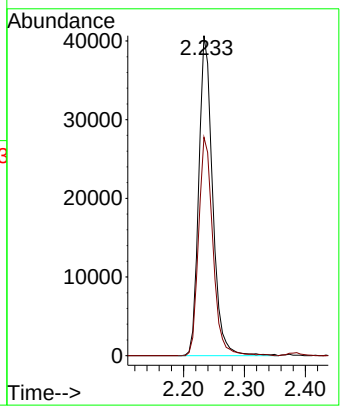





#13
Acrolein
Concen: 232.505 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 56 Resp: 6415

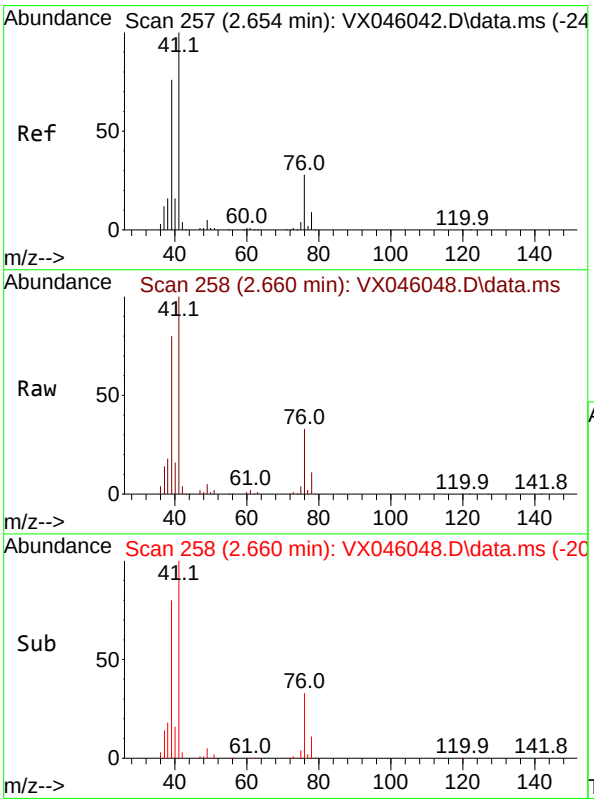
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.8 | 56.2 | 84.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

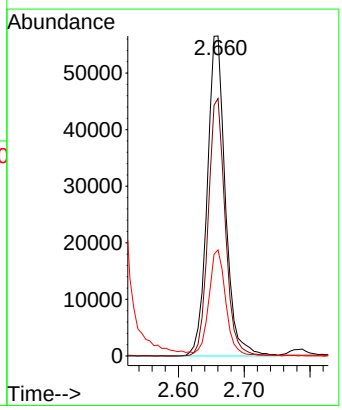
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

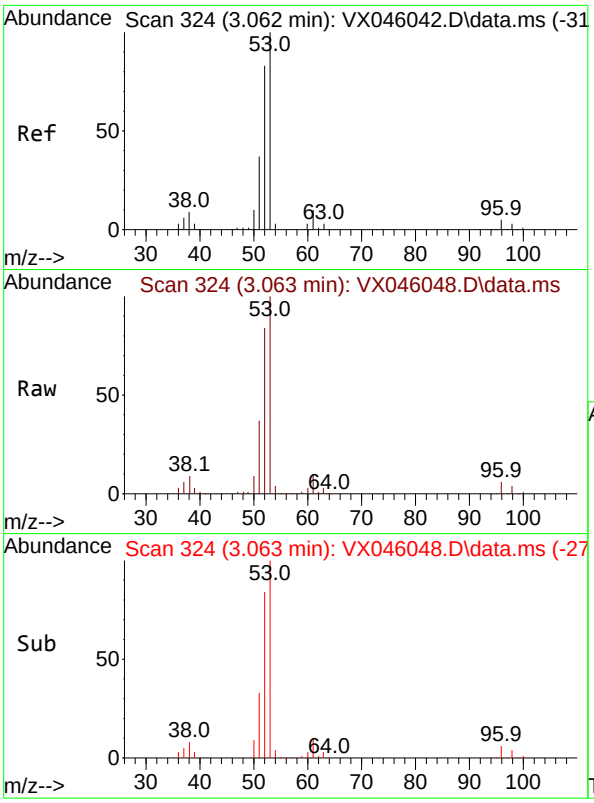



#14
Allyl chloride
Concen: 51.833 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 41 Resp: 108757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 75.6 | 60.6 | 90.8 |
| 76 | 31.1 | 24.9 | 37.3 |

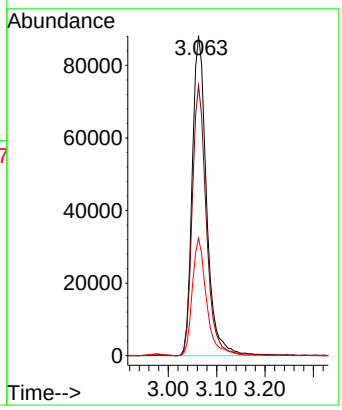





#15
Acrylonitrile
Concen: 262.412 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 53 Resp: 18180

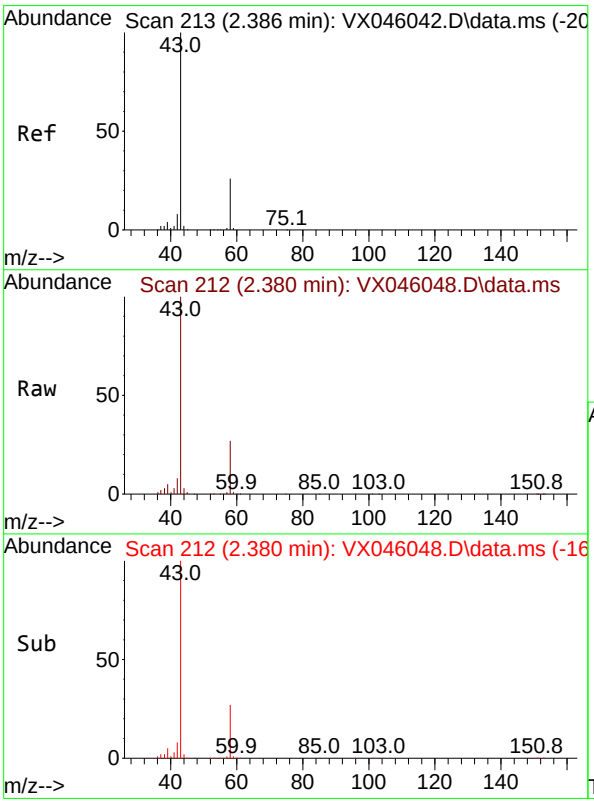
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.9 | 65.3 | 97.9 |
| 51 | 36.5 | 29.8 | 44.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
**APPROVED**

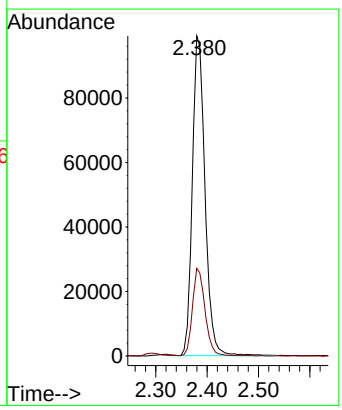
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

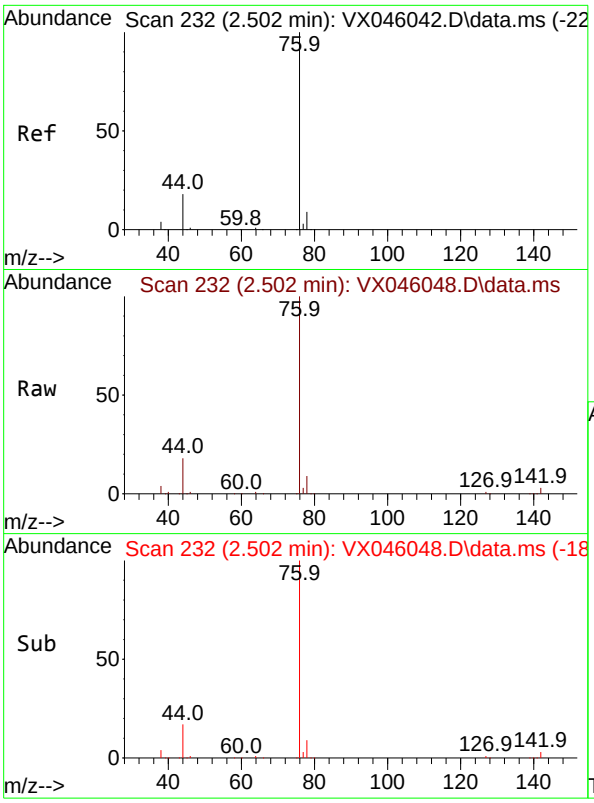



#16
Acetone
Concen: 245.518 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 169923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.3 | 21.2 | 31.8 |






#17
Carbon Disulfide
Concen: 50.981 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

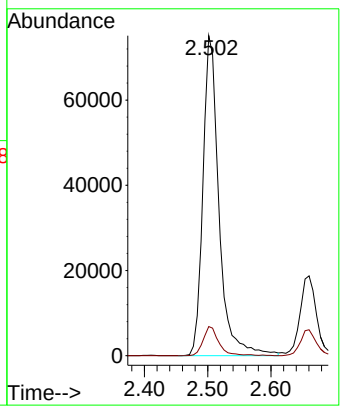
Tgt Ion: 76 Resp: 13269

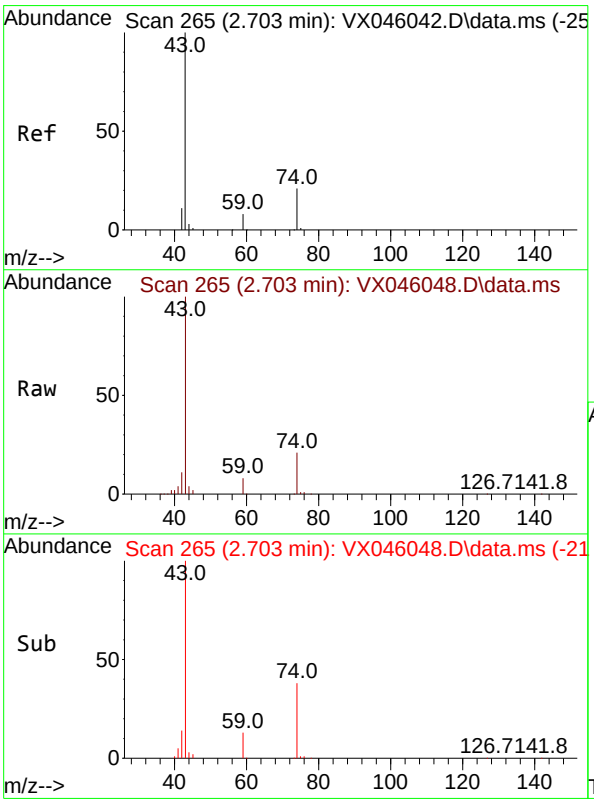
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.0 | 10.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

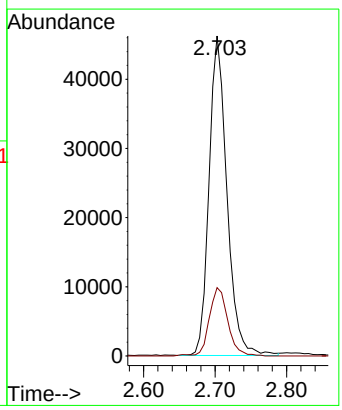


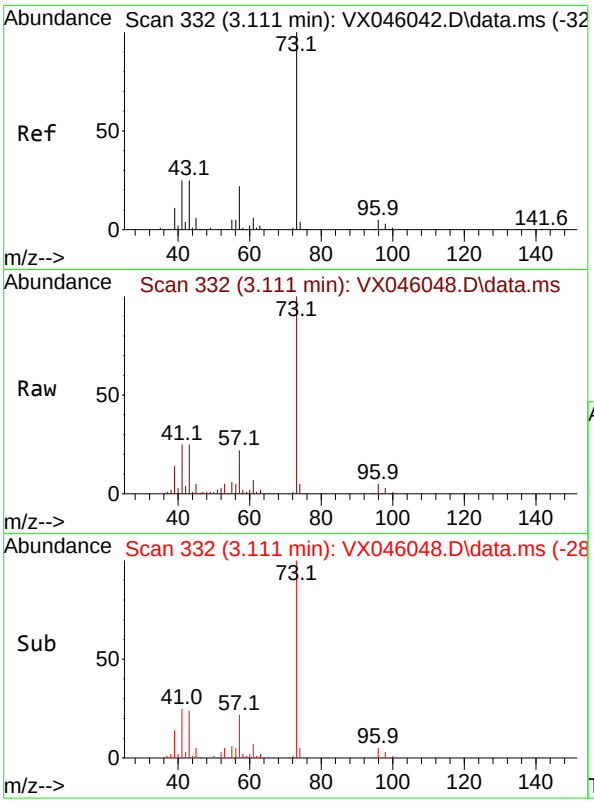




#18
Methyl Acetate
Concen: 49.968 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 80251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 22.1 | 16.7 | 25.1 |

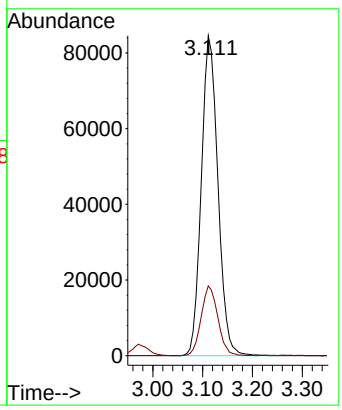





#19
Methyl tert-butyl Ether
Concen: 50.777 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 73 Resp: 19544

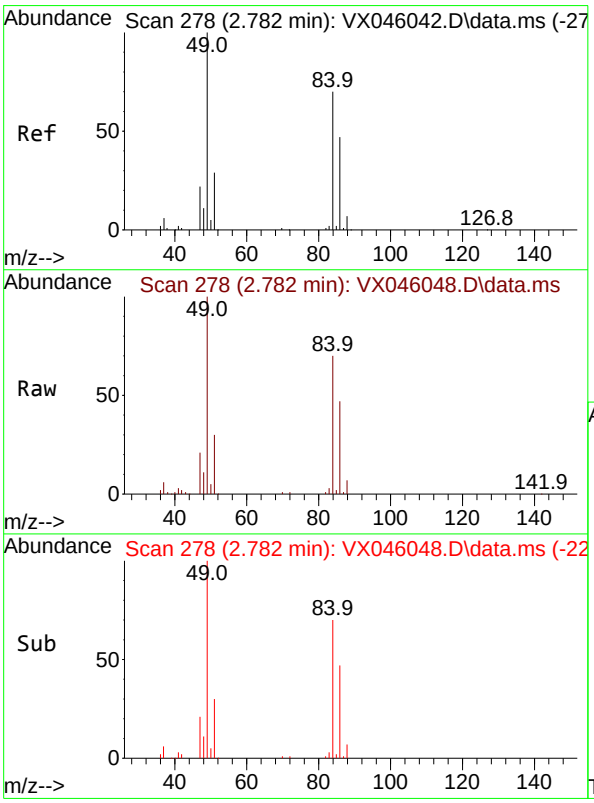
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.8 | 17.7 | 26.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

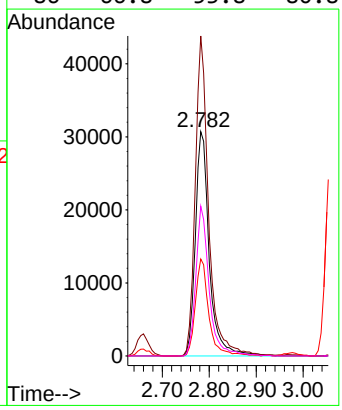
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

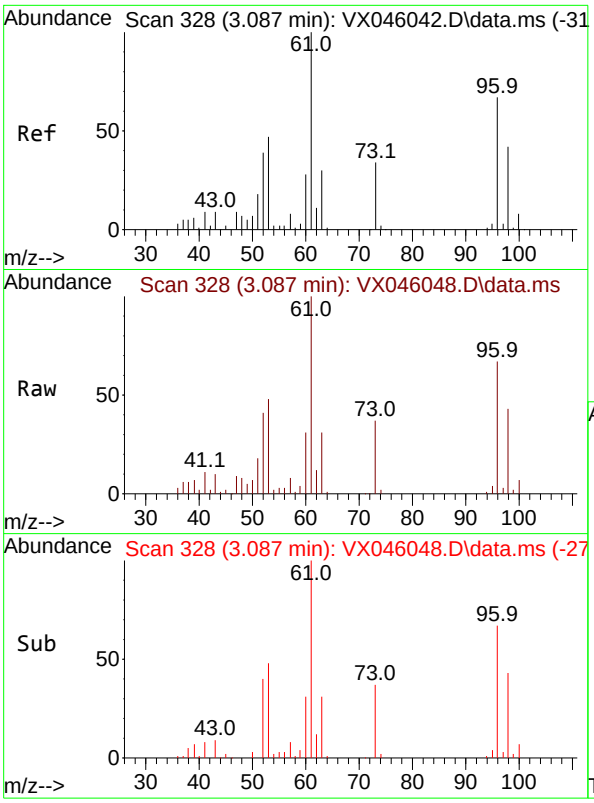



#20
Methylene Chloride
Concen: 47.779 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 84 Resp: 63369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 142.7 | 113.9 | 170.9 |
| 51 | 43.3 | 33.5 | 50.3 |
| 86 | 66.8 | 53.8 | 80.8 |

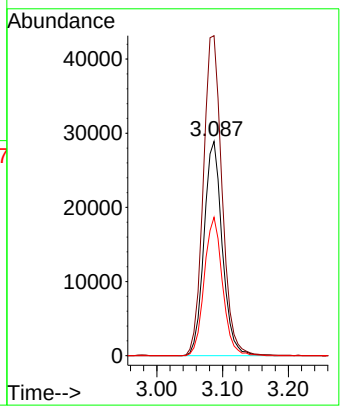





#21
trans-1,2-Dichloroethene
Concen: 50.513 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 96 Resp: 5577

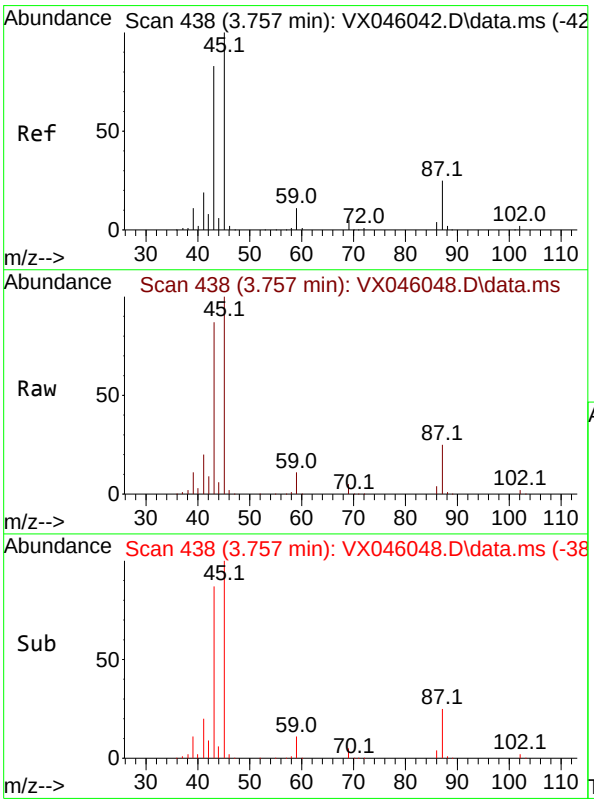
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 149.3 | 119.5 | 179.3 |
| 98 | 64.6 | 50.0 | 75.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
**APPROVED**

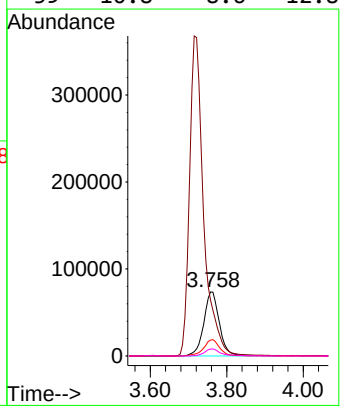
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

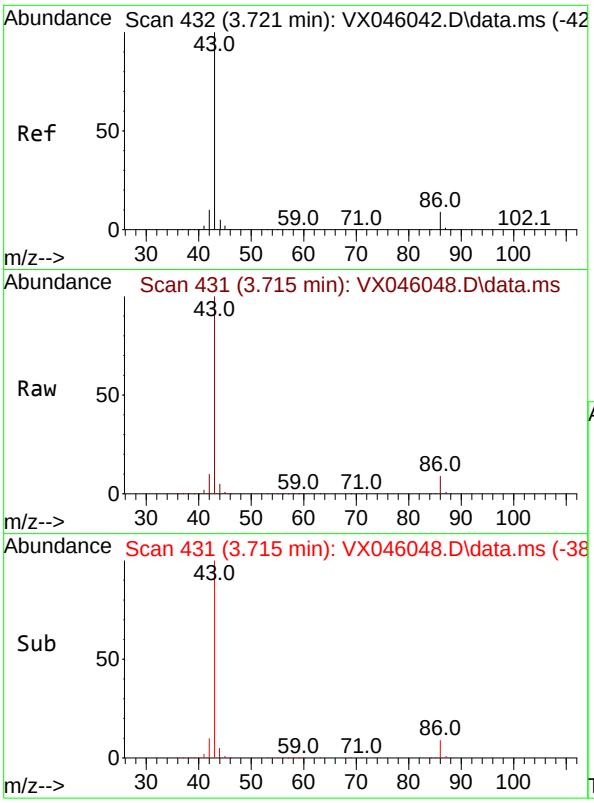



#22
Diisopropyl ether
Concen: 51.800 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 45 Resp: 209946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 86.9 | 66.6 | 100.0 |
| 87 | 24.8 | 19.8 | 29.6 |
| 59 | 10.8 | 8.6 | 12.8 |






#23
Vinyl Acetate
Concen: 265.585 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

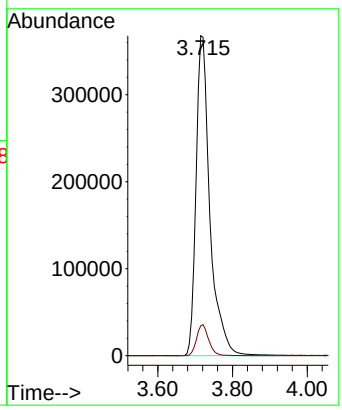
Tgt Ion: 43 Resp: 94674

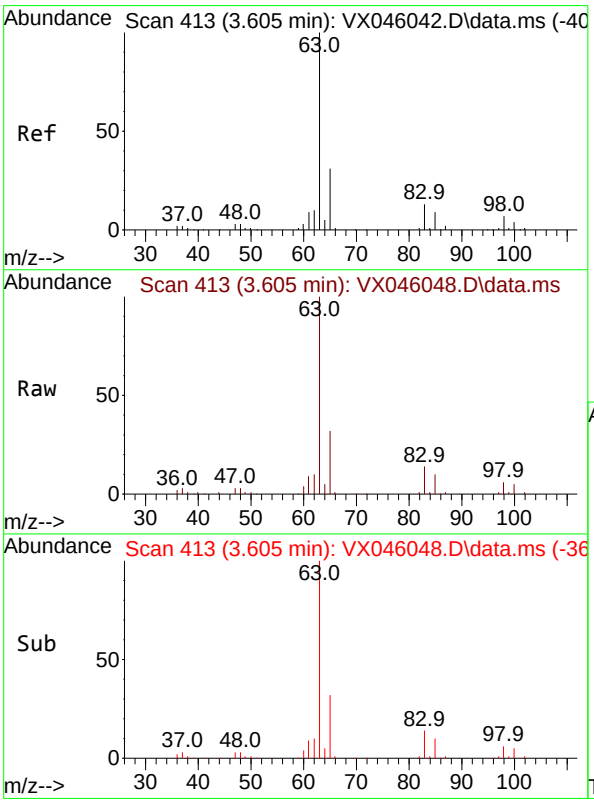
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.4 | 7.5 | 11.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

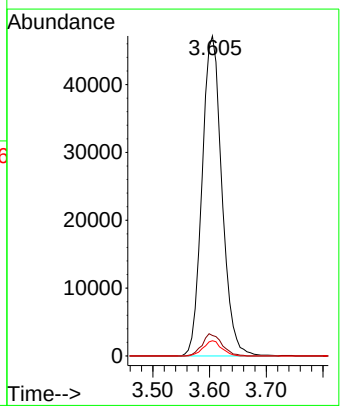


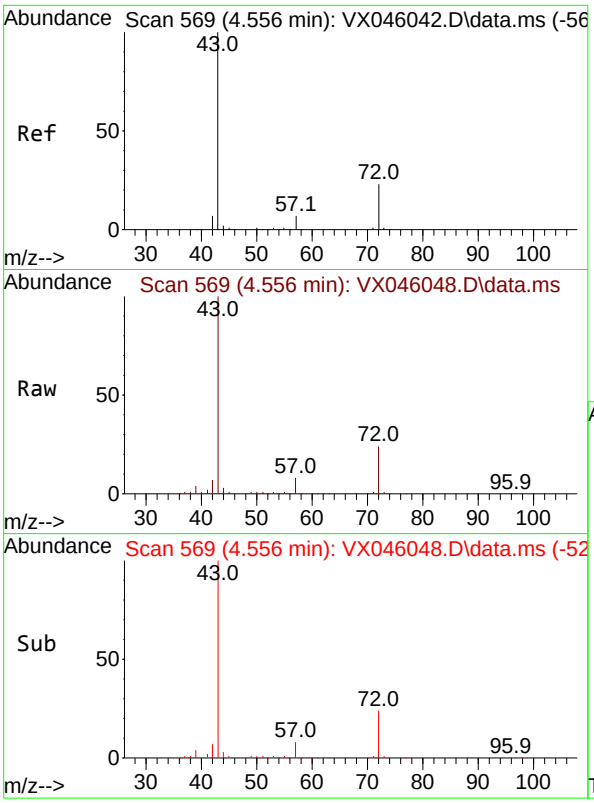




#24
1,1-Dichloroethane
Concen: 50.825 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 63 Resp: 114733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.4 | 3.6 | 10.8 |
| 100 | 4.8 | 2.1 | 6.3 |






#25
2-Butanone
Concen: 257.110 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

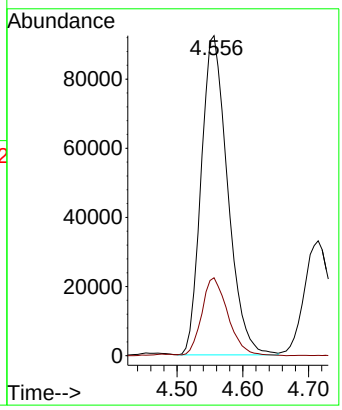
Tgt Ion: 43 Resp: 25833

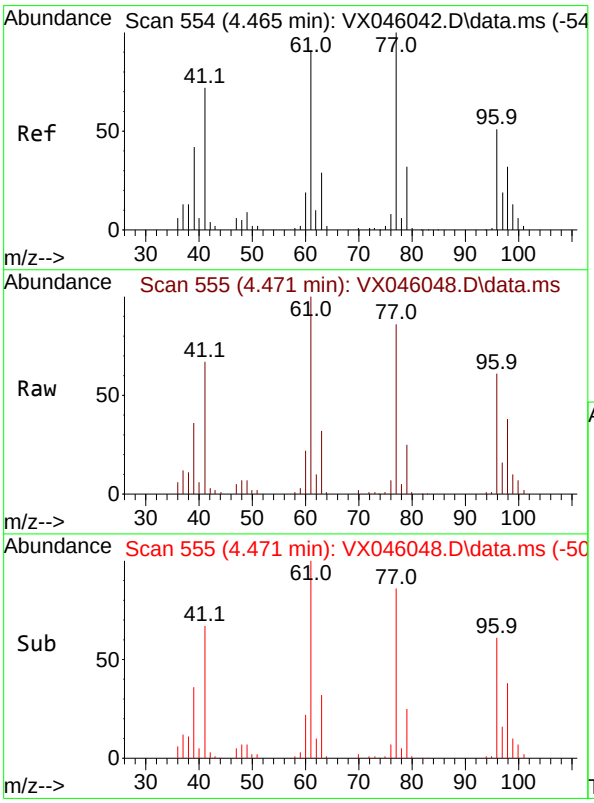
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.3 | 18.4 | 27.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

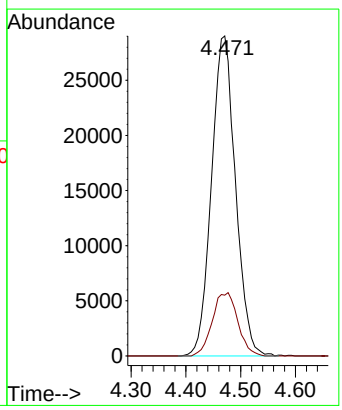


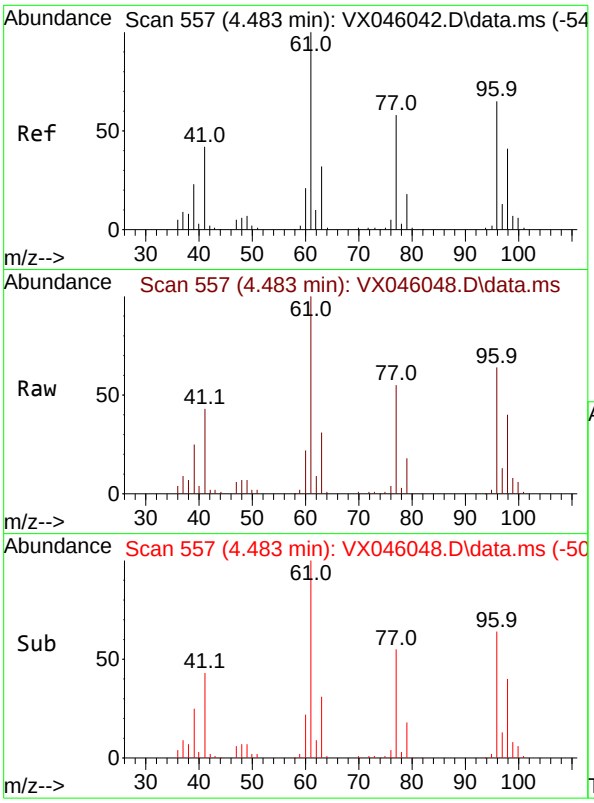




#26
2,2-Dichloropropane
Concen: 49.934 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 77 Resp: 88229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.0 | 10.5 | 31.5 |

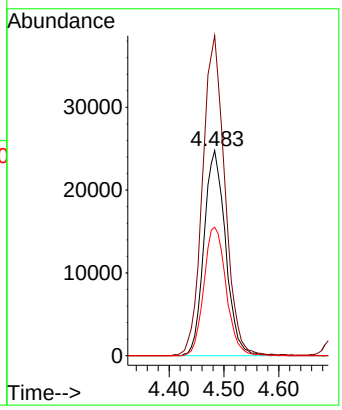





#27
cis-1,2-Dichloroethene
Concen: 50.956 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 96 Resp: 6772

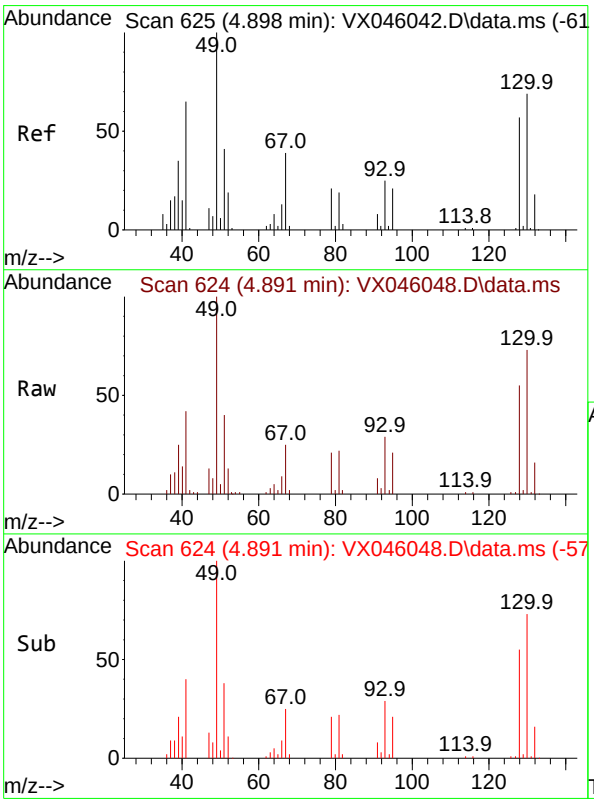
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 160.7 | 0.0 | 322.8 |
| 98 | 64.4 | 0.0 | 129.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
**APPROVED**

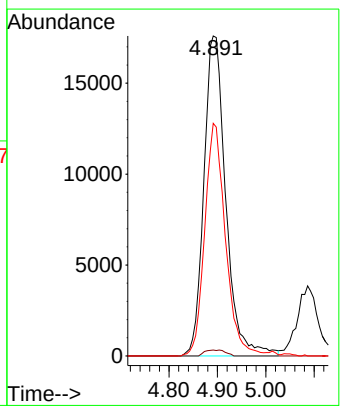
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

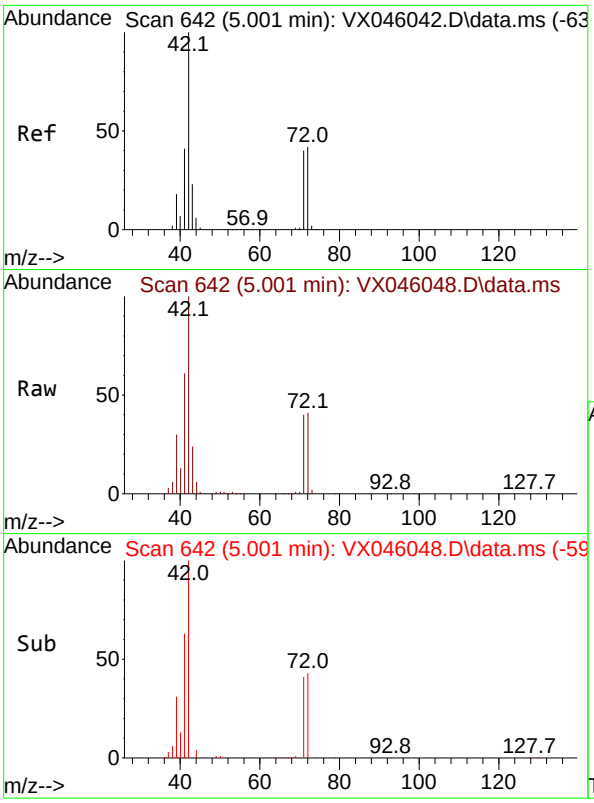



#28
Bromochloromethane
Concen: 50.975 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 49 Resp: 55390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 4.0 |
| 130 | 68.7 | 56.2 | 84.2 |






#29
Tetrahydrofuran
Concen: 259.958 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 42 Resp: 16367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.0 | 33.7 | 50.5 |
| 71 | 38.5 | 31.4 | 47.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
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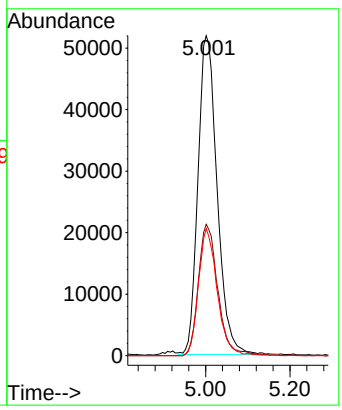
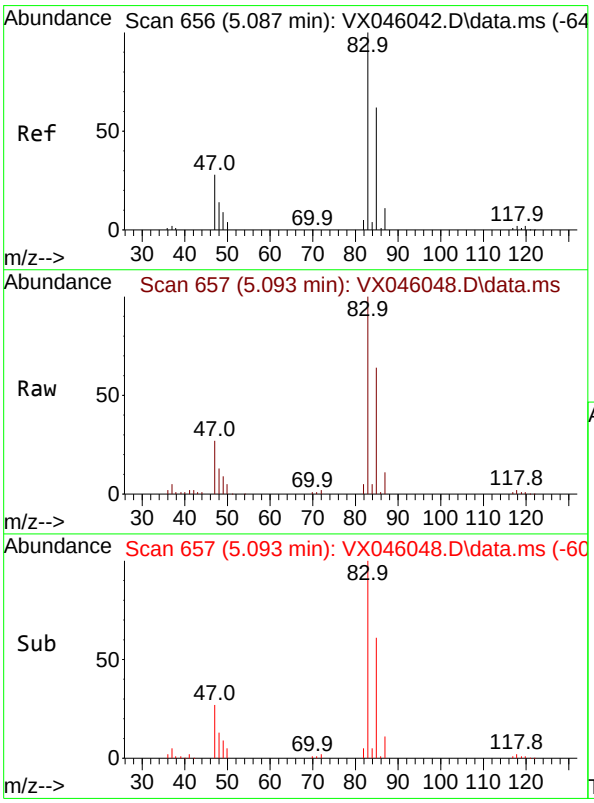
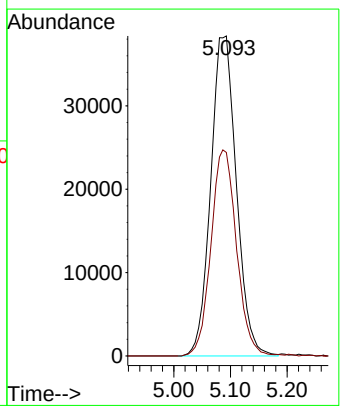


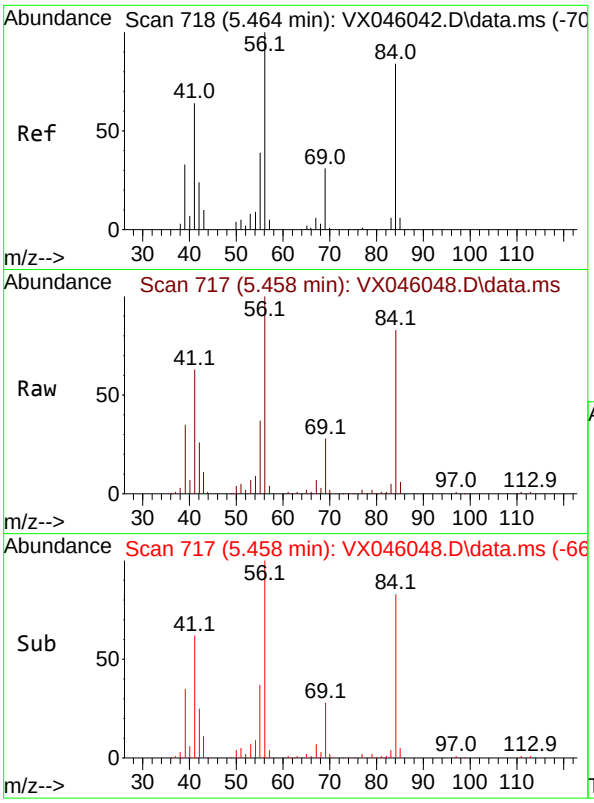




#30
Chloroform
Concen: 51.332 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 83 Resp: 120782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.6 | 49.3 | 73.9 |

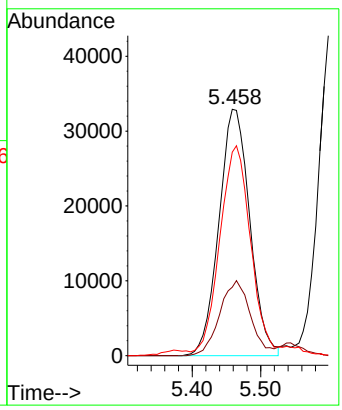





#31
Cyclohexane
Concen: 50.147 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 56 Resp: 10315

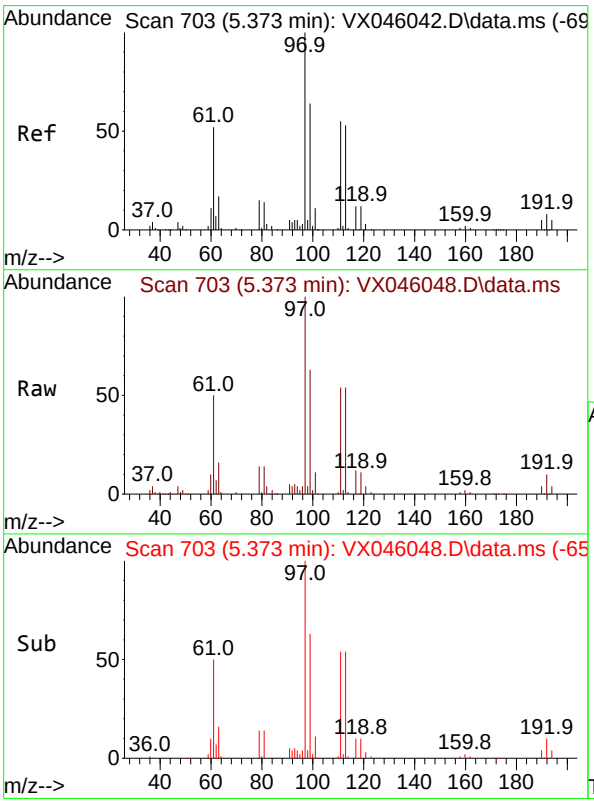
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 27.8 | 24.4 | 36.6 |
| 84 | 80.5 | 66.9 | 100.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

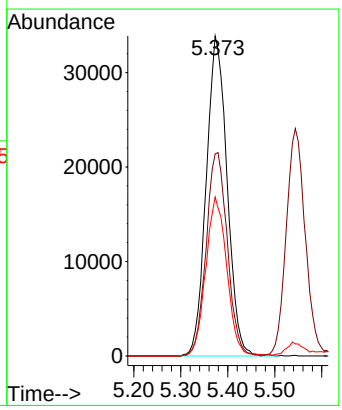
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

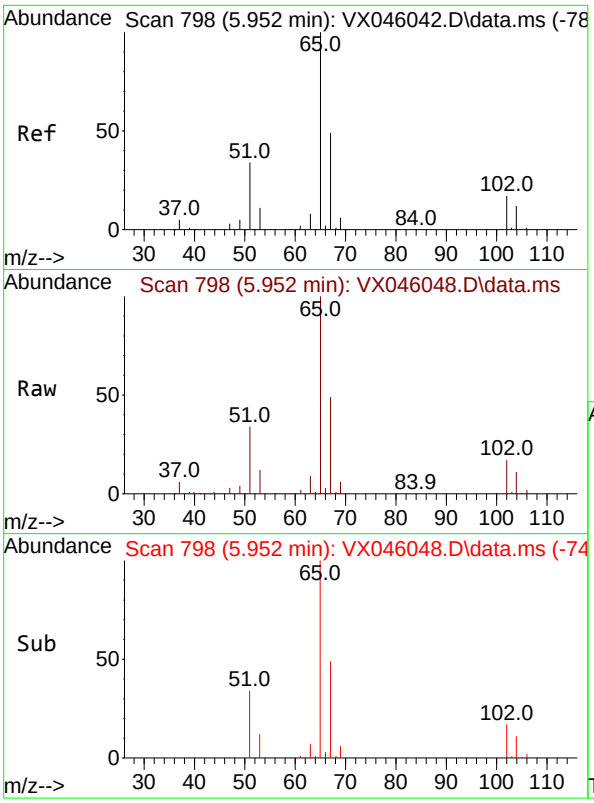



#32
1,1,1-Trichloroethane
Concen: 51.108 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 97 Resp: 104243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.8 | 77.6 |
| 61 | 50.2 | 40.1 | 60.1 |

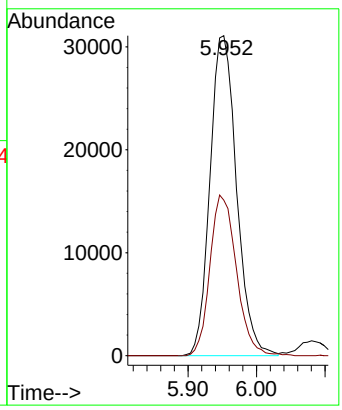





#33
1,2-Dichloroethane-d4
Concen: 48.509 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 65 Resp: 8373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.0 | 0.0 | 99.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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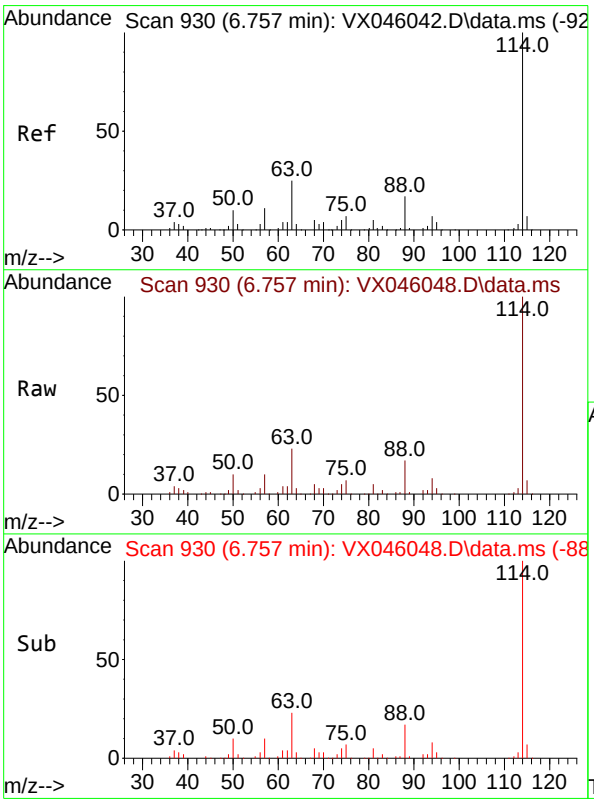
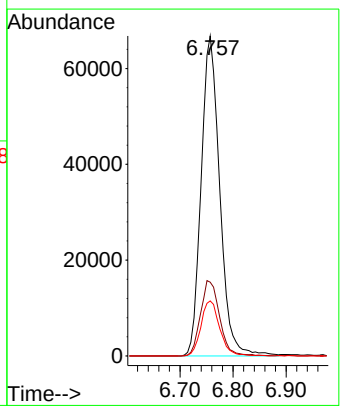
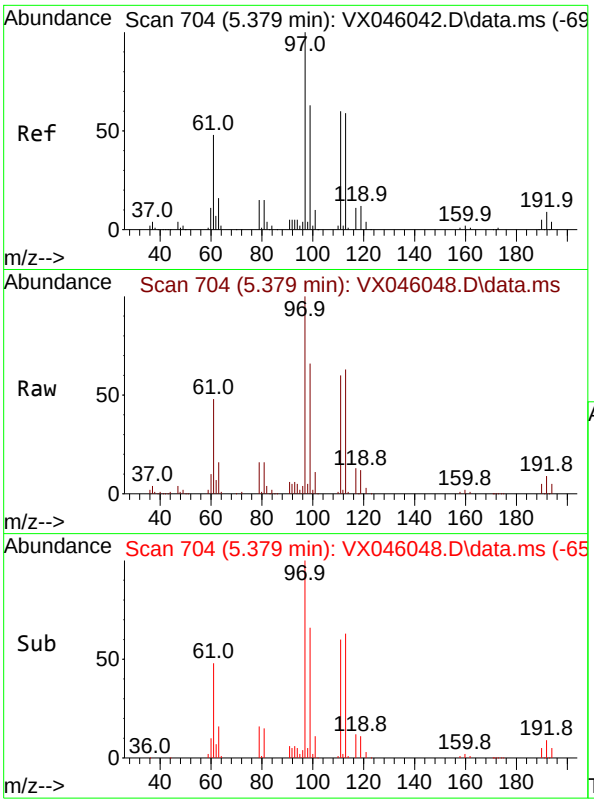



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:114 Resp: 162651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.1 | 0.0 | 49.2 |
| 88 | 17.2 | 0.0 | 33.6 |

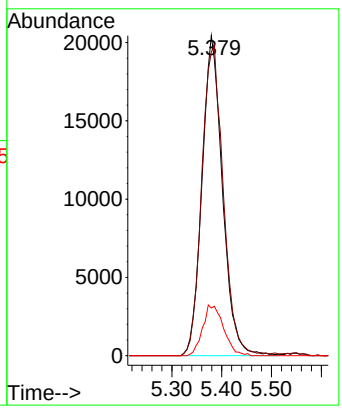





#35
Dibromofluoromethane
Concen: 49.683 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:113 Resp: 5819

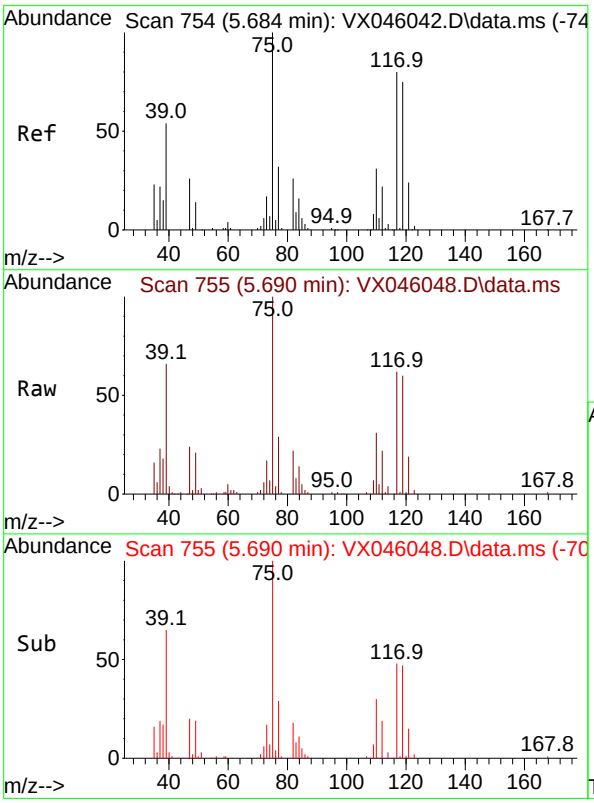
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.1 | 83.1 | 124.7 |
| 192 | 16.2 | 13.3 | 19.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

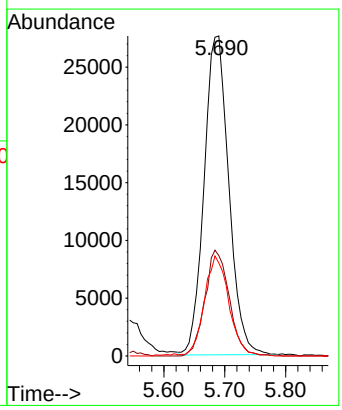
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

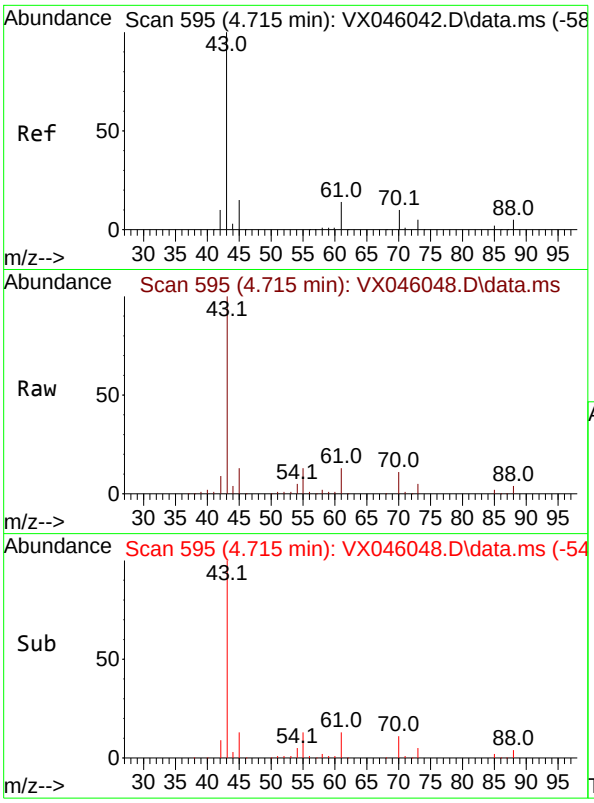



#36
1,1-Dichloropropene
Concen: 49.521 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 77931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 32.7 | 16.3 | 48.9 |
| 77 | 31.1 | 24.3 | 36.5 |

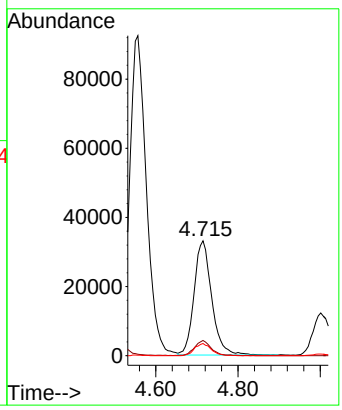





#37
Ethyl Acetate
Concen: 50.714 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 9860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 12.6 | 10.3 | 15.5 |
| 70 | 10.0 | 7.9 | 11.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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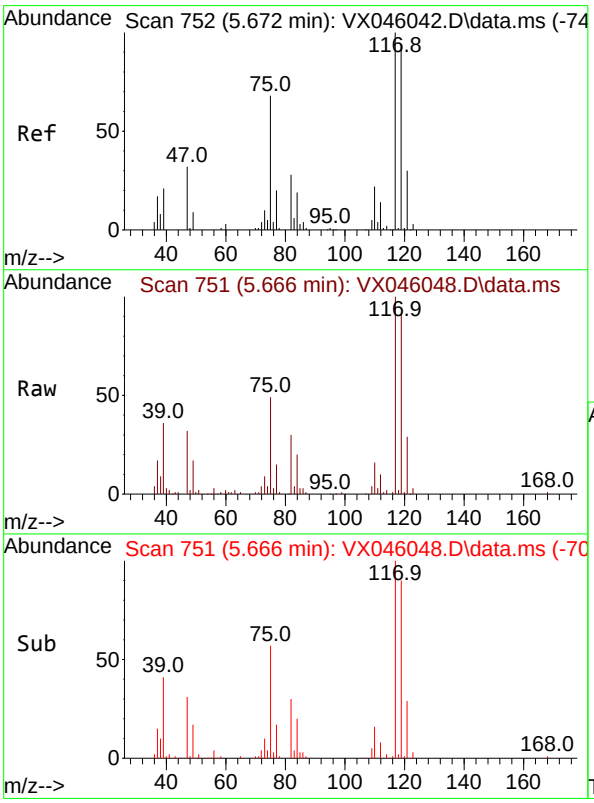
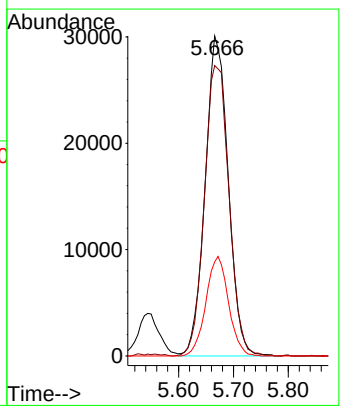
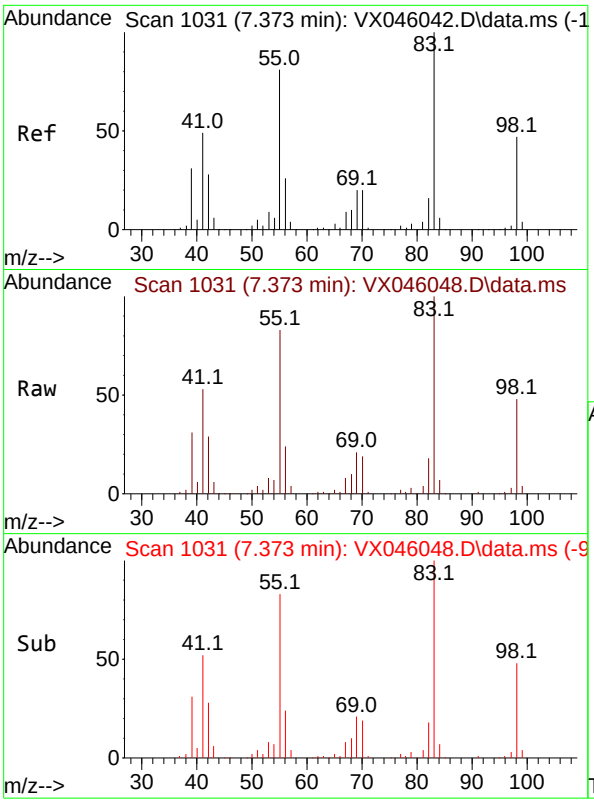



#38
Carbon Tetrachloride
Concen: 49.825 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:117 Resp: 88100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 90.7 | 75.2 | 112.8 |
| 121 | 29.4 | 24.2 | 36.4 |

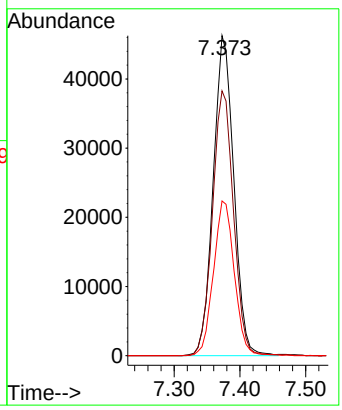





#39
Methylcyclohexane
Concen: 49.757 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 83 Resp: 10080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 82.7 | 64.7 | 97.1 |
| 98 | 48.3 | 37.4 | 56.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
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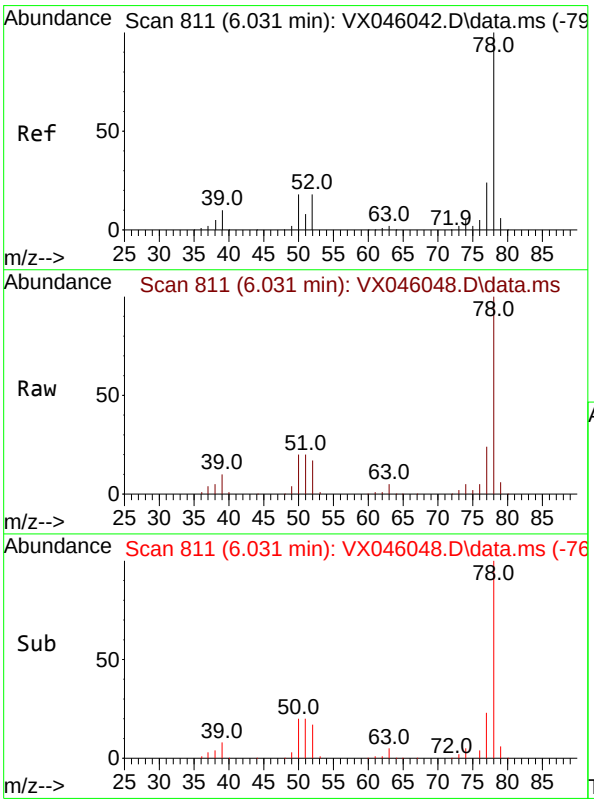
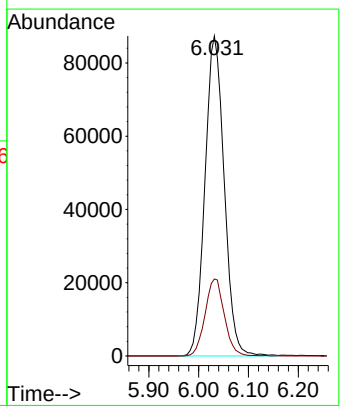
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

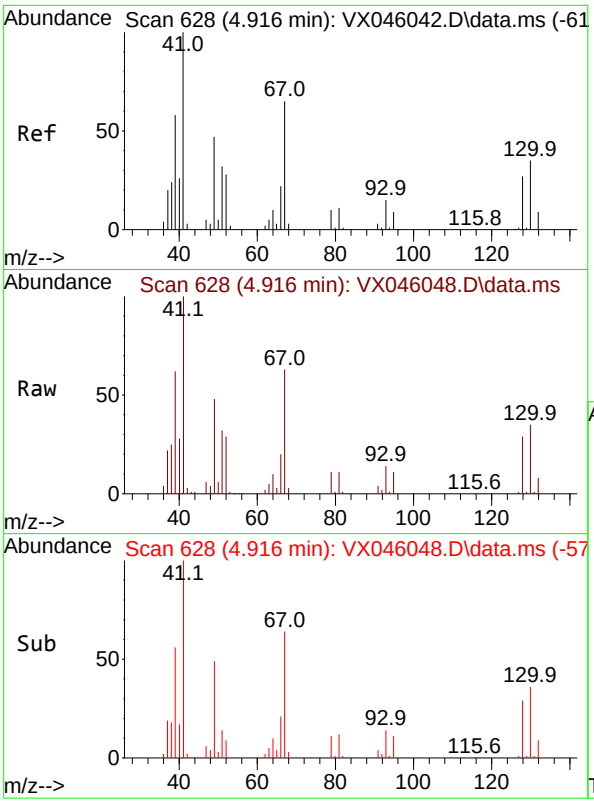



#40
Benzene
Concen: 50.759 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 78 Resp: 233977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 19.0 | 28.4 |

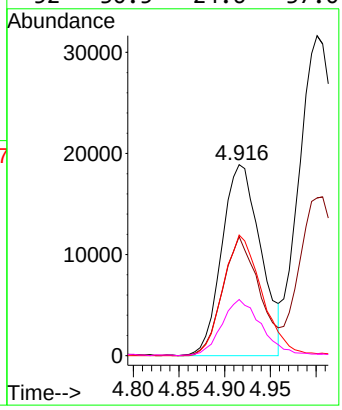





#41
Methacrylonitrile
Concen: 55.076 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 41 Resp: 5601

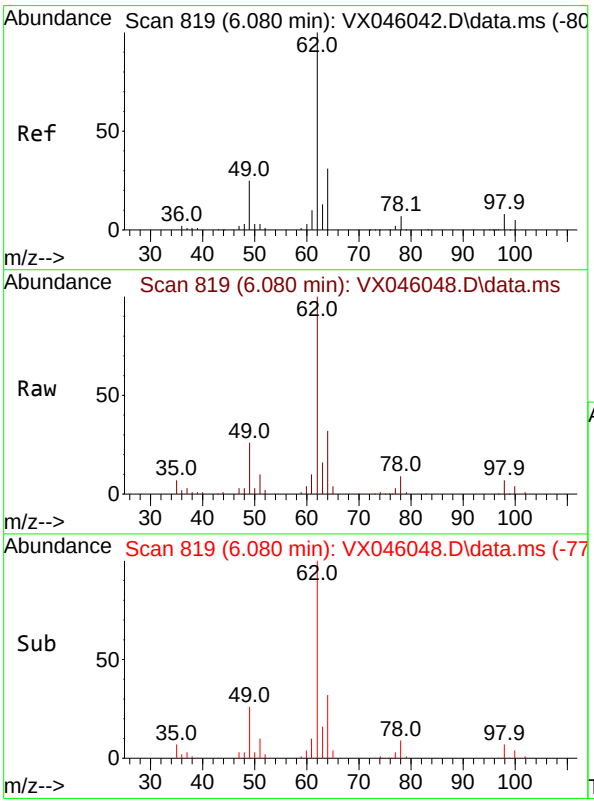
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 58.7 | 47.2 | 70.8 |
| 67 | 63.7 | 50.7 | 76.1 |
| 52 | 30.5 | 24.6 | 37.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
**APPROVED**

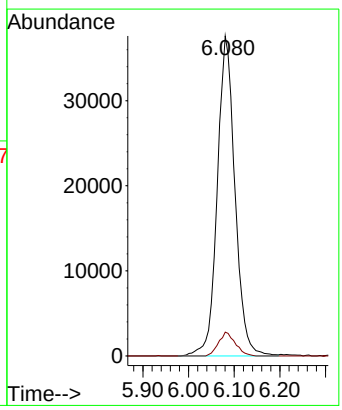
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

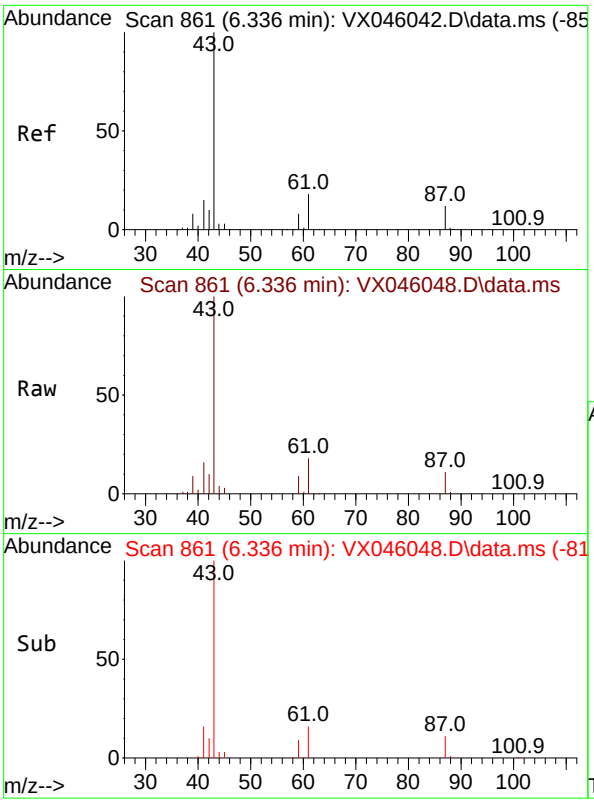



#42
1,2-Dichloroethane
Concen: 50.861 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 62 Resp: 101185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.1 | 0.0 | 15.2 |






#43
Isopropyl Acetate
Concen: 52.195 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

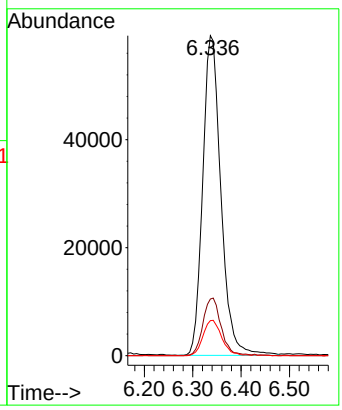
Tgt Ion: 43 Resp: 15481

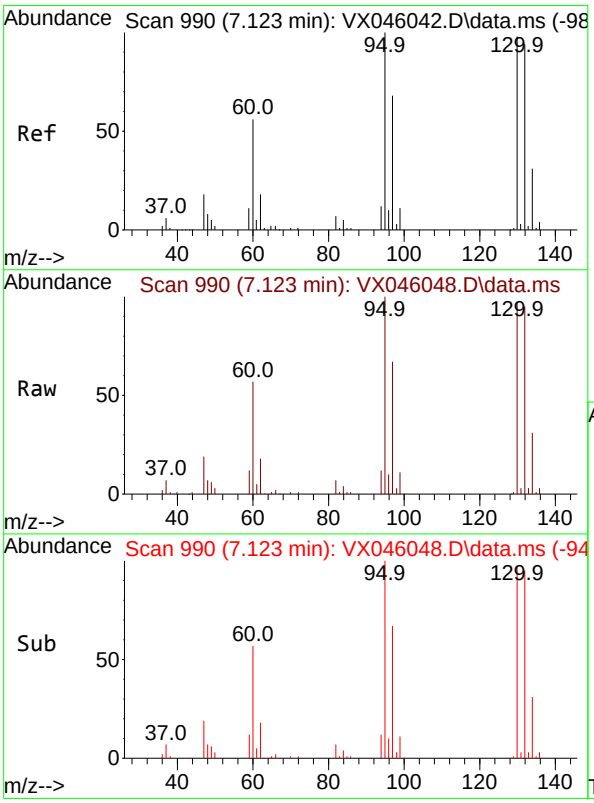
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 17.9 | 14.3 | 21.5 |
| 87 | 11.4 | 9.5 | 14.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

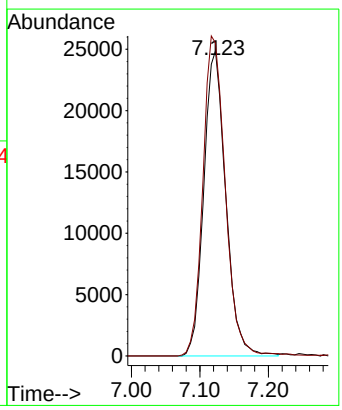


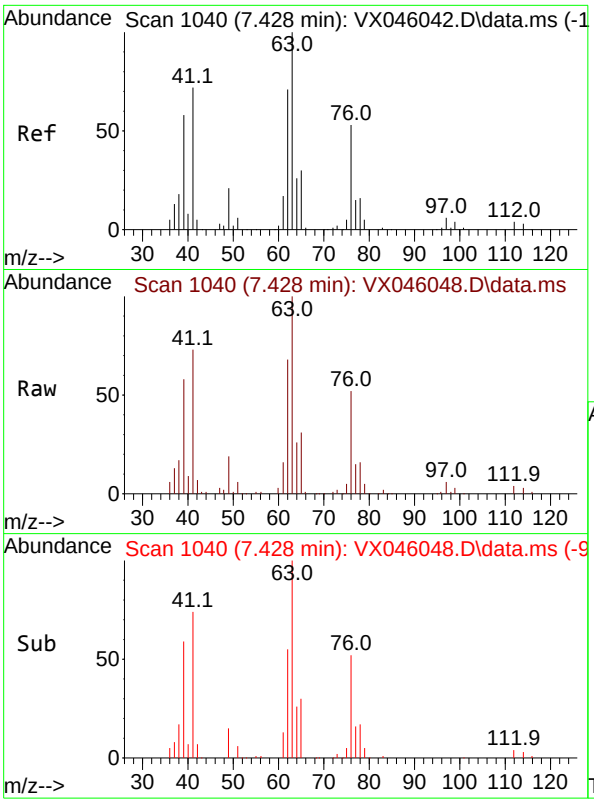




#44
Trichloroethene
Concen: 50.018 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:130 Resp: 55491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.6 | 0.0 | 204.2 |

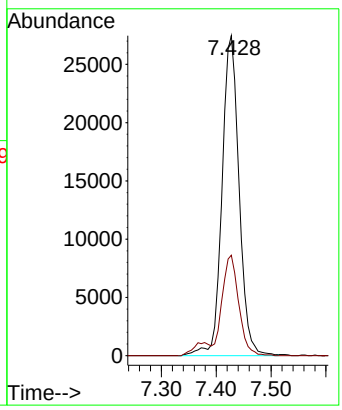





#45
1,2-Dichloropropane
Concen: 51.983 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 63 Resp: 5958

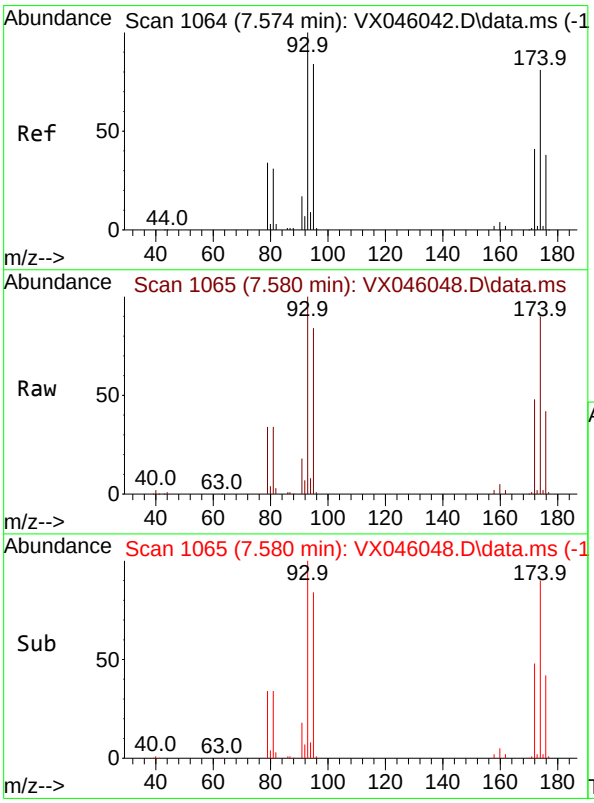
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.4 | 24.1 | 36.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

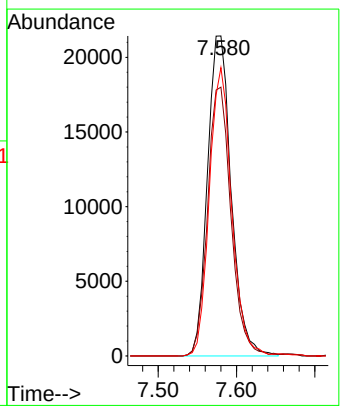
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

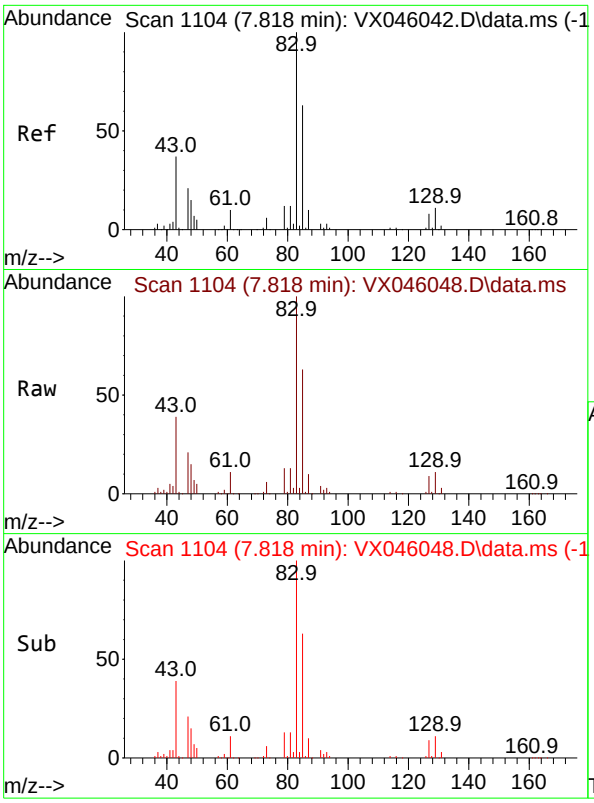



#46
Dibromomethane
Concen: 49.978 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 93 Resp: 45181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.0 | 65.6 | 98.4 |
| 174 | 84.8 | 68.2 | 102.2 |

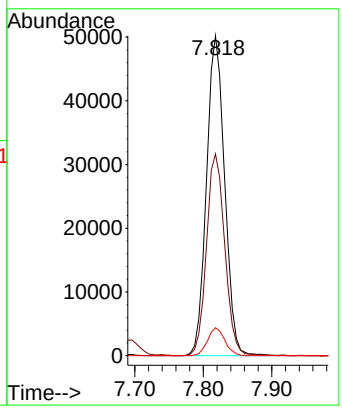





#47
Bromodichloromethane
Concen: 51.889 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 83 Resp: 9238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.0 | 50.5 | 75.7 |
| 127 | 8.8 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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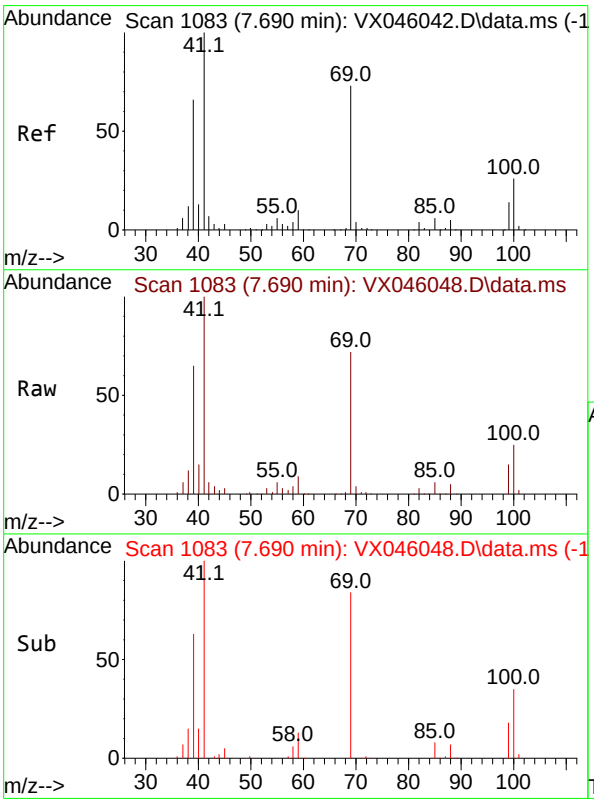
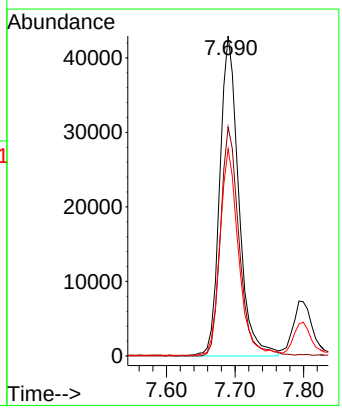
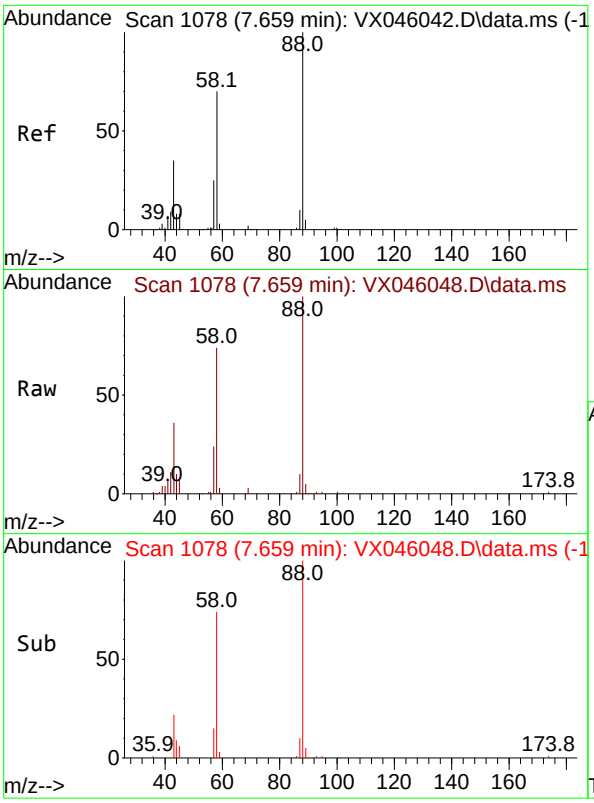



#48
Methyl methacrylate
Concen: 54.226 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 41 Resp: 82144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 70.4 | 58.5 | 87.7 |
| 39 | 64.2 | 51.7 | 77.5 |

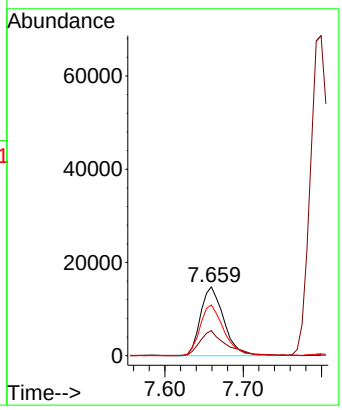





#49
1,4-Dioxane
Concen: 1059.599 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 88 Resp: 3047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 39.9 | 33.4 | 50.2 |
| 58 | 76.2 | 58.6 | 88.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
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Reviewed By :John Carlone 05/06/2025
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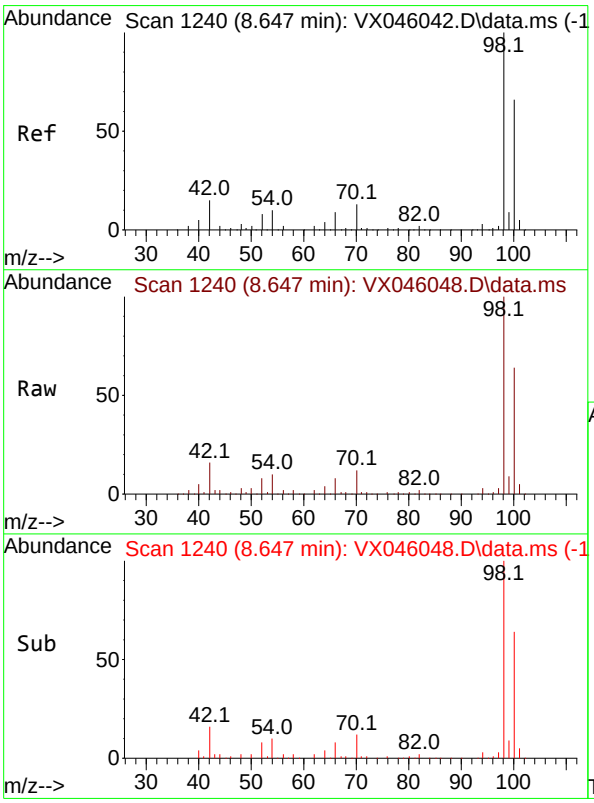
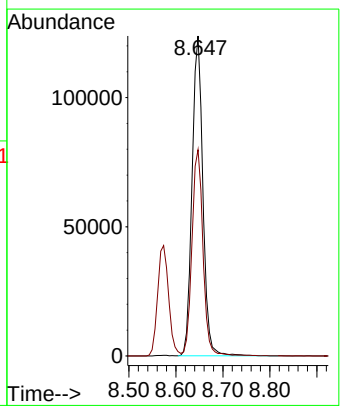
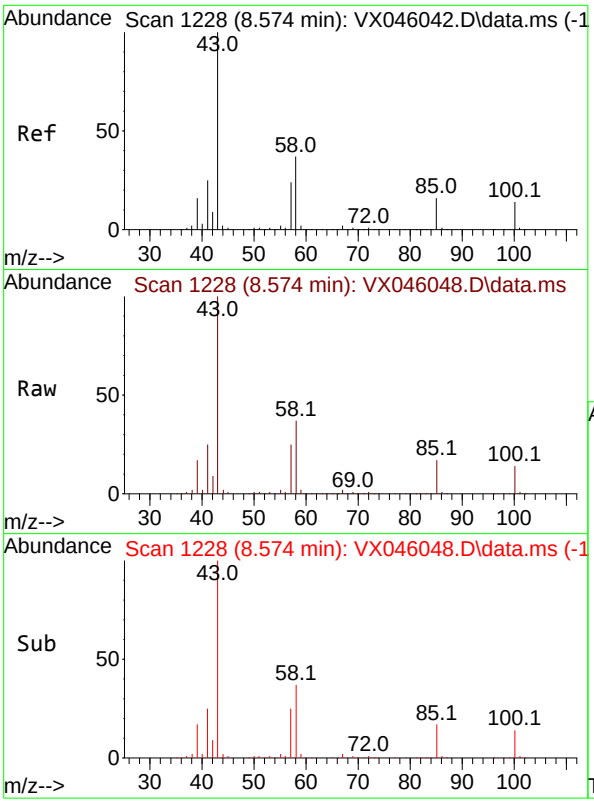



#50
Toluene-d8
Concen: 48.984 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 98 Resp: 198575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.6 | 53.5 | 80.3 |

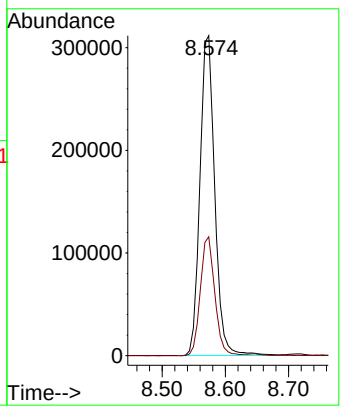





#51
4-Methyl-2-Pentanone
Concen: 259.133 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 51020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.1 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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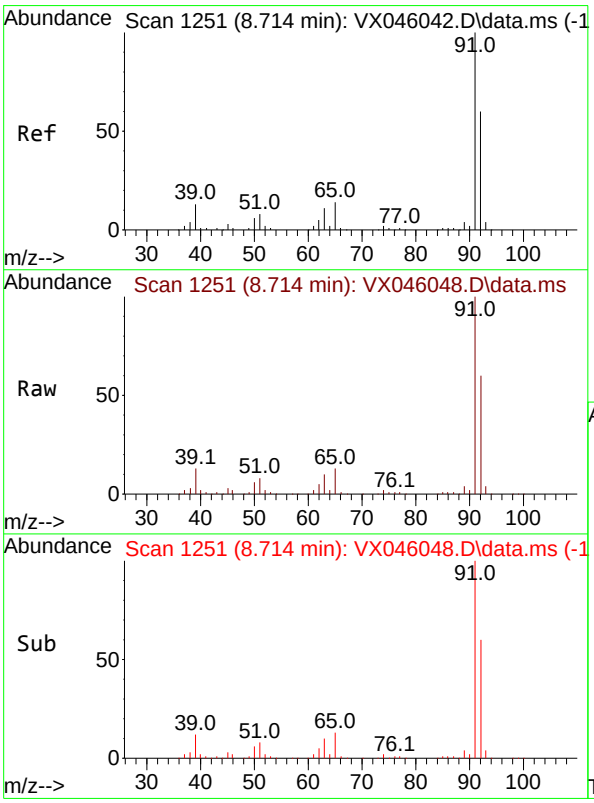
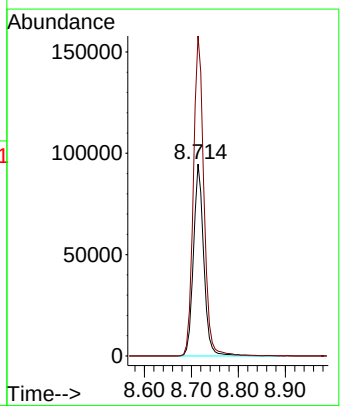
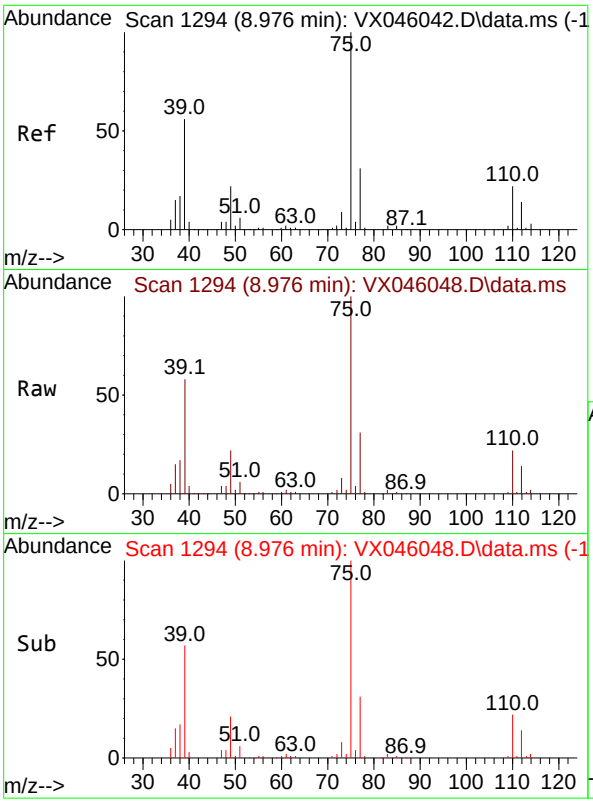



#52
Toluene
Concen: 51.150 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 92 Resp: 144574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.4 | 136.6 | 205.0 |

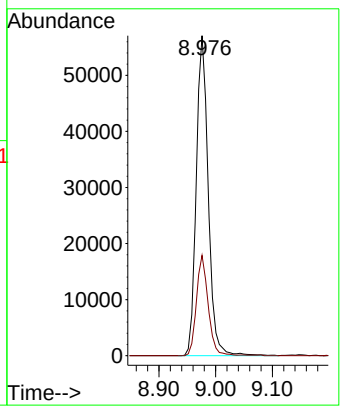





#53
t-1,3-Dichloropropene
Concen: 52.920 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 8375

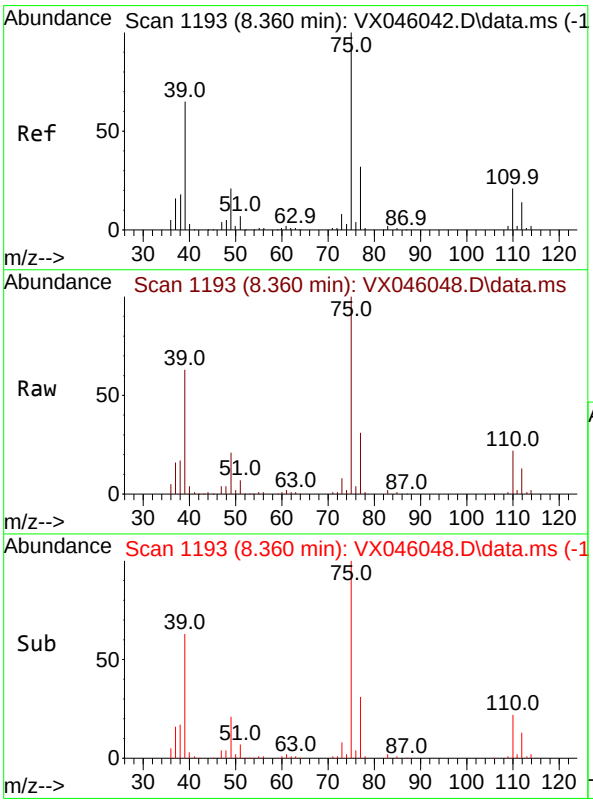
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.0 | 37.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
**APPROVED**

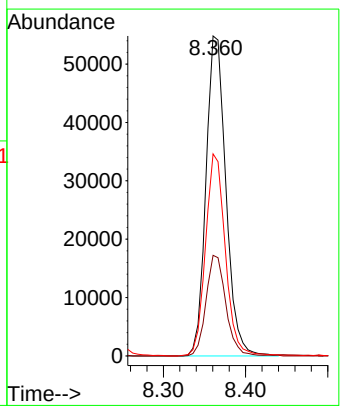
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

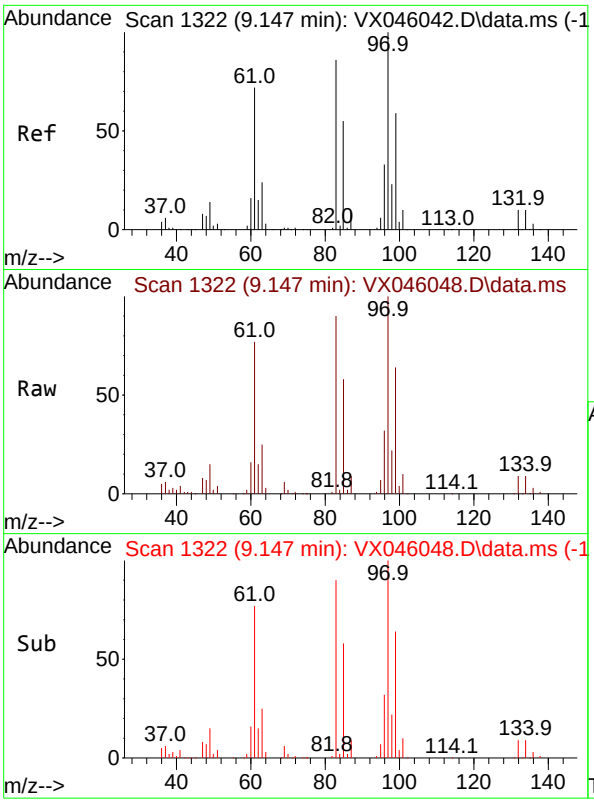



#54
cis-1,3-Dichloropropene
Concen: 52.892 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 92517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.5 | 25.4 | 38.0 |
| 39 | 63.2 | 52.2 | 78.4 |

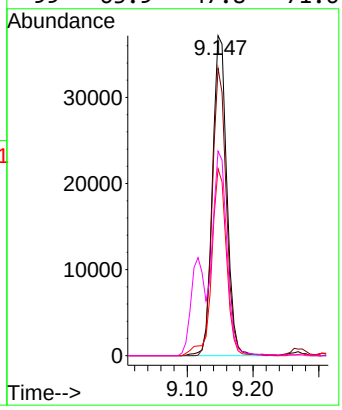





#55
1,1,2-Trichloroethane
Concen: 50.887 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 97 Resp: 5671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.8 | 69.0 | 103.6 |
| 85 | 58.4 | 44.3 | 66.5 |
| 99 | 63.9 | 47.8 | 71.6 |




**Instrument :**
MSVOA_X
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ICVVX050525

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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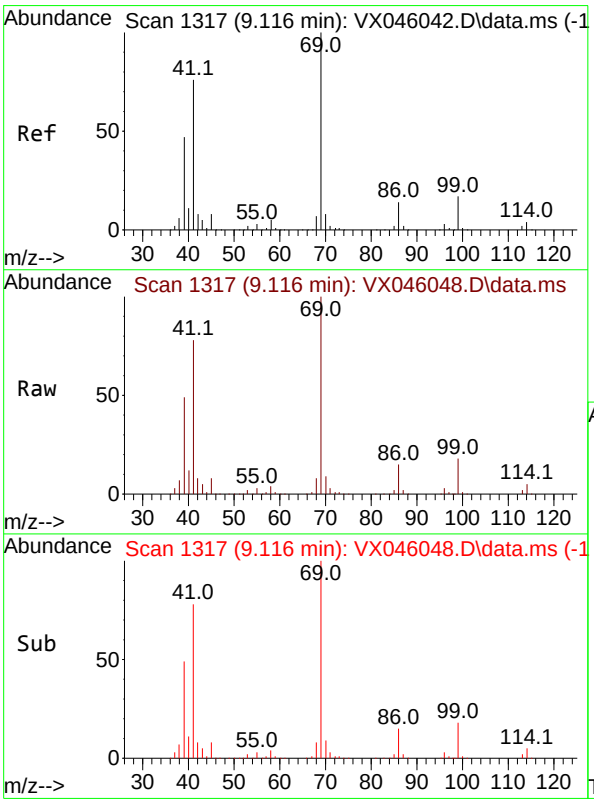
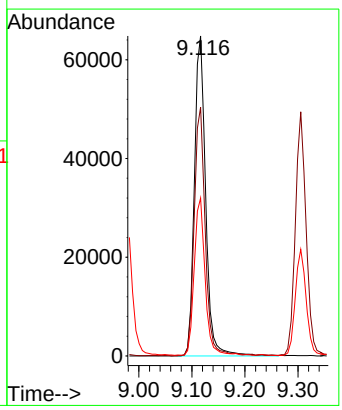
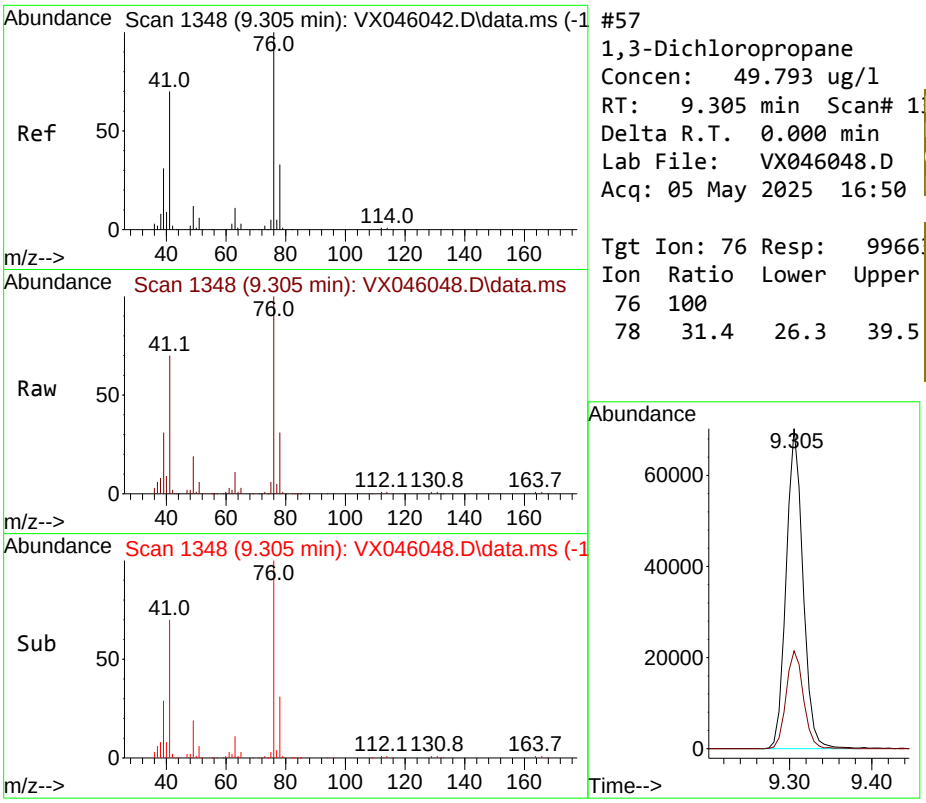



#56
Ethyl methacrylate
Concen: 53.918 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 69 Resp: 95772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 76.1 | 60.8 | 91.2 |
| 39 | 47.4 | 39.0 | 58.6 |






#57
1,3-Dichloropropane
Concen: 49.793 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 76 Resp: 9966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.4 | 26.3 | 39.5 |




**Instrument :**
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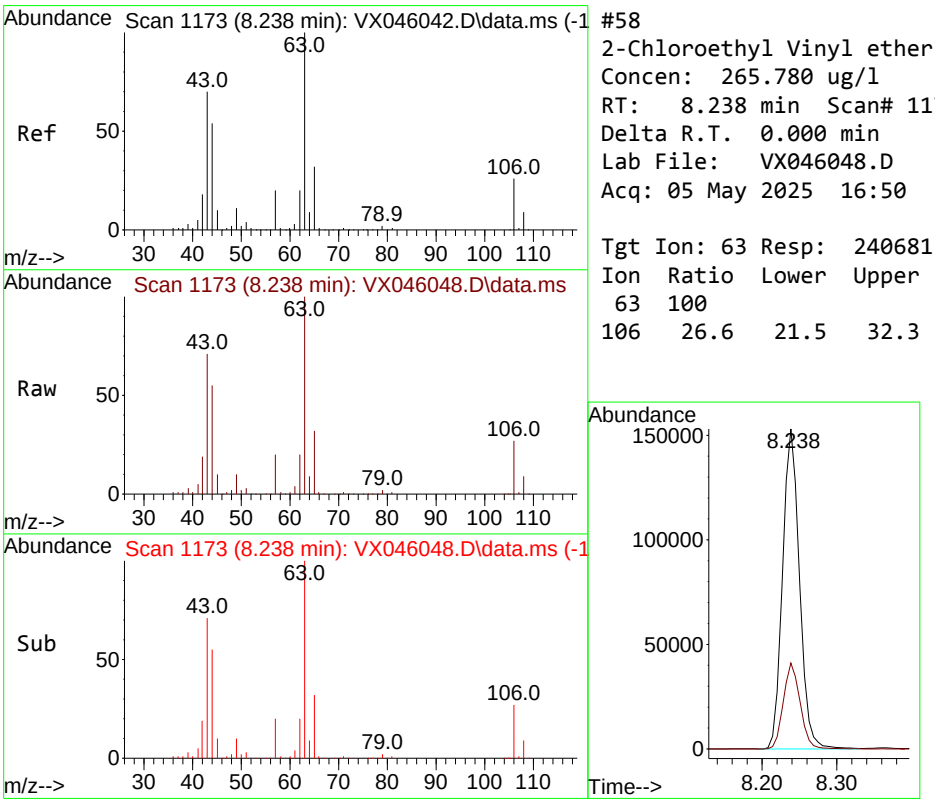
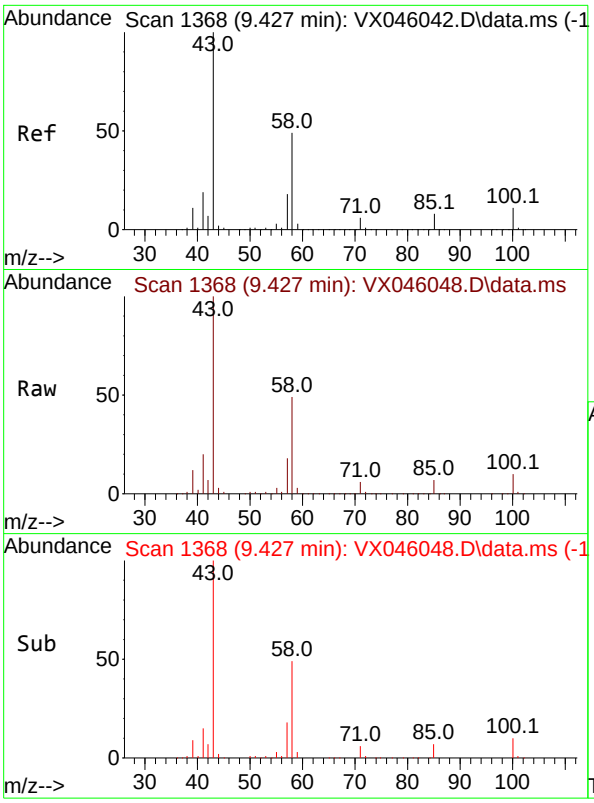



#58
2-Chloroethyl Vinyl ether
Concen: 265.780 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 63 Resp: 240681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.6 | 21.5 | 32.3 |




#59
2-Hexanone
Concen: 268.218 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 39070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.6 | 24.9 | 74.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
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Reviewed By :John Carlone 05/06/2025
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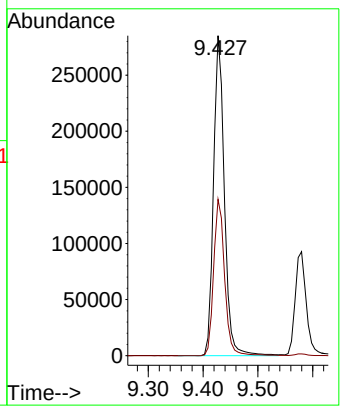
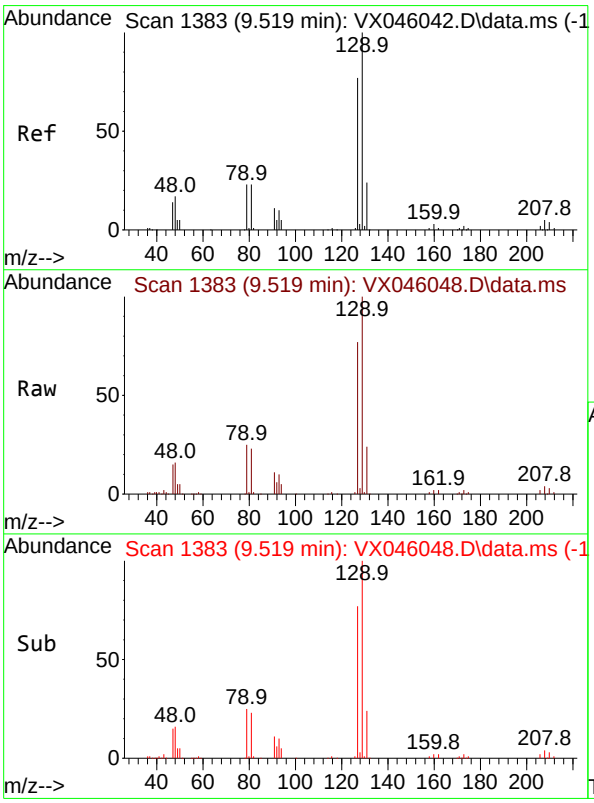
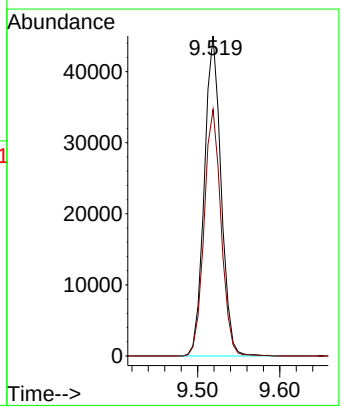


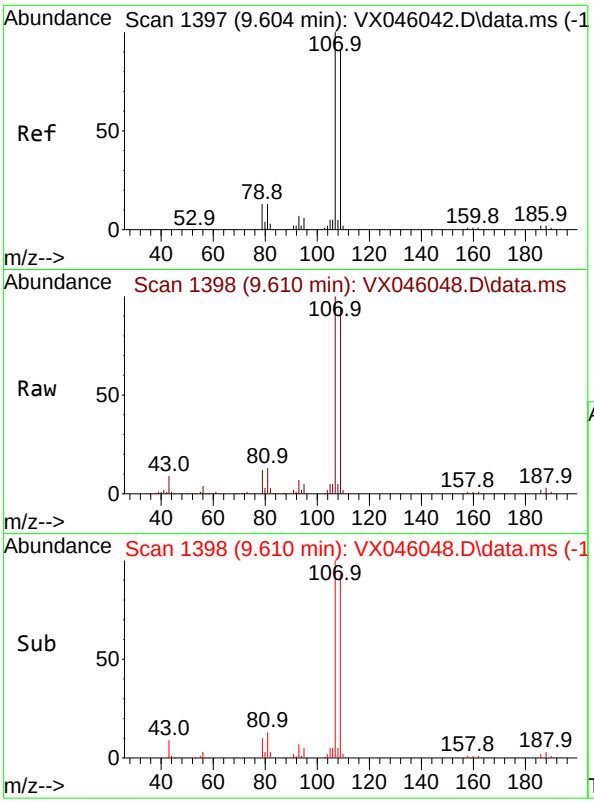




#60
Dibromochloromethane
Concen: 52.075 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:129 Resp: 63738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.9 | 39.3 | 117.8 |

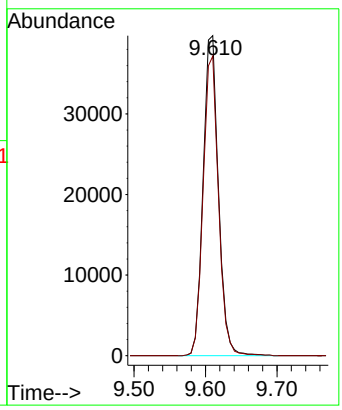





#61
1,2-Dibromoethane
Concen: 51.050 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:107 Resp: 5913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.8 | 73.3 | 109.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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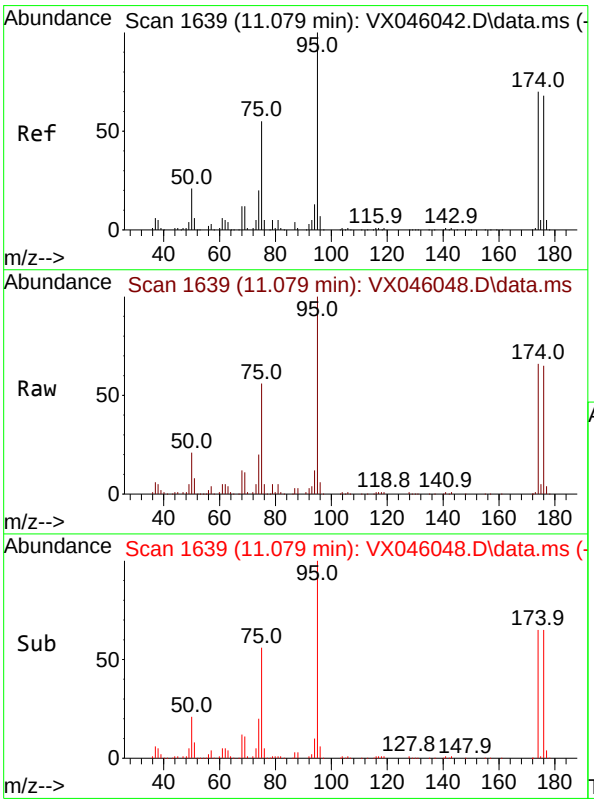
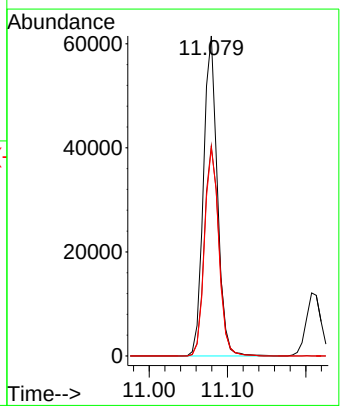
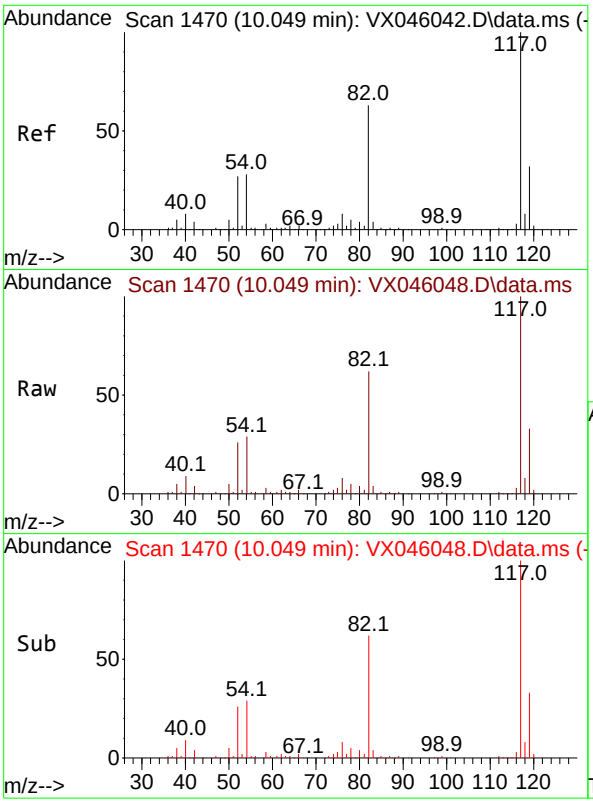



#62
4-Bromofluorobenzene
Concen: 48.596 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 95 Resp: 75568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 68.2 | 0.0 | 135.8 |
| 176 | 66.5 | 0.0 | 131.4 |

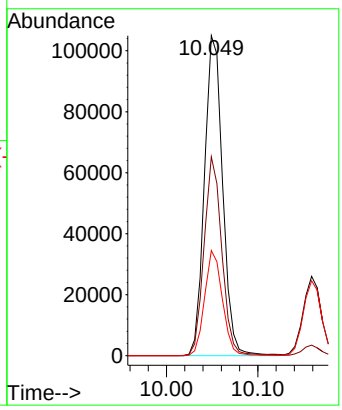





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:117 Resp: 14507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 62.1 | 50.6 | 76.0 |
| 119 | 32.9 | 25.8 | 38.6 |




**Instrument :**
MSVOA_X
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ICVVX050525

**Manual Integrations APPROVED**

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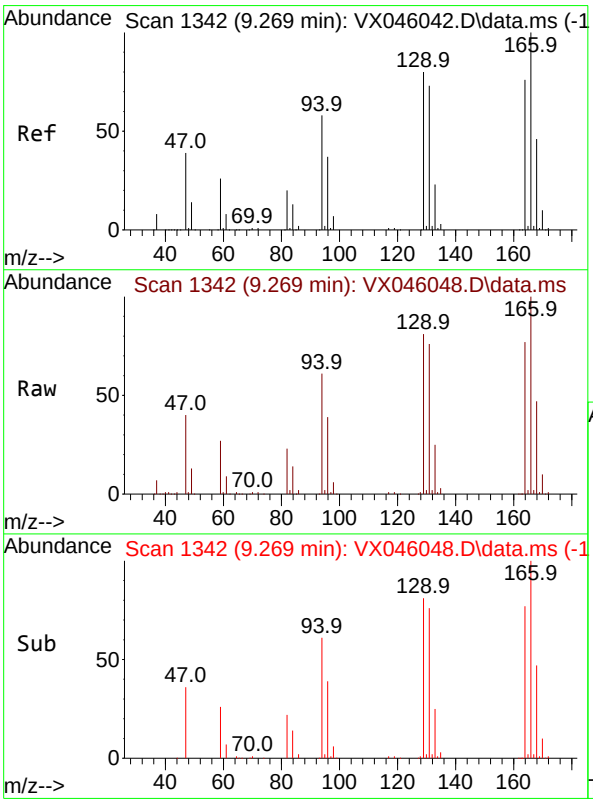
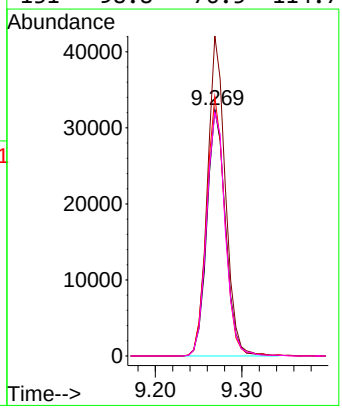
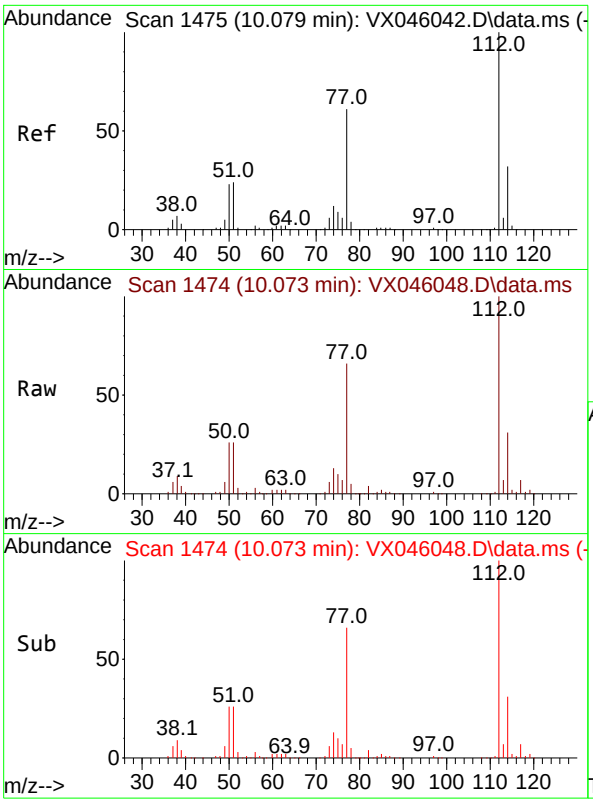



#64
Tetrachloroethene
Concen: 46.795 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:164 Resp: 48034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 129.9 | 105.0 | 157.6 |
| 129 | 105.3 | 83.5 | 125.3 |
| 131 | 98.8 | 76.5 | 114.7 |

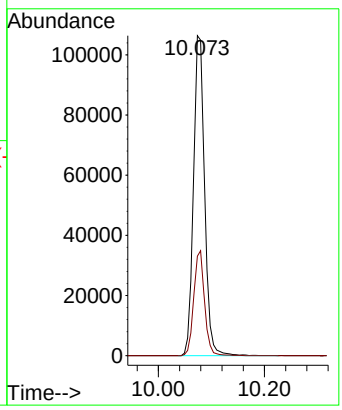





#65
Chlorobenzene
Concen: 48.699 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:112 Resp: 15464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.1 | 25.4 | 38.2 |

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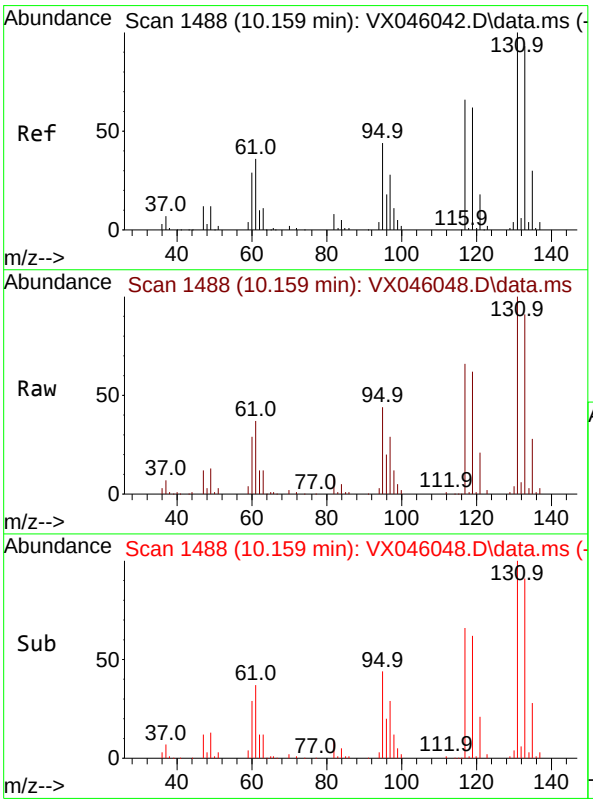
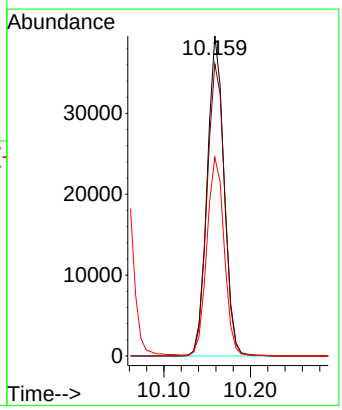
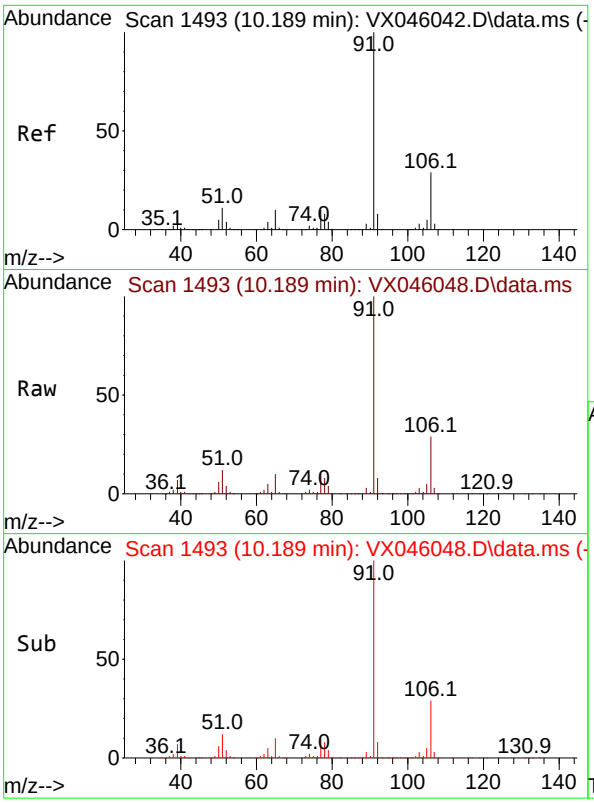



#66
1,1,1,2-Tetrachloroethane
Concen: 49.557 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:131 Resp: 53735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.9 | 47.3 | 141.9 |
| 119 | 63.7 | 31.6 | 95.0 |

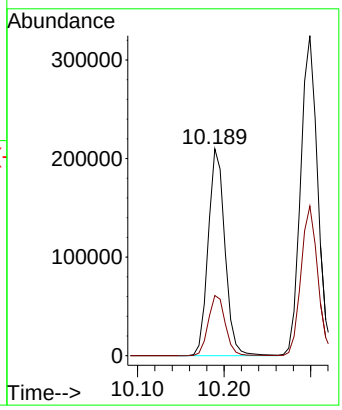





#67
Ethyl Benzene
Concen: 50.245 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 91 Resp: 28123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.1 | 23.4 | 35.2 |




**Instrument :**
MSVOA_X
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ICVVX050525

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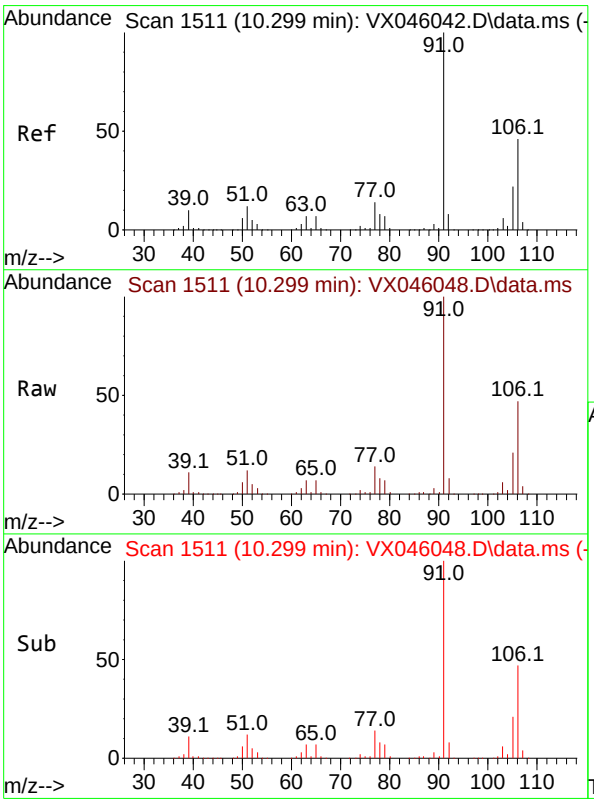
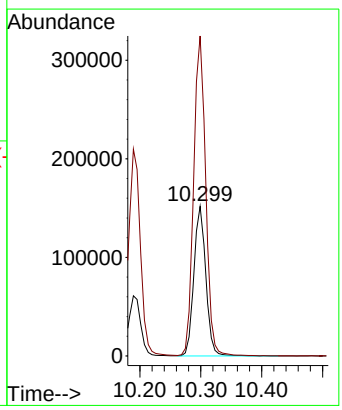
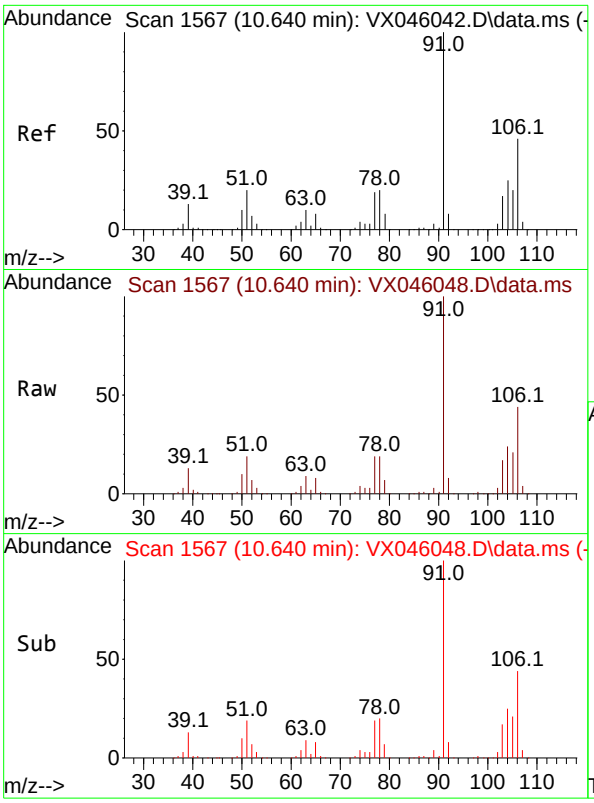



#68
m/p-Xylenes
Concen: 101.022 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:106 Resp: 206813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.6 | 171.2 | 256.8 |

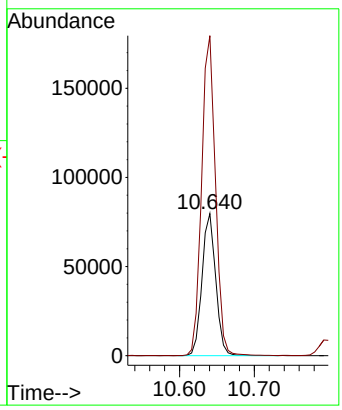





#69
o-Xylene
Concen: 50.841 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:106 Resp: 10146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 227.7 | 112.7 | 338.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

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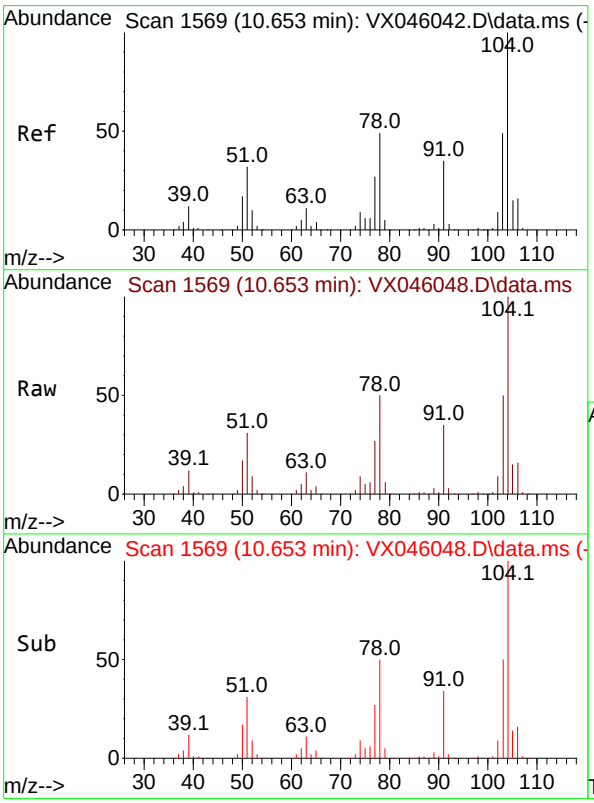
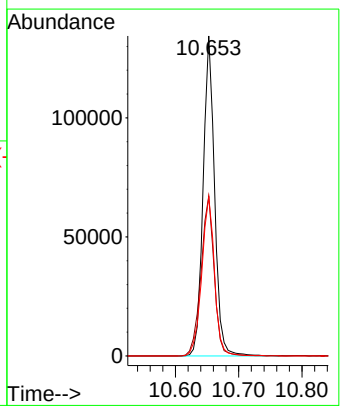
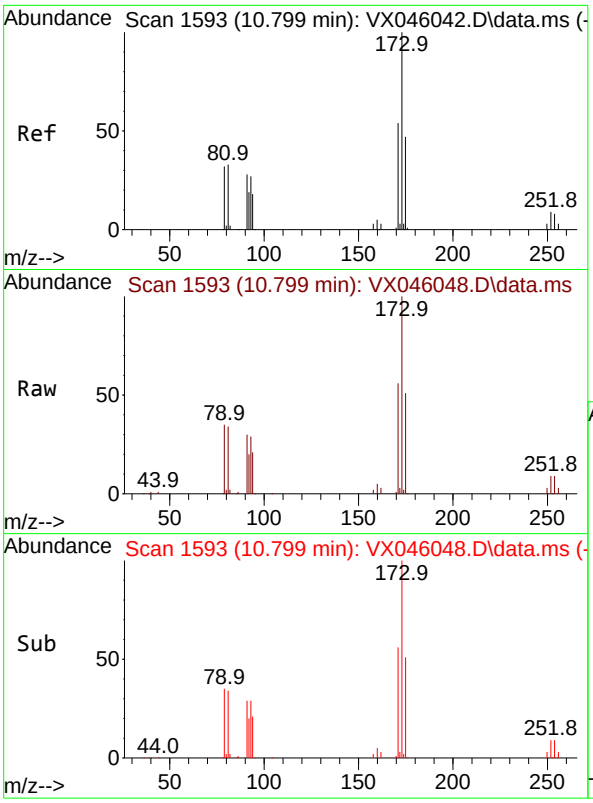



#70
Styrene
Concen: 51.907 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:104 Resp: 169703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 57.6 | 45.7 | 68.5 |
| 103 | 55.5 | 43.7 | 65.5 |

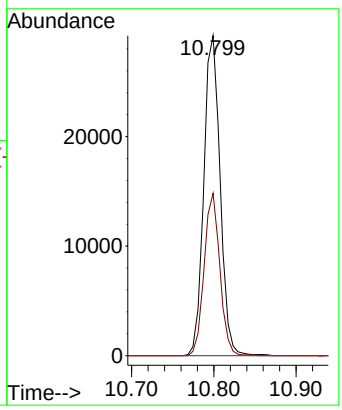





#71
Bromoform
Concen: 49.583 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:173 Resp: 4036

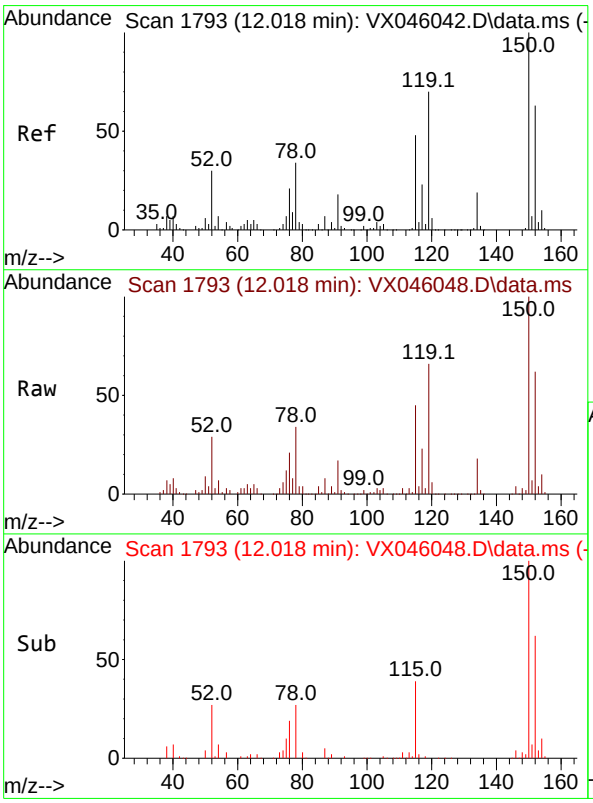
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.8 | 23.4 | 70.0 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

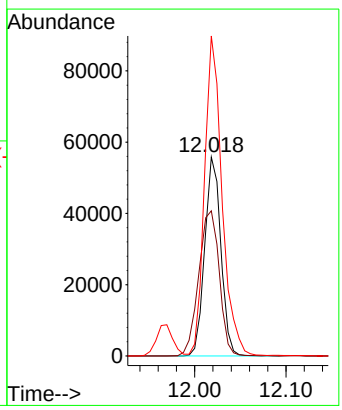
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

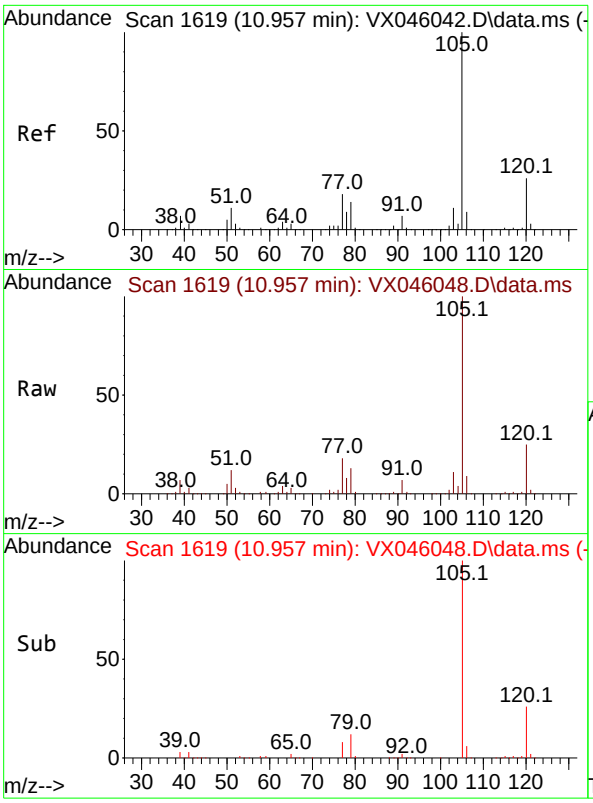



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:152 Resp: 68229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 93.3 | 46.9 | 140.7 |
| 150 | 175.3 | 0.0 | 351.0 |

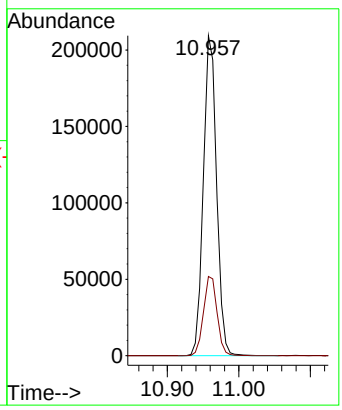





#73
Isopropylbenzene
Concen: 50.733 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:105 Resp: 26948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.4 | 12.8 | 38.4 |




**Instrument :**
MSVOA_X
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ICVVX050525

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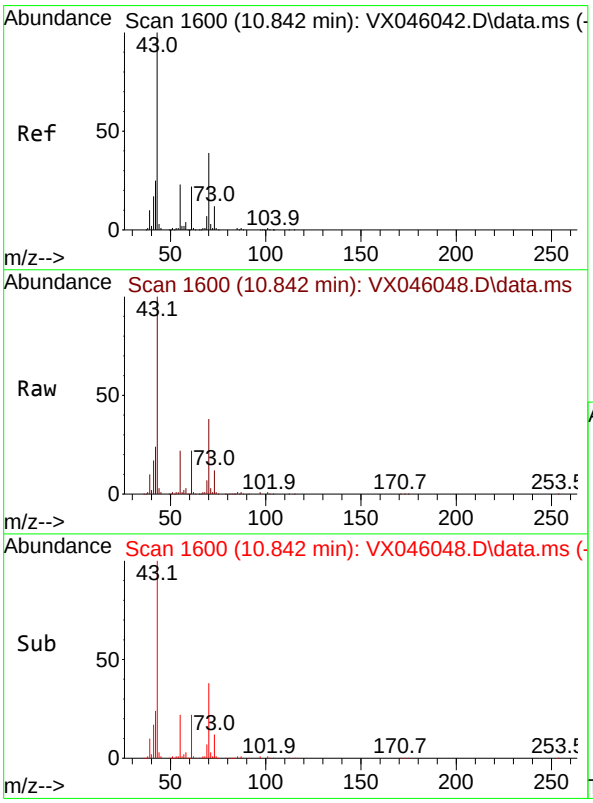
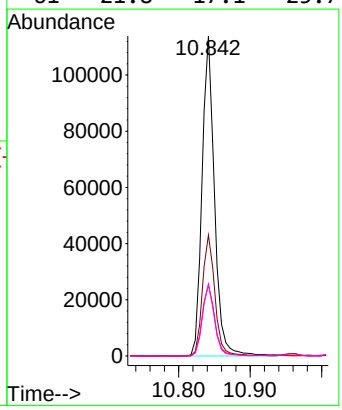
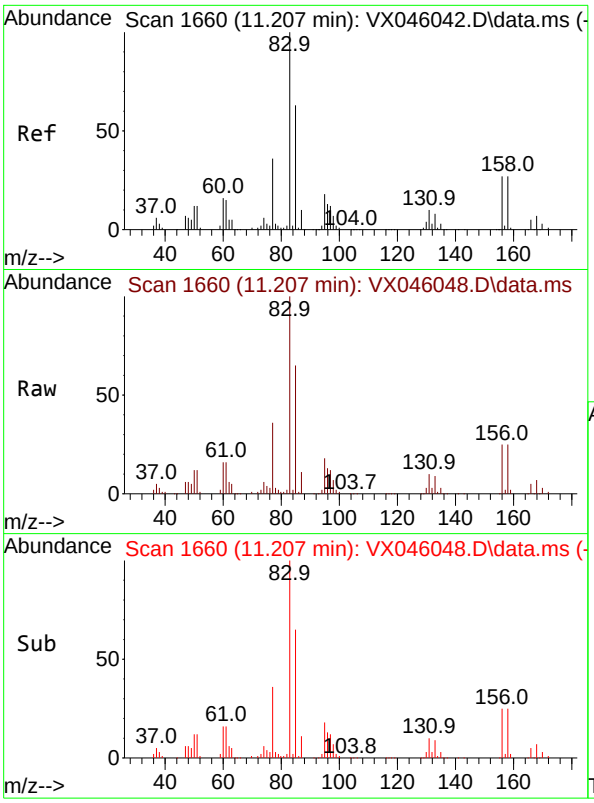



#74
N-amyl acetate
Concen: 52.407 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 137559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 37.9 | 30.9 | 46.3 |
| 55 | 22.7 | 18.7 | 28.1 |
| 61 | 21.8 | 17.1 | 25.7 |

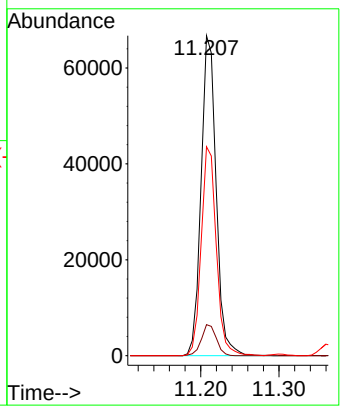





#75
1,1,2,2-Tetrachloroethane
Concen: 47.827 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 83 Resp: 8902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.7 | 5.0 | 14.9 |
| 85 | 65.5 | 31.9 | 95.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
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Reviewed By :John Carlone 05/06/2025
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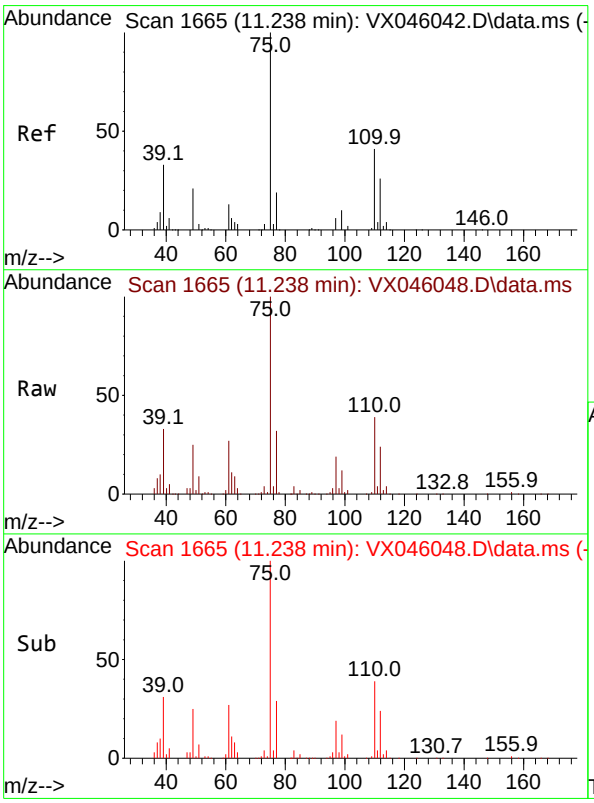
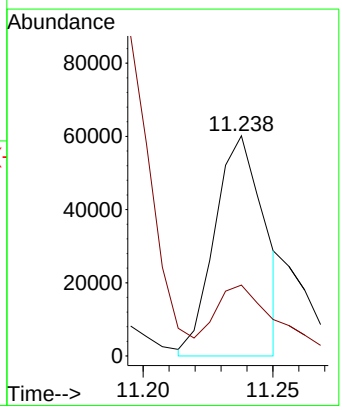
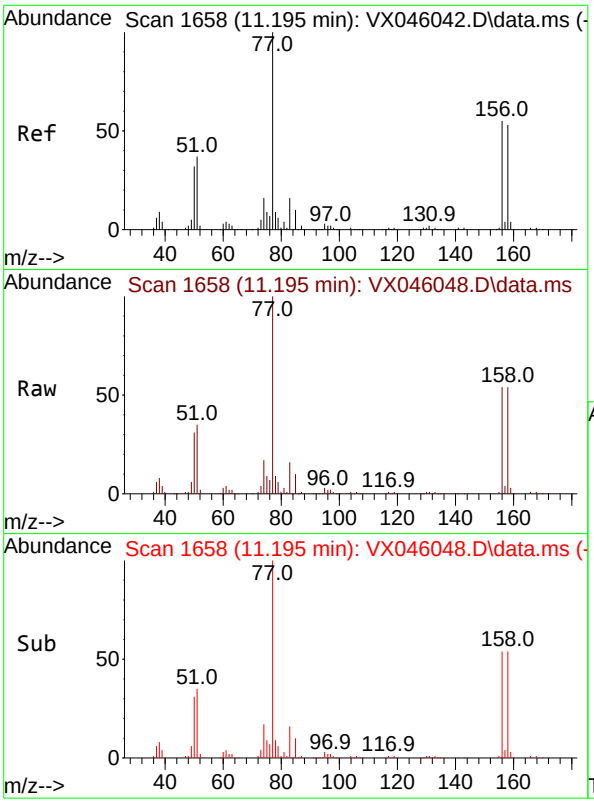



#76
1,2,3-Trichloropropane
Concen: 48.568 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 79763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 40.8 | 20.5 | 61.5 |

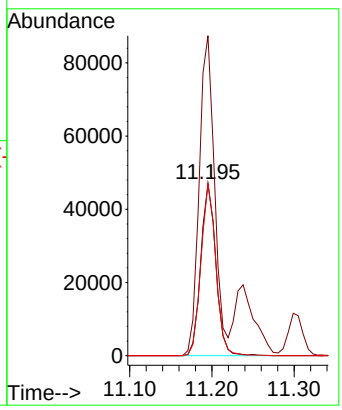





#77
Bromobenzene
Concen: 48.549 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:156 Resp: 5987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 189.0 | 92.8 | 278.3 |
| 158 | 98.9 | 48.8 | 146.3 |




**Instrument :**
MSVOA_X
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ICVVX050525

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
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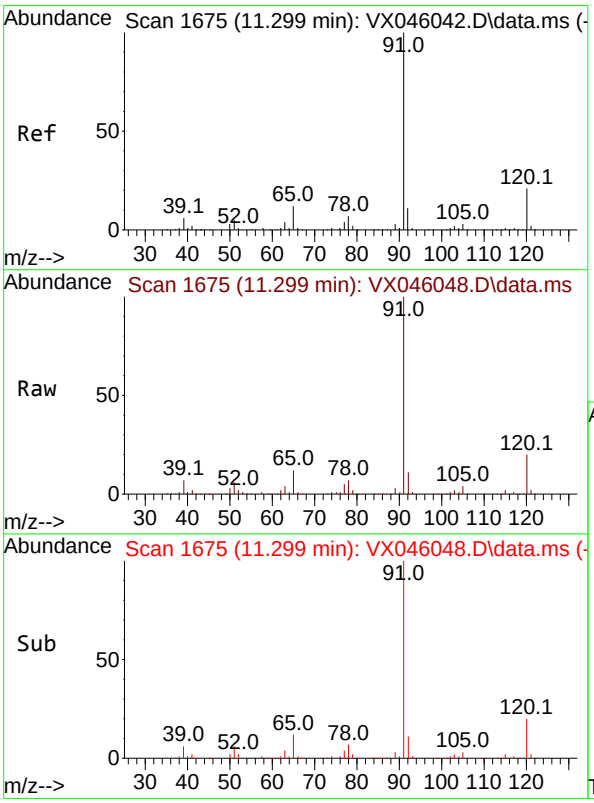
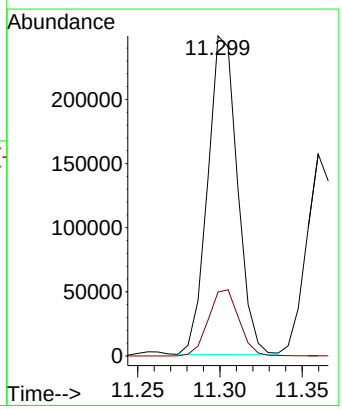
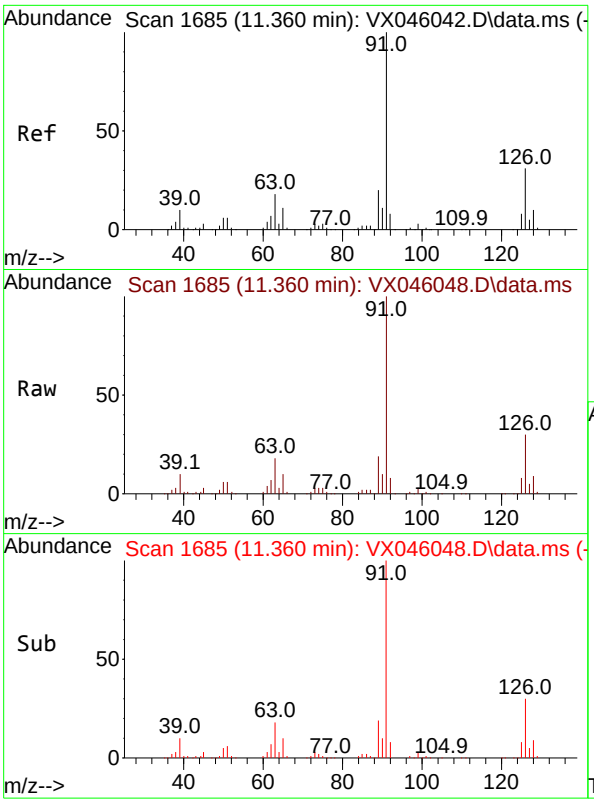



#78
n-propylbenzene
Concen: 50.562 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 91 Resp: 312285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.4 | 10.8 | 32.4 |

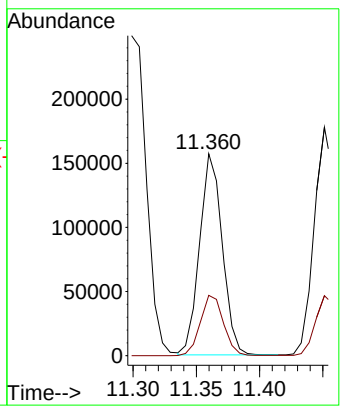





#79
2-Chlorotoluene
Concen: 49.107 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 91 Resp: 19563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.8 | 15.6 | 46.7 |




**Instrument :**
MSVOA_X
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ICVVX050525

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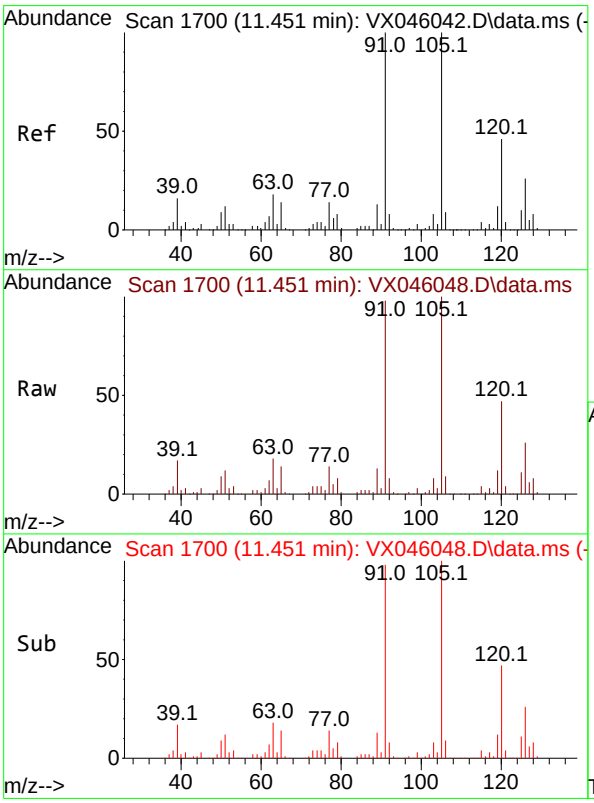
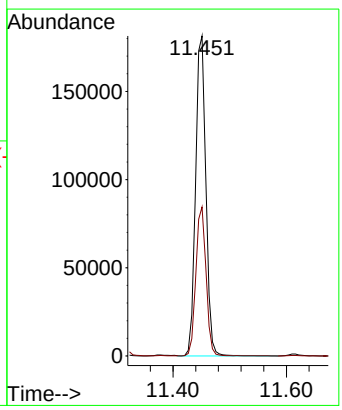
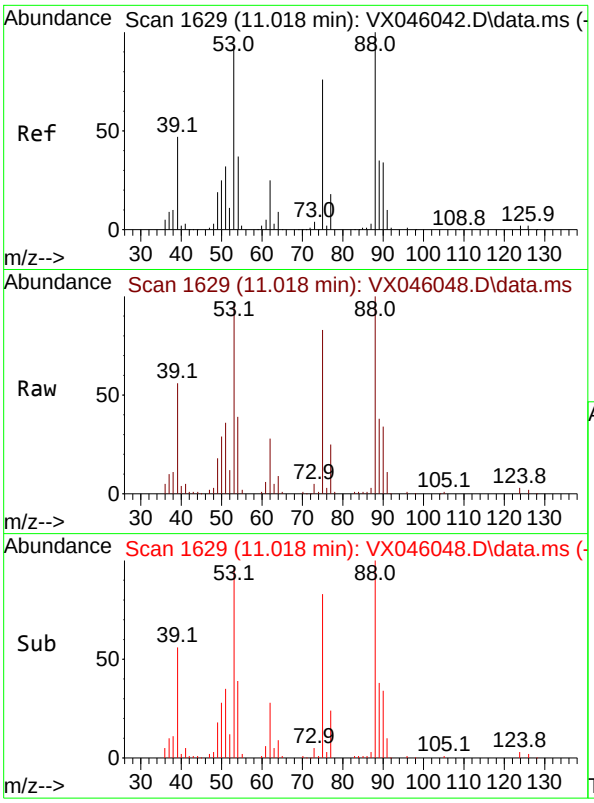



#80
1,3,5-Trimethylbenzene
Concen: 51.500 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:105 Resp: 228538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.3 | 23.1 | 69.2 |

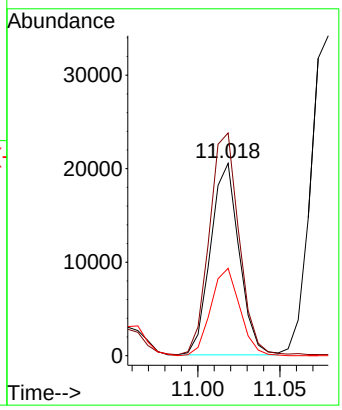





#81
trans-1,4-Dichloro-2-butene
Concen: 49.276 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 2485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 122.3 | 100.5 | 150.7 |
| 89 | 46.2 | 37.0 | 55.6 |




**Instrument :**
MSVOA_X
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ICVVX050525

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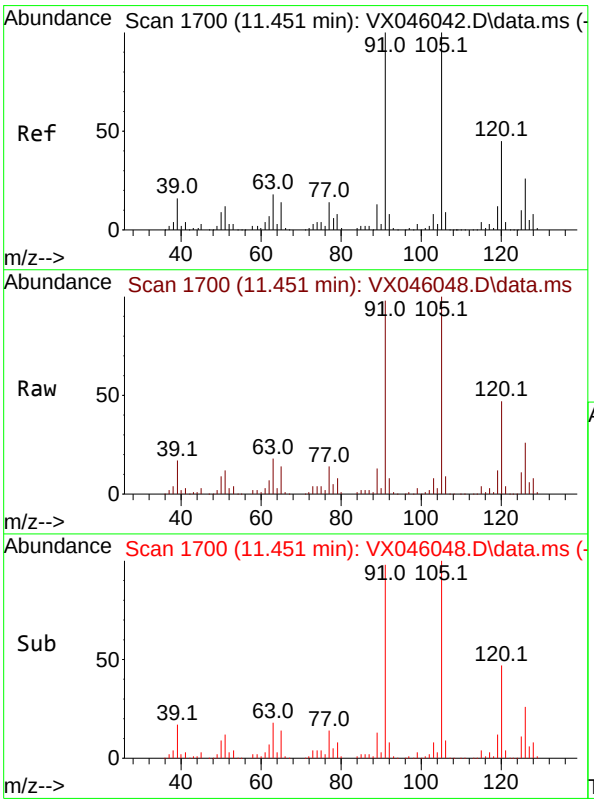
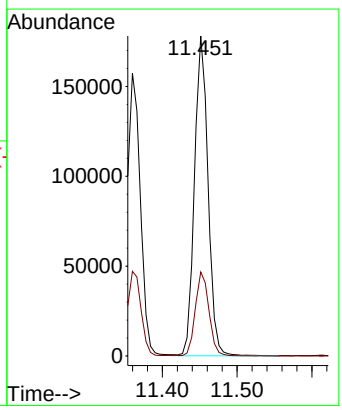
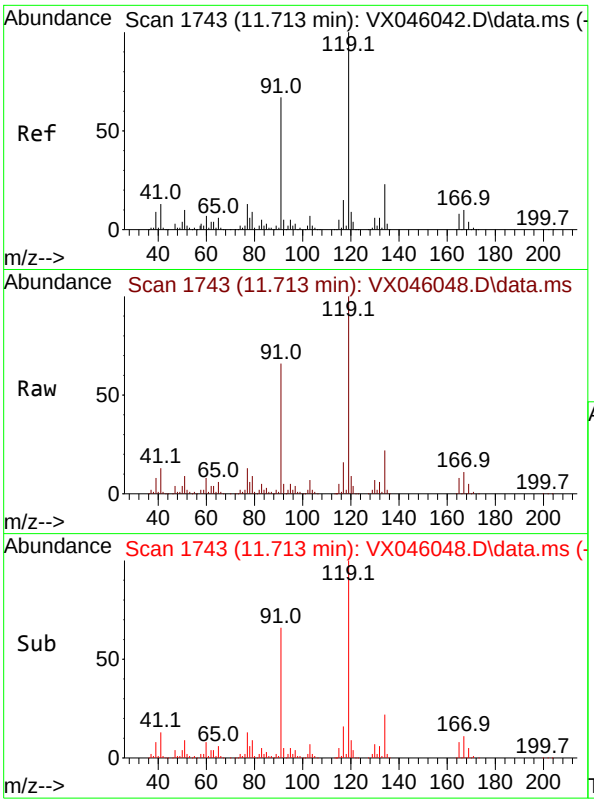



#82
4-Chlorotoluene
Concen: 50.661 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 91 Resp: 223811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 26.5 | 13.3 | 39.8 |

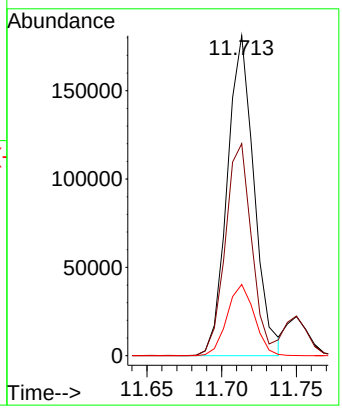





#83
tert-Butylbenzene
Concen: 50.511 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:119 Resp: 22578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.9 | 32.9 | 98.7 |
| 134 | 22.6 | 11.4 | 34.1 |

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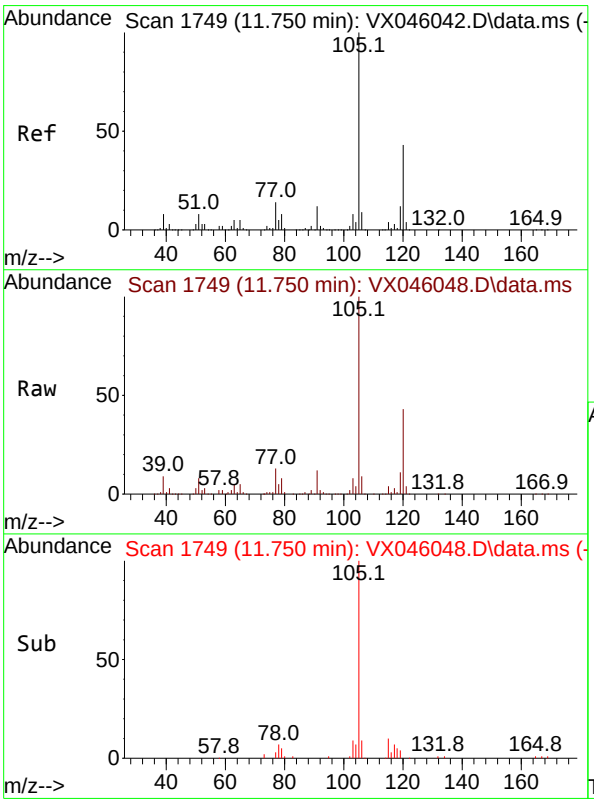
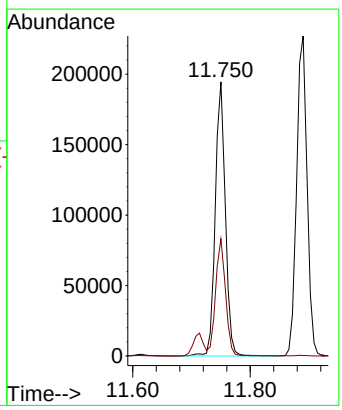
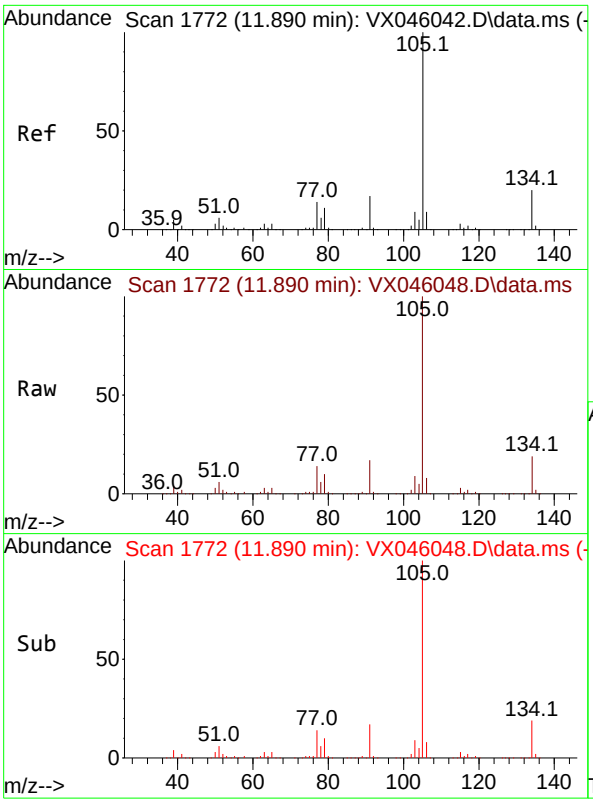



#84
1,2,4-Trimethylbenzene
Concen: 51.485 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:105 Resp: 231371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.3 | 21.2 | 63.6 |






#85
sec-Butylbenzene
Concen: 51.122 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:105 Resp: 28057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.1 | 9.7 | 29.1 |

**Instrument :**
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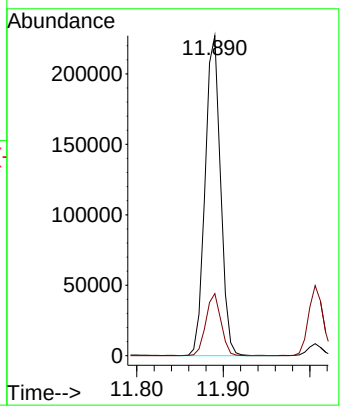
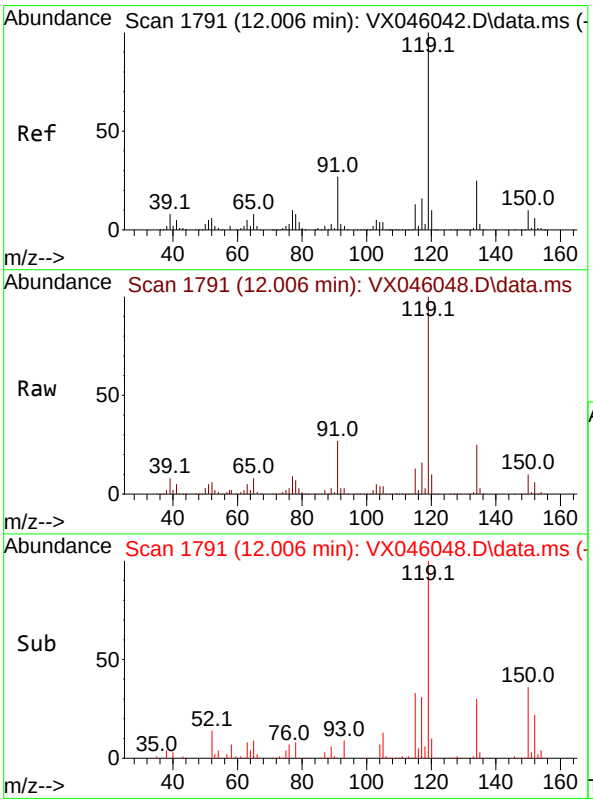
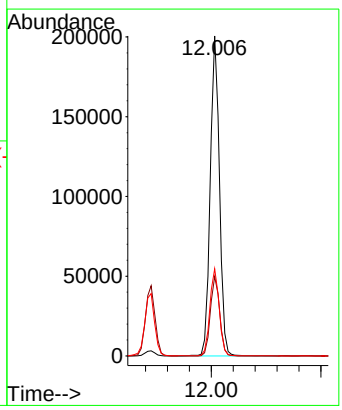


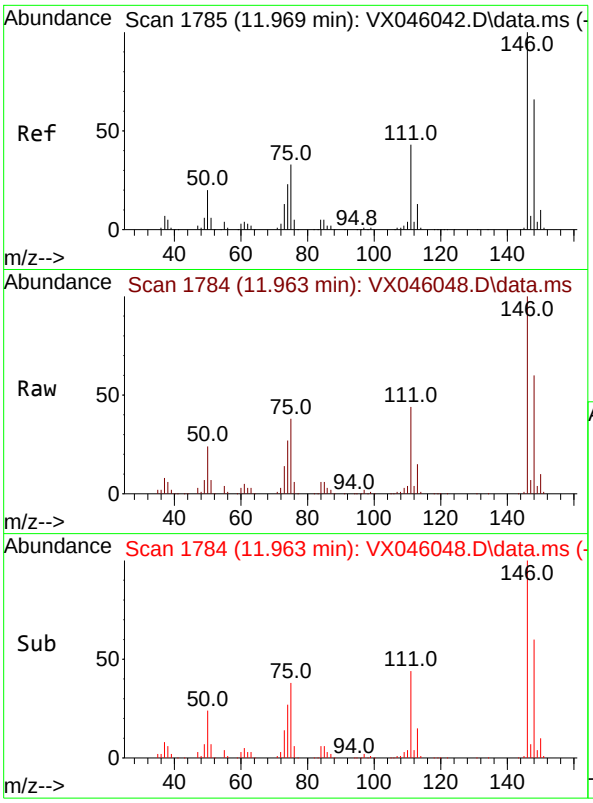




#86
p-Isopropyltoluene
Concen: 51.198 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:119 Resp: 231942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.0 | 12.5 | 37.5 |
| 91 | 27.5 | 13.8 | 41.4 |

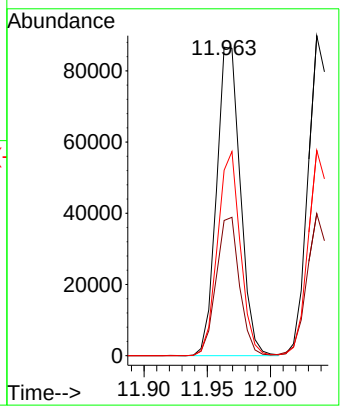





#87
1,3-Dichlorobenzene
Concen: 50.272 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:146 Resp: 11314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.1 | 22.1 | 66.3 |
| 148 | 63.5 | 32.1 | 96.5 |

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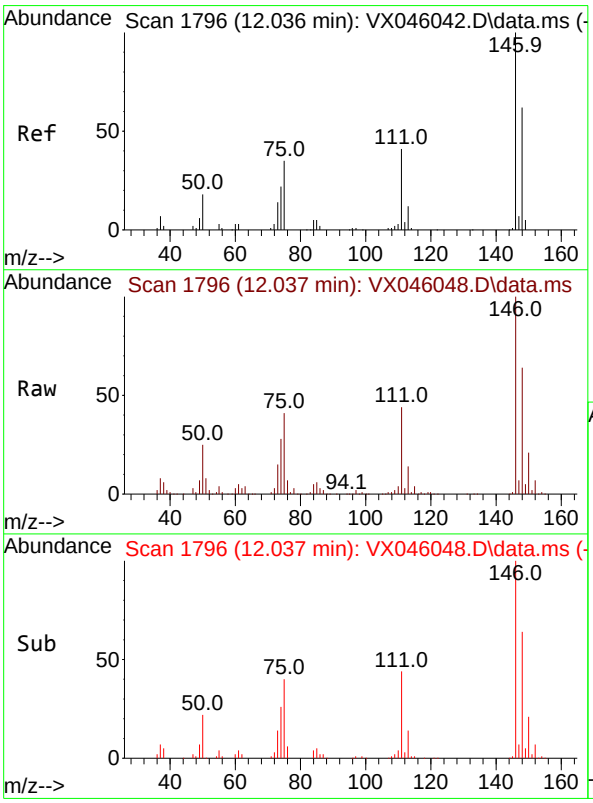
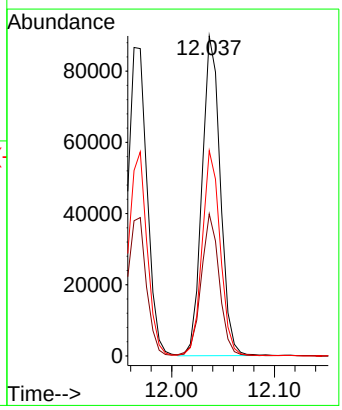
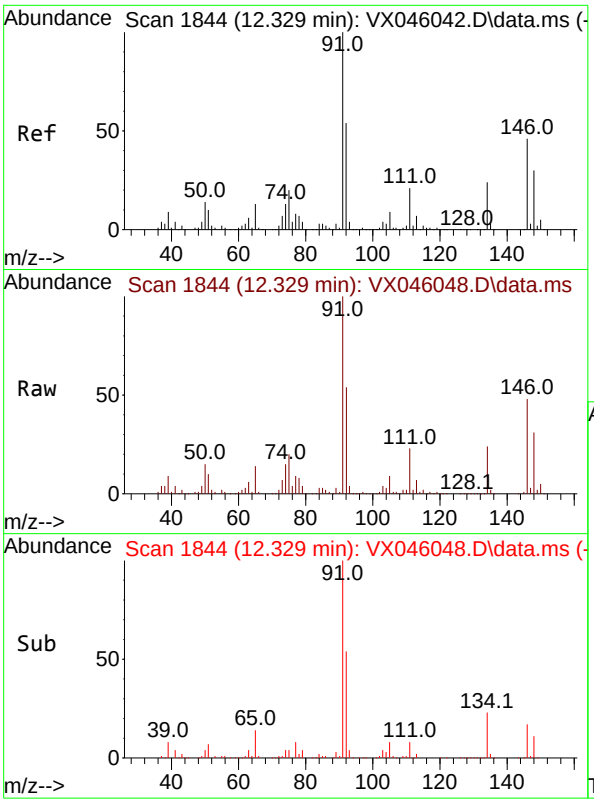



#88
1,4-Dichlorobenzene
Concen: 48.368 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:146 Resp: 111173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.9 | 21.3 | 63.9 |
| 148 | 63.3 | 31.9 | 95.5 |

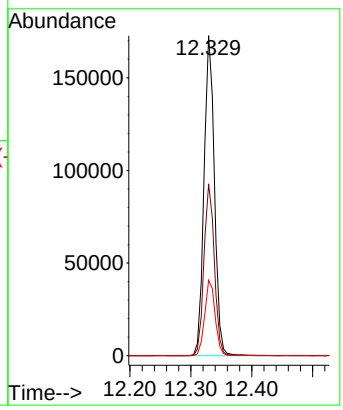





#89
n-Butylbenzene
Concen: 51.804 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 91 Resp: 20585

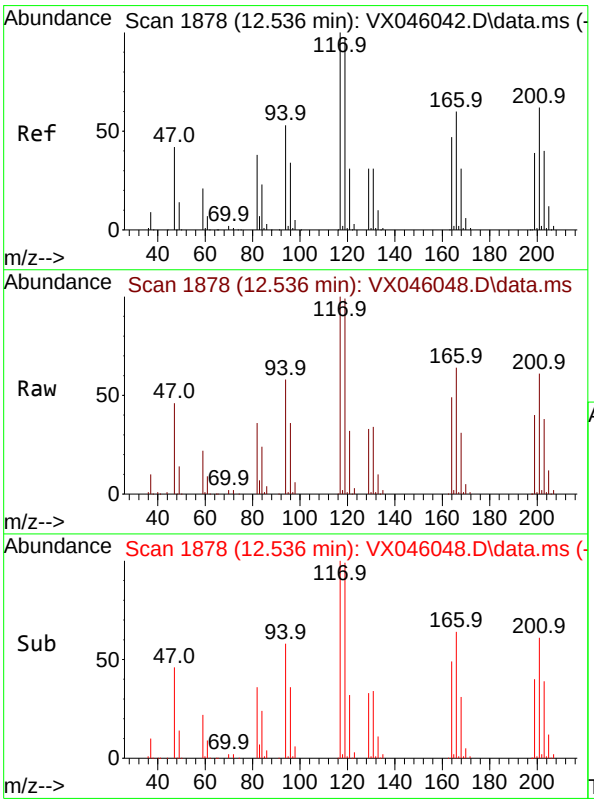
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.7 | 26.9 | 80.7 |
| 134 | 23.7 | 11.8 | 35.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

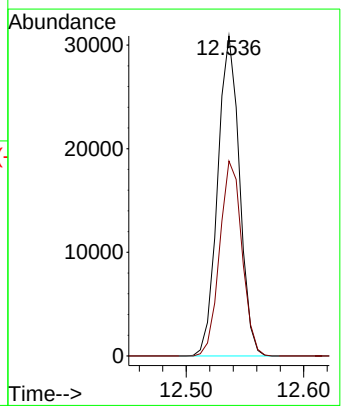
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

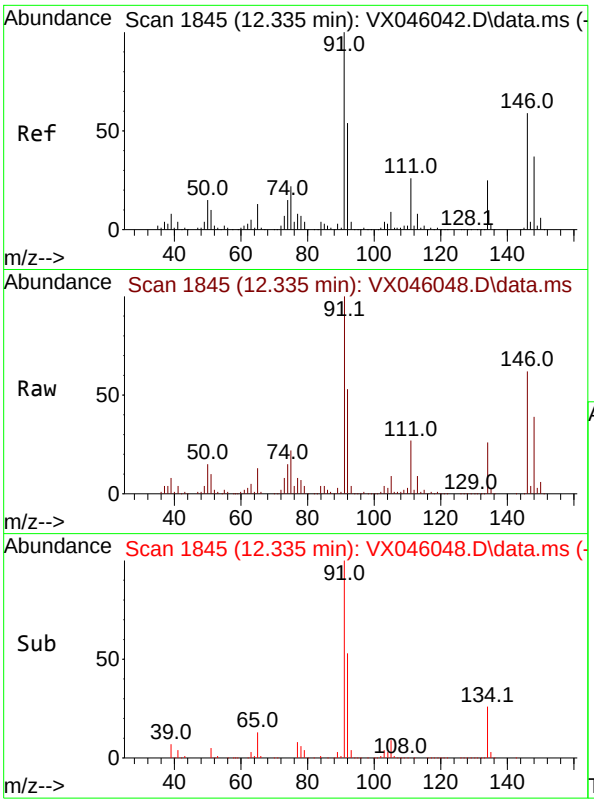



#90
Hexachloroethane
Concen: 49.895 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:117 Resp: 39823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 62.4 | 31.6 | 94.7 |

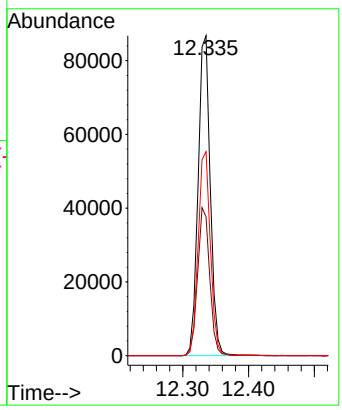





#91
1,2-Dichlorobenzene
Concen: 49.361 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:146 Resp: 11148

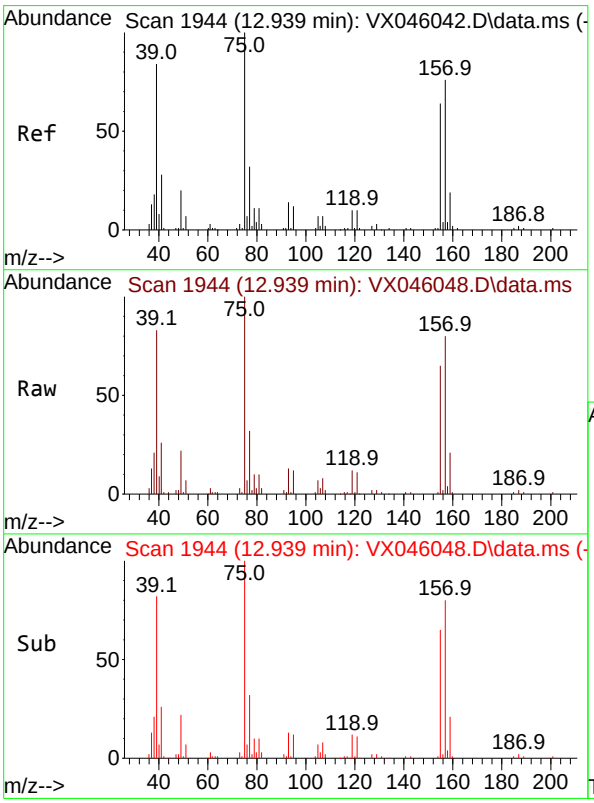
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.8 | 22.4 | 67.3 |
| 148 | 64.2 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
**APPROVED**

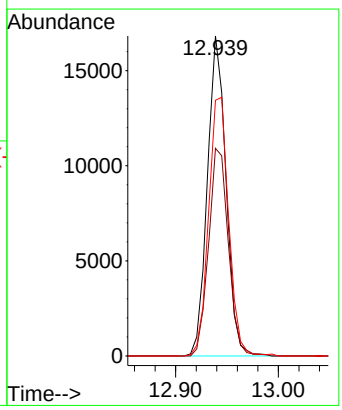
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

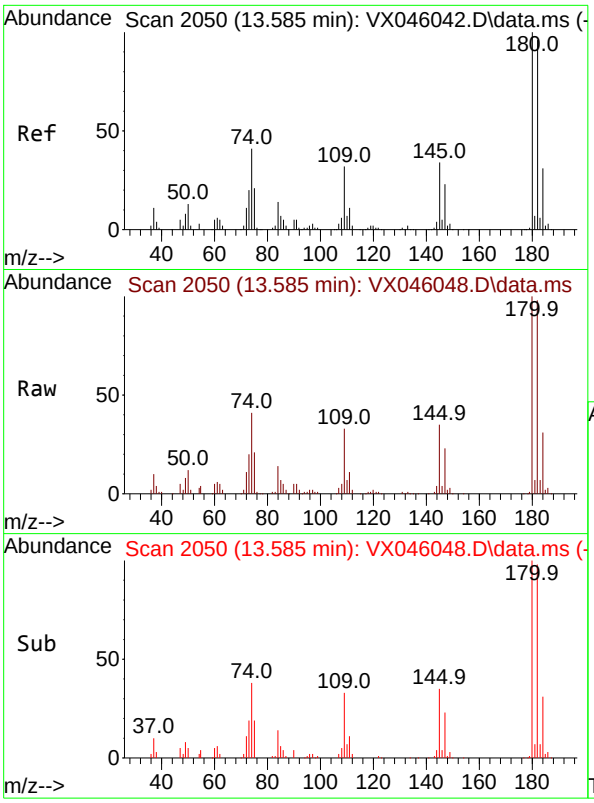



#92
1,2-Dibromo-3-Chloropropane
Concen: 51.458 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 21220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 68.6 | 34.9 | 104.8 |
| 157 | 86.7 | 43.8 | 131.4 |

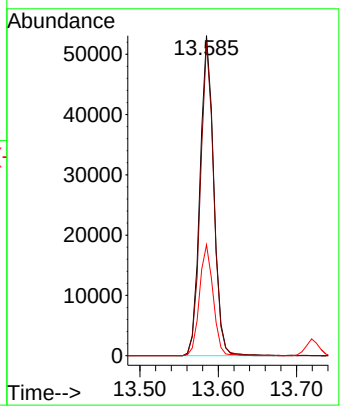





#93
1,2,4-Trichlorobenzene
Concen: 49.662 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:180 Resp: 6442

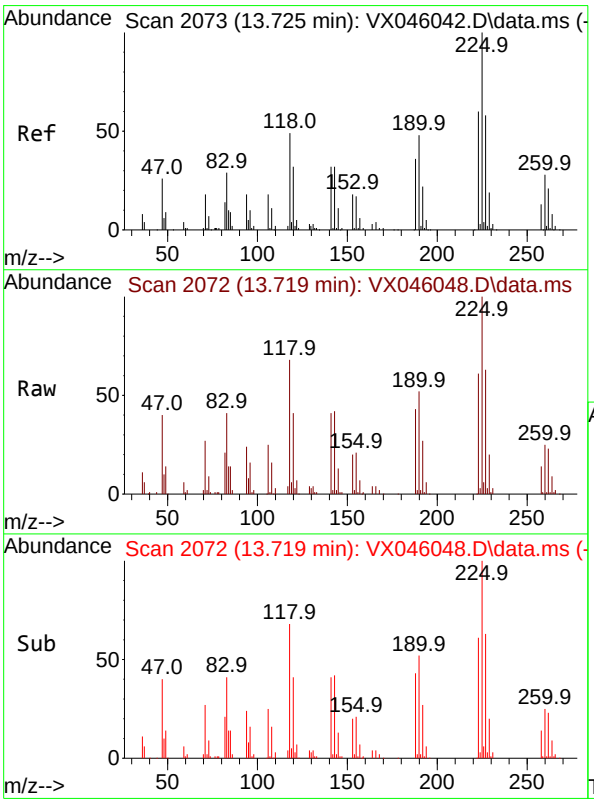
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 47.9 | 143.8 |
| 145 | 34.4 | 17.1 | 51.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations**
**APPROVED**

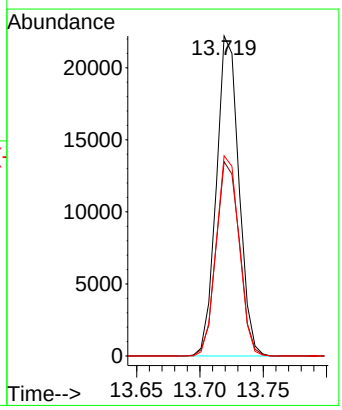
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

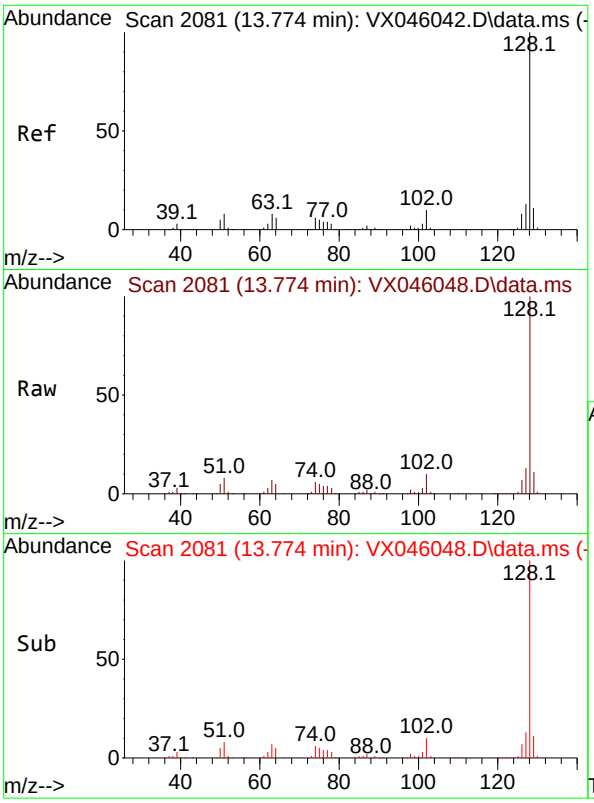



#94
Hexachlorobutadiene
Concen: 48.408 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:225 Resp: 27425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.1 | 30.8 | 92.4 |
| 227 | 63.7 | 30.9 | 92.7 |

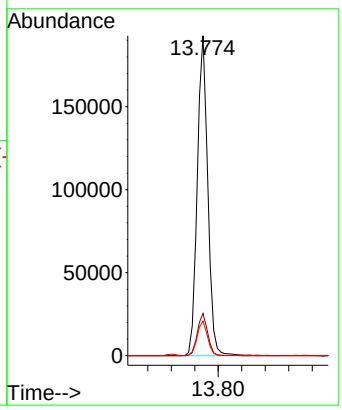





#95
Naphthalene
Concen: 50.404 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:128 Resp: 23980

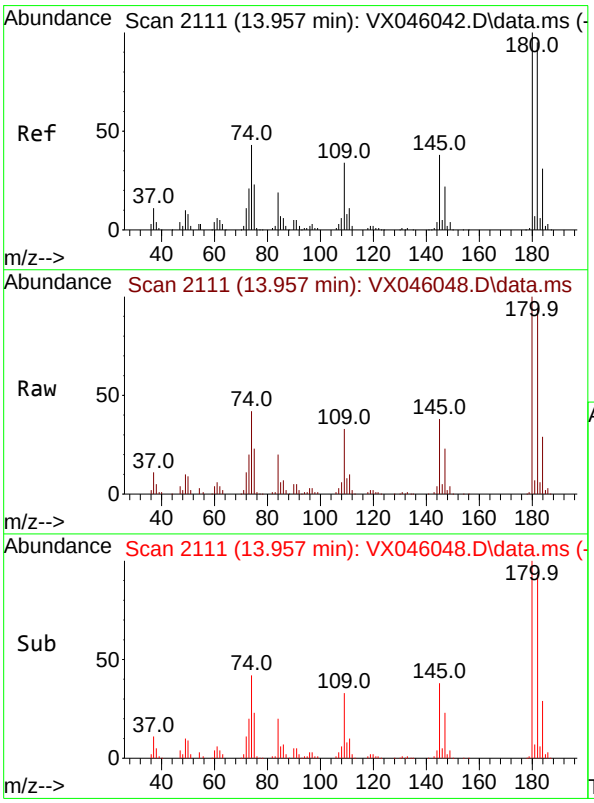
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.4 | 15.6 |
| 129 | 10.7 | 8.6 | 13.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

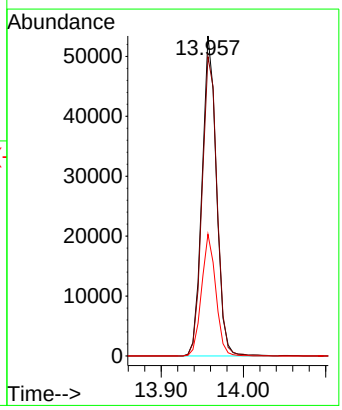
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025




#96
1,2,3-Trichlorobenzene
Concen: 48.525 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:180 Resp: 64950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.0 | 47.8 | 143.3 |
| 145 | 37.5 | 18.1 | 54.3 |



# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 95 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.765 | 0.851 | -11.2 | 94 | 0.00 |
| 3 | P | Chloromethane | 0.742 | 0.781 | -5.3 | 96 | 0.00 |
| 4 | C | Vinyl Chloride | 0.691 | 0.713 | -3.2# | 96 | 0.00 |
| 5 | T | Bromomethane | 0.320 | 0.324 | -1.3 | 95 | 0.00 |
| 6 | T | Chloroethane | 0.369 | 0.385 | -4.3 | 97 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.021 | 1.073 | -5.1 | 96 | 0.00 |
| 8 | T | Diethyl Ether | 0.347 | 0.344 | 0.9 | 97 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.632 | 0.642 | -1.6 | 96 | 0.00 |
| 10 | T | Methyl Iodide | 0.747 | 0.799 | -7.0 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.131 | 0.132 | -0.8 | 98 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.593 | 0.606 | -2.2# | 96 | 0.00 |
| 13 | T | Acrolein | 0.149 | 0.139 | 6.7 | 87 | 0.00 |
| 14 | T | Allyl chloride | 1.133 | 1.175 | -3.7 | 95 | 0.00 |
| 15 | T | Acrylonitrile | 0.374 | 0.393 | -5.1 | 97 | 0.00 |
| 16 | T | Acetone | 0.374 | 0.367 | 1.9 | 97 | 0.00 |
| 17 | T | Carbon Disulfide | 1.406 | 1.433 | -1.9 | 94 | 0.00 |
| 18 | T | Methyl Acetate | 0.867 | 0.867 | 0.0 | 97 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.079 | 2.111 | -1.5 | 93 | 0.00 |
| 20 | T | Methylene Chloride | 0.716 | 0.684 | 4.5 | 95 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.596 | 0.602 | -1.0 | 94 | 0.00 |
| 22 | T | Diisopropyl ether | 2.189 | 2.268 | -3.6 | 95 | 0.00 |
| 23 | T | Vinyl Acetate | 1.925 | 2.045 | -6.2 | 95 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.219 | 1.239 | -1.6 | 94 | 0.00 |
| 25 | T | 2-Butanone | 0.543 | 0.558 | -2.8 | 96 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.954 | 0.953 | 0.1 | 95 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.718 | 0.731 | -1.8 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 0.587 | 0.598 | -1.9 | 99 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.340 | 0.354 | -4.1 | 96 | 0.00 |
| 30 | C | Chloroform | 1.271 | 1.305 | -2.7# | 96 | 0.00 |
| 31 | T | Cyclohexane | 1.111 | 1.114 | -0.3 | 94 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.101 | 1.126 | -2.3 | 95 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.932 | 0.904 | 3.0 | 95 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.360 | 0.358 | 0.6 | 98 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.484 | 0.479 | 1.0 | 94 | 0.00 |
| 37 | T | Ethyl Acetate | 0.598 | 0.606 | -1.3 | 96 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.544 | 0.542 | 0.4 | 94 | 0.00 |
| 39 | T | Methylcyclohexane | 0.623 | 0.620 | 0.5 | 94 | 0.00 |
| 40 | TM | Benzene | 1.417 | 1.439 | -1.6 | 95 | 0.00 |
| 41 | T | Methacrylonitrile | 0.313 | 0.344 | -9.9 | 96 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.612 | 0.622 | -1.6 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.912 | 0.952 | -4.4 | 96 | 0.00 |
| 44 | TM | Trichloroethene | 0.341 | 0.341 | 0.0 | 93 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.352 | 0.366 | -4.0# | 96 | 0.00 |
| 46 | T | Dibromomethane | 0.278 | 0.278 | 0.0 | 94 | 0.00 |
| 47 | T | Bromodichloromethane | 0.547 | 0.568 | -3.8 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 0.466 | 0.505 | -8.4 | 97 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 0.009 | 0.009 | 0.0 | 100 | 0.00 |
| 50 | S | Toluene-d8 | 1.246 | 1.221 | 2.0 | 97 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.605 | 0.627 | -3.6 | 96 | 0.00 |
| 52 | CM | Toluene | 0.869 | 0.889 | -2.3# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.487 | 0.515 | -5.7 | 94 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.538 | 0.569 | -5.8 | 95 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.343 | 0.349 | -1.7 | 95 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.546 | 0.589 | -7.9 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.615 | 0.613 | 0.3 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.278 | 0.296 | -6.5 | 93 | 0.00 |
| 59 | T | 2-Hexanone | 0.448 | 0.480 | -7.1 | 98 | 0.00 |
| 60 | T | Dibromochloromethane | 0.376 | 0.392 | -4.3 | 95 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.356 | 0.364 | -2.2 | 94 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.478 | 0.465 | 2.7 | 96 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 64 | T | Tetrachloroethene | 0.354 | 0.331 | 6.5 | 88 | 0.00 |
| 65 | PM | Chlorobenzene | 1.094 | 1.066 | 2.6 | 96 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.374 | 0.370 | 1.1 | 94 | 0.00 |
| 67 | C | Ethyl Benzene | 1.929 | 1.939 | -0.5# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 0.706 | 0.713 | -1.0 | 95 | 0.00 |
| 69 | T | o-Xylene | 0.688 | 0.699 | -1.6 | 95 | 0.00 |
| 70 | T | Styrene | 1.127 | 1.170 | -3.8 | 95 | 0.00 |
| 71 | P | Bromoform | 0.281 | 0.278 | 1.1 | 91 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 73 | T | Isopropylbenzene | 3.893 | 3.950 | -1.5 | 96 | 0.00 |
| 74 | T | N-amyl acetate | 1.924 | 2.016 | -4.8 | 98 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.364 | 1.305 | 4.3 | 98 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.204 | 1.169 | 2.9 | 99 | 0.00 |
| 77 | T | Bromobenzene | 0.904 | 0.878 | 2.9 | 95 | 0.00 |
| 78 | T | n-propylbenzene | 4.526 | 4.577 | -1.1 | 95 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.919 | 2.867 | 1.8 | 96 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.252 | 3.350 | -3.0 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.370 | 0.364 | 1.6 | 95 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.238 | 3.280 | -1.3 | 96 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.276 | 3.309 | -1.0 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.293 | 3.391 | -3.0 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.022 | 4.112 | -2.2 | 96 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.320 | 3.399 | -2.4 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.649 | 1.658 | -0.5 | 98 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.684 | 1.629 | 3.3 | 97 | 0.00 |
| 89 | T | n-Butylbenzene | 2.912 | 3.017 | -3.6 | 96 | 0.00 |
| 90 | T | Hexachloroethane | 0.585 | 0.584 | 0.2 | 94 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.655 | 1.634 | 1.3 | 97 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.302 | 0.311 | -3.0 | 97 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.951 | 0.944 | 0.7 | 97 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.415 | 0.402 | 3.1 | 95 | 0.00 |
| 95 | T | Naphthalene | 3.487 | 3.515 | -0.8 | 98 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 0.981 | 0.952 | 3.0 | 94 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 95 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 55.594 | -11.2 | 94 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 52.592 | -5.2 | 96 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 51.598 | -3.2# | 96 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 50.627 | -1.3 | 95 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 52.271 | -4.5 | 97 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 52.560 | -5.1 | 96 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 49.536 | 0.9 | 97 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 50.822 | -1.6 | 96 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 53.419 | -6.8 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 252.025 | -0.8 | 98 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 51.097 | -2.2# | 96 | 0.00 |
| 13 | T | Acrolein | 250.000 | 232.505 | 7.0 | 87 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 51.833 | -3.7 | 95 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 262.412 | -5.0 | 97 | 0.00 |
| 16 | T | Acetone | 250.000 | 245.518 | 1.8 | 97 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 50.981 | -2.0 | 94 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 49.968 | 0.1 | 97 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 50.777 | -1.6 | 93 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 47.779 | 4.4 | 95 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.513 | -1.0 | 94 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 51.800 | -3.6 | 95 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 265.585 | -6.2 | 95 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.825 | -1.7 | 94 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 257.110 | -2.8 | 96 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 49.934 | 0.1 | 95 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 50.956 | -1.9 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 50.975 | -2.0 | 99 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 259.958 | -4.0 | 96 | 0.00 |
| 30 | C | Chloroform | 50.000 | 51.332 | -2.7# | 96 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 50.147 | -0.3 | 94 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 51.108 | -2.2 | 95 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 48.509 | 3.0 | 95 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 97 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.683 | 0.6 | 98 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.521 | 1.0 | 94 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 50.714 | -1.4 | 96 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 49.825 | 0.3 | 94 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 49.757 | 0.5 | 94 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.759 | -1.5 | 95 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 55.076 | -10.2 | 96 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 50.861 | -1.7 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 52.195 | -4.4 | 96 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.018 | -0.0 | 93 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 51.983 | -4.0# | 96 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 49.978 | 0.0 | 94 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 51.889 | -3.8 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 54.226 | -8.5 | 97 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 1059.599 | -6.0 | 100 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 48.984 | 2.0 | 97 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 259.133 | -3.7 | 96 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.150 | -2.3# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 52.920 | -5.8 | 94 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 52.892 | -5.8 | 95 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 50.887 | -1.8 | 95 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 53.918 | -7.8 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.793 | 0.4 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 265.780 | -6.3 | 93 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 268.218 | -7.3 | 98 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 52.075 | -4.2 | 95 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 51.050 | -2.1 | 94 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 48.596 | 2.8 | 96 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 46.795 | 6.4 | 88 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 48.699 | 2.6 | 96 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 49.557 | 0.9 | 94 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 50.245 | -0.5# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 101.022 | -1.0 | 95 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 50.841 | -1.7 | 95 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.907 | -3.8 | 95 | 0.00 |
| 71 | P | Bromoform | 50.000 | 49.583 | 0.8 | 91 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 50.733 | -1.5 | 96 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 52.407 | -4.8 | 98 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 47.827 | 4.3 | 98 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 48.568 | 2.9 | 99 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 48.549 | 2.9 | 95 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 50.562 | -1.1 | 95 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.107 | 1.8 | 96 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.500 | -3.0 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 49.276 | 1.4 | 95 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 50.661 | -1.3 | 96 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.511 | -1.0 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.485 | -3.0 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.122 | -2.2 | 96 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 51.198 | -2.4 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.272 | -0.5 | 98 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.368 | 3.3 | 97 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 51.804 | -3.6 | 96 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 49.895 | 0.2 | 94 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 49.361 | 1.3 | 97 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.458 | -2.9 | 97 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 49.662 | 0.7 | 97 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 48.408 | 3.2 | 95 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 50.404 | -0.8 | 98 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 48.525 | 3.0 | 94 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG No.: Q2075

Instrument ID: MSVOA_Y Calibration Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 11:47

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

LAB FILE ID: RRF005 = VY022253.D RRF010 = VY022254.D RRF020 = VY022255.D
RRF050 = VY022256.D RRF100 = VY022257.D RRF150 = VY022258.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Benzene | 1.369 | 1.462 | 1.435 | 1.499 | 1.482 | 1.496 | 1.457 | 3.4 |
| Toluene | 0.871 | 0.924 | 0.890 | 0.944 | 0.947 | 0.961 | 0.923 | 3.8 |
| Ethyl Benzene | 2.014 | 2.043 | 2.049 | 2.175 | 2.173 | 2.222 | 2.113 | 4.1 |
| m/p-Xylenes | 0.749 | 0.770 | 0.763 | 0.818 | 0.825 | 0.852 | 0.796 | 5.2 |
| o-Xylene | 0.704 | 0.741 | 0.723 | 0.768 | 0.782 | 0.802 | 0.753 | 4.9 |
| Isopropylbenzene | 4.157 | 4.192 | 4.100 | 4.197 | 4.028 | 4.181 | 4.142 | 1.6 |
| n-propylbenzene | 5.031 | 5.047 | 4.904 | 5.127 | 4.865 | 5.006 | 4.996 | 1.9 |
| 1,3,5-Trimethylbenzene | 3.393 | 3.386 | 3.275 | 3.410 | 3.251 | 3.349 | 3.344 | 2 |
| tert-Butylbenzene | 3.037 | 2.974 | 2.900 | 3.029 | 2.879 | 3.014 | 2.972 | 2.3 |
| 1,2,4-Trimethylbenzene | 3.189 | 3.349 | 3.206 | 3.413 | 3.329 | 3.431 | 3.319 | 3.1 |
| sec-Butylbenzene | 4.390 | 4.461 | 4.318 | 4.573 | 4.307 | 4.421 | 4.412 | 2.2 |
| p-Isopropyltoluene | 3.598 | 3.610 | 3.573 | 3.818 | 3.754 | 3.911 | 3.710 | 3.7 |
| n-Butylbenzene | 3.419 | 3.500 | 3.491 | 3.668 | 3.452 | 3.533 | 3.510 | 2.5 |
| 1,2-Dichloroethane-d4 | 0.547 | 0.559 | 0.527 | 0.541 | 0.545 | 0.560 | 0.546 | 2.2 |
| Dibromofluoromethane | 0.294 | 0.294 | 0.294 | 0.301 | 0.297 | 0.310 | 0.298 | 2.2 |
| Toluene-d8 | 1.224 | 1.200 | 1.195 | 1.230 | 1.214 | 1.272 | 1.222 | 2.3 |
| 4-Bromofluorobenzene | 0.390 | 0.386 | 0.368 | 0.387 | 0.387 | 0.407 | 0.387 | 3.3 |

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

# Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y051525S.M
Title : SW846 8260
Last Update : Fri May 16 01:42:09 2025
Response Via : Initial Calibration

Calibration Files
5 =VY022253.D 10 =VY022254.D 20 =VY022255.D 50 =VY022256.D 100 =VY022257.D 150 =VY022258.D

| | | Compound | 5 | 10 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.546 | 0.587 | 0.541 | 0.507 | 0.470 | 0.479 | 0.522 | 8.51 |
| 3) | P | Chloromethane | 1.212 | 1.237 | 1.153 | 1.042 | 1.046 | 0.894 | 1.097 | 11.72 |
| 4) | C | Vinyl Chloride | 1.265 | 1.317 | 1.264 | 1.210 | 1.190 | 1.110 | 1.226 | 5.91# |
| 5) | T | Bromomethane | 1.107 | 1.033 | 1.058 | 0.877 | 0.955 | 0.959 | 0.998 | 8.33 |
| 6) | T | Chloroethane | 0.751 | 0.814 | 0.796 | 0.756 | 0.733 | 0.727 | 0.763 | 4.56 |
| 7) | T | Trichlorofluor... | 1.254 | 1.292 | 1.260 | 1.214 | 1.211 | 1.217 | 1.241 | 2.64 |
| 8) | T | Diethyl Ether | 0.305 | 0.320 | 0.283 | 0.294 | 0.295 | 0.291 | 0.298 | 4.33 |
| 9) | T | 1,1,2-Trichlor... | 0.548 | 0.577 | 0.544 | 0.538 | 0.507 | 0.520 | 0.539 | 4.50 |
| 10) | T | Methyl Iodide | 0.559 | 0.586 | 0.620 | 0.687 | 0.651 | 0.638 | 0.624 | 7.35 |
| 11) | T | Tert butyl alc... | 0.045 | 0.045 | 0.037 | 0.039 | 0.042 | 0.042 | 0.042 | 7.70 |
| 12) | CM | 1,1-Dichloroet... | 0.545 | 0.544 | 0.540 | 0.539 | 0.518 | 0.523 | 0.535 | 2.17# |
| 13) | T | Acrolein | 0.068 | 0.068 | 0.057 | 0.056 | 0.058 | 0.058 | 0.061 | 8.63 |
| 14) | T | Allyl chloride | 0.888 | 0.967 | 0.949 | 0.959 | 0.932 | 0.931 | 0.938 | 3.00 |
| 15) | T | Acrylonitrile | 0.123 | 0.126 | 0.115 | 0.120 | 0.127 | 0.126 | 0.123 | 3.79 |
| 16) | T | Acetone | 0.126 | 0.114 | 0.096 | 0.093 | 0.094 | 0.092 | 0.102 | 13.64 |
| 17) | T | Carbon Disulfide | 1.768 | 1.822 | 1.764 | 1.753 | 1.679 | 1.679 | 1.744 | 3.20 |
| 18) | T | Methyl Acetate | 0.349 | 0.308 | 0.286 | 0.302 | 0.346 | 0.347 | 0.323 | 8.55 |
| 19) | T | Methyl tert-bu... | 1.463 | 1.523 | 1.393 | 1.459 | 1.504 | 1.507 | 1.475 | 3.22 |
| 20) | T | Methylene Chlo... | 0.797 | 0.811 | 0.646 | 0.597 | 0.570 | 0.552 | 0.662 | 17.28 |
| 21) | T | trans-1,2-Dich... | 0.577 | 0.609 | 0.603 | 0.592 | 0.580 | 0.581 | 0.590 | 2.22 |
| 22) | T | Diisopropyl ether | 1.947 | 2.009 | 1.937 | 1.986 | 2.003 | 2.001 | 1.980 | 1.57 |
| 23) | T | Vinyl Acetate | 1.214 | 1.225 | 1.134 | 1.174 | 1.214 | 1.218 | 1.196 | 2.99 |
| 24) | P | 1,1-Dichloroet... | 1.112 | 1.136 | 1.099 | 1.117 | 1.093 | 1.082 | 1.106 | 1.73 |
| 25) | T | 2-Butanone | 0.180 | 0.181 | 0.158 | 0.161 | 0.174 | 0.174 | 0.171 | 5.60 |
| 26) | T | 2,2-Dichloropr... | 0.994 | 1.024 | 0.971 | 0.987 | 0.961 | 0.968 | 0.984 | 2.33 |
| 27) | T | cis-1,2-Dichlo... | 0.662 | 0.687 | 0.668 | 0.691 | 0.687 | 0.693 | 0.681 | 1.91 |
| 28) | T | Bromochloromet... | 0.463 | 0.484 | 0.467 | 0.473 | 0.469 | 0.476 | 0.472 | 1.62 |
| 29) | T | Tetrahydrofuran | 0.105 | 0.116 | 0.102 | 0.107 | 0.116 | 0.116 | 0.110 | 5.98 |
| 30) | C | Chloroform | 1.032 | 1.079 | 1.067 | 1.079 | 1.054 | 1.057 | 1.061 | 1.66# |
| 31) | T | Cyclohexane | 1.300 | 1.191 | 1.077 | 1.055 | 0.998 | 1.011 | 1.105 | 10.63 |
| 32) | T | 1,1,1-Trichlor... | 1.007 | 0.997 | 0.960 | 0.969 | 0.944 | 0.964 | 0.974 | 2.43 |
| 33) | S | 1,2-Dichloroet... | 0.547 | 0.559 | 0.527 | 0.541 | 0.545 | 0.560 | 0.546 | 2.24 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | 0.294 | 0.294 | 0.294 | 0.301 | 0.297 | 0.310 | 0.298 | 2.17 |
| 36) | T | 1,1-Dichloropr... | 0.474 | 0.502 | 0.488 | 0.505 | 0.484 | 0.496 | 0.492 | 2.39 |
| 37) | T | Ethyl Acetate | 0.253 | 0.231 | 0.219 | 0.234 | 0.240 | 0.241 | 0.237 | 4.87 |
| 38) | T | Carbon Tetrach... | 0.485 | 0.524 | 0.494 | 0.516 | 0.509 | 0.524 | 0.509 | 3.18 |
| 39) | T | Methylcyclohexane | 0.664 | 0.678 | 0.645 | 0.670 | 0.639 | 0.667 | 0.660 | 2.30 |
| 40) | TM | Benzene | 1.369 | 1.462 | 1.435 | 1.499 | 1.482 | 1.496 | 1.457 | 3.37 |
| 41) | T | Methacrylonitrile | 0.153 | 0.182 | 0.148 | 0.158 | 0.148 | 0.152 | 0.157 | 8.18 |
| 42) | TM | 1,2-Dichloroet... | 0.381 | 0.399 | 0.378 | 0.402 | 0.403 | 0.402 | 0.394 | 2.86 |
| 43) | T | Isopropyl Acetate | 0.510 | 0.527 | 0.480 | 0.514 | 0.534 | 0.530 | 0.516 | 3.83 |
| 44) | TM | Trichloroethene | 0.358 | 0.366 | 0.361 | 0.371 | 0.356 | 0.363 | 0.362 | 1.48 |
| 45) | C | 1,2-Dichloropr... | 0.337 | 0.361 | 0.344 | 0.357 | 0.354 | 0.355 | 0.351 | 2.58# |
| 46) | T | Dibromomethane | 0.189 | 0.192 | 0.180 | 0.189 | 0.193 | 0.194 | 0.189 | 2.59 |
| 47) | T | Bromodichlorom... | 0.466 | 0.494 | 0.476 | 0.506 | 0.504 | 0.504 | 0.492 | 3.42 |
| 48) | T | Methyl methacr... | 0.228 | 0.238 | 0.224 | 0.240 | 0.259 | 0.259 | 0.241 | 6.19 |
| 49) | T | 1,4-Dioxane | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 4.33 |
| 50) | S | Toluene-d8 | 1.224 | 1.200 | 1.195 | 1.230 | 1.214 | 1.272 | 1.222 | 2.26 |
| 51) | T | 4-Methyl-2-Pen... | 0.238 | 0.247 | 0.230 | 0.253 | 0.275 | 0.275 | 0.253 | 7.43 |
| 52) | CM | Toluene | 0.871 | 0.924 | 0.890 | 0.944 | 0.947 | 0.961 | 0.923 | 3.82# |
| 53) | T | t-1,3-Dichloro... | 0.464 | 0.473 | 0.457 | 0.487 | 0.498 | 0.499 | 0.480 | 3.71 |
| 54) | T | cis-1,3-Dichlo... | 0.523 | 0.548 | 0.535 | 0.562 | 0.562 | 0.568 | 0.550 | 3.22 |
| 55) | T | 1,1,2-Trichlor... | 0.241 | 0.243 | 0.232 | 0.243 | 0.248 | 0.249 | 0.243 | 2.42 |
| 56) | T | Ethyl methacry... | 0.370 | 0.362 | 0.354 | 0.381 | 0.398 | 0.403 | 0.378 | 5.26 |

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y051525S.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.418 | 0.436 | 0.413 | 0.438 | 0.442 | 0.440 | 0.431 | 2.80 |
| 58) | T | 2-Chloroethyl ... | 0.141 | 0.150 | 0.144 | 0.183 | 0.197 | 0.203 | 0.170 | 16.60 |
| 59) | T | 2-Hexanone | 0.167 | 0.167 | 0.151 | 0.166 | 0.183 | 0.185 | 0.170 | 7.38 |
| 60) | T | Dibromochlorom... | 0.296 | 0.314 | 0.298 | 0.323 | 0.329 | 0.330 | 0.315 | 4.88 |
| 61) | T | 1,2-Dibromoethane | 0.221 | 0.228 | 0.214 | 0.227 | 0.234 | 0.232 | 0.226 | 3.22 |
| 62) | S | 4-Bromofluorob... | 0.390 | 0.386 | 0.368 | 0.387 | 0.387 | 0.407 | 0.387 | 3.25 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.474 | 0.481 | 0.470 | 0.474 | 0.446 | 0.429 | 0.462 | 4.37 |
| 65) | PM | Chlorobenzene | 1.112 | 1.110 | 1.106 | 1.154 | 1.143 | 1.143 | 1.128 | 1.87 |
| 66) | T | 1,1,1,2-Tetrac... | 0.373 | 0.377 | 0.372 | 0.394 | 0.399 | 0.411 | 0.388 | 4.14 |
| 67) | C | Ethyl Benzene | 2.014 | 2.043 | 2.049 | 2.175 | 2.173 | 2.222 | 2.113 | 4.13# |
| 68) | T | m/p-Xylenes | 0.749 | 0.770 | 0.763 | 0.818 | 0.825 | 0.852 | 0.796 | 5.16 |
| 69) | T | o-Xylene | 0.704 | 0.741 | 0.723 | 0.768 | 0.782 | 0.802 | 0.753 | 4.93 |
| 70) | T | Styrene | 1.182 | 1.214 | 1.210 | 1.303 | 1.335 | 1.380 | 1.270 | 6.28 |
| 71) | P | Bromoform | 0.202 | 0.214 | 0.194 | 0.209 | 0.219 | 0.217 | 0.209 | 4.53 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 4.157 | 4.192 | 4.100 | 4.197 | 4.028 | 4.181 | 4.142 | 1.60 |
| 74) | T | N-amyl acetate | 1.195 | 1.173 | 1.114 | 1.159 | 1.235 | 1.232 | 1.185 | 3.91 |
| 75) | P | 1,1,2,2-Tetrac... | 0.656 | 0.647 | 0.581 | 0.628 | 0.645 | 0.666 | 0.637 | 4.77 |
| 76) | T | 1,2,3-Trichlor... | 0.522 | 0.467 | 0.516 | 0.501 | 0.521 | 0.514 | 0.507 | 4.12 |
| 77) | T | Bromobenzene | 0.887 | 0.885 | 0.848 | 0.895 | 0.889 | 0.904 | 0.885 | 2.17 |
| 78) | T | n-propylbenzene | 5.031 | 5.047 | 4.904 | 5.127 | 4.865 | 5.006 | 4.996 | 1.93 |
| 79) | T | 2-Chlorotoluene | 2.715 | 2.786 | 2.694 | 2.804 | 2.704 | 2.772 | 2.746 | 1.71 |
| 80) | T | 1,3,5-Trimethy... | 3.393 | 3.386 | 3.275 | 3.410 | 3.251 | 3.349 | 3.344 | 1.98 |
| 81) | T | trans-1,4-Dich... | 0.269 | 0.260 | 0.241 | 0.237 | 0.246 | 0.248 | 0.250 | 4.80 |
| 82) | T | 4-Chlorotoluene | 2.801 | 2.829 | 2.744 | 2.907 | 2.797 | 2.867 | 2.824 | 2.02 |
| 83) | T | tert-Butylbenzene | 3.037 | 2.974 | 2.900 | 3.029 | 2.879 | 3.014 | 2.972 | 2.29 |
| 84) | T | 1,2,4-Trimethy... | 3.189 | 3.349 | 3.206 | 3.413 | 3.329 | 3.431 | 3.319 | 3.07 |
| 85) | T | sec-Butylbenzene | 4.390 | 4.461 | 4.318 | 4.573 | 4.307 | 4.421 | 4.412 | 2.24 |
| 86) | T | p-Isopropyltol... | 3.598 | 3.610 | 3.573 | 3.818 | 3.754 | 3.911 | 3.710 | 3.72 |
| 87) | T | 1,3-Dichlorobe... | 1.757 | 1.774 | 1.715 | 1.838 | 1.839 | 1.914 | 1.806 | 3.96 |
| 88) | T | 1,4-Dichlorobe... | 1.759 | 1.765 | 1.706 | 1.750 | 1.723 | 1.720 | 1.737 | 1.39 |
| 89) | T | n-Butylbenzene | 3.419 | 3.500 | 3.490 | 3.668 | 3.452 | 3.533 | 3.510 | 2.47 |
| 90) | T | Hexachloroethane | 0.773 | 0.759 | 0.736 | 0.761 | 0.726 | 0.740 | 0.749 | 2.36 |
| 91) | T | 1,2-Dichlorobe... | 1.526 | 1.520 | 1.479 | 1.534 | 1.520 | 1.523 | 1.517 | 1.27 |
| 92) | T | 1,2-Dibromo-3-... | 0.107 | 0.104 | 0.093 | 0.100 | 0.109 | 0.104 | 0.103 | 5.68 |
| 93) | T | 1,2,4-Trichlor... | 0.860 | 0.845 | 0.848 | 0.900 | 0.904 | 0.902 | 0.876 | 3.23 |
| 94) | T | Hexachlorobuta... | 0.511 | 0.485 | 0.496 | 0.502 | 0.474 | 0.464 | 0.489 | 3.56 |
| 95) | T | Naphthalene | 1.704 | 1.579 | 1.527 | 1.653 | 1.778 | 1.737 | 1.663 | 5.78 |
| 96) | T | 1,2,3-Trichlor... | 0.753 | 0.721 | 0.702 | 0.752 | 0.777 | 0.756 | 0.743 | 3.64 |

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022253.D
Acq On : 15 May 2025 09:46
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:20:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 276170 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 470488 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 385399 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 174003 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 15118 | 5.009 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 10.020%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 13854 | 4.933 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 9.860%# | | | |
| 50) Toluene-d8 | 10.109 | 98 | 57575 | 5.006 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 10.020%# | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 18328 | 5.028 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 10.060%# | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 15071 | 5.230 | ug/l | | 96 |
| 3) Chloromethane | 2.068 | 50 | 33477 | 5.523 | ug/l | | 100 |
| 4) Vinyl Chloride | 2.208 | 62 | 34943 | 5.159 | ug/l | | 96 |
| 5) Bromomethane | 2.598 | 94 | 30561 | 5.543 | ug/l | | 99 |
| 6) Chloroethane | 2.739 | 64 | 20741 | 4.923 | ug/l | | 97 |
| 7) Trichlorofluoromethane | 3.056 | 101 | 34641 | 5.052 | ug/l | | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 8435 | 5.126 | ug/l | | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 15124 | 5.081 | ug/l | | 95 |
| 10) Methyl Iodide | 4.013 | 142 | 15449 | 4.484 | ug/l | | 99 |
| 11) Tert butyl alcohol | 4.879 | 59 | 6159 | 26.722 | ug/l | # | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 15064 | 5.099 | ug/l | | 93 |
| 13) Acrolein | 3.653 | 56 | 9366 | 27.796 | ug/l | | 94 |
| 14) Allyl chloride | 4.385 | 41 | 24537 | 4.737 | ug/l | | 94 |
| 15) Acrylonitrile | 5.061 | 53 | 17036 | 25.125 | ug/l | | 100 |
| 16) Acetone | 3.879 | 43 | 17340 | 30.639 | ug/l | | 91 |
| 17) Carbon Disulfide | 4.110 | 76 | 48817 | 5.068 | ug/l | | 99 |
| 18) Methyl Acetate | 4.391 | 43 | 9639m | 5.597 | ug/l | | |
| 19) Methyl tert-butyl Ether | 5.128 | 73 | 40392 | 4.959 | ug/l | | 97 |
| 20) Methylene Chloride | 4.610 | 84 | 22002 | 6.016 | ug/l | | 93 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 15943 | 4.889 | ug/l | | 85 |
| 22) Diisopropyl ether | 6.025 | 45 | 53760 | 4.915 | ug/l | | 97 |
| 23) Vinyl Acetate | 5.964 | 43 | 167594 | 25.361 | ug/l | | 96 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 30712 | 5.026 | ug/l | | 97 |
| 25) 2-Butanone | 6.903 | 43 | 24805 | 26.203 | ug/l | | 91 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 27440 | 5.048 | ug/l | | 97 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 18276 | 4.857 | ug/l | | 98 |
| 28) Bromochloromethane | 7.250 | 49 | 12774 | 4.901 | ug/l | | 98 |
| 29) Tetrahydrofuran | 7.268 | 42 | 14502 | 23.811 | ug/l | | 93 |
| 30) Chloroform | 7.421 | 83 | 28505 | 4.863 | ug/l | | 94 |
| 31) Cyclohexane | 7.701 | 56 | 35904 | 5.880 | ug/l | # | 89 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 27801 | 5.170 | ug/l | | 96 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 22314 | 4.824 | ug/l | | 97 |
| 37) Ethyl Acetate | 6.994 | 43 | 11910 | 5.352 | ug/l | | 96 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 22826 | 4.768 | ug/l | | 98 |
| 39) Methylcyclohexane | 9.109 | 83 | 31218 | 5.024 | ug/l | | 98 |
| 40) Benzene | 8.085 | 78 | 64430 | 4.699 | ug/l | | 94 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022253.D
Acq On : 15 May 2025 09:46
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 01:20:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.244 | 41 | 7201m | 4.422 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 17934 | 4.837 | ug/l | | 97 |
| 43) Isopropyl Acetate | 8.201 | 43 | 23979 | 4.941 | ug/l | | 99 |
| 44) Trichloroethene | 8.872 | 130 | 16852 | 4.943 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 15855 | 4.796 | ug/l | | 95 |
| 46) Dibromomethane | 9.238 | 93 | 8879 | 4.980 | ug/l | | 92 |
| 47) Bromodichloromethane | 9.427 | 83 | 21906 | 4.736 | ug/l | # | 95 |
| 48) Methyl methacrylate | 9.225 | 41 | 10729 | 4.727 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.244 | 88 | 1962 | 97.404 | ug/l | # | 78 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 55880 | 23.464 | ug/l | | 97 |
| 52) Toluene | 10.170 | 92 | 41001 | 4.722 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 21842 | 4.839 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 24609 | 4.758 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 11333 | 4.964 | ug/l | # | 89 |
| 56) Ethyl methacrylate | 10.438 | 69 | 17420 | 4.898 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 19684 | 4.852 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 33215 | 20.807 | ug/l | | 100 |
| 59) 2-Hexanone | 10.762 | 43 | 39307 | 24.617 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.914 | 129 | 13908 | 4.693 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 10391 | 4.883 | ug/l | | 94 |
| 64) Tetrachloroethene | 10.652 | 164 | 18255 | 5.125 | ug/l | | 96 |
| 65) Chlorobenzene | 11.444 | 112 | 42844 | 4.927 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 14385 | 4.812 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.524 | 91 | 77606 | 4.766 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 57721 | 9.407 | ug/l | | 99 |
| 69) o-Xylene | 11.957 | 106 | 27130 | 4.673 | ug/l | | 99 |
| 70) Styrene | 11.975 | 104 | 45556 | 4.652 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 7799 | 4.834 | ug/l | # | 94 |
| 73) Isopropylbenzene | 12.255 | 105 | 72325 | 5.017 | ug/l | | 98 |
| 74) N-amyl acetate | 12.072 | 43 | 20793 | 5.043 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 11422 | 5.152 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 9076m | 2.960 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 15441 | 5.015 | ug/l | | 97 |
| 78) n-propylbenzene | 12.597 | 91 | 87533 | 5.034 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 47245 | 4.944 | ug/l | | 97 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 59031 | 5.073 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 4676 | 5.373 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 48737 | 4.959 | ug/l | | 98 |
| 83) tert-Butylbenzene | 12.999 | 119 | 52841 | 5.109 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 55488 | 4.804 | ug/l | | 97 |
| 85) sec-Butylbenzene | 13.176 | 105 | 76384 | 4.975 | ug/l | | 97 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 62608 | 4.849 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 30564 | 4.863 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 30610 | 5.063 | ug/l | | 96 |
| 89) n-Butylbenzene | 13.621 | 91 | 59485 | 4.869 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 13445 | 5.158 | ug/l | | 96 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 26556 | 5.030 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 1865 | 5.217 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 14961 | 4.906 | ug/l | | 94 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 8887 | 5.226 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 29654 | 5.124 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 13097 | 5.063 | ug/l | | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022253.D
Acq On : 15 May 2025 09:46
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:20:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

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

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

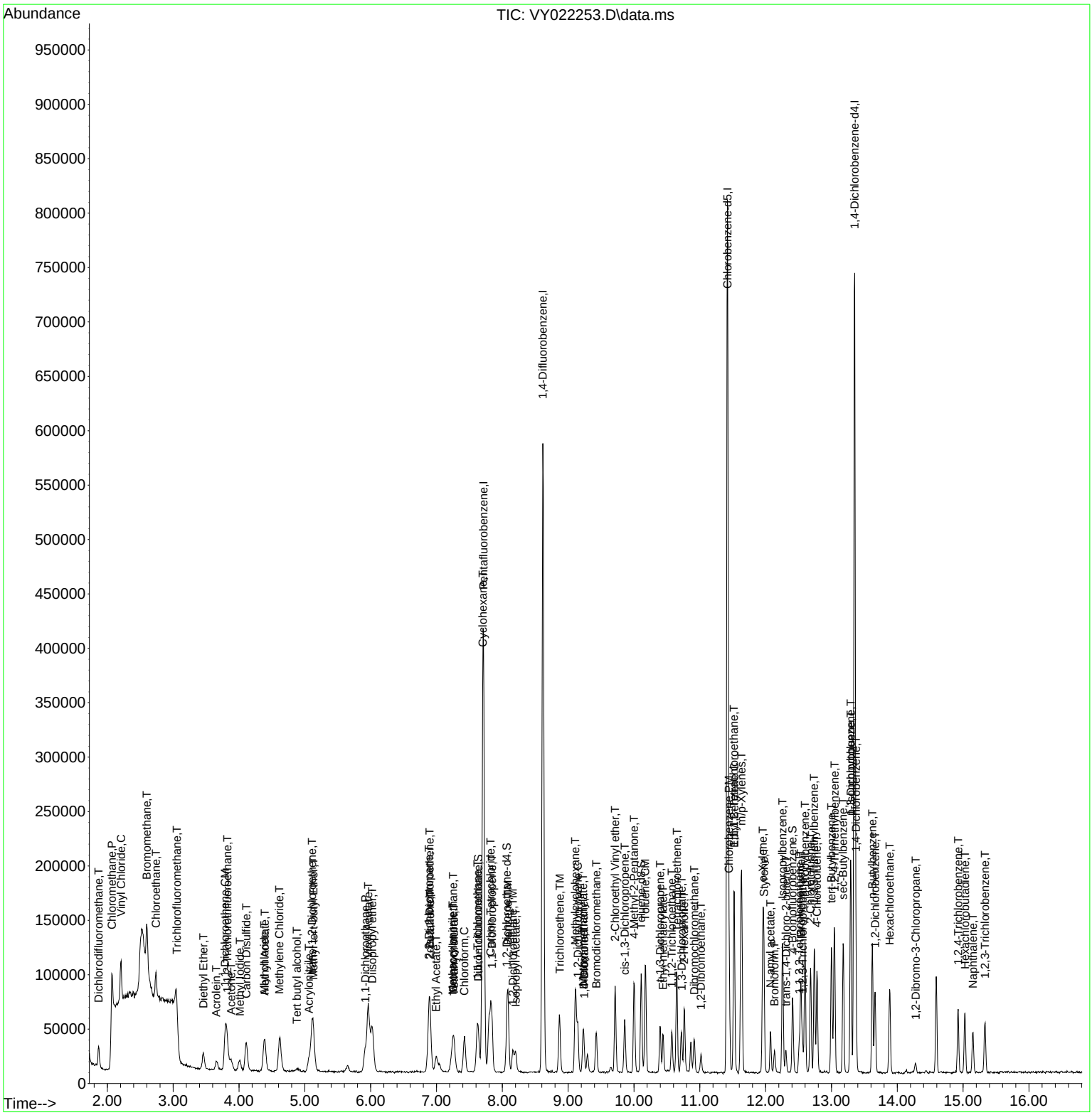
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022253.D
Acq On : 15 May 2025 09:46
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

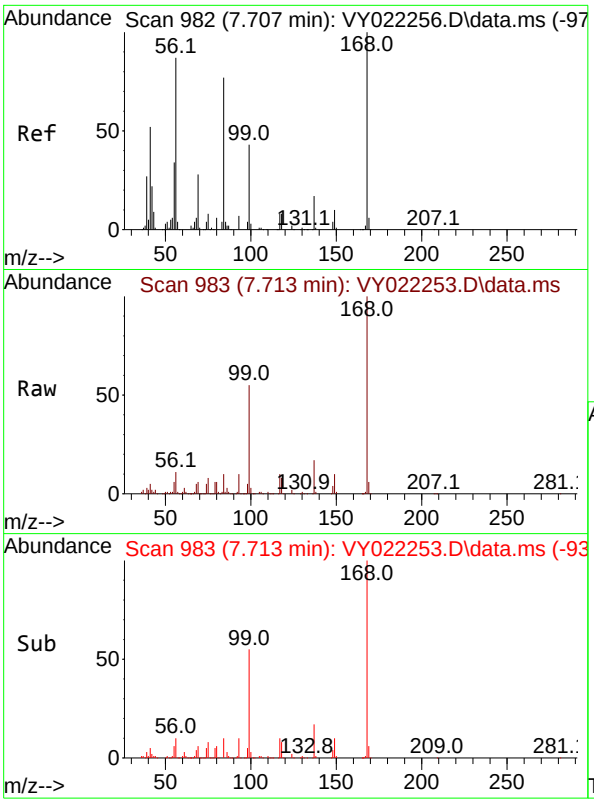
Quant Time: May 16 01:20:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

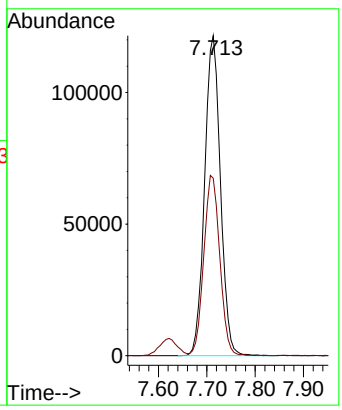
Tgt Ion:168 Resp: 27617

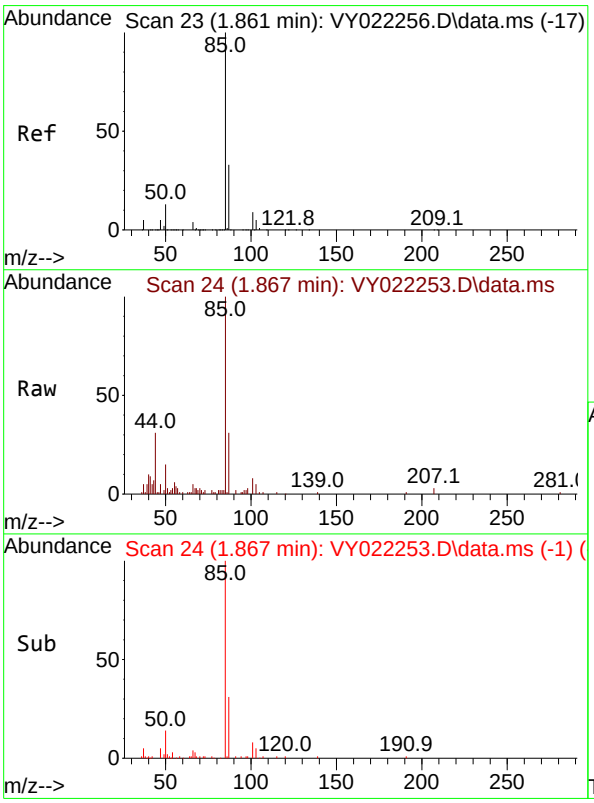
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.4 | 44.2 | 66.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

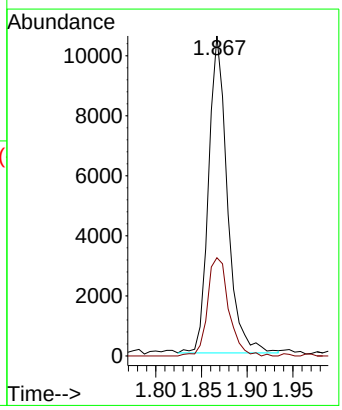


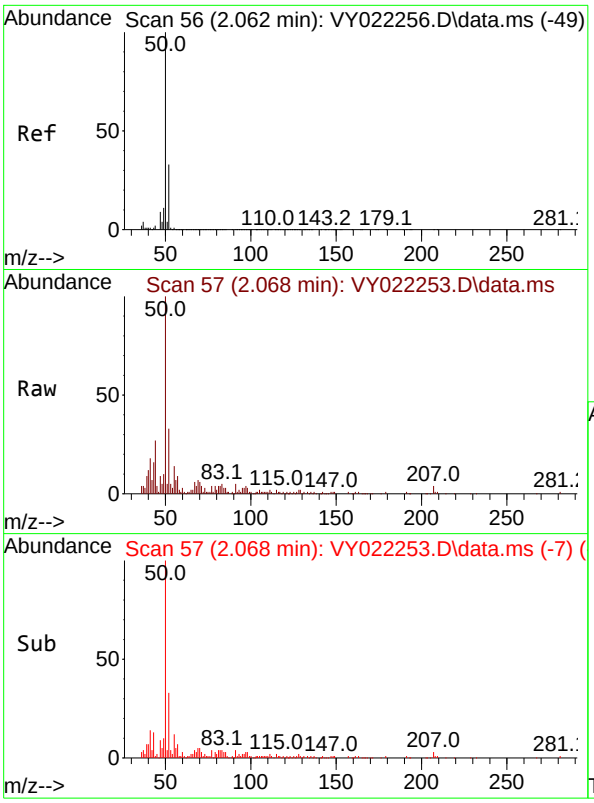




#2
Dichlorodifluoromethane
Concen: 5.230 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 85 Resp: 15071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.0 | 16.5 | 49.5 |

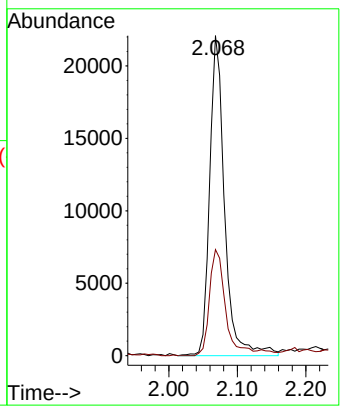





#3
Chloromethane
Concen: 5.523 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 50 Resp: 3347

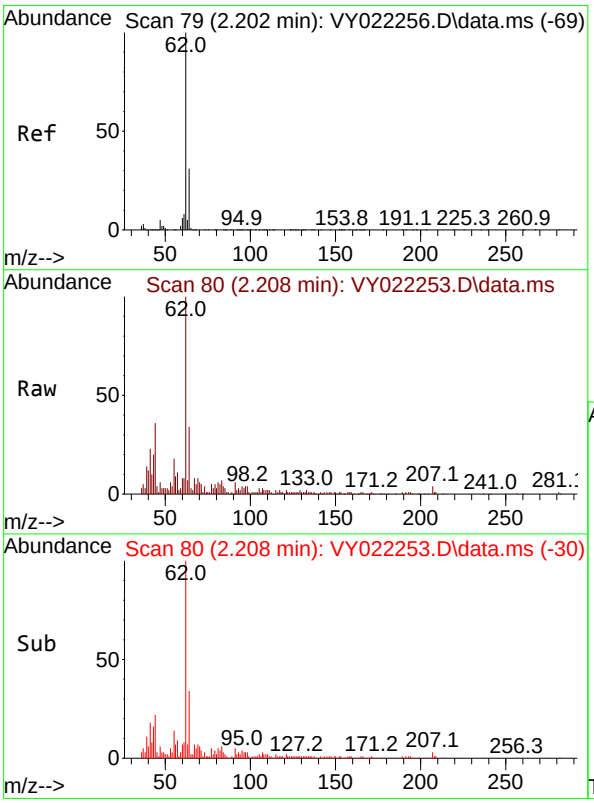
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.2 | 26.5 | 39.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

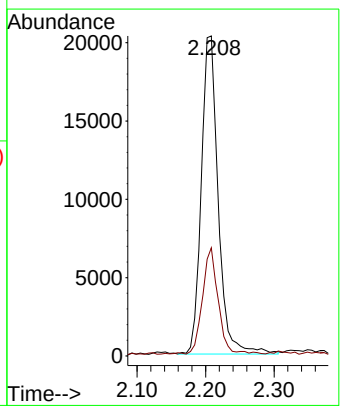
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

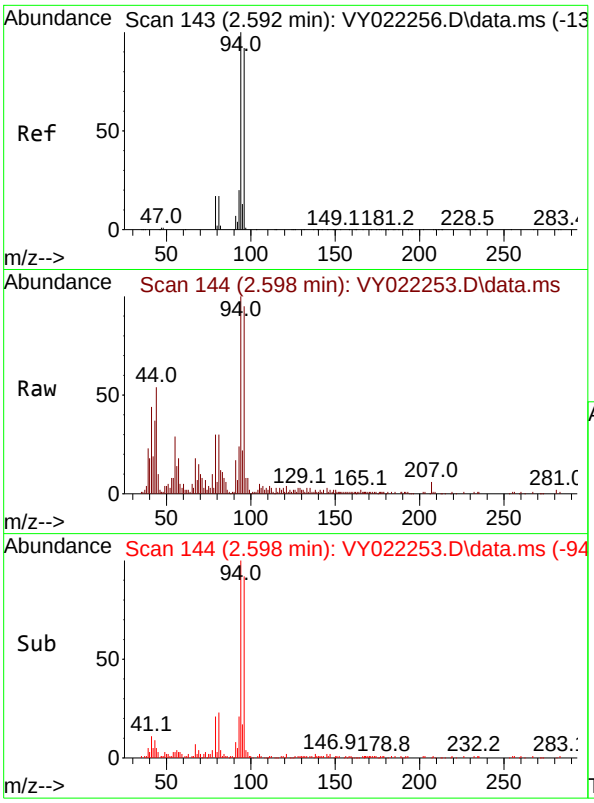



#4
Vinyl Chloride
Concen: 5.159 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 62 Resp: 34943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.0 | 24.5 | 36.7 |

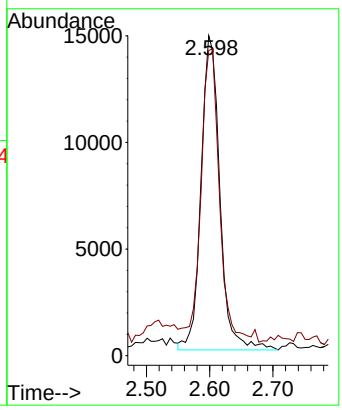





#5
Bromomethane
Concen: 5.543 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 94 Resp: 3056

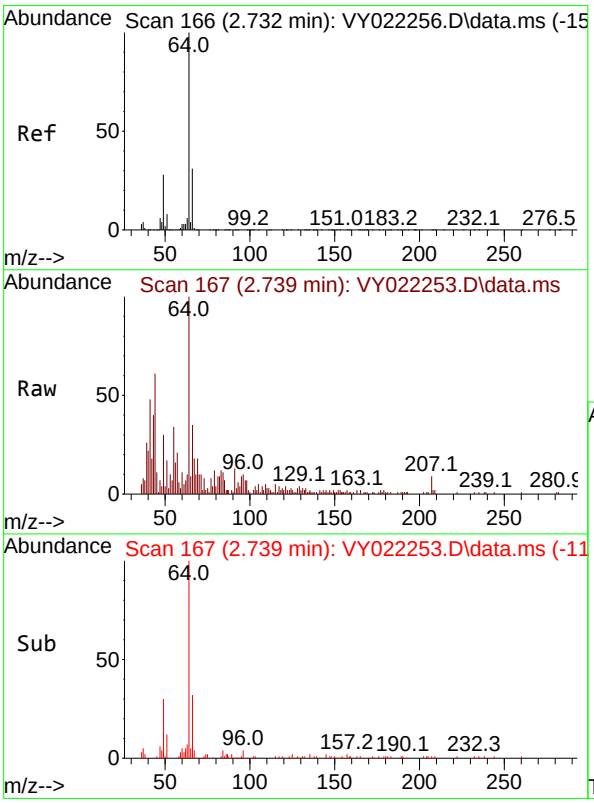
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 90.7 | 73.4 | 110.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

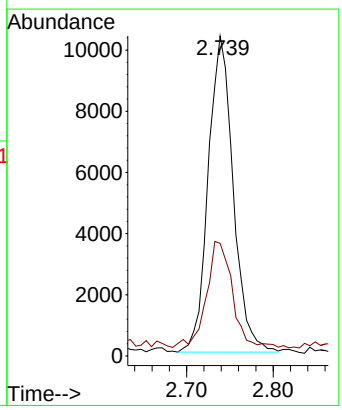
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

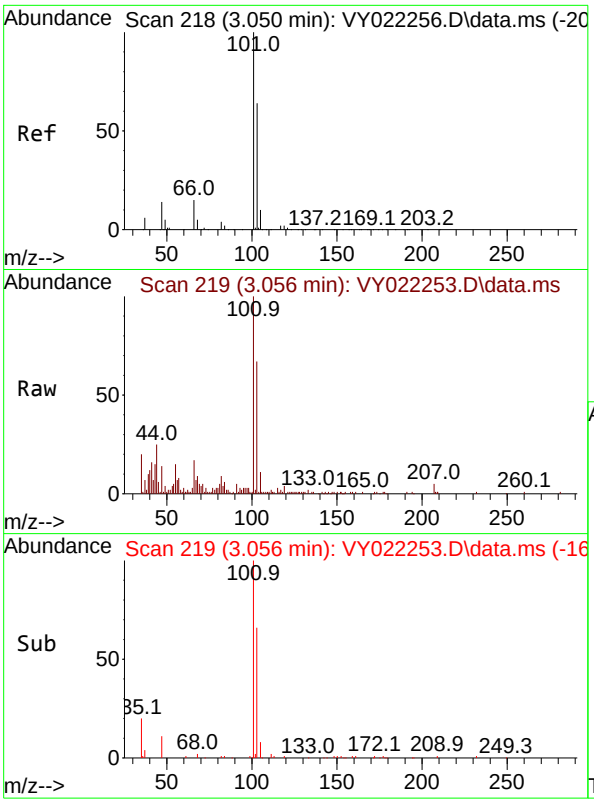



#6
Chloroethane
Concen: 4.923 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 64 Resp: 20741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.8 | 24.8 | 37.2 |

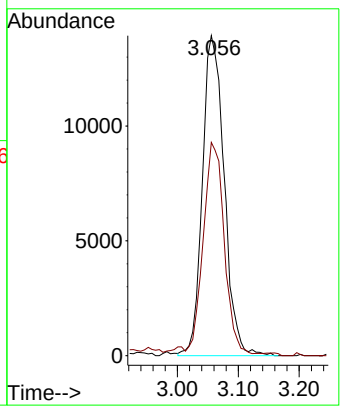





#7
Trichlorofluoromethane
Concen: 5.052 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:101 Resp: 3464

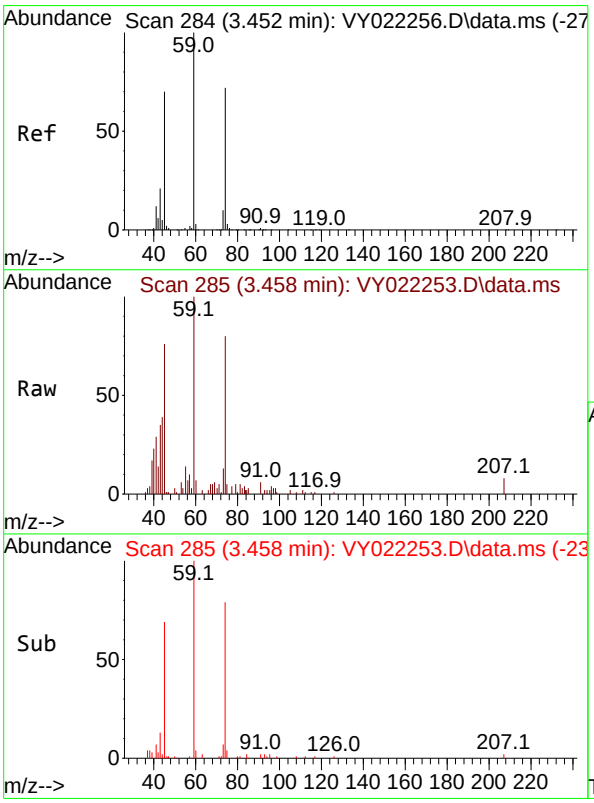
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.0 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

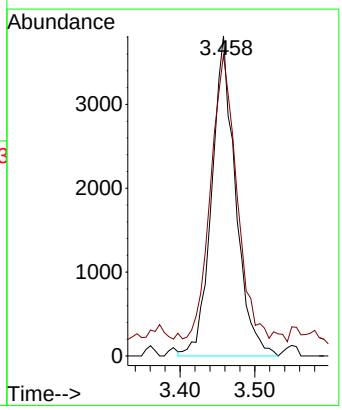
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

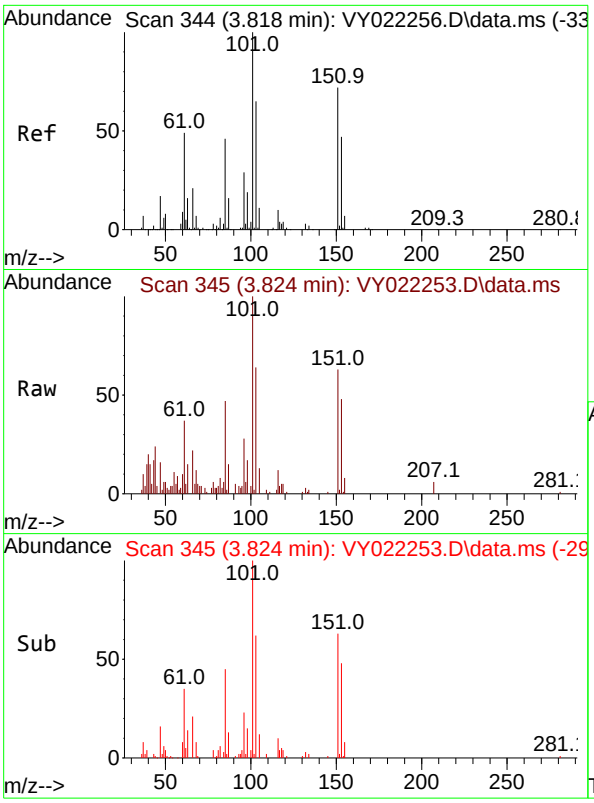



#8
Diethyl Ether
Concen: 5.126 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 74 Resp: 8435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 96.3 | 48.6 | 145.8 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.081 ug/l
RT: 3.824 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

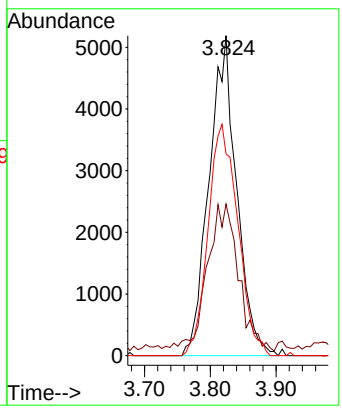
Tgt Ion:101 Resp: 1512

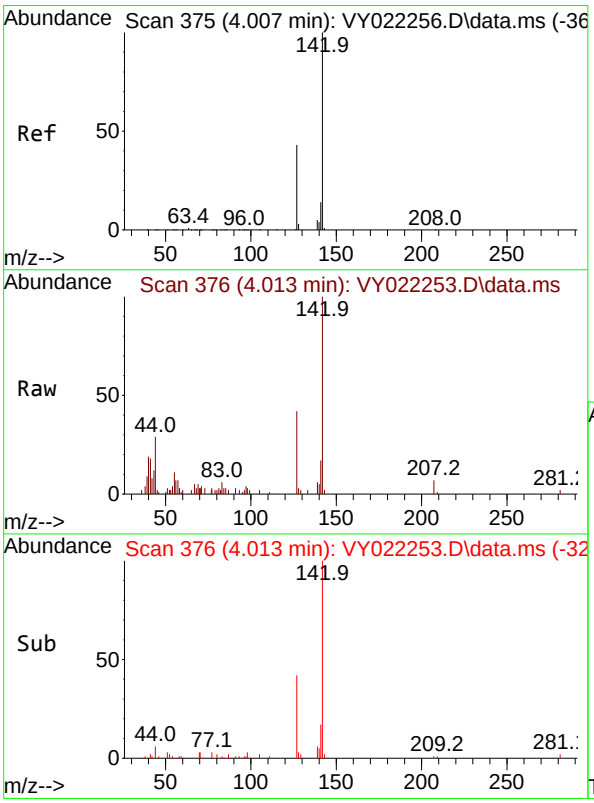
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 52.5 | 38.6 | 58.0 |
| 151 | 78.0 | 59.7 | 89.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

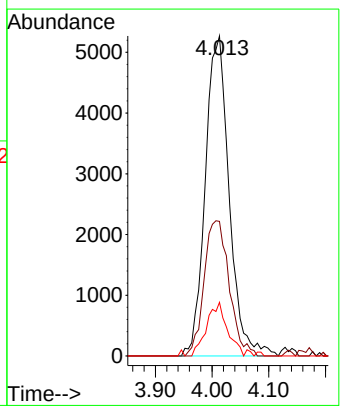


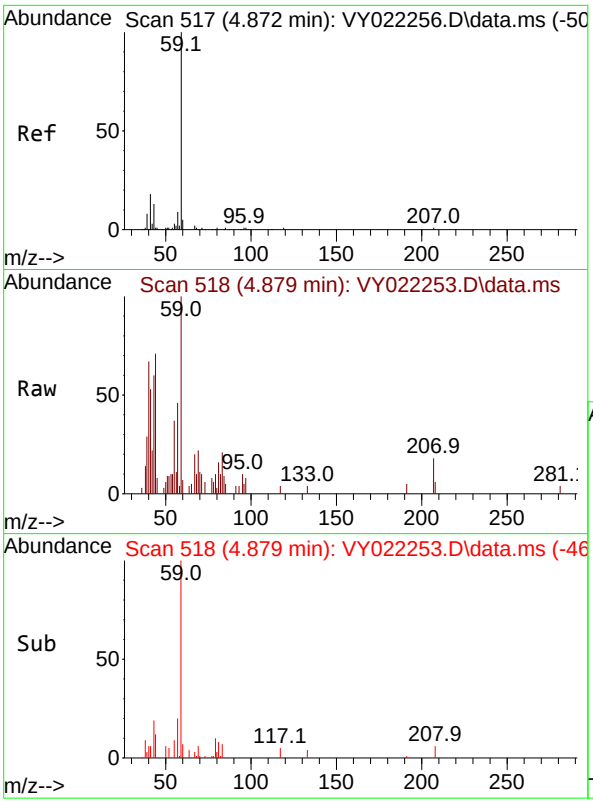




#10
Methyl Iodide
Concen: 4.484 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:142 Resp: 15449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.4 | 35.7 | 53.5 |
| 141 | 14.4 | 11.1 | 16.7 |

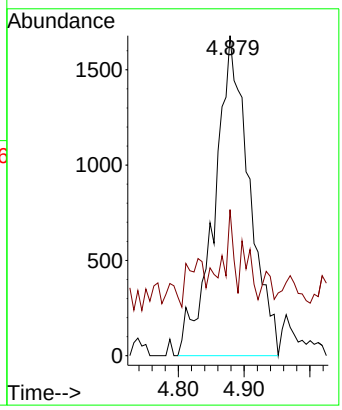





#11
Tert butyl alcohol
Concen: 26.722 ug/l
RT: 4.879 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 59 Resp: 615

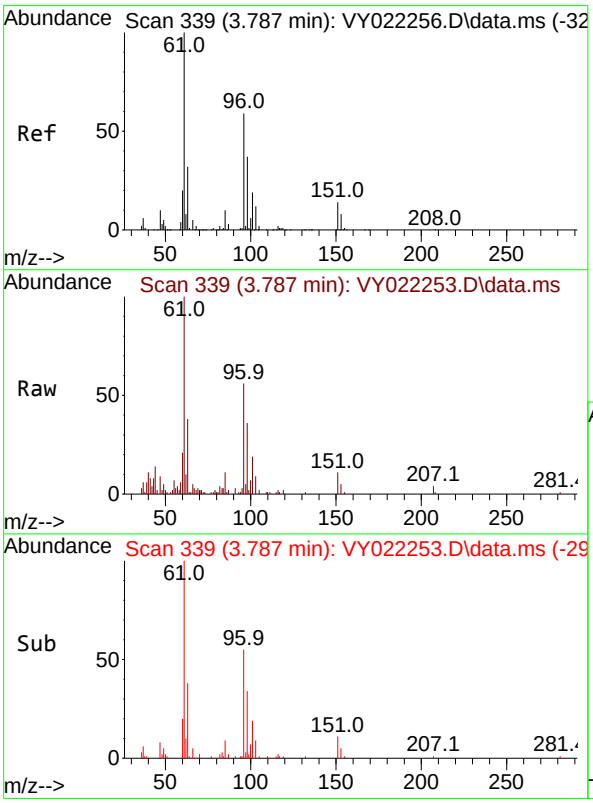
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 5.4 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

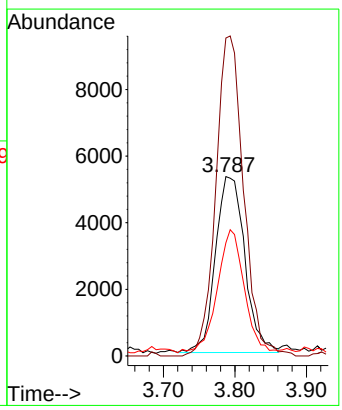
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

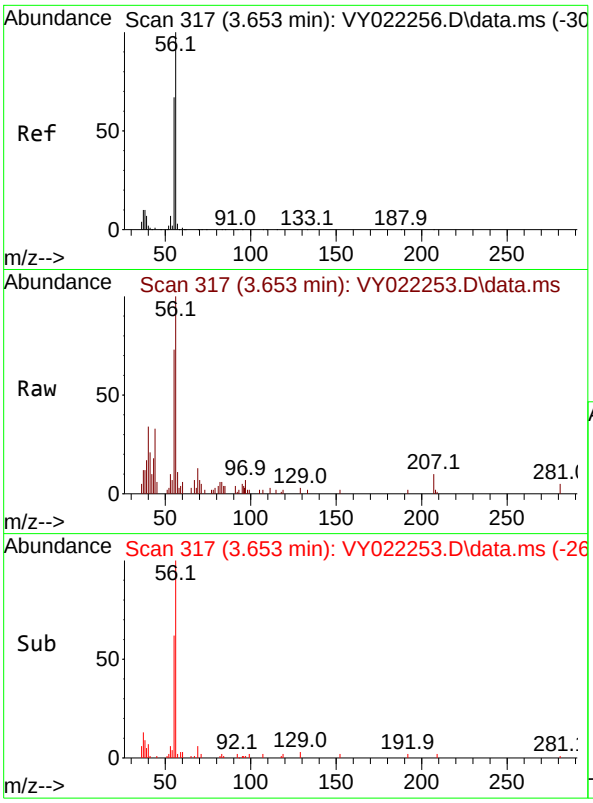



#12
1,1-Dichloroethene
Concen: 5.099 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 96 Resp: 15064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 180.8 | 134.9 | 202.3 |
| 98 | 62.6 | 49.9 | 74.9 |

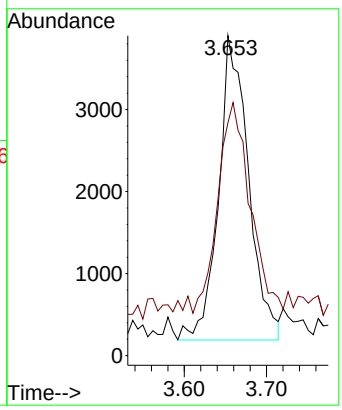





#13
Acrolein
Concen: 27.796 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 56 Resp: 936

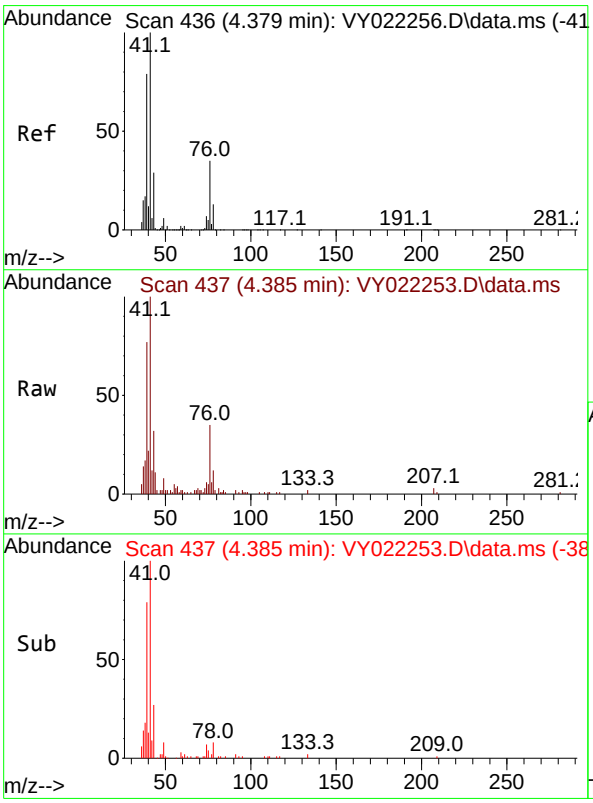
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 74.6 | 55.6 | 83.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

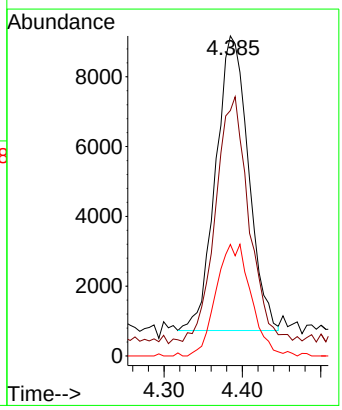
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

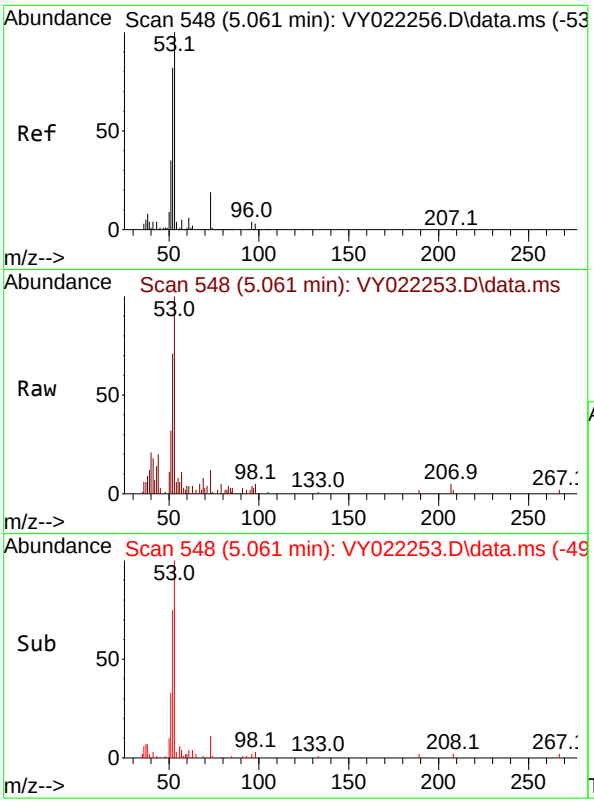



#14
Allyl chloride
Concen: 4.737 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 41 Resp: 24537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 83.9 | 63.4 | 95.0 |
| 76 | 40.5 | 29.5 | 44.3 |

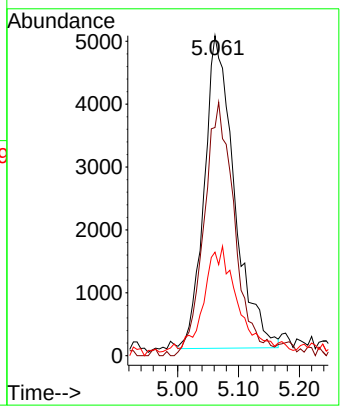





#15
Acrylonitrile
Concen: 25.125 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 53 Resp: 1703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.3 | 66.1 | 99.1 |
| 51 | 38.0 | 30.0 | 45.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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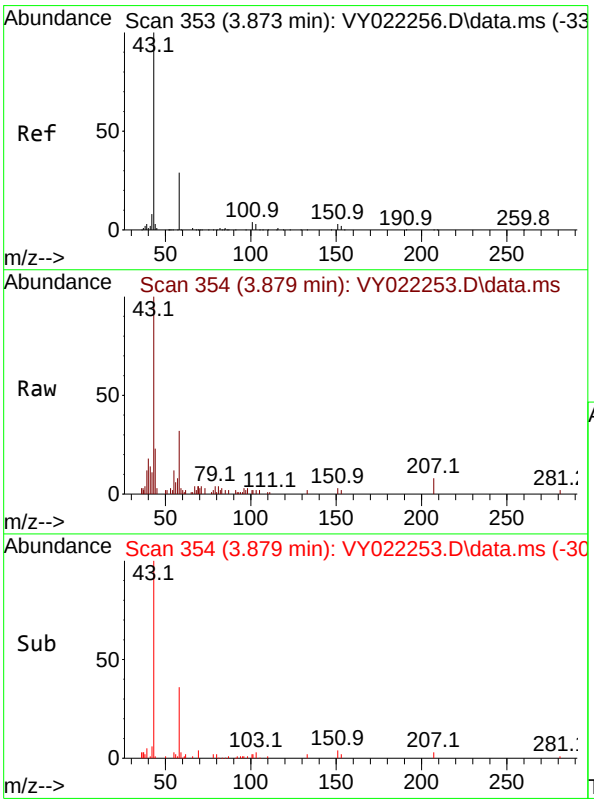
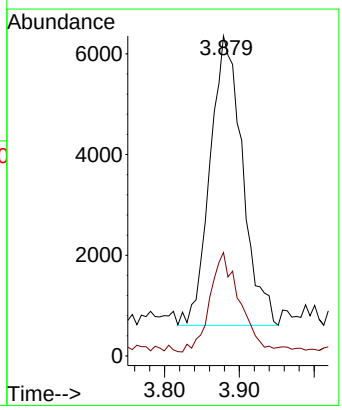
Supervised By :Semsettin Yesilyurt 05/16/2025

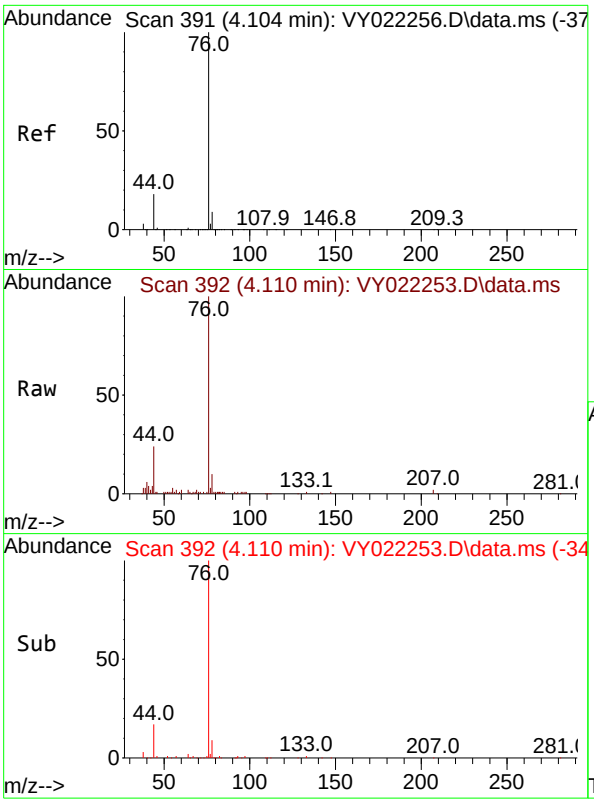



#16
Acetone
Concen: 30.639 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 17340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.3 | 23.6 | 35.4 |

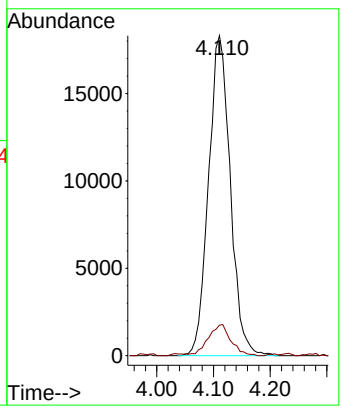





#17
Carbon Disulfide
Concen: 5.068 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 76 Resp: 4881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.3 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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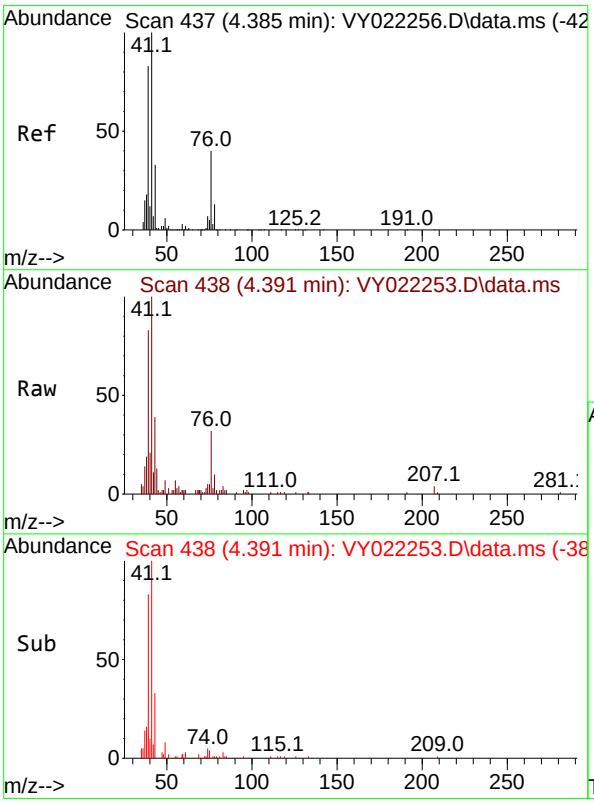
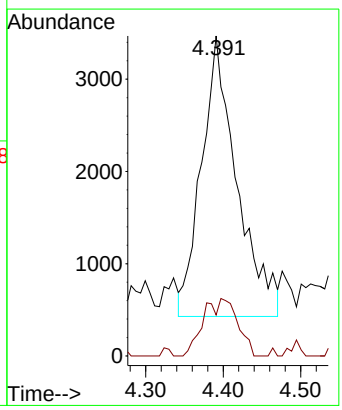
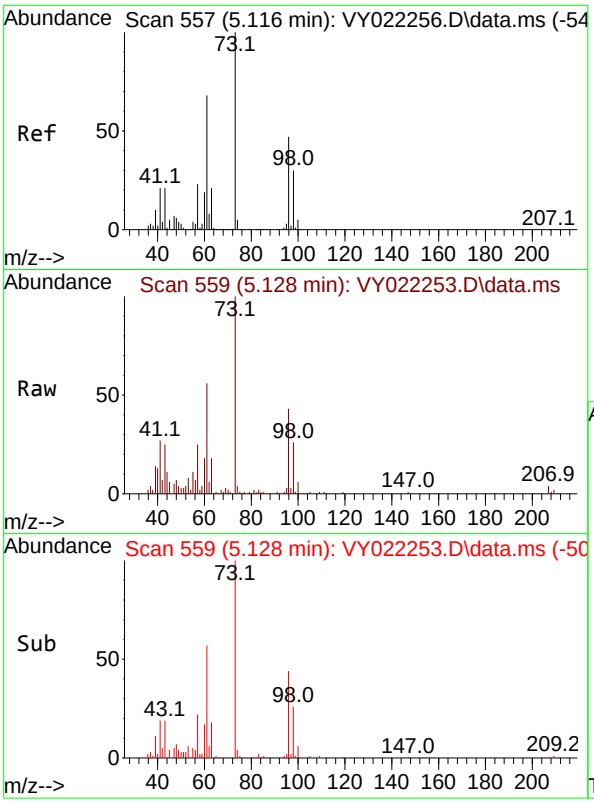



#18
Methyl Acetate
Concen: 5.597 ug/l m
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 9639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 8.9 | 18.2 | 27.4# |

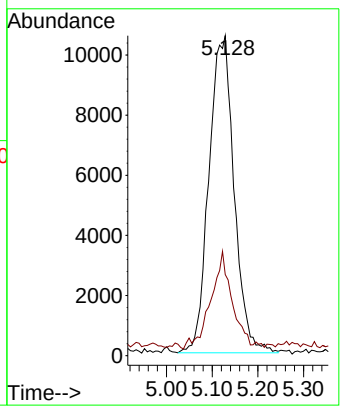





#19
Methyl tert-butyl Ether
Concen: 4.959 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 73 Resp: 4039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.0 | 18.6 | 28.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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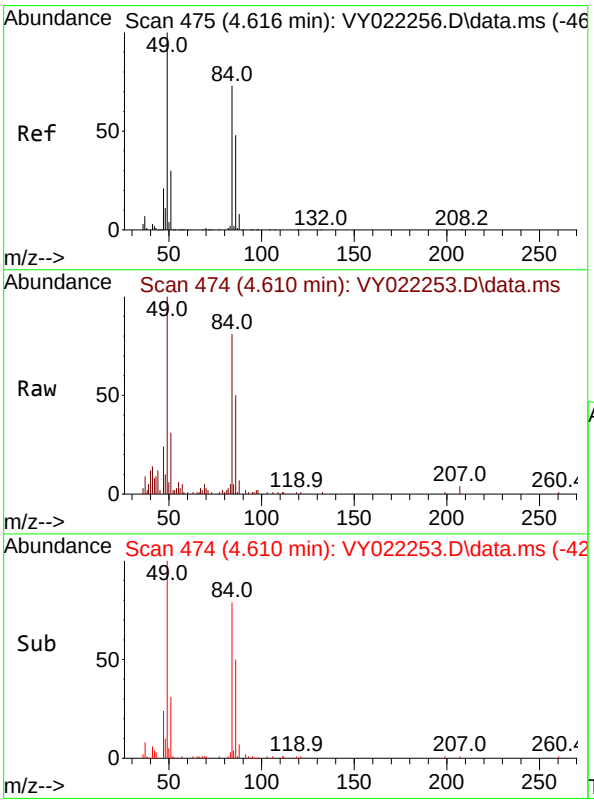
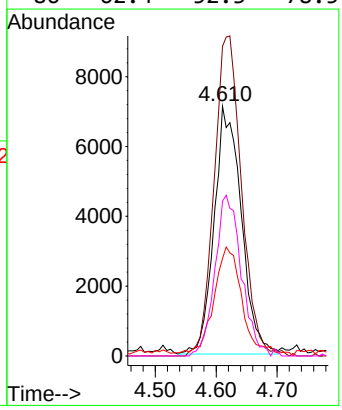
Supervised By :Semsettin Yesilyurt 05/16/2025

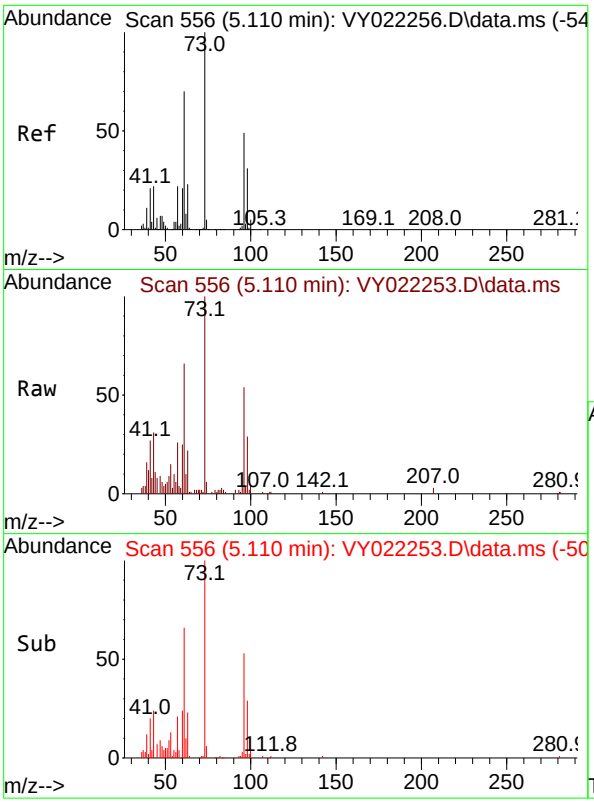



#20
Methylene Chloride
Concen: 6.016 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 84 Resp: 22002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 125.0 | 109.6 | 164.4 |
| 51 | 38.1 | 32.4 | 48.6 |
| 86 | 62.4 | 52.3 | 78.5 |

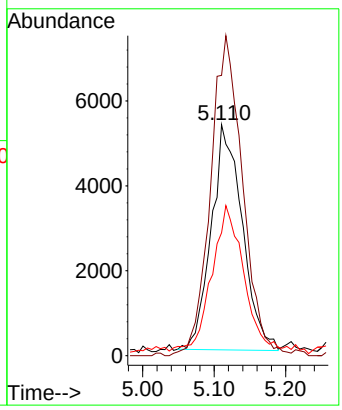





#21
trans-1,2-Dichloroethene
Concen: 4.889 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 96 Resp: 1594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 123.1 | 113.4 | 170.0 |
| 98 | 51.2 | 50.9 | 76.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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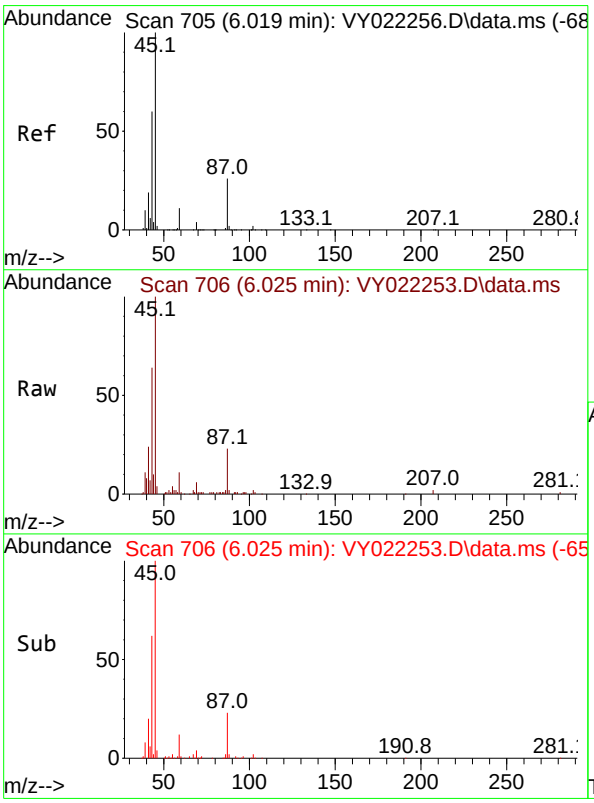
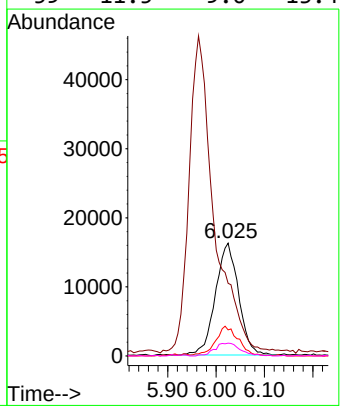
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

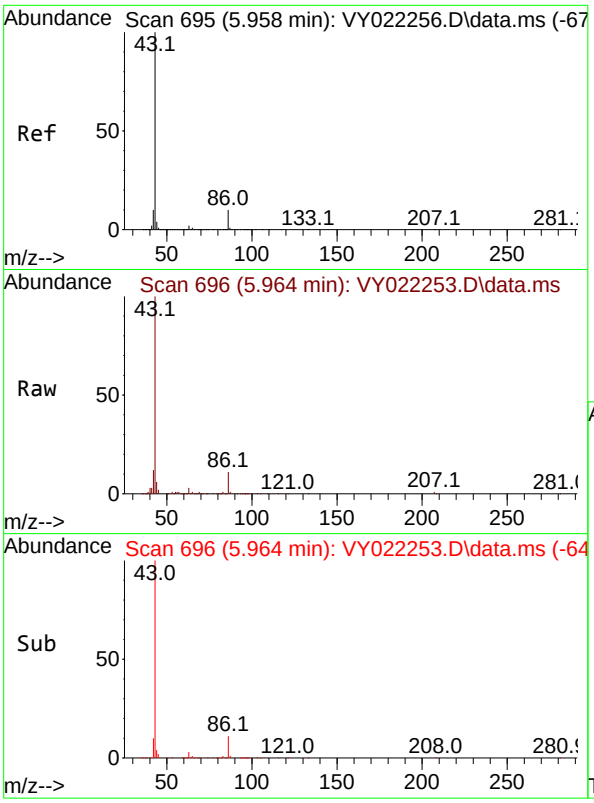



#22
Diisopropyl ether
Concen: 4.915 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 45 Resp: 53760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.6 | 48.2 | 72.2 |
| 87 | 22.4 | 21.4 | 32.0 |
| 59 | 11.5 | 9.0 | 13.4 |

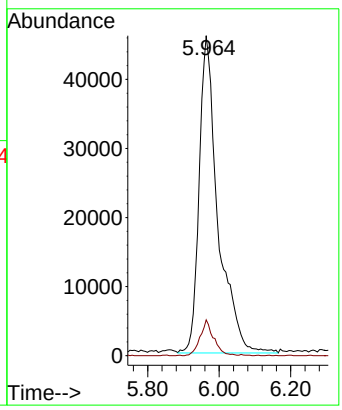





#23
Vinyl Acetate
Concen: 25.361 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 16759

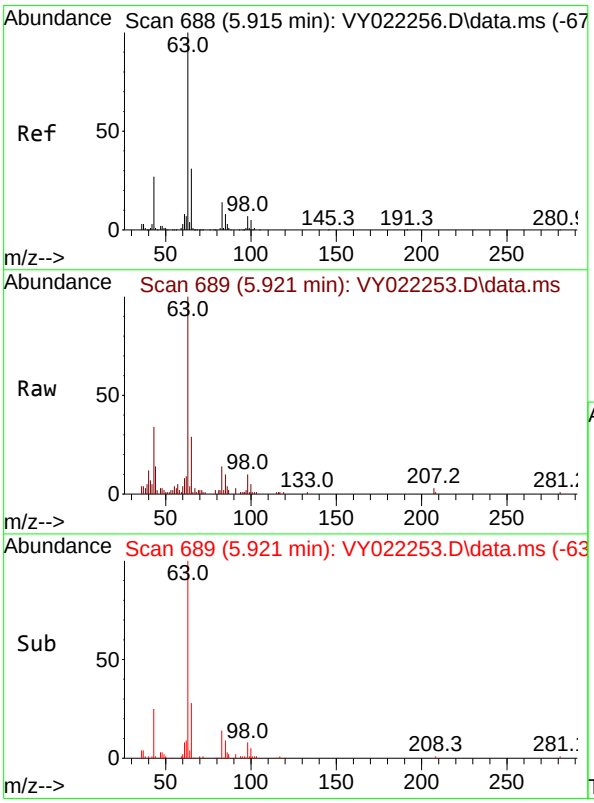
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.3 | 7.8 | 11.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

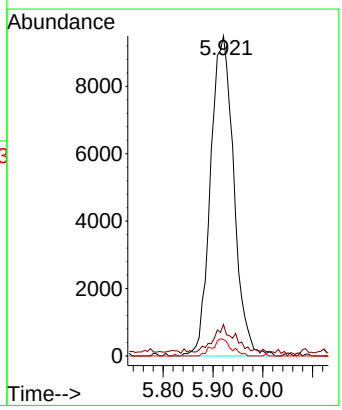
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

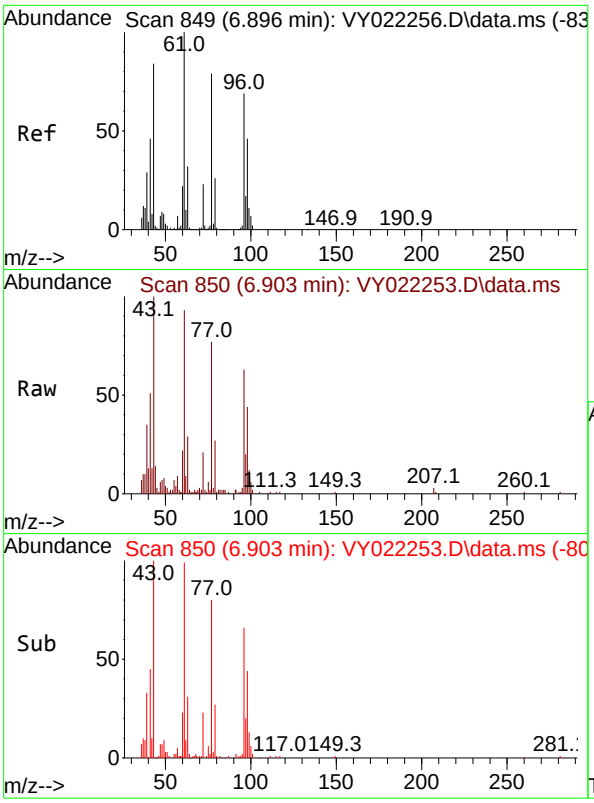



#24
1,1-Dichloroethane
Concen: 5.026 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 63 Resp: 30712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.3 | 3.5 | 10.5 |
| 100 | 5.1 | 2.4 | 7.2 |






#25
2-Butanone
Concen: 26.203 ug/l
RT: 6.903 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

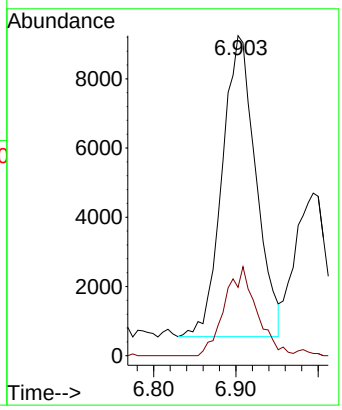
Tgt Ion: 43 Resp: 2480

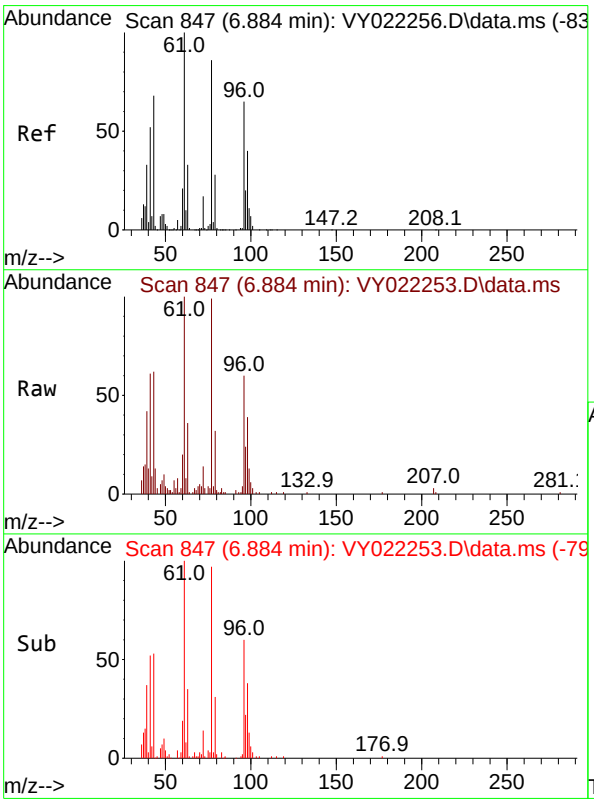
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.7 | 22.1 | 33.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

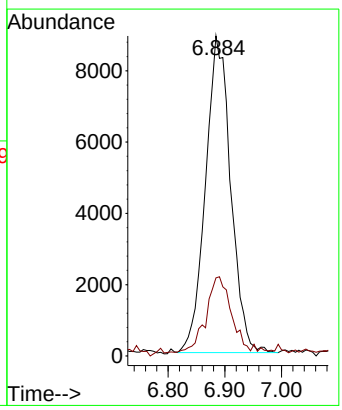


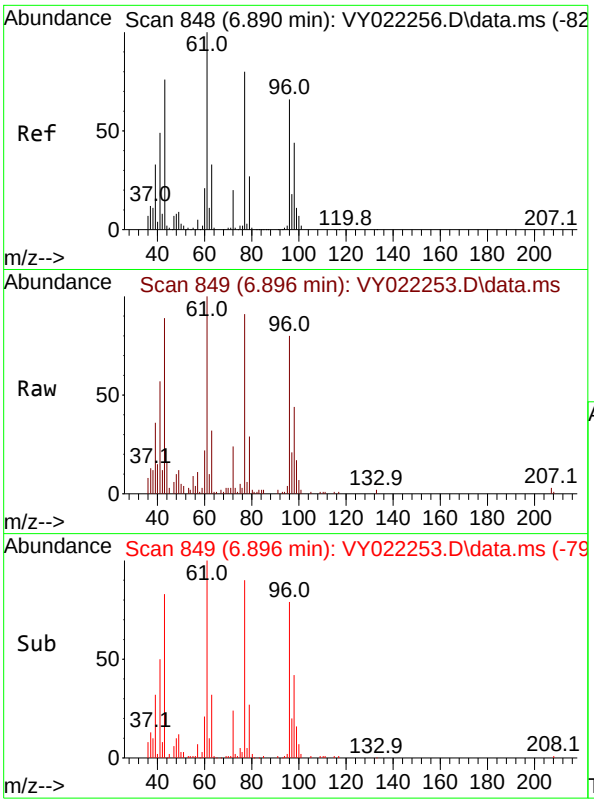




#26
2,2-Dichloropropane
Concen: 5.048 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 77 Resp: 27440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.9 | 11.2 | 33.5 |

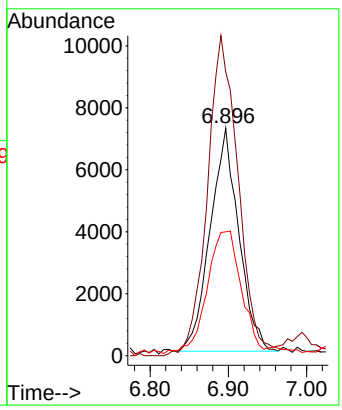





#27
cis-1,2-Dichloroethene
Concen: 4.857 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 96 Resp: 1827

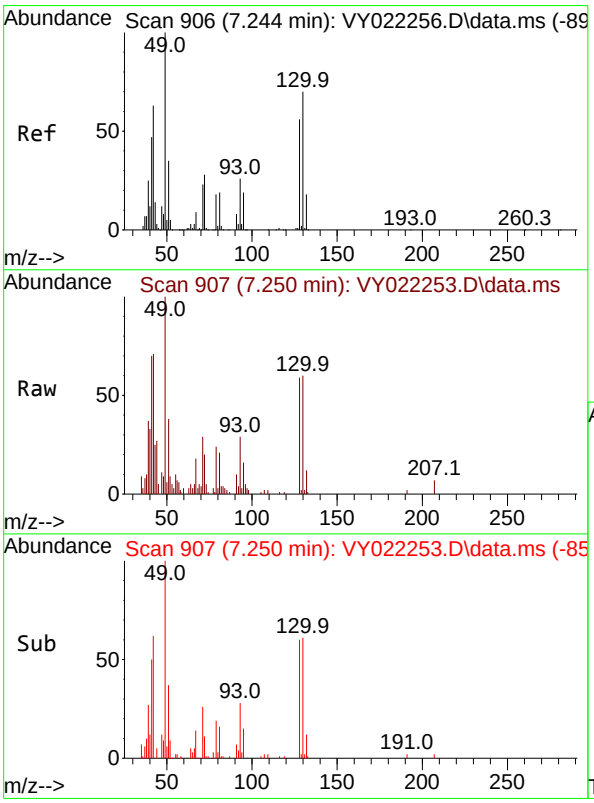
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 154.3 | 0.0 | 302.6 |
| 98 | 66.0 | 0.0 | 128.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

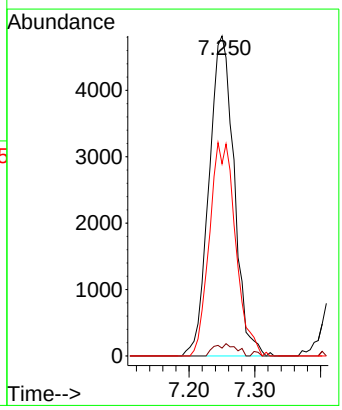
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

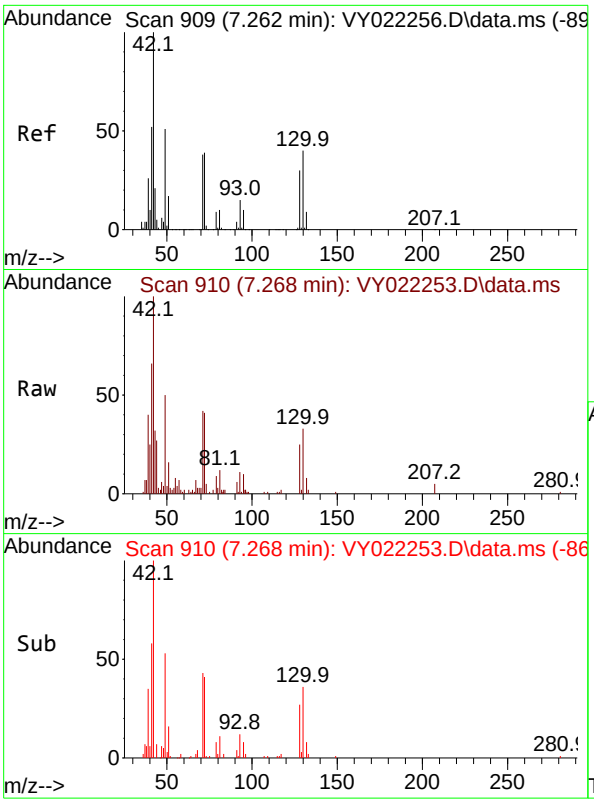



#28
Bromochloromethane
Concen: 4.901 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 49 Resp: 12774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.4 | 0.0 | 3.6 |
| 130 | 69.7 | 54.7 | 82.1 |






#29
Tetrahydrofuran
Concen: 23.811 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

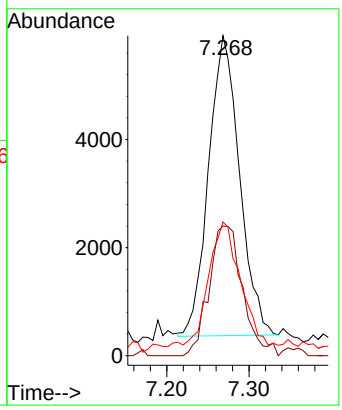
Tgt Ion: 42 Resp: 1450

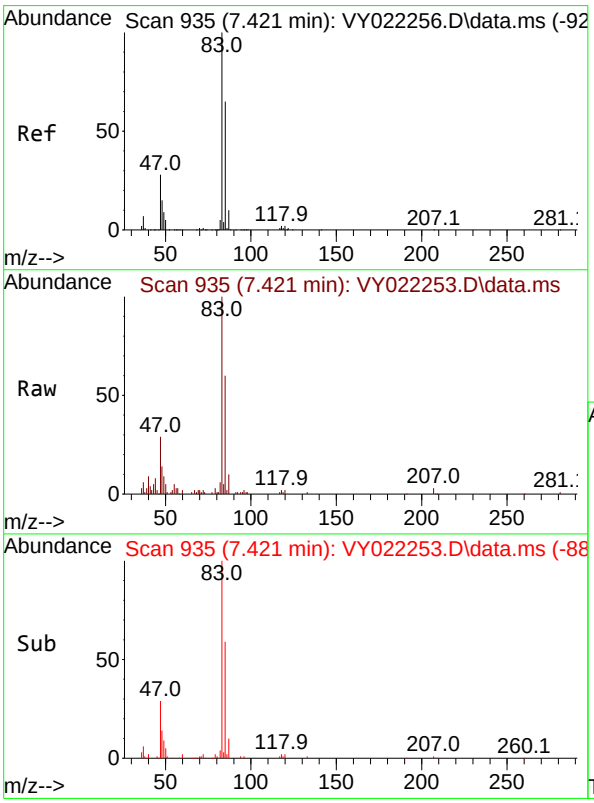
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.7 | 33.8 | 50.6 |
| 71 | 43.0 | 31.5 | 47.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

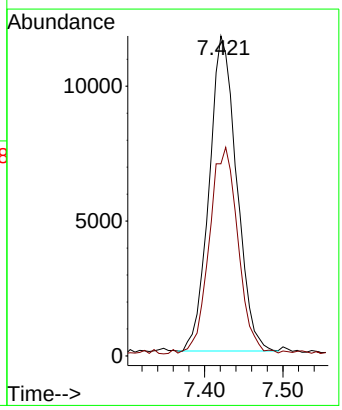


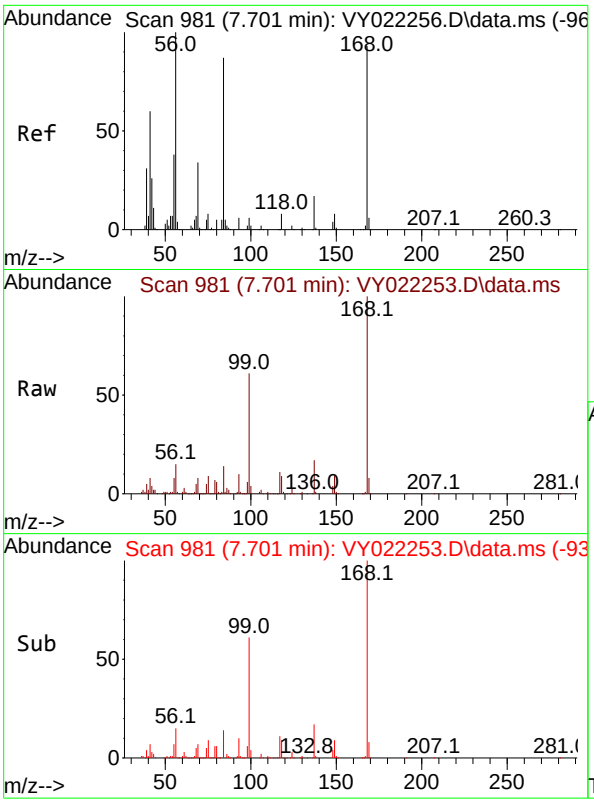




#30
Chloroform
Concen: 4.863 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 83 Resp: 28505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.1 | 51.8 | 77.8 |

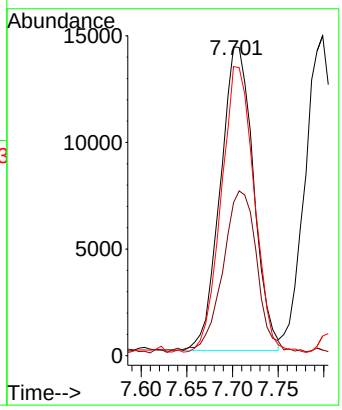





#31
Cyclohexane
Concen: 5.880 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 56 Resp: 3590

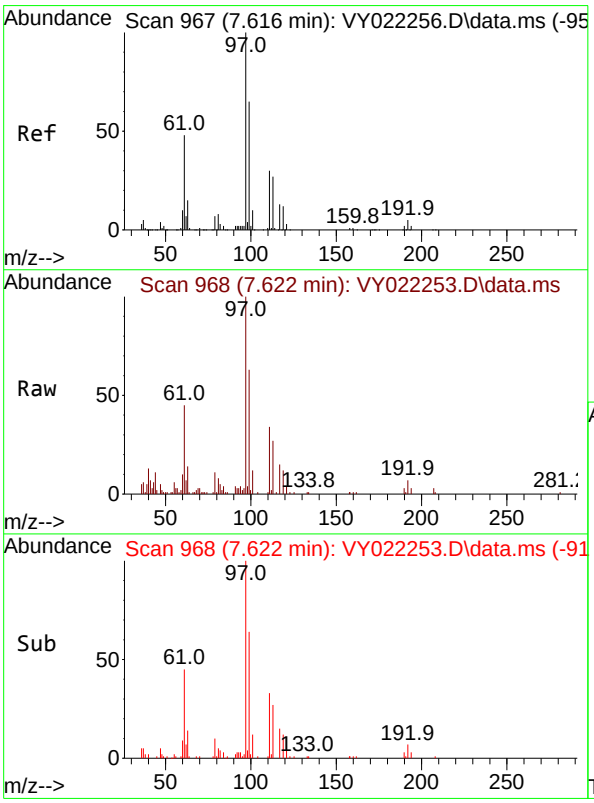
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 48.0 | 27.4 | 41.2 |
| 84 | 93.4 | 70.0 | 105.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

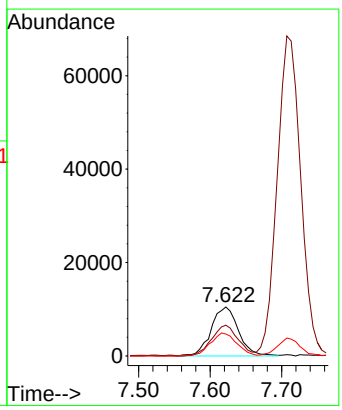
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

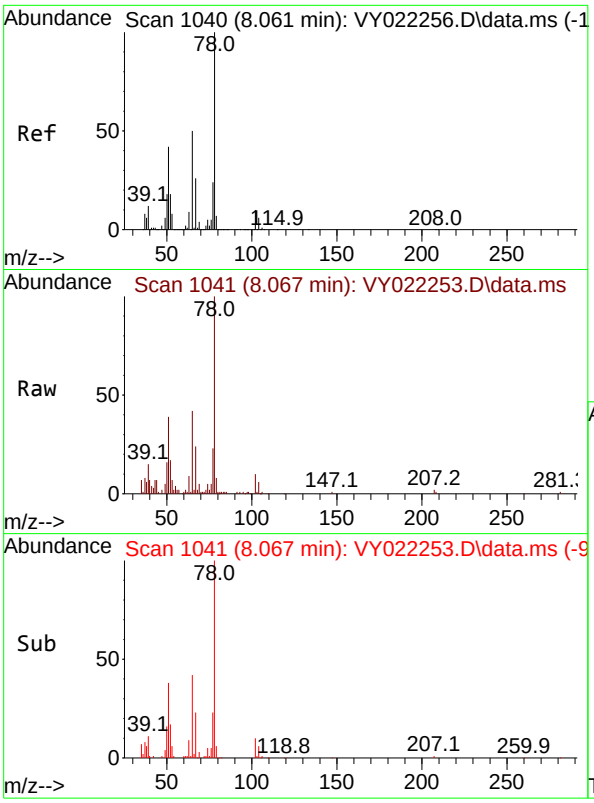



#32
1,1,1-Trichloroethane
Concen: 5.170 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 97 Resp: 27801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 60.7 | 51.4 | 77.0 |
| 61 | 45.4 | 38.1 | 57.1 |

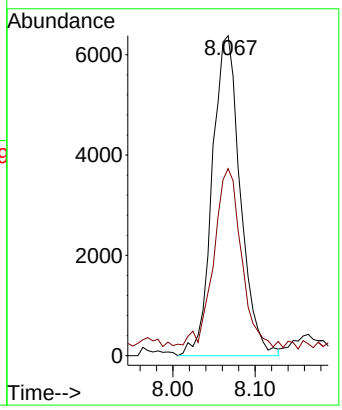





#33
1,2-Dichloroethane-d4
Concen: 5.009 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 65 Resp: 1511

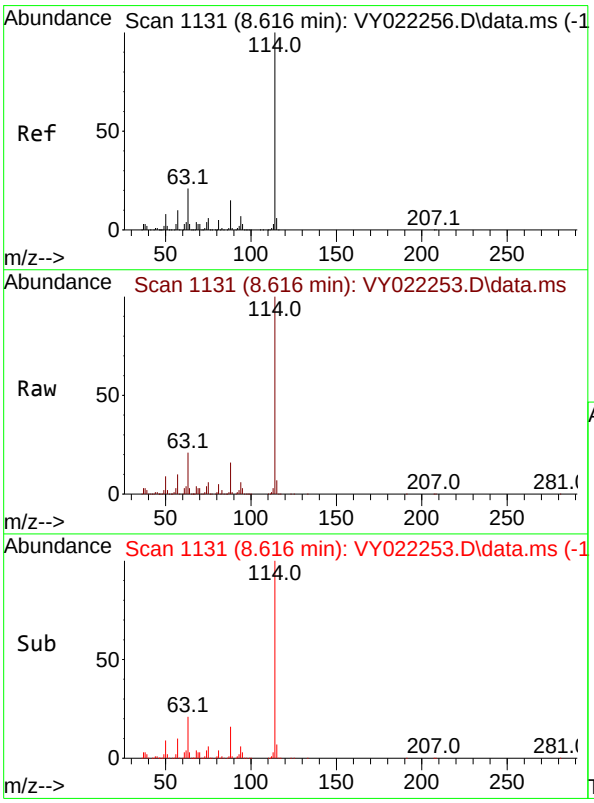
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.6 | 0.0 | 104.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

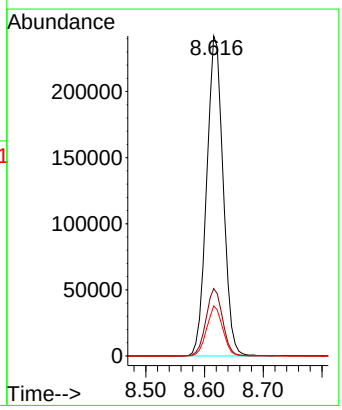
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

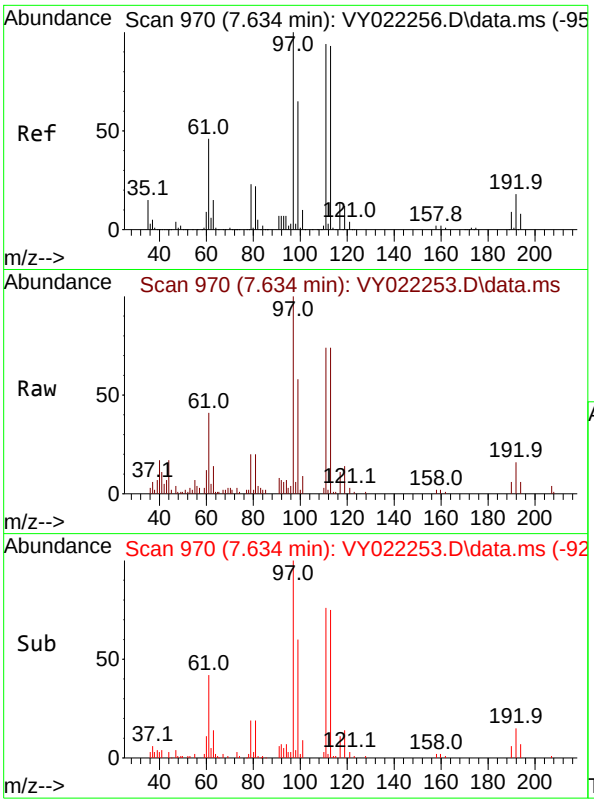



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:114 Resp: 470488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.0 | 0.0 | 41.0 |
| 88 | 15.7 | 0.0 | 29.4 |

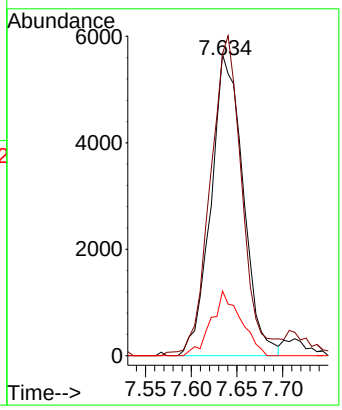





#35
Dibromofluoromethane
Concen: 4.933 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:113 Resp: 1385

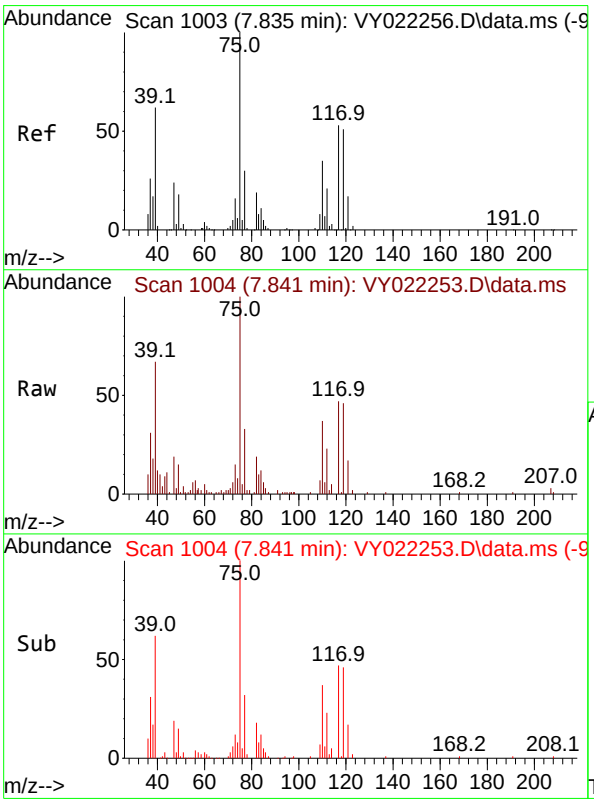
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.5 | 82.6 | 123.8 |
| 192 | 19.7 | 15.2 | 22.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

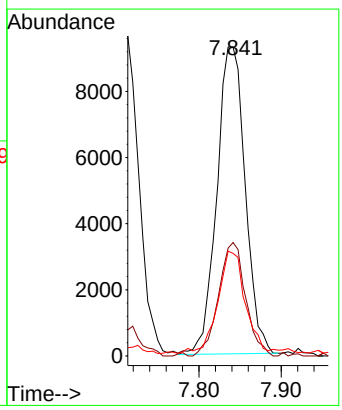
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

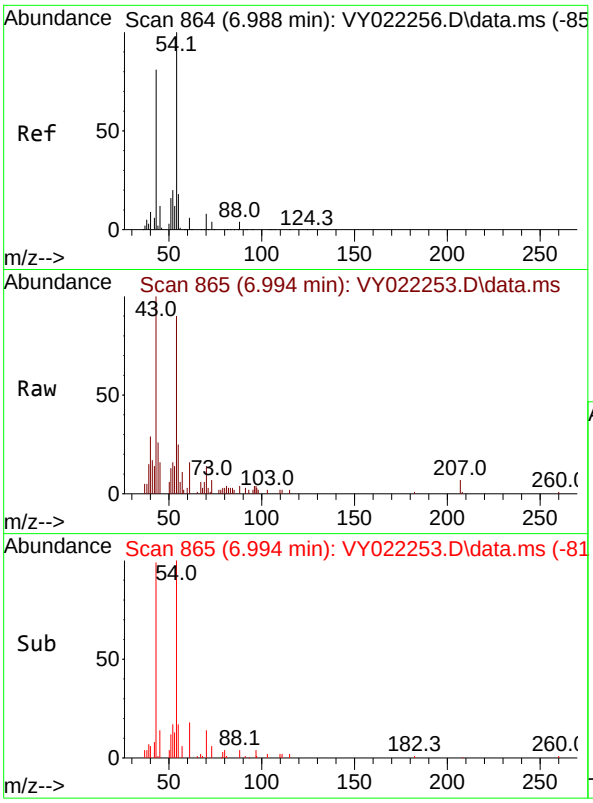



#36
1,1-Dichloropropene
Concen: 4.824 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 22314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.1 | 16.6 | 49.8 |
| 77 | 32.4 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 5.352 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

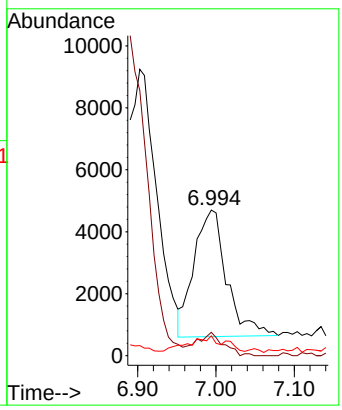
Tgt Ion: 43 Resp: 1191

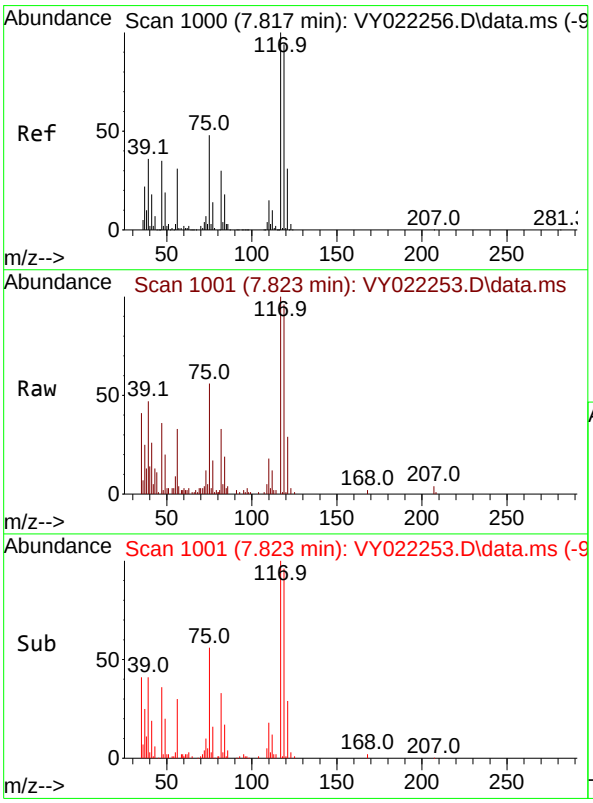
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.1 | 10.2 | 15.2 |
| 70 | 9.6 | 7.6 | 11.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

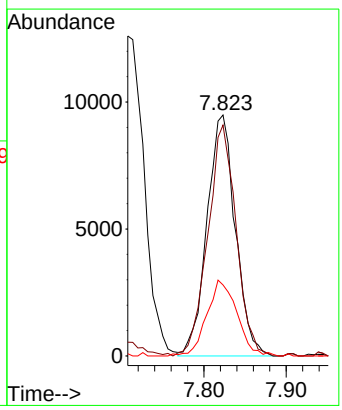


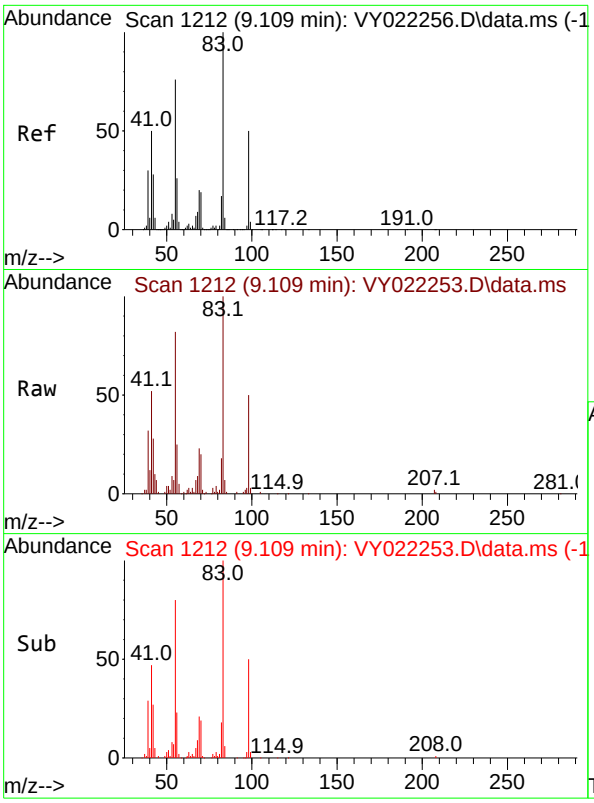




#38
Carbon Tetrachloride
Concen: 4.768 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:117 Resp: 22826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.8 | 75.3 | 112.9 |
| 121 | 29.5 | 24.7 | 37.1 |

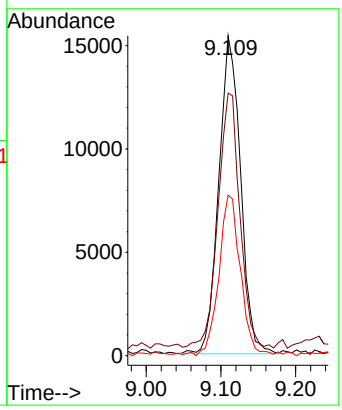





#39
Methylcyclohexane
Concen: 5.024 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 83 Resp: 3121

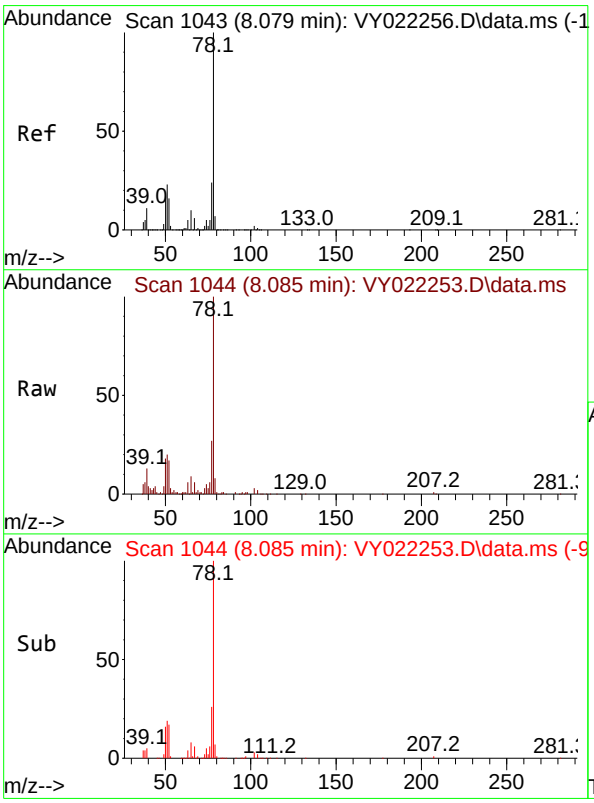
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 78.9 | 60.6 | 90.8 |
| 98 | 49.6 | 40.0 | 60.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

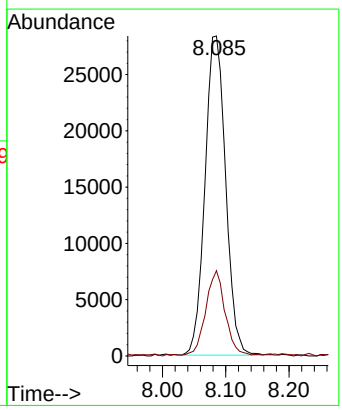
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

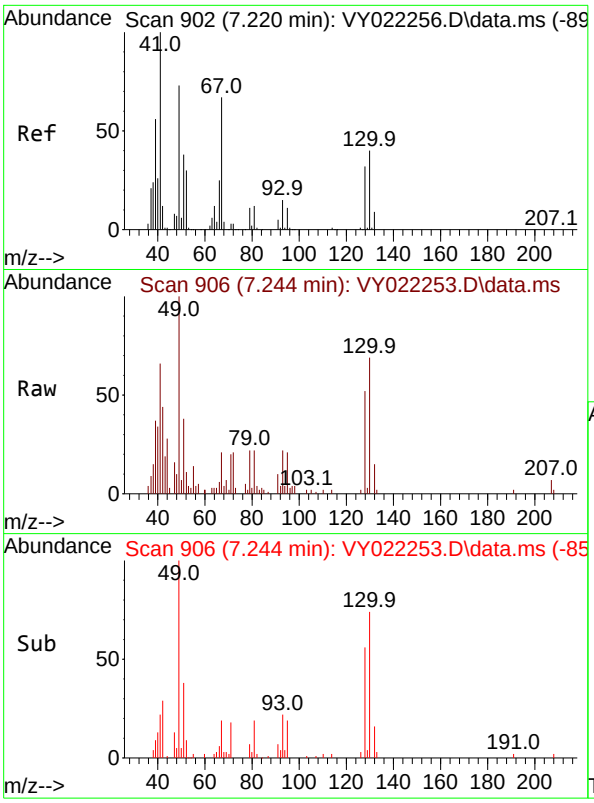



#40
Benzene
Concen: 4.699 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 78 Resp: 64430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 26.4 | 18.9 | 28.3 |

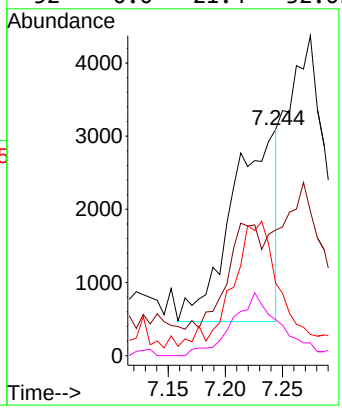





#41
Methacrylonitrile
Concen: 4.422 ug/l m
RT: 7.244 min Scan# 9
Delta R.T. 0.024 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 41 Resp: 720

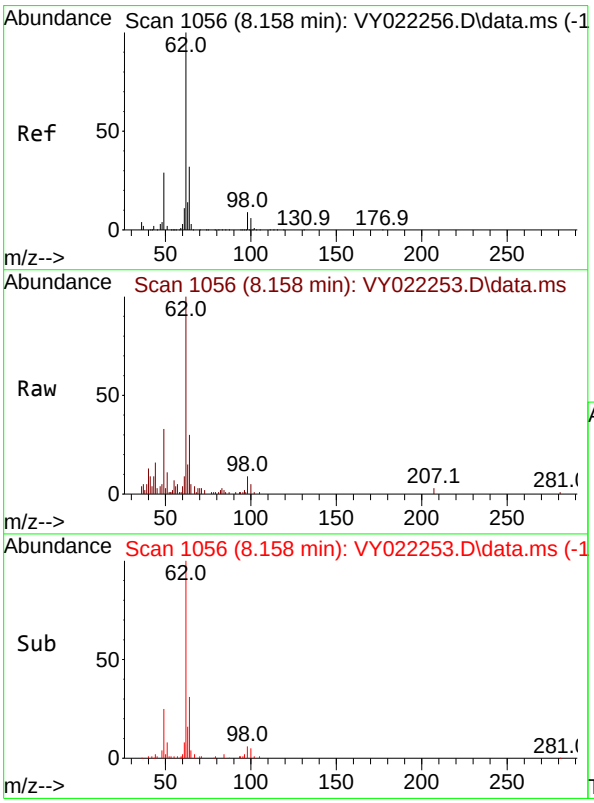
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 63.3 | 39.1 | 58.7# |
| 67 | 0.0 | 47.1 | 70.7# |
| 52 | 0.0 | 21.4 | 32.0# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

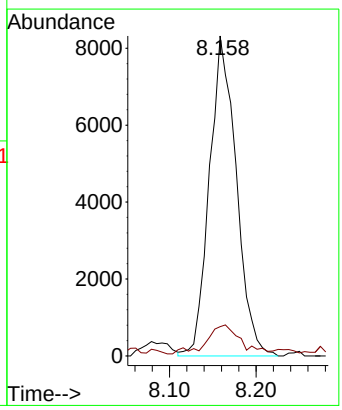
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

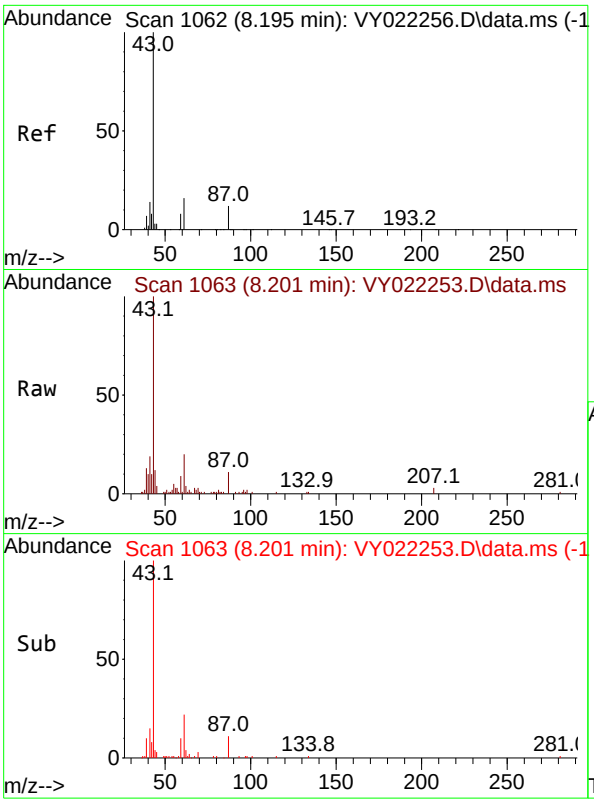



#42
1,2-Dichloroethane
Concen: 4.837 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 62 Resp: 17934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.1 | 0.0 | 18.4 |

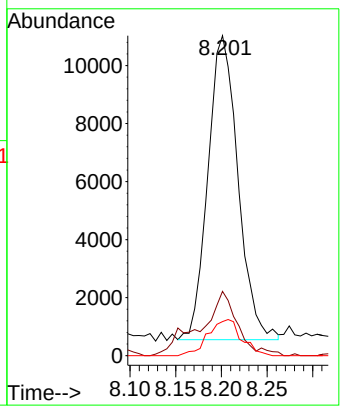





#43
Isopropyl Acetate
Concen: 4.941 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 2397

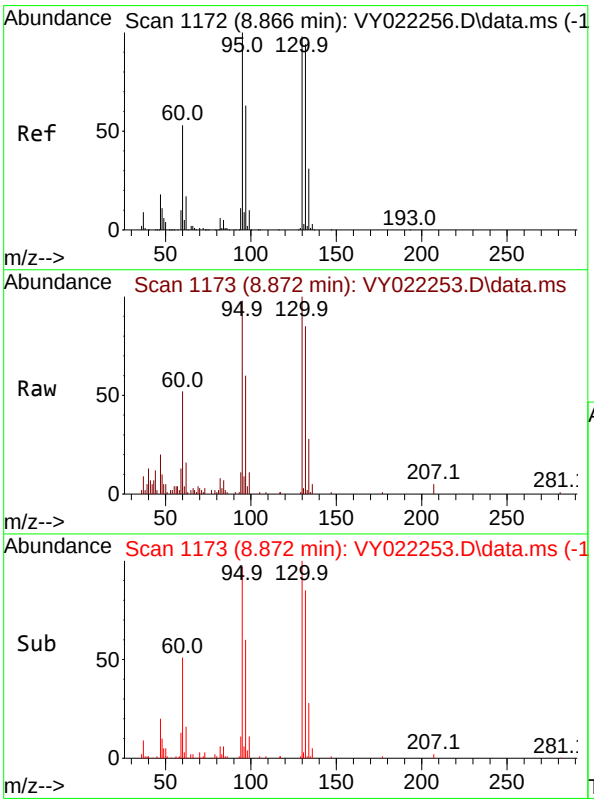
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 18.7 | 15.1 | 22.7 |
| 87 | 13.2 | 9.7 | 14.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

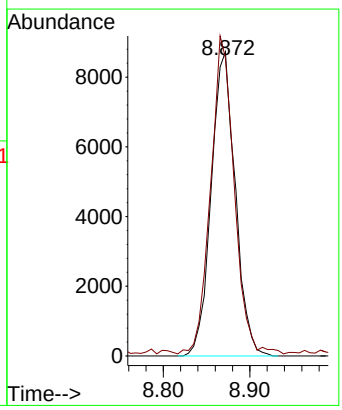
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

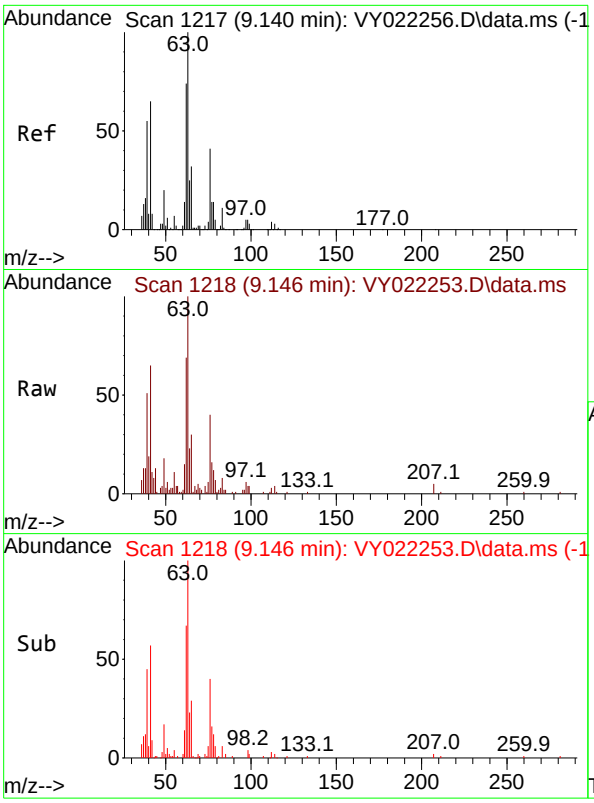



#44
Trichloroethene
Concen: 4.943 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:130 Resp: 16852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 97.3 | 0.0 | 204.8 |






#45
1,2-Dichloropropane
Concen: 4.796 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 63 Resp: 1585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.1 | 25.7 | 38.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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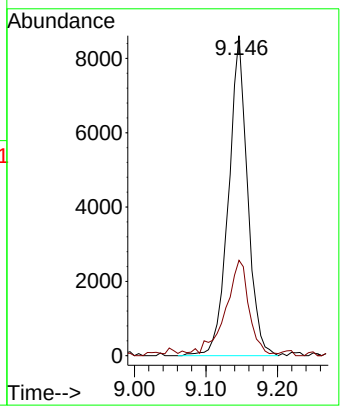
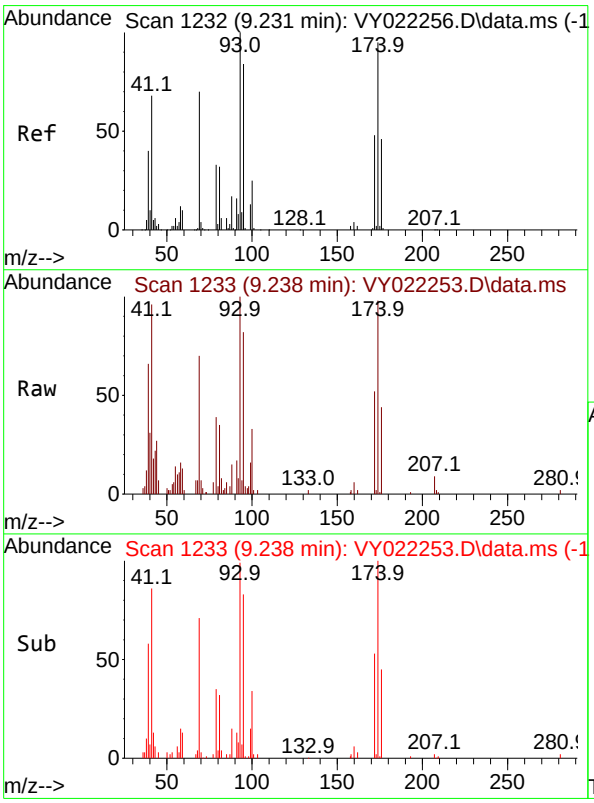
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

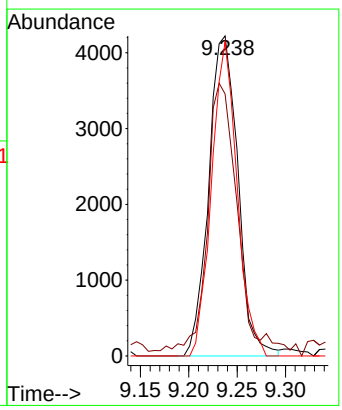


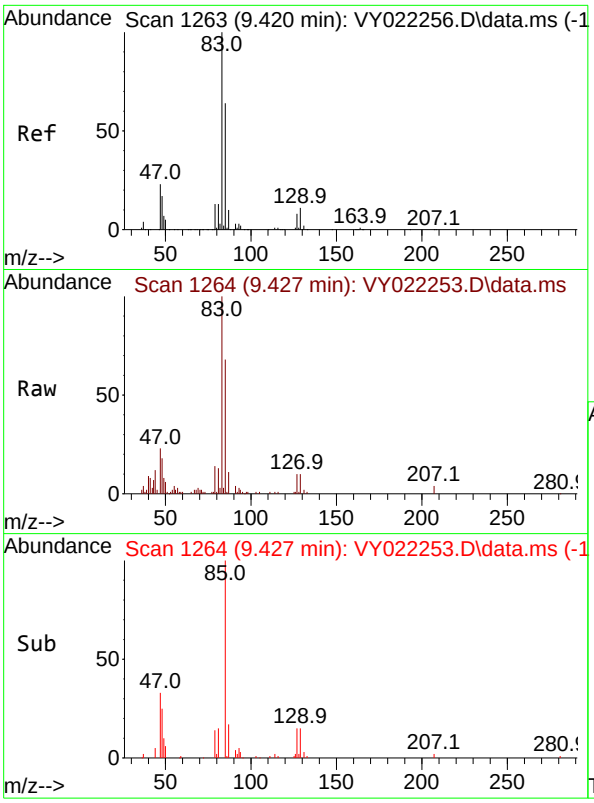




#46
Dibromomethane
Concen: 4.980 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 93 Resp: 8879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 89.8 | 65.2 | 97.8 |
| 174 | 85.7 | 74.3 | 111.5 |

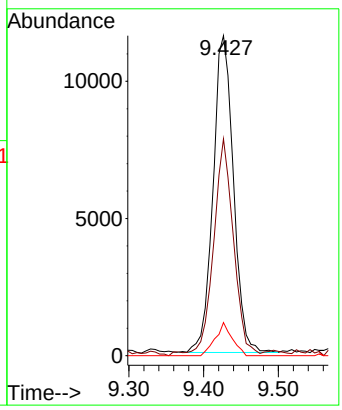





#47
Bromodichloromethane
Concen: 4.736 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 83 Resp: 2190

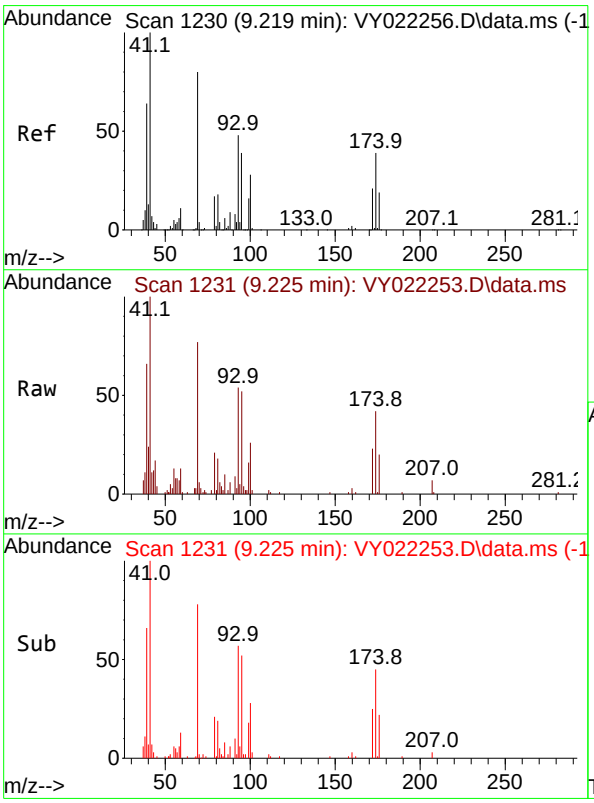
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.3 | 51.1 | 76.7 |
| 127 | 10.4 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

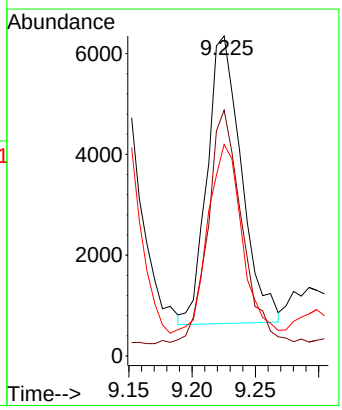
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

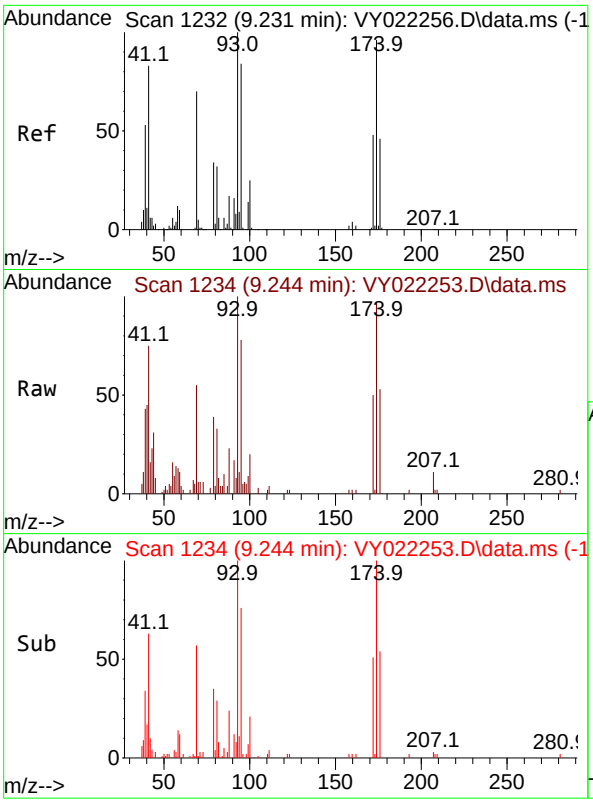



#48
Methyl methacrylate
Concen: 4.727 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 41 Resp: 10729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 80.7 | 63.5 | 95.3 |
| 39 | 66.0 | 50.8 | 76.2 |

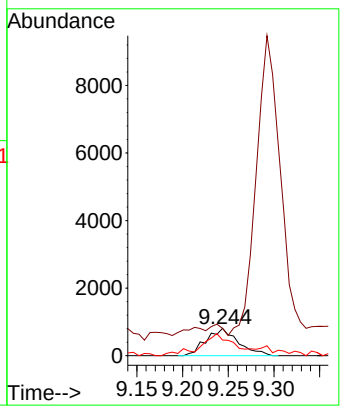





#49
1,4-Dioxane
Concen: 97.404 ug/l
RT: 9.244 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 88 Resp: 196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 28.5 | 42.7# |
| 58 | 79.8 | 61.4 | 92.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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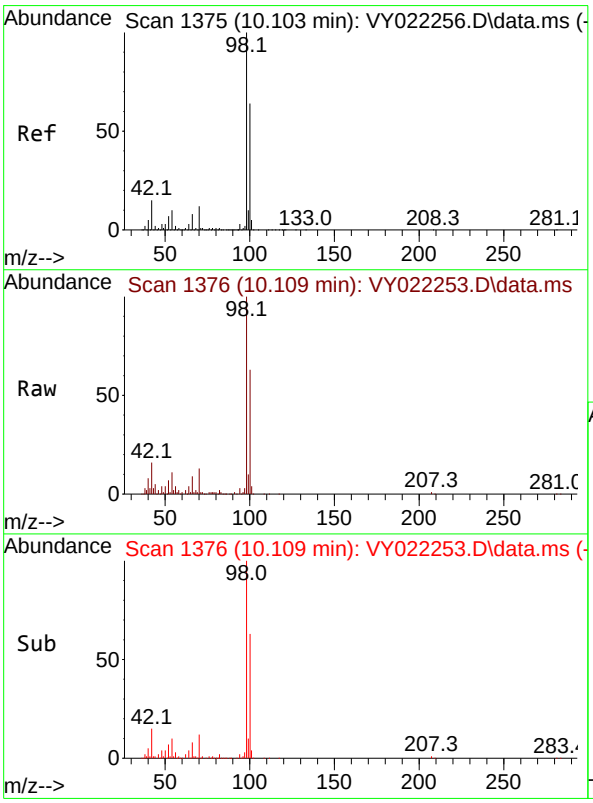
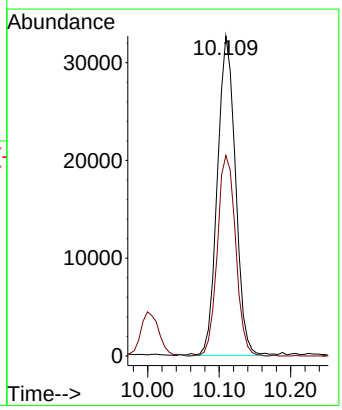
Supervised By :Semsettin Yesilyurt 05/16/2025

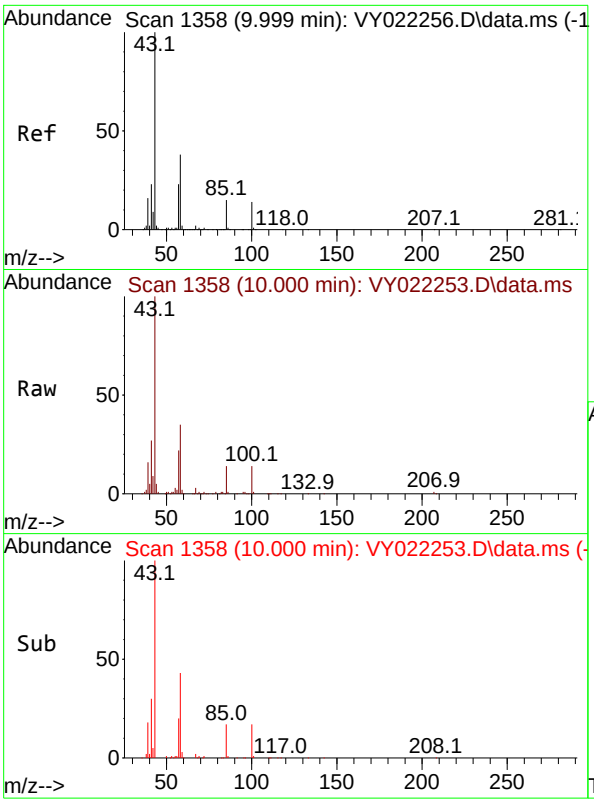



#50
Toluene-d8
Concen: 5.006 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 98 Resp: 57575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.2 | 51.8 | 77.8 |

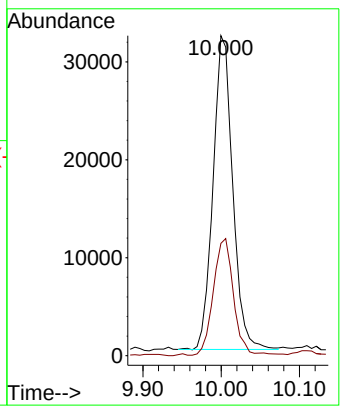





#51
4-Methyl-2-Pentanone
Concen: 23.464 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 5588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.3 | 29.4 | 44.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

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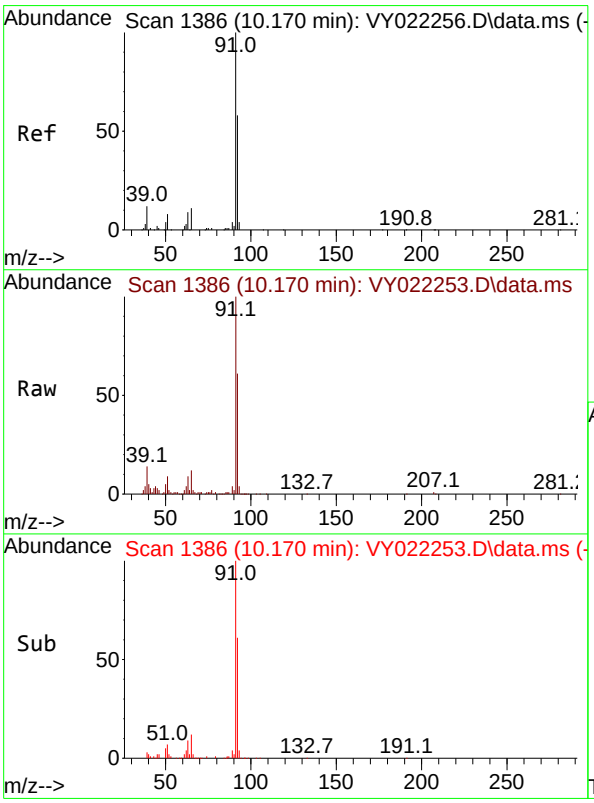
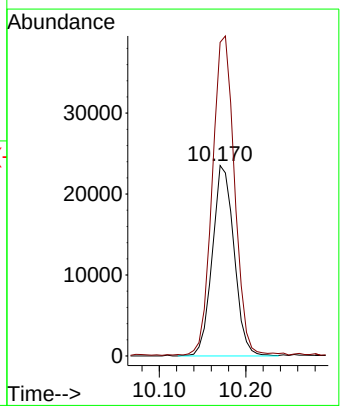
Supervised By :Semsettin Yesilyurt 05/16/2025

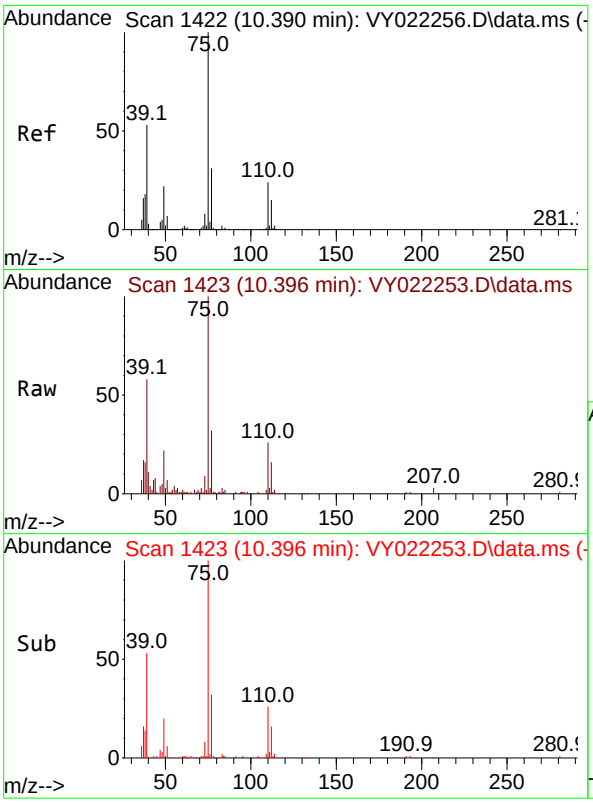



#52
Toluene
Concen: 4.722 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 92 Resp: 41001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.8 | 139.1 | 208.7 |

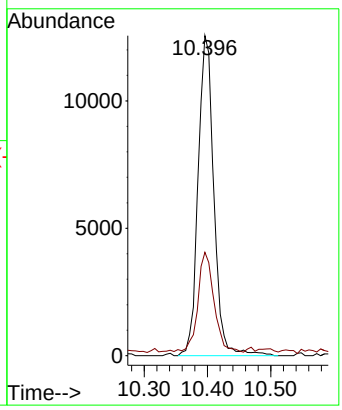





#53
t-1,3-Dichloropropene
Concen: 4.839 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 2184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.1 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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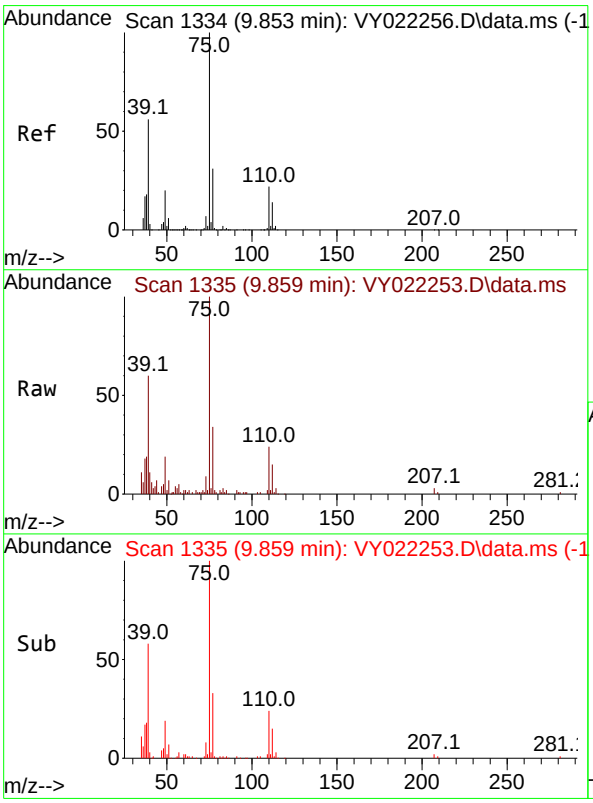
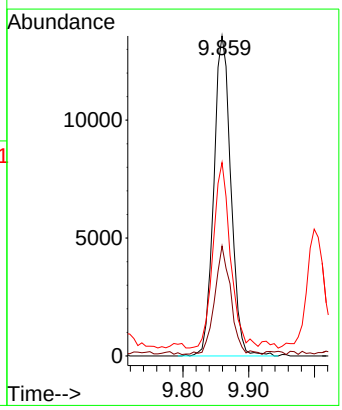
Supervised By :Semsettin Yesilyurt 05/16/2025

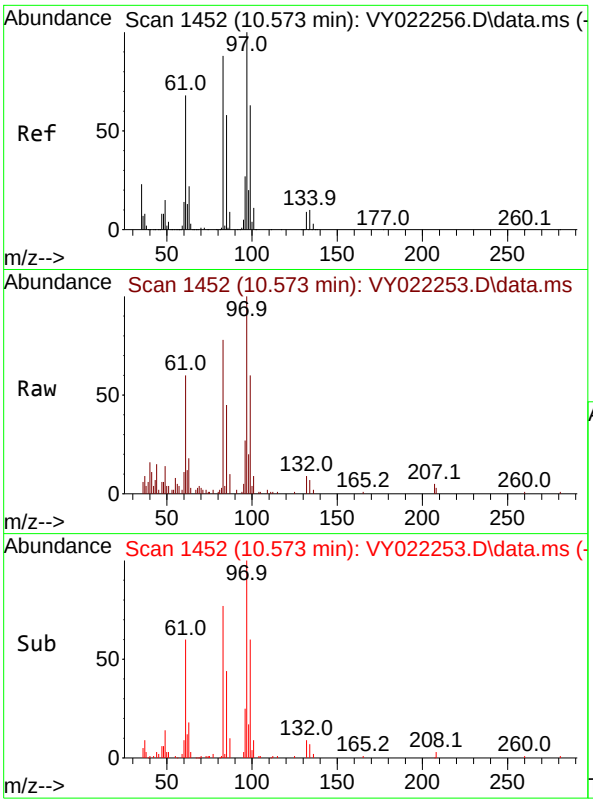



#54
cis-1,3-Dichloropropene
Concen: 4.758 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 24609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.3 | 25.1 | 37.7 |
| 39 | 58.0 | 44.5 | 66.7 |

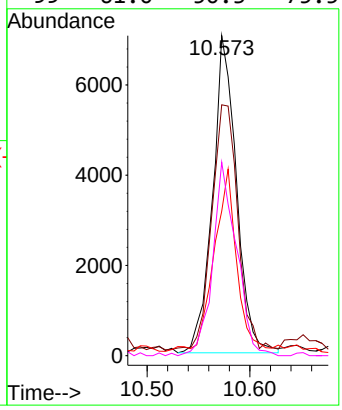





#55
1,1,2-Trichloroethane
Concen: 4.964 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 97 Resp: 1133

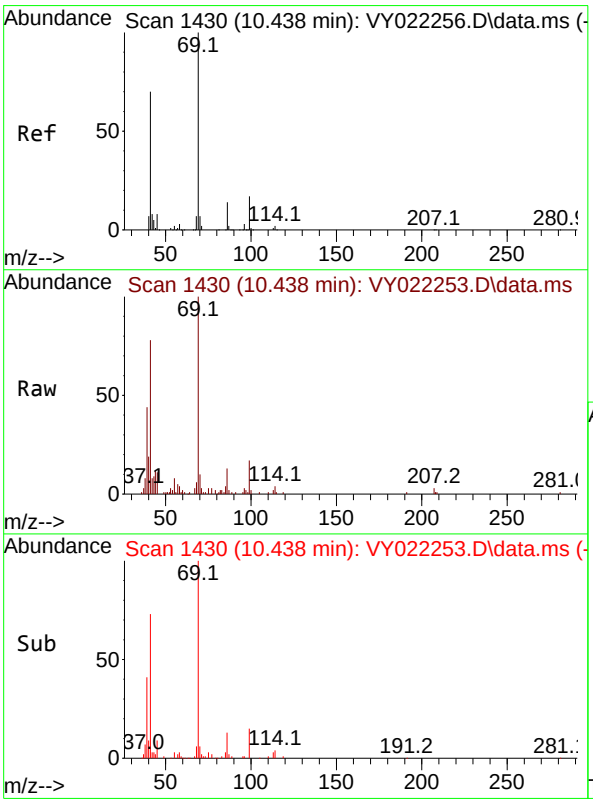
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 77.0 | 70.3 | 105.5 |
| 85 | 42.7 | 46.2 | 69.4 |
| 99 | 61.0 | 50.3 | 75.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

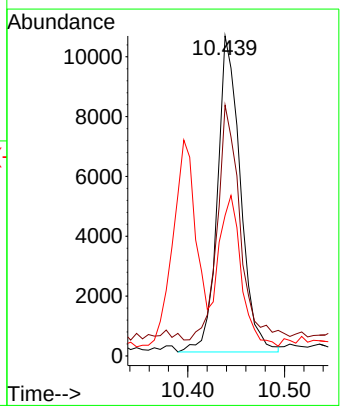
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

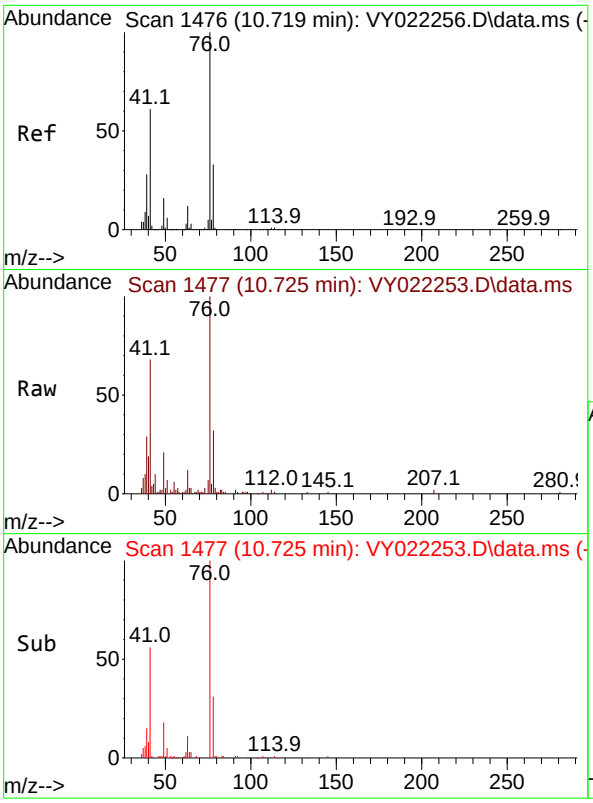



#56
Ethyl methacrylate
Concen: 4.898 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 69 Resp: 17420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 73.2 | 56.5 | 84.7 |
| 39 | 46.8 | 37.1 | 55.7 |

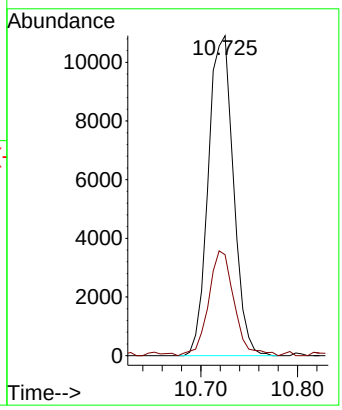





#57
1,3-Dichloropropane
Concen: 4.852 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 76 Resp: 1968

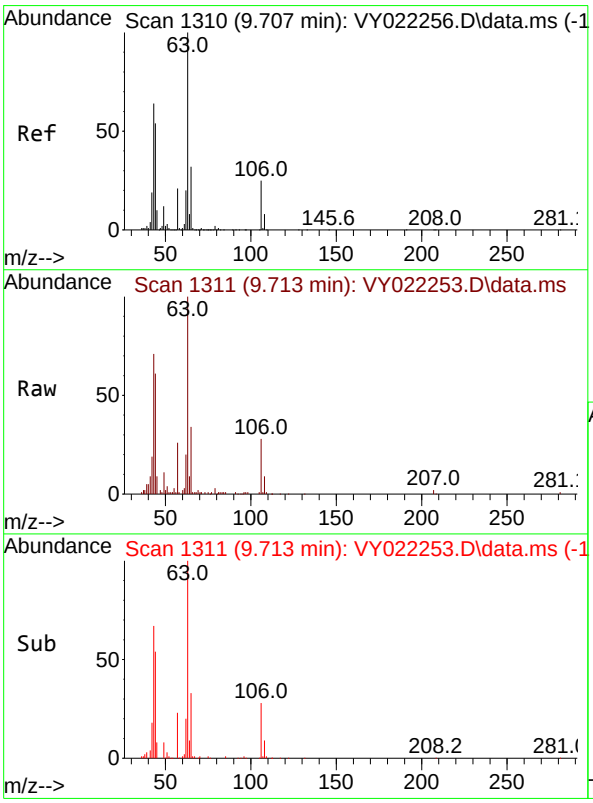
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.2 | 25.8 | 38.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

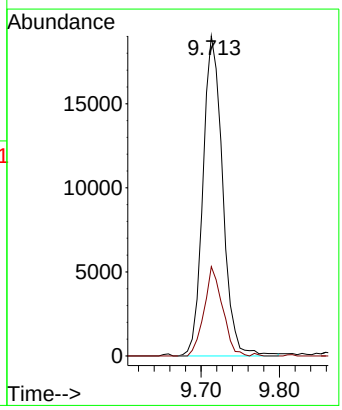
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

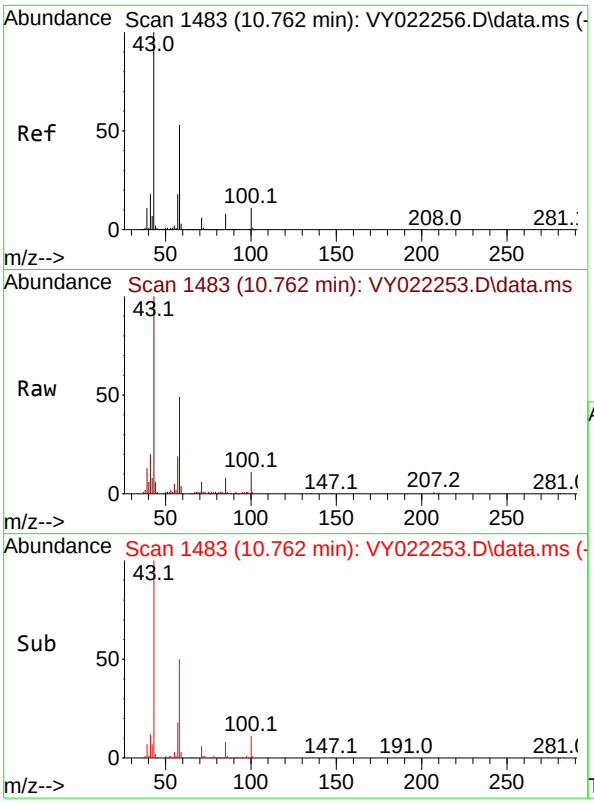



#58
2-Chloroethyl Vinyl ether
Concen: 20.807 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 63 Resp: 33215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.0 | 21.0 | 31.4 |






#59
2-Hexanone
Concen: 24.617 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

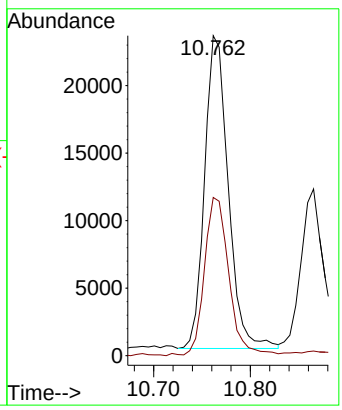
Tgt Ion: 43 Resp: 3930

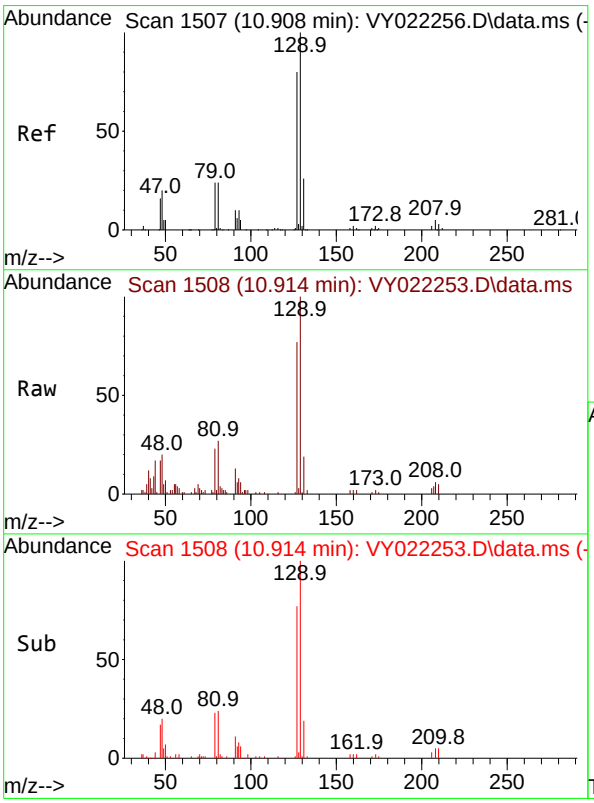
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 52.4 | 26.1 | 78.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

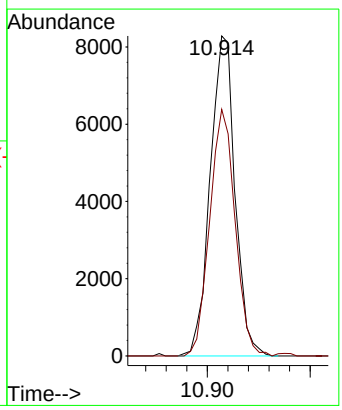


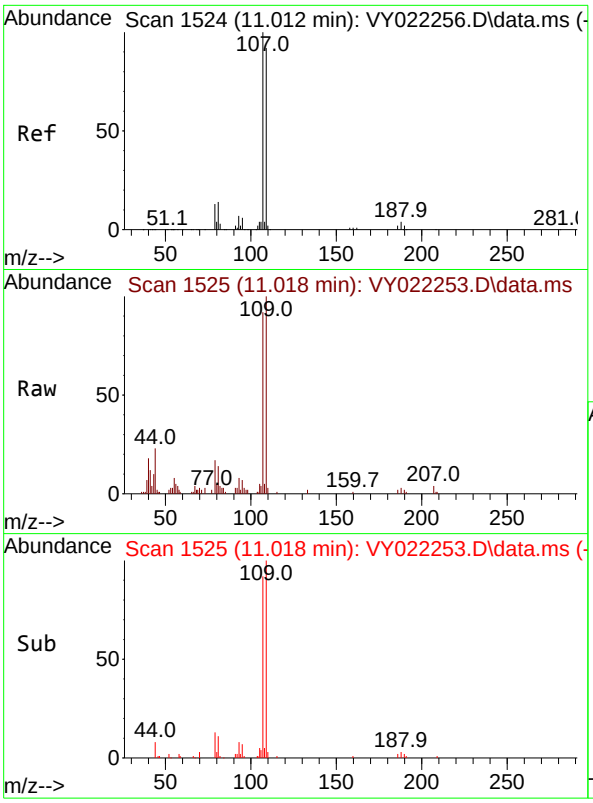




#60
Dibromochloromethane
Concen: 4.693 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:129 Resp: 13908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.6 | 38.6 | 115.7 |

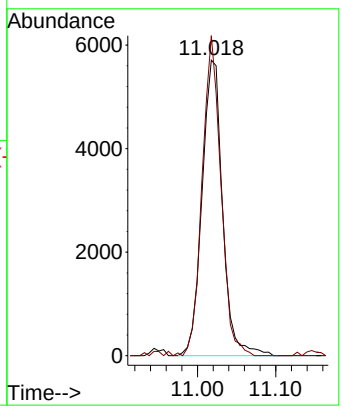





#61
1,2-Dibromoethane
Concen: 4.883 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:107 Resp: 1039

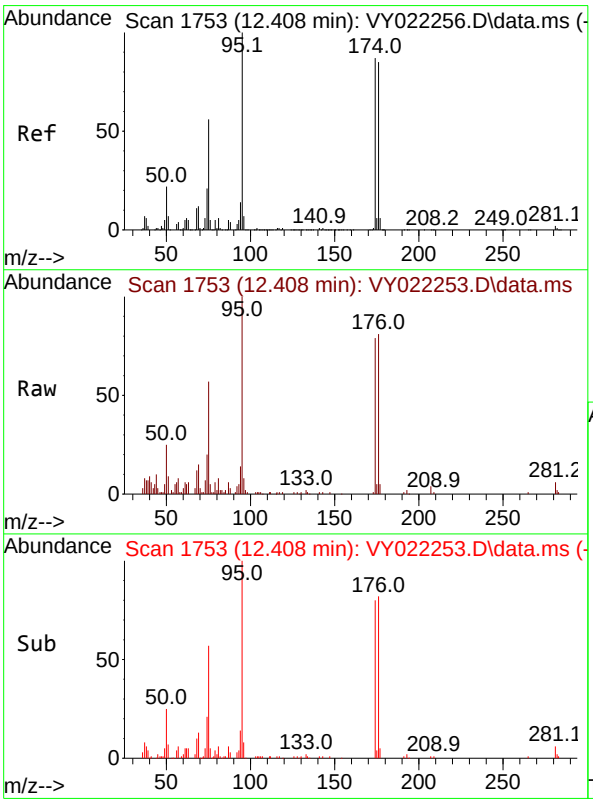
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 98.9 | 74.6 | 111.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

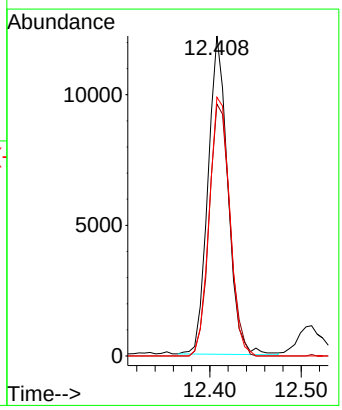
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

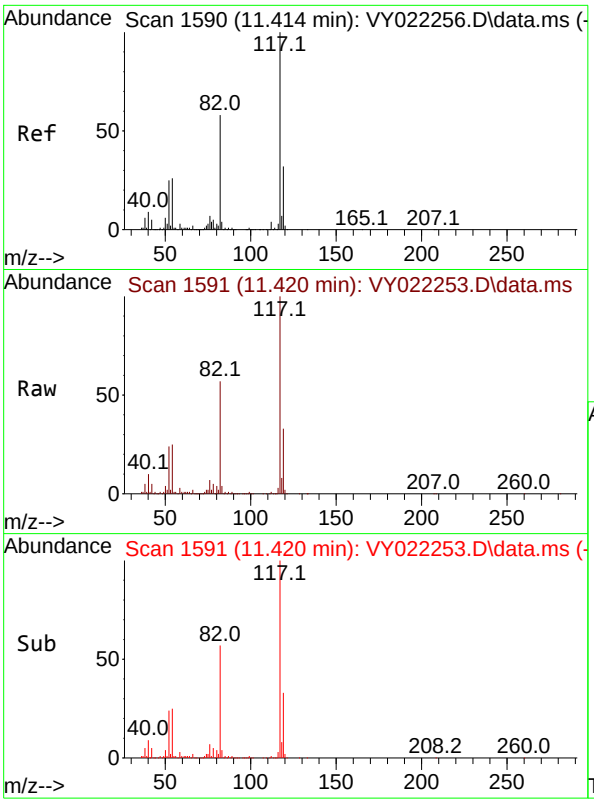



#62
4-Bromofluorobenzene
Concen: 5.028 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 95 Resp: 18328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 83.0 | 0.0 | 166.8 |
| 176 | 84.3 | 0.0 | 160.8 |

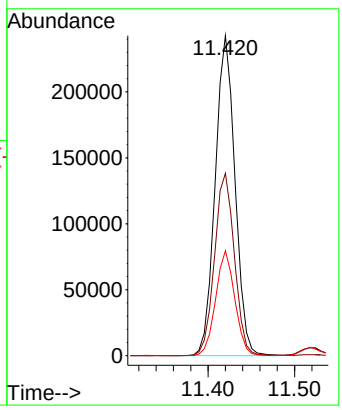





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:117 Resp: 385399

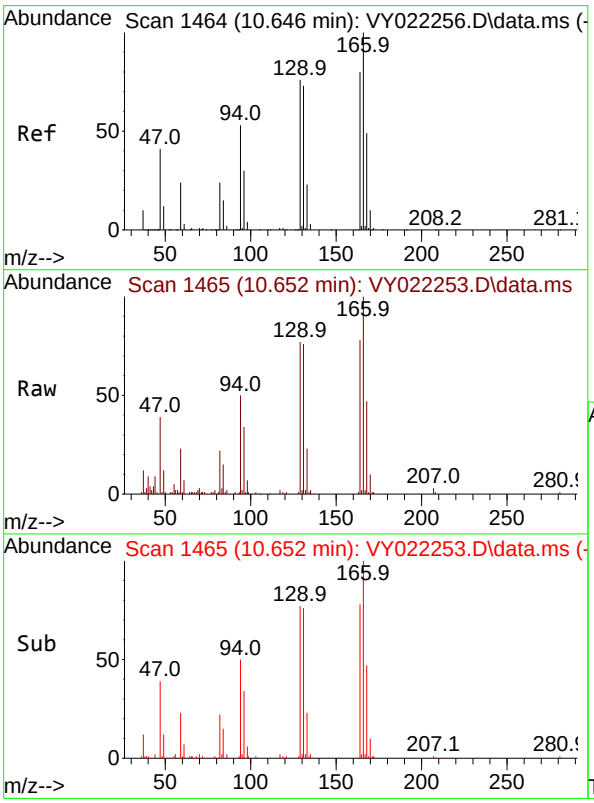
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.9 | 46.6 | 70.0 |
| 119 | 32.8 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

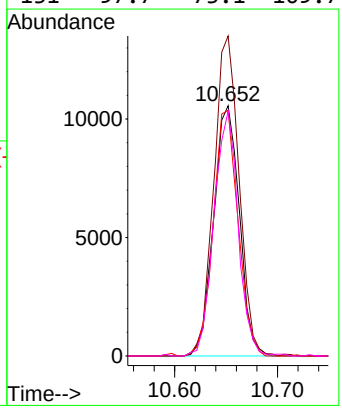
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

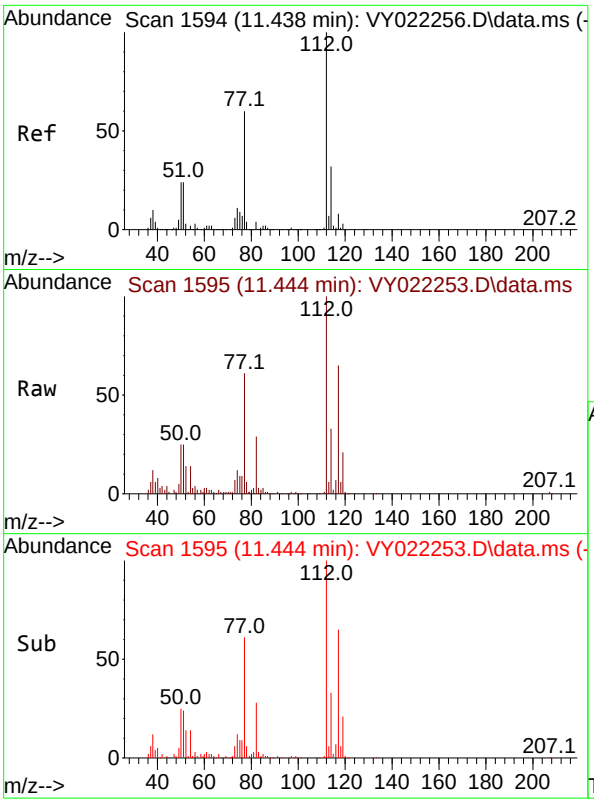



#64
Tetrachloroethene
Concen: 5.125 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:164 Resp: 18255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.8 | 100.4 | 150.6 |
| 129 | 98.1 | 76.4 | 114.6 |
| 131 | 97.7 | 73.1 | 109.7 |

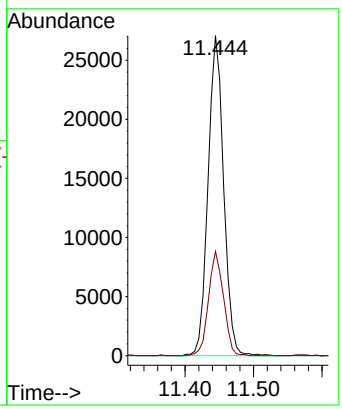





#65
Chlorobenzene
Concen: 4.927 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:112 Resp: 4284

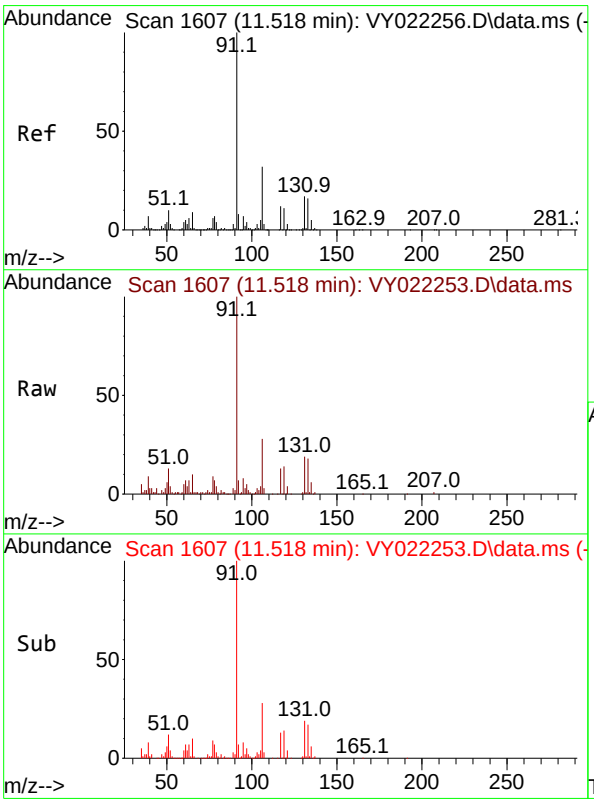
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.6 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

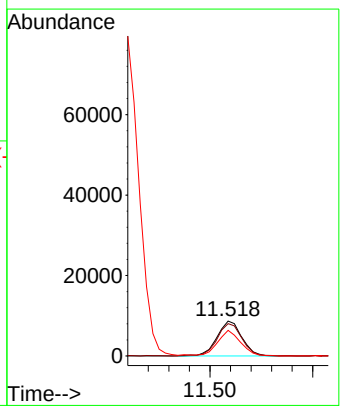
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

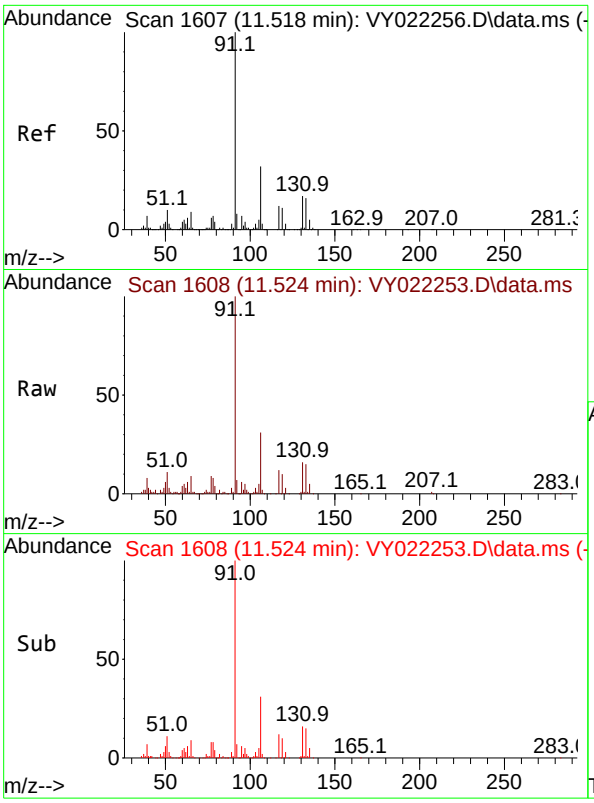



#66
1,1,1,2-Tetrachloroethane
Concen: 4.812 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:131 Resp: 14385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.9 | 47.3 | 141.9 |
| 119 | 68.6 | 33.1 | 99.2 |






#67
Ethyl Benzene
Concen: 4.766 ug/l
RT: 11.524 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

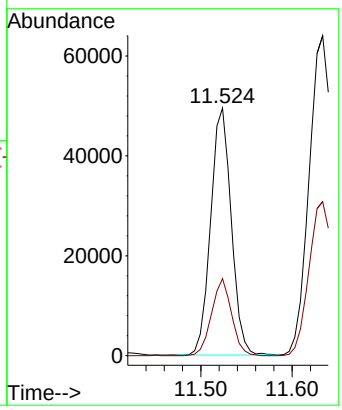
Tgt Ion: 91 Resp: 7760(

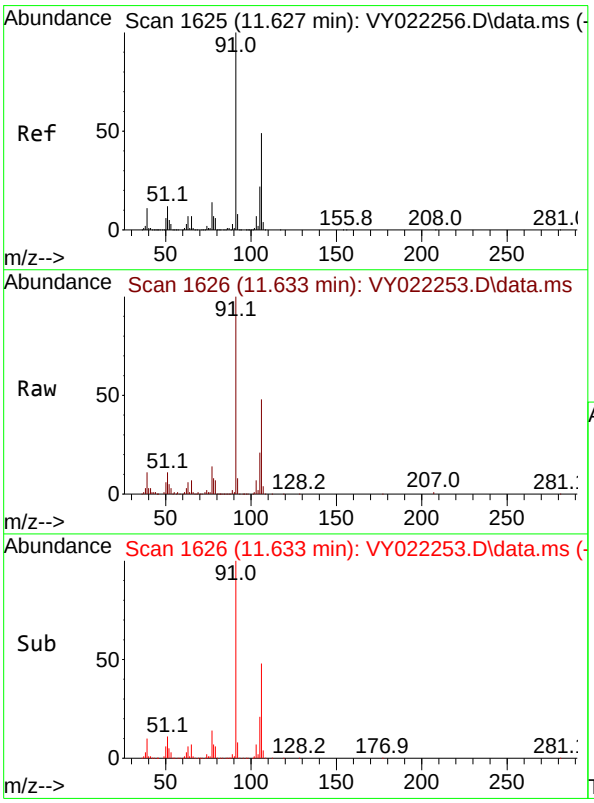
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 25.4 | 38.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

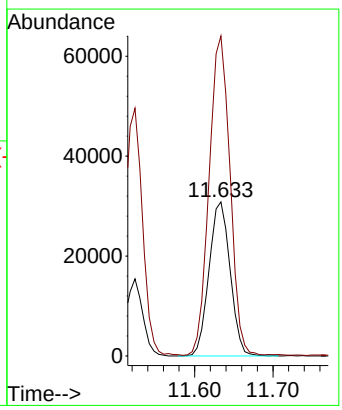


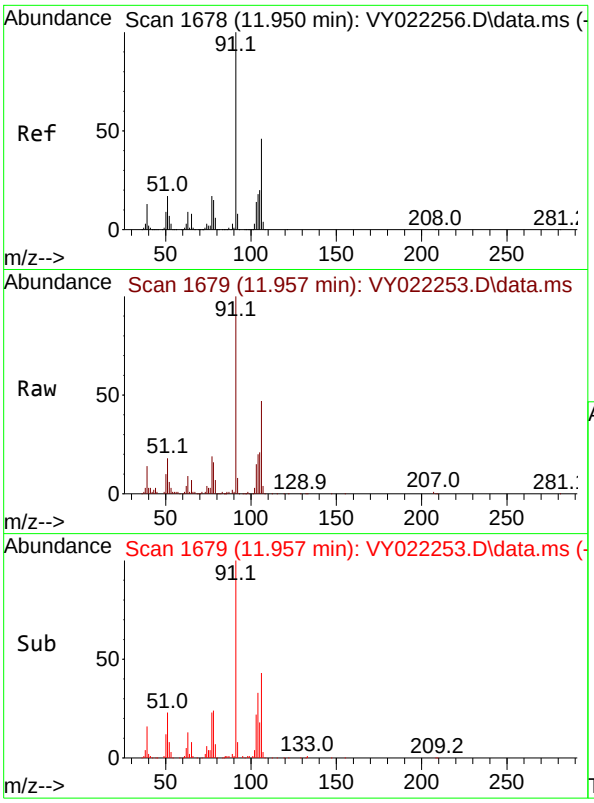




#68
m/p-Xylenes
Concen: 9.407 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:106 Resp: 57721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 205.0 | 163.0 | 244.4 |

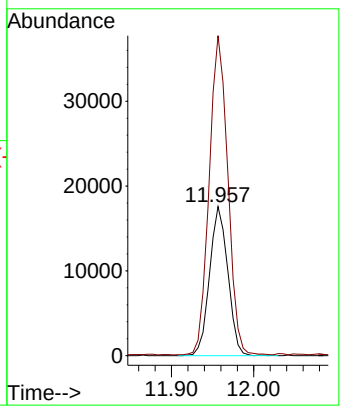





#69
o-Xylene
Concen: 4.673 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:106 Resp: 2713

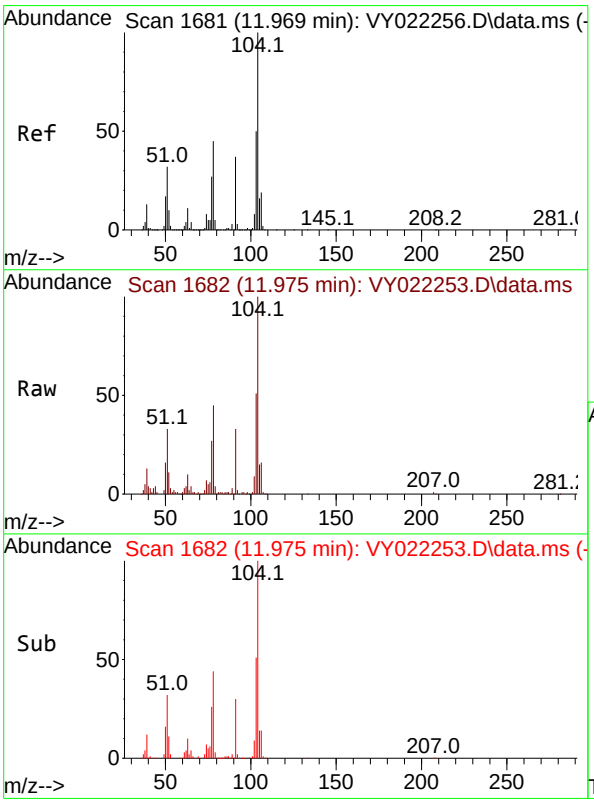
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 218.6 | 108.3 | 324.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

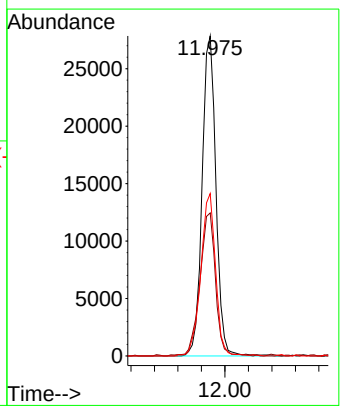
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

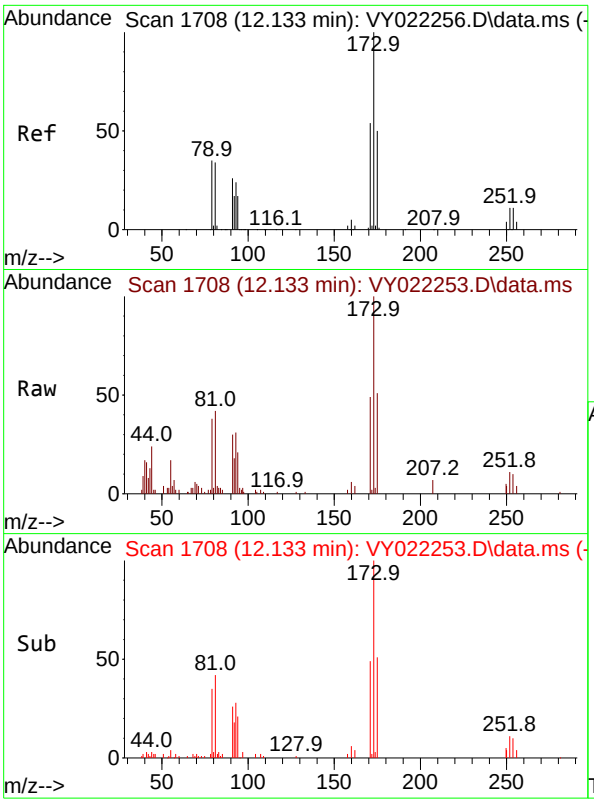



#70
Styrene
Concen: 4.652 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:104 Resp: 45556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.6 | 40.9 | 61.3 |
| 103 | 54.2 | 43.7 | 65.5 |

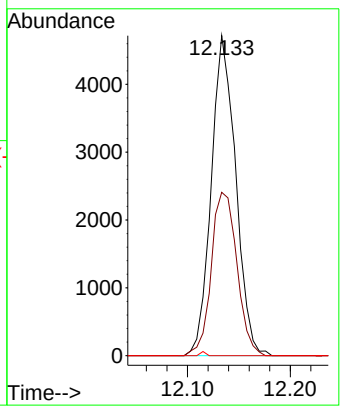





#71
Bromoform
Concen: 4.834 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:173 Resp: 7799

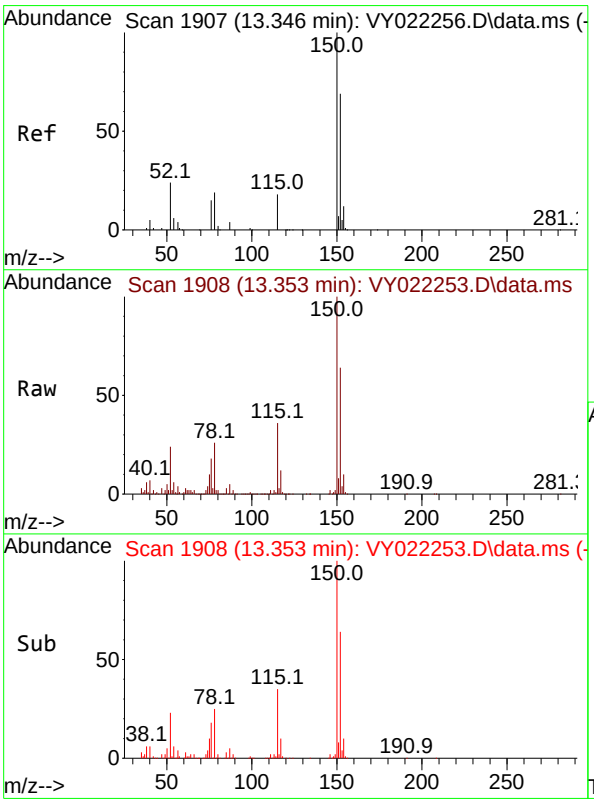
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 53.5 | 24.7 | 74.1 |
| 254 | 0.3 | 0.0 | 0.0# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

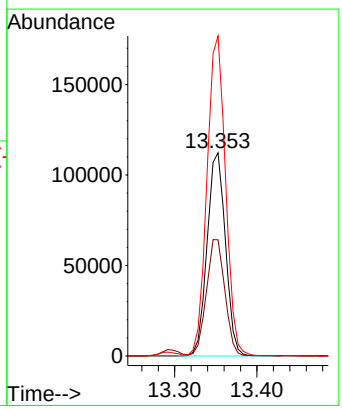
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

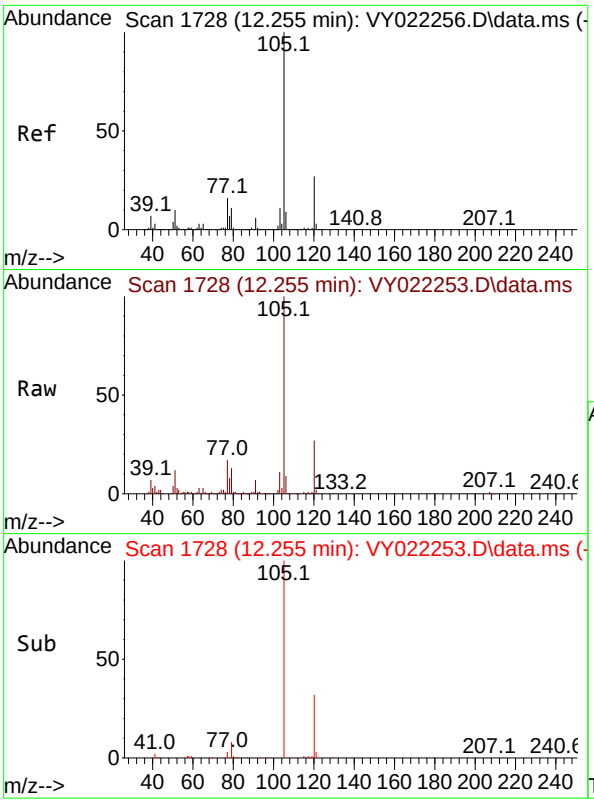



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:152 Resp: 174003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.0 | 29.4 | 88.2 |
| 150 | 158.8 | 0.0 | 353.8 |

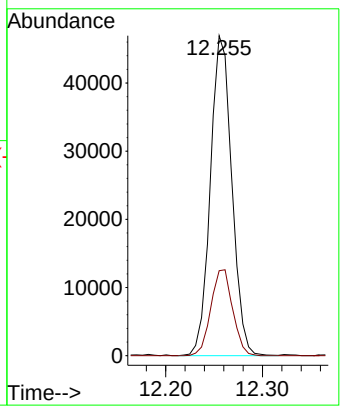





#73
Isopropylbenzene
Concen: 5.017 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:105 Resp: 7232

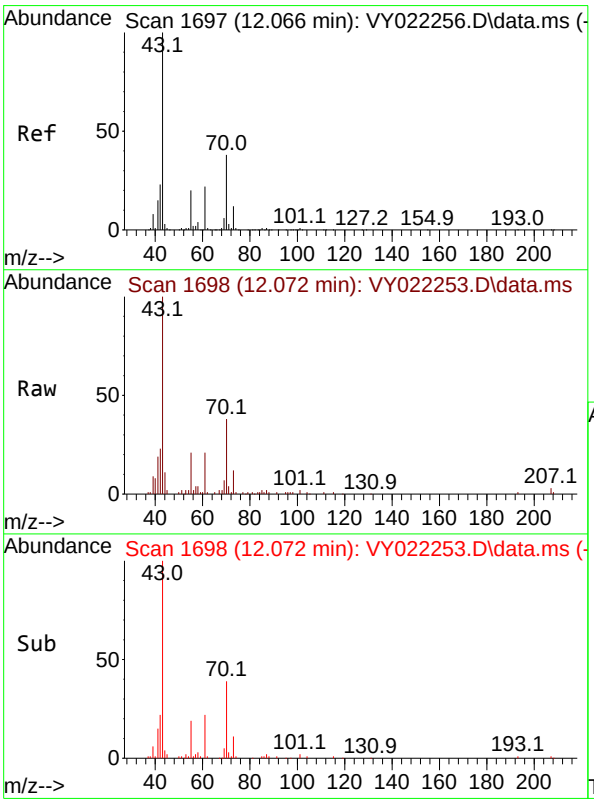
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.3 | 13.2 | 39.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

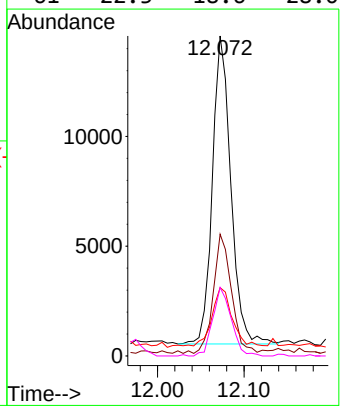
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

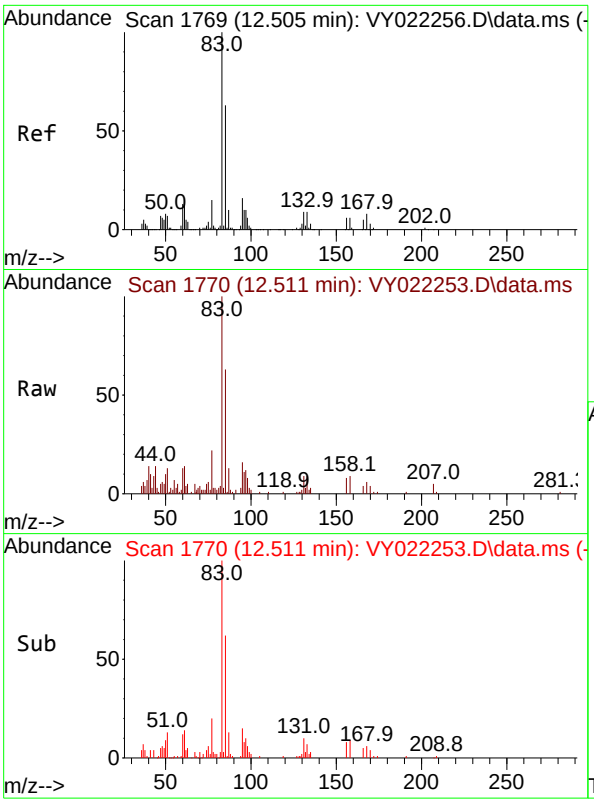



#74
N-amyl acetate
Concen: 5.043 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 20793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 37.9 | 31.4 | 47.0 |
| 55 | 19.9 | 17.0 | 25.6 |
| 61 | 22.3 | 18.6 | 28.0 |






#75
1,1,2,2-Tetrachloroethane
Concen: 5.152 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

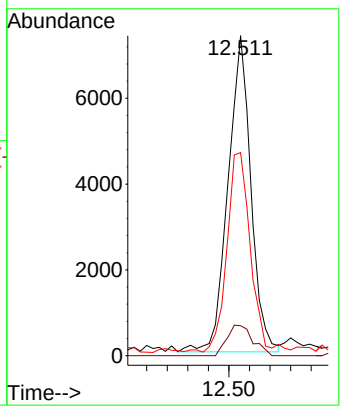
Tgt Ion: 83 Resp: 1142

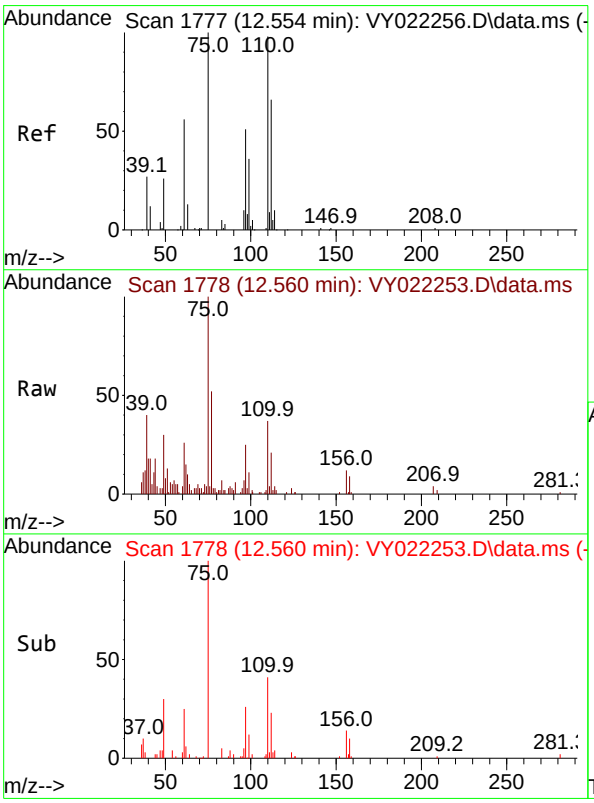
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.9 | 4.9 | 14.7 |
| 85 | 63.6 | 32.0 | 96.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

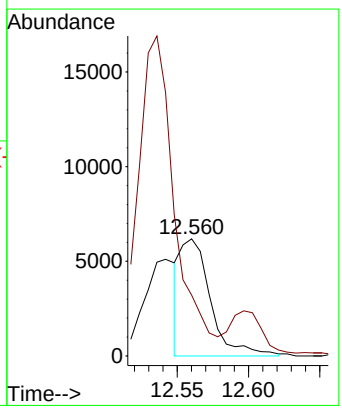


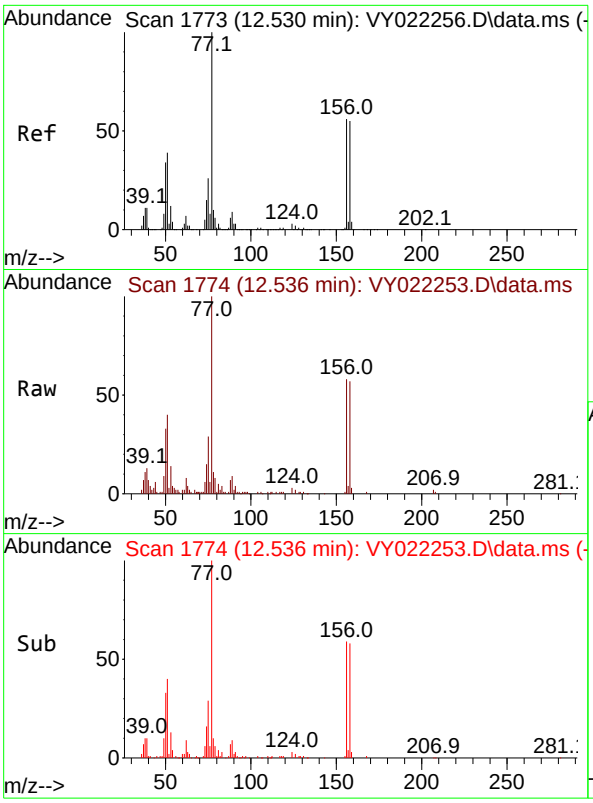




#76
1,2,3-Trichloropropane
Concen: 2.960 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 9076

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

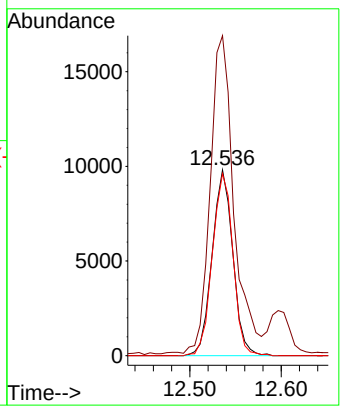





#77
Bromobenzene
Concen: 5.015 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:156 Resp: 1544

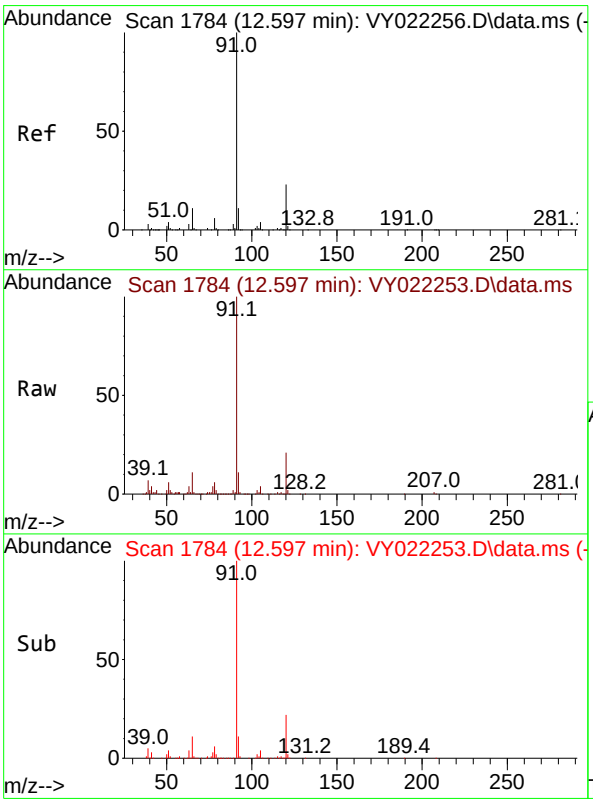
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 195.0 | 94.5 | 283.6 |
| 158 | 97.7 | 48.4 | 145.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

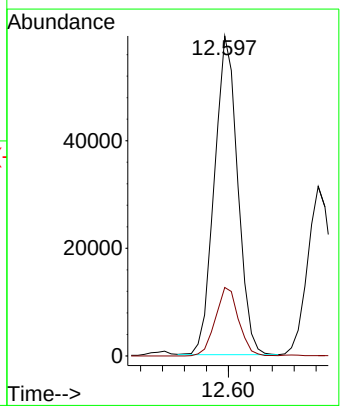
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

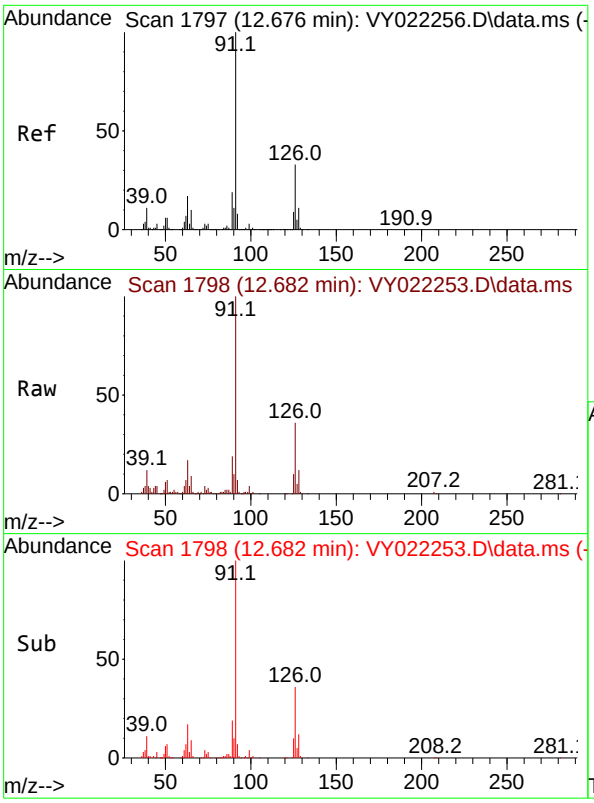



#78
n-propylbenzene
Concen: 5.034 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 91 Resp: 87533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.4 | 11.1 | 33.3 |

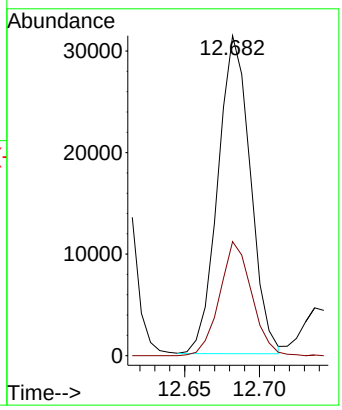





#79
2-Chlorotoluene
Concen: 4.944 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 91 Resp: 4724

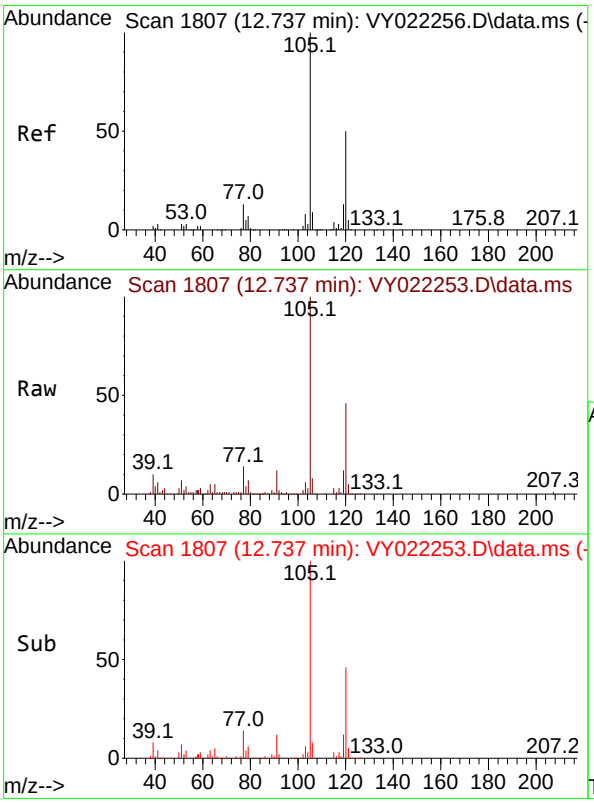
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.4 | 16.8 | 50.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

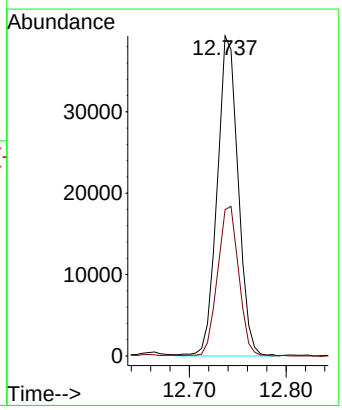
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

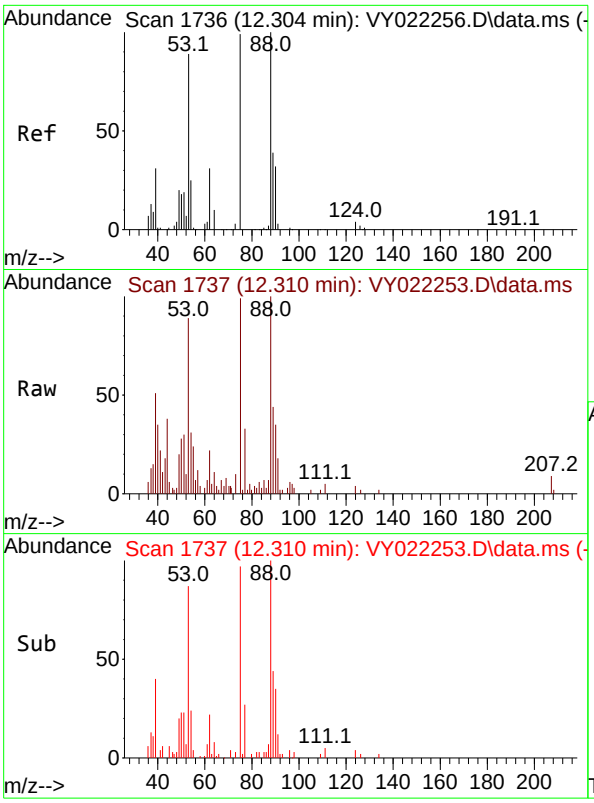



#80
1,3,5-Trimethylbenzene
Concen: 5.073 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:105 Resp: 59031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.3 | 24.2 | 72.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 5.373 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 93.6 | 75.8 | 113.8 |
| 89 | 50.0 | 36.2 | 54.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

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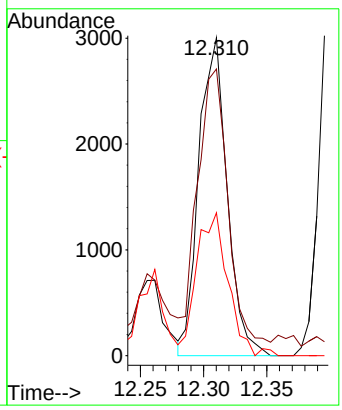
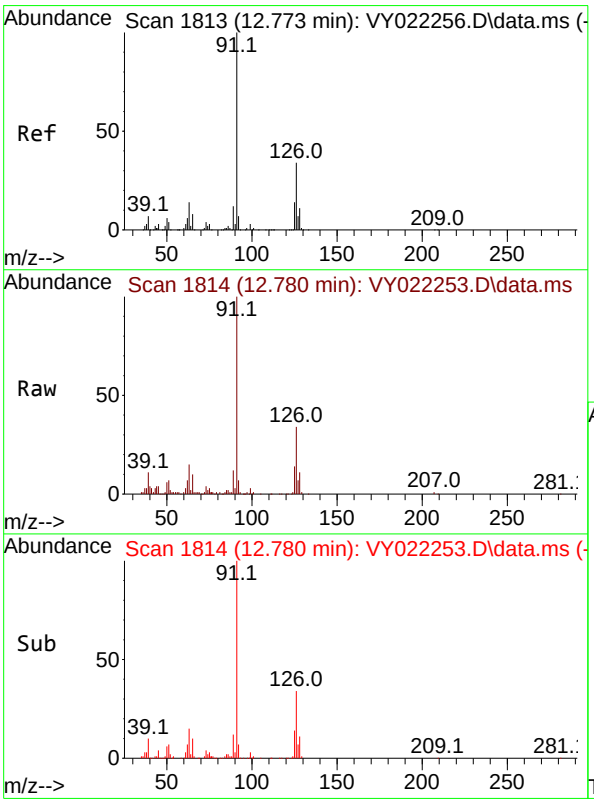
Supervised By :Semsettin Yesilyurt 05/16/2025

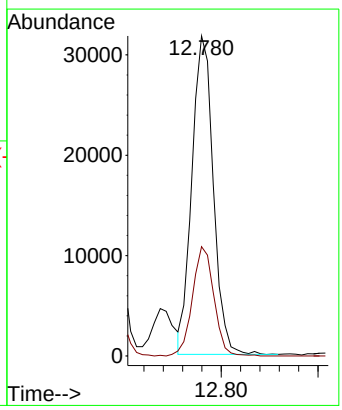


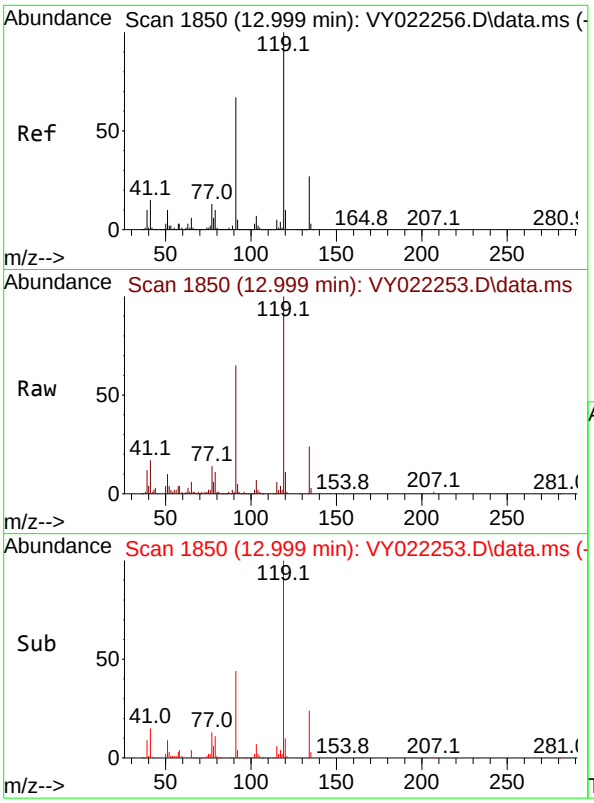




#82
4-Chlorotoluene
Concen: 4.959 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 91 Resp: 48737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.5 | 16.8 | 50.4 |

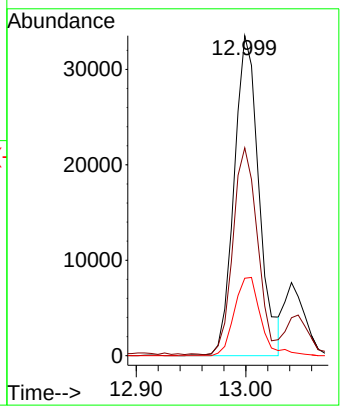





#83
tert-Butylbenzene
Concen: 5.109 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:119 Resp: 5284

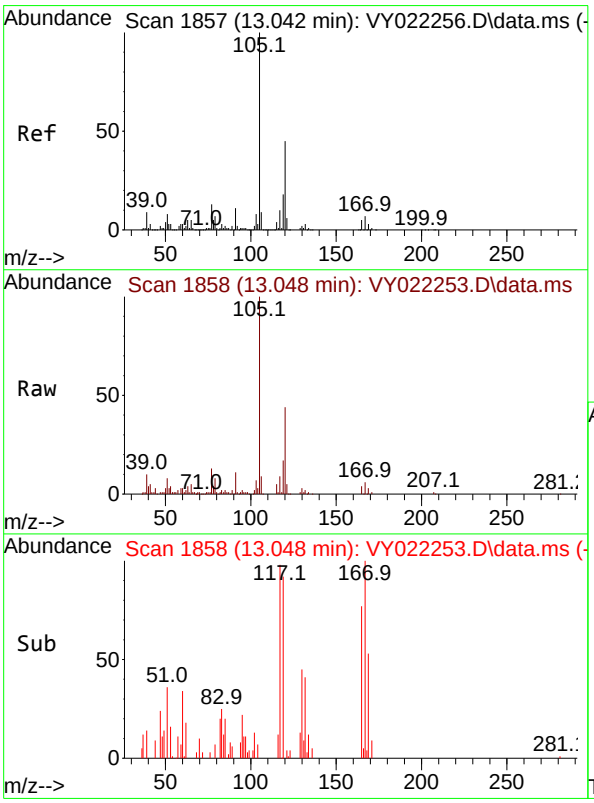
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.1 | 32.8 | 98.3 |
| 134 | 26.0 | 12.9 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

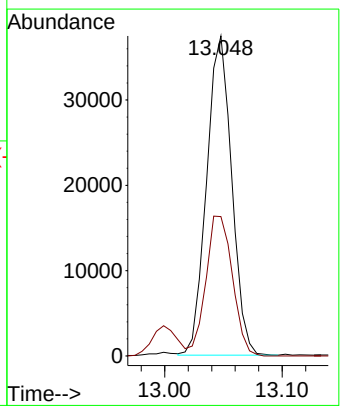
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

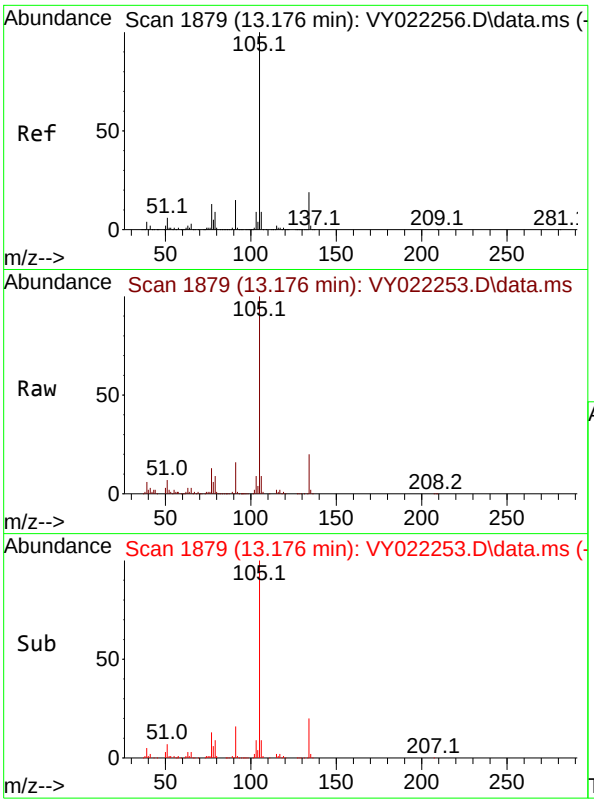



#84
1,2,4-Trimethylbenzene
Concen: 4.804 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:105 Resp: 55488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.5 | 22.3 | 66.9 |






#85
sec-Butylbenzene
Concen: 4.975 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:105 Resp: 7638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.9 | 9.8 | 29.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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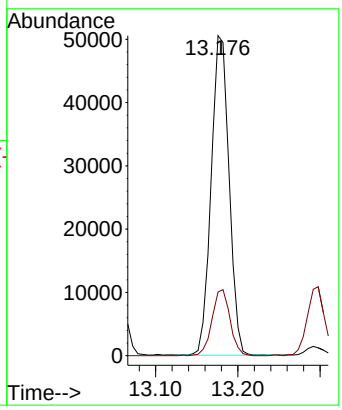
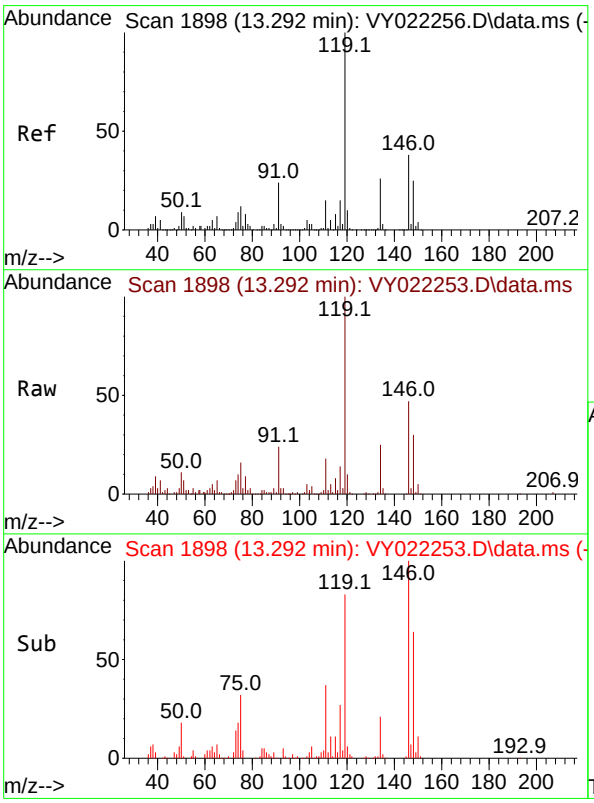
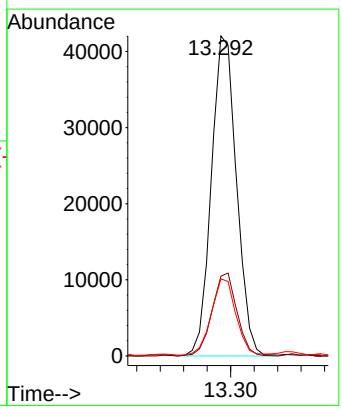


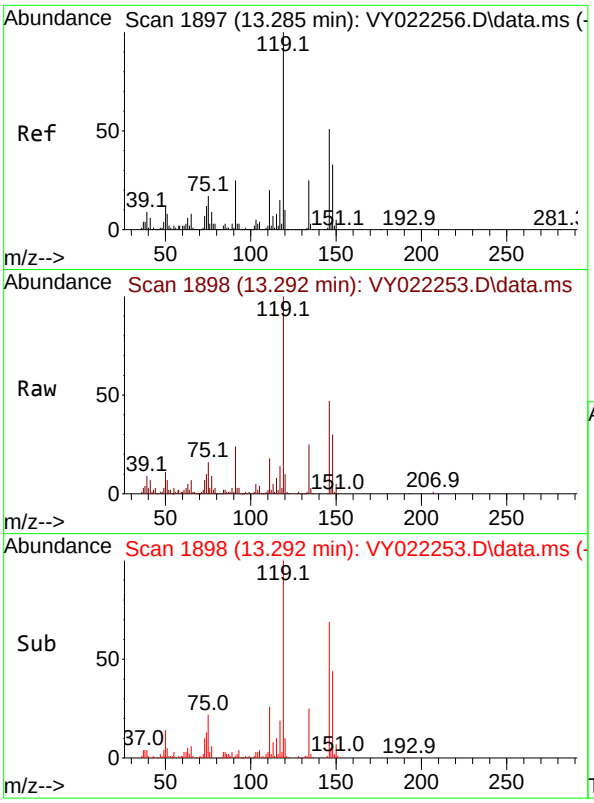




#86
p-Isopropyltoluene
Concen: 4.849 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:119 Resp: 62608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.5 | 12.9 | 38.6 |
| 91 | 23.2 | 12.1 | 36.3 |

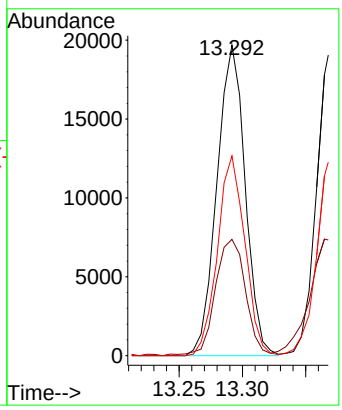





#87
1,3-Dichlorobenzene
Concen: 4.863 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:146 Resp: 3056

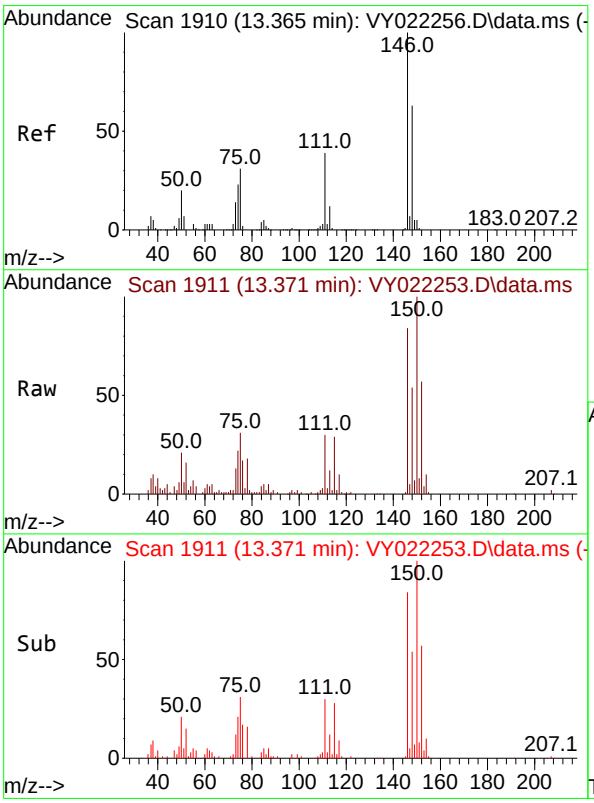
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 19.9 | 59.7 |
| 148 | 62.5 | 31.9 | 95.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

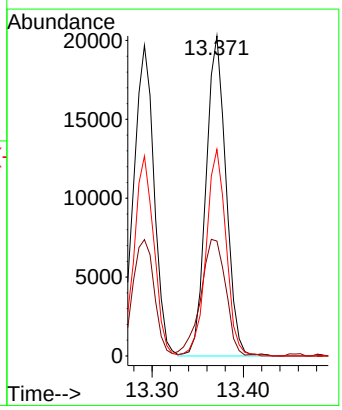
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

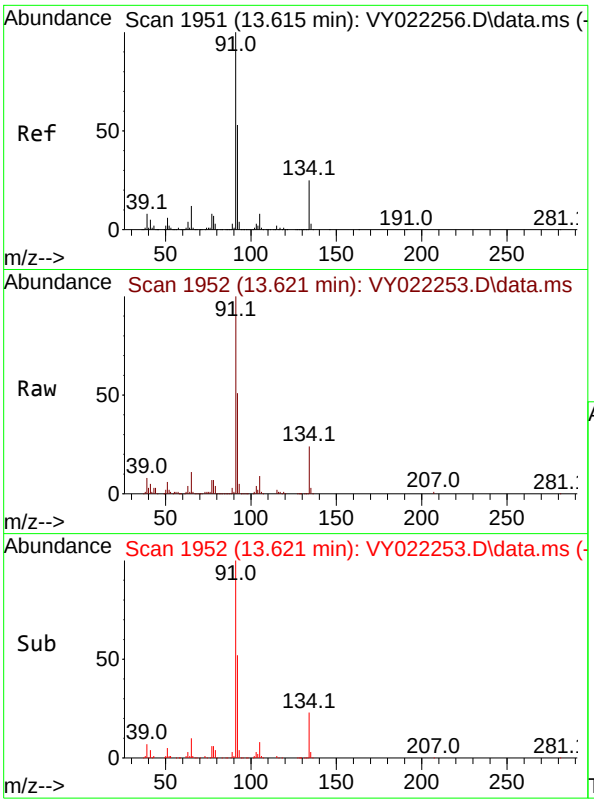



#88
1,4-Dichlorobenzene
Concen: 5.063 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:146 Resp: 30610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.2 | 20.0 | 59.9 |
| 148 | 64.8 | 32.1 | 96.5 |

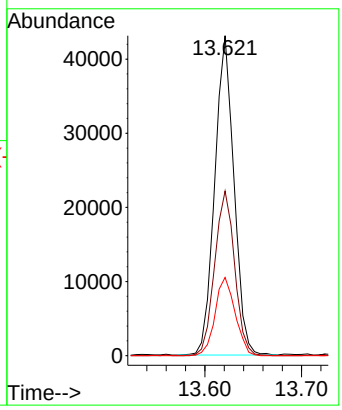





#89
n-Butylbenzene
Concen: 4.869 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 91 Resp: 5948

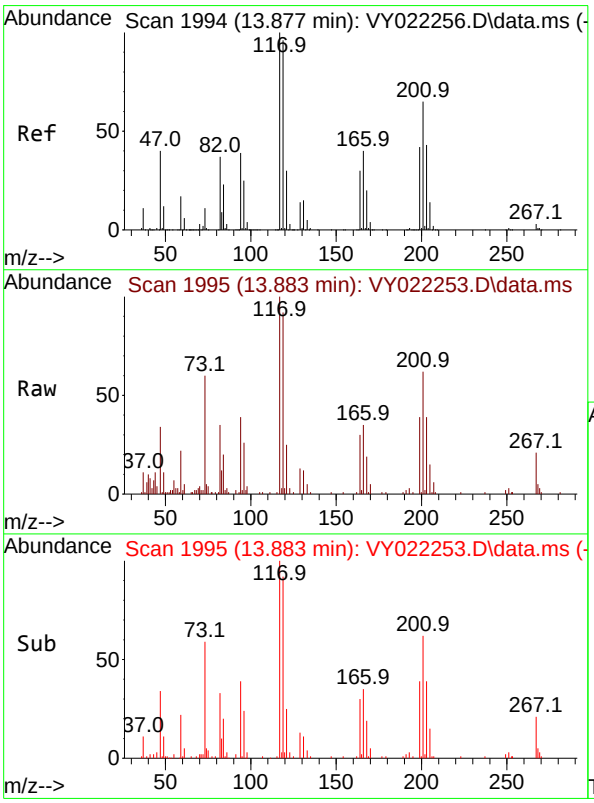
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.6 | 26.3 | 78.9 |
| 134 | 25.6 | 12.4 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

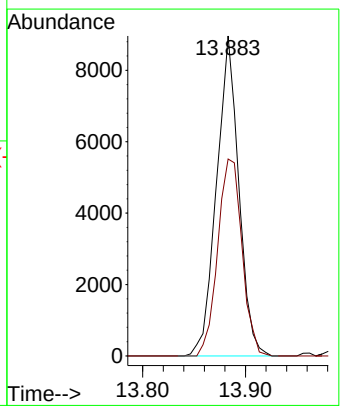
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

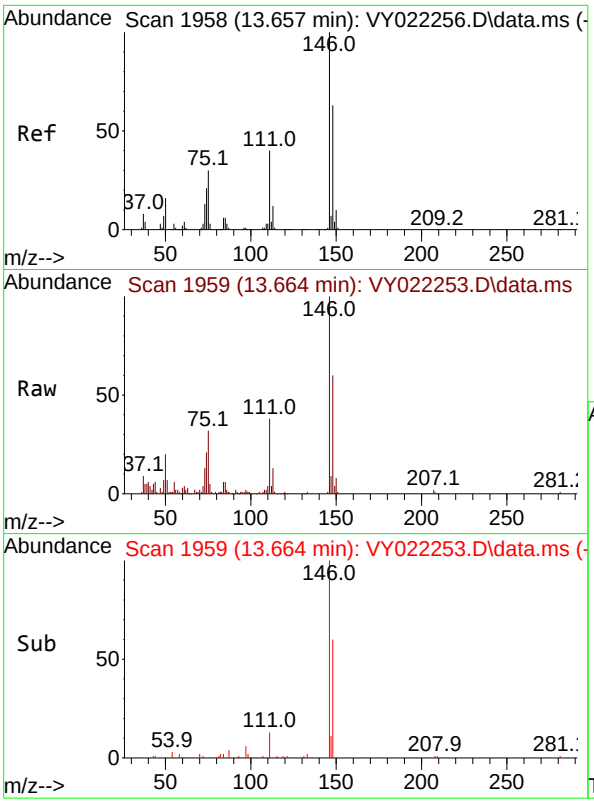



#90
Hexachloroethane
Concen: 5.158 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:117 Resp: 13445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 67.2 | 35.2 | 105.6 |

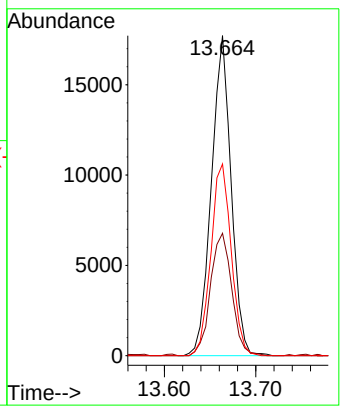





#91
1,2-Dichlorobenzene
Concen: 5.030 ug/l
RT: 13.664 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:146 Resp: 2655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.2 | 20.5 | 61.5 |
| 148 | 61.8 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

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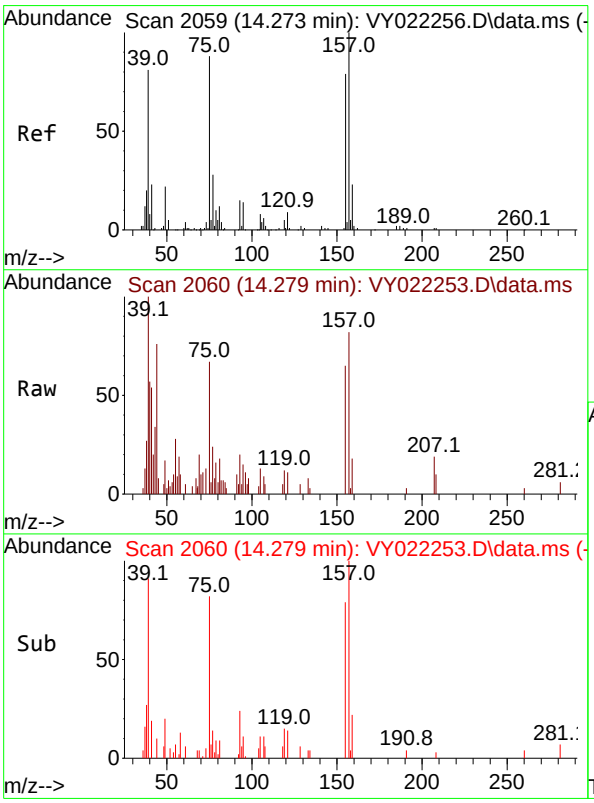
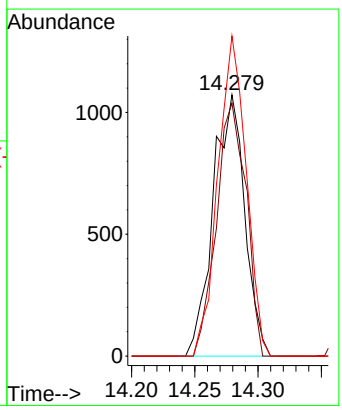
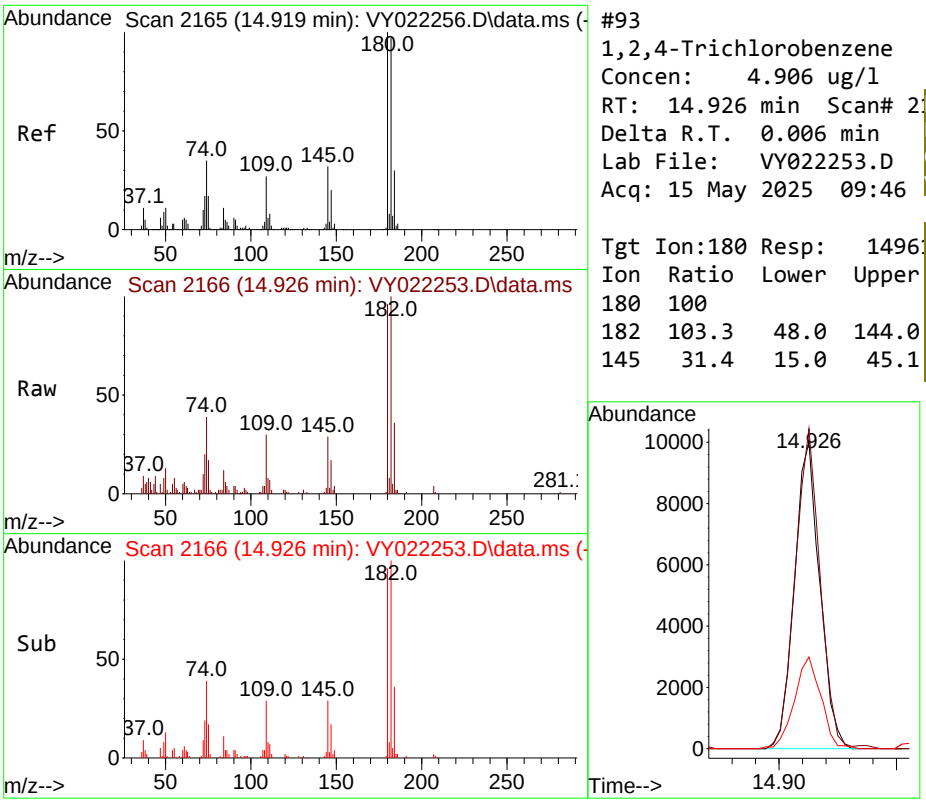



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.217 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 1865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 90.8 | 43.4 | 130.1 |
| 157 | 109.4 | 54.6 | 163.9 |






#93
1,2,4-Trichlorobenzene
Concen: 4.906 ug/l
RT: 14.926 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:180 Resp: 1496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 103.3 | 48.0 | 144.0 |
| 145 | 31.4 | 15.0 | 45.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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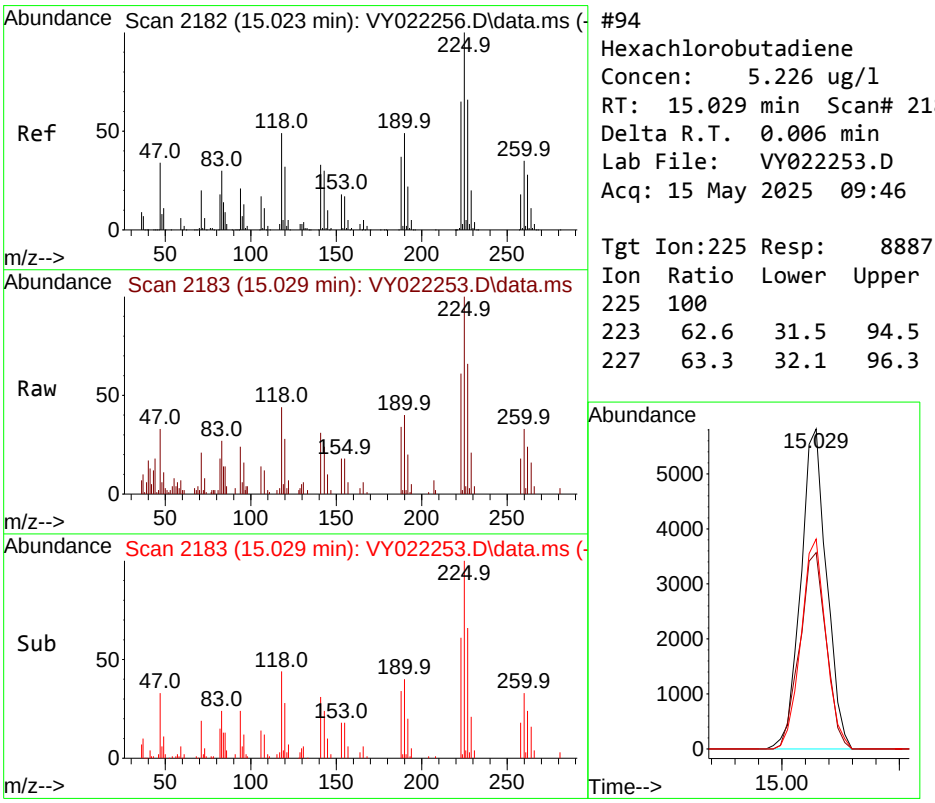
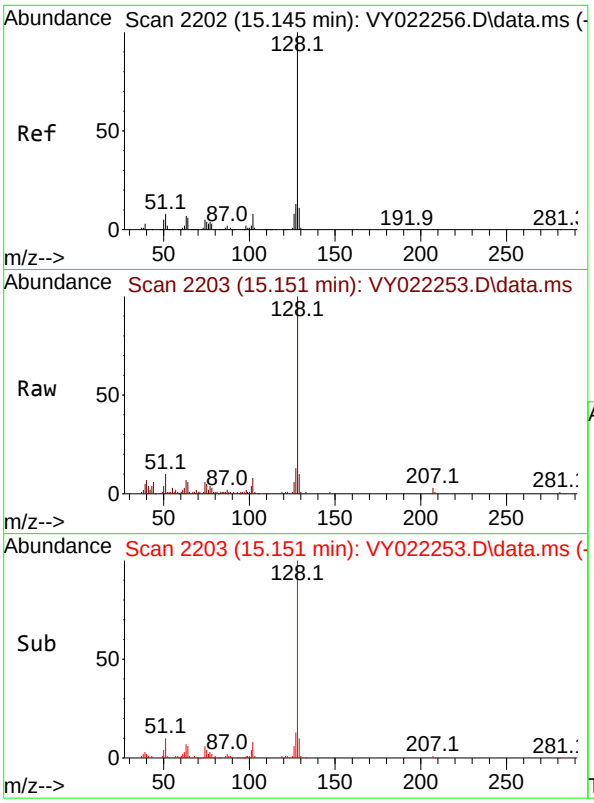



#94
Hexachlorobutadiene
Concen: 5.226 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:225 Resp: 8887

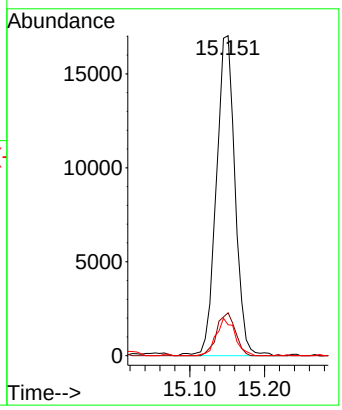
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.6 | 31.5 | 94.5 |
| 227 | 63.3 | 32.1 | 96.3 |




#95
Naphthalene
Concen: 5.124 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:128 Resp: 2965

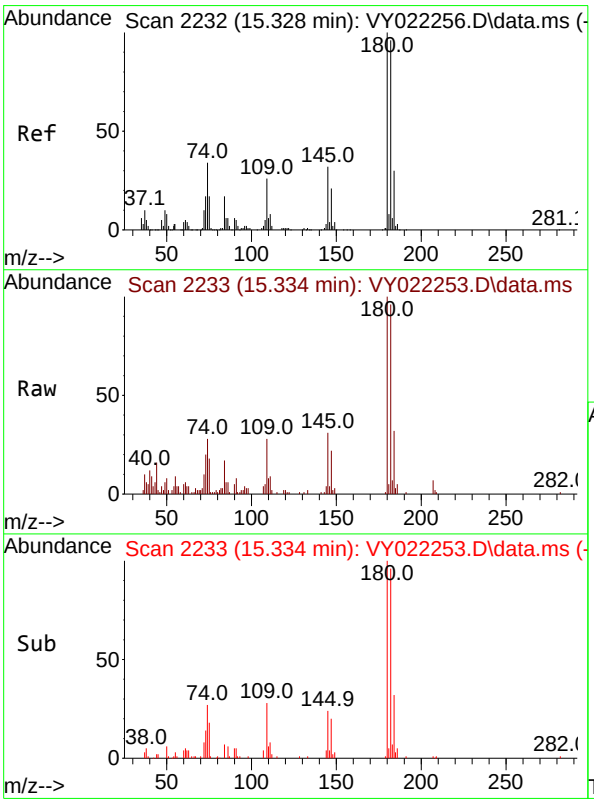
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.2 | 15.2 |
| 129 | 11.7 | 8.8 | 13.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

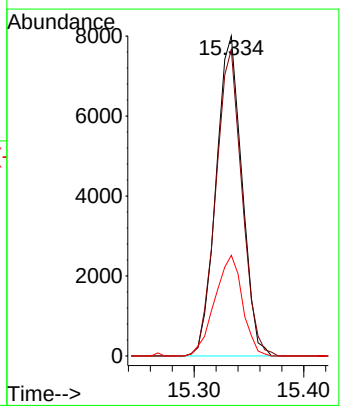
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025




#96
1,2,3-Trichlorobenzene
Concen: 5.063 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:180 Resp: 13097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.6 | 47.1 | 141.3 |
| 145 | 33.7 | 15.9 | 47.6 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022254.D
Acq On : 15 May 2025 10:16
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

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

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:21:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 265034 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 446109 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 377211 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 171972 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 29608 | 10.222 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 20.440%# | | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 26242 | 9.856 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 19.720%# | | | | |
| 50) Toluene-d8 | 10.109 | 98 | 107048 | 9.816 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 19.640%# | | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 34423 | 9.959 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 19.920%# | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 31097 | 11.245 | ug/l | | 99 |
| 3) Chloromethane | 2.068 | 50 | 65589 | 11.275 | ug/l | | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 69800 | 10.739 | ug/l | | 95 |
| 5) Bromomethane | 2.592 | 94 | 54773 | 10.352 | ug/l | | 99 |
| 6) Chloroethane | 2.732 | 64 | 43122 | 10.665 | ug/l | | 99 |
| 7) Trichlorofluoromethane | 3.056 | 101 | 68501 | 10.410 | ug/l | | 99 |
| 8) Diethyl Ether | 3.458 | 74 | 16945 | 10.730 | ug/l | | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 30591 | 10.708 | ug/l | | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 31088 | 9.402 | ug/l | | 97 |
| 11) Tert butyl alcohol | 4.878 | 59 | 12043 | 54.446 | ug/l | # | 100 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 28831 | 10.170 | ug/l | | 95 |
| 13) Acrolein | 3.659 | 56 | 17927 | 55.439 | ug/l | | 96 |
| 14) Allyl chloride | 4.378 | 41 | 51275 | 10.315 | ug/l | | 99 |
| 15) Acrylonitrile | 5.061 | 53 | 33277 | 51.139 | ug/l | | 100 |
| 16) Acetone | 3.879 | 43 | 30229 | 55.657 | ug/l | | 100 |
| 17) Carbon Disulfide | 4.104 | 76 | 96591 | 10.448 | ug/l | | 97 |
| 18) Methyl Acetate | 4.385 | 43 | 16338 | 9.886 | ug/l | | 94 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 80714 | 10.326 | ug/l | | 96 |
| 20) Methylene Chloride | 4.622 | 84 | 42991 | 12.250 | ug/l | | 95 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 32258 | 10.309 | ug/l | | 98 |
| 22) Diisopropyl ether | 6.018 | 45 | 106493 | 10.145 | ug/l | | 94 |
| 23) Vinyl Acetate | 5.964 | 43 | 324651 | 51.192 | ug/l | | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 60198 | 10.265 | ug/l | | 97 |
| 25) 2-Butanone | 6.896 | 43 | 48022 | 52.859 | ug/l | | 98 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 54264 | 10.403 | ug/l | | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 36403 | 10.081 | ug/l | | 98 |
| 28) Bromochloromethane | 7.244 | 49 | 25664 | 10.259 | ug/l | | 98 |
| 29) Tetrahydrofuran | 7.274 | 42 | 30684 | 52.498 | ug/l | | 98 |
| 30) Chloroform | 7.421 | 83 | 57172 | 10.163 | ug/l | | 100 |
| 31) Cyclohexane | 7.701 | 56 | 63155 | 10.778 | ug/l | | 95 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 52856 | 10.242 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 44817 | 10.219 | ug/l | | 97 |
| 37) Ethyl Acetate | 6.994 | 43 | 20624 | 9.774 | ug/l | | 97 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 46772 | 10.303 | ug/l | | 97 |
| 39) Methylcyclohexane | 9.109 | 83 | 60489 | 10.266 | ug/l | | 98 |
| 40) Benzene | 8.079 | 78 | 130423 | 10.032 | ug/l | | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022254.D
Acq On : 15 May 2025 10:16
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 01:21:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.250 | 41 | 16228m | 10.510 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 35565 | 10.115 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.201 | 43 | 47020 | 10.217 | ug/l | | 98 |
| 44) Trichloroethene | 8.865 | 130 | 32655 | 10.101 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 32172 | 10.264 | ug/l | | 93 |
| 46) Dibromomethane | 9.231 | 93 | 17134 | 10.135 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.426 | 83 | 44045 | 10.042 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.225 | 41 | 21202 | 9.851 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.231 | 88 | 3930 | 205.769 | ug/l | # | 75 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 110396 | 48.889 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 82453 | 10.015 | ug/l | | 96 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 42158 | 9.849 | ug/l | | 96 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 48923 | 9.976 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 21720 | 10.033 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 32286 | 9.574 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 38908 | 10.115 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 66700 | 44.066 | ug/l | | 100 |
| 59) 2-Hexanone | 10.761 | 43 | 74432 | 49.162 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.914 | 129 | 28002 | 9.965 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 20378 | 10.099 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 36274 | 10.404 | ug/l | | 99 |
| 65) Chlorobenzene | 11.444 | 112 | 83730 | 9.839 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 28441 | 9.721 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.517 | 91 | 154155 | 9.672 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.627 | 106 | 116113 | 19.334 | ug/l | | 99 |
| 69) o-Xylene | 11.956 | 106 | 55896 | 9.837 | ug/l | | 96 |
| 70) Styrene | 11.969 | 104 | 91569 | 9.553 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 16151 | 10.228 | ug/l | # | 95 |
| 73) Isopropylbenzene | 12.255 | 105 | 144186 | 10.120 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 40345 | 9.901 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 22243 | 10.152 | ug/l | | 96 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 16056m | 5.297 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 30445 | 10.005 | ug/l | | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 173575 | 10.101 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 95815 | 10.146 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 116461 | 10.126 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 8934 | 10.388 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 97309 | 10.018 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 102274 | 10.005 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 115175 | 10.088 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 153443 | 10.112 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 124147 | 9.728 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 61011 | 9.822 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 60723 | 10.163 | ug/l | | 97 |
| 89) n-Butylbenzene | 13.621 | 91 | 120371 | 9.970 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 26089 | 10.127 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 52282 | 10.020 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 3588 | 10.155 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 29073 | 9.646 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 16686 | 9.927 | ug/l | | 98 |
| 95) Naphthalene | 15.145 | 128 | 54307 | 9.495 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 24790 | 9.696 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022254.D
Acq On : 15 May 2025 10:16
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:21:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

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

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

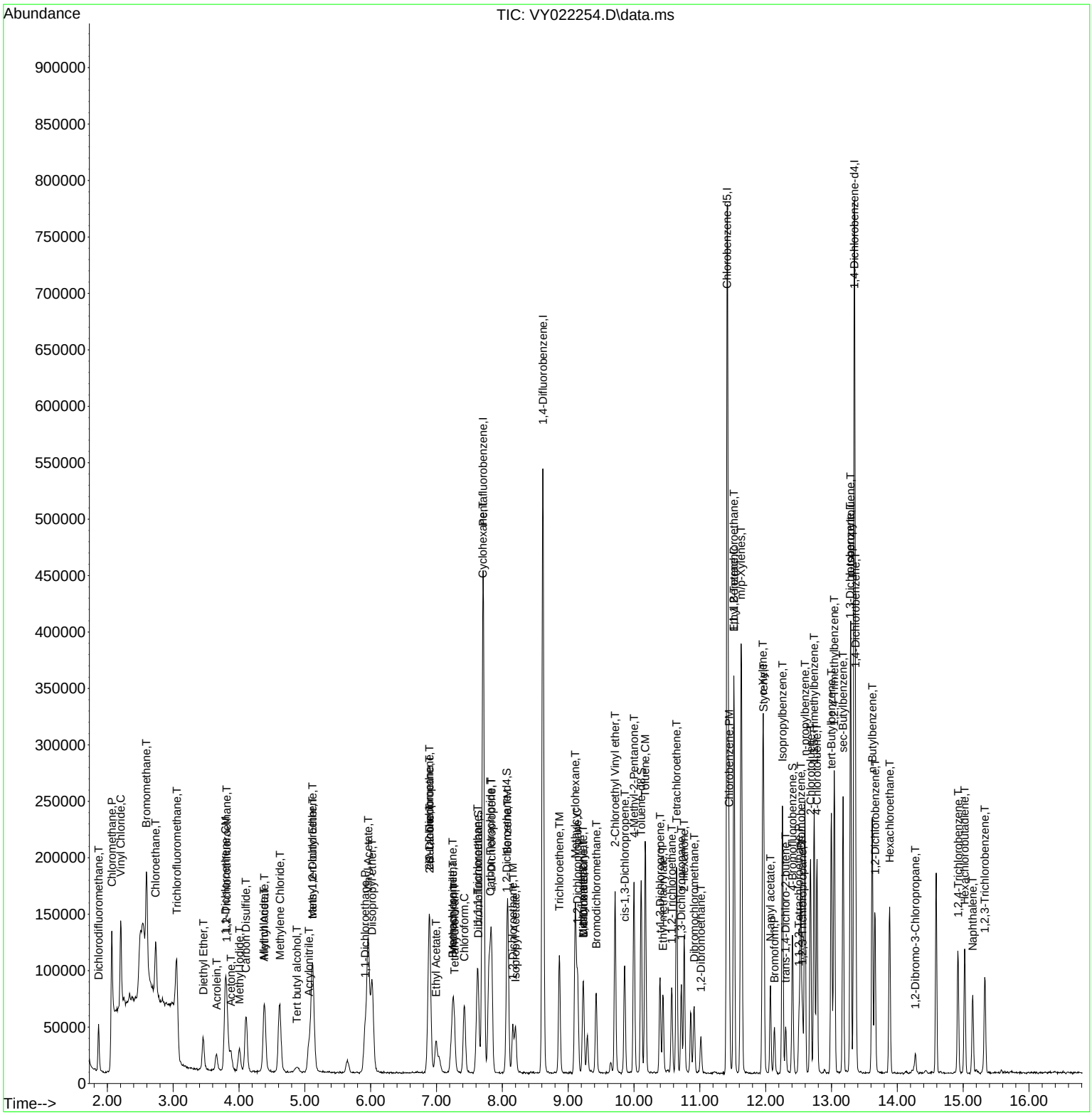
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022254.D
Acq On : 15 May 2025 10:16
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

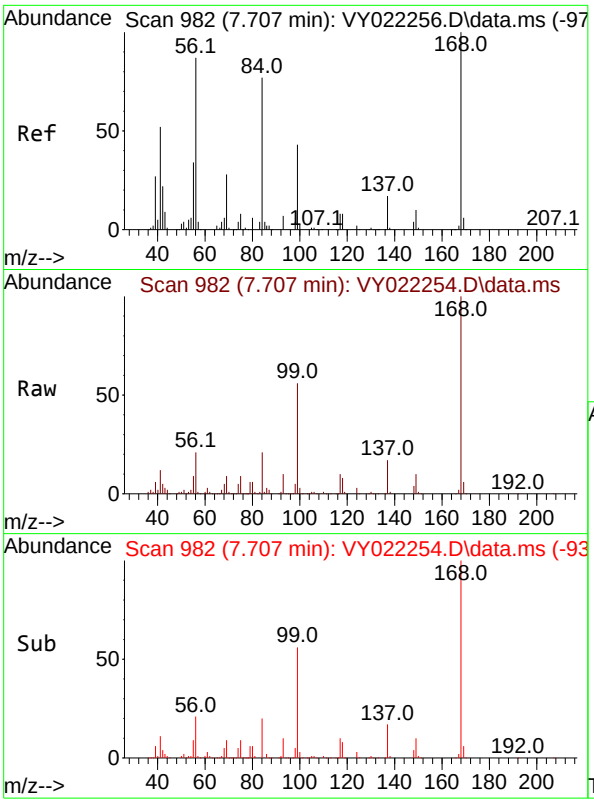
Quant Time: May 16 01:21:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

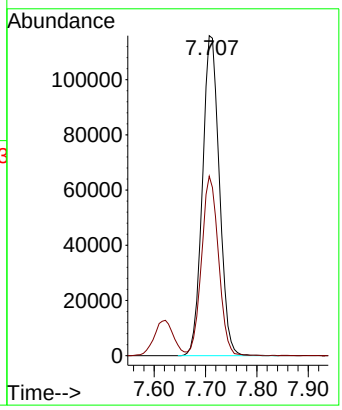
Tgt Ion:168 Resp: 26503

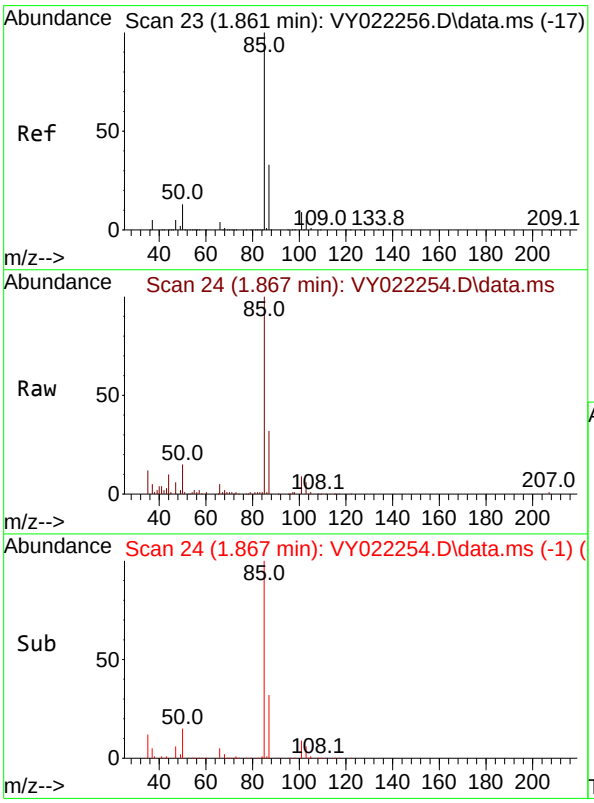
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.1 | 44.2 | 66.4 |

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

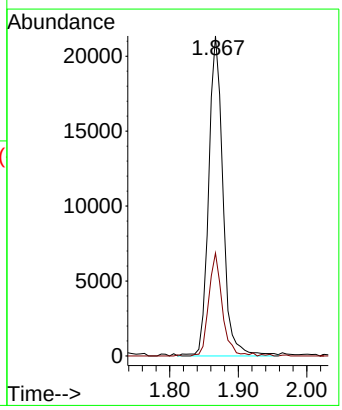


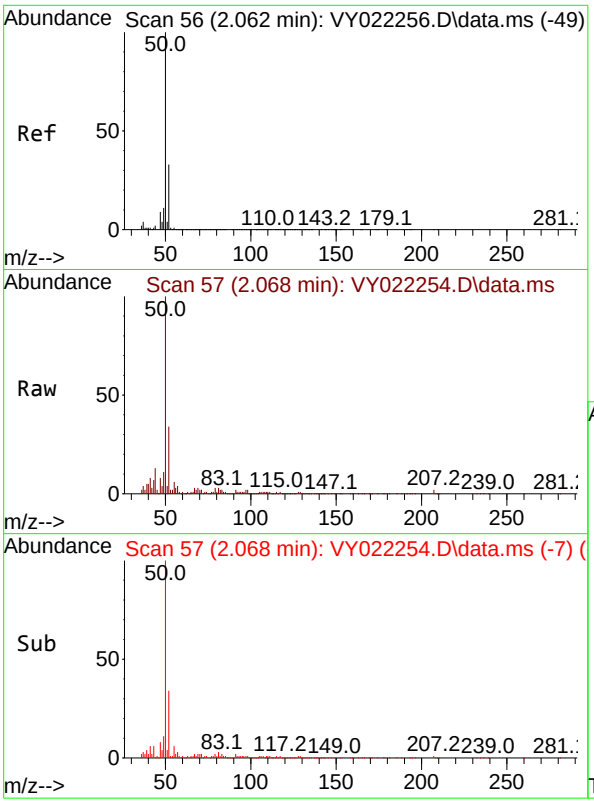




#2
Dichlorodifluoromethane
Concen: 11.245 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 85 Resp: 31097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.2 | 16.5 | 49.5 |

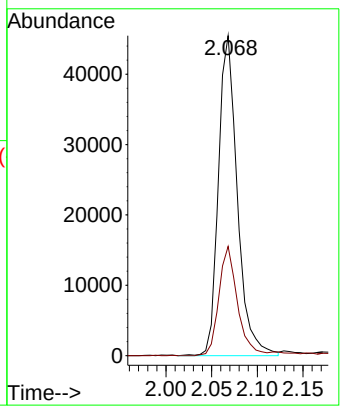





#3
Chloromethane
Concen: 11.275 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 50 Resp: 6558

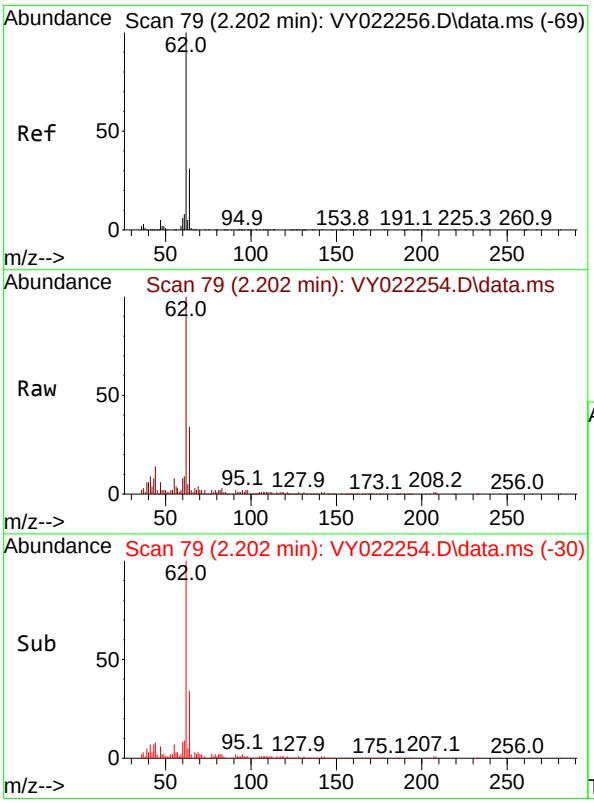
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.1 | 26.5 | 39.7 |




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

**Manual Integrations**
**APPROVED**

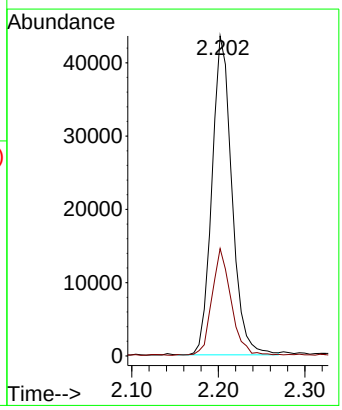
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

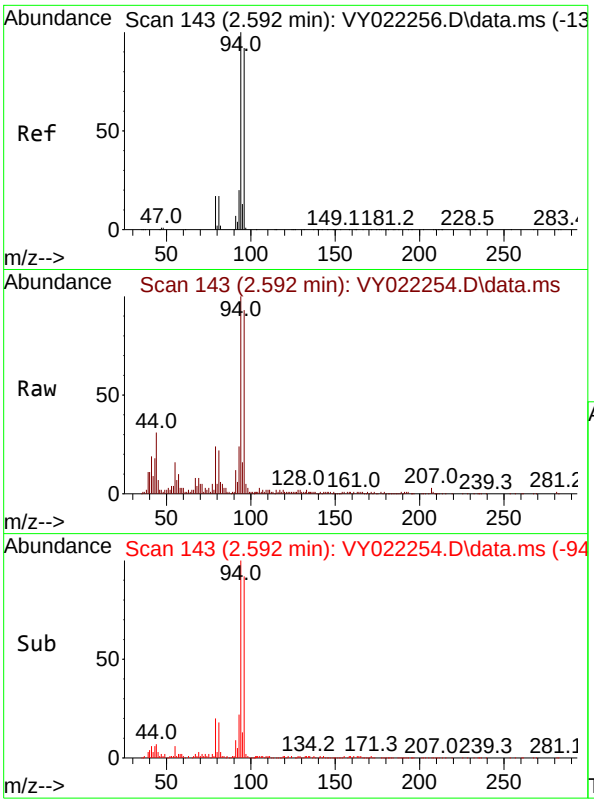



#4
Vinyl Chloride
Concen: 10.739 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 62 Resp: 69800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.2 | 24.5 | 36.7 |

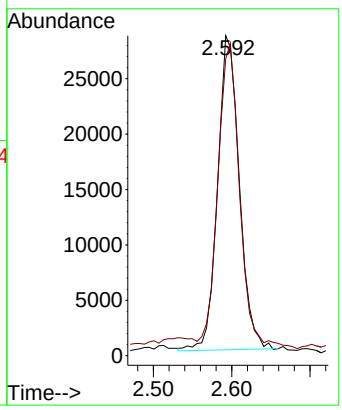





#5
Bromomethane
Concen: 10.352 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 94 Resp: 5477

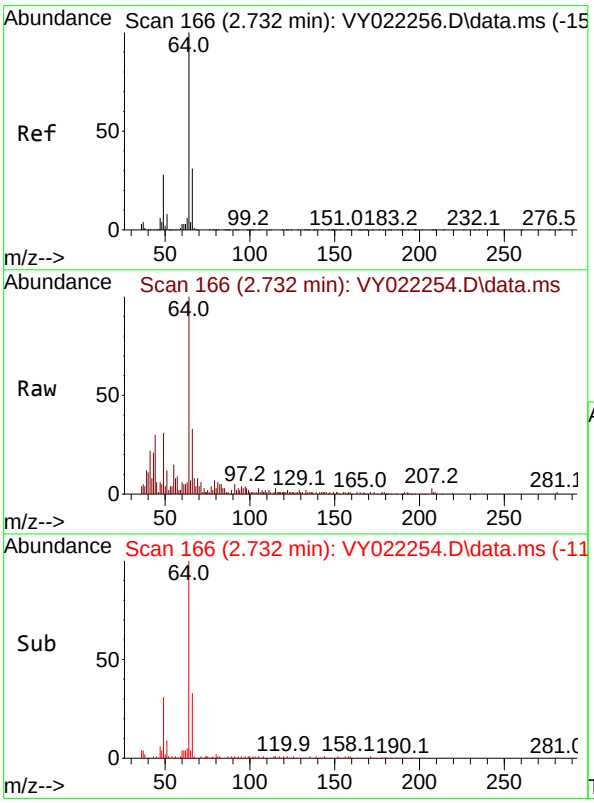
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 90.9 | 73.4 | 110.0 |




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

**Manual Integrations**
**APPROVED**

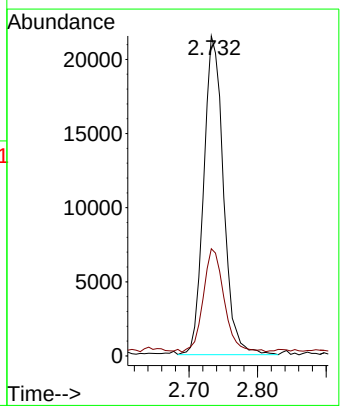
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

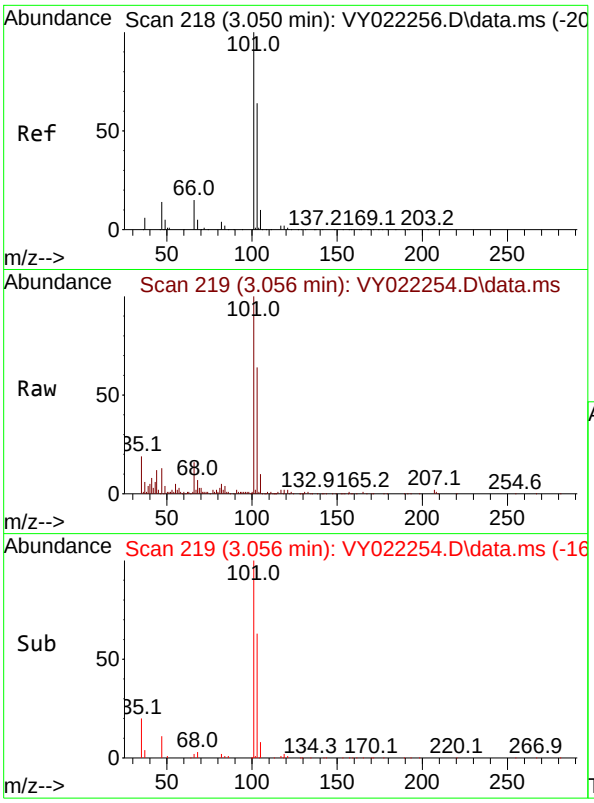



#6
Chloroethane
Concen: 10.665 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 64 Resp: 43122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.6 | 24.8 | 37.2 |

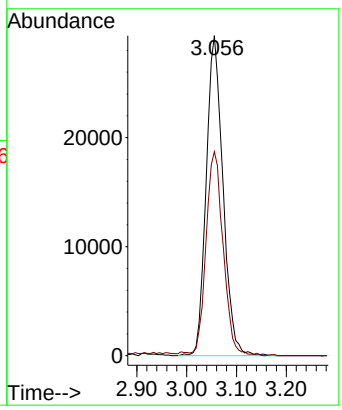





#7
Trichlorofluoromethane
Concen: 10.410 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:101 Resp: 6850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.8 | 51.7 | 77.5 |




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

**Manual Integrations**
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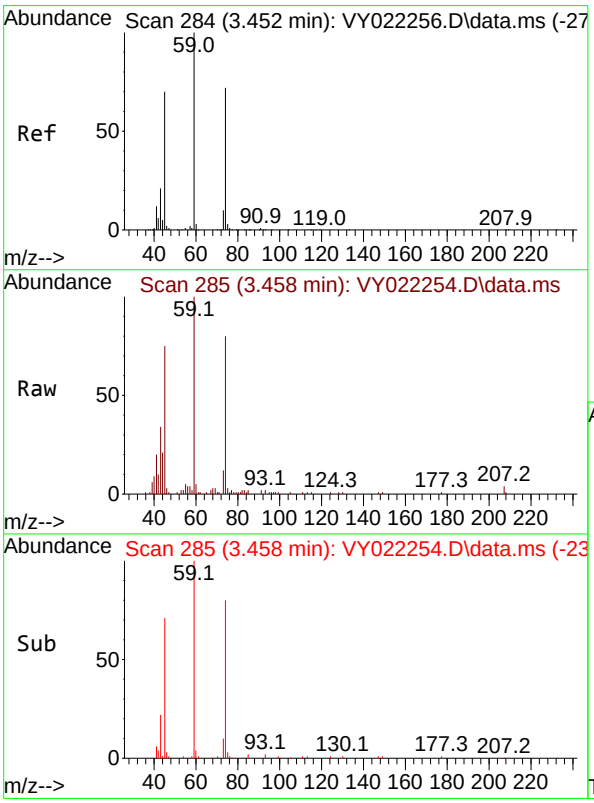
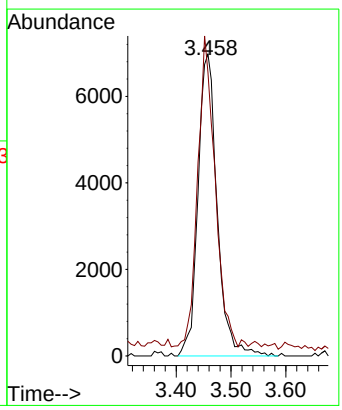
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

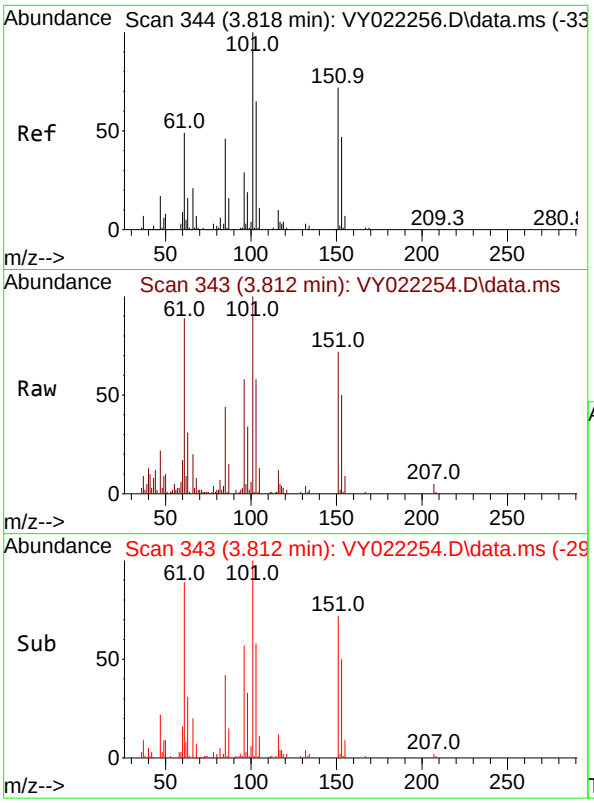



#8
Diethyl Ether
Concen: 10.730 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 74 Resp: 16945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 93.2 | 48.6 | 145.8 |

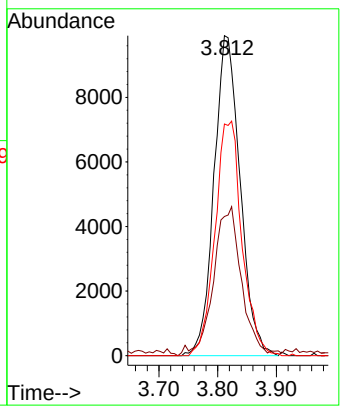





#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.708 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:101 Resp: 3059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.5 | 38.6 | 58.0 |
| 151 | 75.6 | 59.7 | 89.5 |




**Instrument :**
MSVOA_Y
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VSTDICC010

**Manual Integrations**
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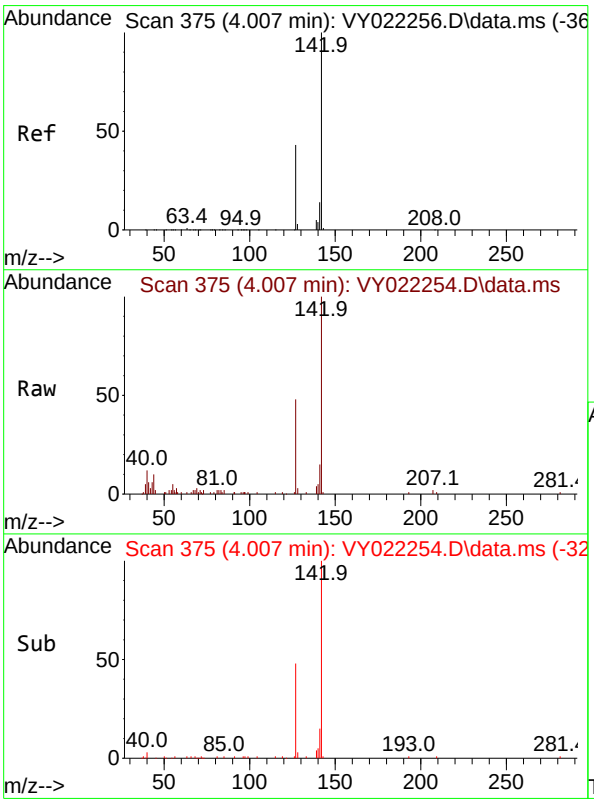
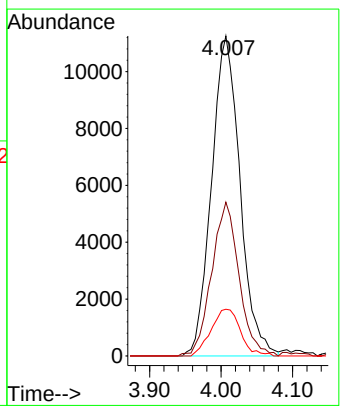
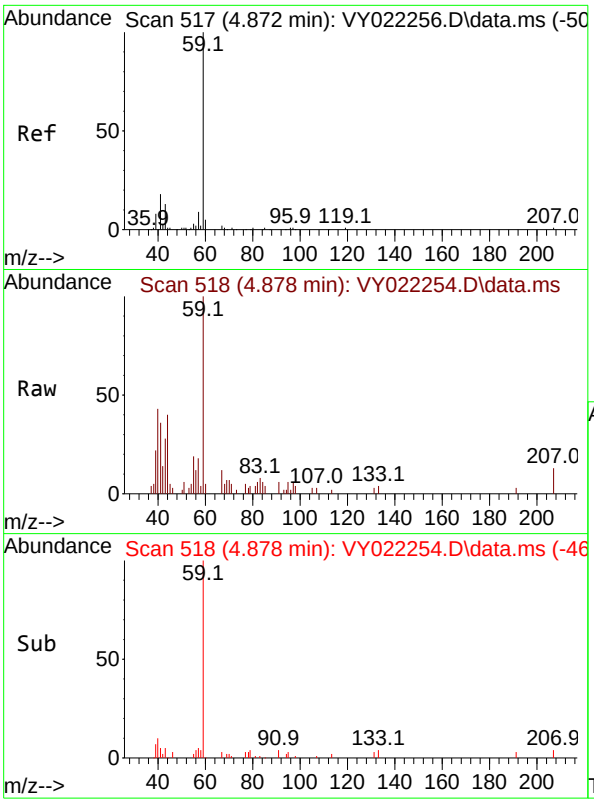



#10
Methyl Iodide
Concen: 9.402 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:142 Resp: 31088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.2 | 35.7 | 53.5 |
| 141 | 15.1 | 11.1 | 16.7 |

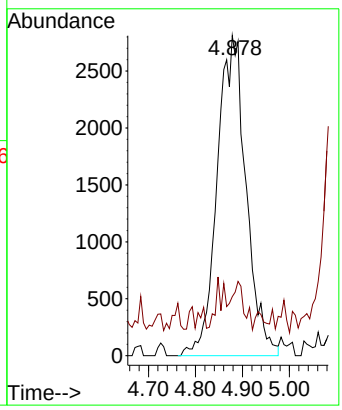





#11
Tert butyl alcohol
Concen: 54.446 ug/l
RT: 4.878 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 59 Resp: 1204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 5.7 | 0.0 | 0.0 |




**Instrument :**
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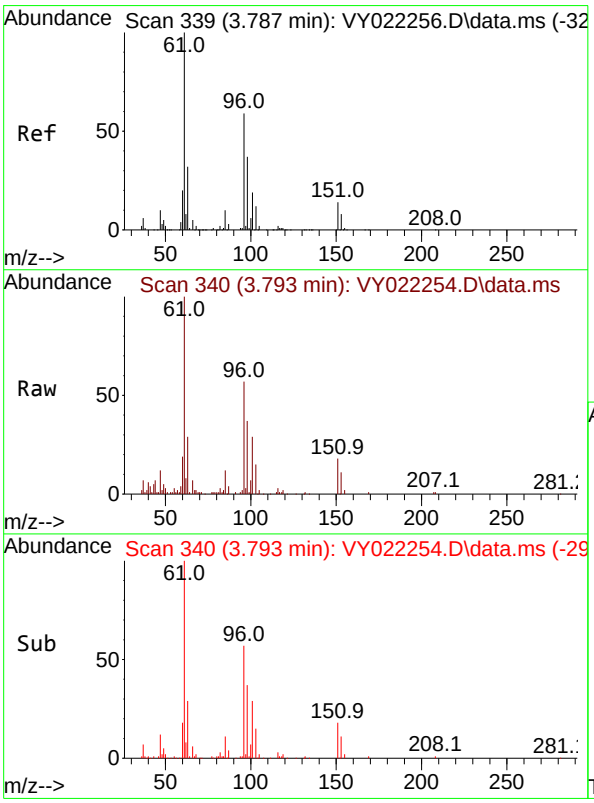
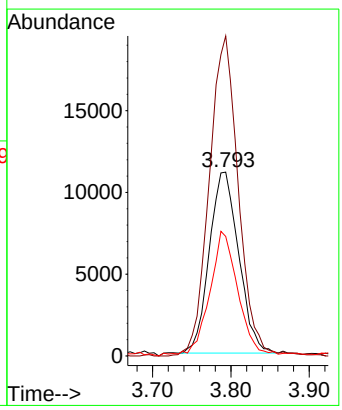
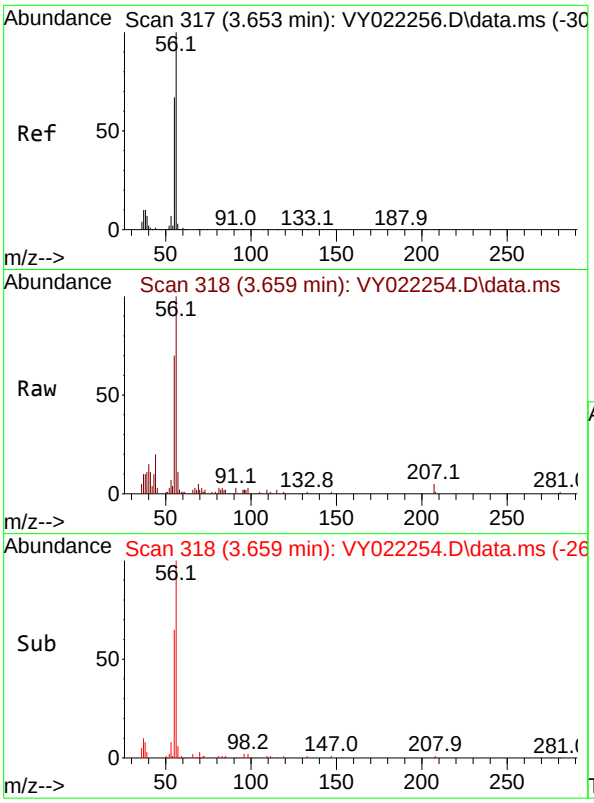



#12
1,1-Dichloroethene
Concen: 10.170 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 96 Resp: 28831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 176.2 | 134.9 | 202.3 |
| 98 | 65.1 | 49.9 | 74.9 |

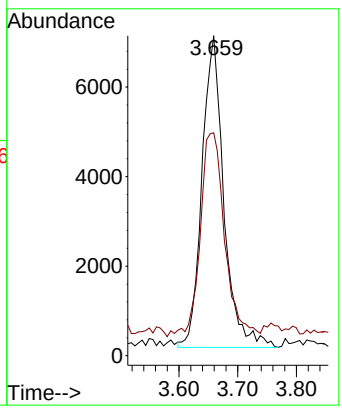





#13
Acrolein
Concen: 55.439 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 56 Resp: 1792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 73.0 | 55.6 | 83.4 |




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

**Manual Integrations**
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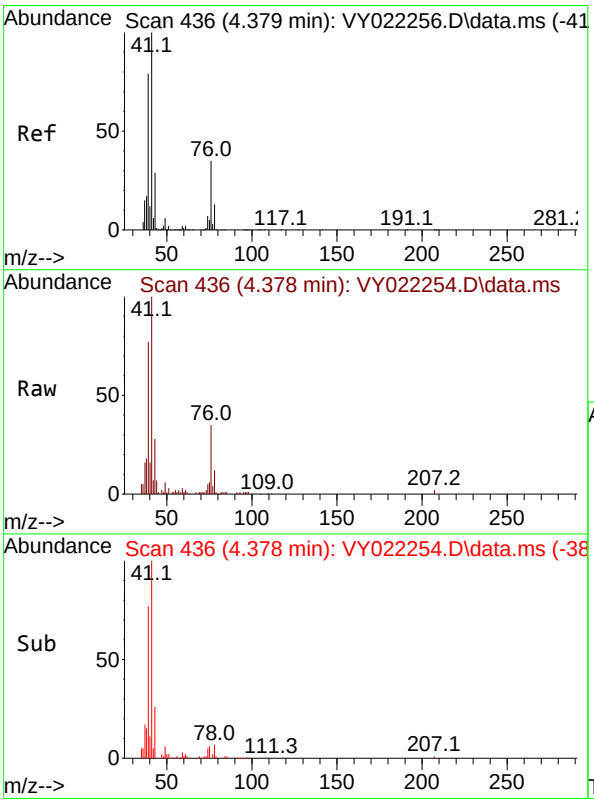
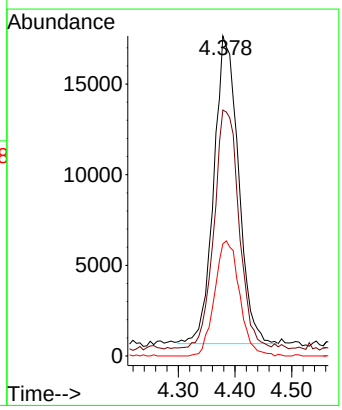
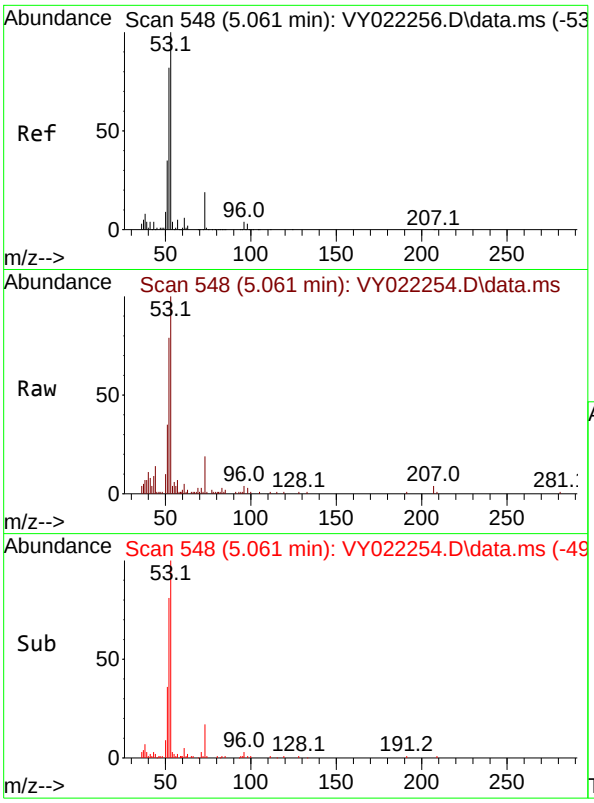



#14
Allyl chloride
Concen: 10.315 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 41 Resp: 51275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 79.2 | 63.4 | 95.0 |
| 76 | 37.8 | 29.5 | 44.3 |

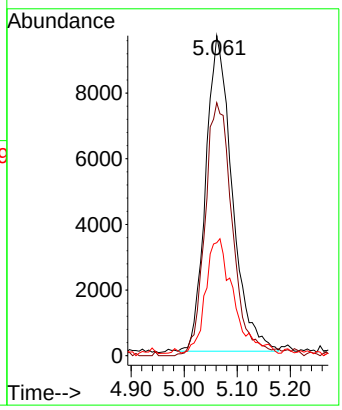





#15
Acrylonitrile
Concen: 51.139 ug/l
RT: 5.061 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 53 Resp: 3327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.7 | 66.1 | 99.1 |
| 51 | 38.2 | 30.0 | 45.0 |




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

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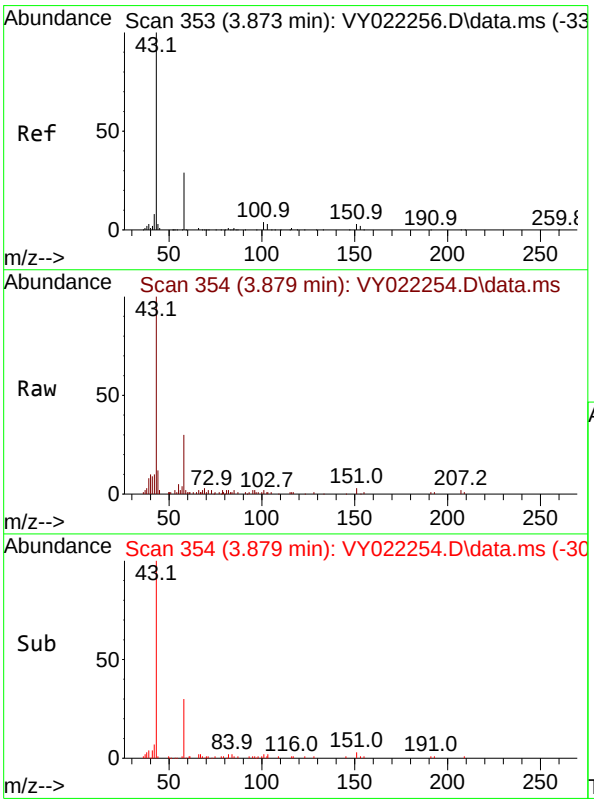
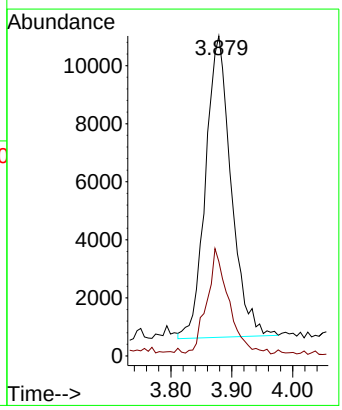
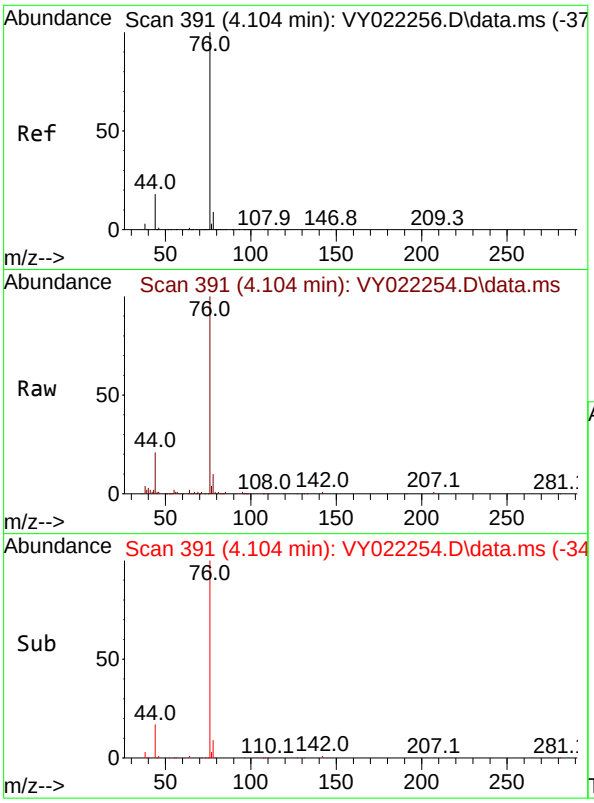



#16
Acetone
Concen: 55.657 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 30229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.5 | 23.6 | 35.4 |






#17
Carbon Disulfide
Concen: 10.448 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 76 Resp: 9659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.9 | 7.2 | 10.8 |

**Instrument :**
MSVOA_Y
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VSTDICC010

**Manual Integrations**
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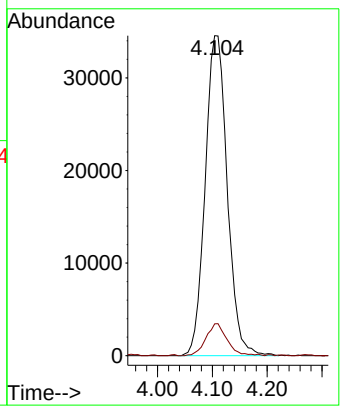
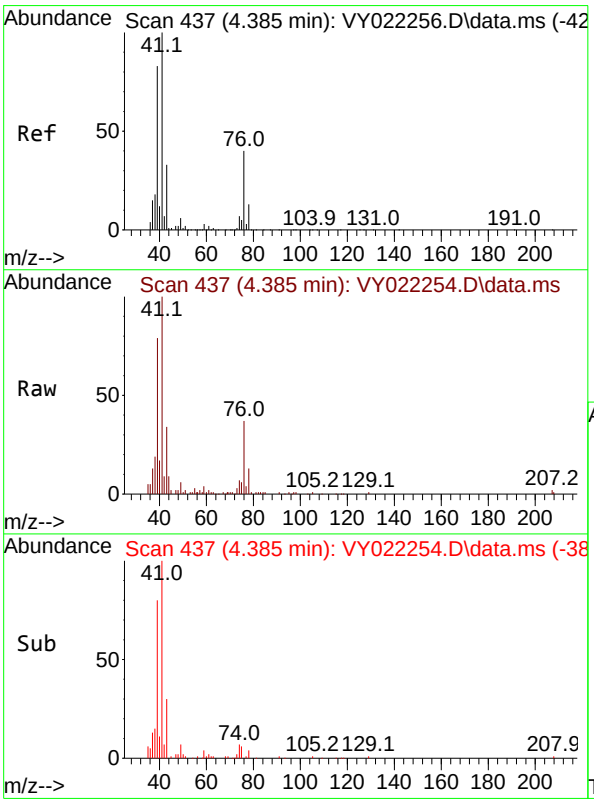
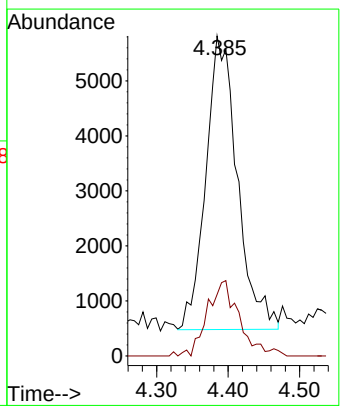


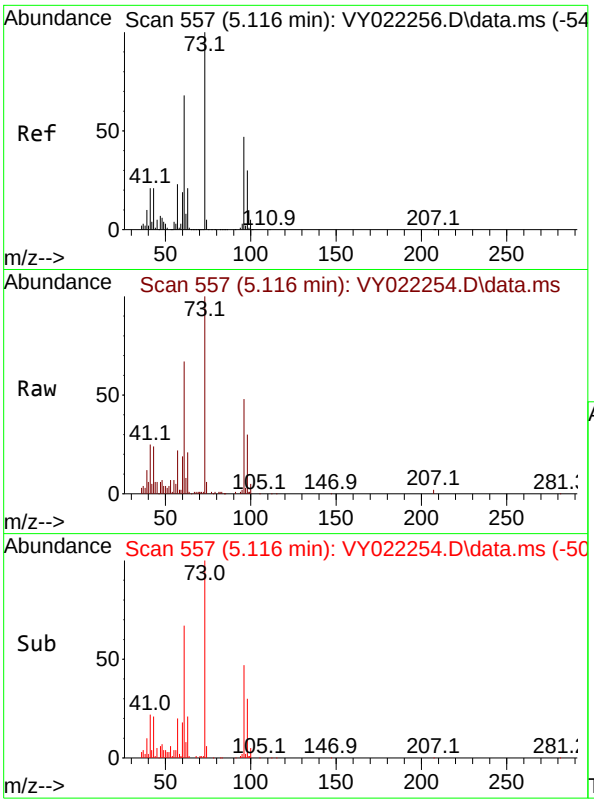




#18
Methyl Acetate
Concen: 9.886 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 16338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.6 | 18.2 | 27.4 |






#19
Methyl tert-butyl Ether
Concen: 10.326 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 73 Resp: 8071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.3 | 18.6 | 28.0 |

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

**Manual Integrations APPROVED**

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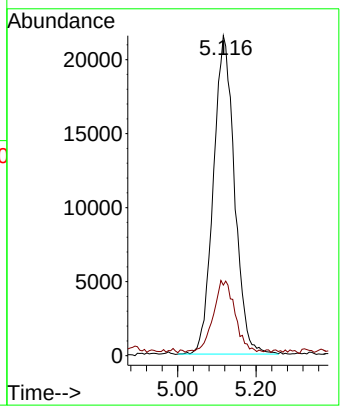
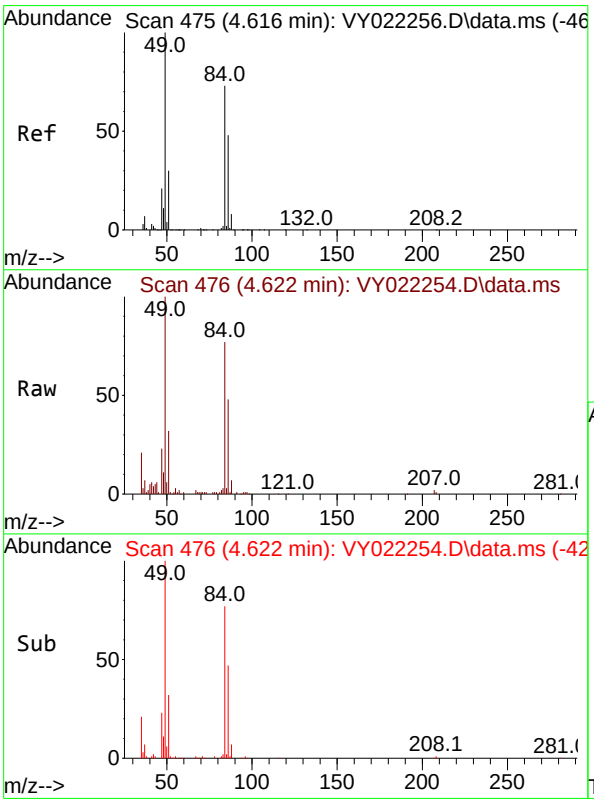
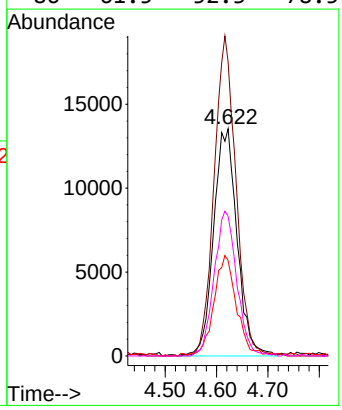


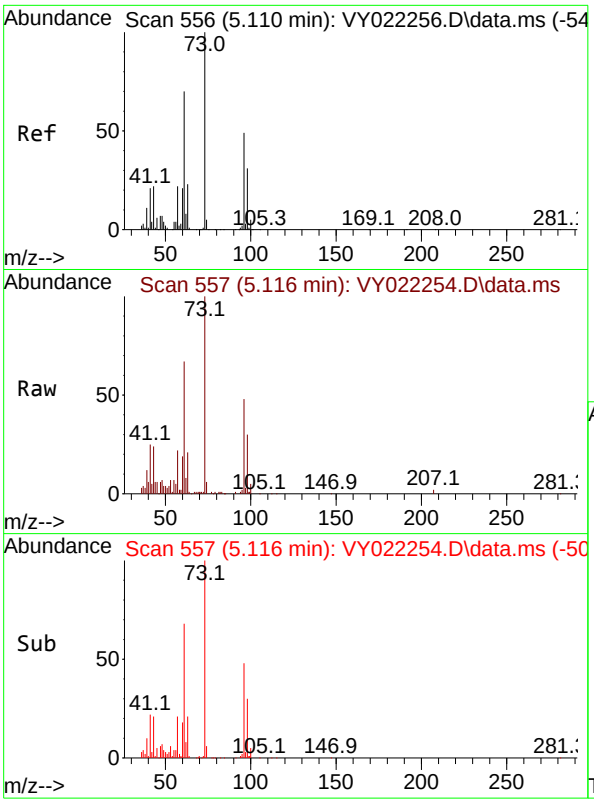




#20
Methylene Chloride
Concen: 12.250 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 84 Resp: 42991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 129.4 | 109.6 | 164.4 |
| 51 | 42.0 | 32.4 | 48.6 |
| 86 | 61.5 | 52.3 | 78.5 |

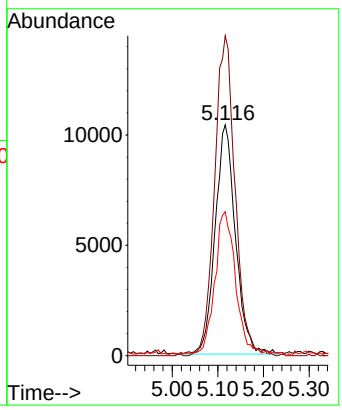





#21
trans-1,2-Dichloroethene
Concen: 10.309 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 96 Resp: 3225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.6 | 113.4 | 170.0 |
| 98 | 62.0 | 50.9 | 76.3 |




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

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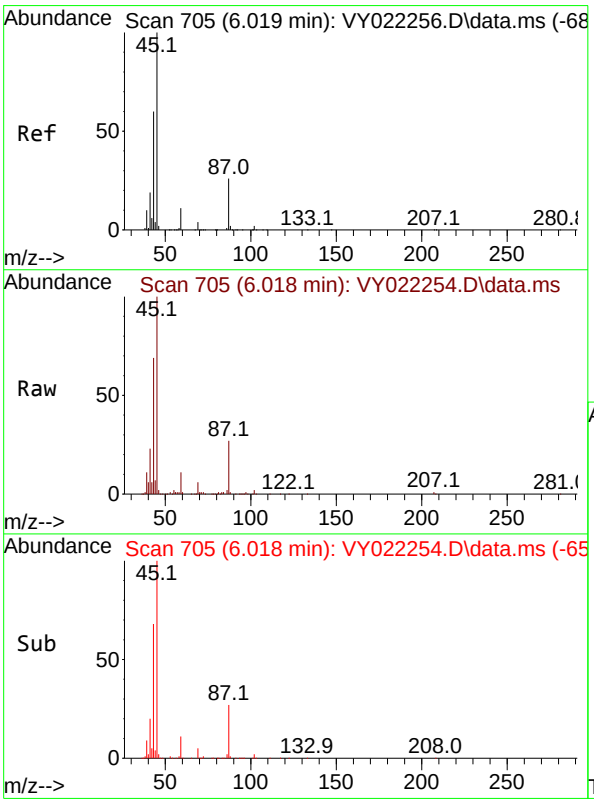
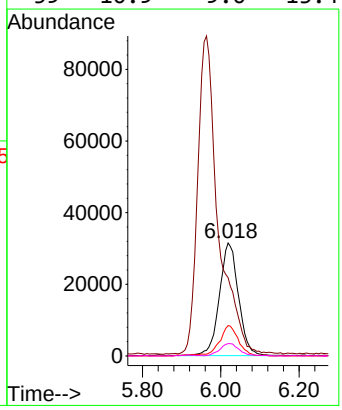
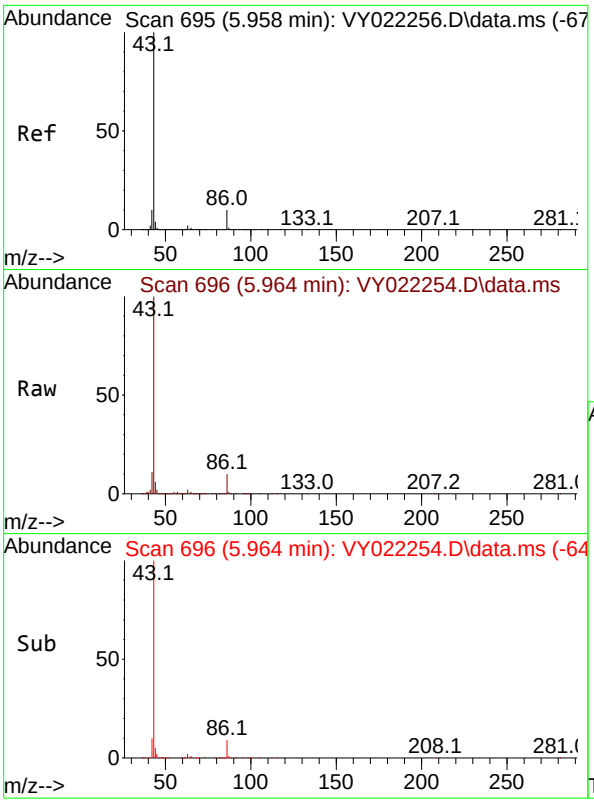



#22
Diisopropyl ether
Concen: 10.145 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 45 Resp: 106493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 67.7 | 48.2 | 72.2 |
| 87 | 26.8 | 21.4 | 32.0 |
| 59 | 10.9 | 9.0 | 13.4 |

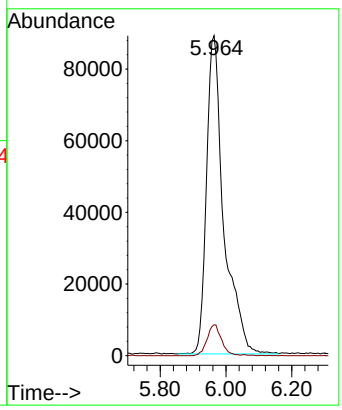





#23
Vinyl Acetate
Concen: 51.192 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 32465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.7 | 7.8 | 11.8 |

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**ClientSampleId :**
VSTDICC010

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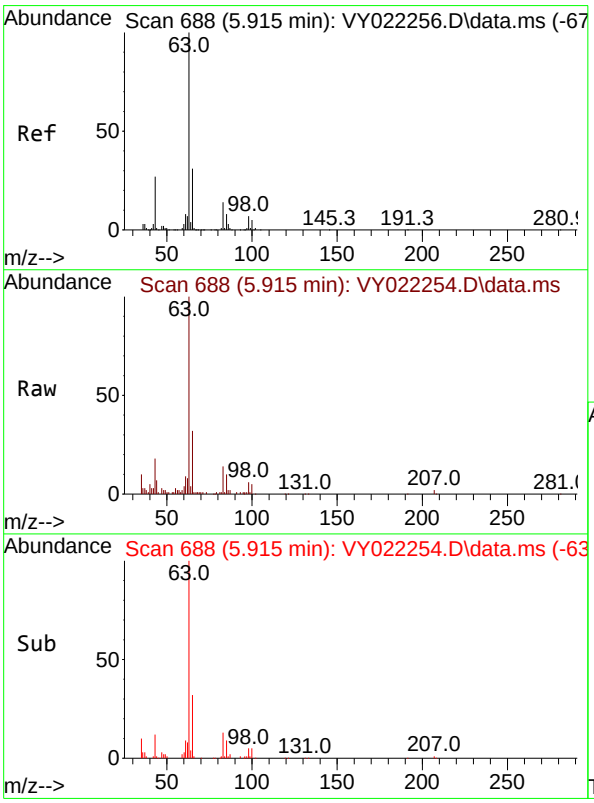
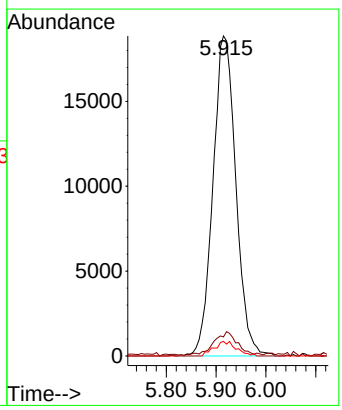
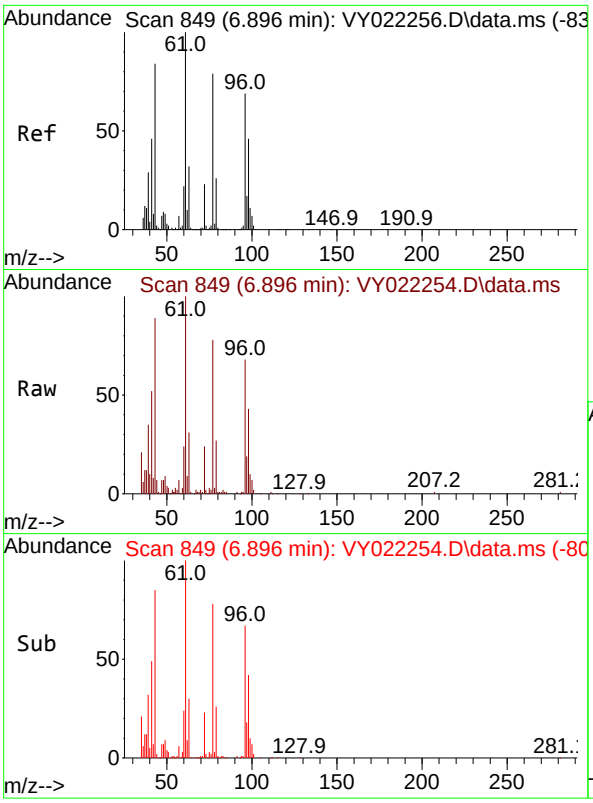



#24
1,1-Dichloroethane
Concen: 10.265 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 63 Resp: 60198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 5.6 | 3.5 | 10.5 |
| 100 | 4.6 | 2.4 | 7.2 |






#25
2-Butanone
Concen: 52.859 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

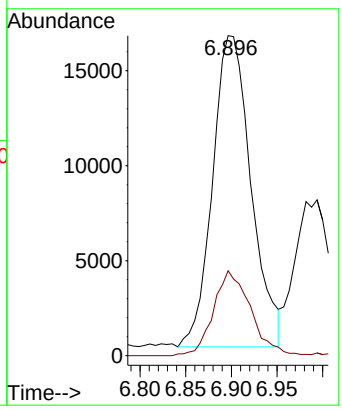
Tgt Ion: 43 Resp: 4802

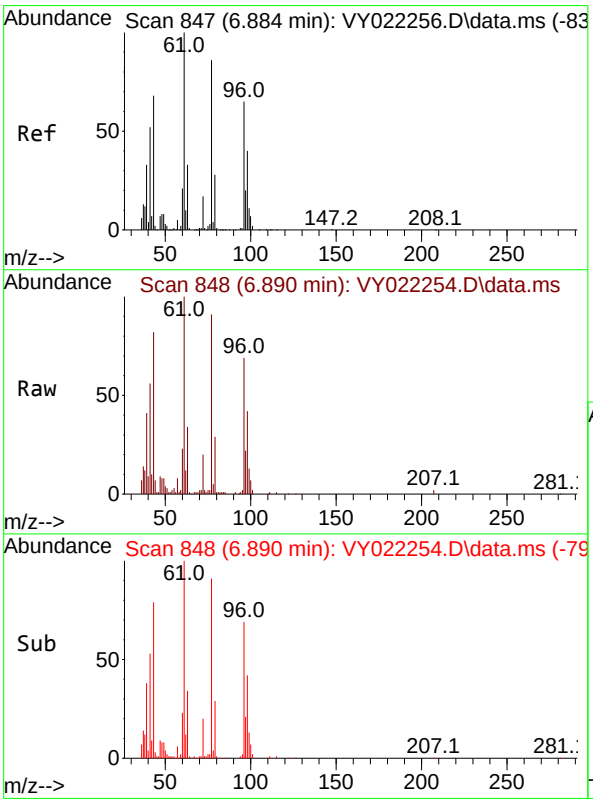
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.7 | 22.1 | 33.1 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

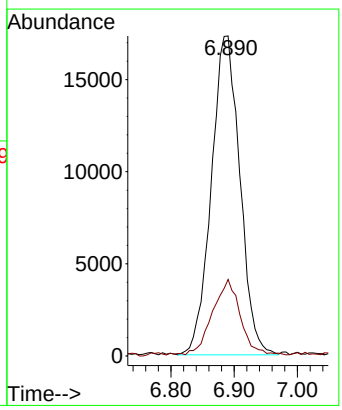


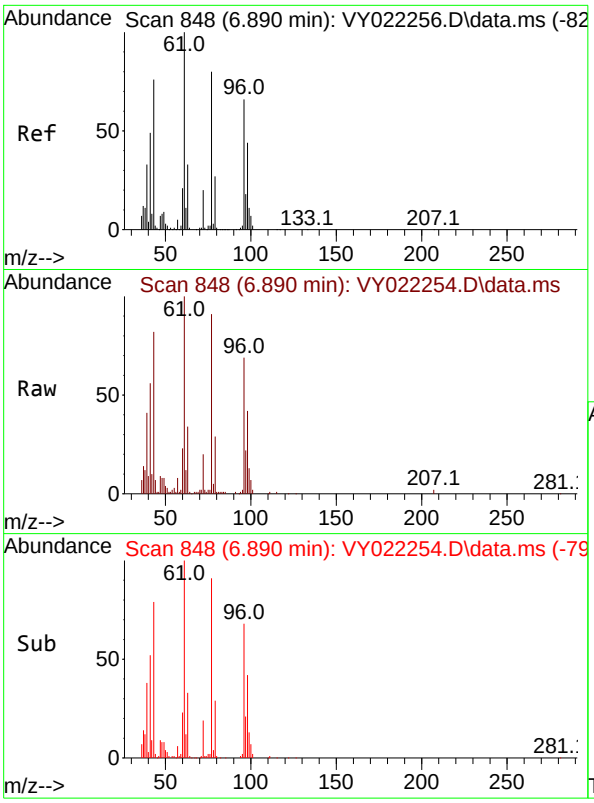




#26
2,2-Dichloropropane
Concen: 10.403 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 77 Resp: 54264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.9 | 11.2 | 33.5 |

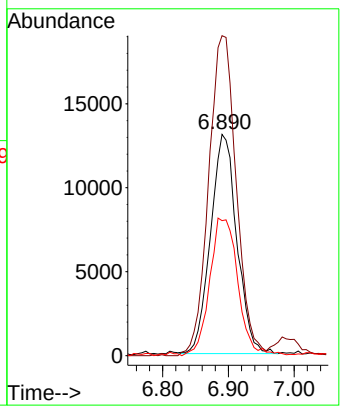





#27
cis-1,2-Dichloroethene
Concen: 10.081 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 96 Resp: 3640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 152.8 | 0.0 | 302.6 |
| 98 | 67.2 | 0.0 | 128.8 |




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

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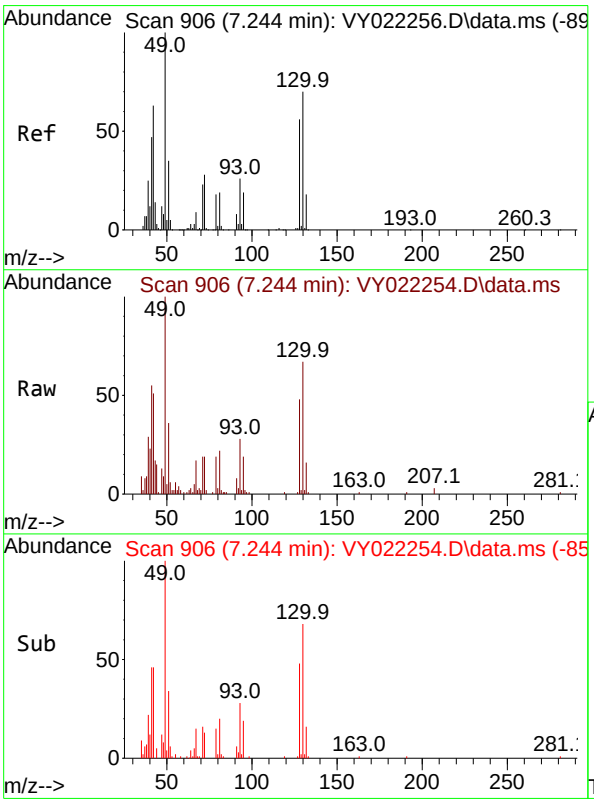
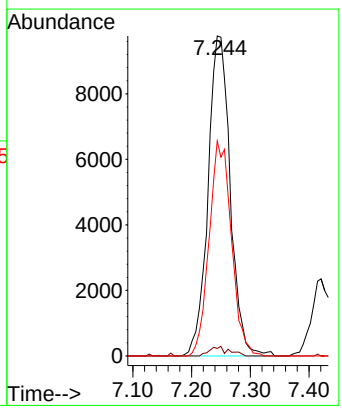
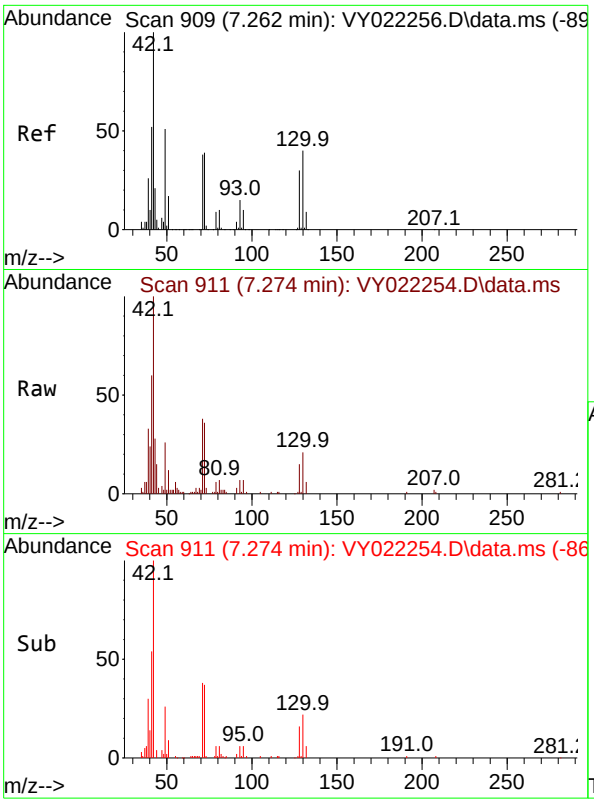



#28
Bromochloromethane
Concen: 10.259 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 49 Resp: 25664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.6 | 0.0 | 3.6 |
| 130 | 67.2 | 54.7 | 82.1 |

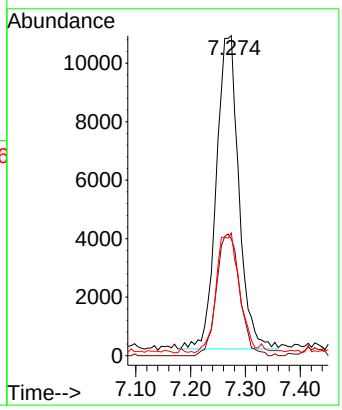





#29
Tetrahydrofuran
Concen: 52.498 ug/l
RT: 7.274 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 42 Resp: 3068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.9 | 33.8 | 50.6 |
| 71 | 39.0 | 31.5 | 47.3 |




**Instrument :**
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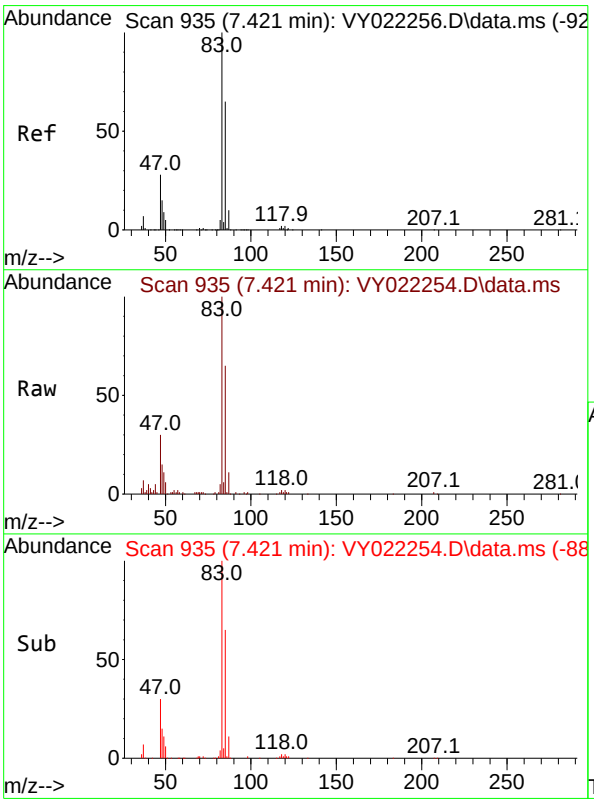
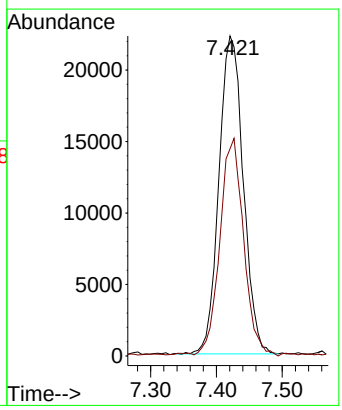
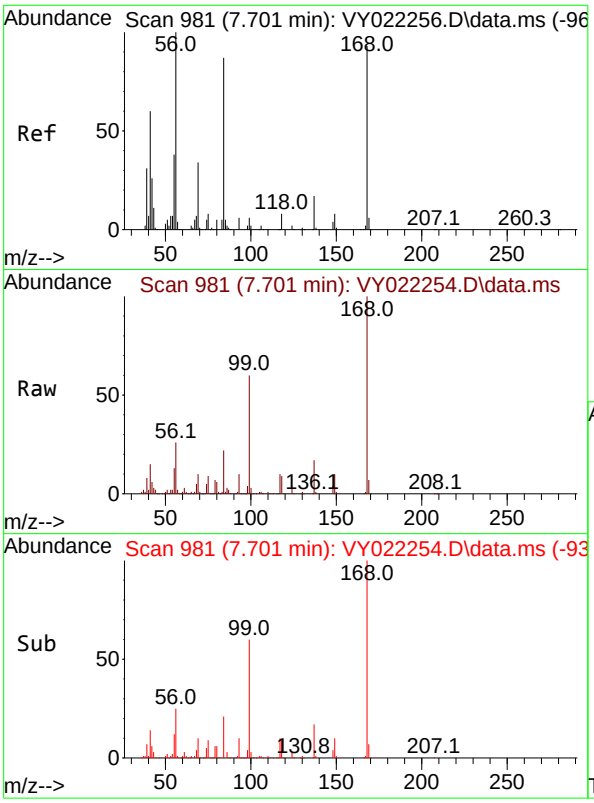



#30
Chloroform
Concen: 10.163 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 83 Resp: 57172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.2 | 51.8 | 77.8 |

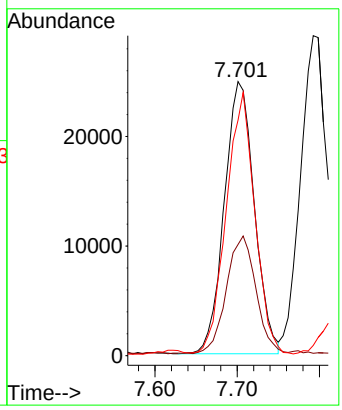





#31
Cyclohexane
Concen: 10.778 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 56 Resp: 6315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 39.9 | 27.4 | 41.2 |
| 84 | 84.7 | 70.0 | 105.0 |

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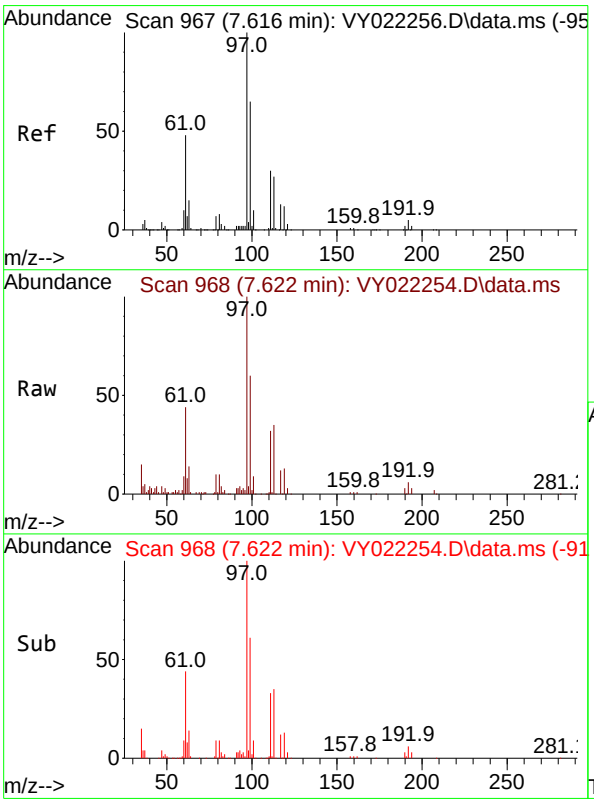
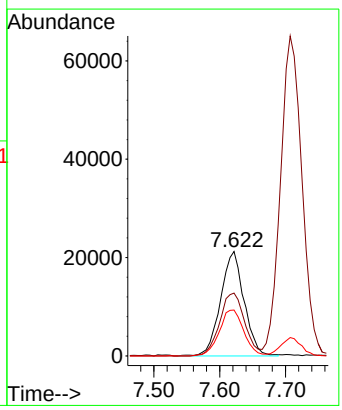
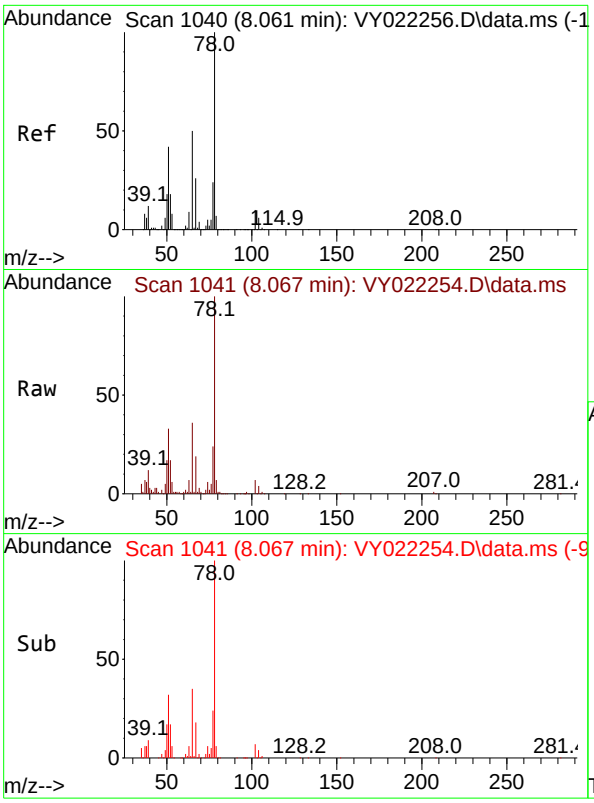



#32
1,1,1-Trichloroethane
Concen: 10.242 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 97 Resp: 52856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.4 | 77.0 |
| 61 | 46.0 | 38.1 | 57.1 |

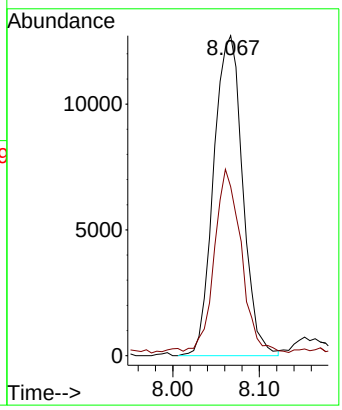





#33
1,2-Dichloroethane-d4
Concen: 10.222 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 65 Resp: 2960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.9 | 0.0 | 104.6 |

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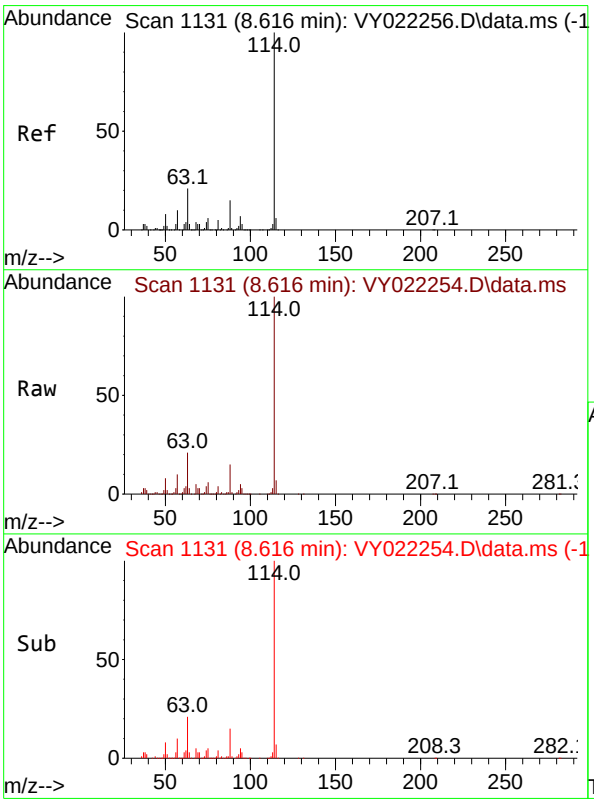
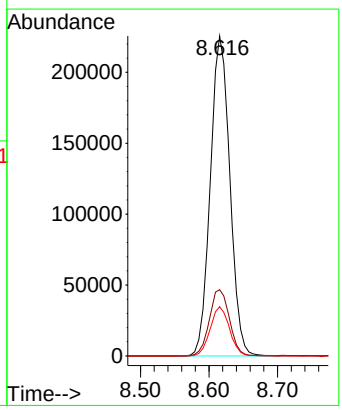
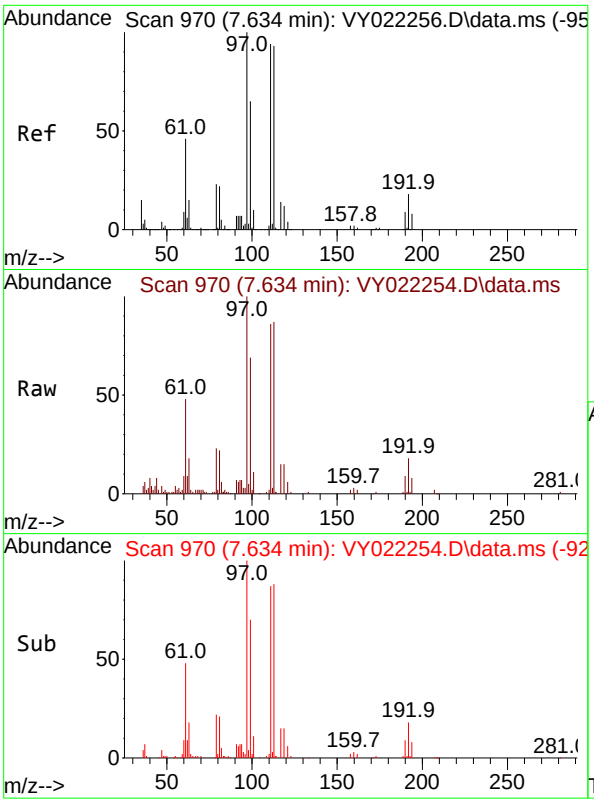



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:114 Resp: 446109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.7 | 0.0 | 41.0 |
| 88 | 15.4 | 0.0 | 29.4 |

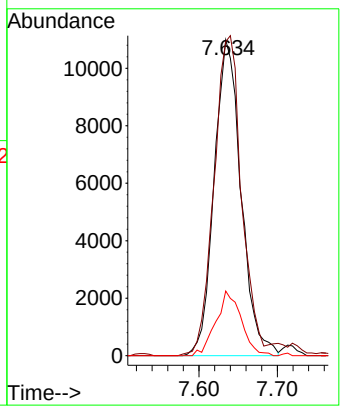





#35
Dibromofluoromethane
Concen: 9.856 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:113 Resp: 2624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.6 | 82.6 | 123.8 |
| 192 | 19.3 | 15.2 | 22.8 |

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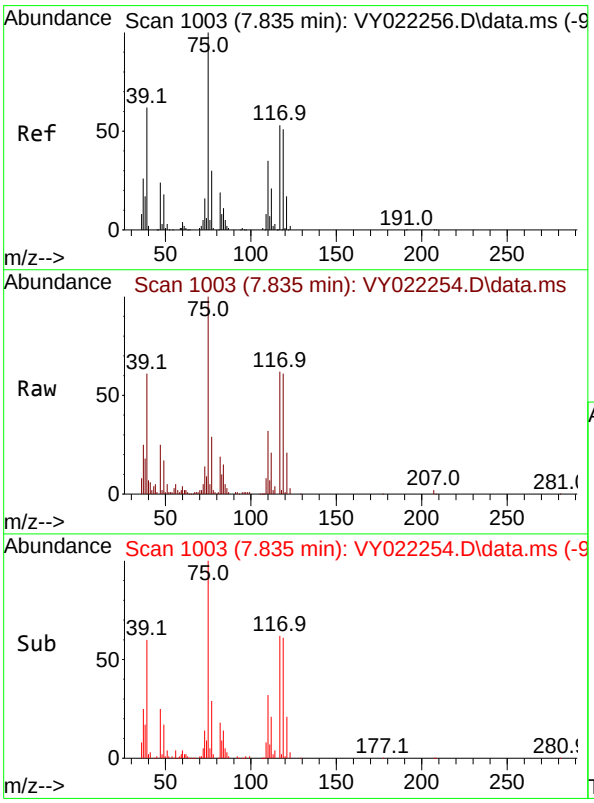
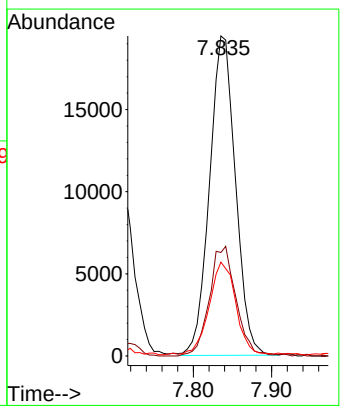
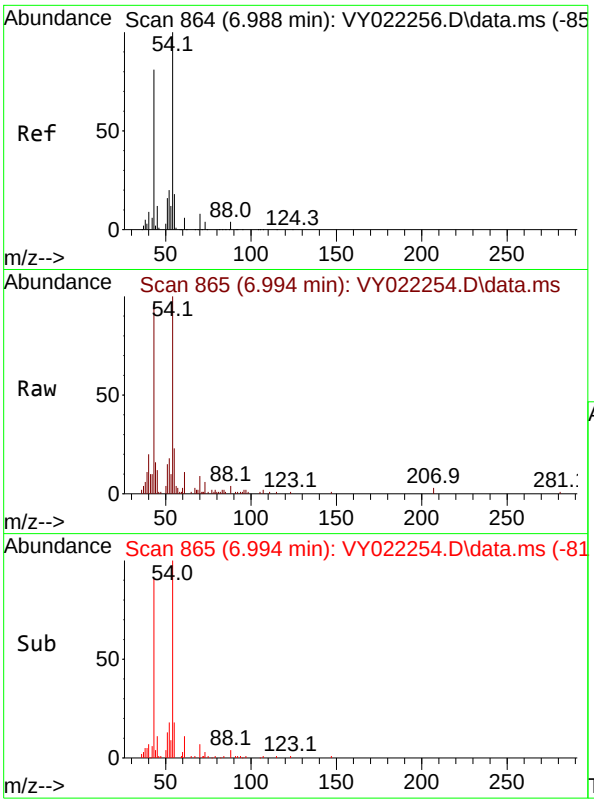



#36
1,1-Dichloropropene
Concen: 10.219 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 75 Resp: 44817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.1 | 16.6 | 49.8 |
| 77 | 29.8 | 24.6 | 37.0 |

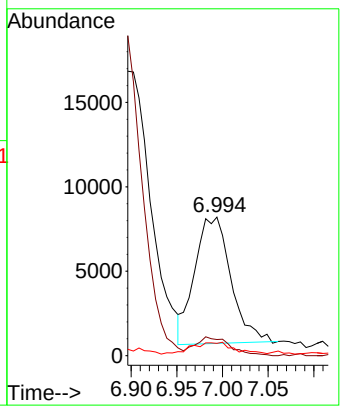





#37
Ethyl Acetate
Concen: 9.774 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 2062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.2 | 10.2 | 15.2 |
| 70 | 10.6 | 7.6 | 11.4 |

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**ClientSampleId :**
VSTDICC010

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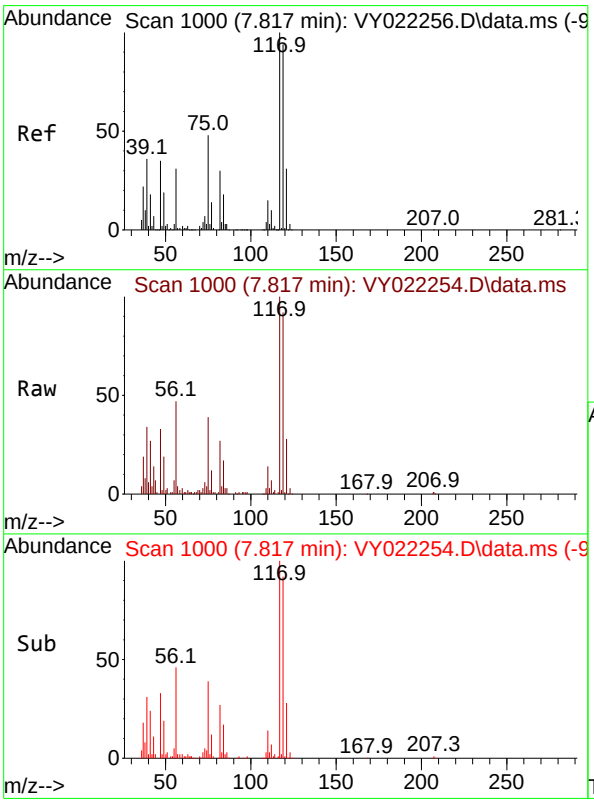
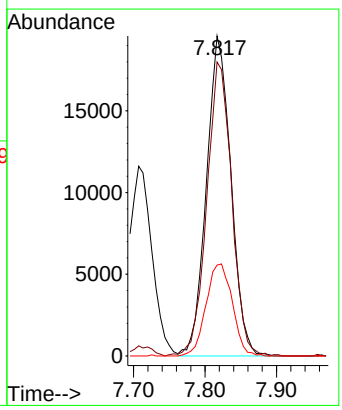
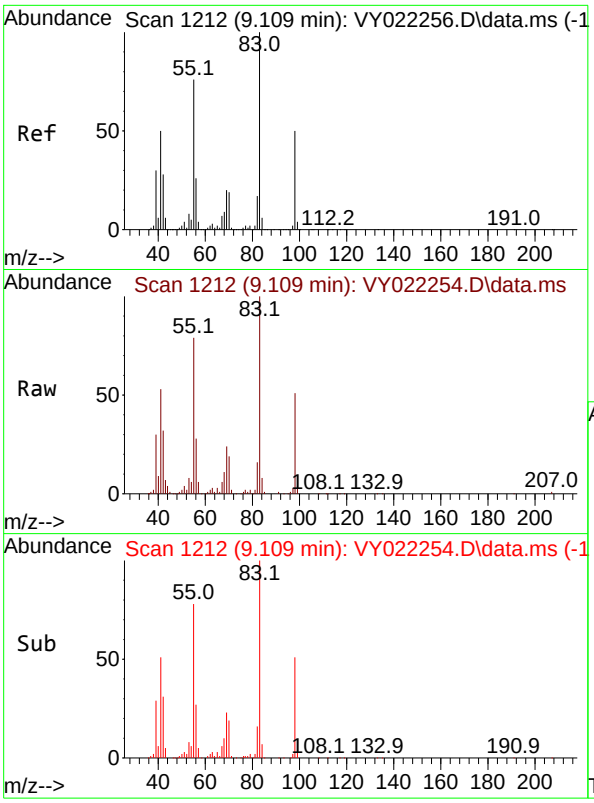



#38
Carbon Tetrachloride
Concen: 10.303 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:117 Resp: 46772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.4 | 75.3 | 112.9 |
| 121 | 28.4 | 24.7 | 37.1 |

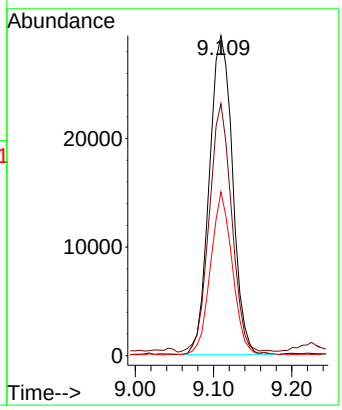





#39
Methylcyclohexane
Concen: 10.266 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 83 Resp: 6048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.9 | 60.6 | 90.8 |
| 98 | 51.1 | 40.0 | 60.0 |

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VSTDICC010

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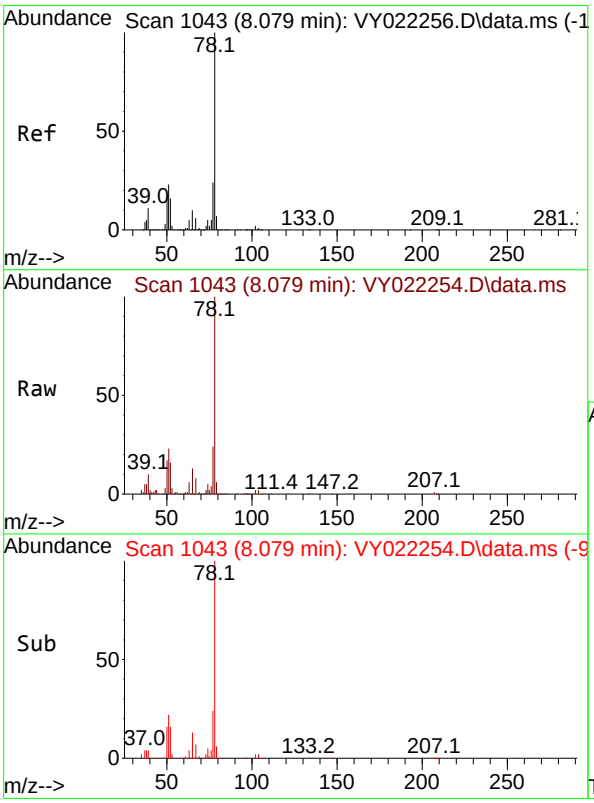
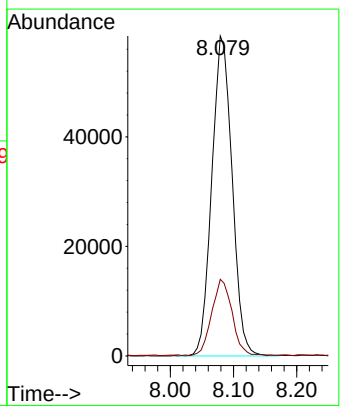
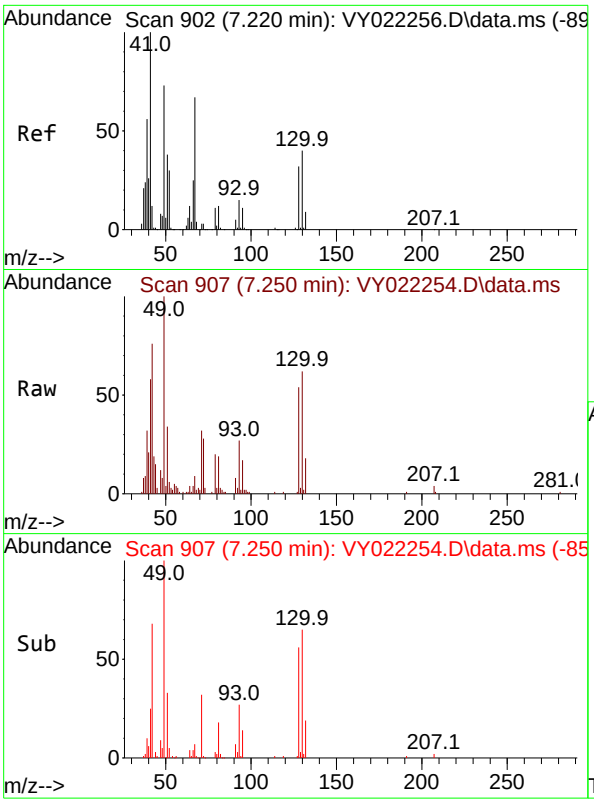



#40
Benzene
Concen: 10.032 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 78 Resp: 130423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 18.9 | 28.3 |

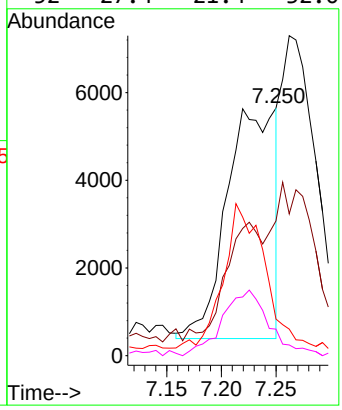





#41
Methacrylonitrile
Concen: 10.510 ug/l m
RT: 7.250 min Scan# 9(
Delta R.T. 0.030 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 41 Resp: 1622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 38.5 | 39.1 | 58.7 |
| 67 | 54.4 | 47.1 | 70.7 |
| 52 | 27.4 | 21.4 | 32.0 |




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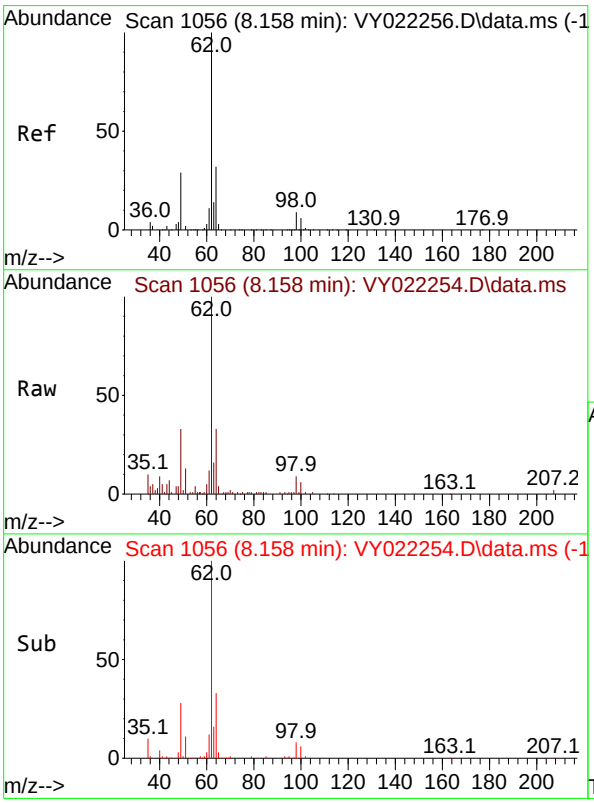
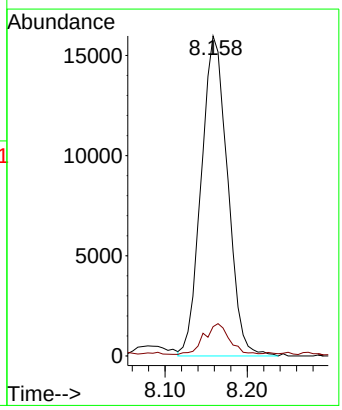
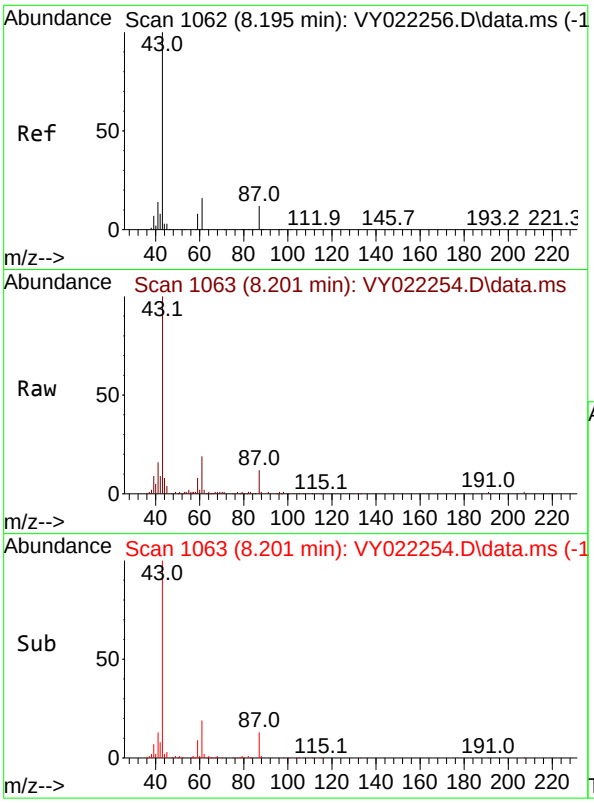



#42
1,2-Dichloroethane
Concen: 10.115 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 62 Resp: 35565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.2 | 0.0 | 18.4 |

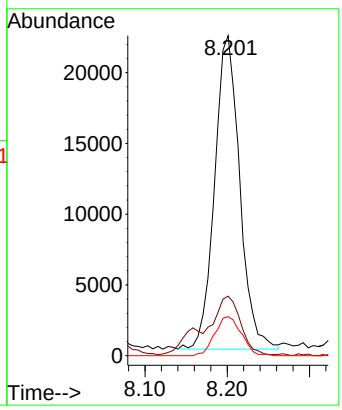





#43
Isopropyl Acetate
Concen: 10.217 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 4702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 19.6 | 15.1 | 22.7 |
| 87 | 13.1 | 9.7 | 14.5 |




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

**Manual Integrations**
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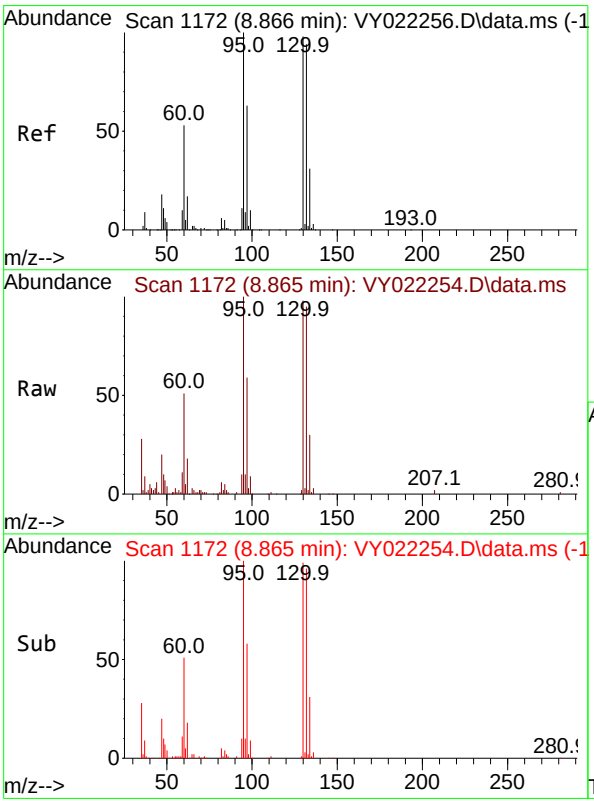
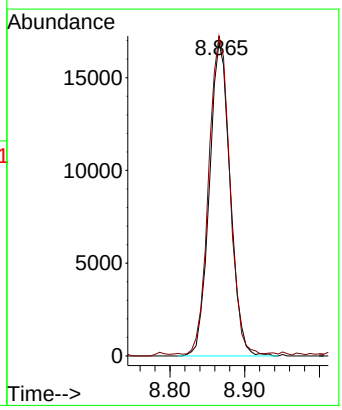
Supervised By :Semsettin Yesilyurt 05/16/2025

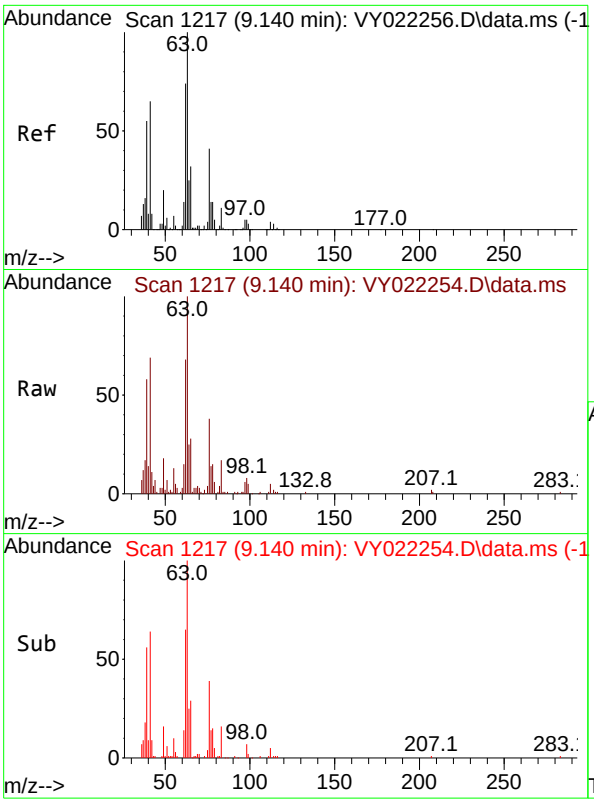



#44
Trichloroethene
Concen: 10.101 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:130 Resp: 32655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.4 | 0.0 | 204.8 |

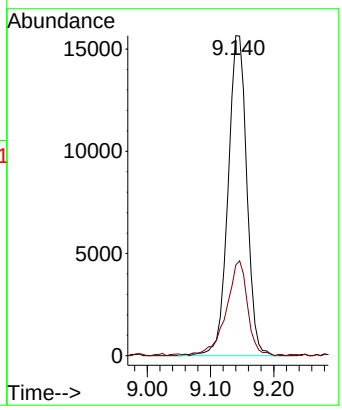





#45
1,2-Dichloropropane
Concen: 10.264 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 63 Resp: 3217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 28.0 | 25.7 | 38.5 |




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

**Manual Integrations**
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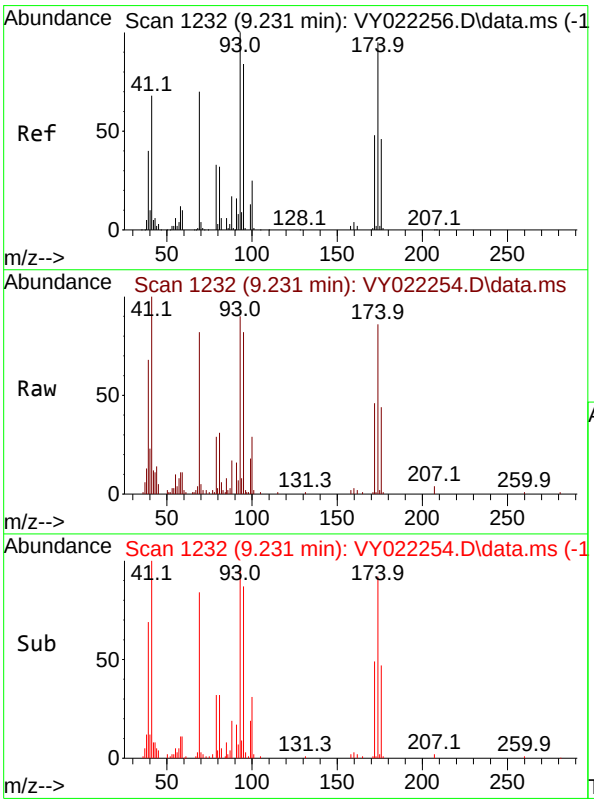
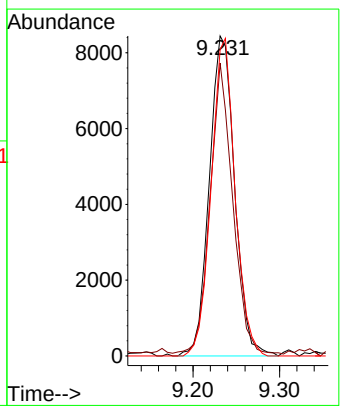
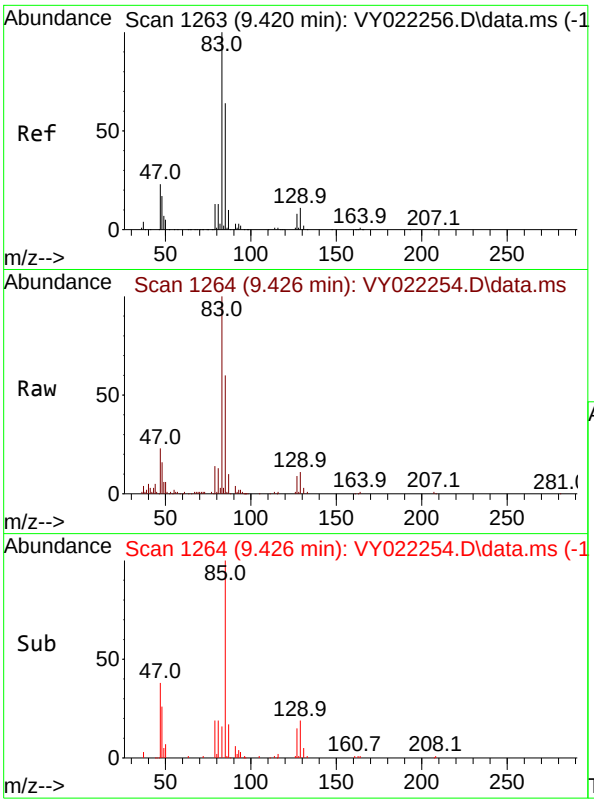



#46
Dibromomethane
Concen: 10.135 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 93 Resp: 17134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.1 | 65.2 | 97.8 |
| 174 | 93.7 | 74.3 | 111.5 |

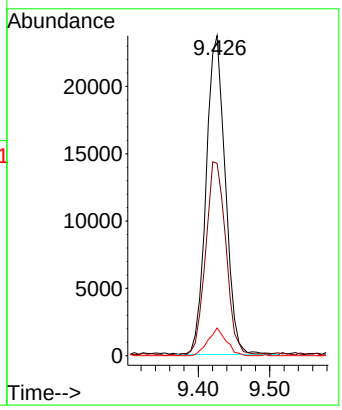





#47
Bromodichloromethane
Concen: 10.042 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 83 Resp: 4404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.3 | 51.1 | 76.7 |
| 127 | 8.7 | 6.6 | 10.0 |




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

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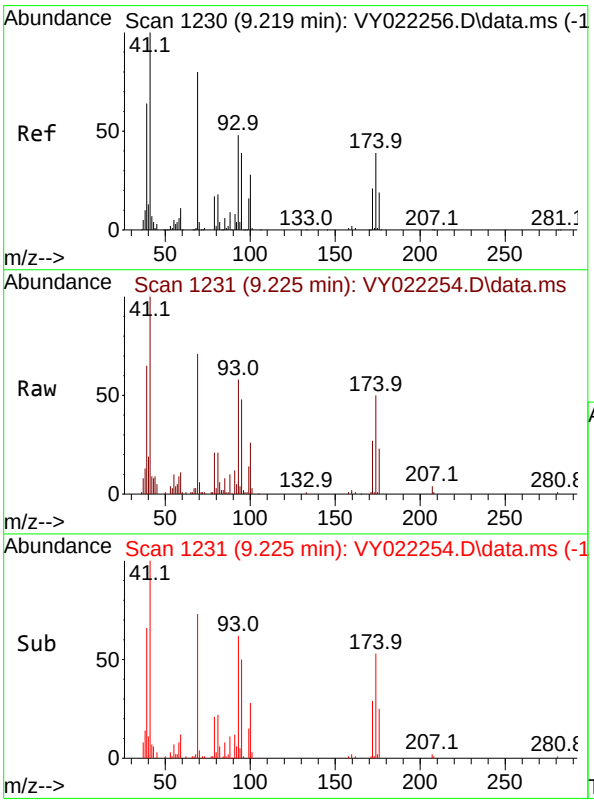
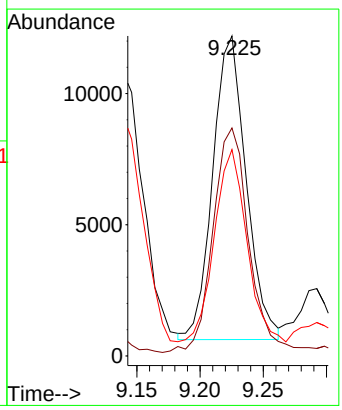
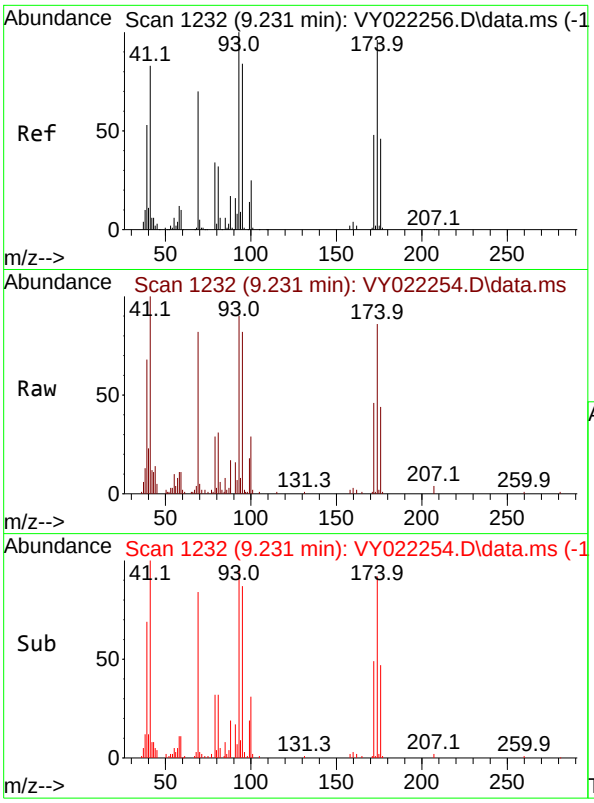



#48
Methyl methacrylate
Concen: 9.851 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 41 Resp: 21202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 80.5 | 63.5 | 95.3 |
| 39 | 62.0 | 50.8 | 76.2 |






#49
1,4-Dioxane
Concen: 205.769 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 88 Resp: 393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 28.5 | 42.7# |
| 58 | 84.5 | 61.4 | 92.2 |

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

**Manual Integrations APPROVED**

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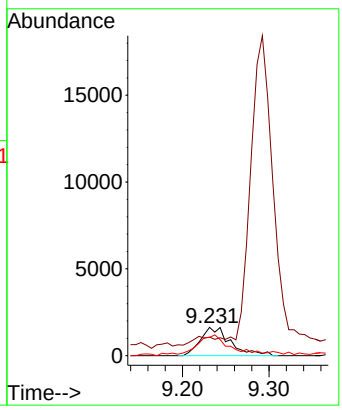
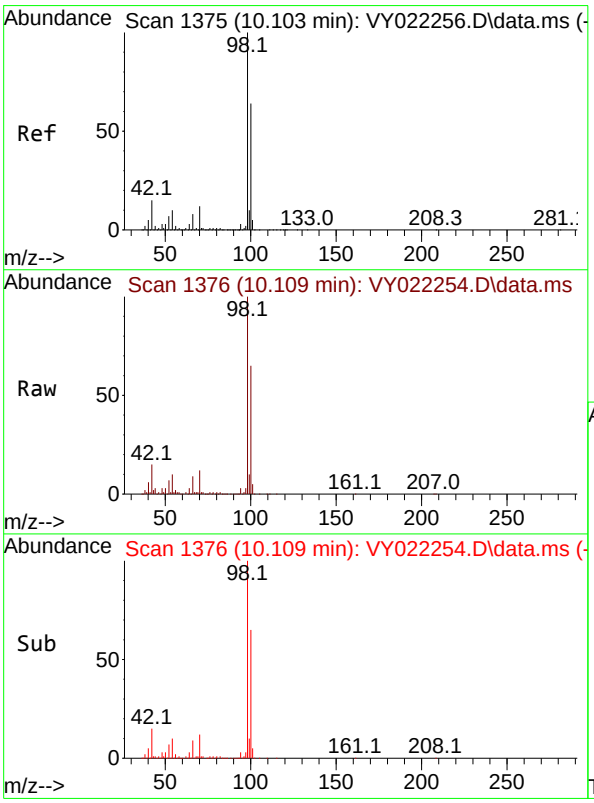
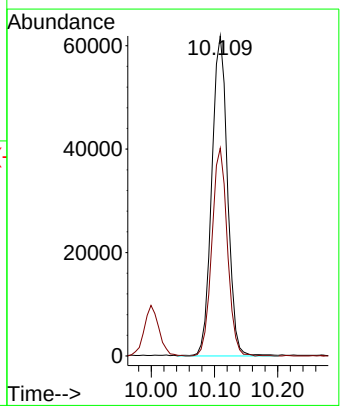


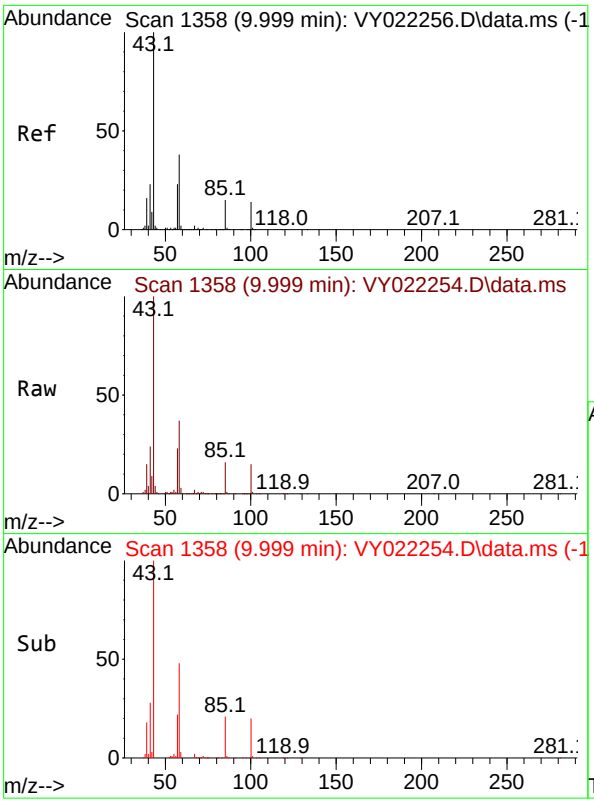




#50
Toluene-d8
Concen: 9.816 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 98 Resp: 107048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.7 | 51.8 | 77.8 |

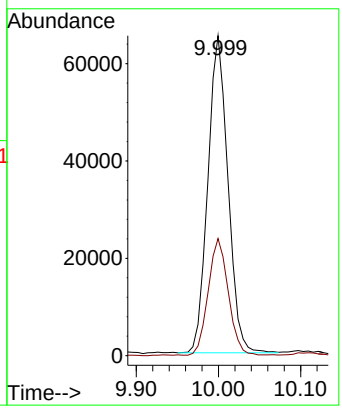





#51
4-Methyl-2-Pentanone
Concen: 48.889 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 11039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.7 | 29.4 | 44.2 |




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

**Manual Integrations**
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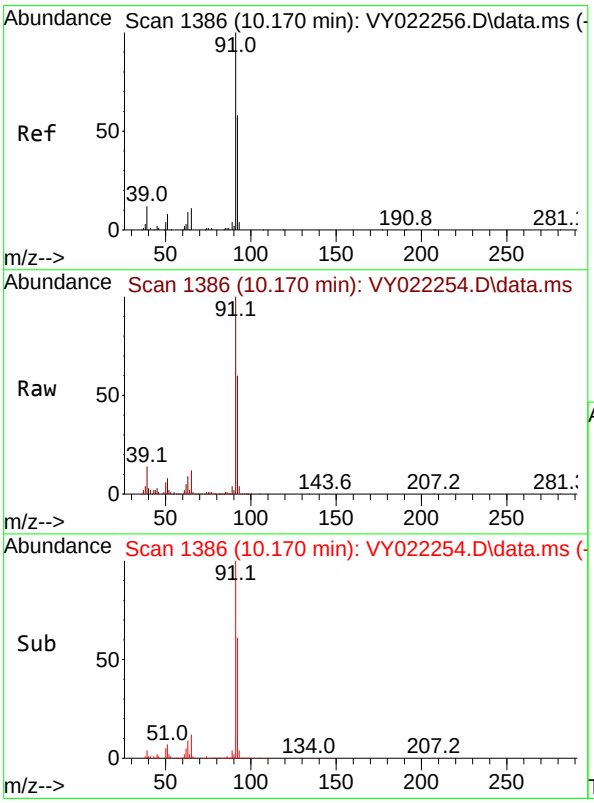
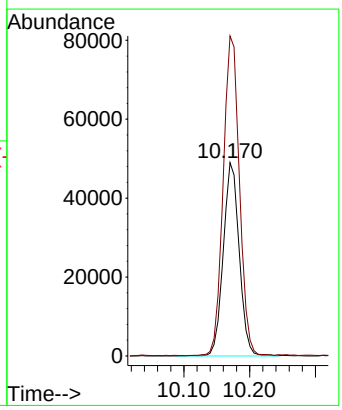
Supervised By :Semsettin Yesilyurt 05/16/2025

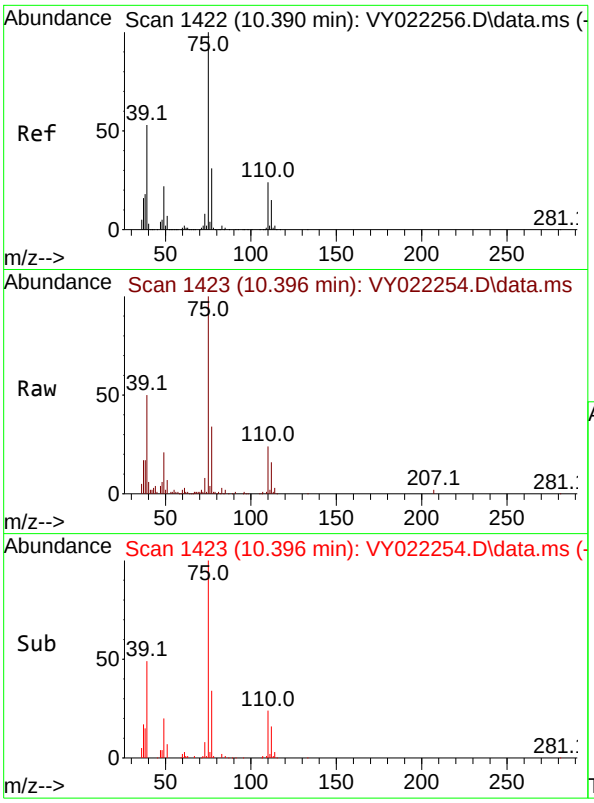



#52
Toluene
Concen: 10.015 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 92 Resp: 82453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 168.8 | 139.1 | 208.7 |

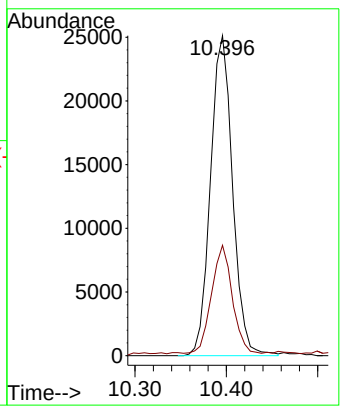





#53
t-1,3-Dichloropropene
Concen: 9.849 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 75 Resp: 4215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.5 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
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VSTDICC010

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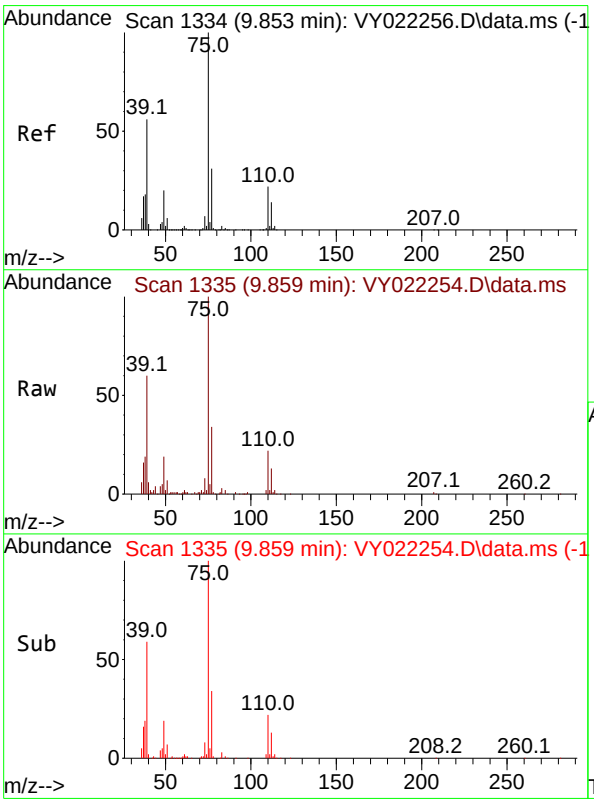
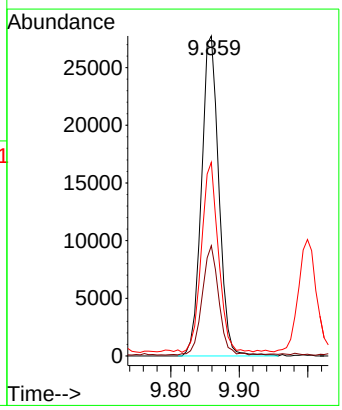
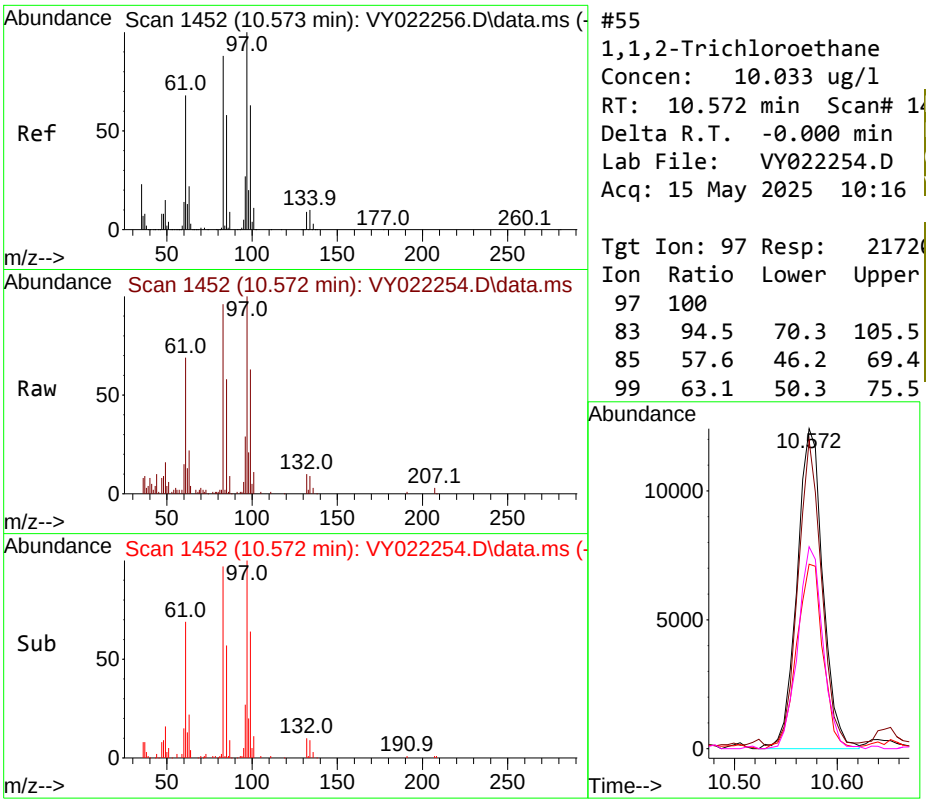



#54
cis-1,3-Dichloropropene
Concen: 9.976 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 75 Resp: 48923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 34.1 | 25.1 | 37.7 |
| 39 | 58.7 | 44.5 | 66.7 |






#55
1,1,2-Trichloroethane
Concen: 10.033 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 97 Resp: 2172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 94.5 | 70.3 | 105.5 |
| 85 | 57.6 | 46.2 | 69.4 |
| 99 | 63.1 | 50.3 | 75.5 |

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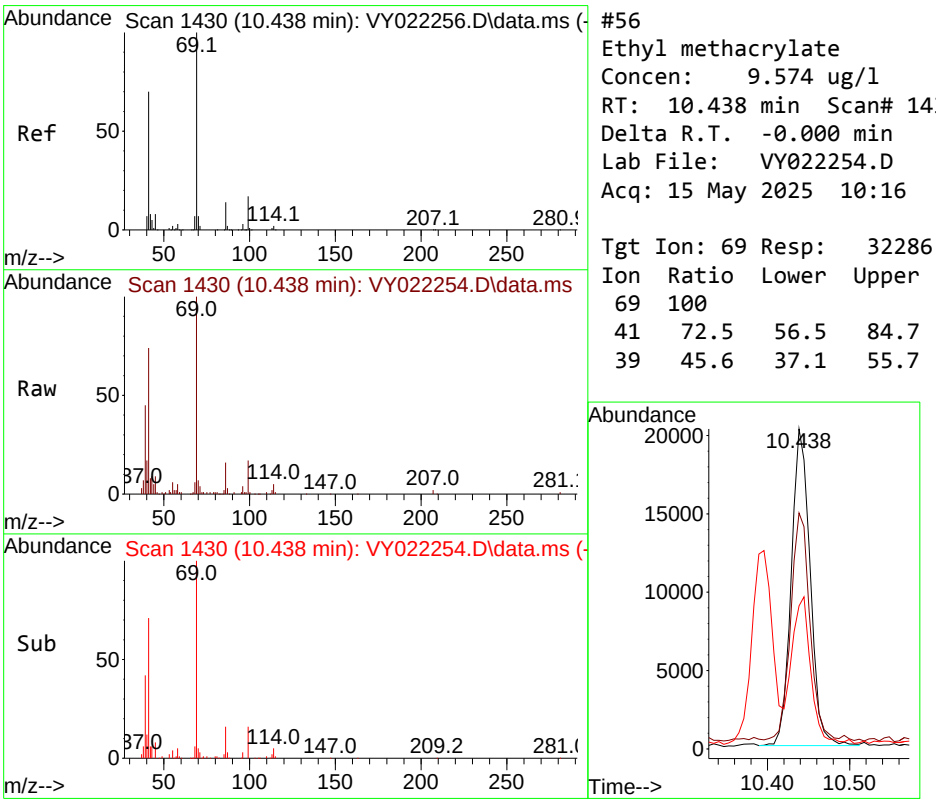
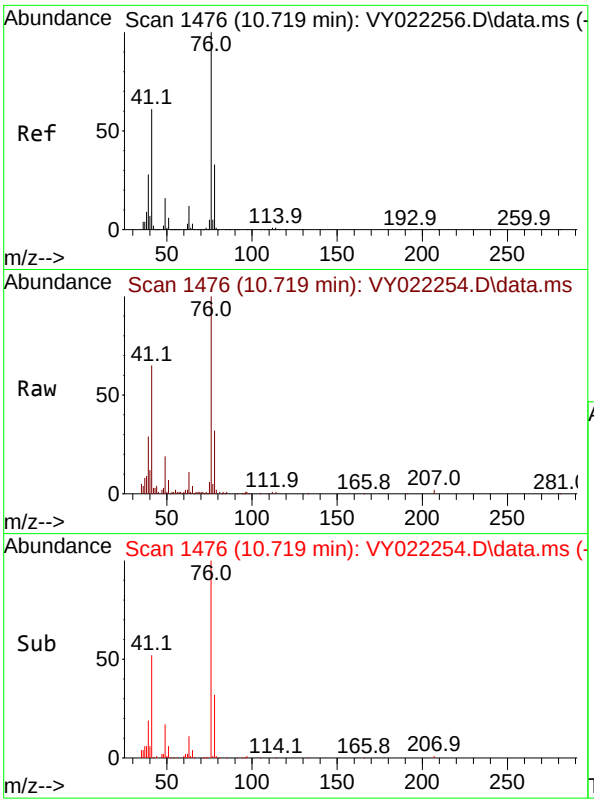



#56
Ethyl methacrylate
Concen: 9.574 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 69 Resp: 32286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 72.5 | 56.5 | 84.7 |
| 39 | 45.6 | 37.1 | 55.7 |




#57
1,3-Dichloropropane
Concen: 10.115 ug/l
RT: 10.719 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 76 Resp: 3890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.3 | 25.8 | 38.8 |

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

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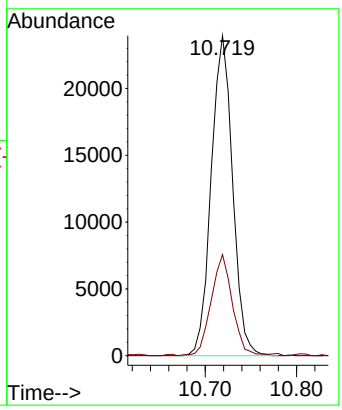
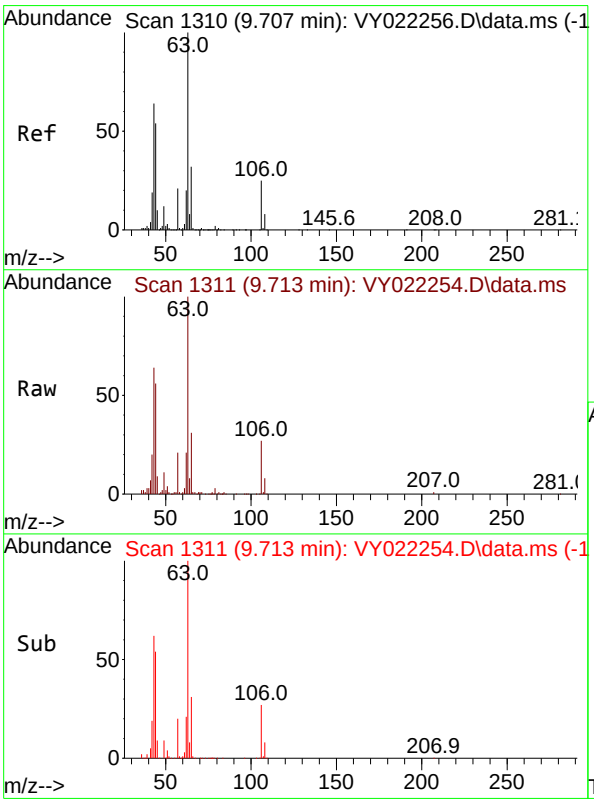
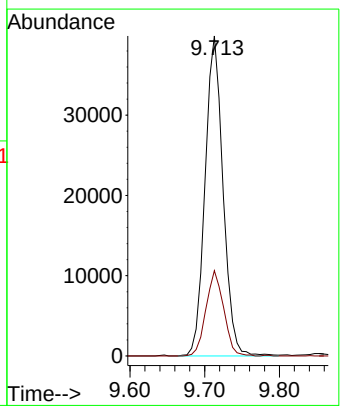


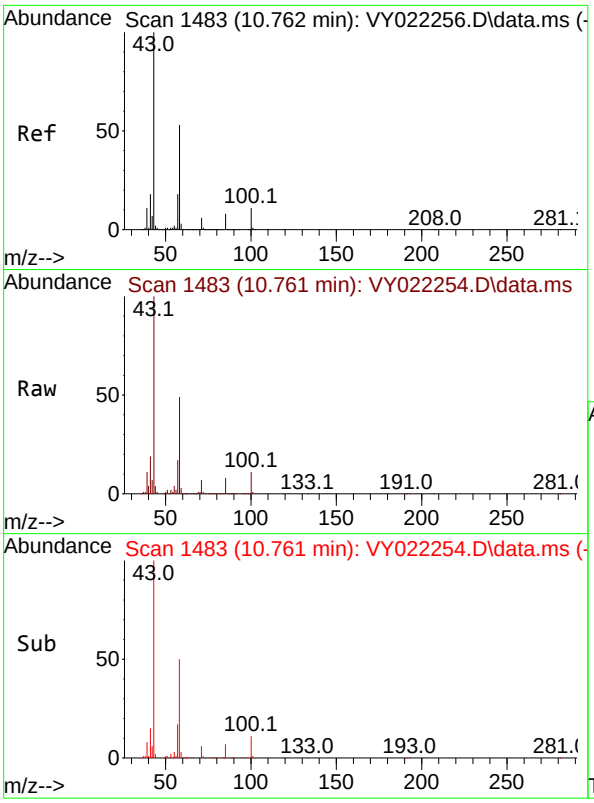




#58
2-Chloroethyl Vinyl ether
Concen: 44.066 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 63 Resp: 66700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.3 | 21.0 | 31.4 |

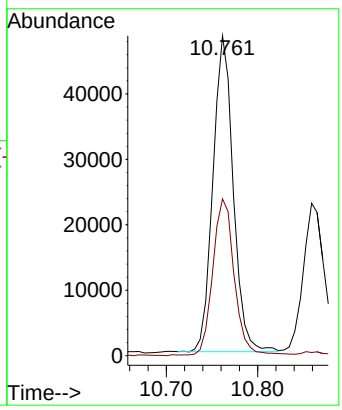





#59
2-Hexanone
Concen: 49.162 ug/l
RT: 10.761 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 7443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 53.2 | 26.1 | 78.3 |




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

**Manual Integrations**
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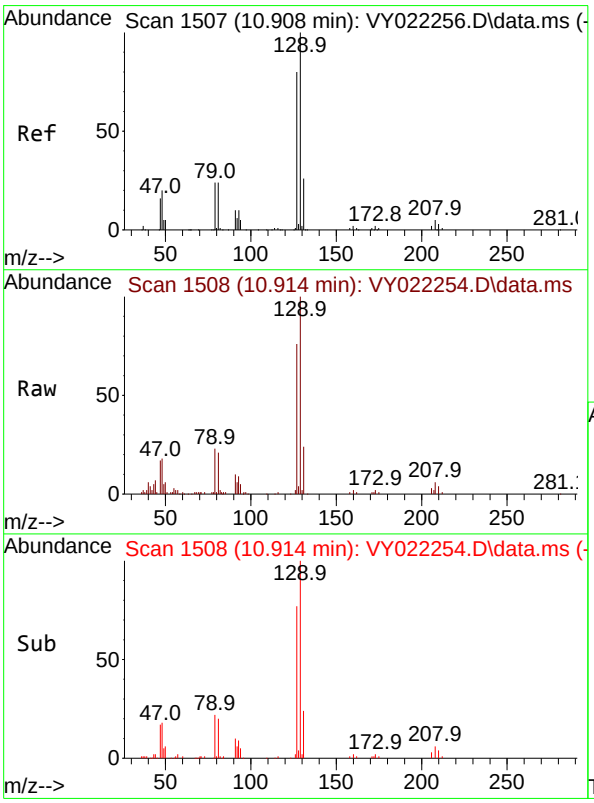
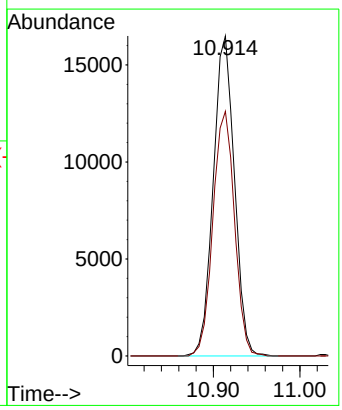
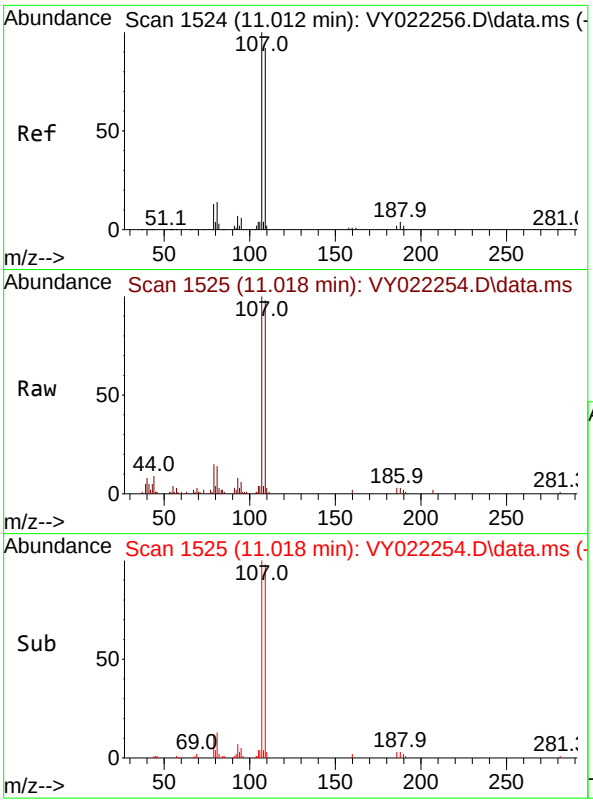



#60
Dibromochloromethane
Concen: 9.965 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:129 Resp: 28002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.8 | 38.6 | 115.7 |

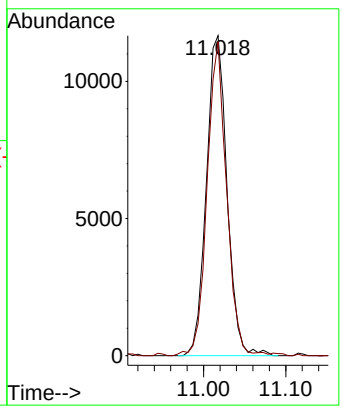





#61
1,2-Dibromoethane
Concen: 10.099 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:107 Resp: 2037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.6 | 74.6 | 111.8 |




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

**Manual Integrations**
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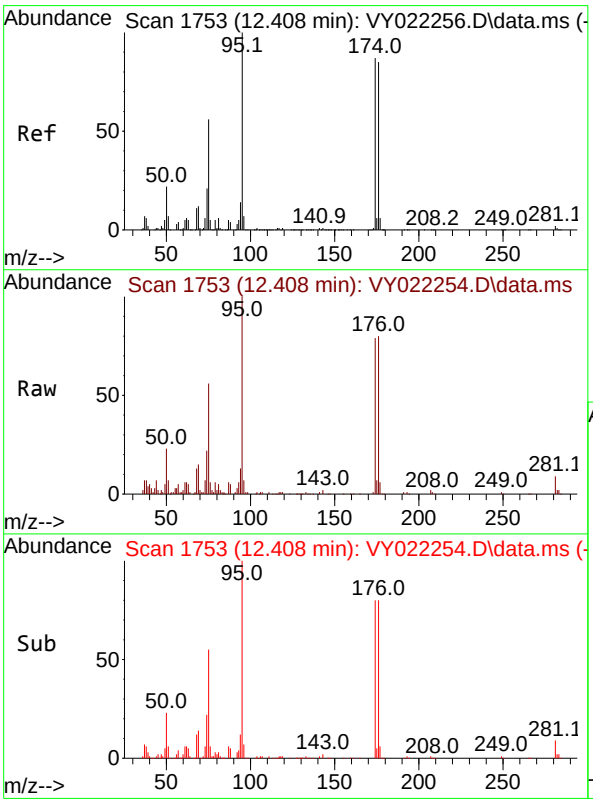
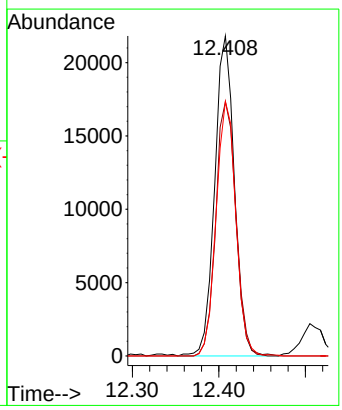
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

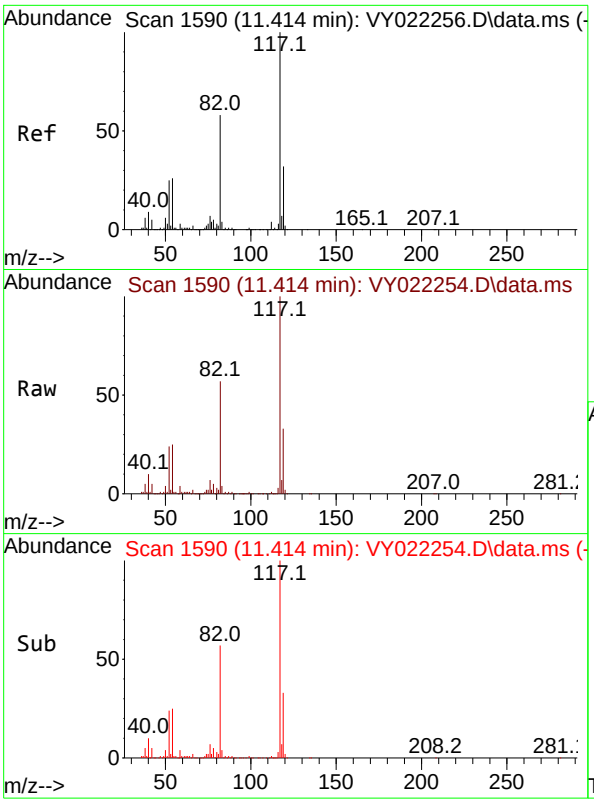



#62
4-Bromofluorobenzene
Concen: 9.959 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 95 Resp: 34423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 81.3 | 0.0 | 166.8 |
| 176 | 79.7 | 0.0 | 160.8 |

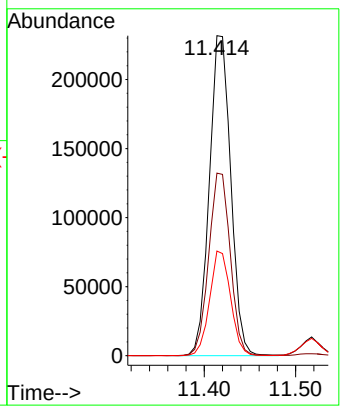





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:117 Resp: 37721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.0 | 46.6 | 70.0 |
| 119 | 32.7 | 25.8 | 38.6 |




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

**Manual Integrations APPROVED**

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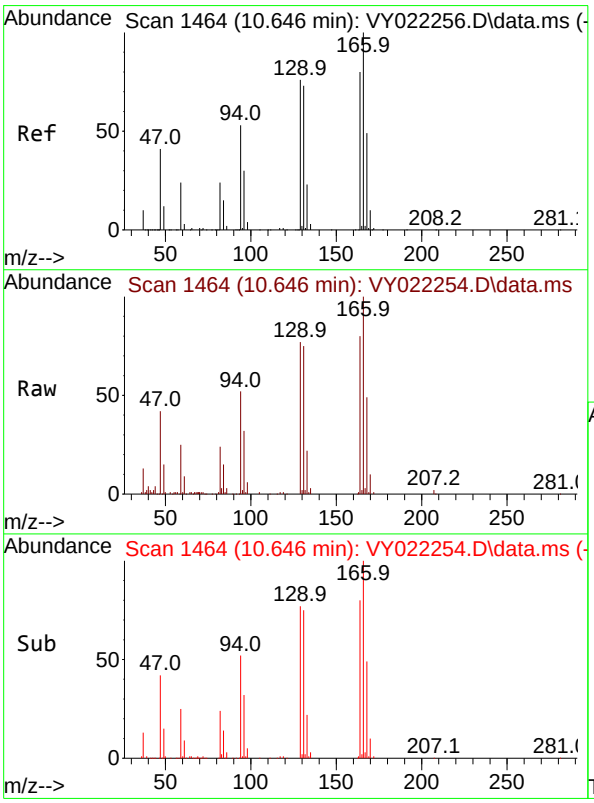
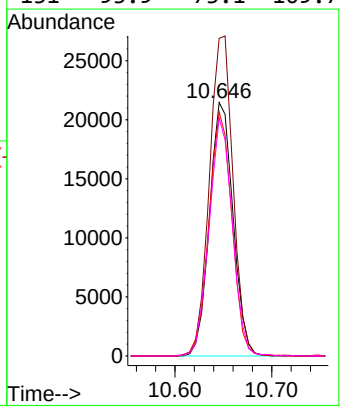
Supervised By :Semsettin Yesilyurt 05/16/2025

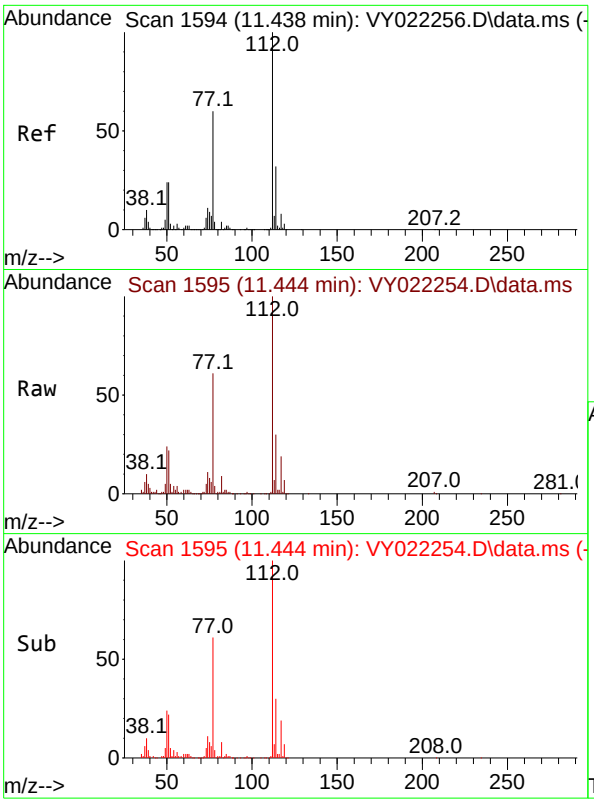



#64
Tetrachloroethene
Concen: 10.404 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:164 Resp: 36274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 125.3 | 100.4 | 150.6 |
| 129 | 96.3 | 76.4 | 114.6 |
| 131 | 93.9 | 73.1 | 109.7 |

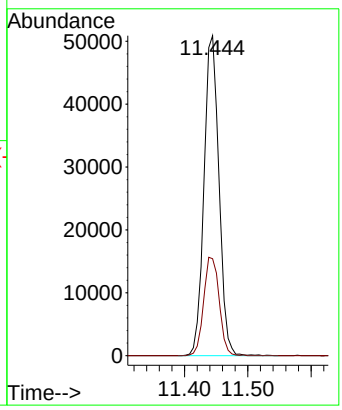





#65
Chlorobenzene
Concen: 9.839 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:112 Resp: 8373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 30.3 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
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**Manual Integrations**
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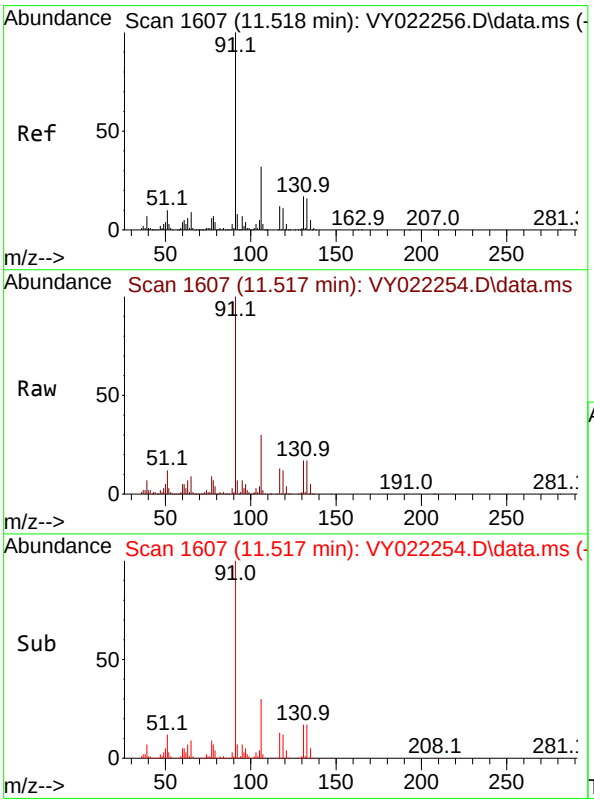
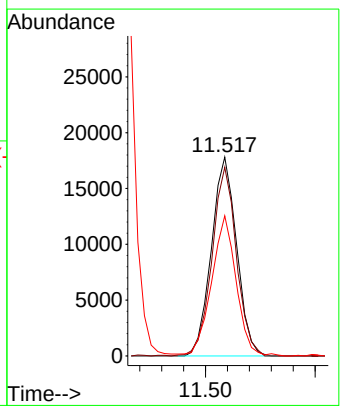
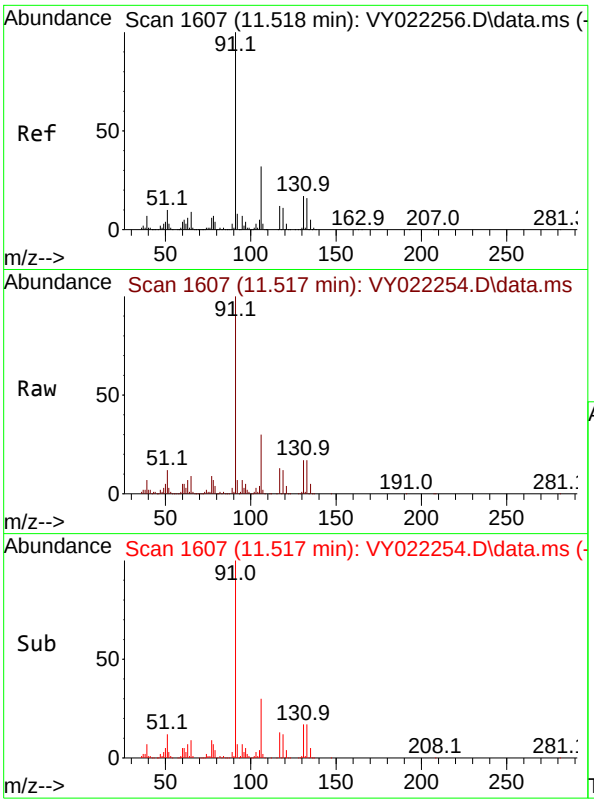



#66
1,1,1,2-Tetrachloroethane
Concen: 9.721 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:131 Resp: 28441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 92.3 | 47.3 | 141.9 |
| 119 | 69.0 | 33.1 | 99.2 |

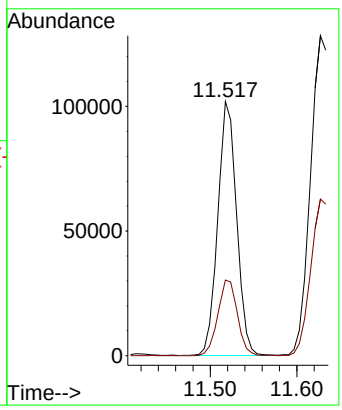





#67
Ethyl Benzene
Concen: 9.672 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 91 Resp: 15415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.8 | 25.4 | 38.0 |




**Instrument :**
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VSTDICC010

**Manual Integrations**
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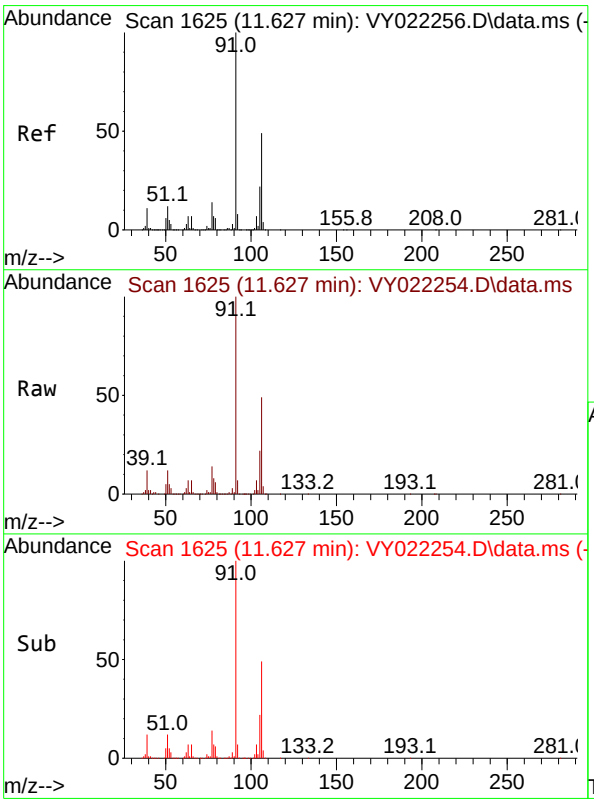
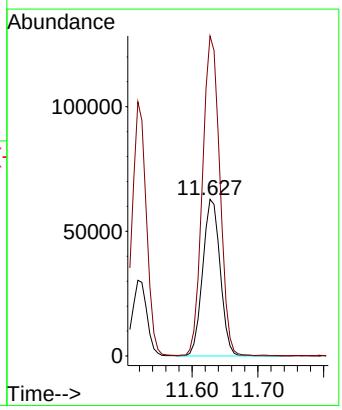
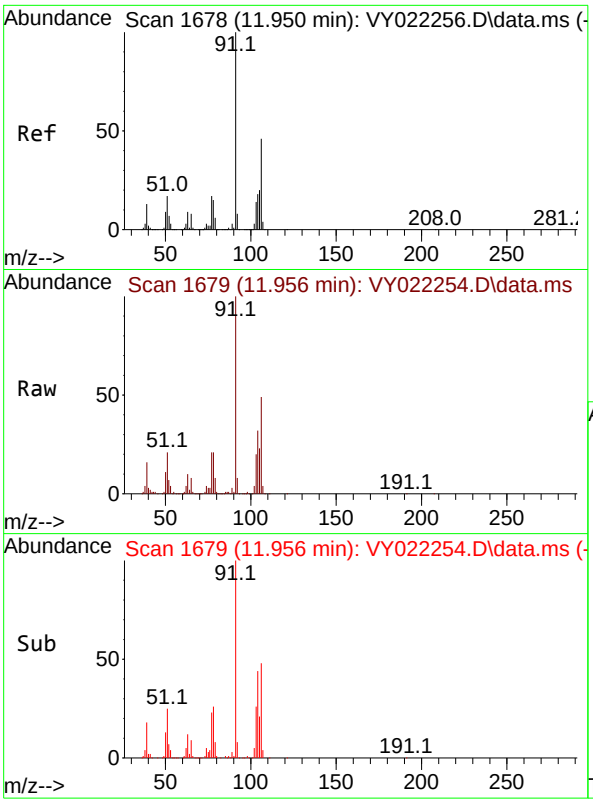



#68
m/p-Xylenes
Concen: 19.334 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:106 Resp: 116113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.4 | 163.0 | 244.4 |

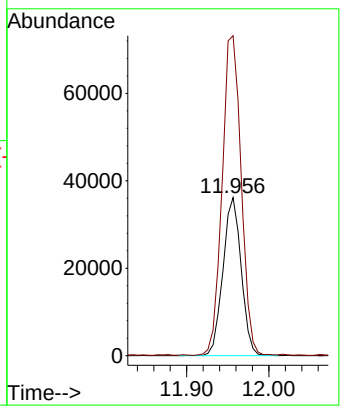





#69
o-Xylene
Concen: 9.837 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:106 Resp: 5589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.6 | 108.3 | 324.8 |




**Instrument :**
MSVOA_Y
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VSTDICC010

**Manual Integrations**
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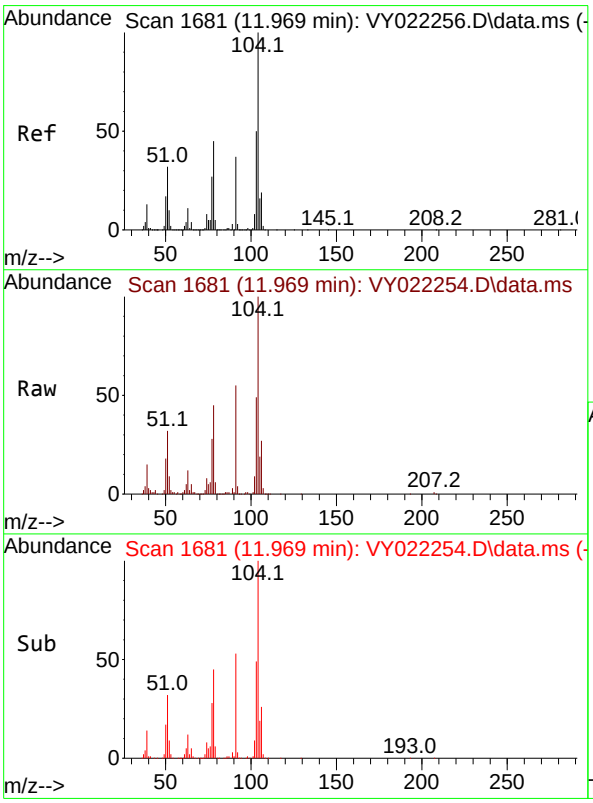
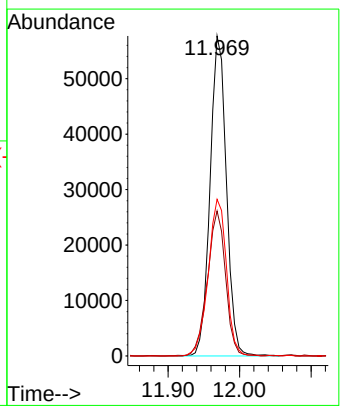
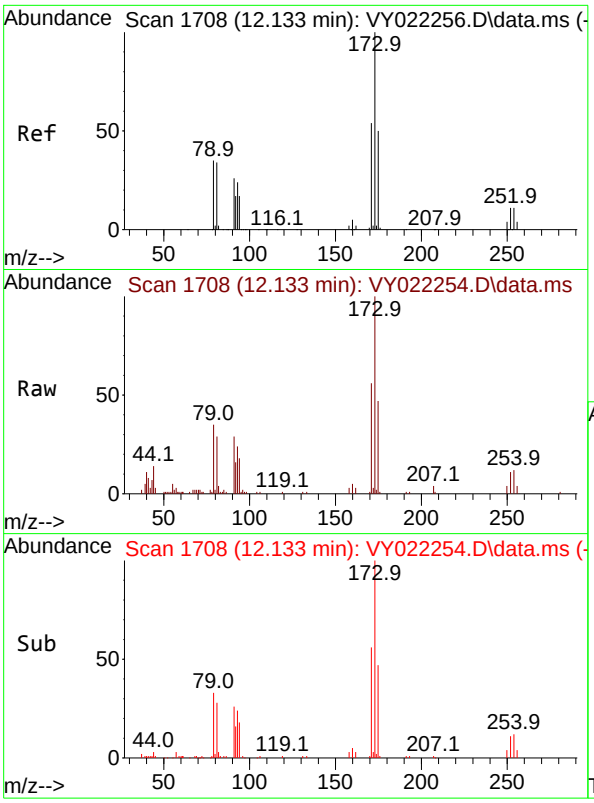



#70
Styrene
Concen: 9.553 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:104 Resp: 91569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.4 | 40.9 | 61.3 |
| 103 | 54.7 | 43.7 | 65.5 |

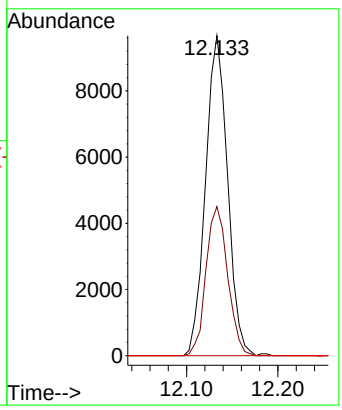





#71
Bromoform
Concen: 10.228 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:173 Resp: 1615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 45.9 | 24.7 | 74.1 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
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VSTDICC010

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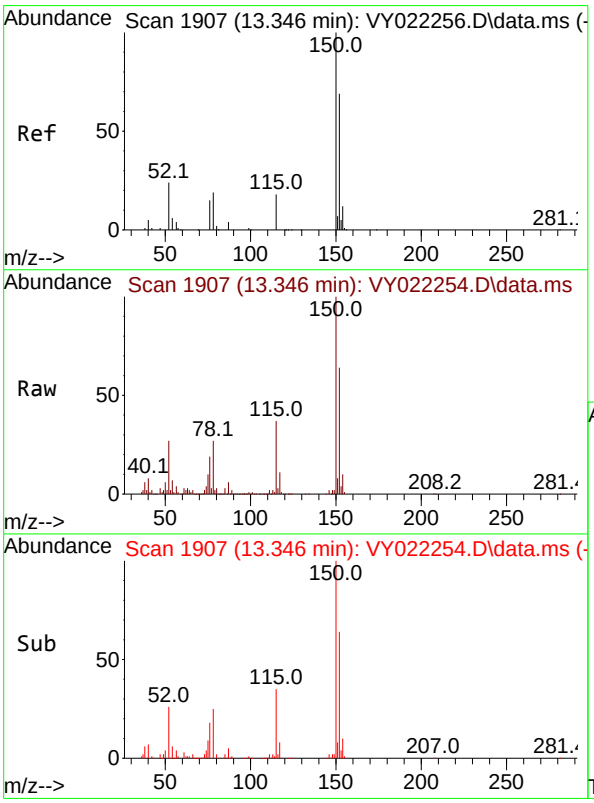
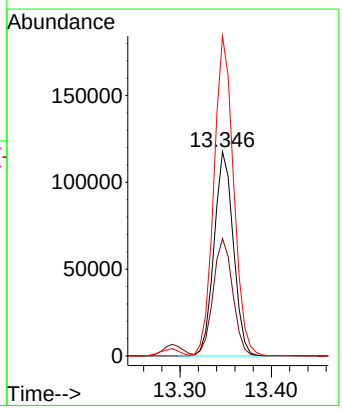
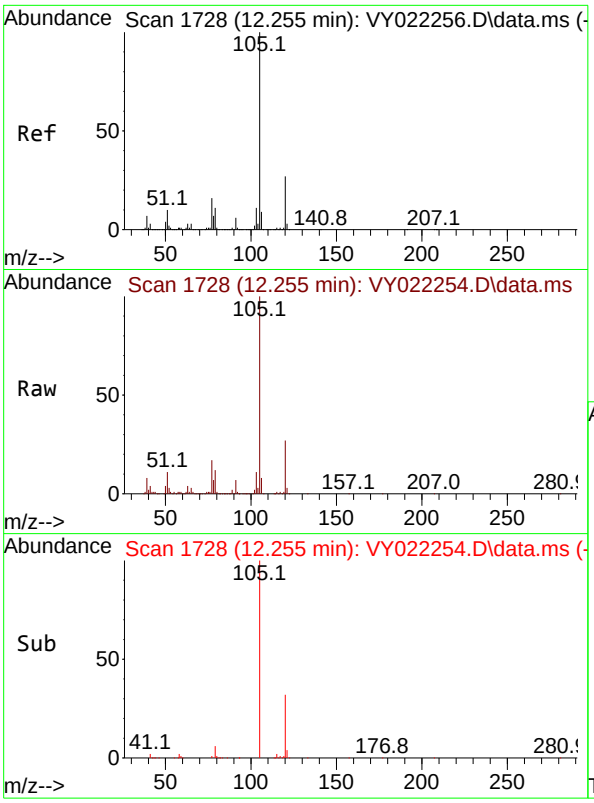



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:152 Resp: 171972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.4 | 29.4 | 88.2 |
| 150 | 161.2 | 0.0 | 353.8 |

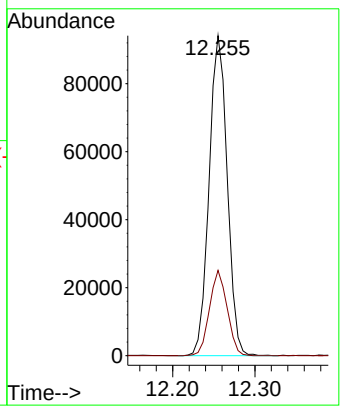





#73
Isopropylbenzene
Concen: 10.120 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:105 Resp: 14418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.9 | 13.2 | 39.6 |




**Instrument :**
MSVOA_Y
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VSTDICC010

**Manual Integrations**
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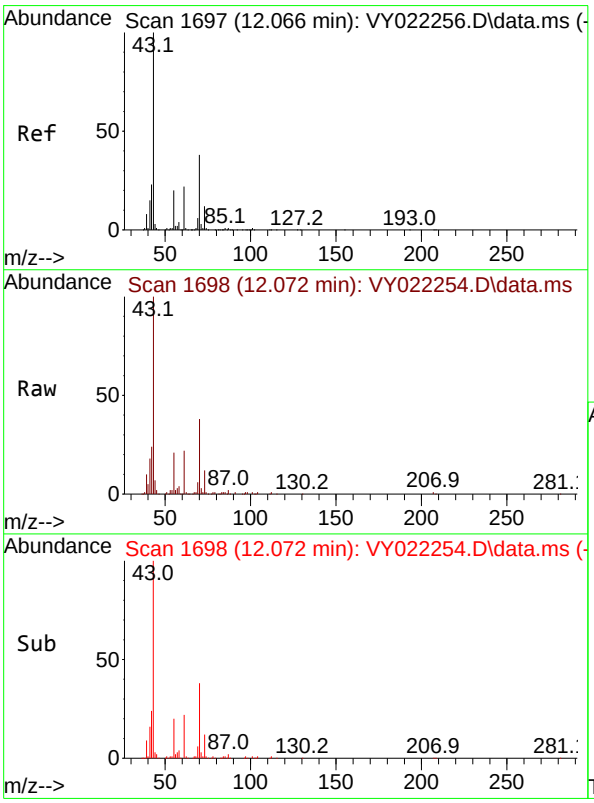
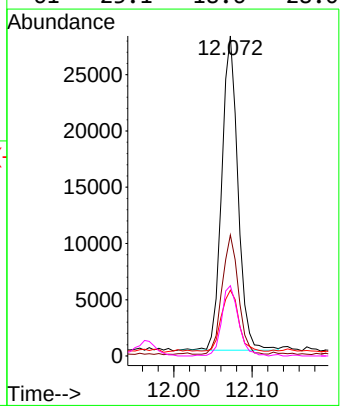
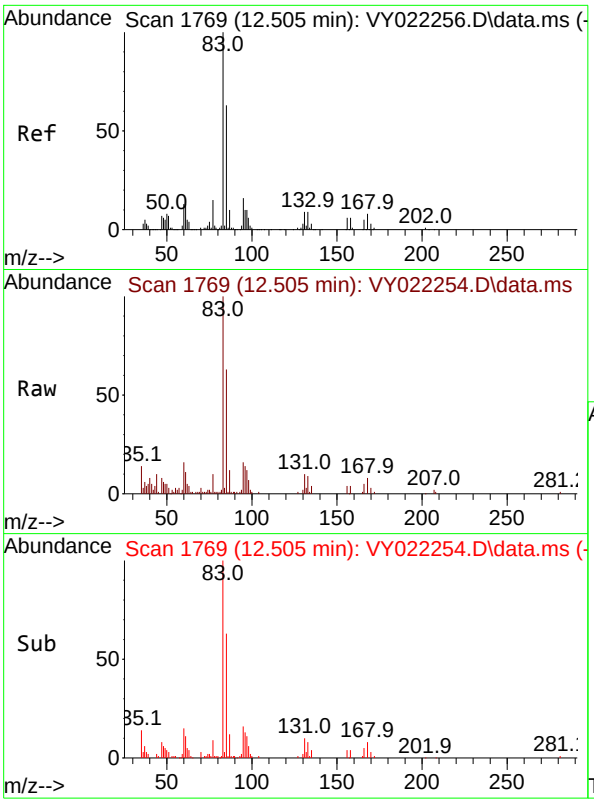



#74
N-amyl acetate
Concen: 9.901 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 40345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 38.2 | 31.4 | 47.0 |
| 55 | 20.5 | 17.0 | 25.6 |
| 61 | 23.1 | 18.6 | 28.0 |

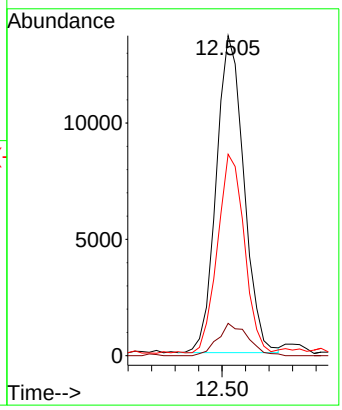





#75
1,1,2,2-Tetrachloroethane
Concen: 10.152 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 83 Resp: 2224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.1 | 4.9 | 14.7 |
| 85 | 60.8 | 32.0 | 96.0 |




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

**Manual Integrations**
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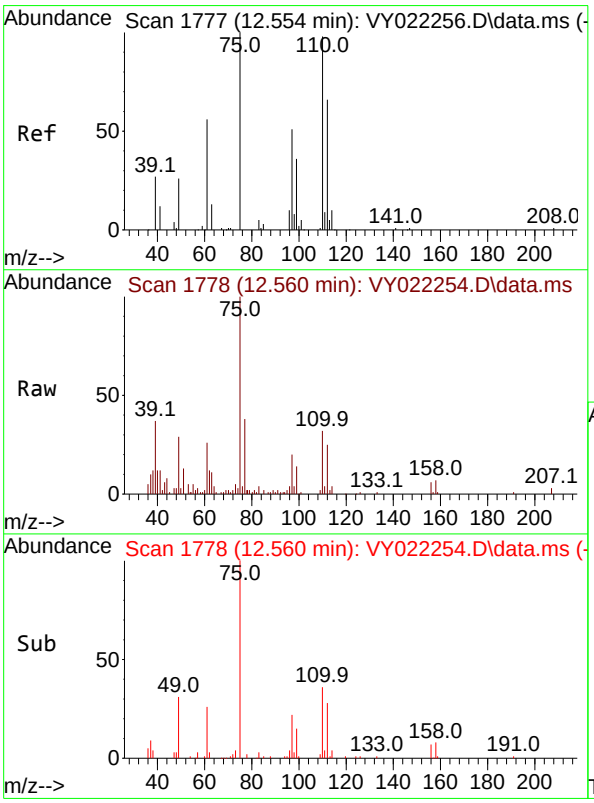
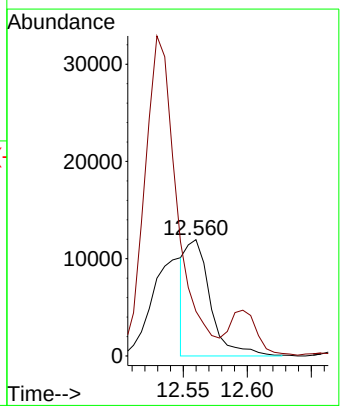
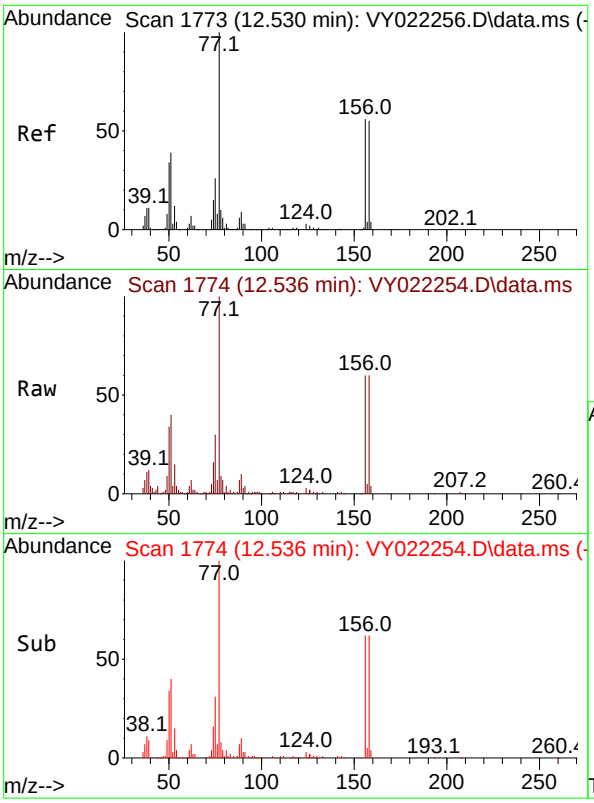



#76
1,2,3-Trichloropropane
Concen: 5.297 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 75 Resp: 16056

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

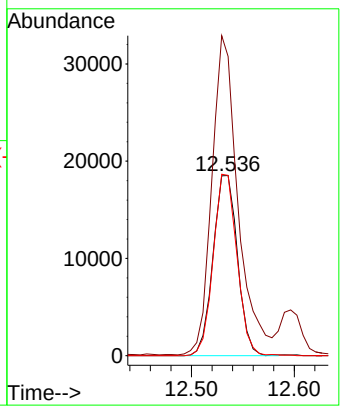





#77
Bromobenzene
Concen: 10.005 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:156 Resp: 3044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 189.7 | 94.5 | 283.6 |
| 158 | 98.1 | 48.4 | 145.3 |




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

**Manual Integrations APPROVED**

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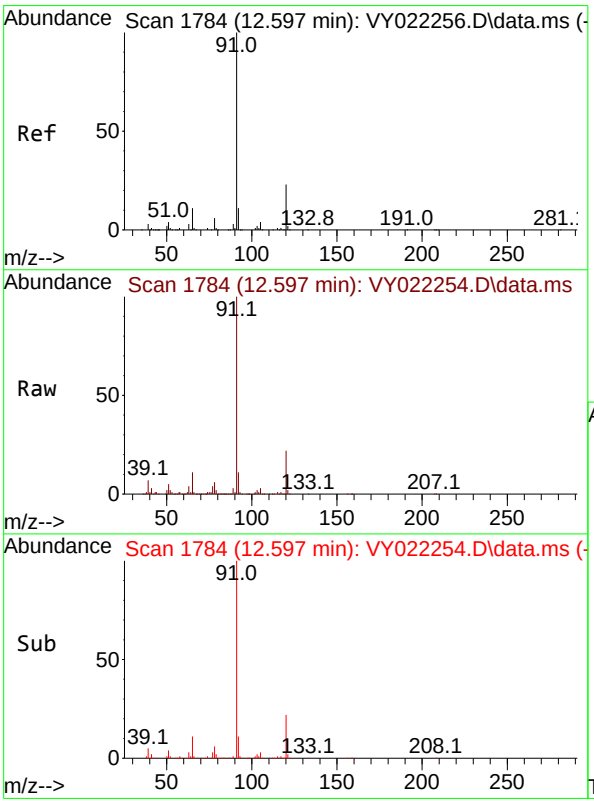
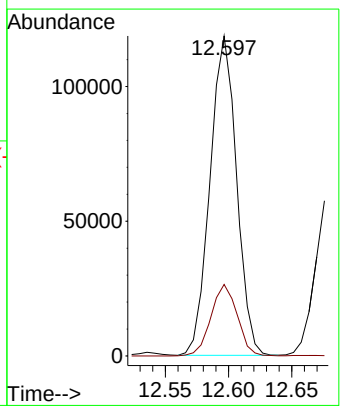
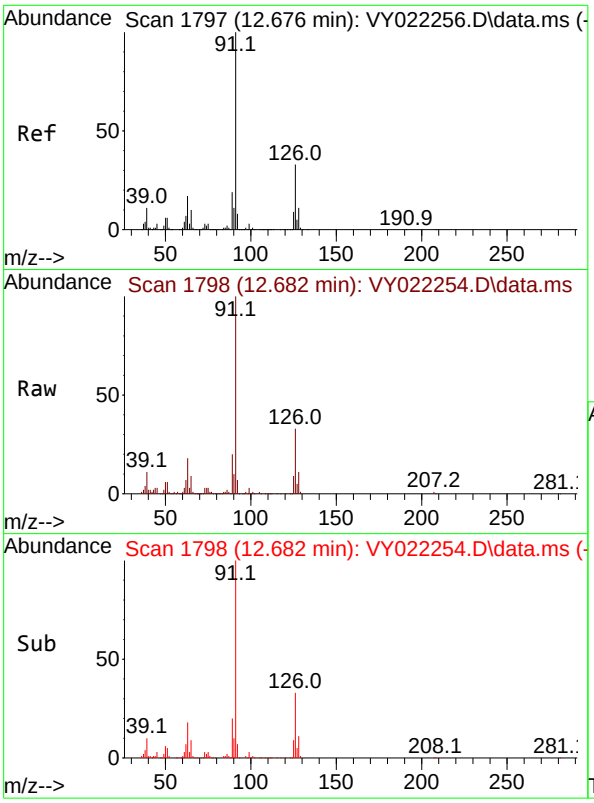



#78
n-propylbenzene
Concen: 10.101 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 91 Resp: 173575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.1 | 11.1 | 33.3 |

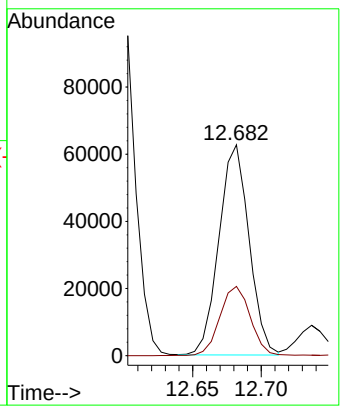





#79
2-Chlorotoluene
Concen: 10.146 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 91 Resp: 9581

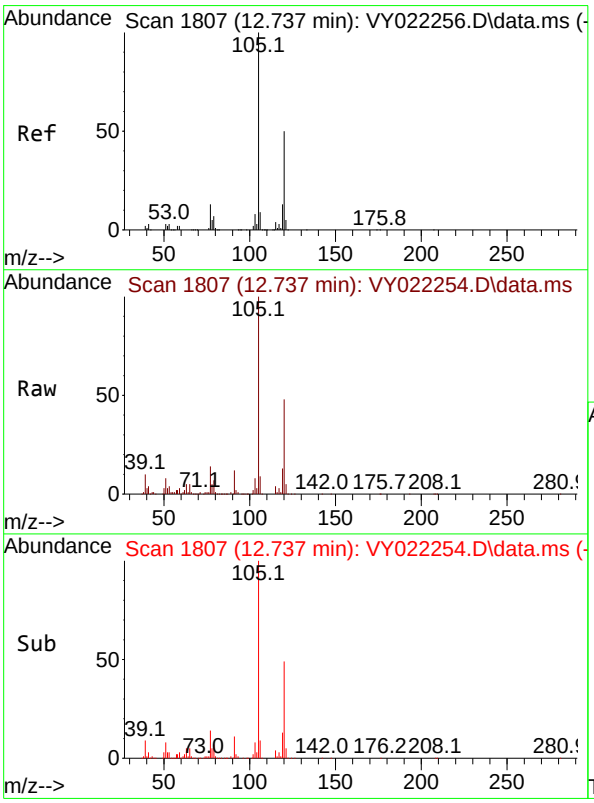
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.6 | 16.8 | 50.4 |




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

**Manual Integrations**
**APPROVED**

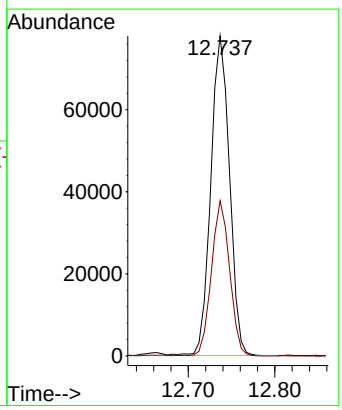
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

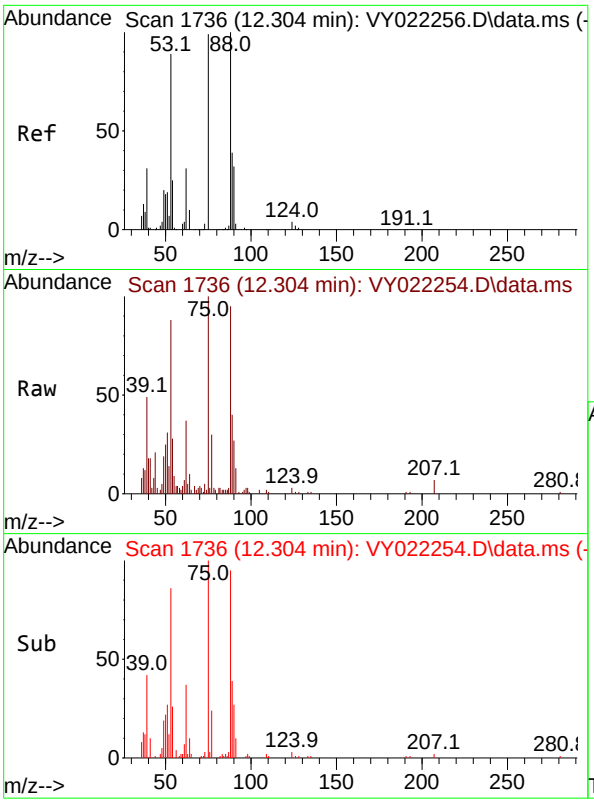



#80
1,3,5-Trimethylbenzene
Concen: 10.126 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:105 Resp: 116461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.4 | 24.2 | 72.6 |

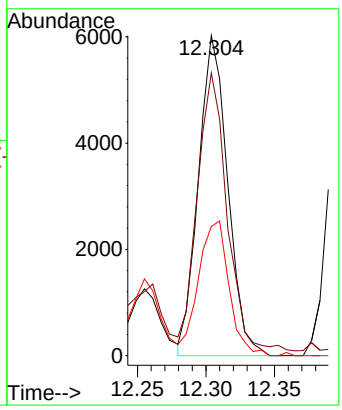





#81
trans-1,4-Dichloro-2-butene
Concen: 10.388 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 75 Resp: 893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 87.6 | 75.8 | 113.8 |
| 89 | 44.0 | 36.2 | 54.2 |

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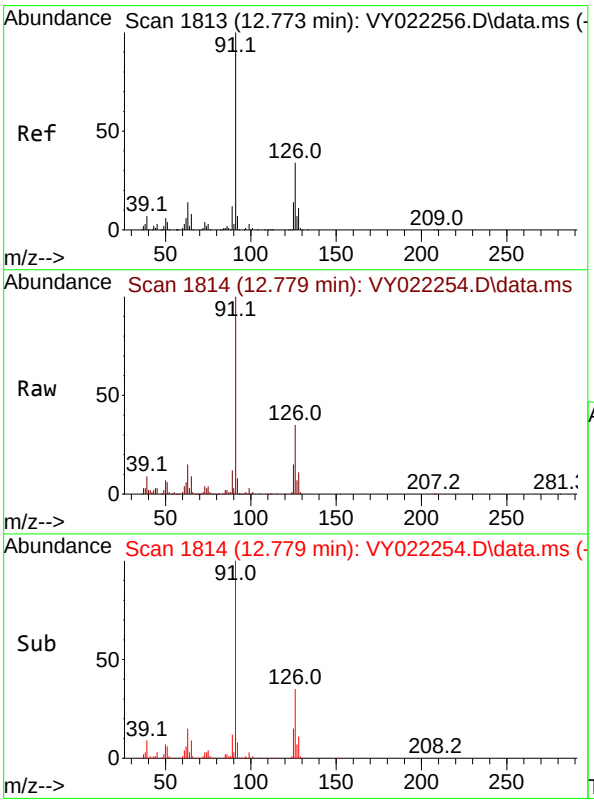
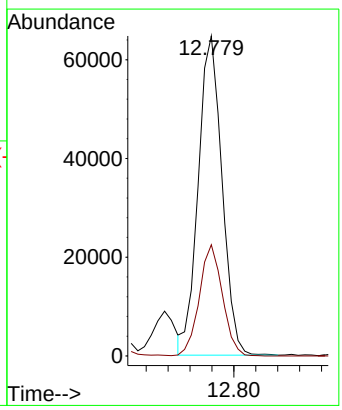
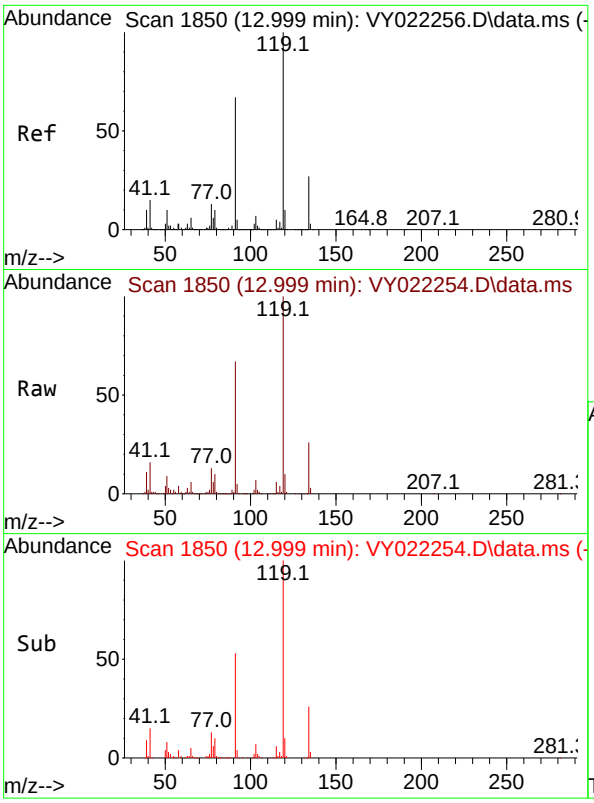



#82
4-Chlorotoluene
Concen: 10.018 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 91 Resp: 97309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.9 | 16.8 | 50.4 |

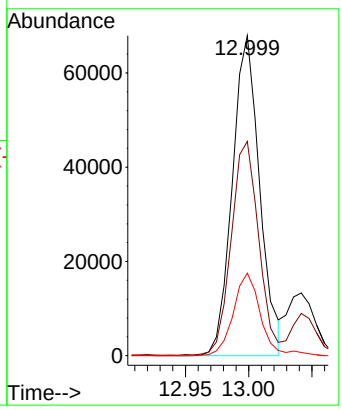





#83
tert-Butylbenzene
Concen: 10.005 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:119 Resp: 10227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 66.9 | 32.8 | 98.3 |
| 134 | 25.7 | 12.9 | 38.6 |




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

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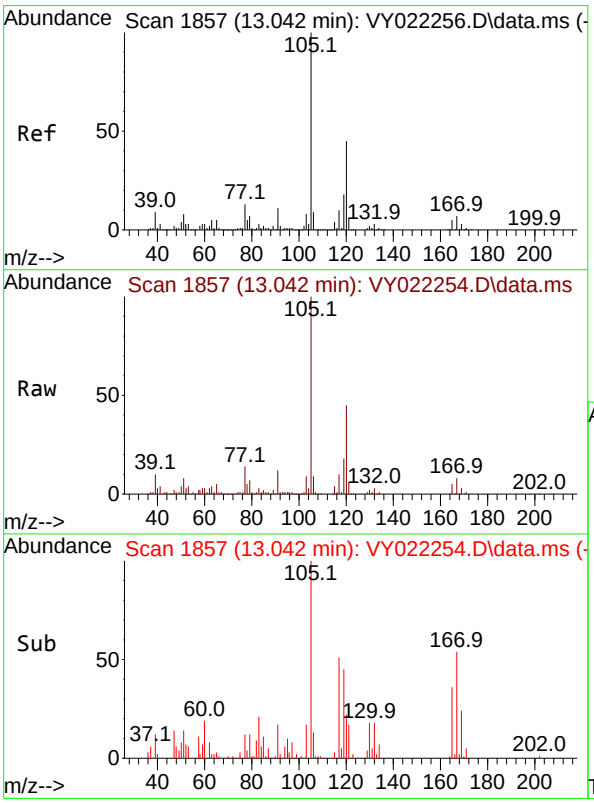
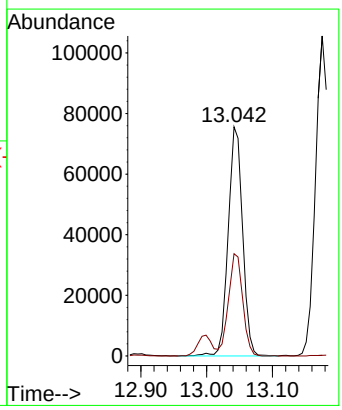
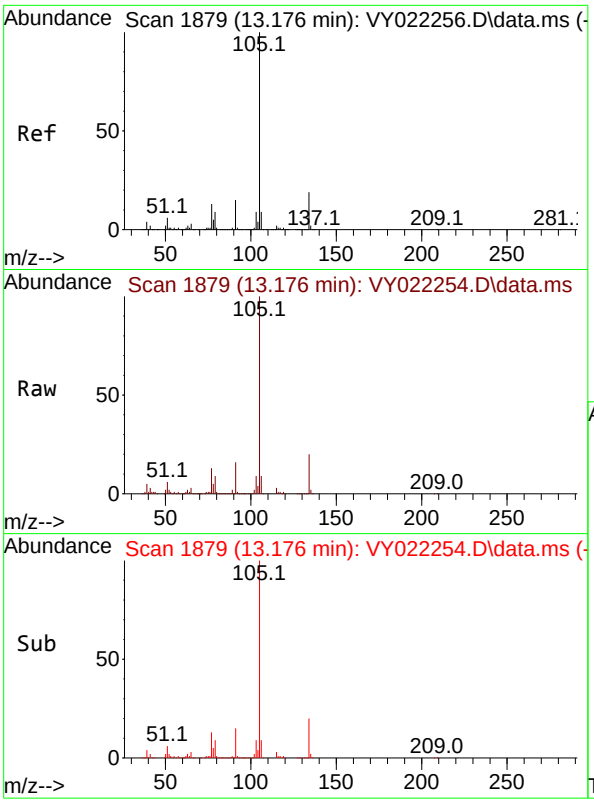



#84
1,2,4-Trimethylbenzene
Concen: 10.088 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:105 Resp: 115175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.0 | 22.3 | 66.9 |

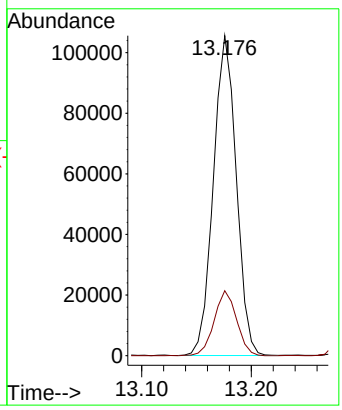





#85
sec-Butylbenzene
Concen: 10.112 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:105 Resp: 15344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 9.8 | 29.5 |




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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
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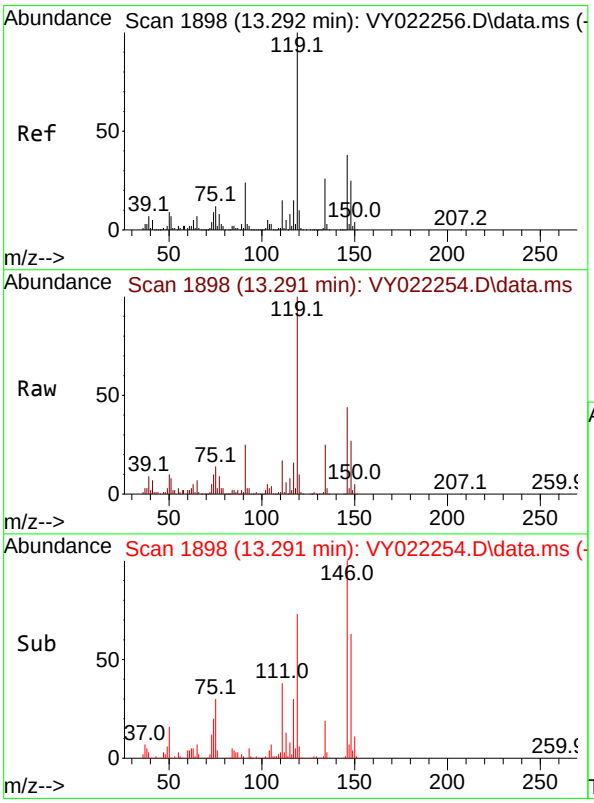
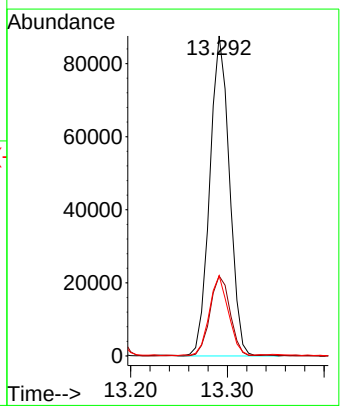
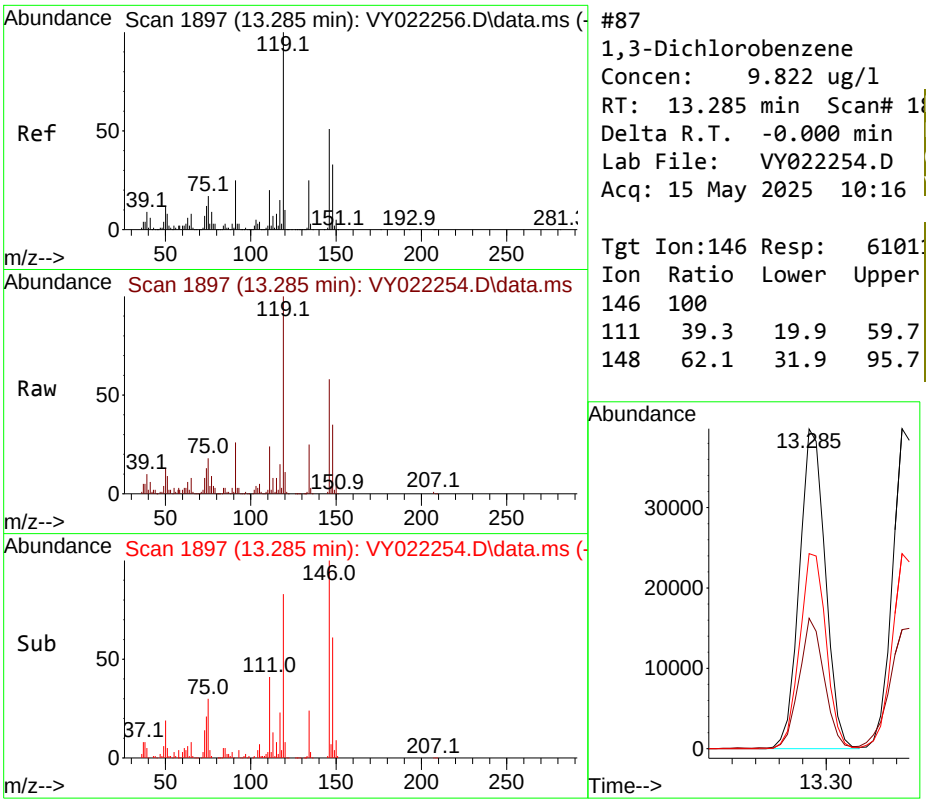



#86
p-Isopropyltoluene
Concen: 9.728 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:119 Resp: 124147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.4 | 12.9 | 38.6 |
| 91 | 24.1 | 12.1 | 36.3 |






#87
1,3-Dichlorobenzene
Concen: 9.822 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:146 Resp: 6101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.3 | 19.9 | 59.7 |
| 148 | 62.1 | 31.9 | 95.7 |

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

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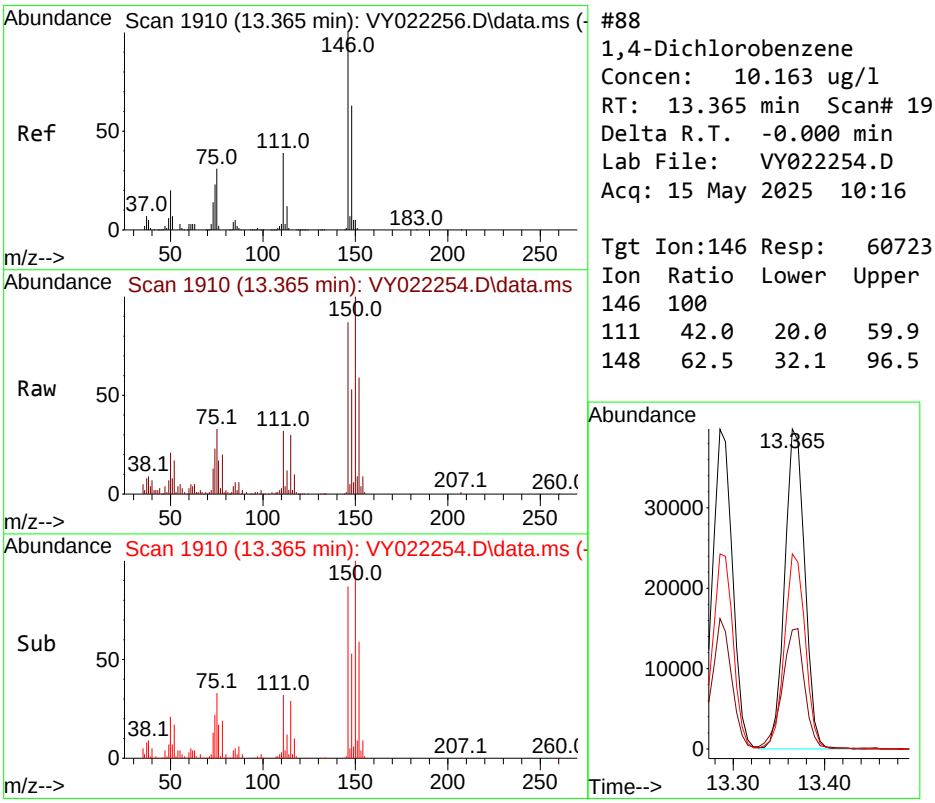
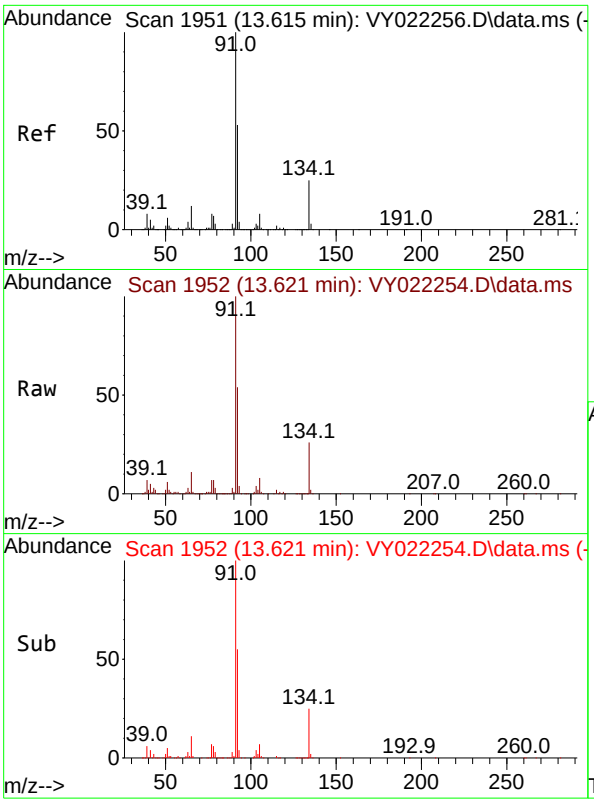



#88
1,4-Dichlorobenzene
Concen: 10.163 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:146 Resp: 60723

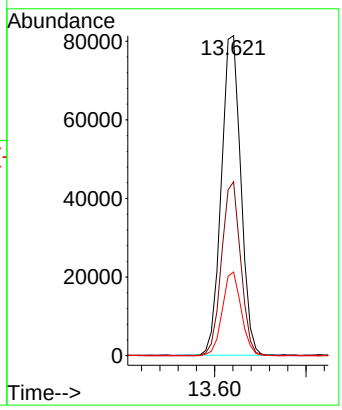
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.0 | 20.0 | 59.9 |
| 148 | 62.5 | 32.1 | 96.5 |




#89
n-Butylbenzene
Concen: 9.970 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 91 Resp: 12037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.6 | 26.3 | 78.9 |
| 134 | 25.5 | 12.4 | 37.4 |




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

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Reviewed By :Mahesh Dadoda 05/16/2025
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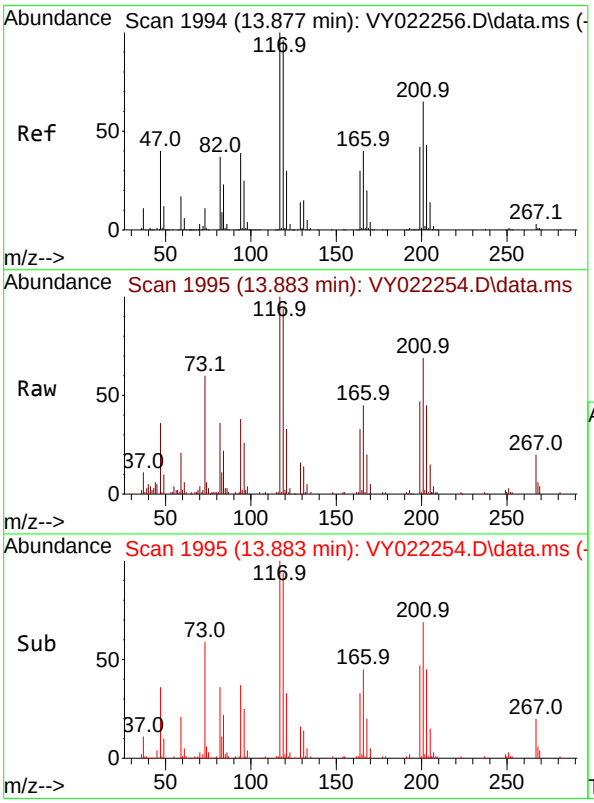
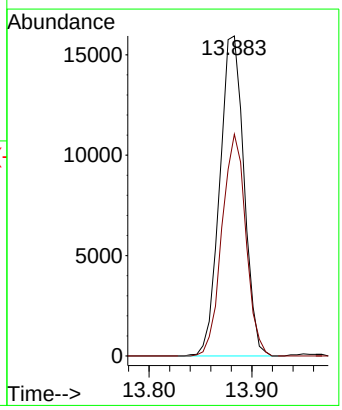
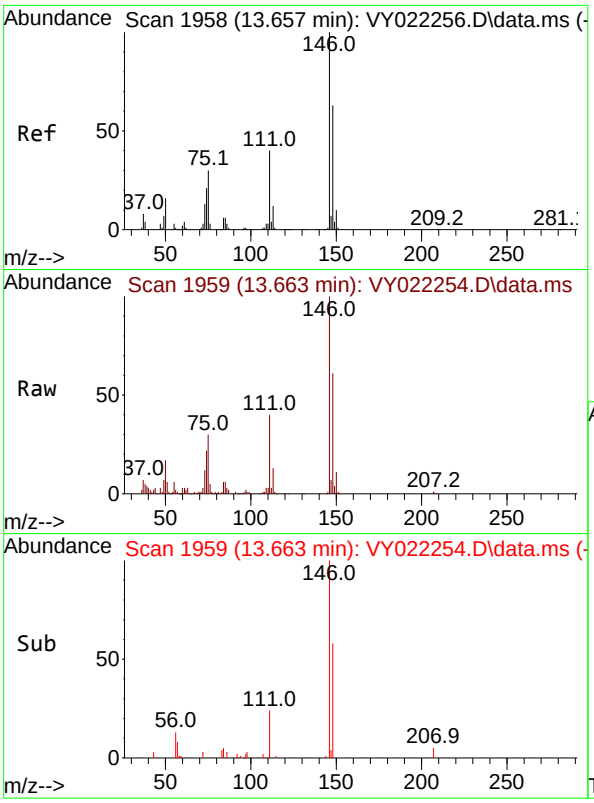



#90
Hexachloroethane
Concen: 10.127 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:117 Resp: 26089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 68.2 | 35.2 | 105.6 |

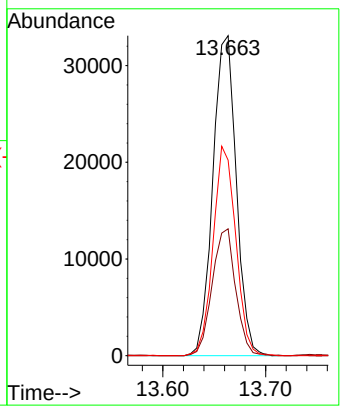





#91
1,2-Dichlorobenzene
Concen: 10.020 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:146 Resp: 5228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 20.5 | 61.5 |
| 148 | 63.5 | 32.0 | 96.0 |




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

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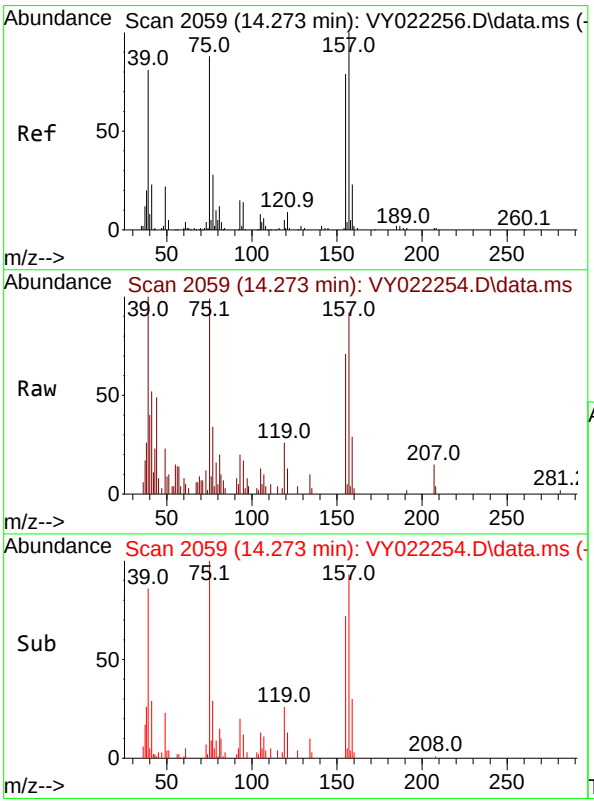
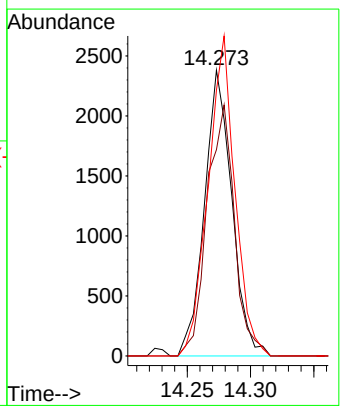
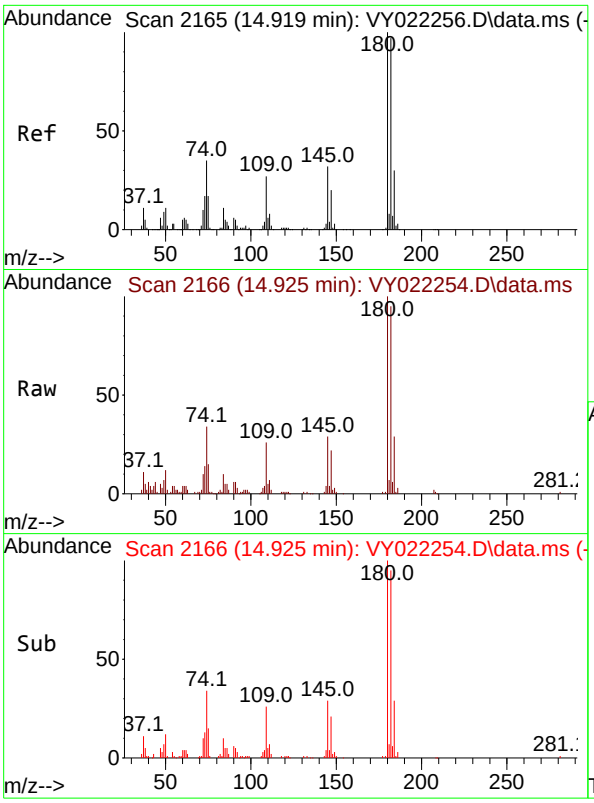



#92
1,2-Dibromo-3-Chloropropane
Concen: 10.155 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 75 Resp: 3588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 88.0 | 43.4 | 130.1 |
| 157 | 109.8 | 54.6 | 163.9 |

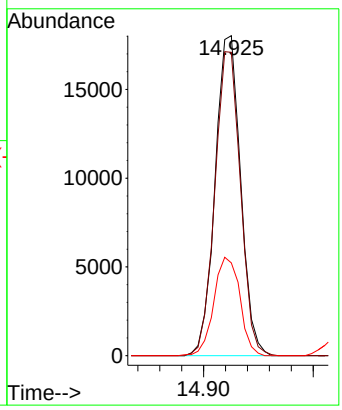





#93
1,2,4-Trichlorobenzene
Concen: 9.646 ug/l
RT: 14.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:180 Resp: 2907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 48.0 | 144.0 |
| 145 | 31.4 | 15.0 | 45.1 |




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

**Manual Integrations**
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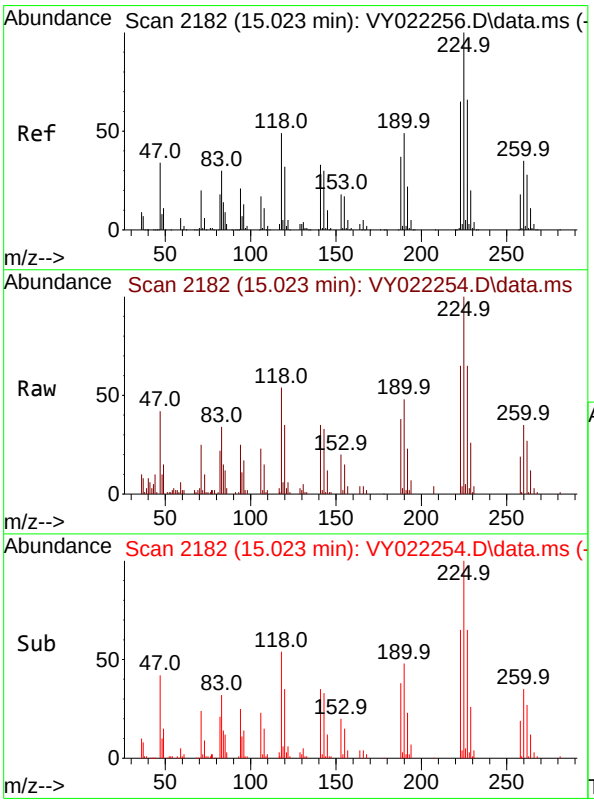
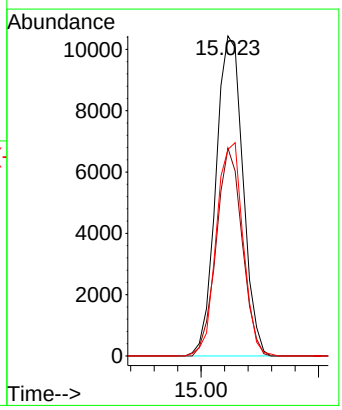
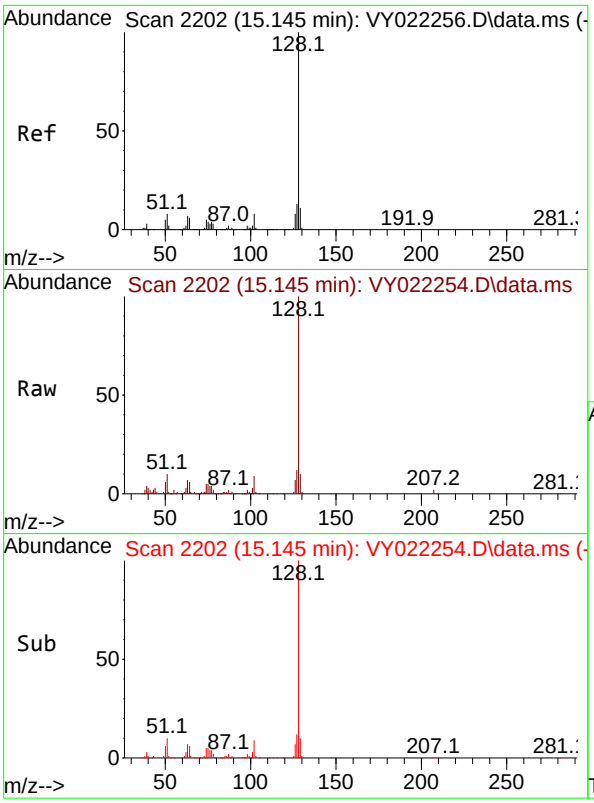



#94
Hexachlorobutadiene
Concen: 9.927 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:225 Resp: 16686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.2 | 31.5 | 94.5 |
| 227 | 65.8 | 32.1 | 96.3 |

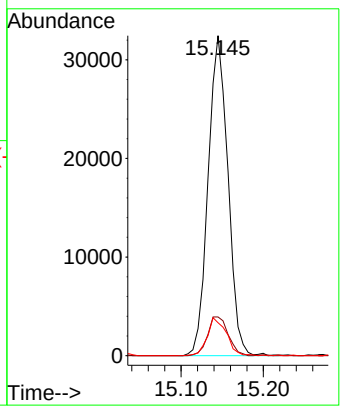





#95
Naphthalene
Concen: 9.495 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:128 Resp: 5430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.6 | 10.2 | 15.2 |
| 129 | 11.5 | 8.8 | 13.2 |




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

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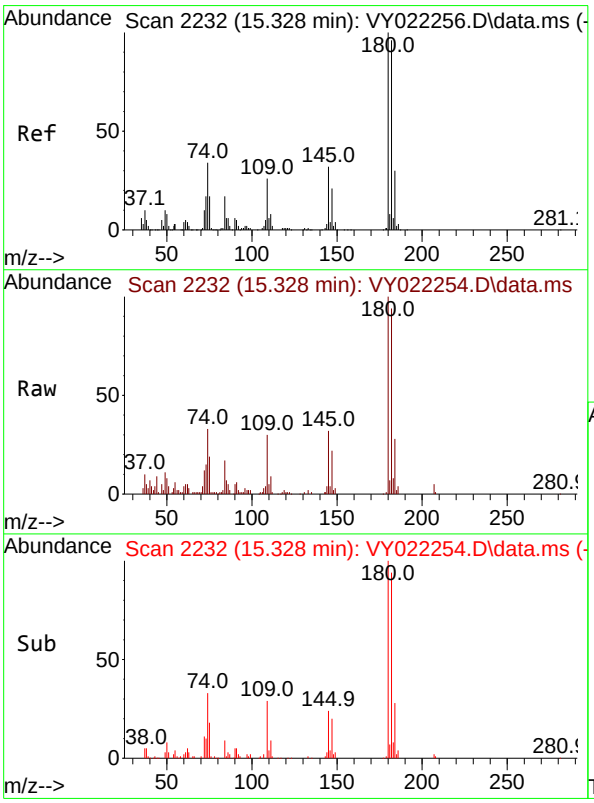
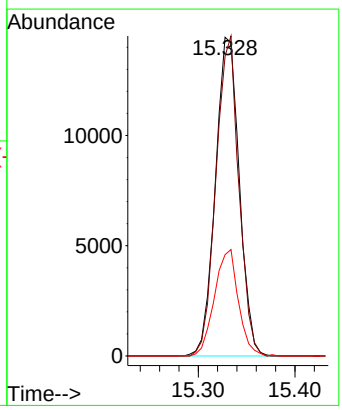



#96
1,2,3-Trichlorobenzene
Concen: 9.696 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:180 Resp: 24790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 47.1 | 141.3 |
| 145 | 33.4 | 15.9 | 47.6 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022255.D
Acq On : 15 May 2025 10:39
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:22:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 262008 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 439816 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 370072 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 172509 | 50.000 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 55221 | 19.284 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 38.560%# | | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 51670 | 19.683 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 39.360%# | | | | |
| 50) Toluene-d8 | 10.109 | 98 | 210206 | 19.552 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 39.100%# | | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 64706 | 18.988 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 37.980% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 56737 | 20.753 | ug/l | | 99 |
| 3) Chloromethane | 2.068 | 50 | 120819 | 21.008 | ug/l | | 97 |
| 4) Vinyl Chloride | 2.202 | 62 | 132511 | 20.623 | ug/l | | 96 |
| 5) Bromomethane | 2.592 | 94 | 110855 | 21.194 | ug/l | | 99 |
| 6) Chloroethane | 2.732 | 64 | 83451 | 20.877 | ug/l | | 99 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 132029 | 20.295 | ug/l | | 97 |
| 8) Diethyl Ether | 3.458 | 74 | 29651 | 18.993 | ug/l | | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 57012 | 20.187 | ug/l | | 98 |
| 10) Methyl Iodide | 4.001 | 142 | 65018 | 19.891 | ug/l | | 98 |
| 11) Tert butyl alcohol | 4.872 | 59 | 19585 | 89.565 | ug/l | # | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 56630 | 20.206 | ug/l | | 98 |
| 13) Acrolein | 3.653 | 56 | 30106 | 94.178 | ug/l | | 91 |
| 14) Allyl chloride | 4.385 | 41 | 99483 | 20.244 | ug/l | | 100 |
| 15) Acrylonitrile | 5.061 | 53 | 60119 | 93.456 | ug/l | | 100 |
| 16) Acetone | 3.873 | 43 | 50198 | 93.491 | ug/l | | 96 |
| 17) Carbon Disulfide | 4.104 | 76 | 184860 | 20.228 | ug/l | | 99 |
| 18) Methyl Acetate | 4.391 | 43 | 29969 | 18.344 | ug/l | | 96 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 145976 | 18.890 | ug/l | | 100 |
| 20) Methylene Chloride | 4.616 | 84 | 67687 | 19.510 | ug/l | | 99 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 63174 | 20.422 | ug/l | | 97 |
| 22) Diisopropyl ether | 6.019 | 45 | 202960 | 19.558 | ug/l | | 99 |
| 23) Vinyl Acetate | 5.958 | 43 | 594019 | 94.748 | ug/l | | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 115217 | 19.873 | ug/l | | 99 |
| 25) 2-Butanone | 6.896 | 43 | 82768 | 92.157 | ug/l | | 93 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 101725 | 19.727 | ug/l | | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 70008 | 19.611 | ug/l | | 98 |
| 28) Bromochloromethane | 7.244 | 49 | 48933 | 19.787 | ug/l | | 100 |
| 29) Tetrahydrofuran | 7.262 | 42 | 53229 | 92.122 | ug/l | | 98 |
| 30) Chloroform | 7.421 | 83 | 111815 | 20.107 | ug/l | | 98 |
| 31) Cyclohexane | 7.695 | 56 | 112876 | 19.486 | ug/l | | 97 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 100618 | 19.721 | ug/l | | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 85789 | 19.841 | ug/l | | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 38482 | 18.497 | ug/l | | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 86871 | 19.410 | ug/l | | 98 |
| 39) Methylcyclohexane | 9.109 | 83 | 113511 | 19.540 | ug/l | | 98 |
| 40) Benzene | 8.079 | 78 | 252507 | 19.700 | ug/l | | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022255.D
Acq On : 15 May 2025 10:39
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:22:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.213 | 41 | 26008m | 17.085 ug/l | | |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 66525 | 19.192 ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 84532 | 18.631 ug/l | | 97 |
| 44) Trichloroethene | 8.866 | 130 | 63438 | 19.904 ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 60438 | 19.557 ug/l | | 100 |
| 46) Dibromomethane | 9.231 | 93 | 31752 | 19.050 ug/l | | 99 |
| 47) Bromodichloromethane | 9.426 | 83 | 83823 | 19.385 ug/l | | 96 |
| 48) Methyl methacrylate | 9.219 | 41 | 39387 | 18.563 ug/l | | 99 |
| 49) 1,4-Dioxane | 9.237 | 88 | 7312 | 388.323 ug/l | | 93 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 202454 | 90.940 ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 156498 | 19.281 ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 80413 | 19.056 ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 94074 | 19.458 ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 40872 | 19.149 ug/l | | 99 |
| 56) Ethyl methacrylate | 10.438 | 69 | 62193 | 18.706 ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 72715 | 19.175 ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 126240 | 84.595 ug/l | | 99 |
| 59) 2-Hexanone | 10.762 | 43 | 132496 | 88.766 ug/l | | 100 |
| 60) Dibromochloromethane | 10.914 | 129 | 52353 | 18.898 ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 37735 | 18.969 ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 69548 | 20.332 ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 163725 | 19.610 ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 55078 | 19.189 ug/l | | 98 |
| 67) Ethyl Benzene | 11.518 | 91 | 303375 | 19.402 ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 225990 | 38.355 ug/l | | 100 |
| 69) o-Xylene | 11.956 | 106 | 106998 | 19.194 ug/l | | 100 |
| 70) Styrene | 11.969 | 104 | 179114 | 19.048 ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 28788 | 18.582 ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 282895 | 19.795 ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 76841 | 18.799 ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 40064 | 18.228 ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 35574m | 11.701 ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 58515 | 19.170 ug/l | | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 338383 | 19.630 ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 185872 | 19.621 ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 225966 | 19.587 ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 16653 | 19.302 ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 189350 | 19.433 ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 200101 | 19.515 ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 221194 | 19.315 ug/l | | 98 |
| 85) sec-Butylbenzene | 13.176 | 105 | 297975 | 19.576 ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 246569 | 19.261 ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 118336 | 18.991 ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 117705 | 19.638 ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 240857 | 19.887 ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 50762 | 19.643 ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 102077 | 19.502 ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 6387 | 18.021 ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 58490 | 19.346 ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 34228 | 20.301 ug/l | | 100 |
| 95) Naphthalene | 15.145 | 128 | 105350 | 18.362 ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 48444 | 18.888 ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022255.D
Acq On : 15 May 2025 10:39
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:22:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

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

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

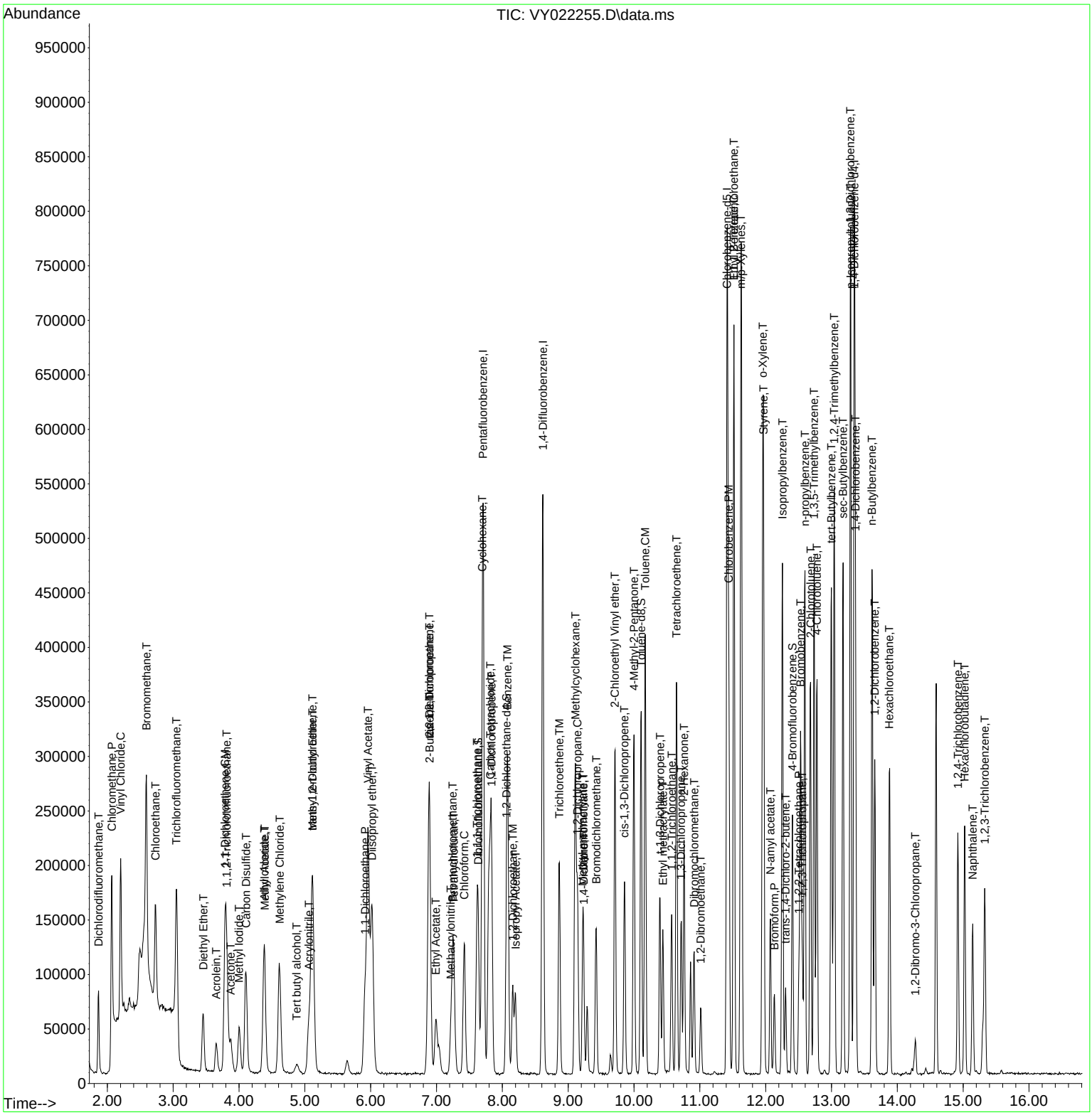
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022255.D
Acq On : 15 May 2025 10:39
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

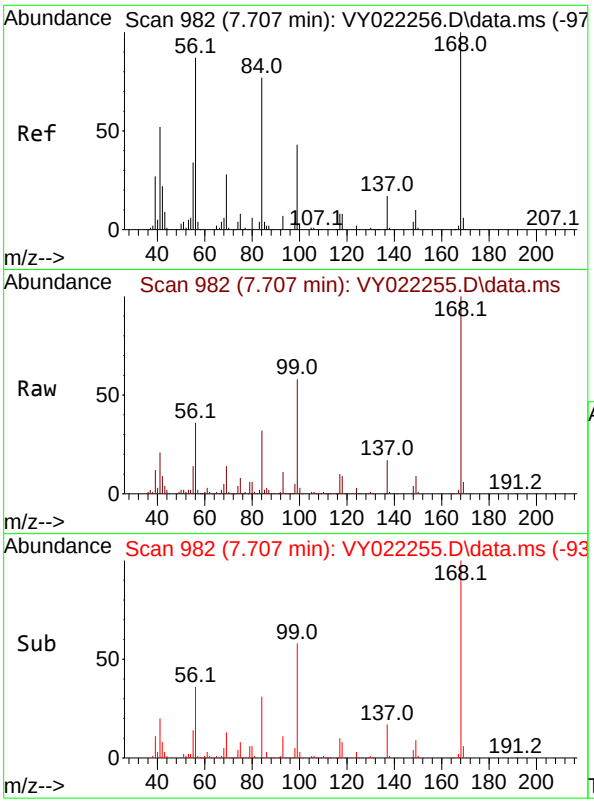
Quant Time: May 16 01:22:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

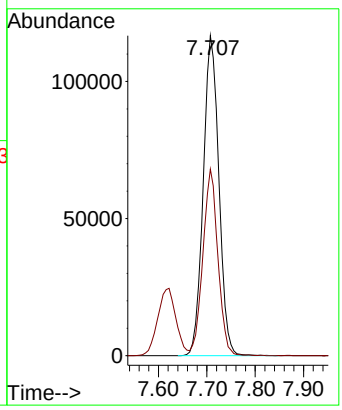
Tgt Ion:168 Resp: 26200

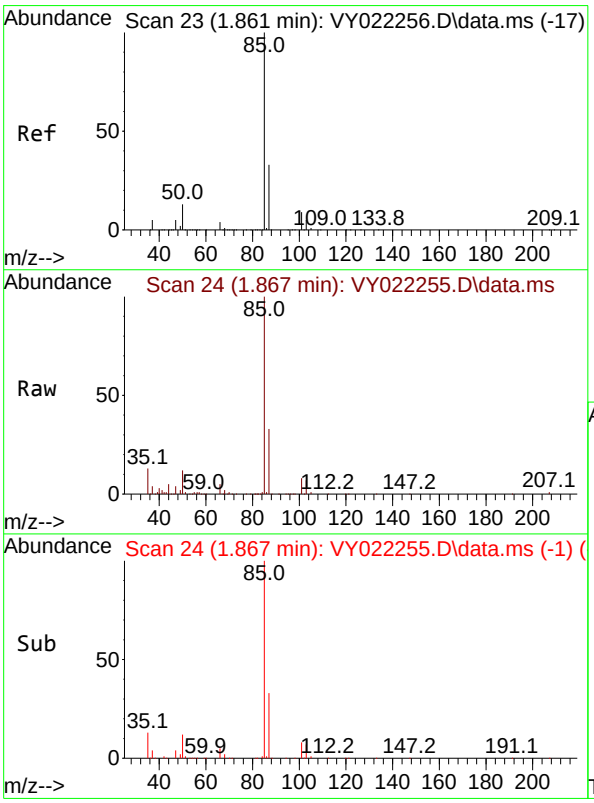
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.3 | 44.2 | 66.4 |

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

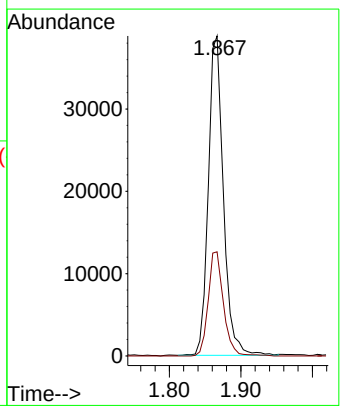


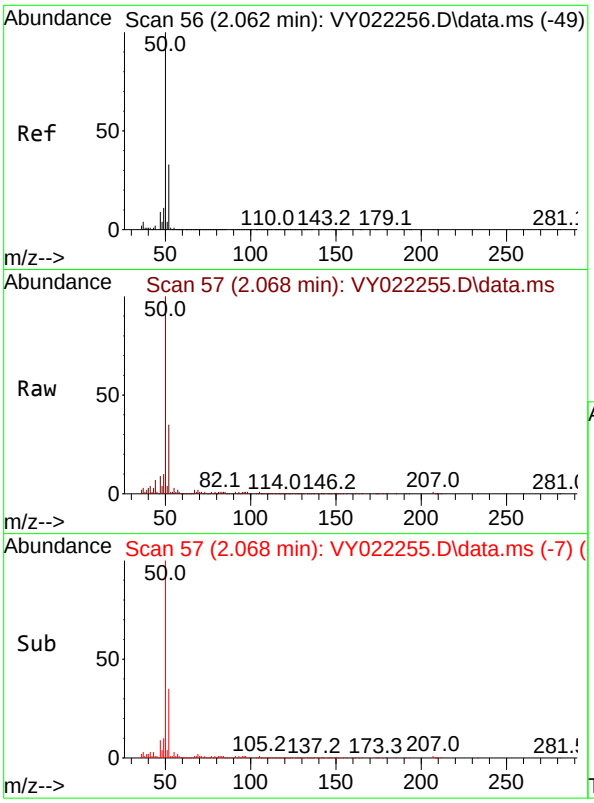




#2
Dichlorodifluoromethane
Concen: 20.753 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 85 Resp: 56737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.6 | 16.5 | 49.5 |






#3
Chloromethane
Concen: 21.008 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

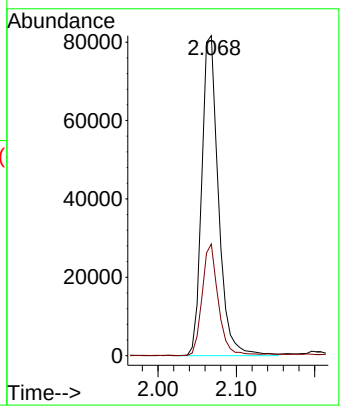
Tgt Ion: 50 Resp: 12081

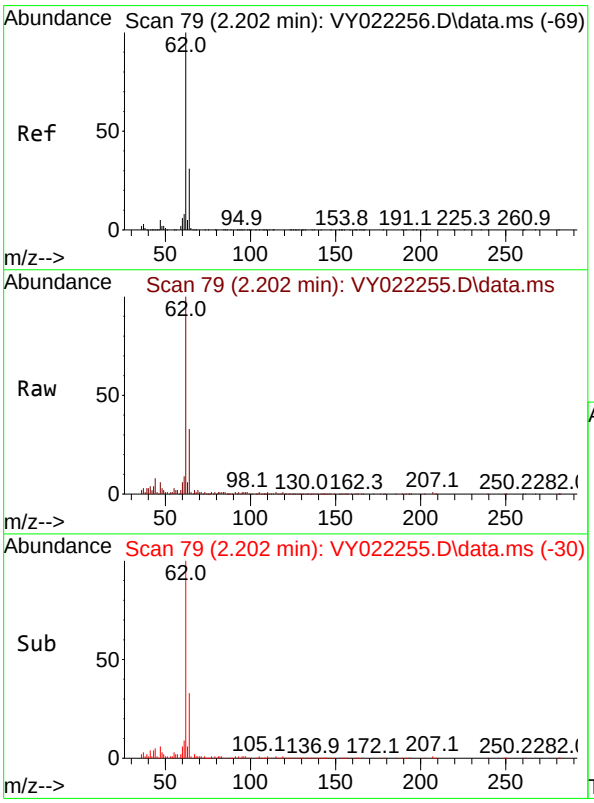
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.9 | 26.5 | 39.7 |

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

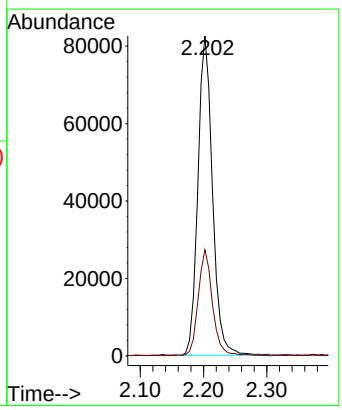


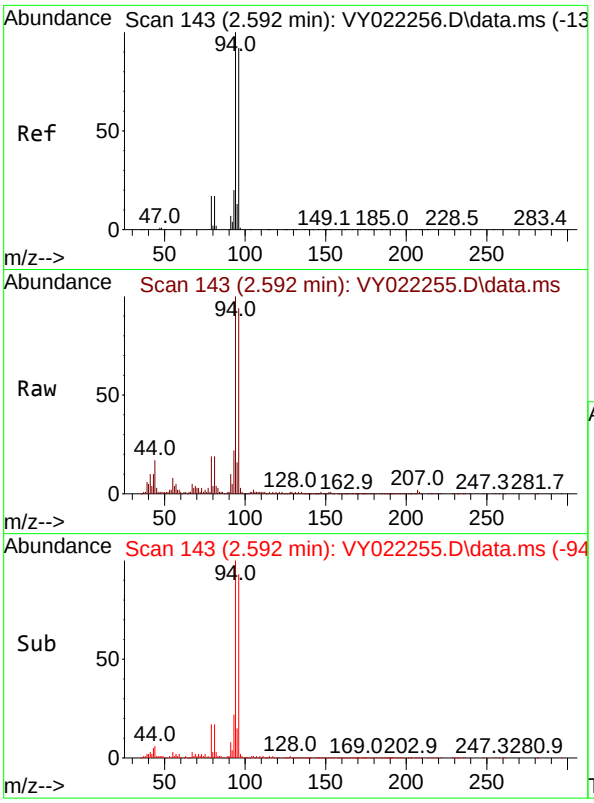




#4
Vinyl Chloride
Concen: 20.623 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 62 Resp: 132511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.0 | 24.5 | 36.7 |

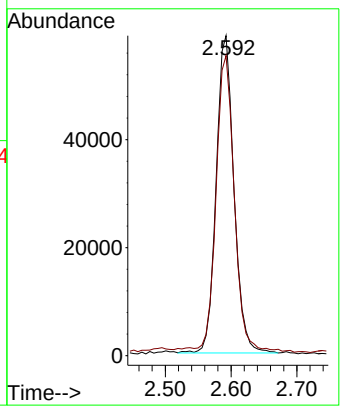





#5
Bromomethane
Concen: 21.194 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 94 Resp: 11085

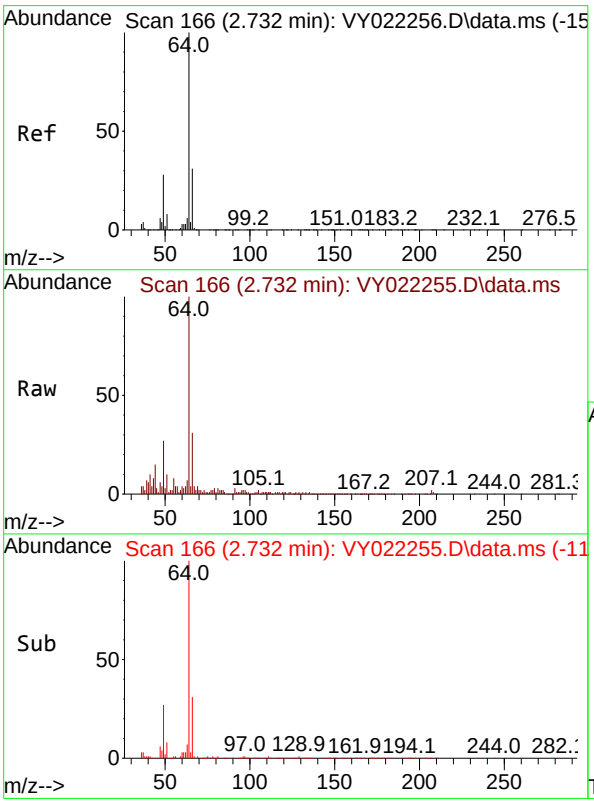
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.6 | 73.4 | 110.0 |




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

**Manual Integrations**
**APPROVED**

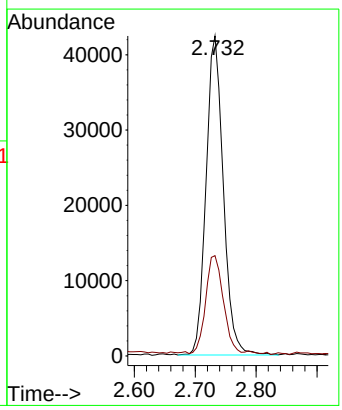
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

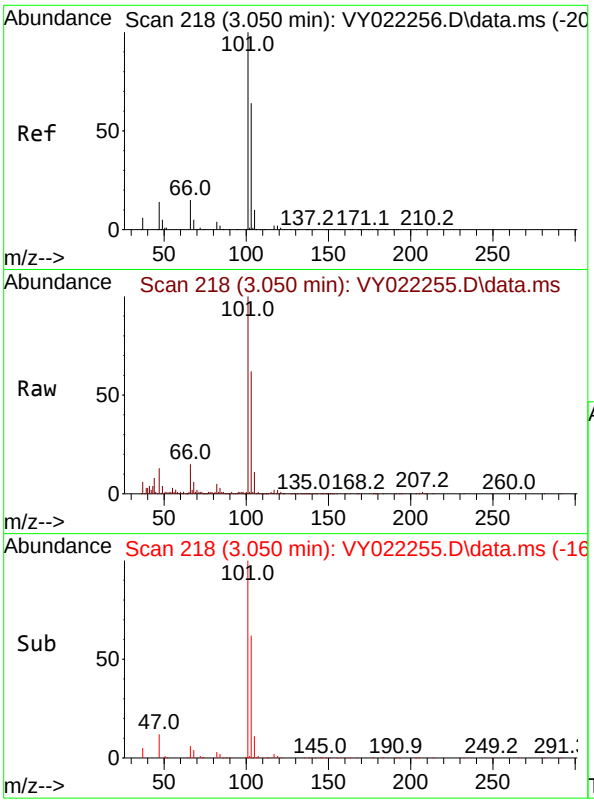



#6
Chloroethane
Concen: 20.877 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 64 Resp: 83451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.4 | 24.8 | 37.2 |

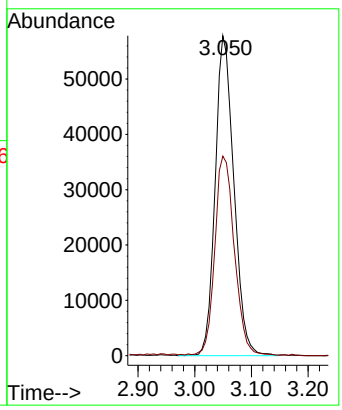





#7
Trichlorofluoromethane
Concen: 20.295 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:101 Resp: 13202

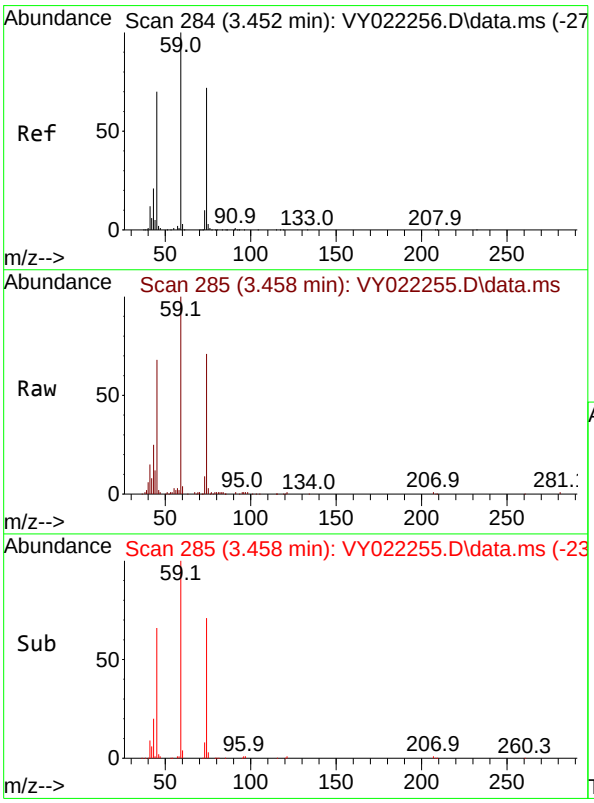
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.2 | 51.7 | 77.5 |




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

**Manual Integrations**
**APPROVED**

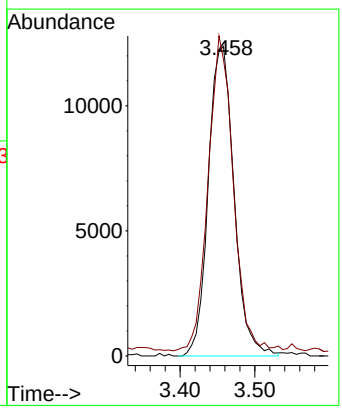
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

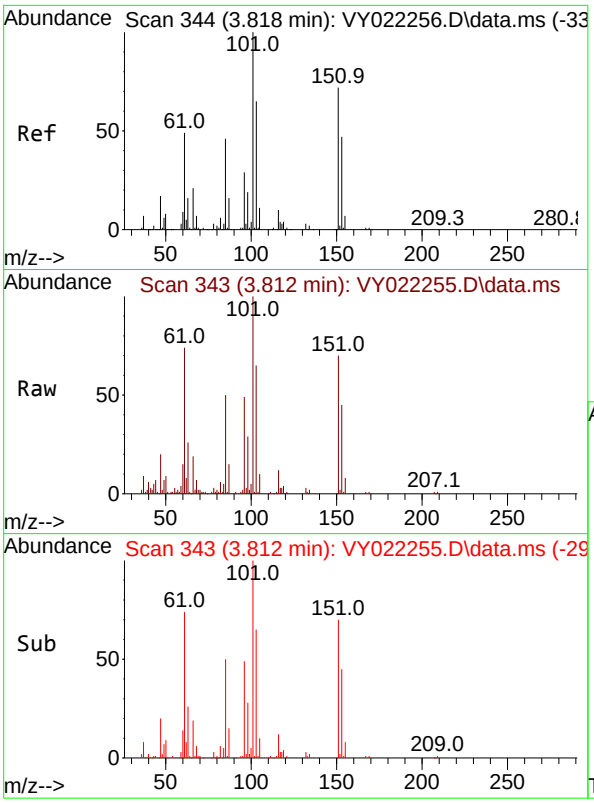



#8
Diethyl Ether
Concen: 18.993 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 74 Resp: 29651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 99.0 | 48.6 | 145.8 |

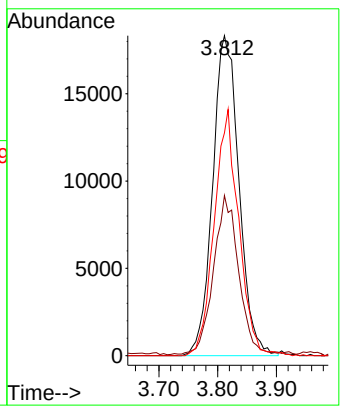





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.187 ug/l
RT: 3.812 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:101 Resp: 5701

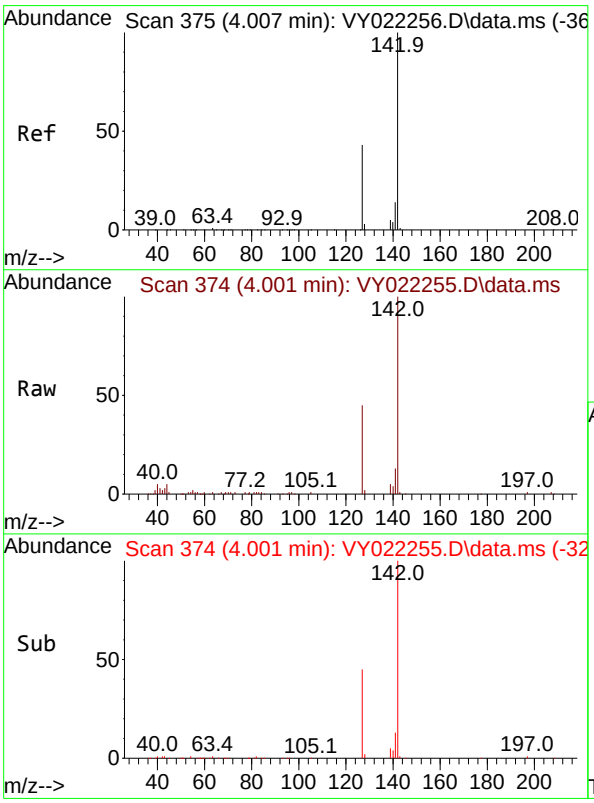
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.7 | 38.6 | 58.0 |
| 151 | 71.9 | 59.7 | 89.5 |




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

**Manual Integrations APPROVED**

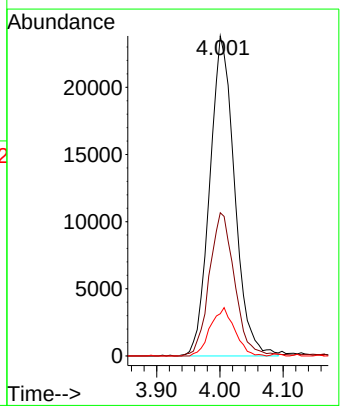
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

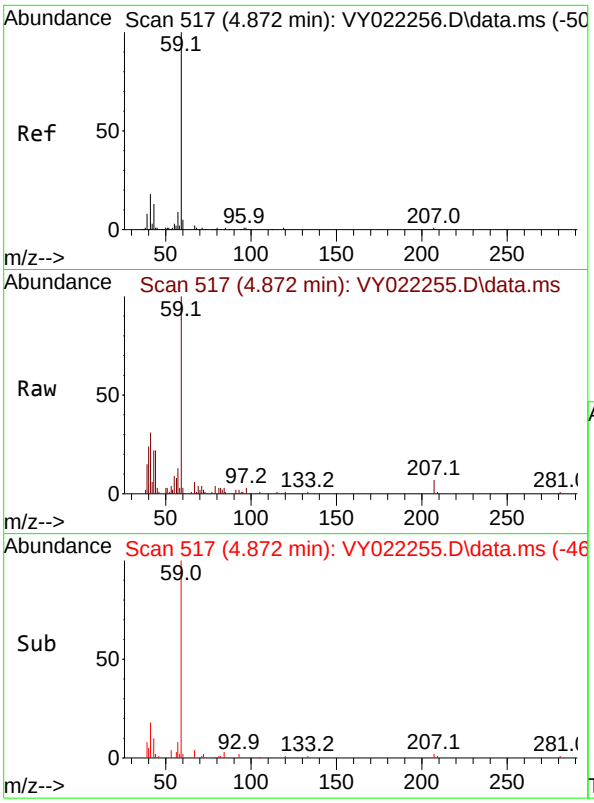



#10
Methyl Iodide
Concen: 19.891 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:142 Resp: 65018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.5 | 35.7 | 53.5 |
| 141 | 14.8 | 11.1 | 16.7 |

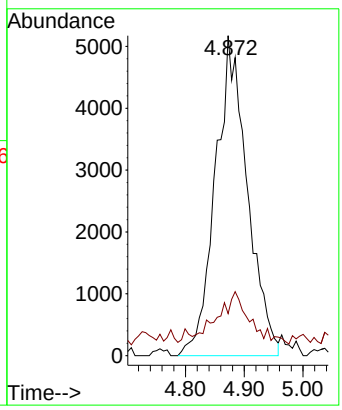





#11
Tert butyl alcohol
Concen: 89.565 ug/l
RT: 4.872 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 59 Resp: 1958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 16.5 | 0.0 | 0.0 |




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

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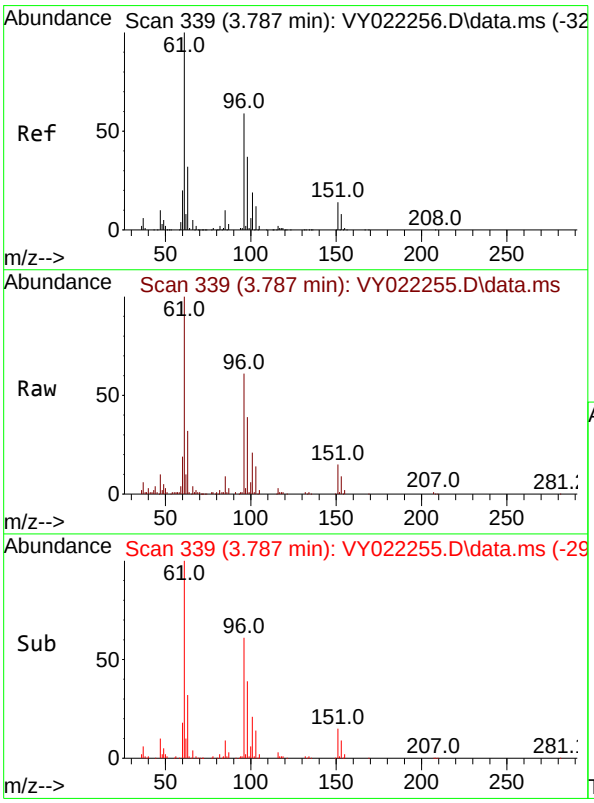
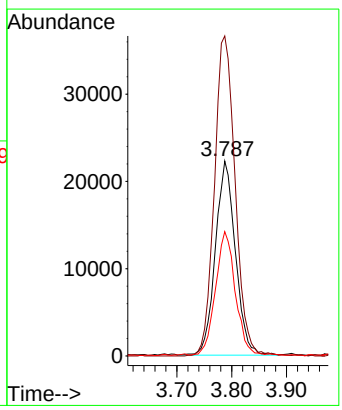
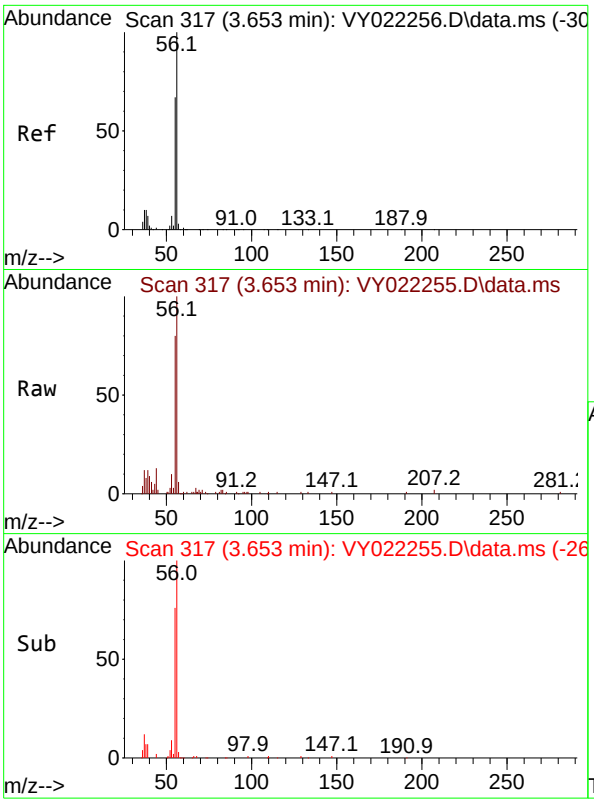



#12
1,1-Dichloroethene
Concen: 20.206 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 96 Resp: 56630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 164.8 | 134.9 | 202.3 |
| 98 | 63.5 | 49.9 | 74.9 |

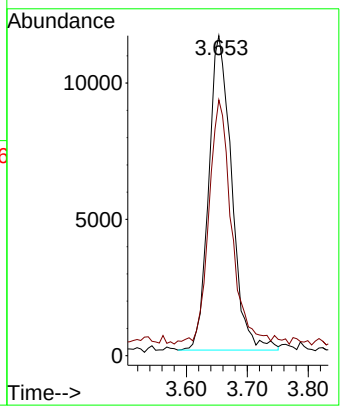





#13
Acrolein
Concen: 94.178 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 56 Resp: 3010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 76.6 | 55.6 | 83.4 |




**Instrument :**
MSVOA_Y
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VSTDICC020

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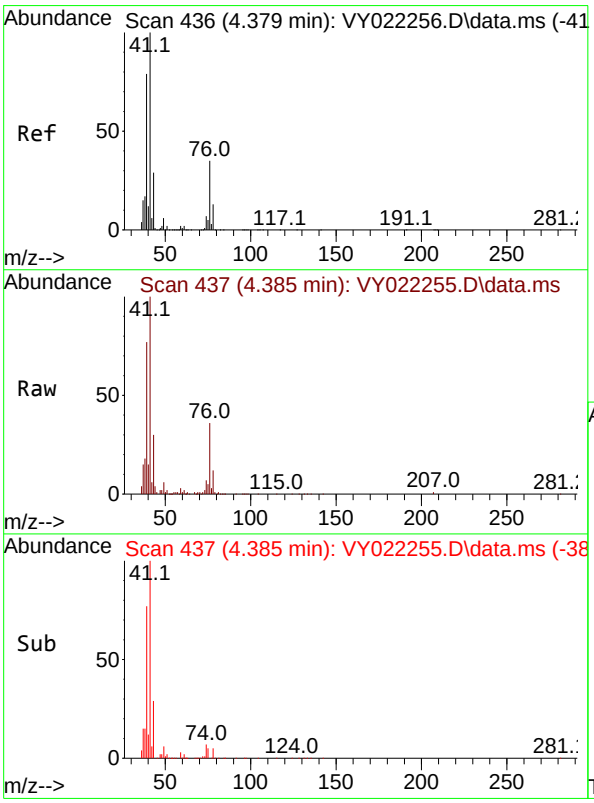
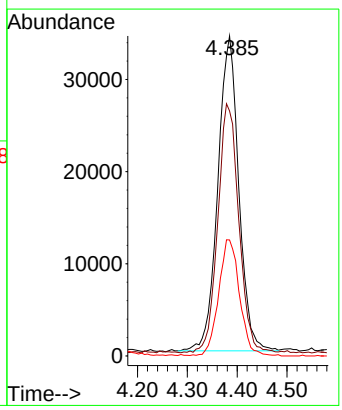
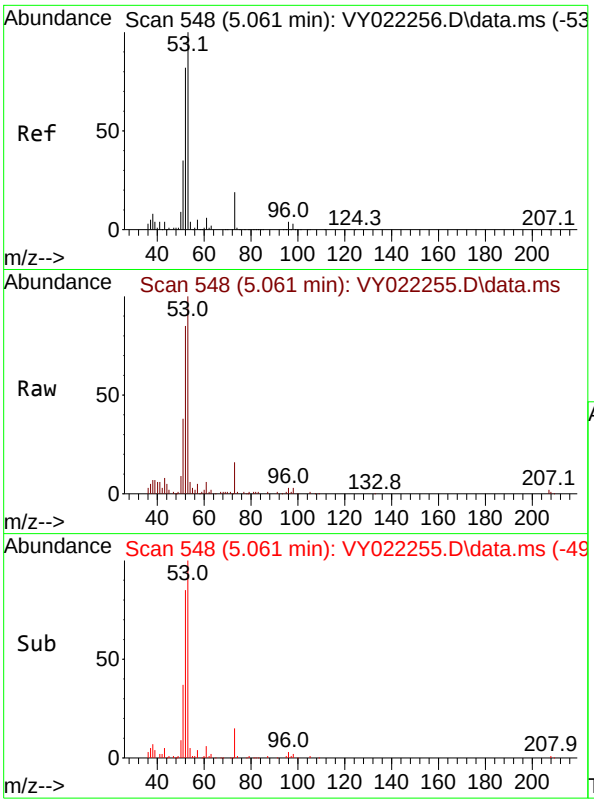



#14
Allyl chloride
Concen: 20.244 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 41 Resp: 99483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 79.7 | 63.4 | 95.0 |
| 76 | 37.1 | 29.5 | 44.3 |

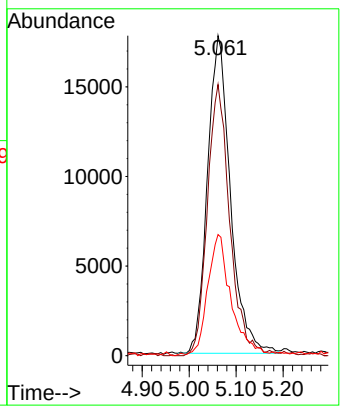





#15
Acrylonitrile
Concen: 93.456 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 53 Resp: 6011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.1 | 66.1 | 99.1 |
| 51 | 37.6 | 30.0 | 45.0 |

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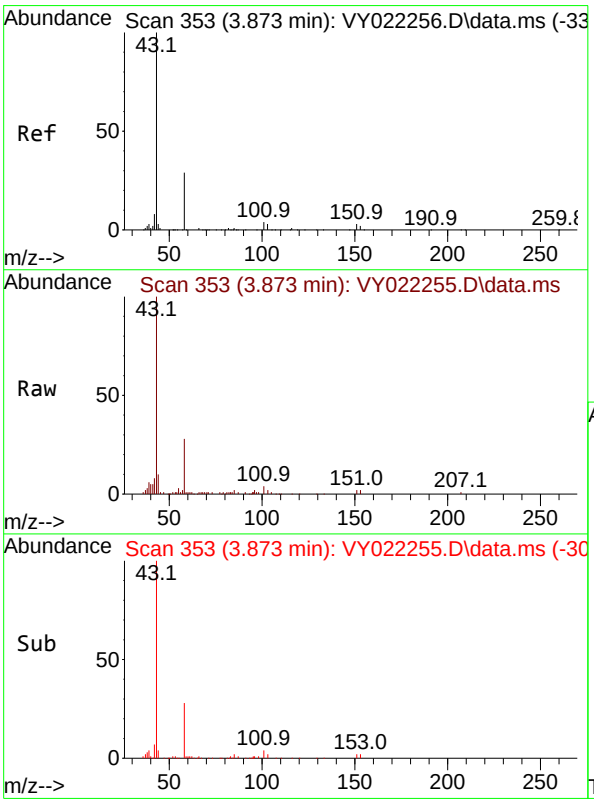
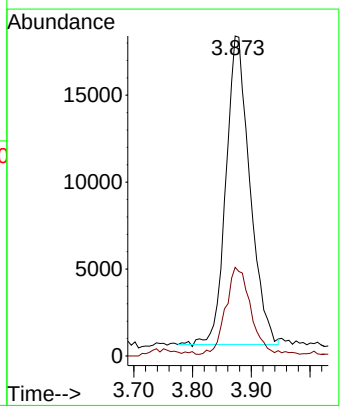
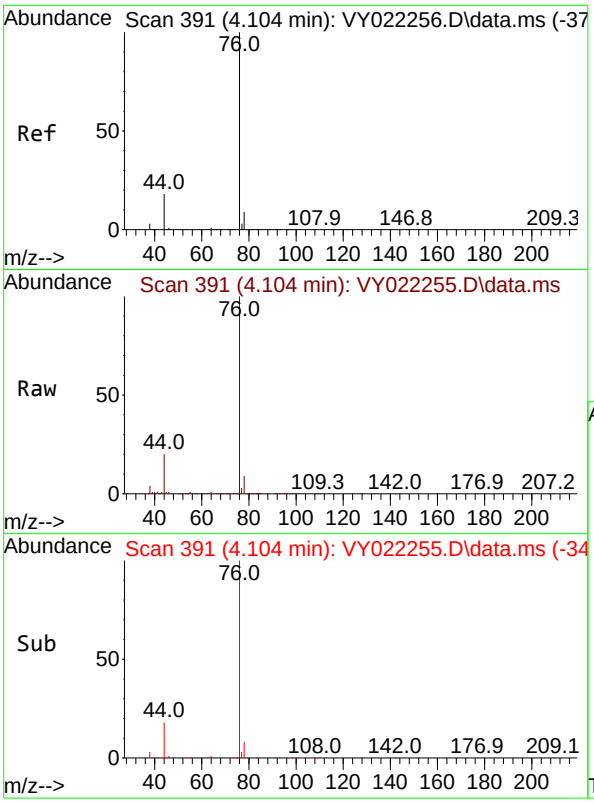



#16
Acetone
Concen: 93.491 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 50198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.5 | 23.6 | 35.4 |

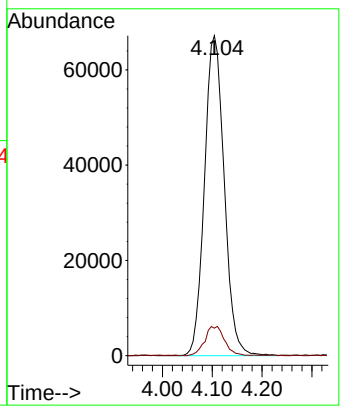





#17
Carbon Disulfide
Concen: 20.228 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 76 Resp: 18486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.6 | 7.2 | 10.8 |




**Instrument :**
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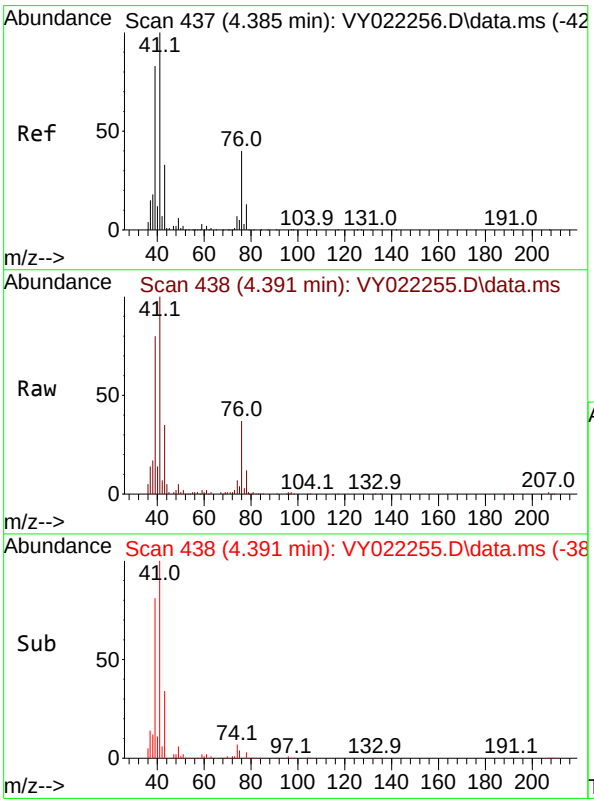
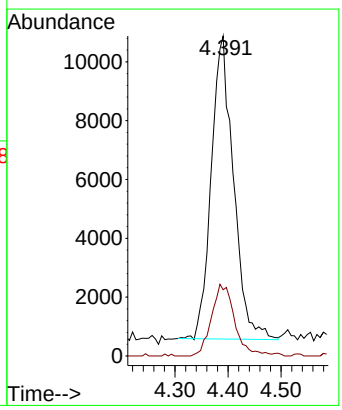
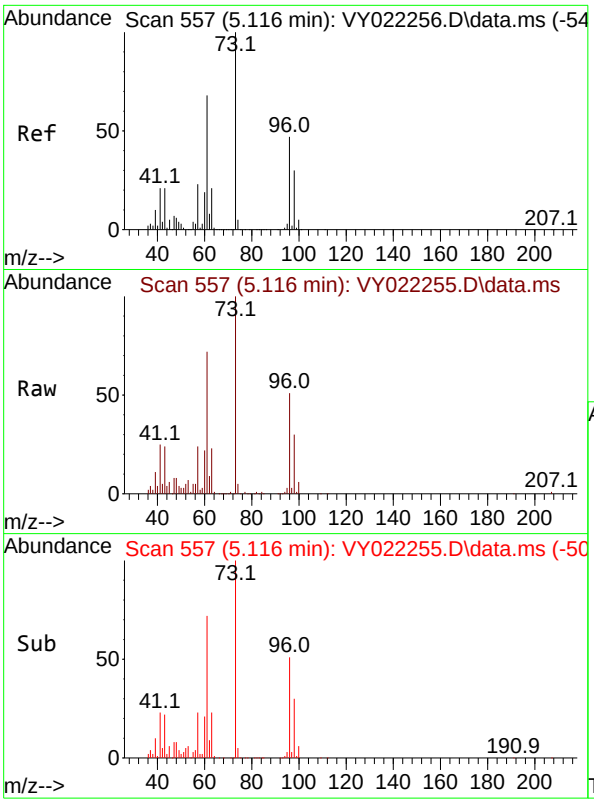



#18
Methyl Acetate
Concen: 18.344 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 29969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.6 | 18.2 | 27.4 |

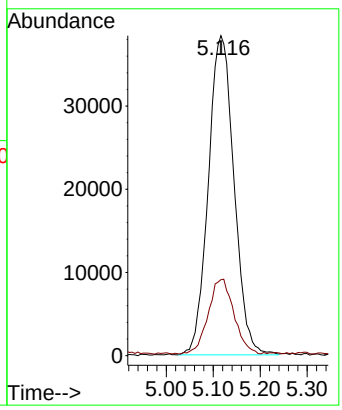





#19
Methyl tert-butyl Ether
Concen: 18.890 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 73 Resp: 14597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.2 | 18.6 | 28.0 |




**Instrument :**
MSVOA_Y
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VSTDICC020

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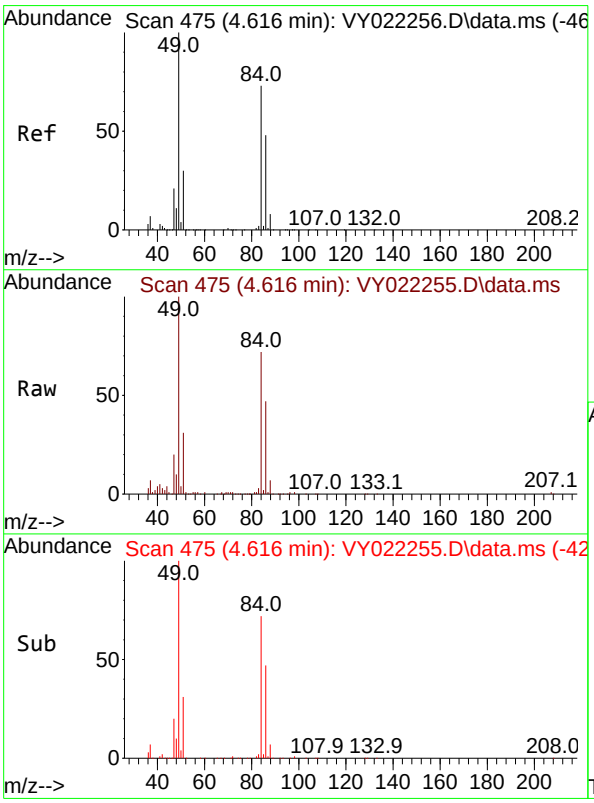
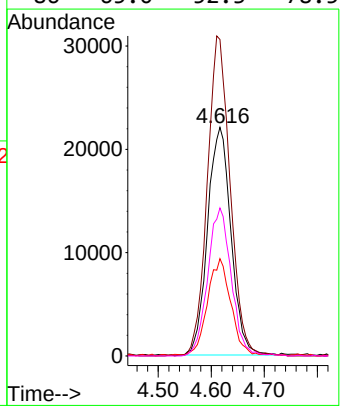
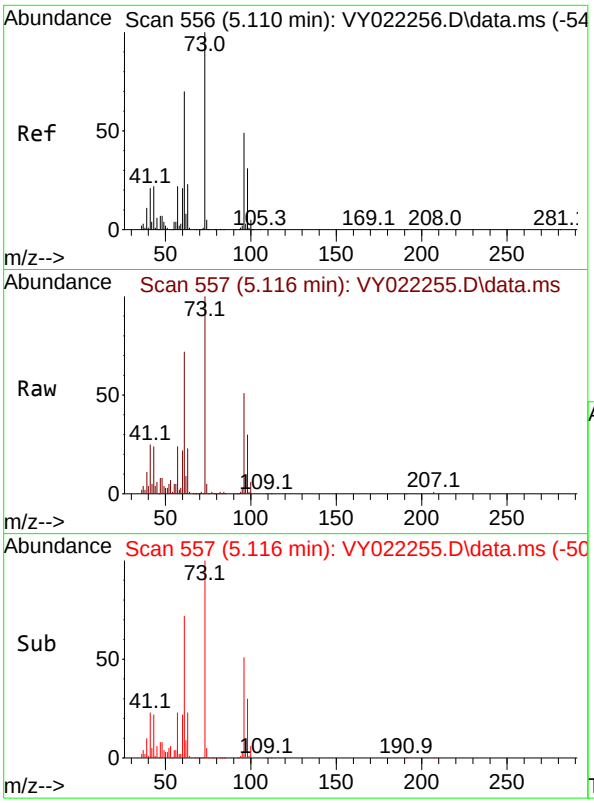



#20
Methylene Chloride
Concen: 19.510 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 84 Resp: 67687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 138.7 | 109.6 | 164.4 |
| 51 | 42.3 | 32.4 | 48.6 |
| 86 | 65.0 | 52.3 | 78.5 |

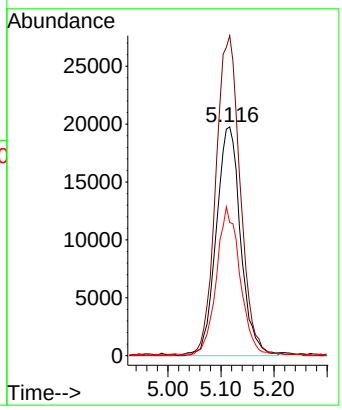





#21
trans-1,2-Dichloroethene
Concen: 20.422 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 96 Resp: 6317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.8 | 113.4 | 170.0 |
| 98 | 57.5 | 50.9 | 76.3 |




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

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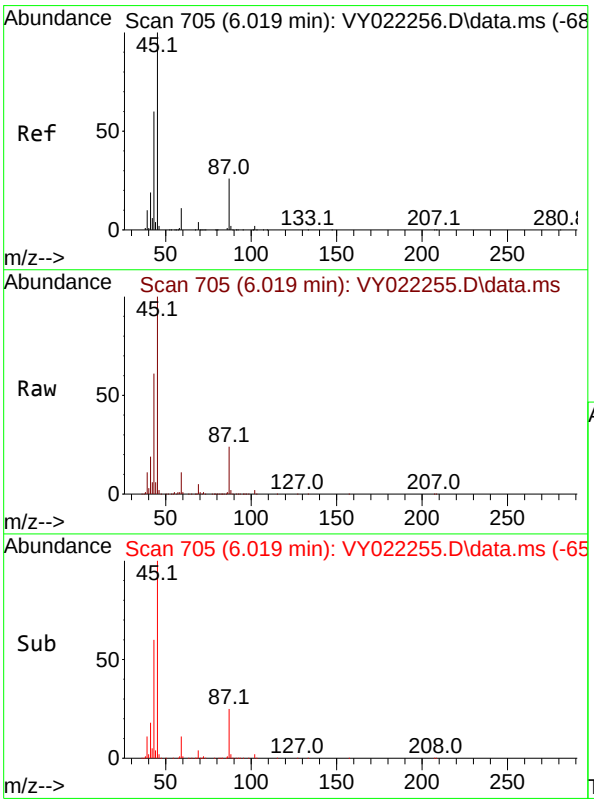
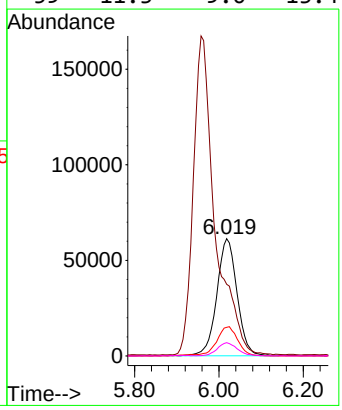
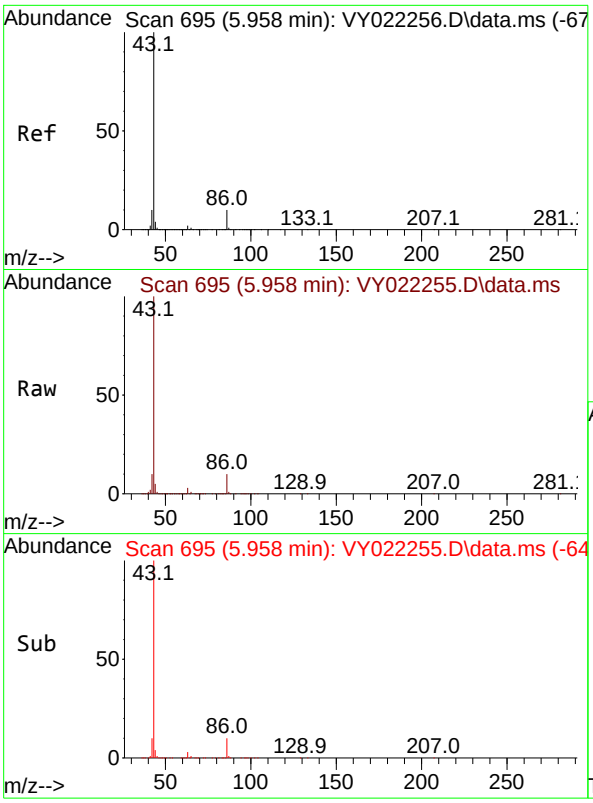



#22
Diisopropyl ether
Concen: 19.558 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 45 Resp: 202960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.9 | 48.2 | 72.2 |
| 87 | 24.5 | 21.4 | 32.0 |
| 59 | 11.3 | 9.0 | 13.4 |

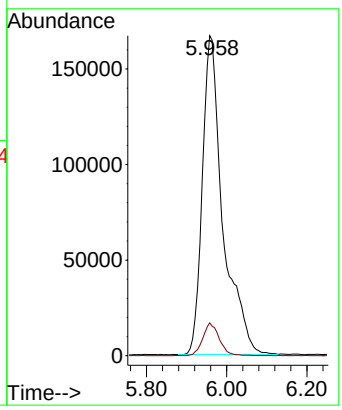





#23
Vinyl Acetate
Concen: 94.748 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 59401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.3 | 7.8 | 11.8 |




**Instrument :**
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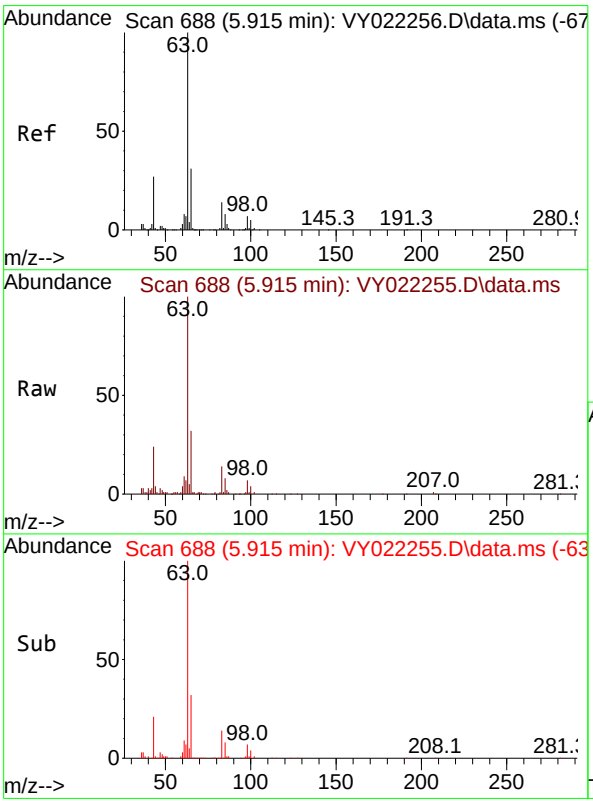
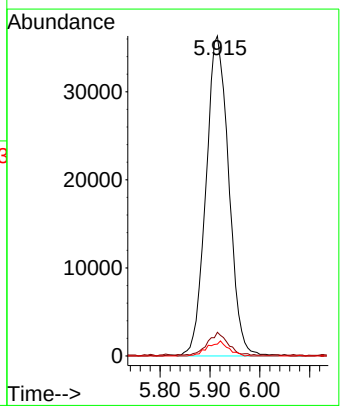
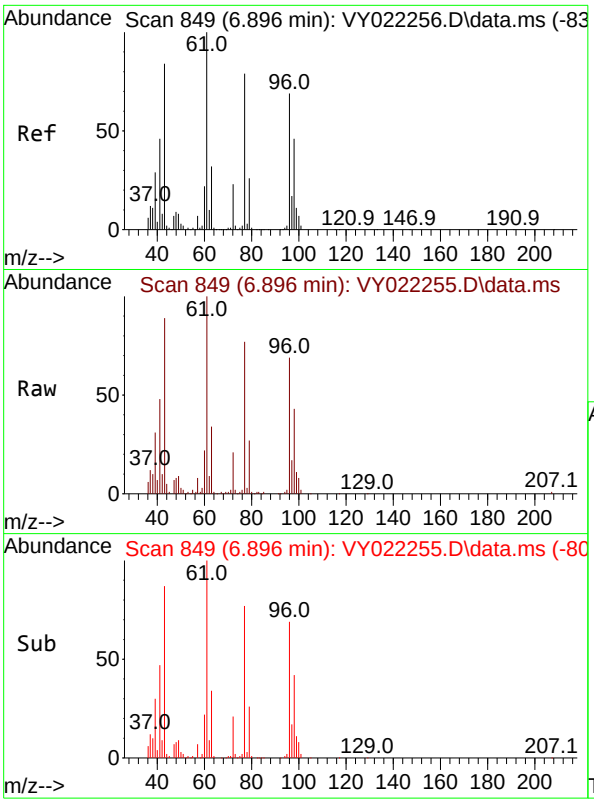



#24
1,1-Dichloroethane
Concen: 19.873 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 63 Resp: 115217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.0 | 3.5 | 10.5 |
| 100 | 3.7 | 2.4 | 7.2 |






#25
2-Butanone
Concen: 92.157 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 8276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.1 | 22.1 | 33.1 |

**Instrument :**
MSVOA_Y
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VSTDICC020

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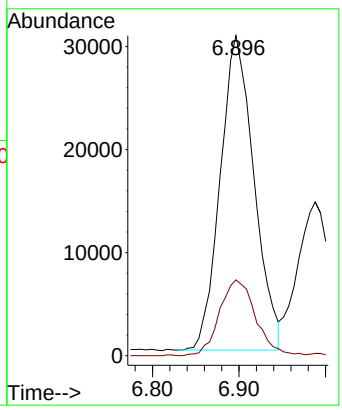
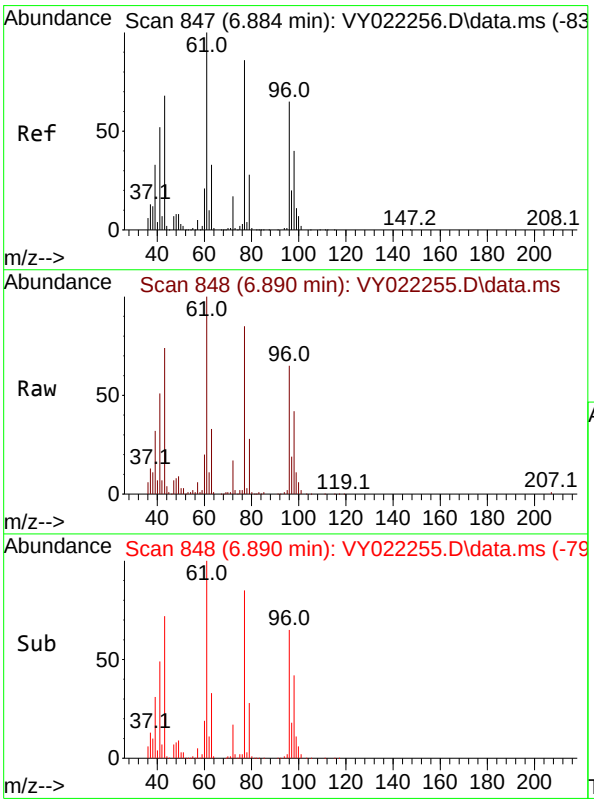
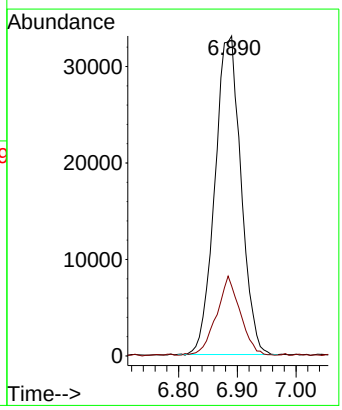


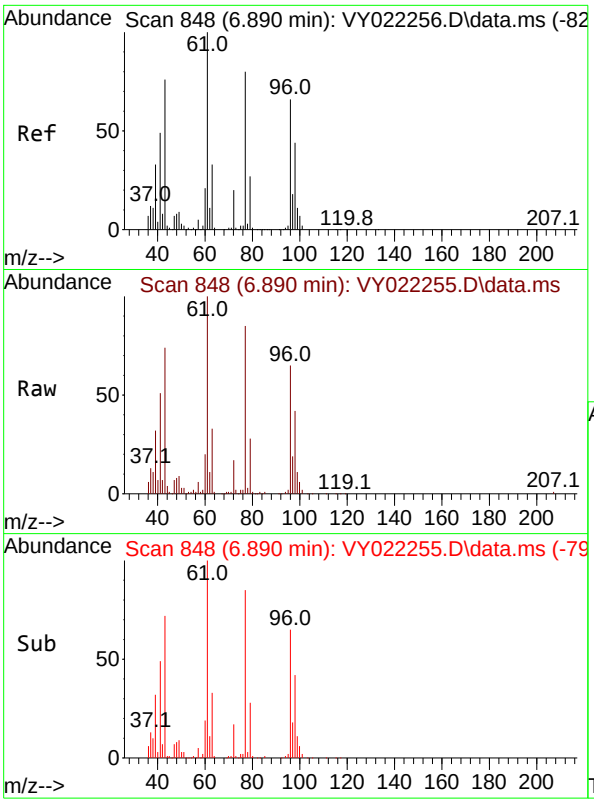




#26
2,2-Dichloropropane
Concen: 19.727 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 77 Resp: 101725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.6 | 11.2 | 33.5 |

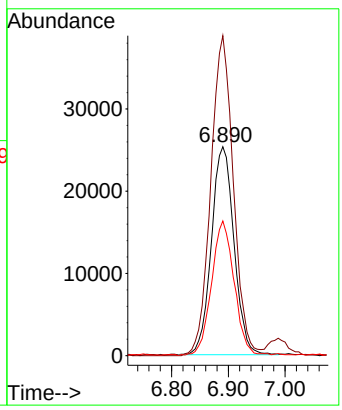





#27
cis-1,2-Dichloroethene
Concen: 19.611 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 96 Resp: 7000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 153.9 | 0.0 | 302.6 |
| 98 | 64.1 | 0.0 | 128.8 |

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VSTDICC020

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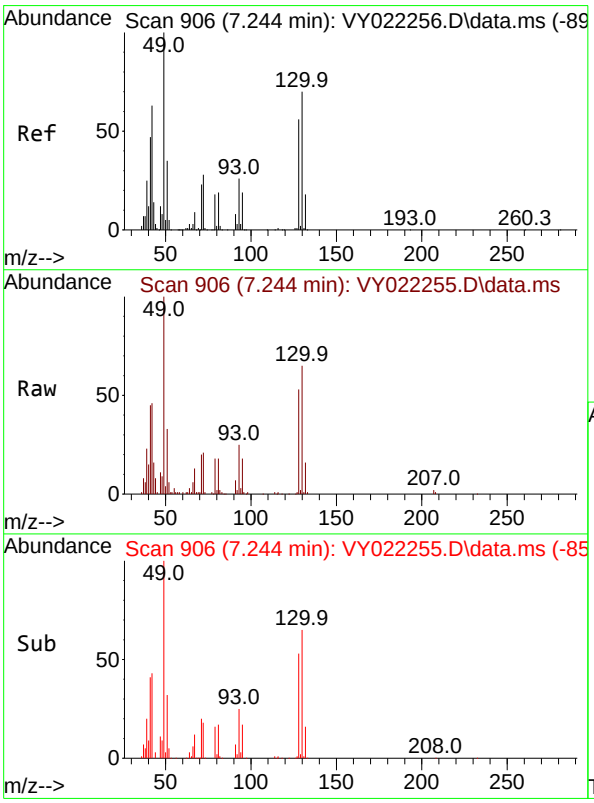
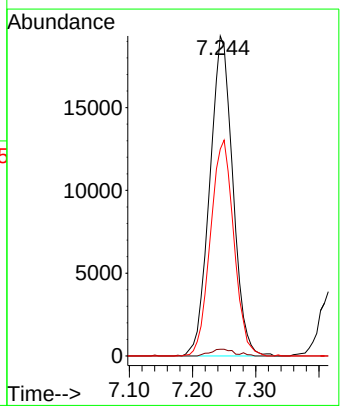
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

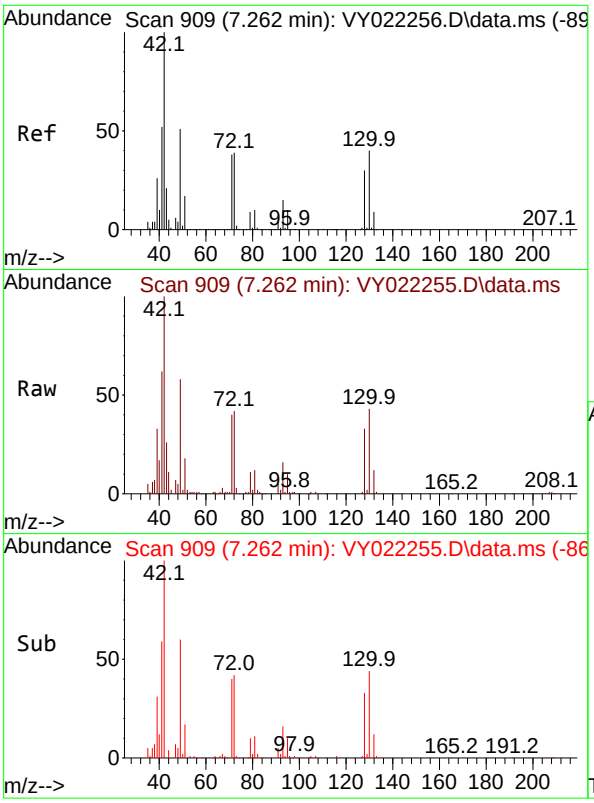



#28
Bromochloromethane
Concen: 19.787 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 49 Resp: 48933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 3.6 |
| 130 | 68.4 | 54.7 | 82.1 |

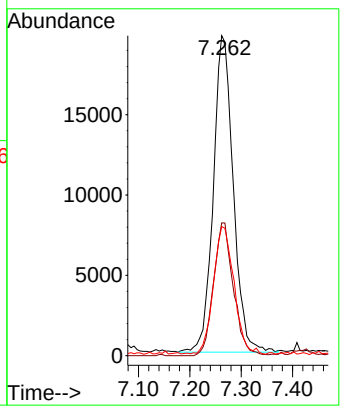





#29
Tetrahydrofuran
Concen: 92.122 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 42 Resp: 5322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.6 | 33.8 | 50.6 |
| 71 | 41.5 | 31.5 | 47.3 |




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

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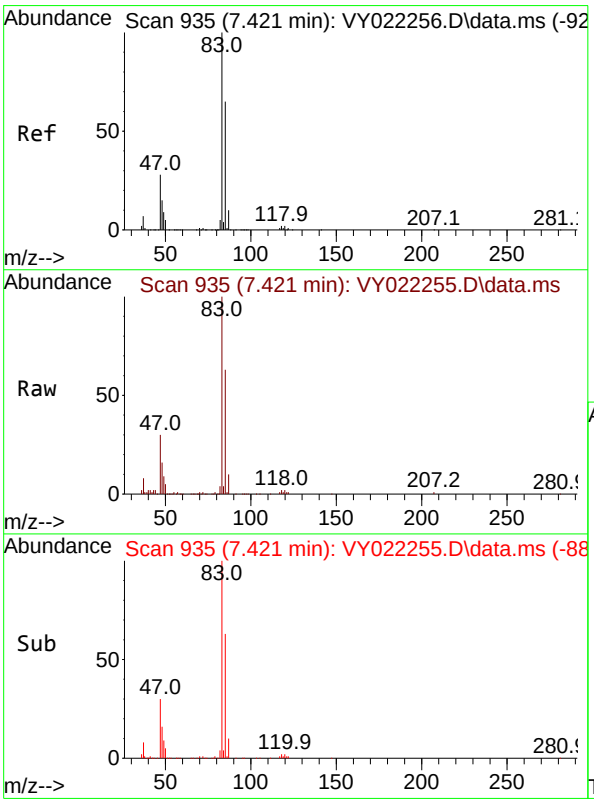
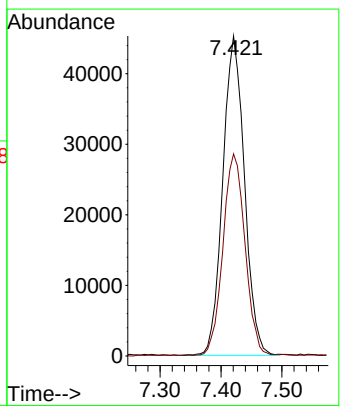
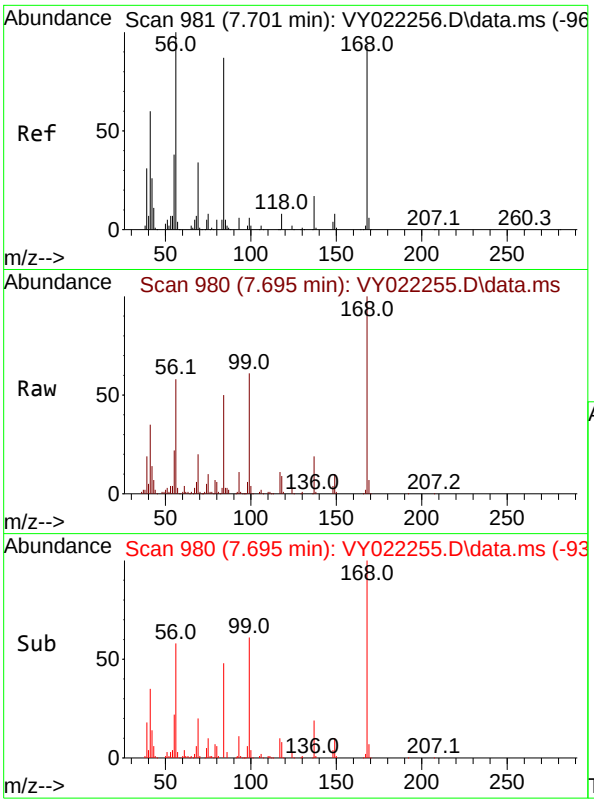



#30
Chloroform
Concen: 20.107 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 83 Resp: 111815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.1 | 51.8 | 77.8 |

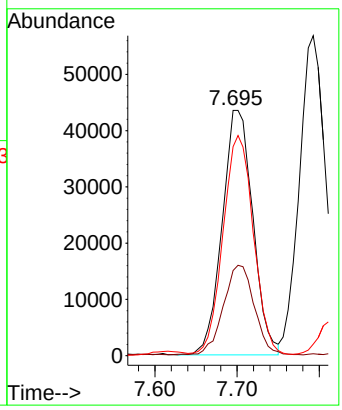





#31
Cyclohexane
Concen: 19.486 ug/l
RT: 7.695 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 56 Resp: 11287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.2 | 27.4 | 41.2 |
| 84 | 84.0 | 70.0 | 105.0 |




**Instrument :**
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**Manual Integrations**
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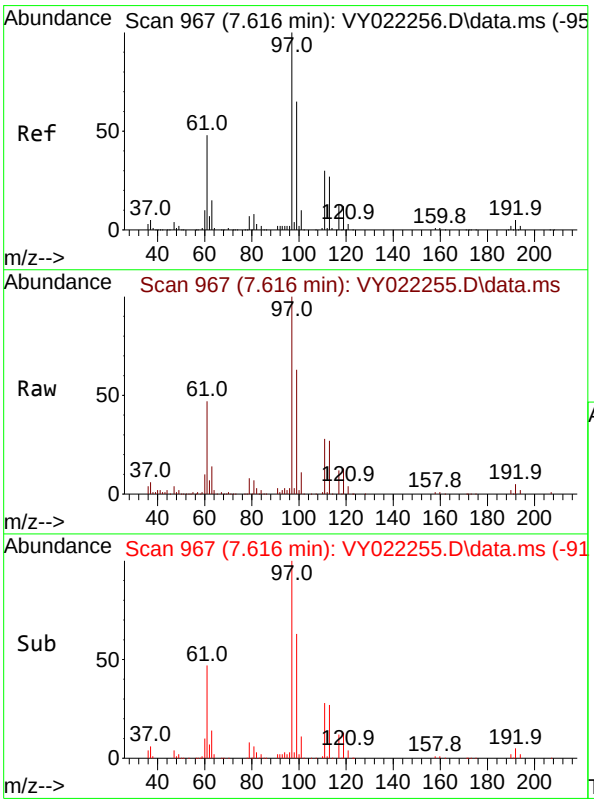
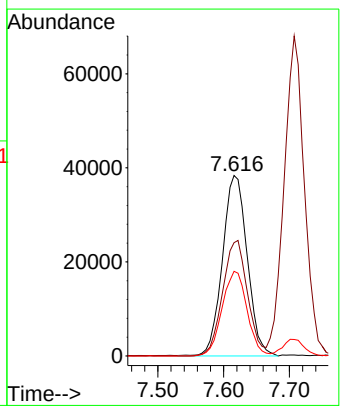
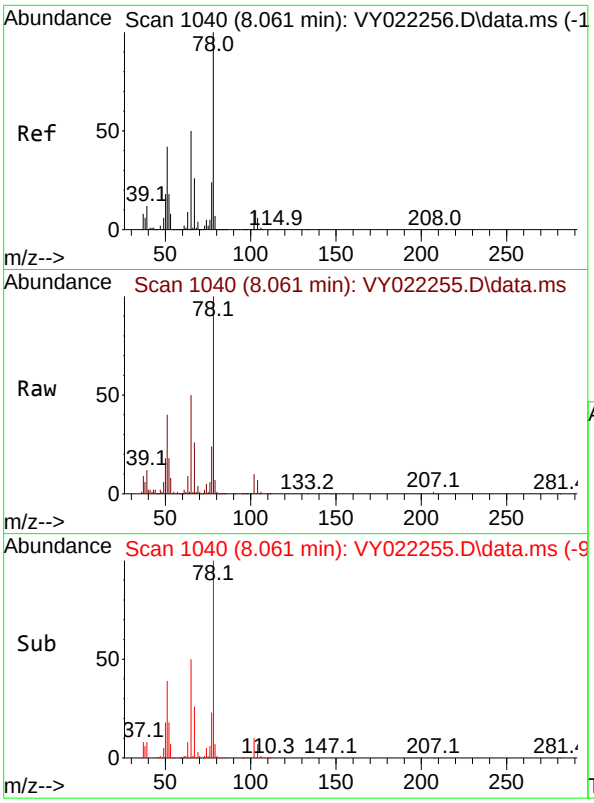



#32
1,1,1-Trichloroethane
Concen: 19.721 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 97 Resp: 100618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.4 | 77.0 |
| 61 | 47.2 | 38.1 | 57.1 |

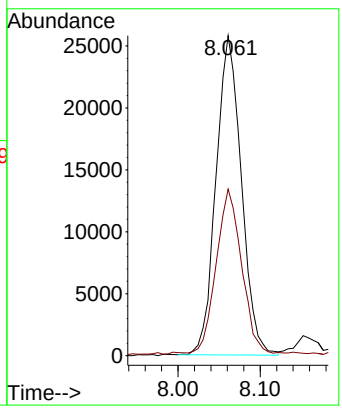





#33
1,2-Dichloroethane-d4
Concen: 19.284 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 65 Resp: 5522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.9 | 0.0 | 104.6 |




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

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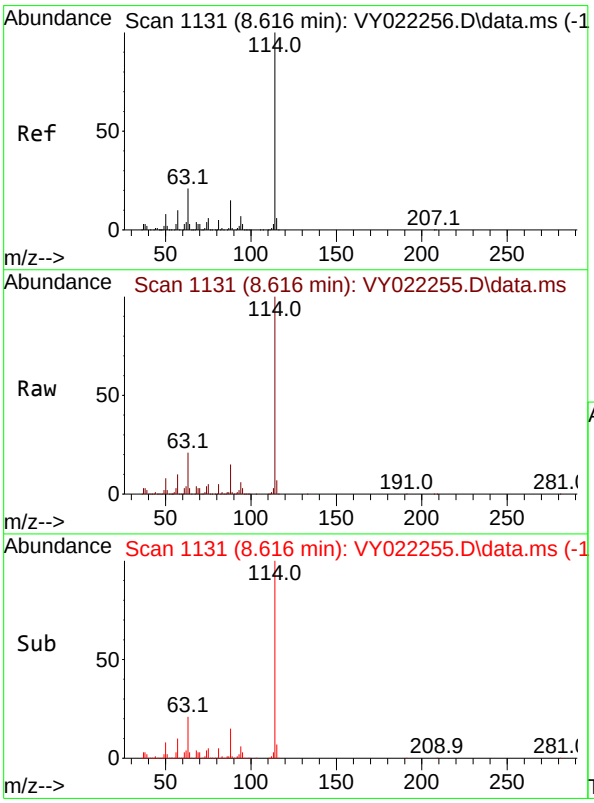
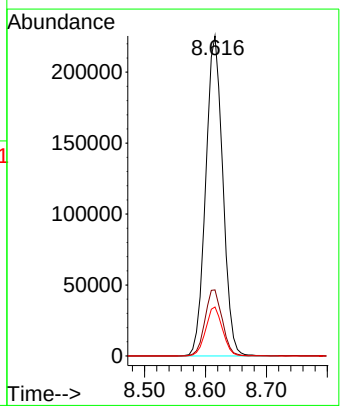
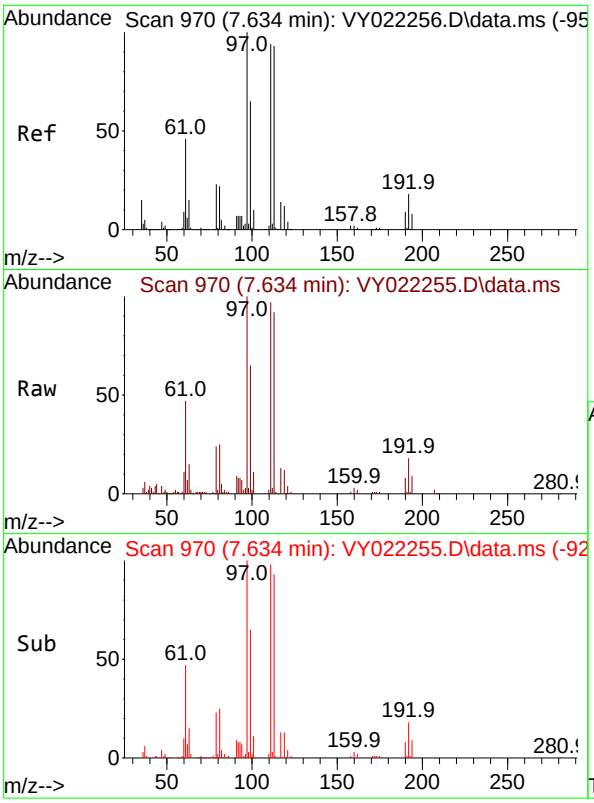



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:114 Resp: 439816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.6 | 0.0 | 41.0 |
| 88 | 15.3 | 0.0 | 29.4 |

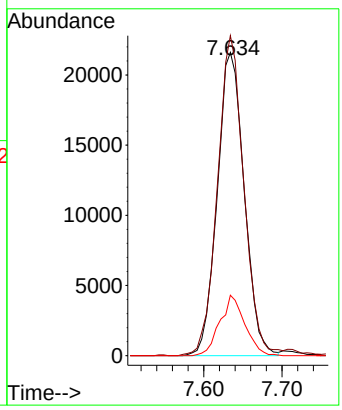





#35
Dibromofluoromethane
Concen: 19.683 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:113 Resp: 5167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 82.6 | 123.8 |
| 192 | 18.5 | 15.2 | 22.8 |




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

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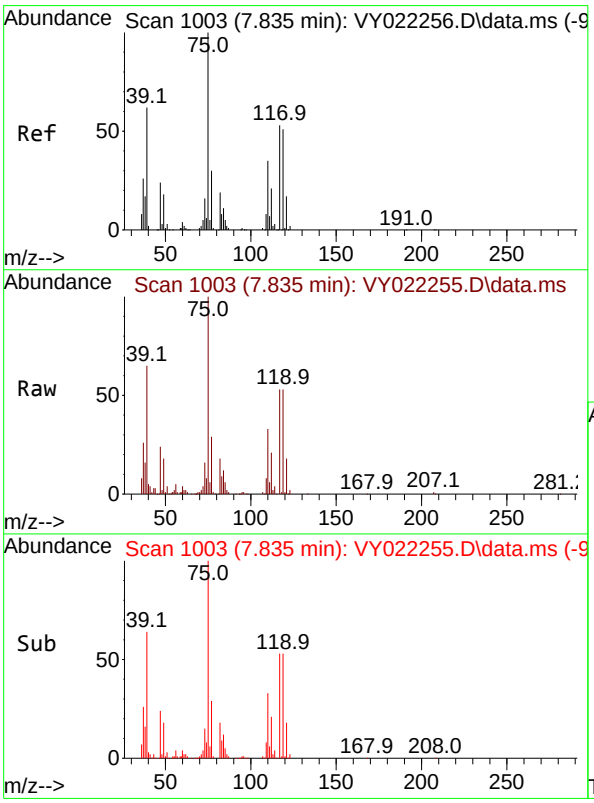
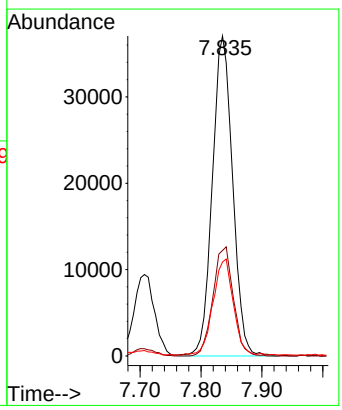
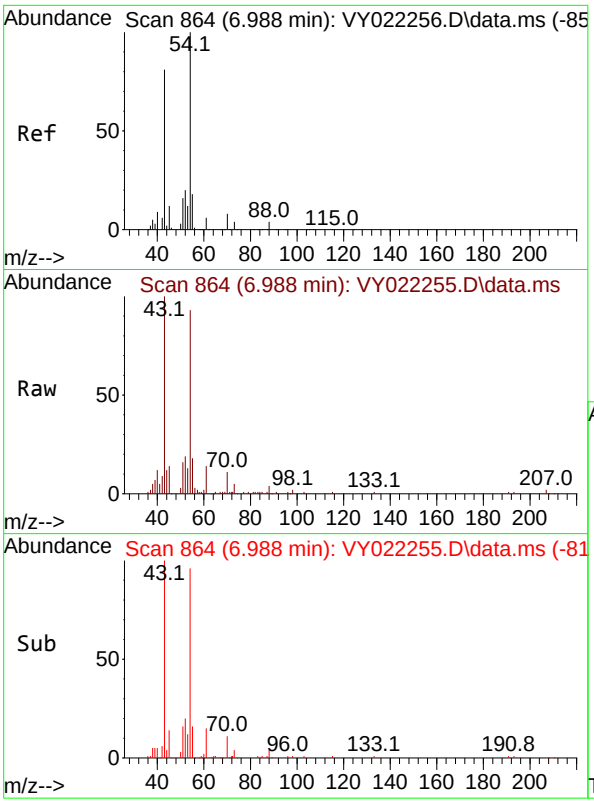



#36
1,1-Dichloropropene
Concen: 19.841 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 85789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.2 | 16.6 | 49.8 |
| 77 | 30.2 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 18.497 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 3848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 12.6 | 10.2 | 15.2 |
| 70 | 9.8 | 7.6 | 11.4 |

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

**Manual Integrations**
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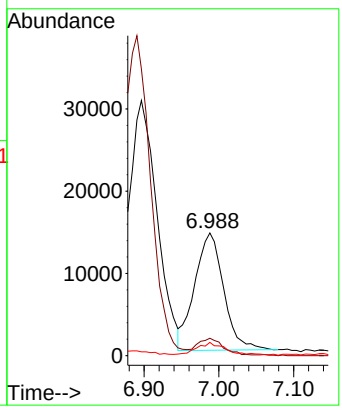
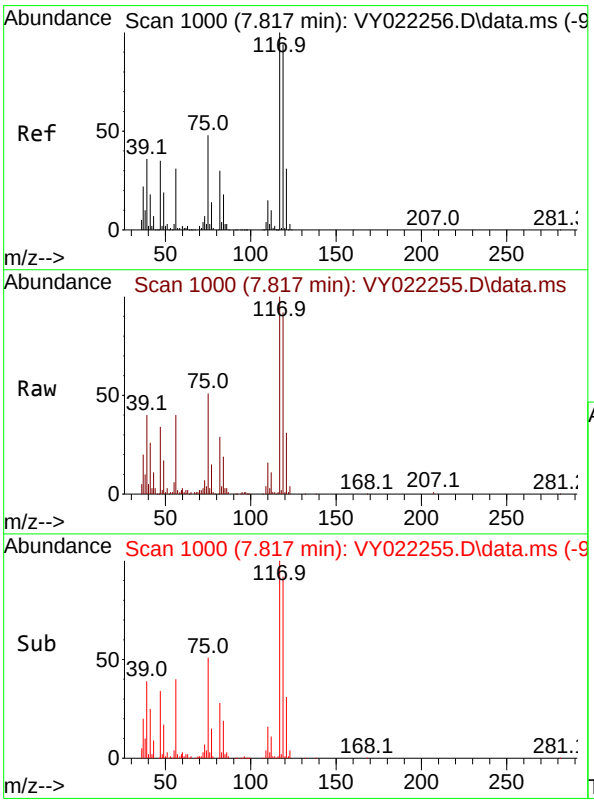
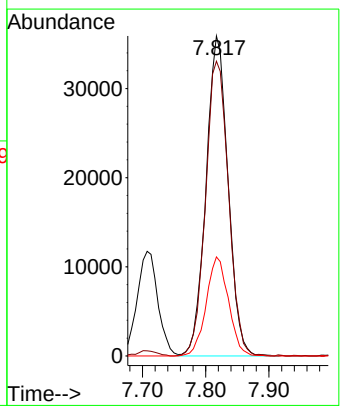


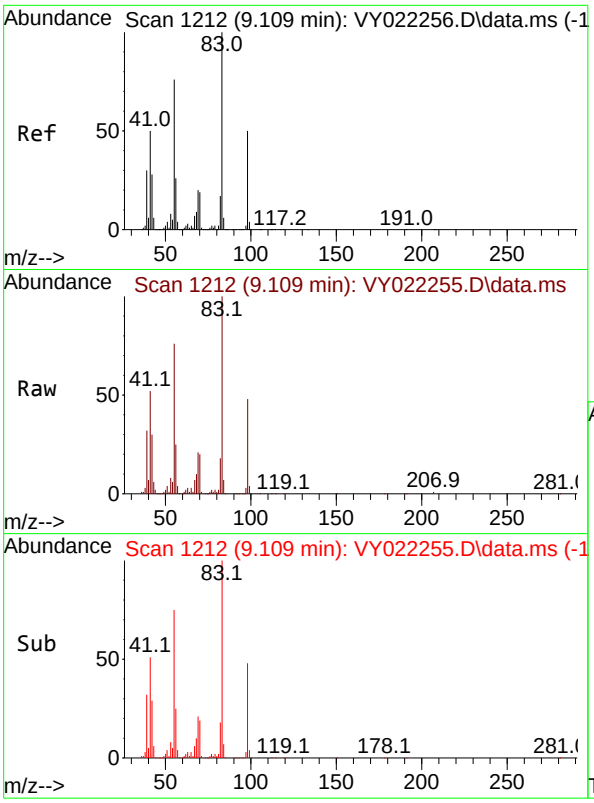




#38
Carbon Tetrachloride
Concen: 19.410 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:117 Resp: 86871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.9 | 75.3 | 112.9 |
| 121 | 31.0 | 24.7 | 37.1 |

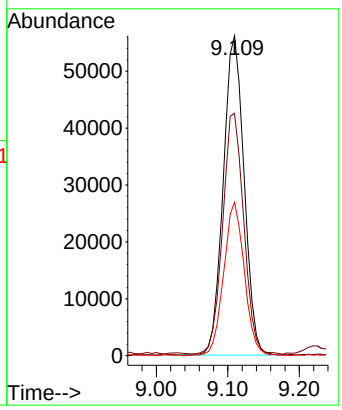





#39
Methylcyclohexane
Concen: 19.540 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 83 Resp: 11351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 75.2 | 60.6 | 90.8 |
| 98 | 47.9 | 40.0 | 60.0 |




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

**Manual Integrations APPROVED**

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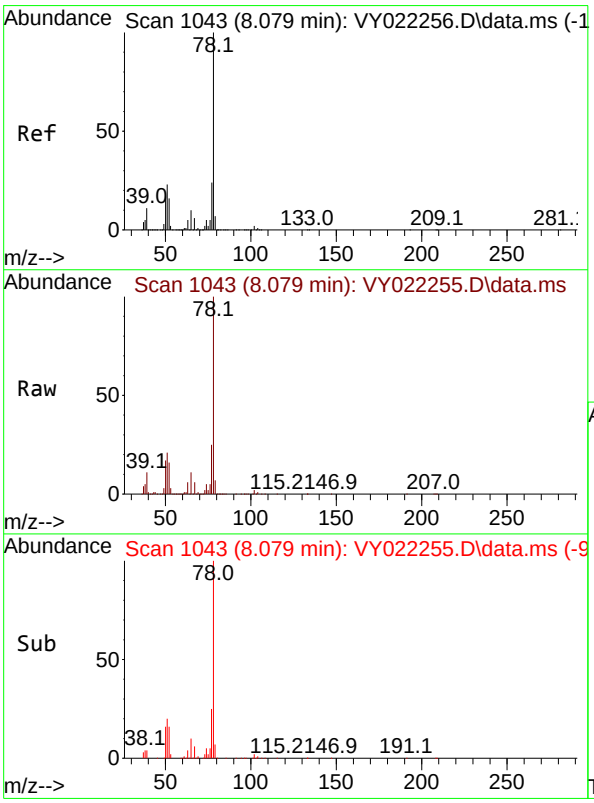
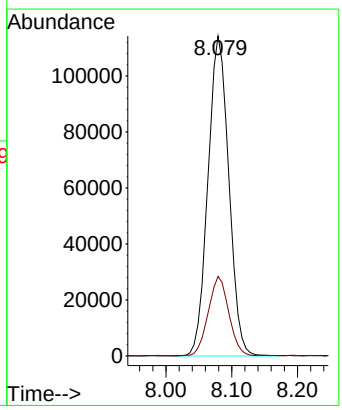
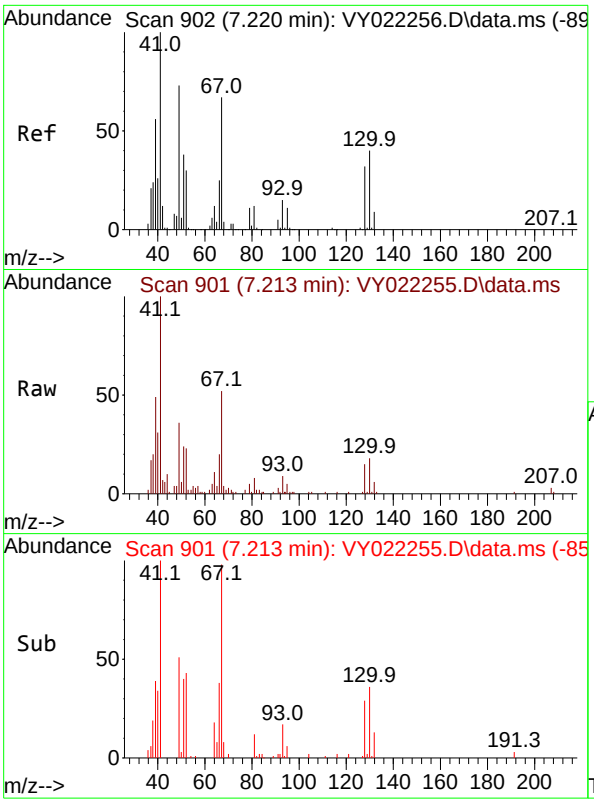



#40
Benzene
Concen: 19.700 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 78 Resp: 252507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.8 | 18.9 | 28.3 |

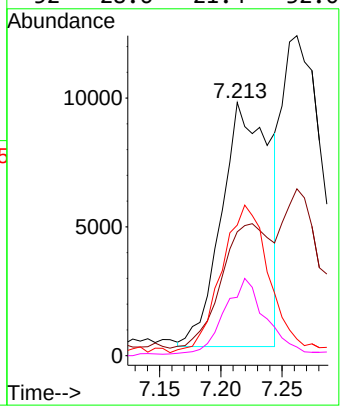





#41
Methacrylonitrile
Concen: 17.085 ug/l m
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 41 Resp: 2600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.1 | 39.1 | 58.7 |
| 67 | 60.9 | 47.1 | 70.7 |
| 52 | 28.6 | 21.4 | 32.0 |




**Instrument :**
MSVOA_Y
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VSTDICC020

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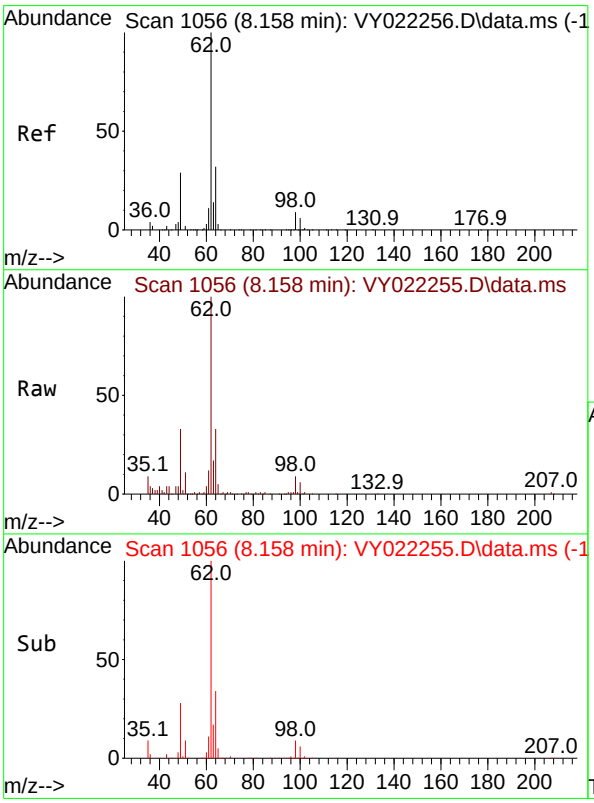
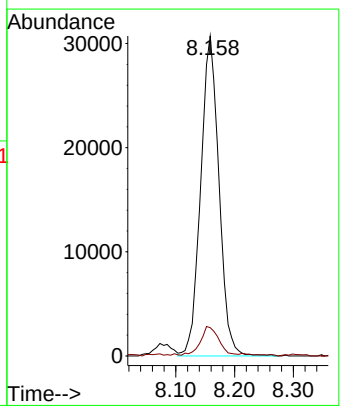
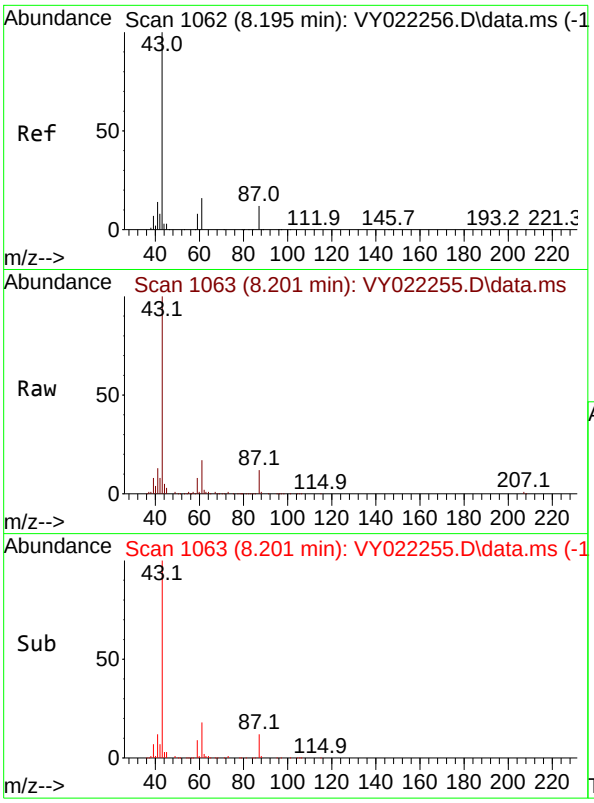



#42
1,2-Dichloroethane
Concen: 19.192 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 62 Resp: 66525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.8 | 0.0 | 18.4 |

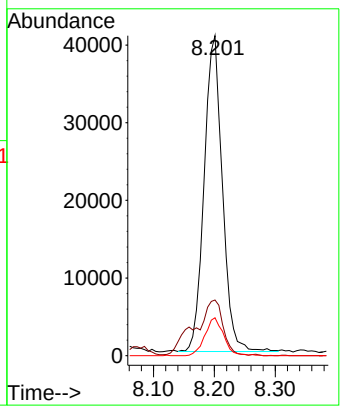





#43
Isopropyl Acetate
Concen: 18.631 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 8453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 17.1 | 15.1 | 22.7 |
| 87 | 12.3 | 9.7 | 14.5 |




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

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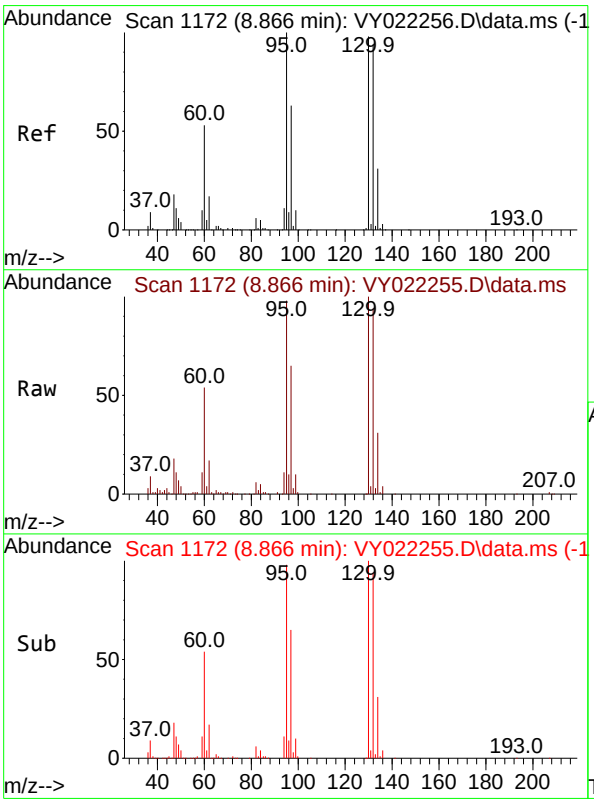
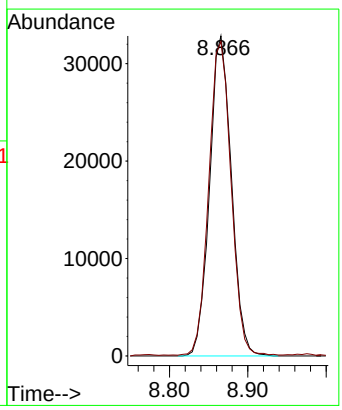
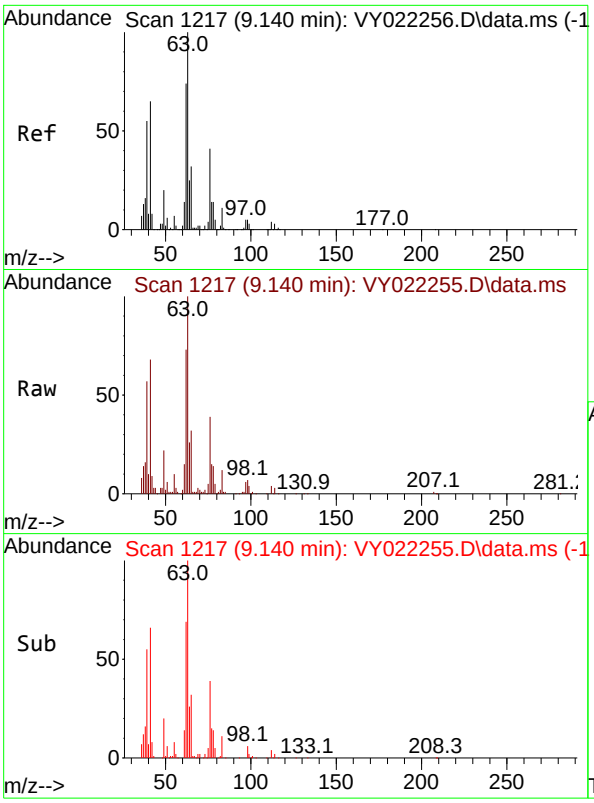



#44
Trichloroethene
Concen: 19.904 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:130 Resp: 63438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.0 | 0.0 | 204.8 |






#45
1,2-Dichloropropane
Concen: 19.557 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 63 Resp: 6043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.1 | 25.7 | 38.5 |

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

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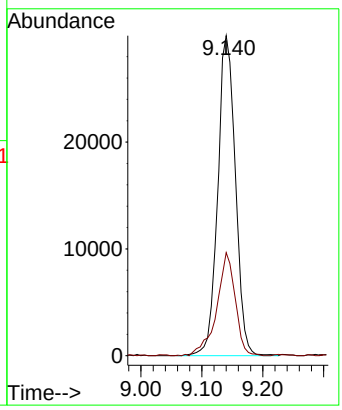
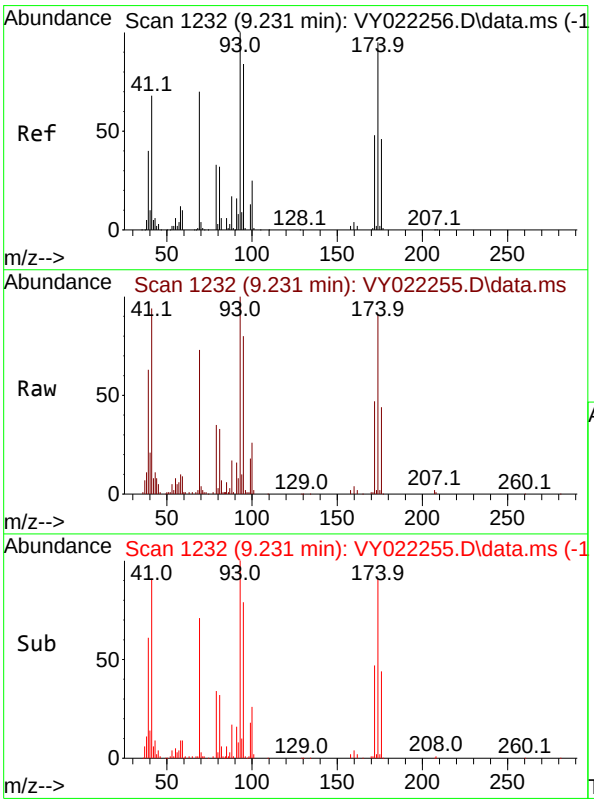
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

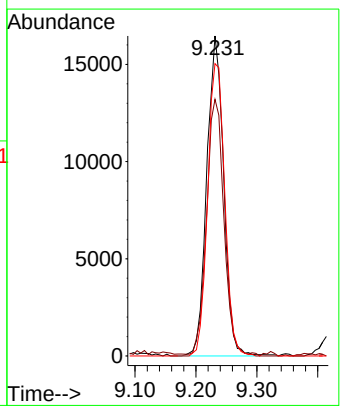


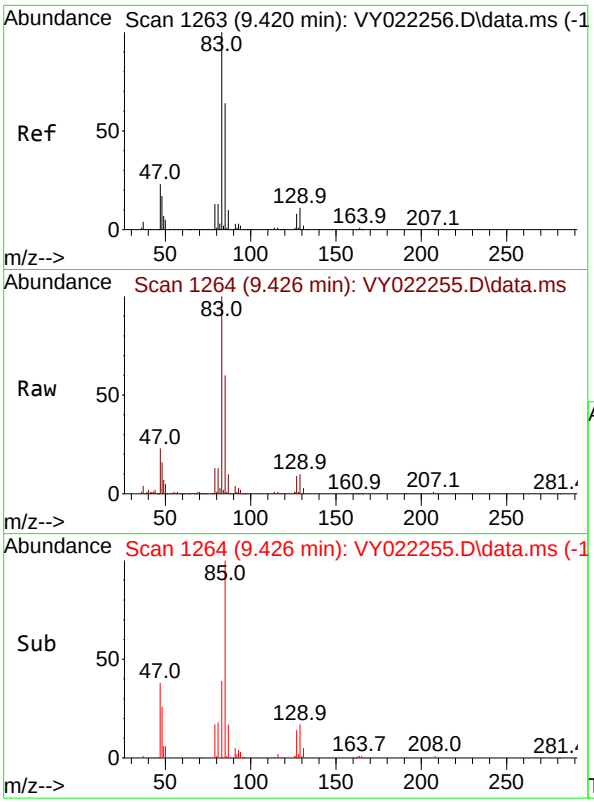




#46
Dibromomethane
Concen: 19.050 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 93 Resp: 31752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.8 | 65.2 | 97.8 |
| 174 | 92.4 | 74.3 | 111.5 |

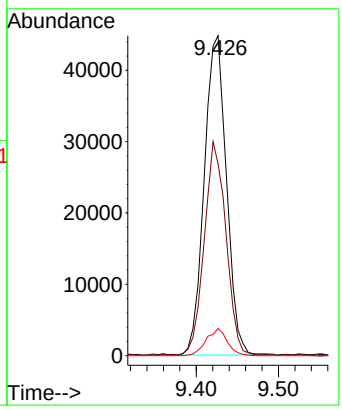





#47
Bromodichloromethane
Concen: 19.385 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 83 Resp: 8382

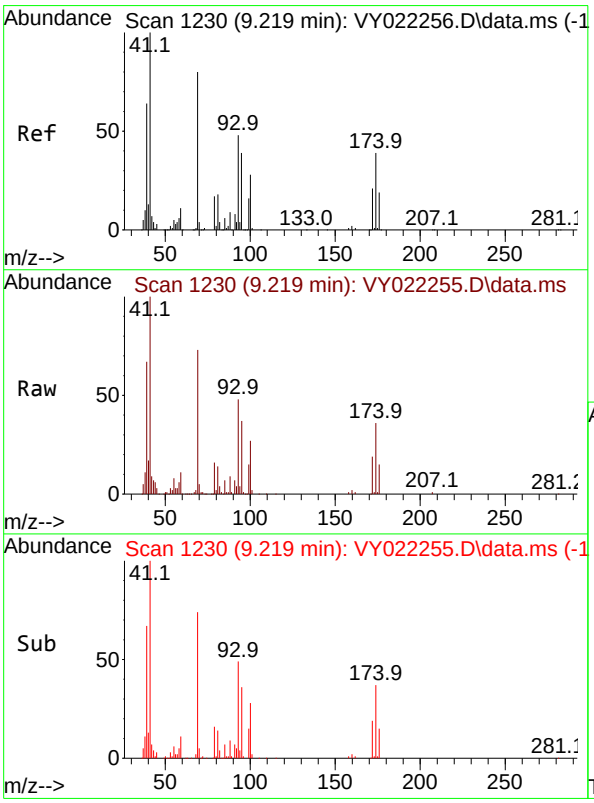
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.2 | 51.1 | 76.7 |
| 127 | 8.5 | 6.6 | 10.0 |




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

**Manual Integrations APPROVED**

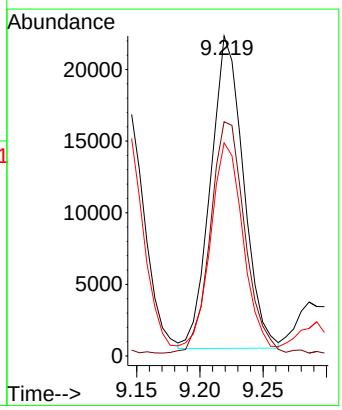
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

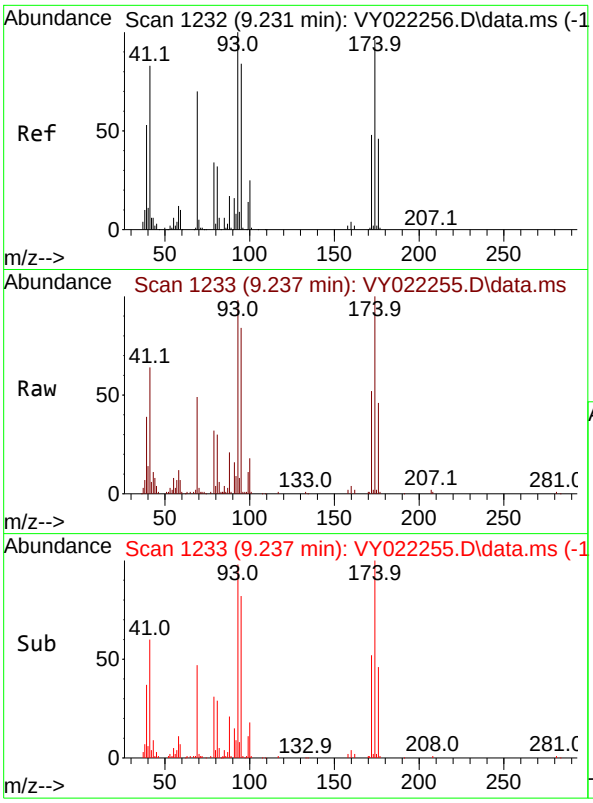



#48
Methyl methacrylate
Concen: 18.563 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 41 Resp: 39387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 77.5 | 63.5 | 95.3 |
| 39 | 63.4 | 50.8 | 76.2 |

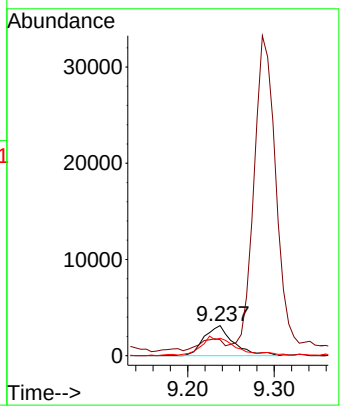





#49
1,4-Dioxane
Concen: 388.323 ug/l
RT: 9.237 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 88 Resp: 731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.6 | 28.5 | 42.7 |
| 58 | 71.1 | 61.4 | 92.2 |




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

**Manual Integrations**
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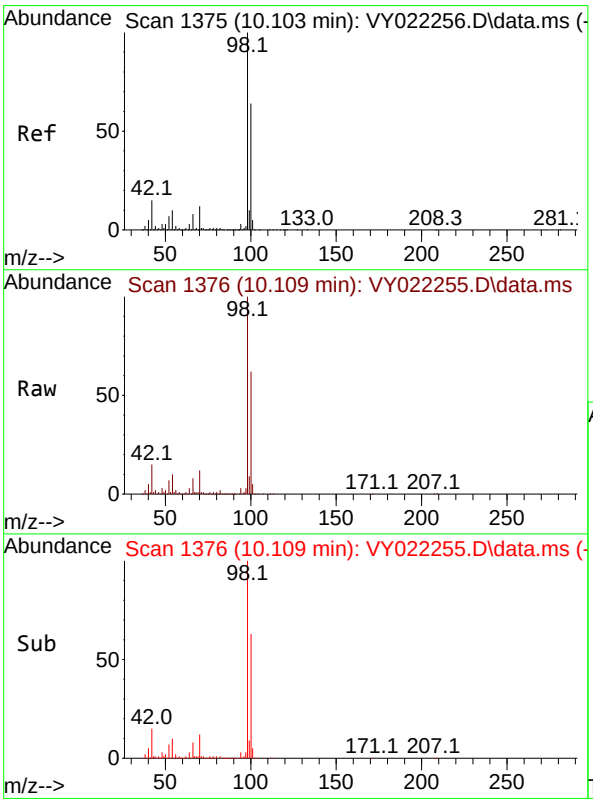
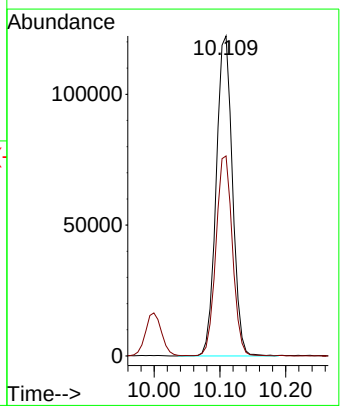
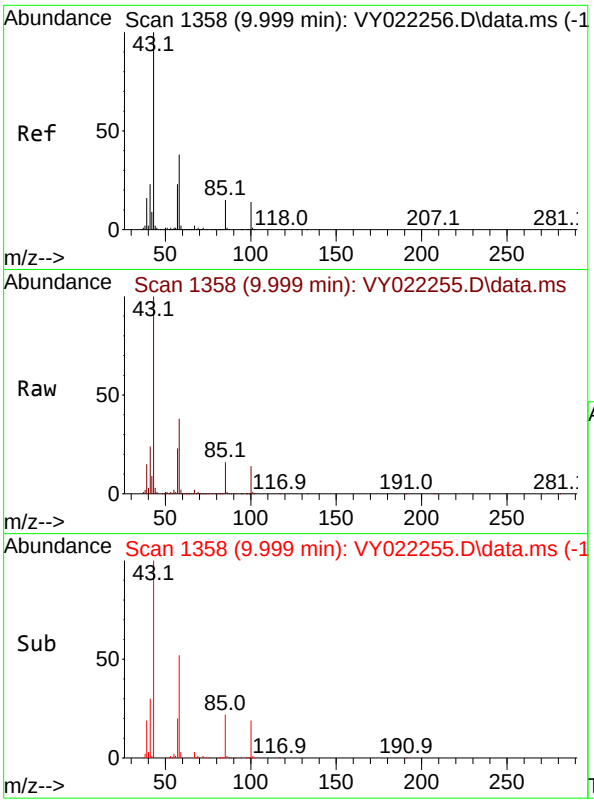



#50
Toluene-d8
Concen: 19.552 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 98 Resp: 210206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.4 | 51.8 | 77.8 |

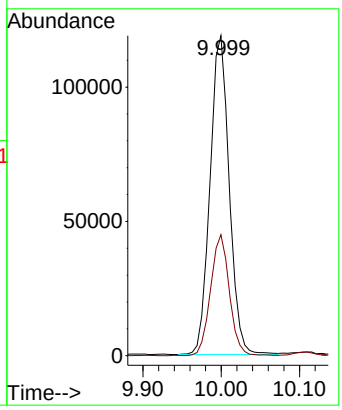





#51
4-Methyl-2-Pentanone
Concen: 90.940 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 20245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.2 | 29.4 | 44.2 |




**Instrument :**
MSVOA_Y
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VSTDICC020

**Manual Integrations**
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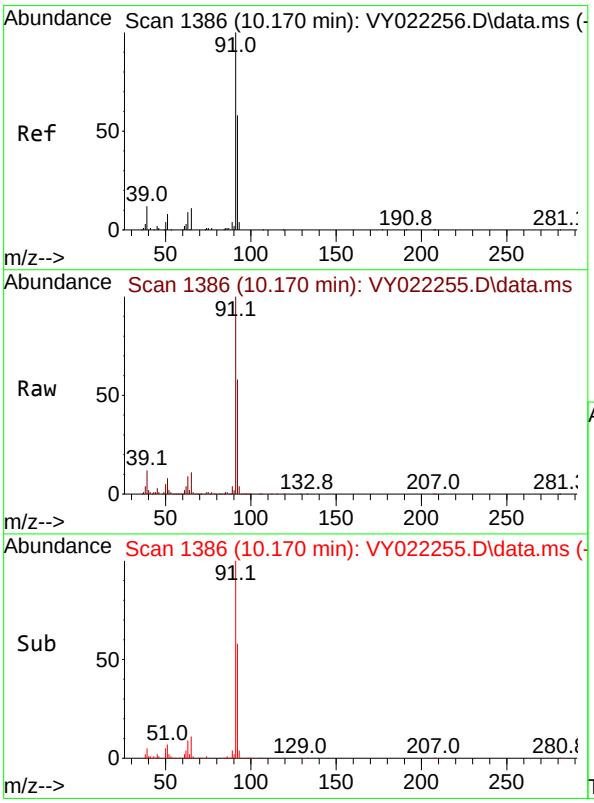
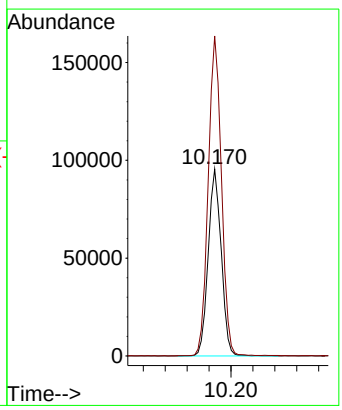
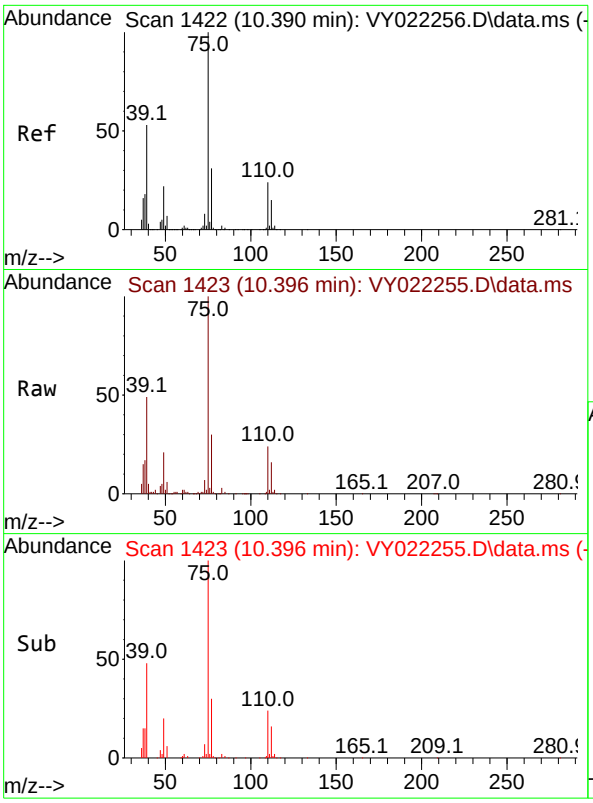



#52
Toluene
Concen: 19.281 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 92 Resp: 156498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.5 | 139.1 | 208.7 |

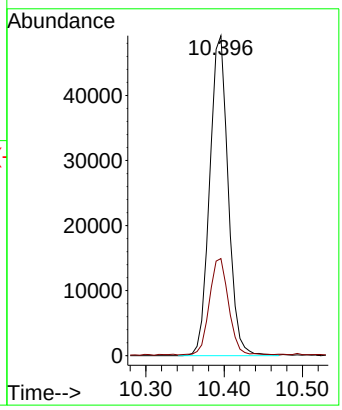





#53
t-1,3-Dichloropropene
Concen: 19.056 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 8041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.1 | 25.0 | 37.6 |




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

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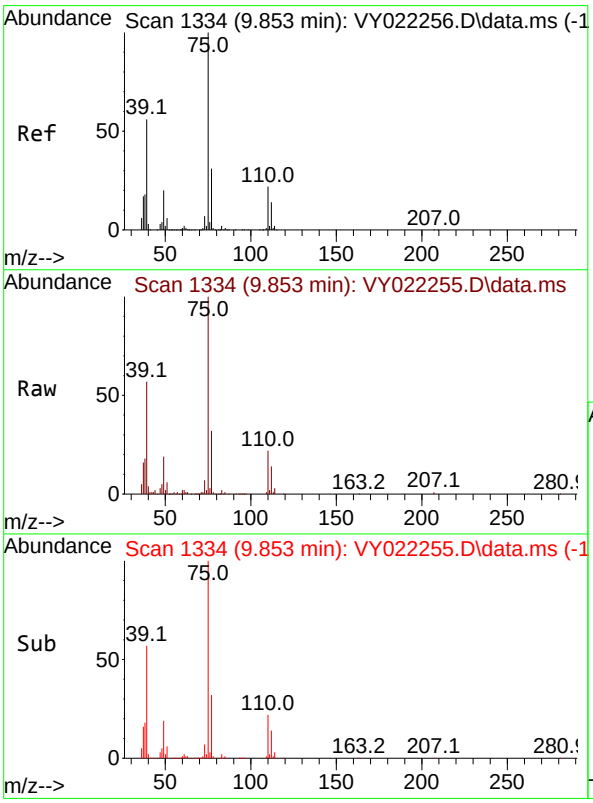
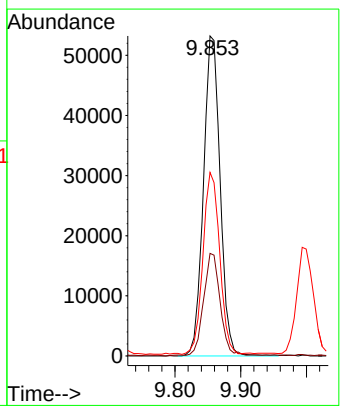
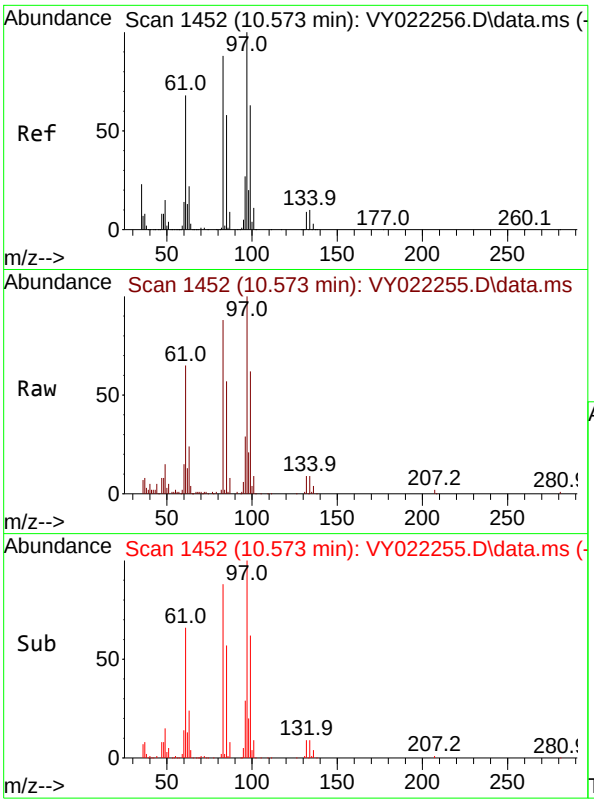



#54
cis-1,3-Dichloropropene
Concen: 19.458 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 94074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.1 | 37.7 |
| 39 | 56.6 | 44.5 | 66.7 |

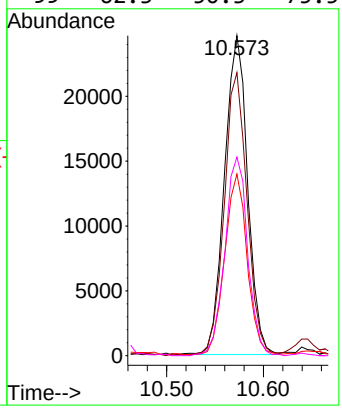





#55
1,1,2-Trichloroethane
Concen: 19.149 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 97 Resp: 4087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.4 | 70.3 | 105.5 |
| 85 | 56.5 | 46.2 | 69.4 |
| 99 | 62.3 | 50.3 | 75.5 |




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

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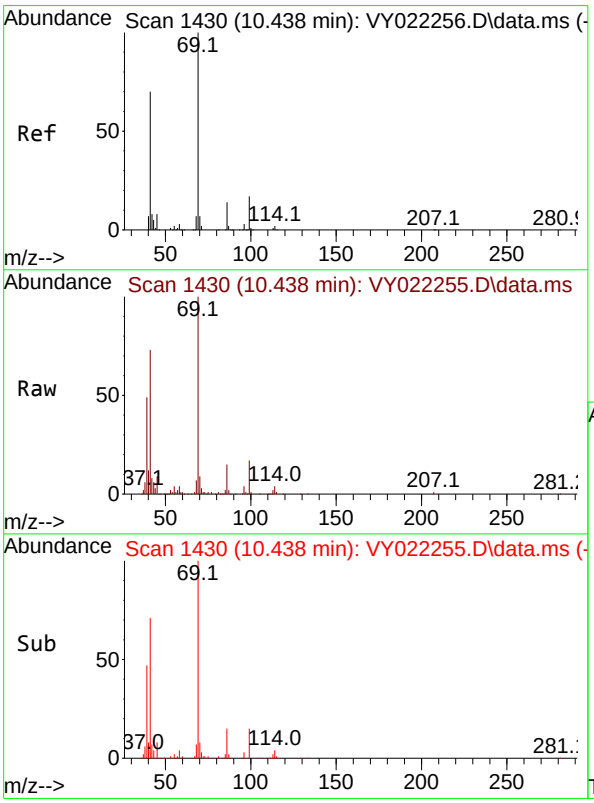
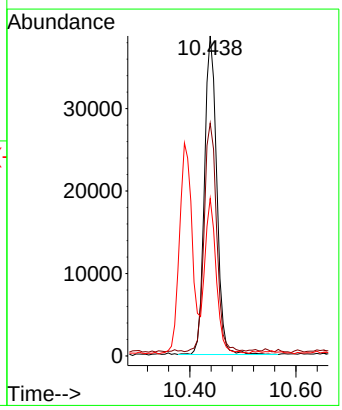
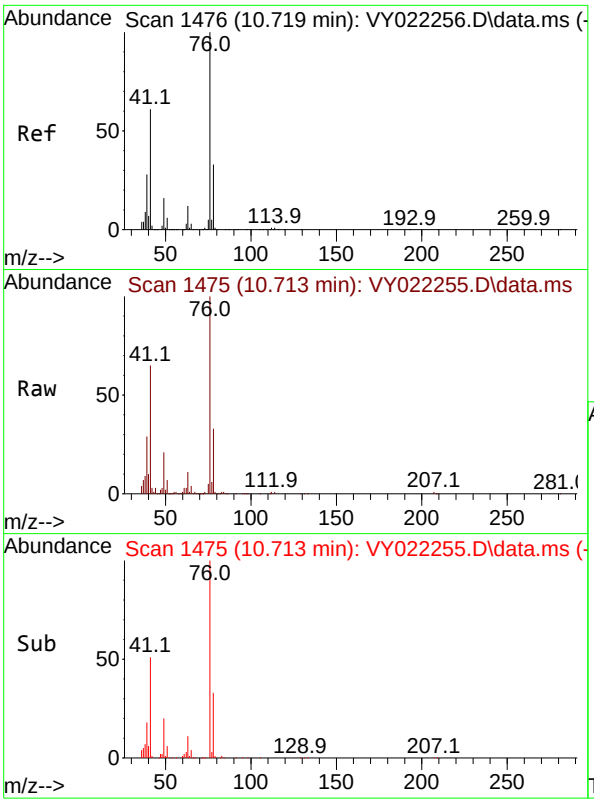



#56
Ethyl methacrylate
Concen: 18.706 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 69 Resp: 62193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 73.0 | 56.5 | 84.7 |
| 39 | 44.2 | 37.1 | 55.7 |

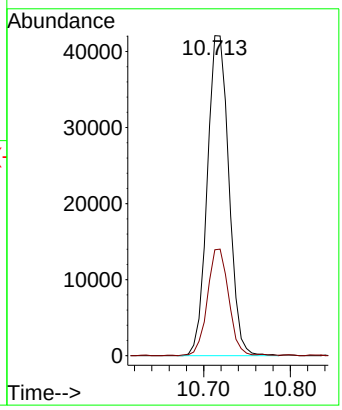





#57
1,3-Dichloropropane
Concen: 19.175 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 76 Resp: 7271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.1 | 25.8 | 38.8 |




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

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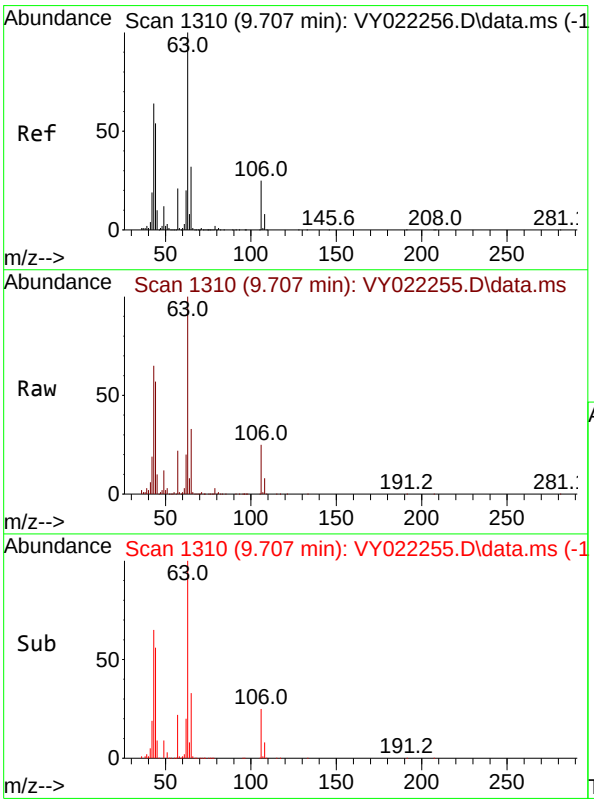
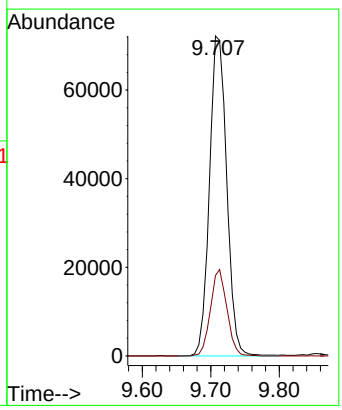
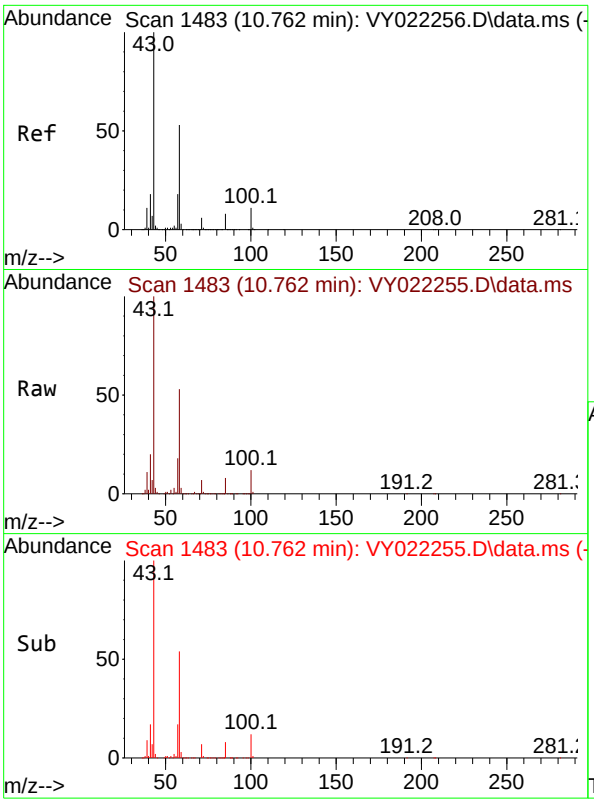



#58
2-Chloroethyl Vinyl ether
Concen: 84.595 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 63 Resp: 126240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 25.7 | 21.0 | 31.4 |






#59
2-Hexanone
Concen: 88.766 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 13249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 52.4 | 26.1 | 78.3 |

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

**Manual Integrations**
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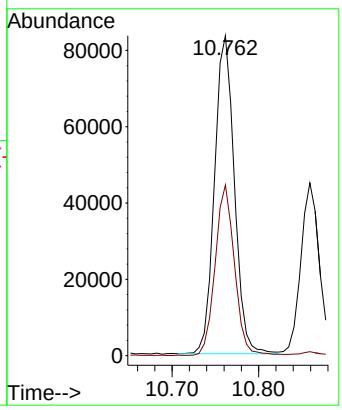
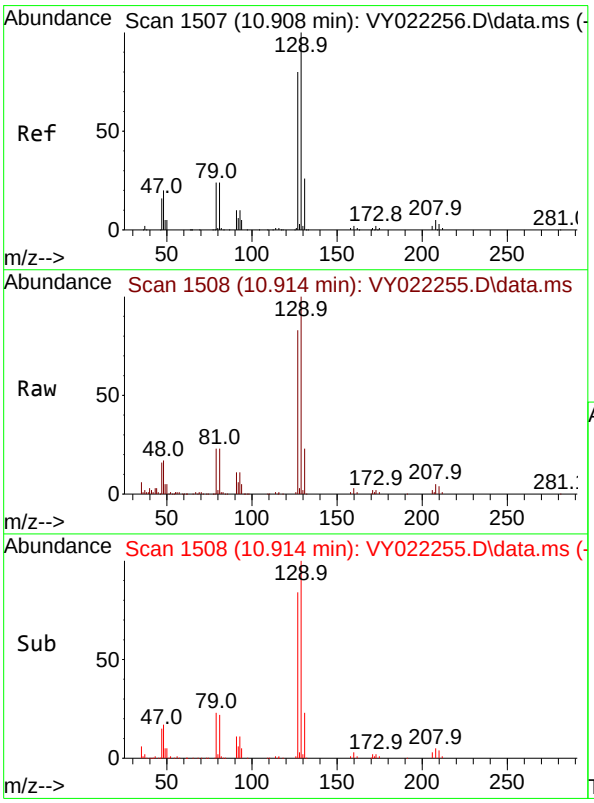
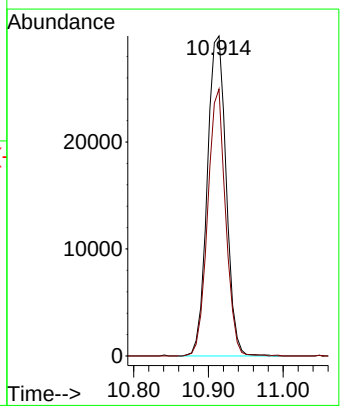


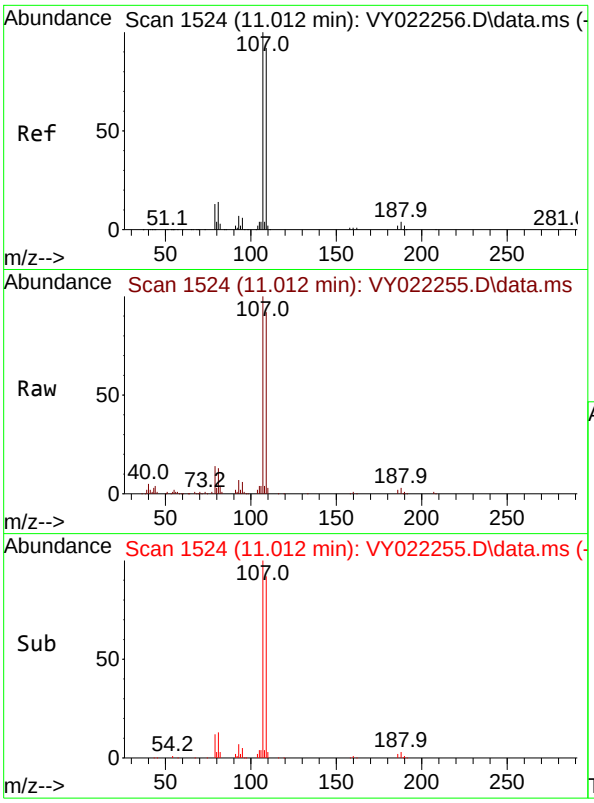




#60
Dibromochloromethane
Concen: 18.898 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:129 Resp: 52353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 79.1 | 38.6 | 115.7 |

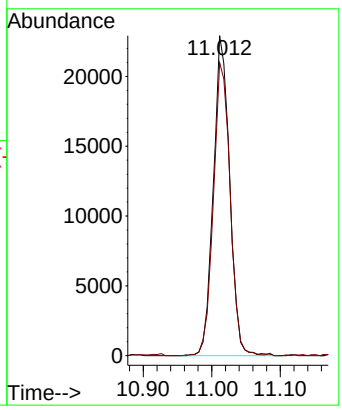





#61
1,2-Dibromoethane
Concen: 18.969 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:107 Resp: 3773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.1 | 74.6 | 111.8 |




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

**Manual Integrations**
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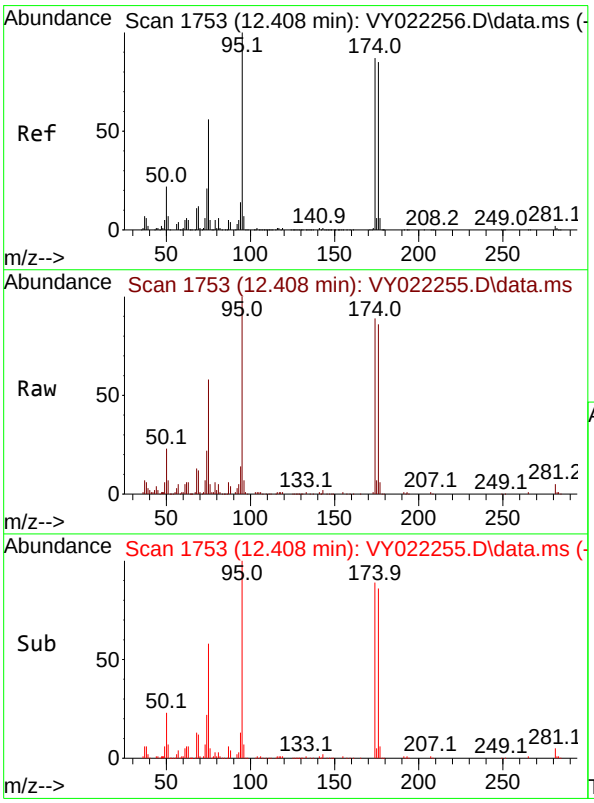
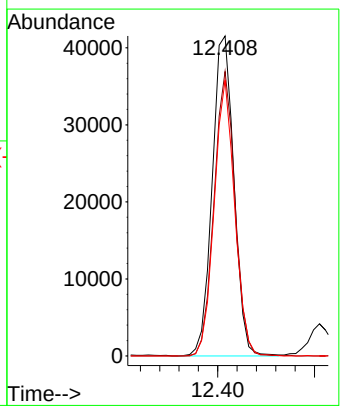
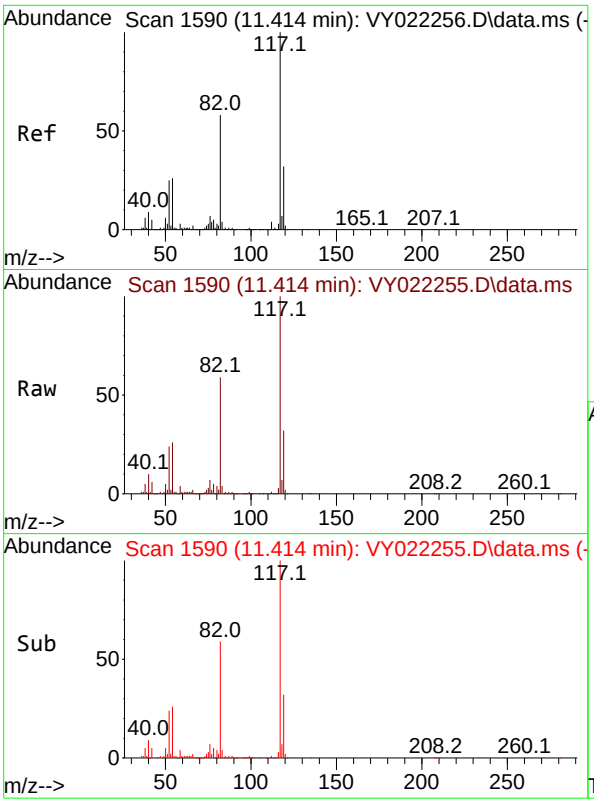



#62
4-Bromofluorobenzene
Concen: 18.988 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 95 Resp: 64706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.7 | 0.0 | 166.8 |
| 176 | 81.3 | 0.0 | 160.8 |

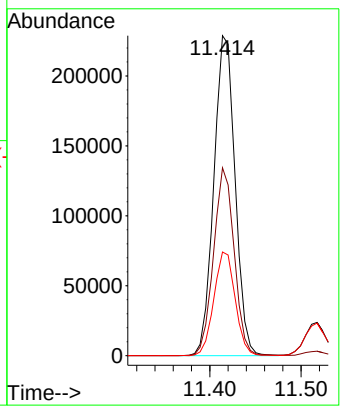





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:117 Resp: 37007

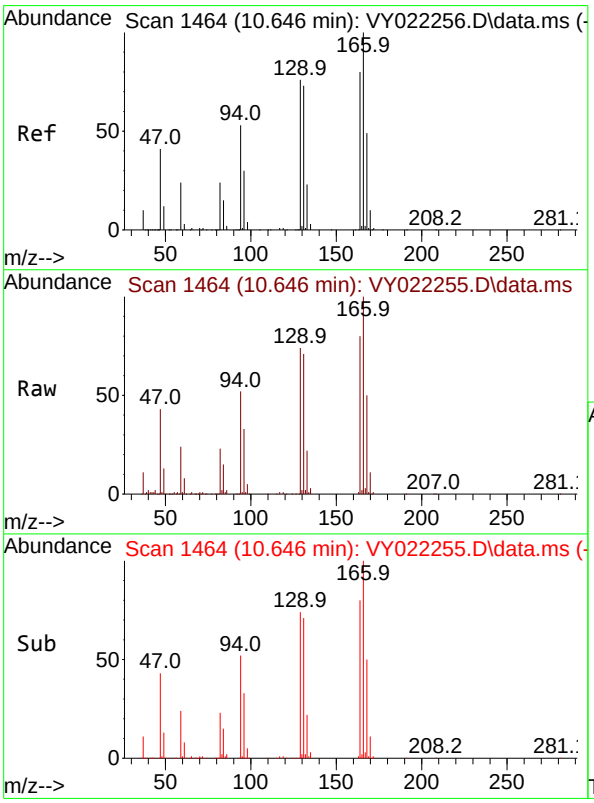
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.7 | 46.6 | 70.0 |
| 119 | 32.4 | 25.8 | 38.6 |




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

**Manual Integrations APPROVED**

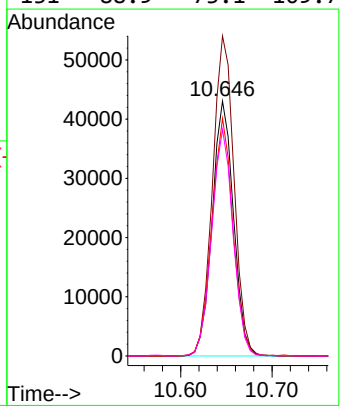
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

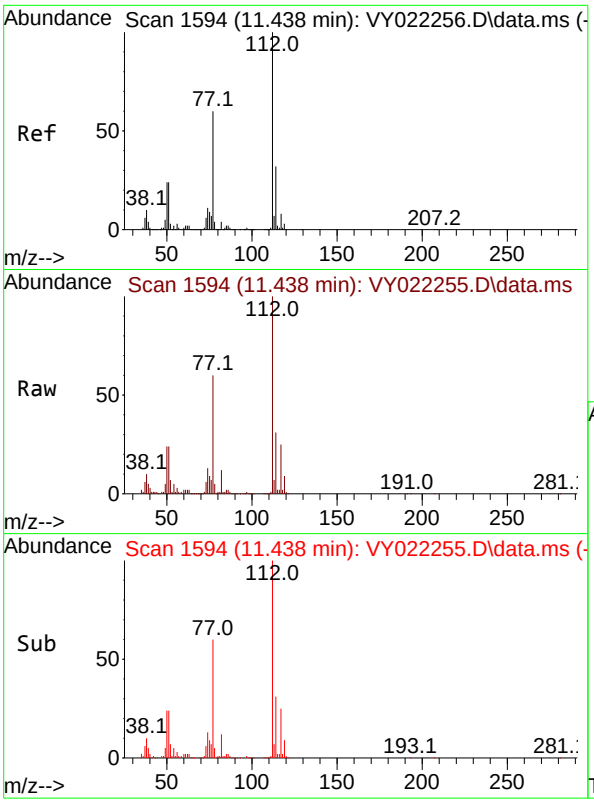



#64
Tetrachloroethene
Concen: 20.332 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:164 Resp: 69548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 125.6 | 100.4 | 150.6 |
| 129 | 93.2 | 76.4 | 114.6 |
| 131 | 88.9 | 73.1 | 109.7 |

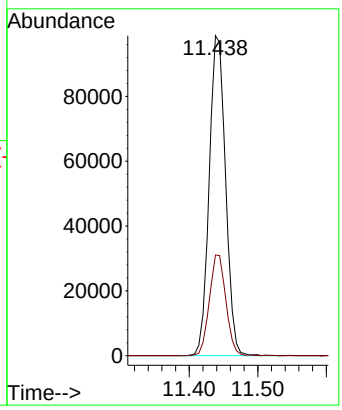





#65
Chlorobenzene
Concen: 19.610 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:112 Resp: 16372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.4 | 25.8 | 38.6 |




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

**Manual Integrations**
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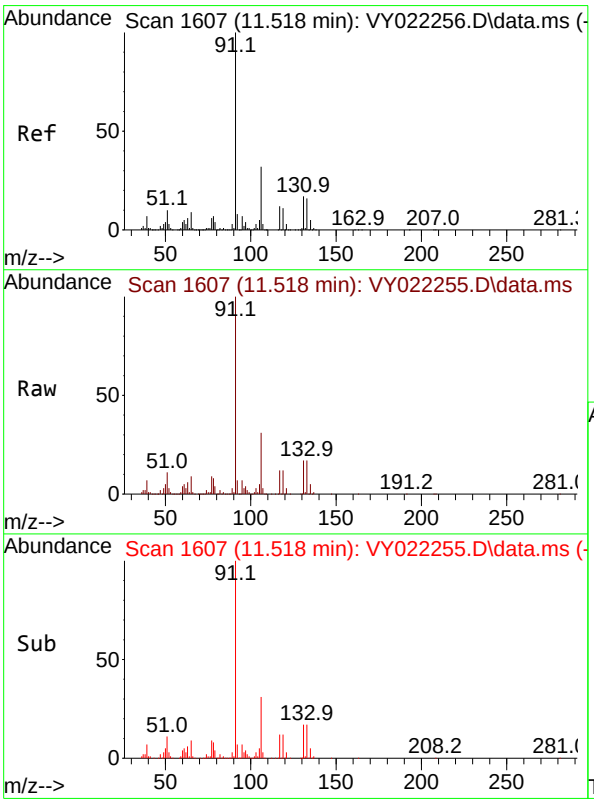
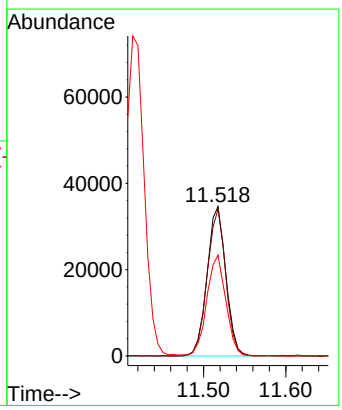
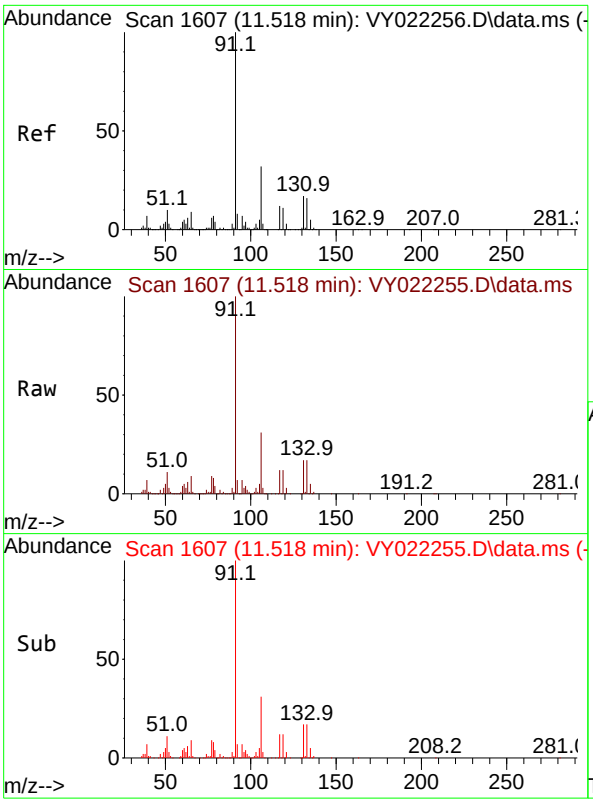



#66
1,1,1,2-Tetrachloroethane
Concen: 19.189 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:131 Resp: 55078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.5 | 47.3 | 141.9 |
| 119 | 68.4 | 33.1 | 99.2 |

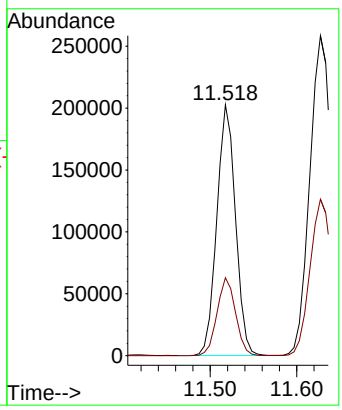





#67
Ethyl Benzene
Concen: 19.402 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 91 Resp: 30337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.1 | 25.4 | 38.0 |




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

**Manual Integrations**
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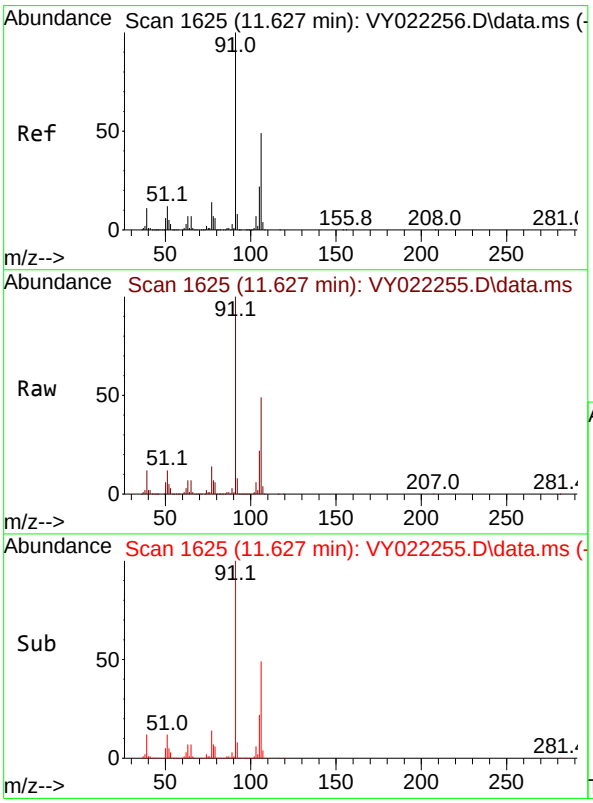
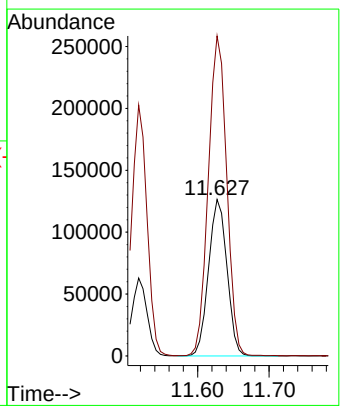
Supervised By :Semsettin Yesilyurt 05/16/2025

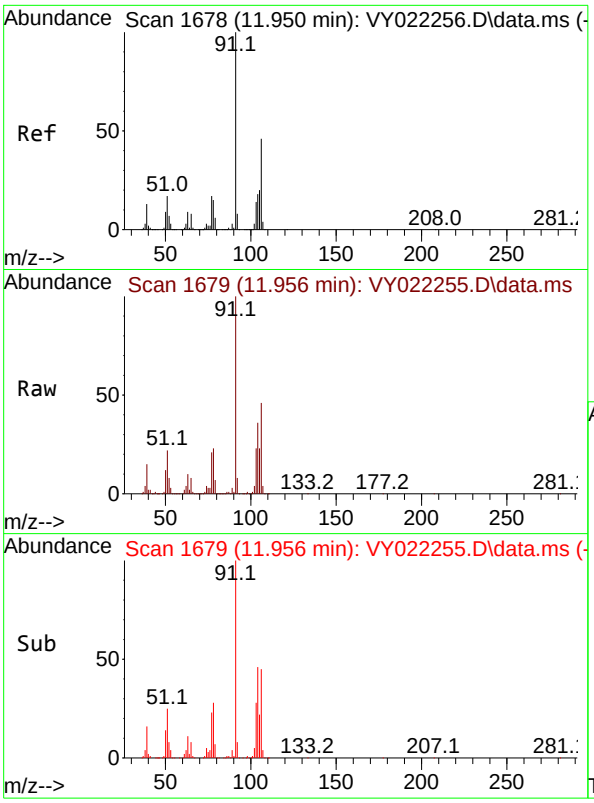



#68
m/p-Xylenes
Concen: 38.355 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:106 Resp: 225990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 204.2 | 163.0 | 244.4 |

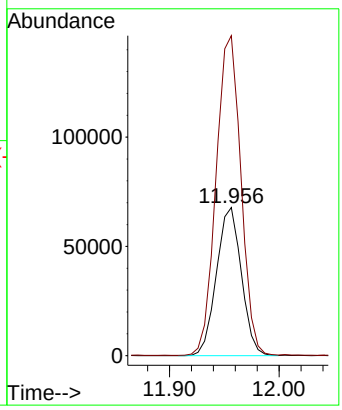





#69
o-Xylene
Concen: 19.194 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:106 Resp: 10699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.7 | 108.3 | 324.8 |




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

**Manual Integrations**
**APPROVED**

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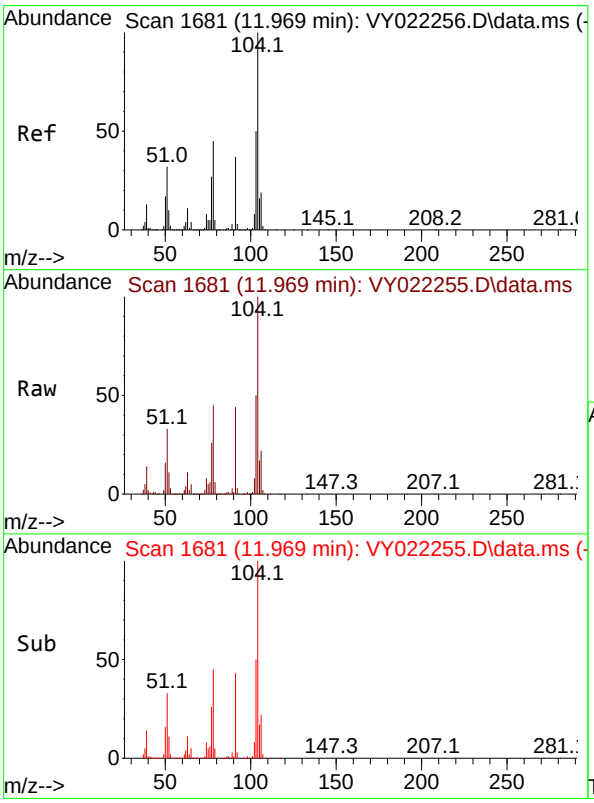
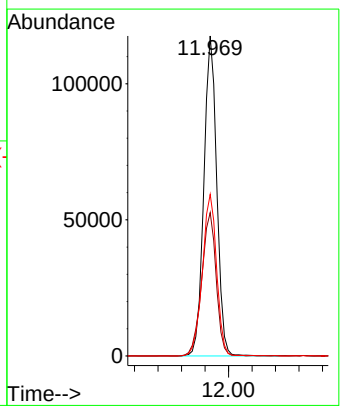
Supervised By :Semsettin Yesilyurt 05/16/2025

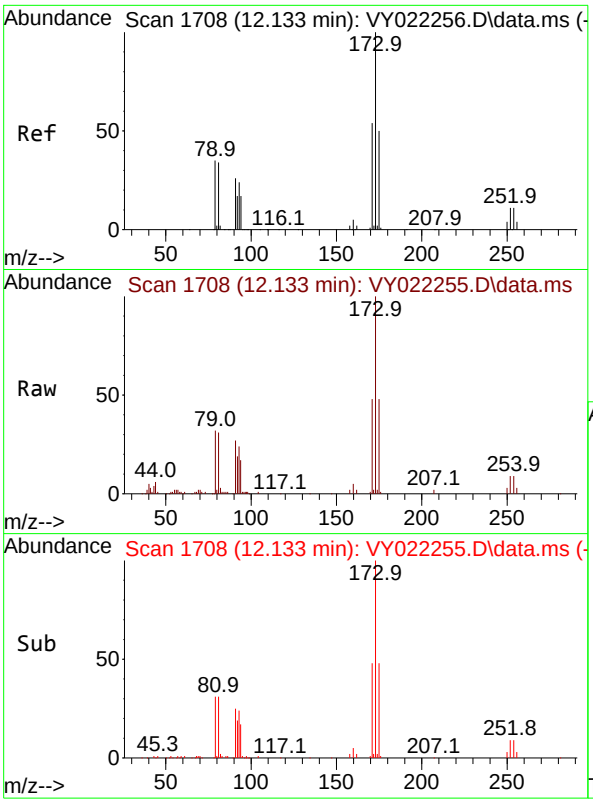



#70
Styrene
Concen: 19.048 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:104 Resp: 179114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.3 | 40.9 | 61.3 |
| 103 | 55.7 | 43.7 | 65.5 |

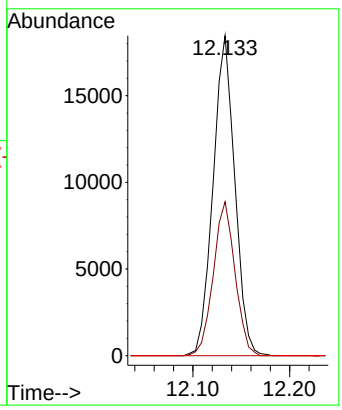





#71
Bromoform
Concen: 18.582 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:173 Resp: 2878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.0 | 24.7 | 74.1 |
| 254 | 0.0 | 0.0 | 0.0 |




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

**Manual Integrations**
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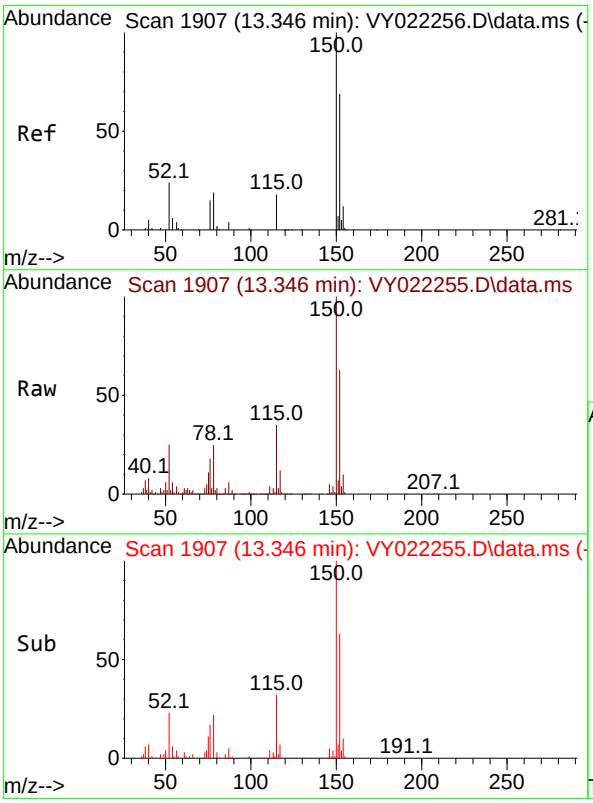
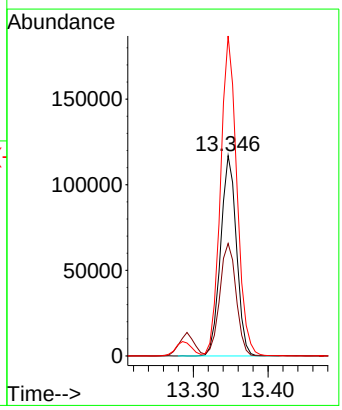
Supervised By :Semsettin Yesilyurt 05/16/2025

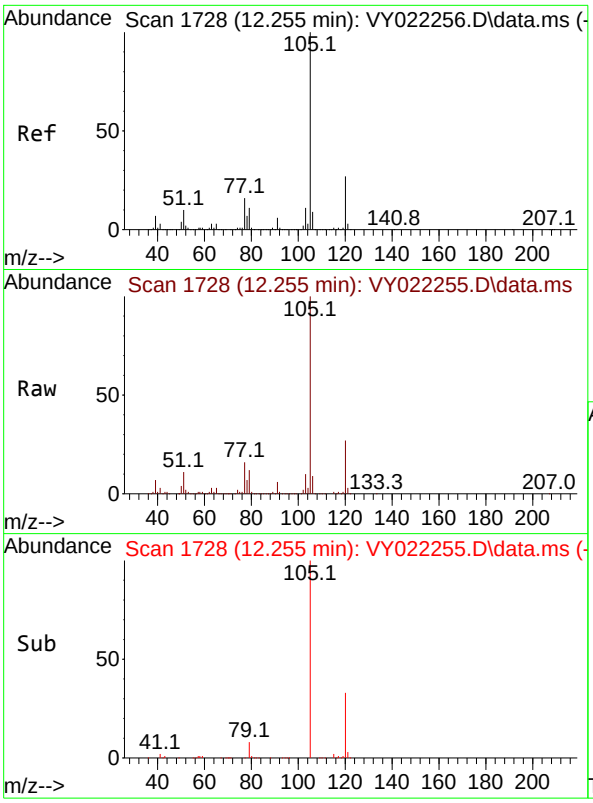



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:152 Resp: 172509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.6 | 29.4 | 88.2 |
| 150 | 165.2 | 0.0 | 353.8 |






#73
Isopropylbenzene
Concen: 19.795 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

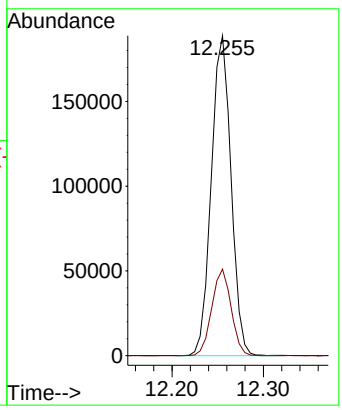
Tgt Ion:105 Resp: 28289

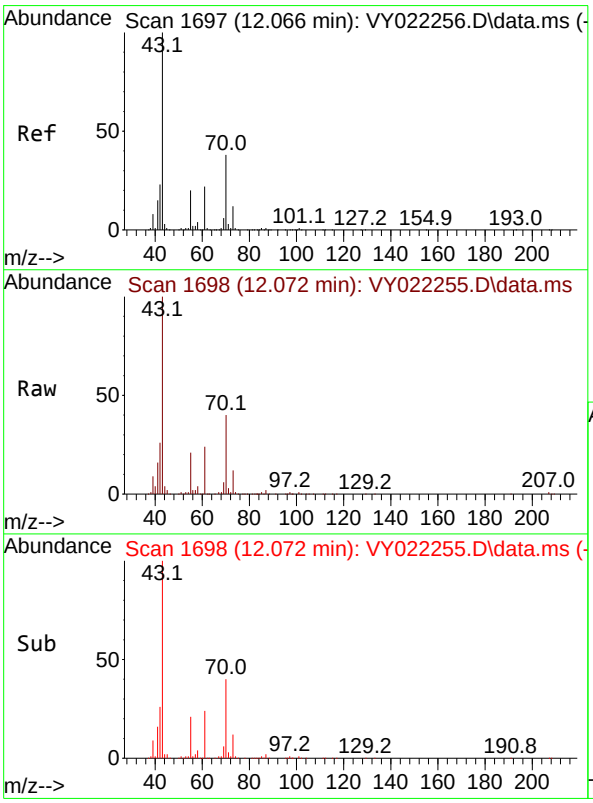
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.5 | 13.2 | 39.6 |

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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

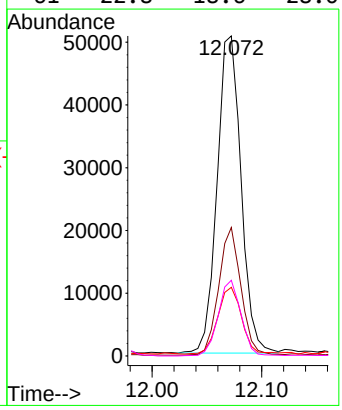


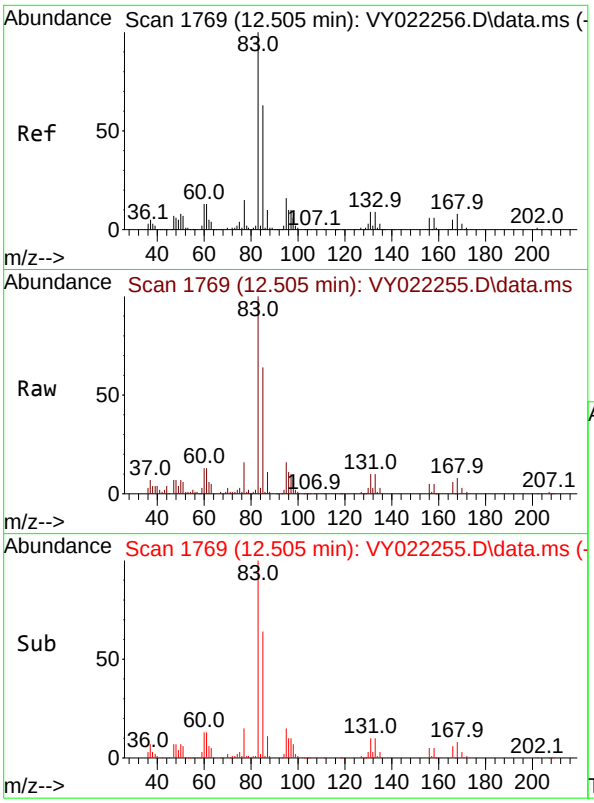




#74
N-amyl acetate
Concen: 18.799 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 76841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 37.3 | 31.4 | 47.0 |
| 55 | 21.3 | 17.0 | 25.6 |
| 61 | 22.8 | 18.6 | 28.0 |






#75
1,1,2,2-Tetrachloroethane
Concen: 18.228 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 83 Resp: 4006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.1 | 4.9 | 14.7 |
| 85 | 65.9 | 32.0 | 96.0 |

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

**Manual Integrations APPROVED**

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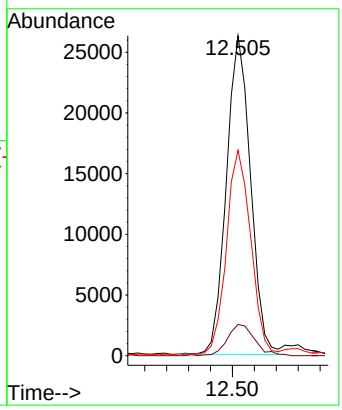
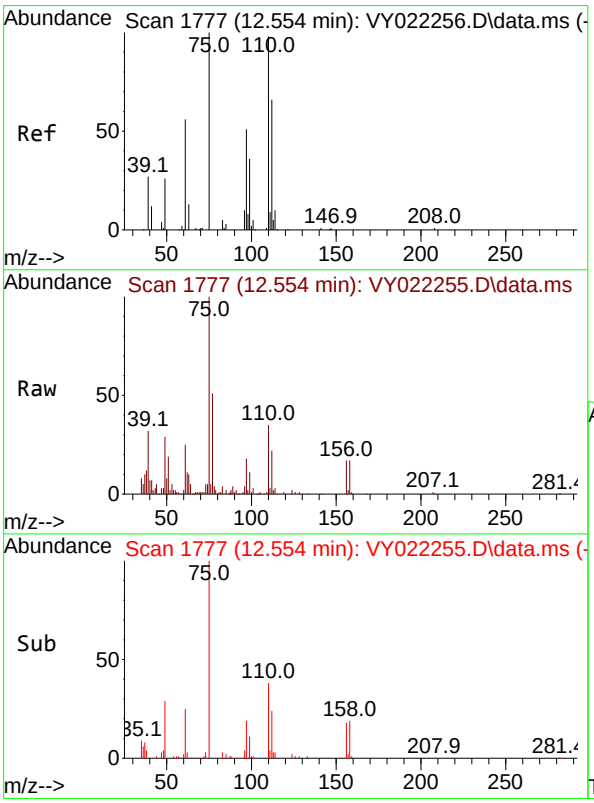
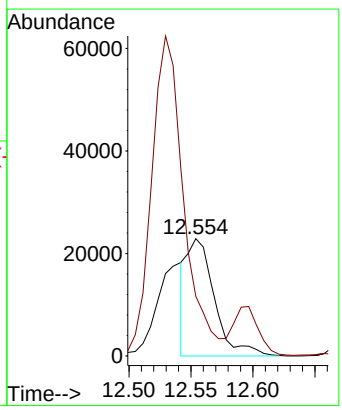


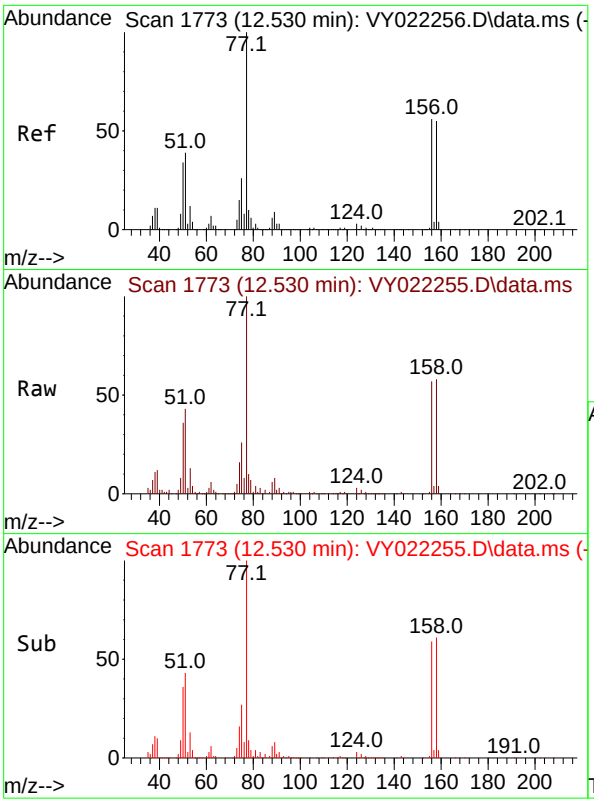




#76
1,2,3-Trichloropropane
Concen: 11.701 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 35574

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

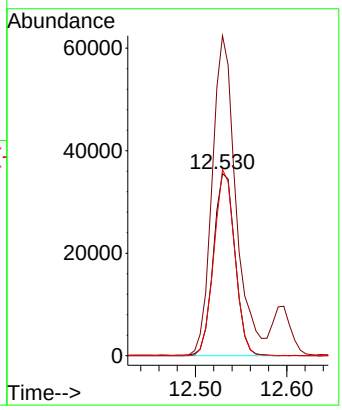





#77
Bromobenzene
Concen: 19.170 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:156 Resp: 5851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 190.6 | 94.5 | 283.6 |
| 158 | 99.0 | 48.4 | 145.3 |




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

**Manual Integrations APPROVED**

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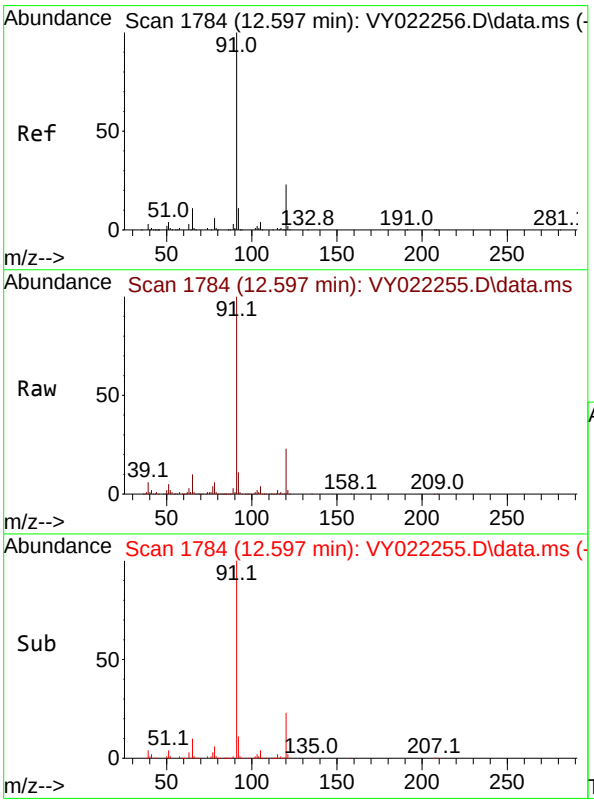
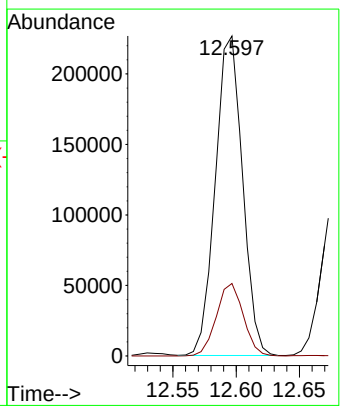
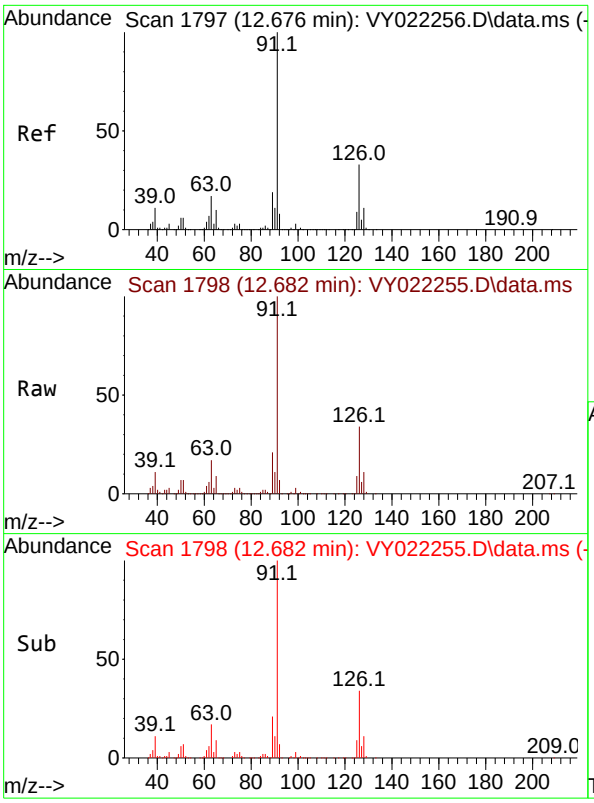



#78
n-propylbenzene
Concen: 19.630 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 91 Resp: 338383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.5 | 11.1 | 33.3 |

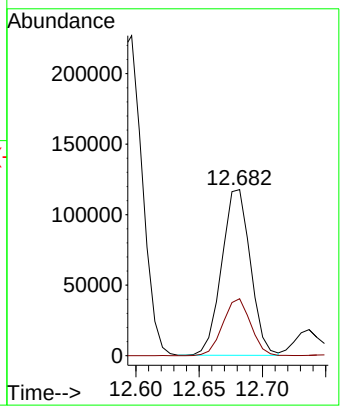





#79
2-Chlorotoluene
Concen: 19.621 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 91 Resp: 18587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.3 | 16.8 | 50.4 |




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

**Manual Integrations**
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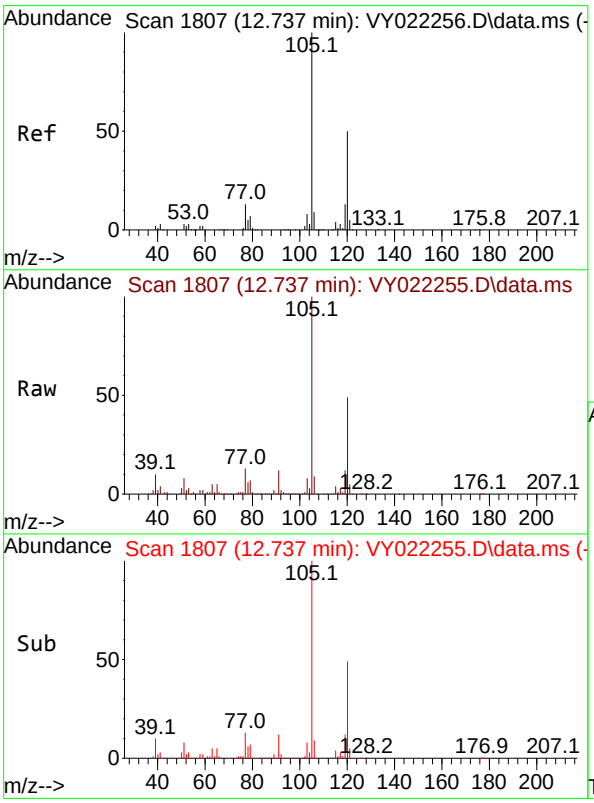
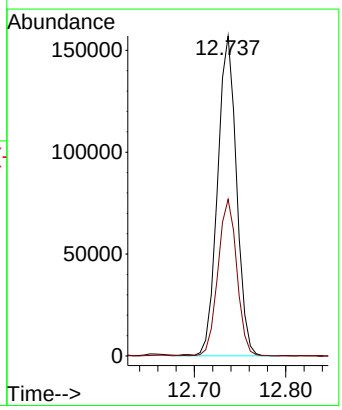
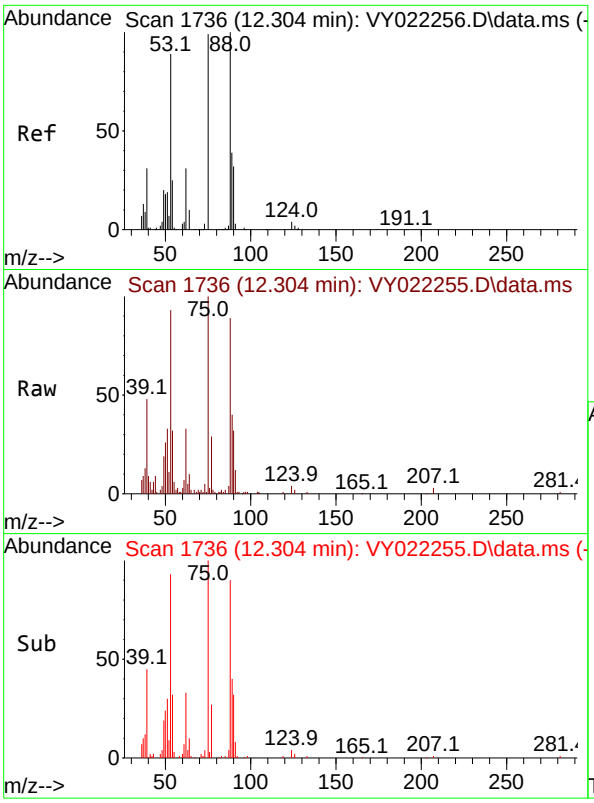



#80
1,3,5-Trimethylbenzene
Concen: 19.587 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:105 Resp: 225966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.9 | 24.2 | 72.6 |

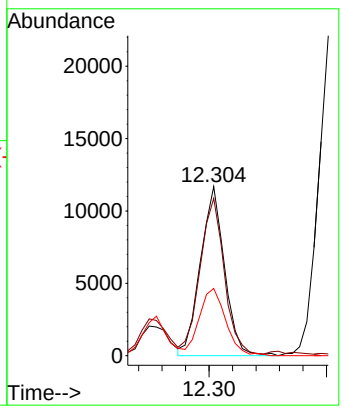





#81
trans-1,4-Dichloro-2-butene
Concen: 19.302 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 1665

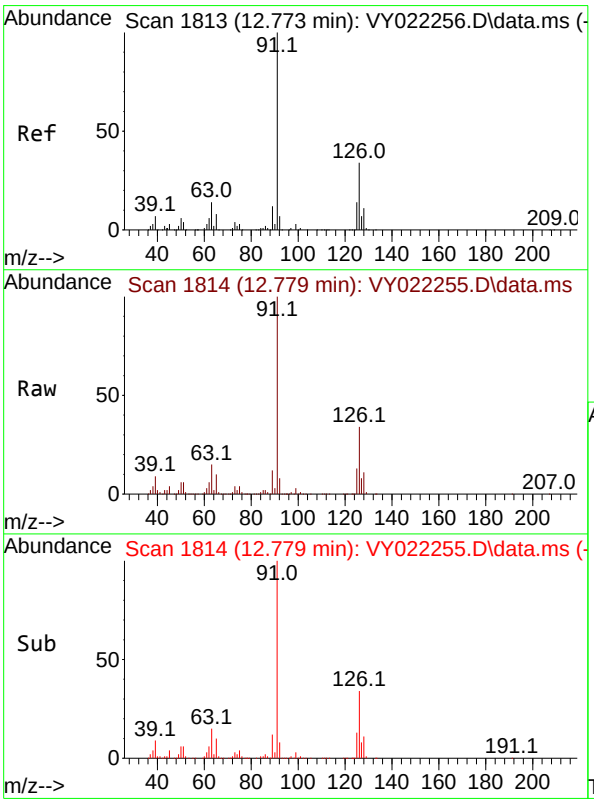
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 92.5 | 75.8 | 113.8 |
| 89 | 43.2 | 36.2 | 54.2 |




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

**Manual Integrations**
**APPROVED**

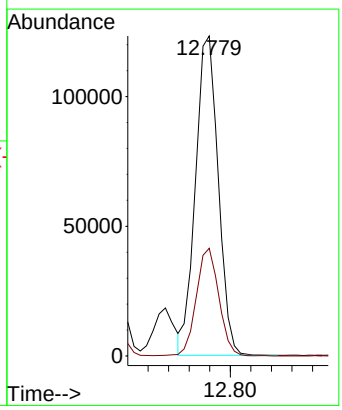
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

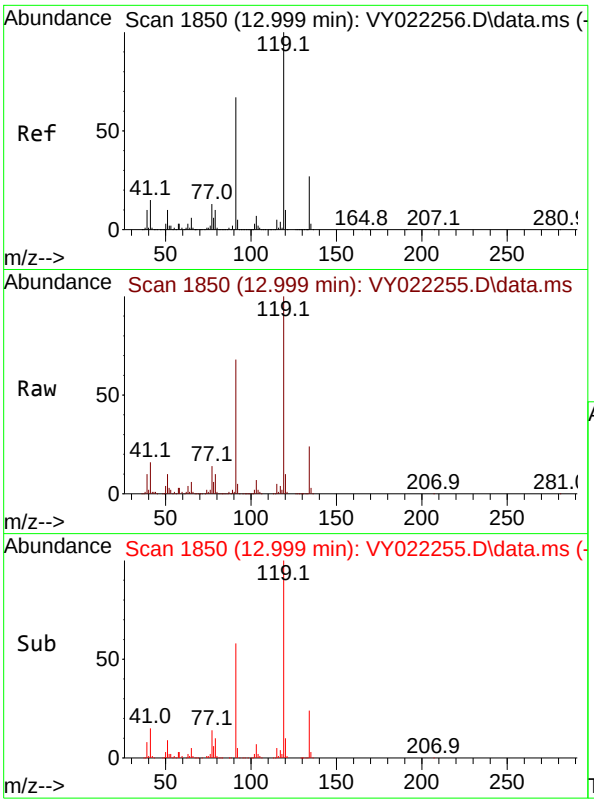



#82
4-Chlorotoluene
Concen: 19.433 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 91 Resp: 189350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.6 | 16.8 | 50.4 |

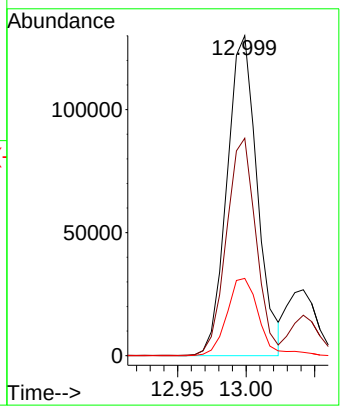





#83
tert-Butylbenzene
Concen: 19.515 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:119 Resp: 20010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 66.3 | 32.8 | 98.3 |
| 134 | 25.6 | 12.9 | 38.6 |




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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
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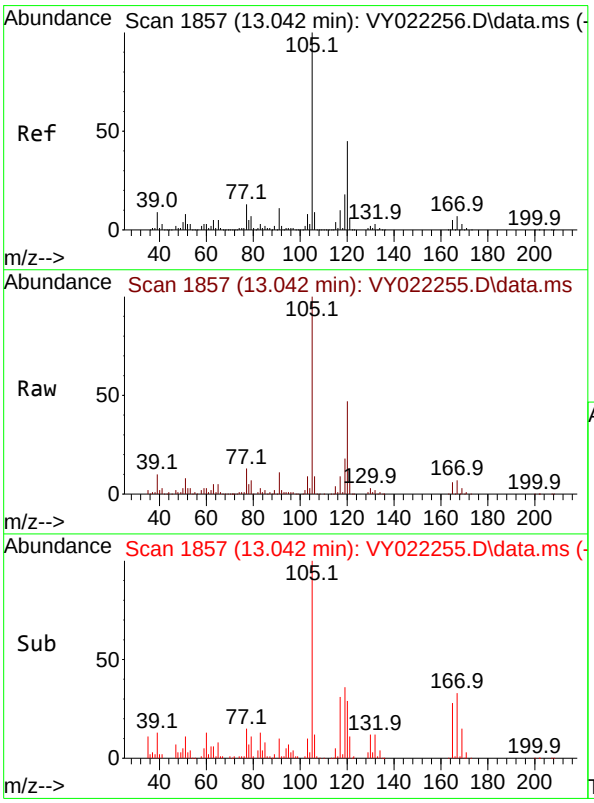
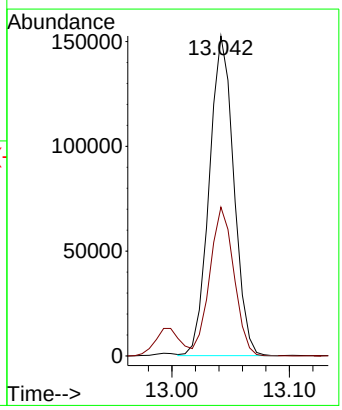
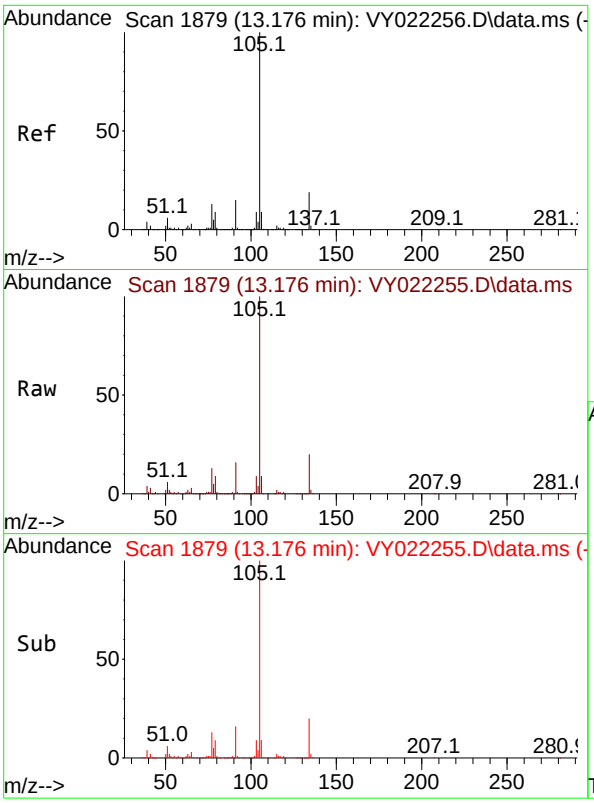



#84
1,2,4-Trimethylbenzene
Concen: 19.315 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:105 Resp: 221194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.9 | 22.3 | 66.9 |

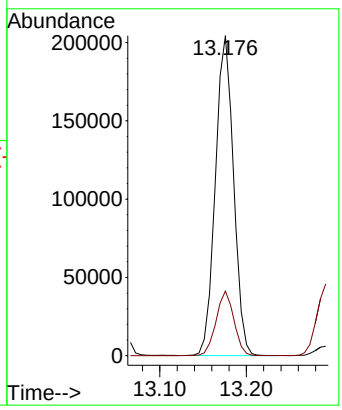





#85
sec-Butylbenzene
Concen: 19.576 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:105 Resp: 29797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 9.8 | 29.5 |




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

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
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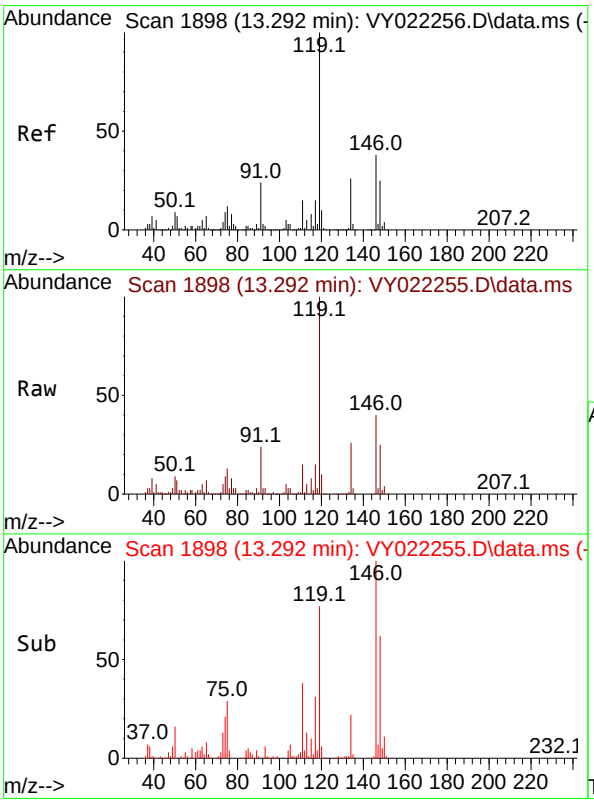
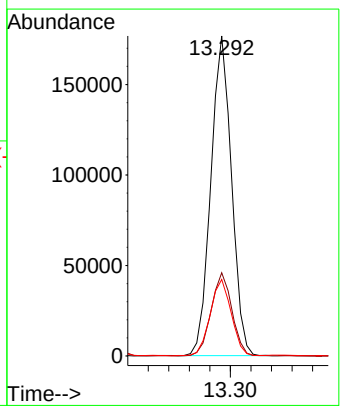
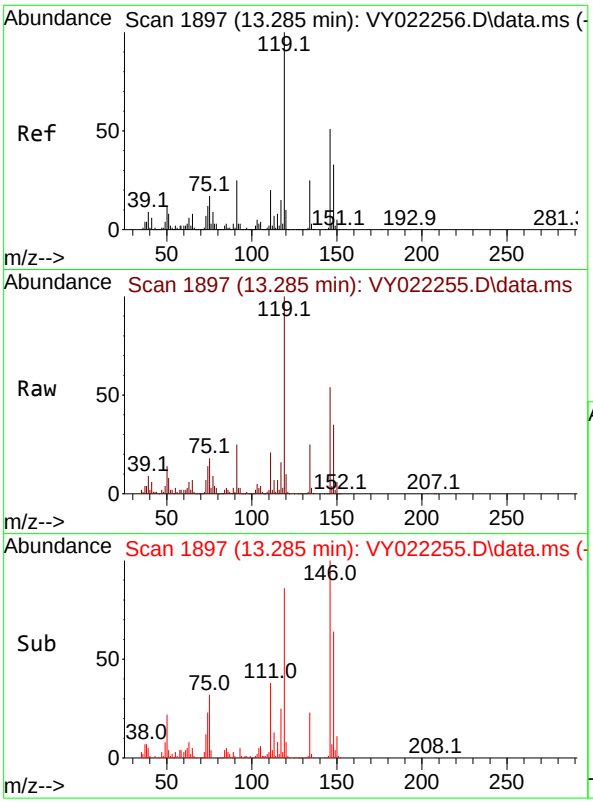



#86
p-Isopropyltoluene
Concen: 19.261 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:119 Resp: 246569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.3 | 12.9 | 38.6 |
| 91 | 24.2 | 12.1 | 36.3 |

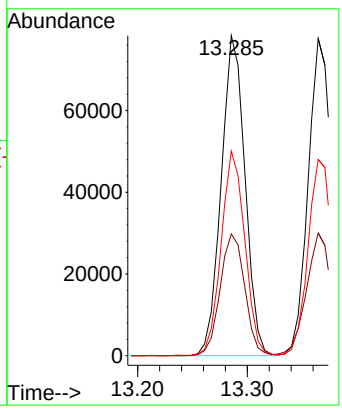





#87
1,3-Dichlorobenzene
Concen: 18.991 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:146 Resp: 11833

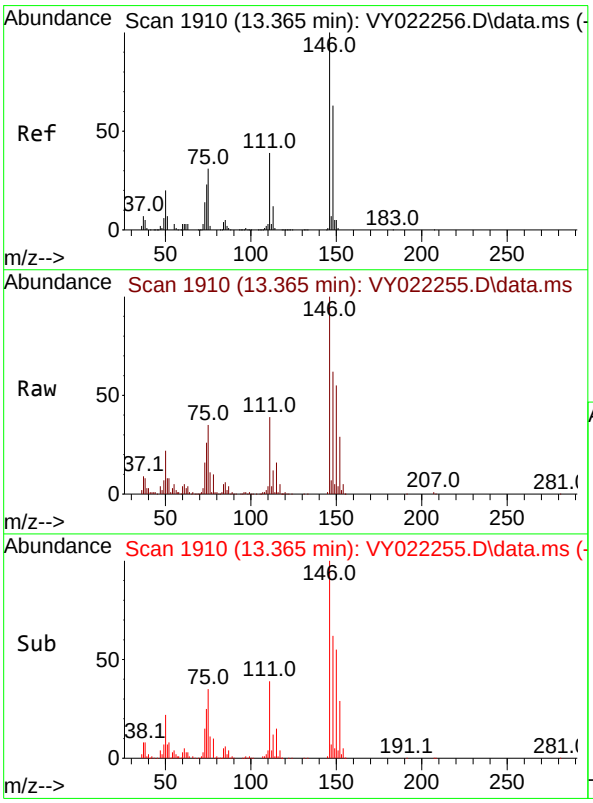
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.3 | 19.9 | 59.7 |
| 148 | 63.4 | 31.9 | 95.7 |




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

**Manual Integrations APPROVED**

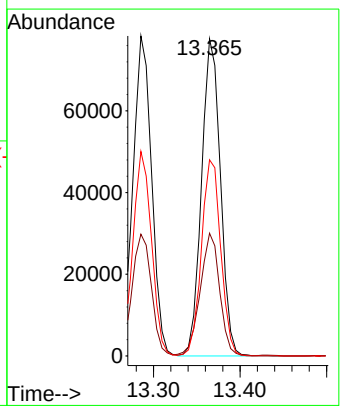
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

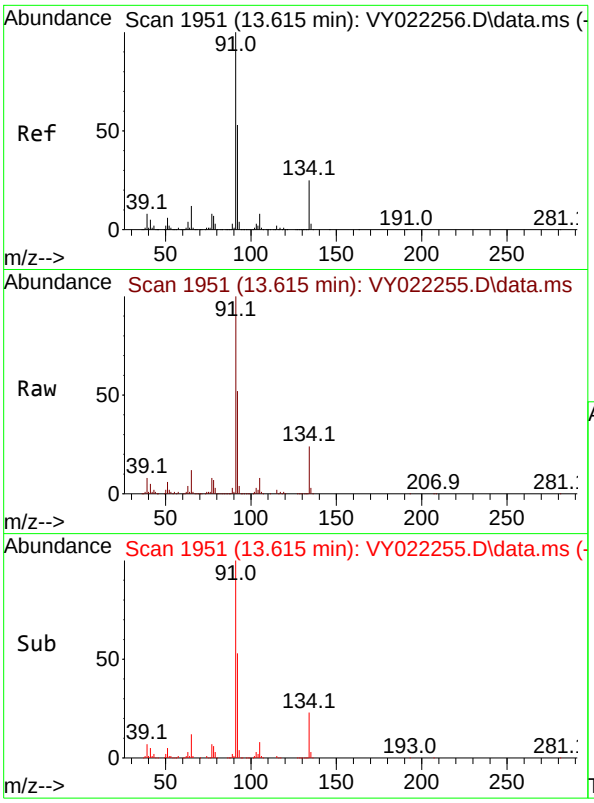



#88
1,4-Dichlorobenzene
Concen: 19.638 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:146 Resp: 117705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.8 | 20.0 | 59.9 |
| 148 | 63.3 | 32.1 | 96.5 |

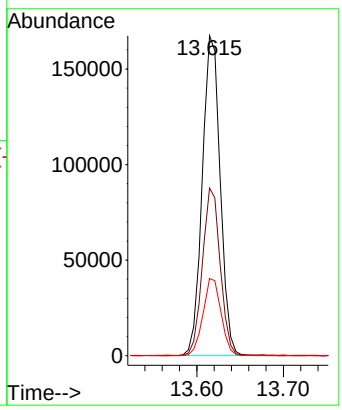





#89
n-Butylbenzene
Concen: 19.887 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 91 Resp: 24085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.0 | 26.3 | 78.9 |
| 134 | 24.3 | 12.4 | 37.4 |




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

**Manual Integrations APPROVED**

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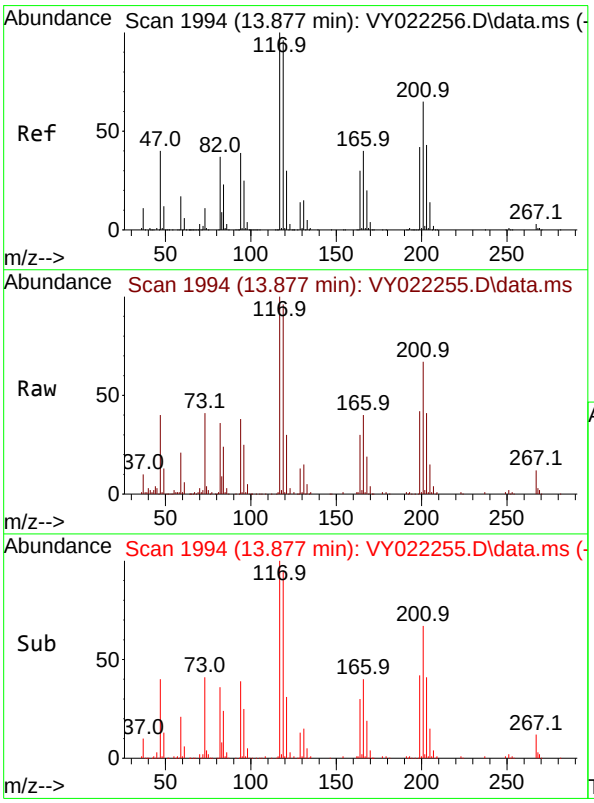
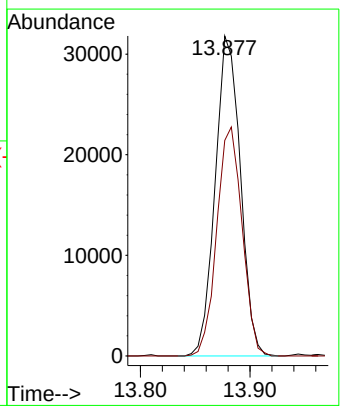
Supervised By :Semsettin Yesilyurt 05/16/2025

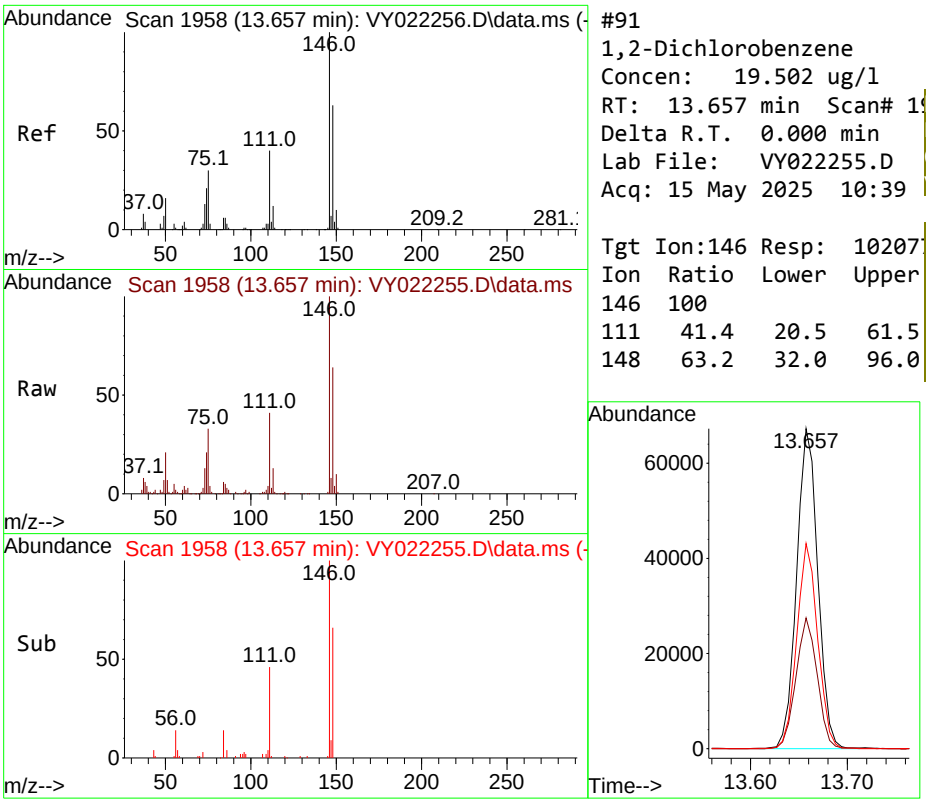



#90
Hexachloroethane
Concen: 19.643 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:117 Resp: 50762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 72.0 | 35.2 | 105.6 |






#91
1,2-Dichlorobenzene
Concen: 19.502 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:146 Resp: 10207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.4 | 20.5 | 61.5 |
| 148 | 63.2 | 32.0 | 96.0 |




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

**Manual Integrations**
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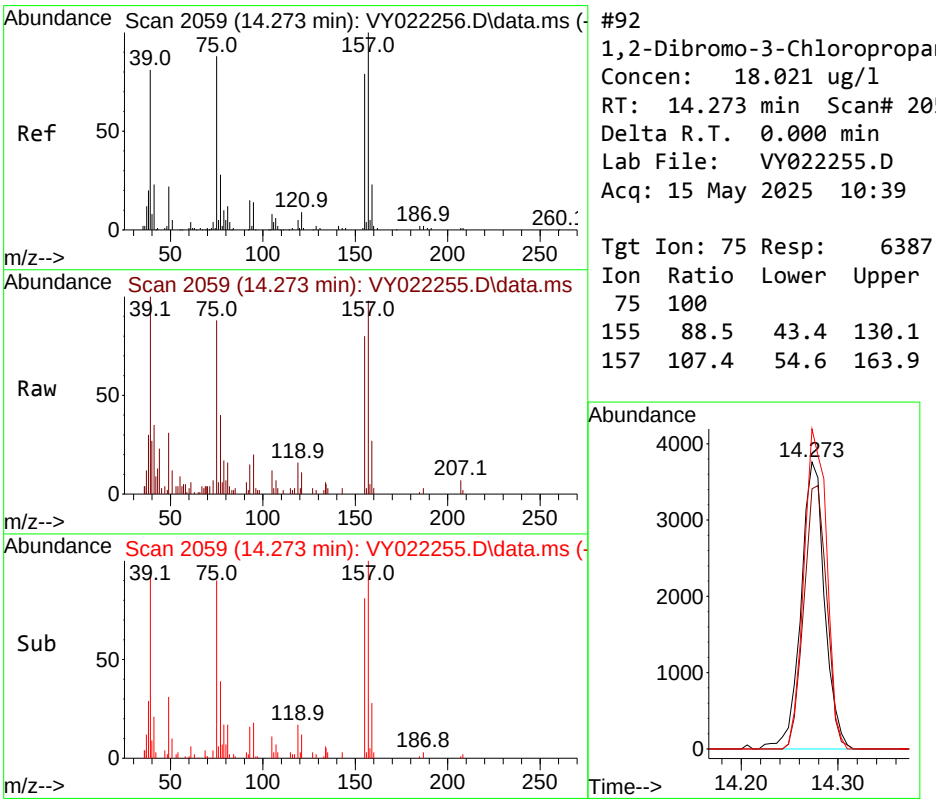
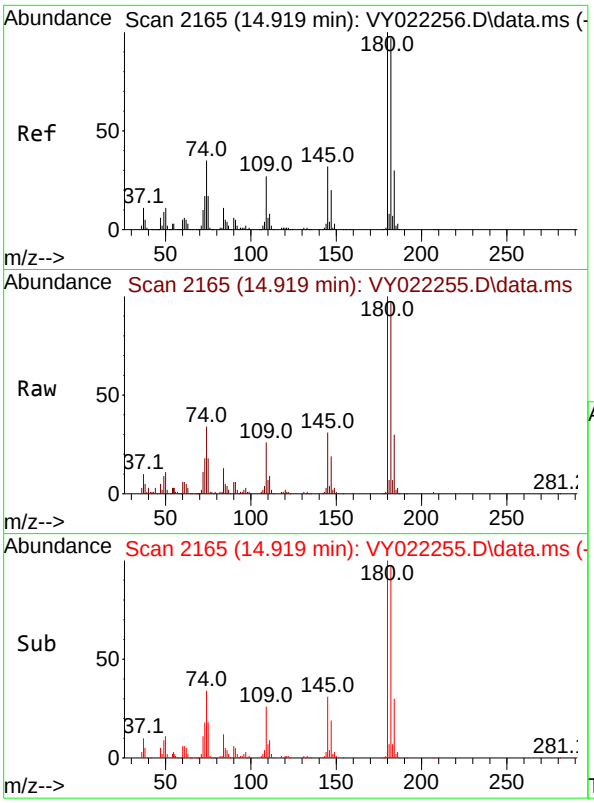



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.021 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 6387

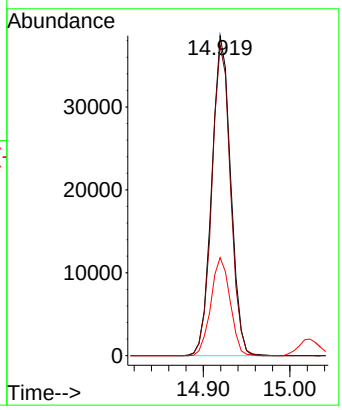
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 88.5 | 43.4 | 130.1 |
| 157 | 107.4 | 54.6 | 163.9 |




#93
1,2,4-Trichlorobenzene
Concen: 19.346 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:180 Resp: 5849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.9 | 48.0 | 144.0 |
| 145 | 31.1 | 15.0 | 45.1 |




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

**Manual Integrations**
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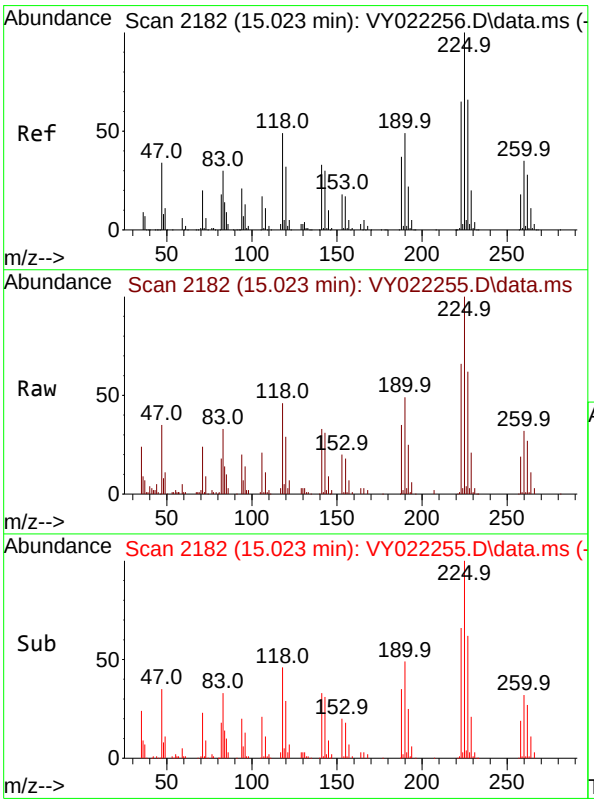
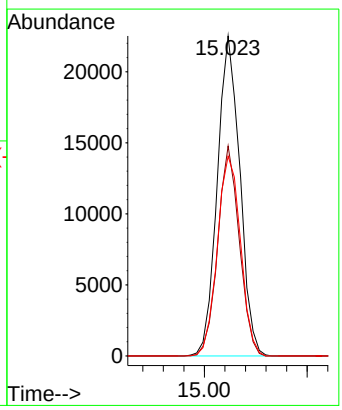
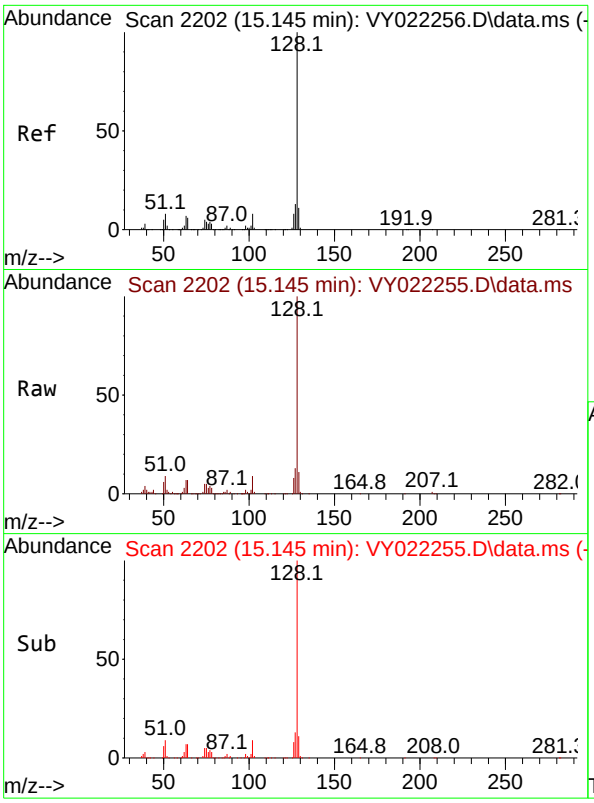



#94
Hexachlorobutadiene
Concen: 20.301 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:225 Resp: 34228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.7 | 31.5 | 94.5 |
| 227 | 64.3 | 32.1 | 96.3 |

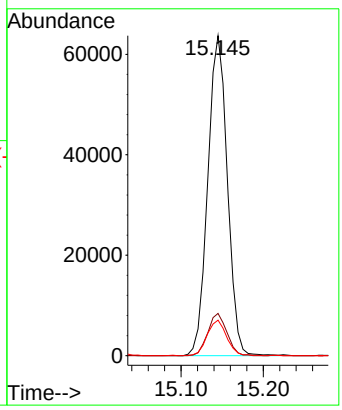





#95
Naphthalene
Concen: 18.362 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:128 Resp: 10535

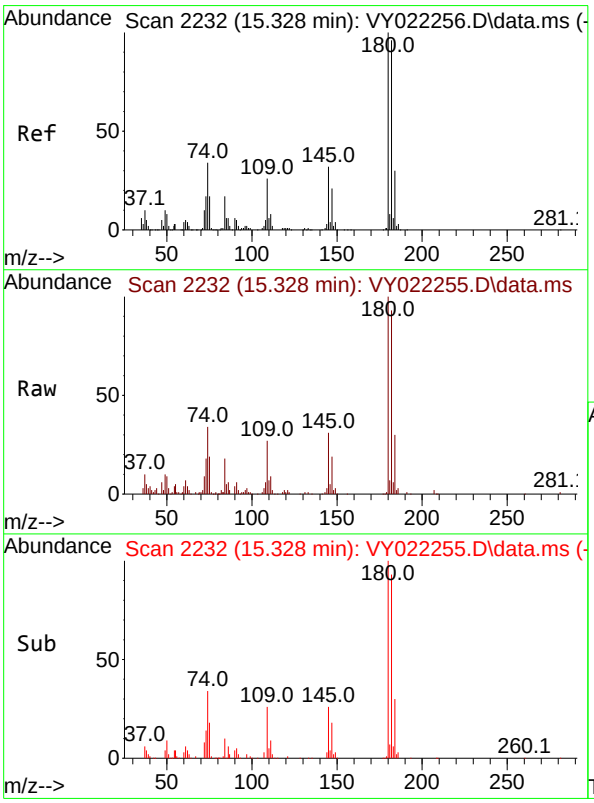
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.2 | 15.2 |
| 129 | 11.0 | 8.8 | 13.2 |




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

**Manual Integrations**
**APPROVED**

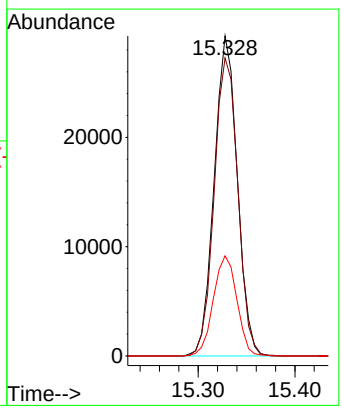
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025




#96
1,2,3-Trichlorobenzene
Concen: 18.888 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:180 Resp: 48444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 47.1 | 141.3 |
| 145 | 31.9 | 15.9 | 47.6 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022256.D
Acq On : 15 May 2025 11:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:23:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 267598 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 439323 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 377571 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 180358 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 144713 | 49.481 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 98.960% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 132404 | 50.495 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.980% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 540296 | 50.311 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 100.620% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 169827 | 49.891 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 99.780% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 135726 | 48.608 | ug/l | 100 |
| 3) Chloromethane | 2.062 | 50 | 278892 | 47.481 | ug/l | 100 |
| 4) Vinyl Chloride | 2.202 | 62 | 323792 | 49.341 | ug/l | 100 |
| 5) Bromomethane | 2.592 | 94 | 234736 | 43.941 | ug/l | 100 |
| 6) Chloroethane | 2.732 | 64 | 202370 | 49.569 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 324887 | 48.898 | ug/l | 100 |
| 8) Diethyl Ether | 3.452 | 74 | 78670 | 49.338 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 144018 | 49.930 | ug/l | 100 |
| 10) Methyl Iodide | 4.007 | 142 | 183918 | 55.091 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.872 | 59 | 51598 | 231.036 | ug/l # | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 144103 | 50.344 | ug/l | 100 |
| 13) Acrolein | 3.653 | 56 | 75423 | 231.010 | ug/l | 100 |
| 14) Allyl chloride | 4.379 | 41 | 256499 | 51.106 | ug/l | 100 |
| 15) Acrylonitrile | 5.061 | 53 | 160496 | 244.283 | ug/l | 100 |
| 16) Acetone | 3.873 | 43 | 124421 | 226.888 | ug/l | 100 |
| 17) Carbon Disulfide | 4.104 | 76 | 468979 | 50.244 | ug/l | 100 |
| 18) Methyl Acetate | 4.385 | 43 | 80820 | 48.436 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 390412 | 49.466 | ug/l | 100 |
| 20) Methylene Chloride | 4.616 | 84 | 159764 | 45.087 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 158544 | 50.181 | ug/l | 100 |
| 22) Diisopropyl ether | 6.019 | 45 | 531560 | 50.152 | ug/l | 100 |
| 23) Vinyl Acetate | 5.958 | 43 | 1570214 | 245.223 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 298823 | 50.465 | ug/l | 100 |
| 25) 2-Butanone | 6.896 | 43 | 215828 | 235.291 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 264141 | 50.153 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 184842 | 50.698 | ug/l | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 126541 | 50.100 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.262 | 42 | 142772 | 241.931 | ug/l | 100 |
| 30) Chloroform | 7.421 | 83 | 288708 | 50.831 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 282375 | 47.728 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 259382 | 49.777 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 221943 | 51.388 | ug/l | 100 |
| 37) Ethyl Acetate | 6.988 | 43 | 102924 | 49.529 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 226903 | 50.754 | ug/l | 100 |
| 39) Methylcyclohexane | 9.109 | 83 | 294336 | 50.726 | ug/l | 100 |
| 40) Benzene | 8.079 | 78 | 658644 | 51.442 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022256.D
Acq On : 15 May 2025 11:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 16 01:23:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 69476m | 45.691 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 176425 | 50.954 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 225628 | 49.785 | ug/l | | 100 |
| 44) Trichloroethene | 8.866 | 130 | 162802 | 51.138 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 156870 | 50.819 | ug/l | | 100 |
| 46) Dibromomethane | 9.231 | 93 | 82994 | 49.849 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.420 | 83 | 222159 | 51.435 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.219 | 41 | 105390 | 49.726 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.231 | 88 | 18027 | 958.446 | ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 556123 | 250.085 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 414584 | 51.134 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 213993 | 50.768 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 246990 | 51.143 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 106676 | 50.036 | ug/l | | 100 |
| 56) Ethyl methacrylate | 10.438 | 69 | 167259 | 50.364 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 192275 | 50.759 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 403074 | 270.408 | ug/l | | 100 |
| 59) 2-Hexanone | 10.762 | 43 | 365111 | 244.881 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 141896 | 51.278 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 99822 | 50.236 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 178854 | 51.249 | ug/l | | 100 |
| 65) Chlorobenzene | 11.438 | 112 | 435874 | 51.169 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 148798 | 50.811 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.518 | 91 | 821168 | 51.473 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 617646 | 102.746 | ug/l | | 100 |
| 69) o-Xylene | 11.950 | 106 | 289897 | 50.971 | ug/l | | 100 |
| 70) Styrene | 11.969 | 104 | 491792 | 51.260 | ug/l | | 100 |
| 71) Bromoform | 12.133 | 173 | 78794 | 49.849 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 756905 | 50.657 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 209097 | 48.930 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 113234 | 49.277 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 90281m | 28.402 | ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 161475 | 50.599 | ug/l | | 100 |
| 78) n-propylbenzene | 12.597 | 91 | 924664 | 51.306 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 505684 | 51.058 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 615033 | 50.991 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 42692 | 47.331 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 524270 | 51.464 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 546231 | 50.952 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 615550 | 51.410 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 824725 | 51.825 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 688561 | 51.446 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 331536 | 50.890 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 315598 | 50.363 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.615 | 91 | 661532 | 52.245 | ug/l | | 100 |
| 90) Hexachloroethane | 13.877 | 117 | 137225 | 50.791 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 276666 | 50.558 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 18039 | 48.682 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 162275 | 51.338 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 90452 | 51.313 | ug/l | | 100 |
| 95) Naphthalene | 15.145 | 128 | 298075 | 49.692 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 135673 | 50.596 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022256.D
Acq On : 15 May 2025 11:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:23:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 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

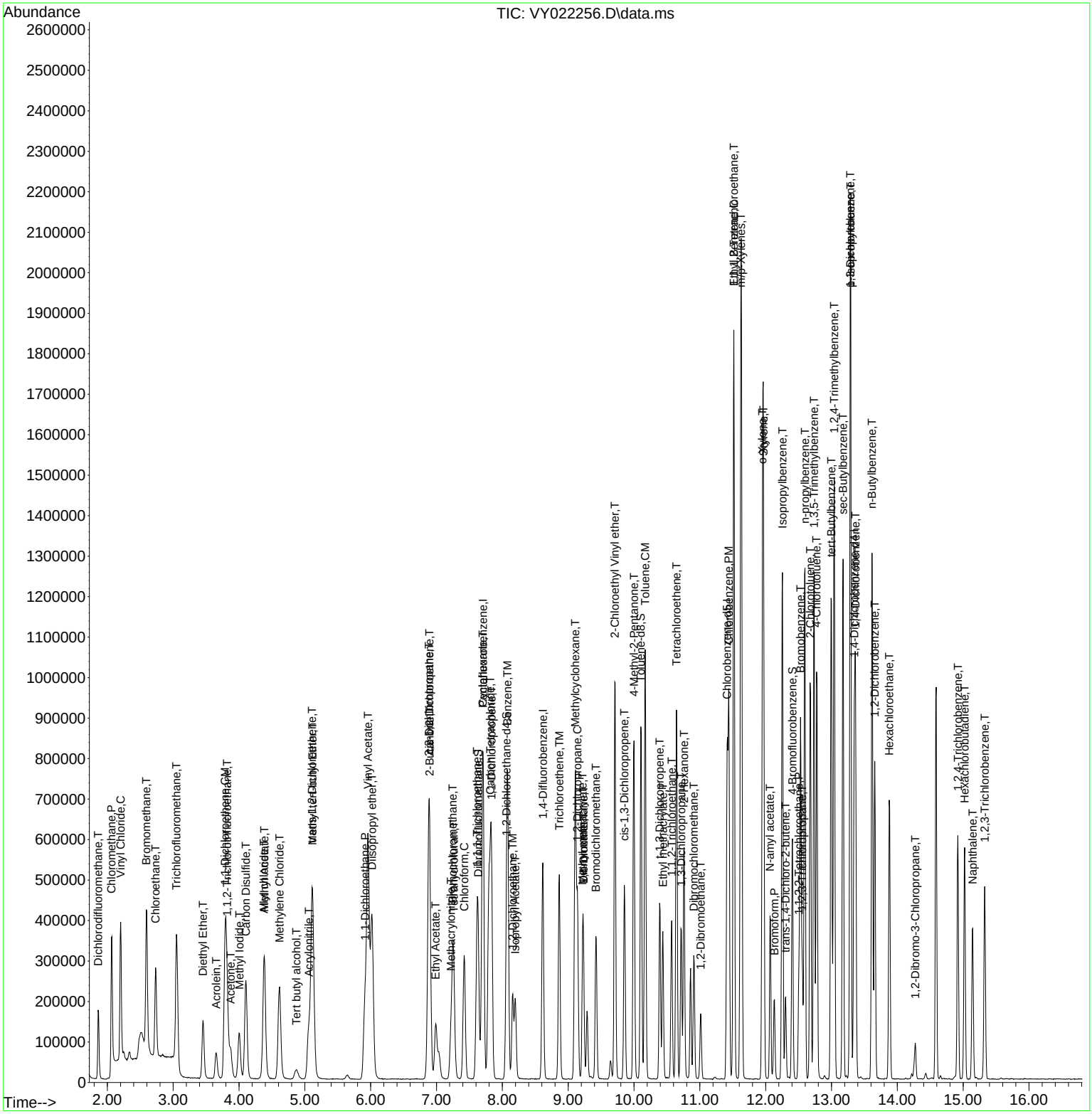
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022256.D
Acq On : 15 May 2025 11:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

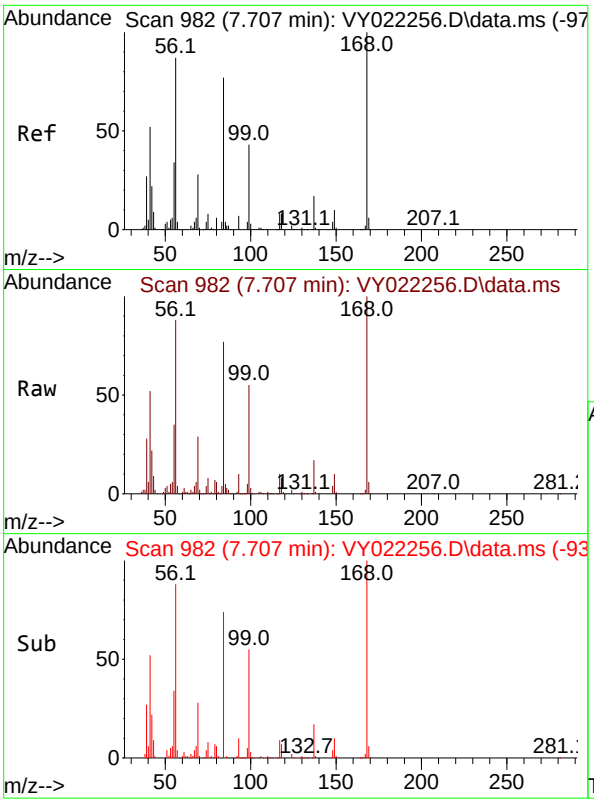
Quant Time: May 16 01:23:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

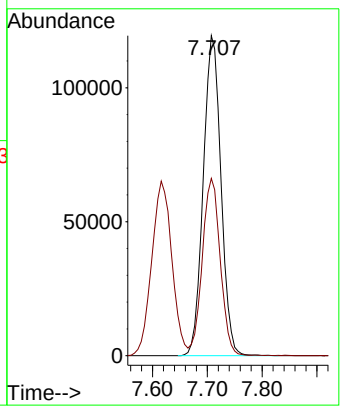





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:168 Resp: 26759

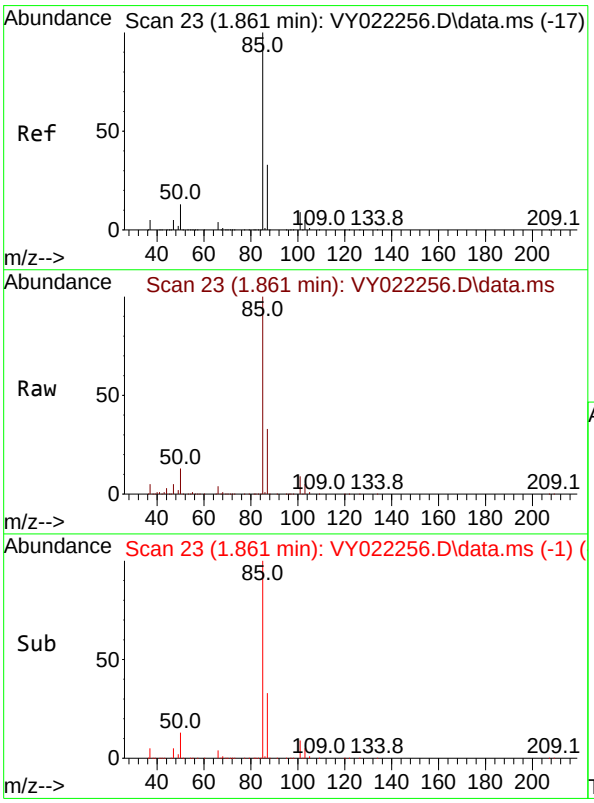
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.3 | 44.2 | 66.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

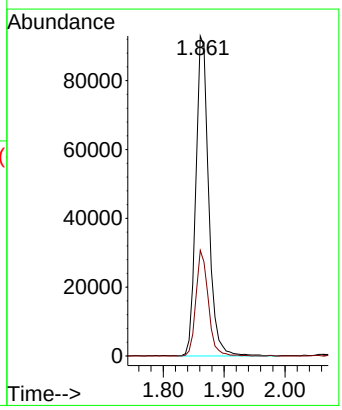
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

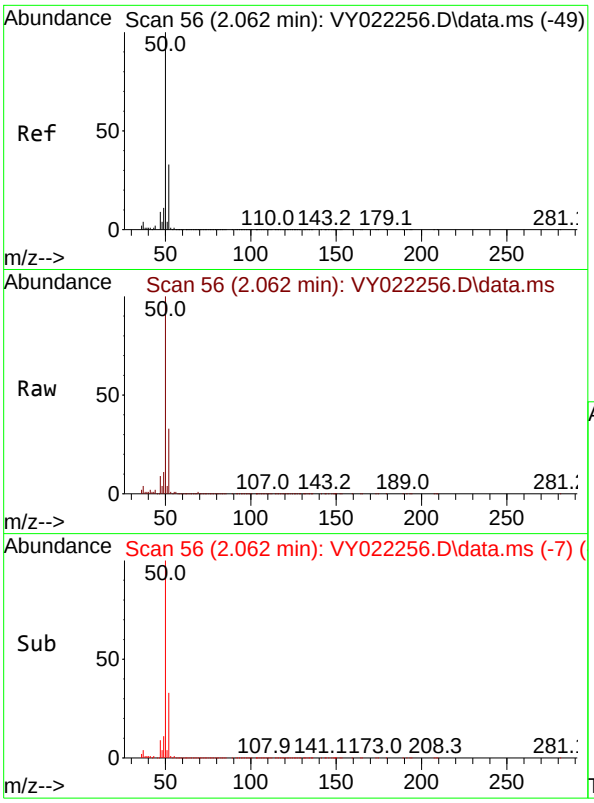



#2
Dichlorodifluoromethane
Concen: 48.608 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 85 Resp: 135726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.0 | 16.5 | 49.5 |






#3
Chloromethane
Concen: 47.481 ug/l
RT: 2.062 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

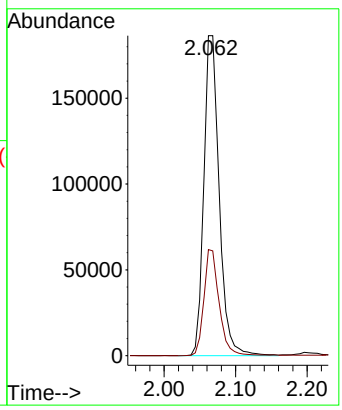
Tgt Ion: 50 Resp: 27889

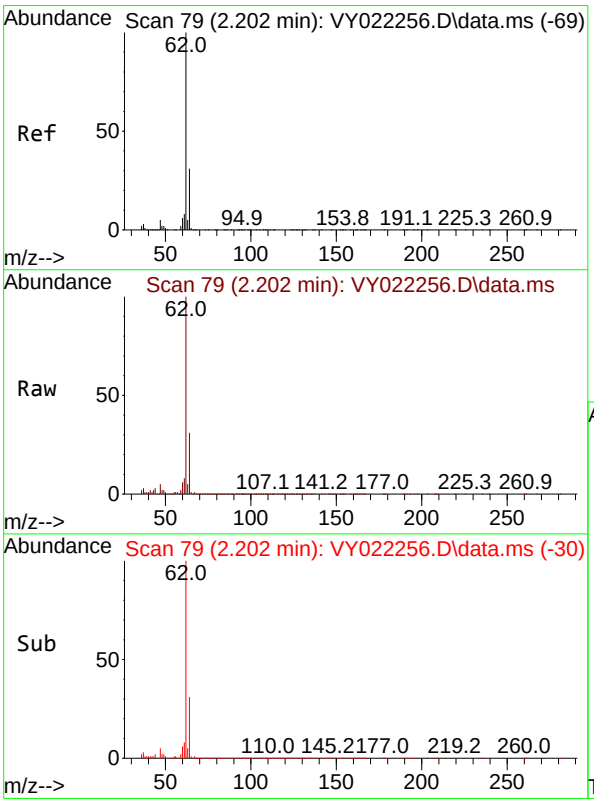
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.1 | 26.5 | 39.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

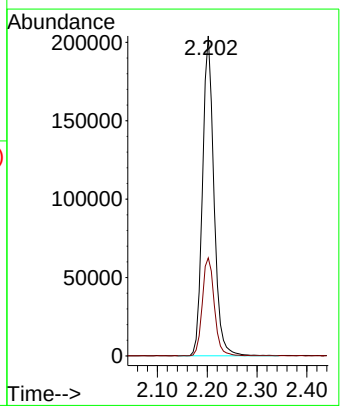


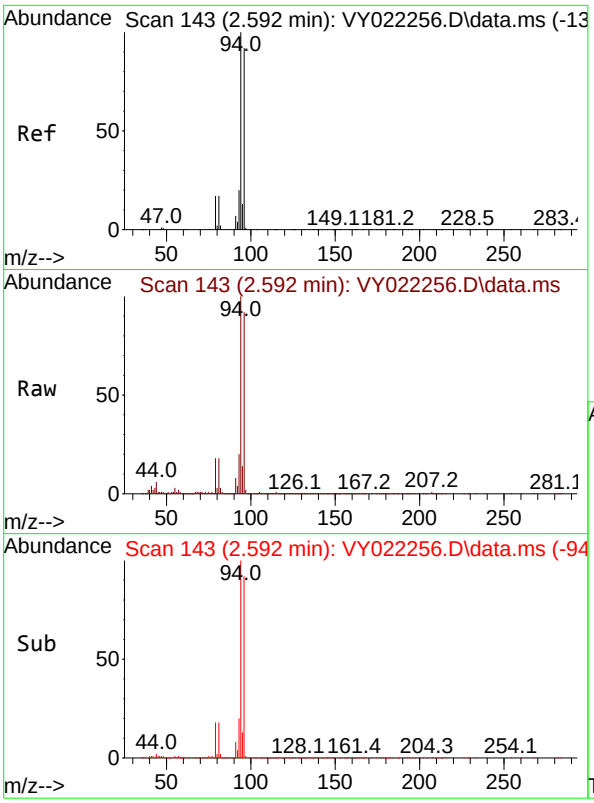




#4
Vinyl Chloride
Concen: 49.341 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 62 Resp: 323792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.6 | 24.5 | 36.7 |






#5
Bromomethane
Concen: 43.941 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

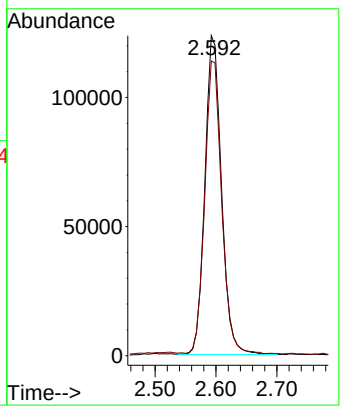
Tgt Ion: 94 Resp: 23473

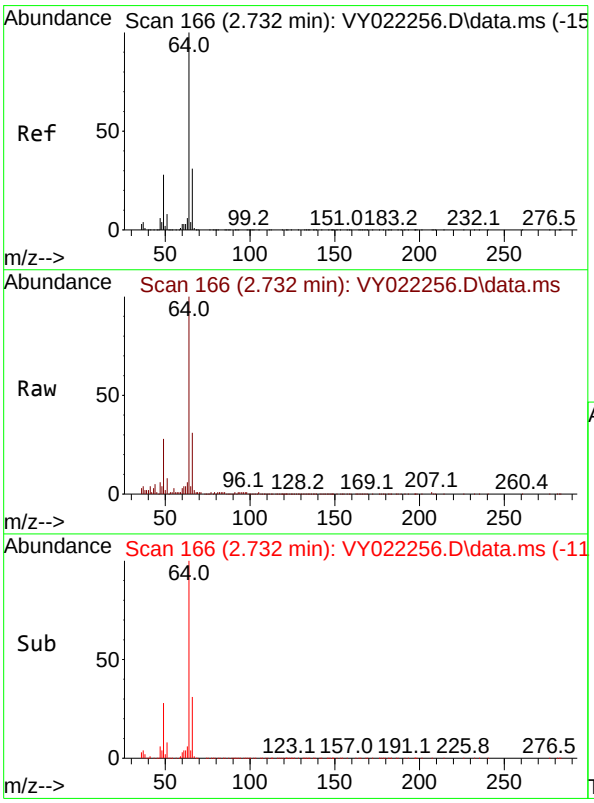
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.7 | 73.4 | 110.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

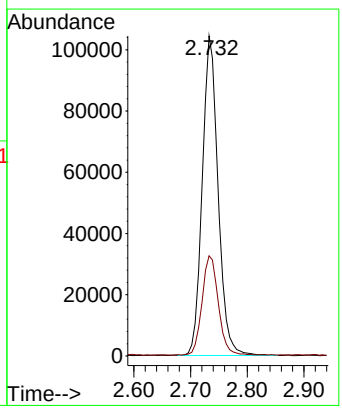


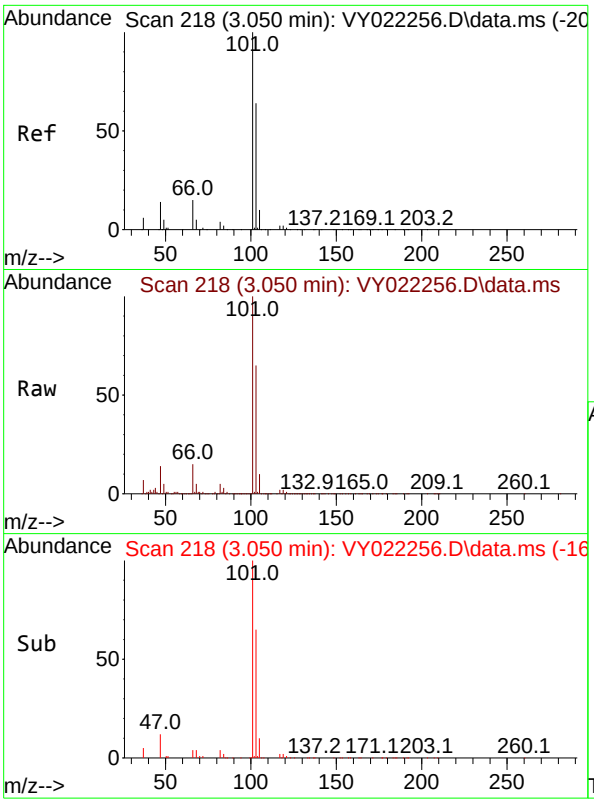




#6
Chloroethane
Concen: 49.569 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 64 Resp: 202370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.0 | 24.8 | 37.2 |

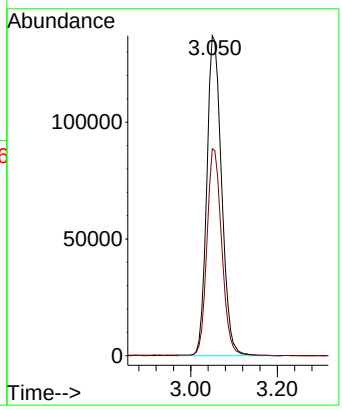





#7
Trichlorofluoromethane
Concen: 48.898 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:101 Resp: 32488

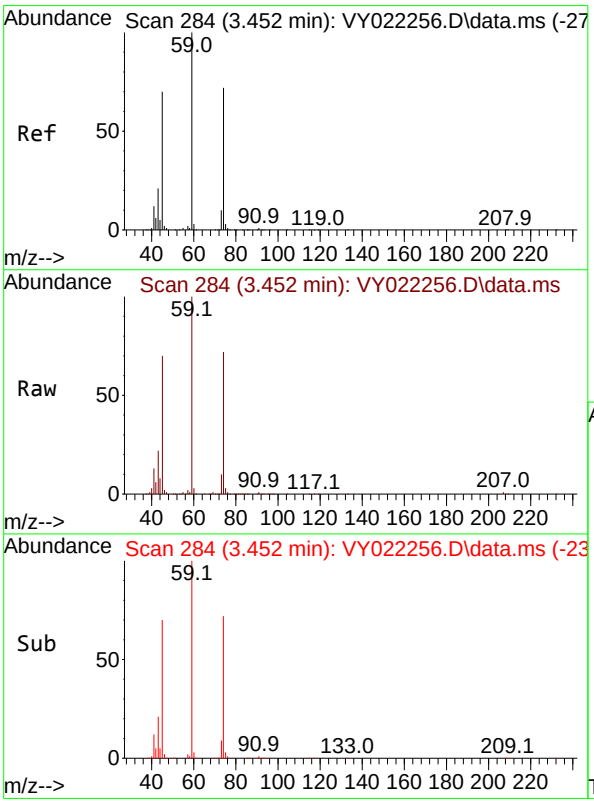
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.6 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

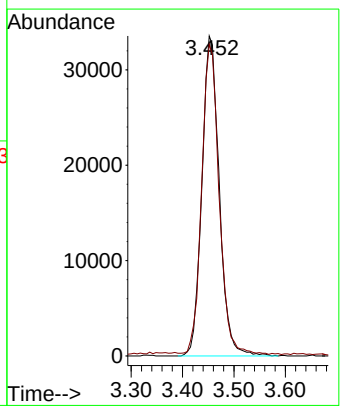
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

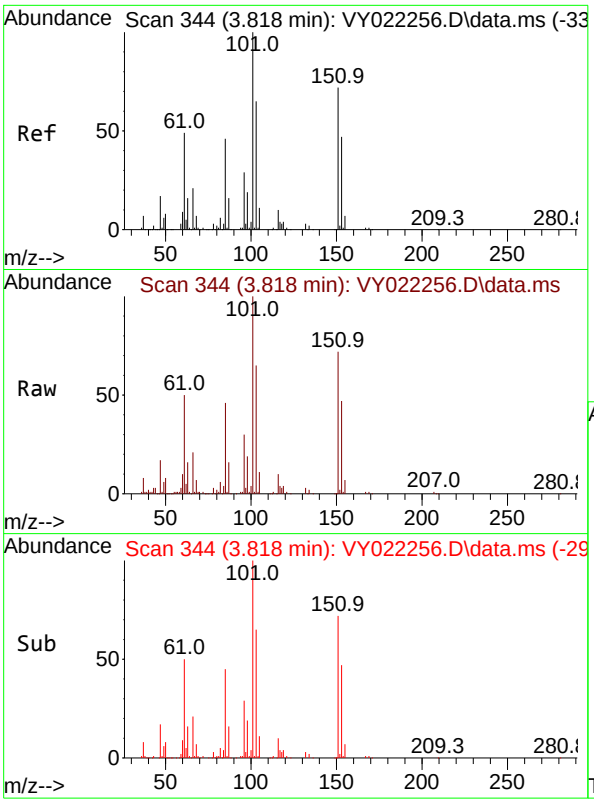



#8
Diethyl Ether
Concen: 49.338 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 74 Resp: 78670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 97.2 | 48.6 | 145.8 |

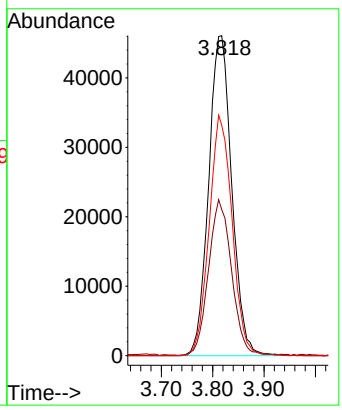





#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.930 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:101 Resp: 144018

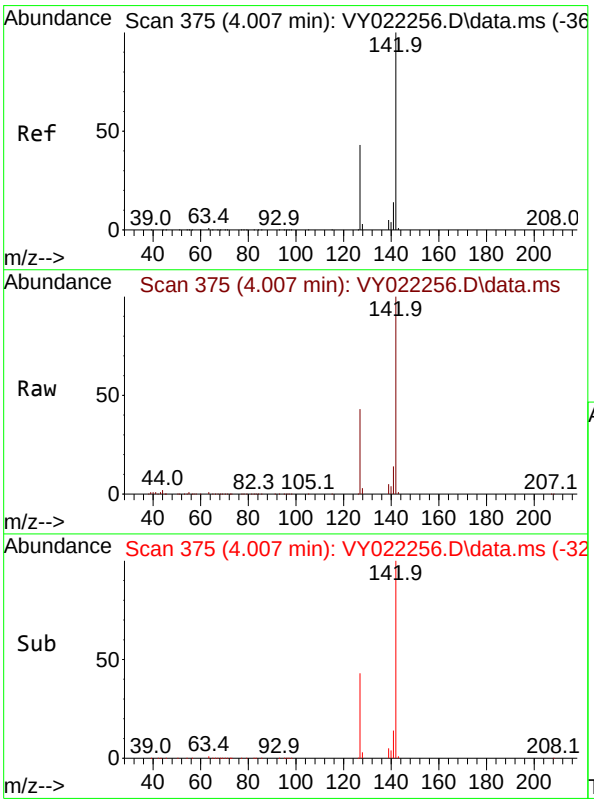
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 48.3 | 38.6 | 58.0 |
| 151 | 74.6 | 59.7 | 89.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

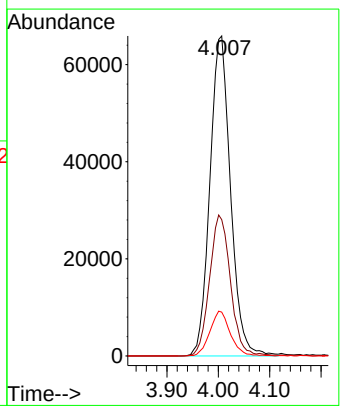
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

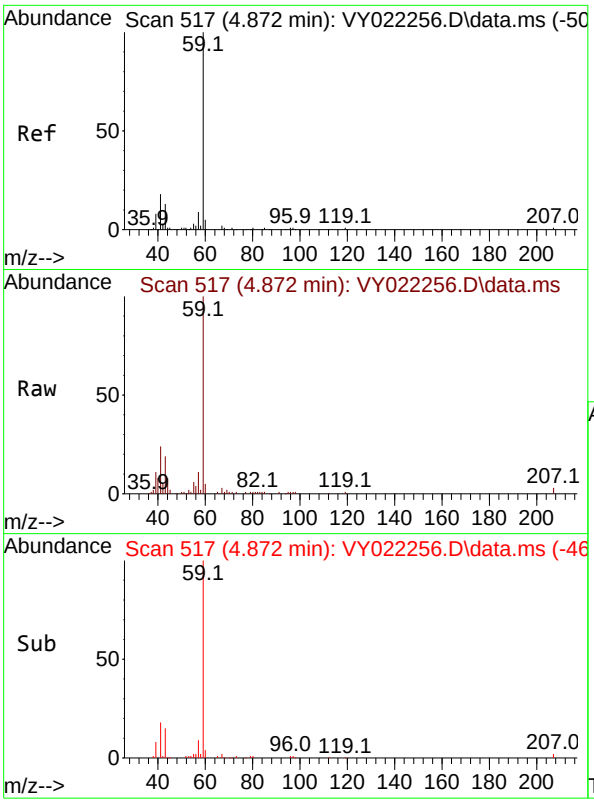



#10
Methyl Iodide
Concen: 55.091 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:142 Resp: 183918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.6 | 35.7 | 53.5 |
| 141 | 13.9 | 11.1 | 16.7 |






#11
Tert butyl alcohol
Concen: 231.036 ug/l
RT: 4.872 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

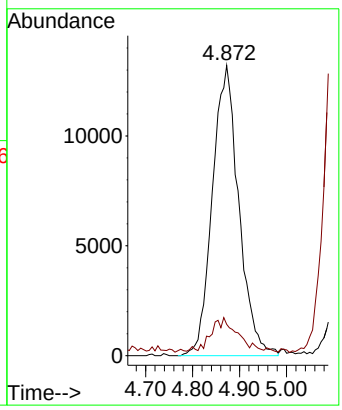
Tgt Ion: 59 Resp: 5159

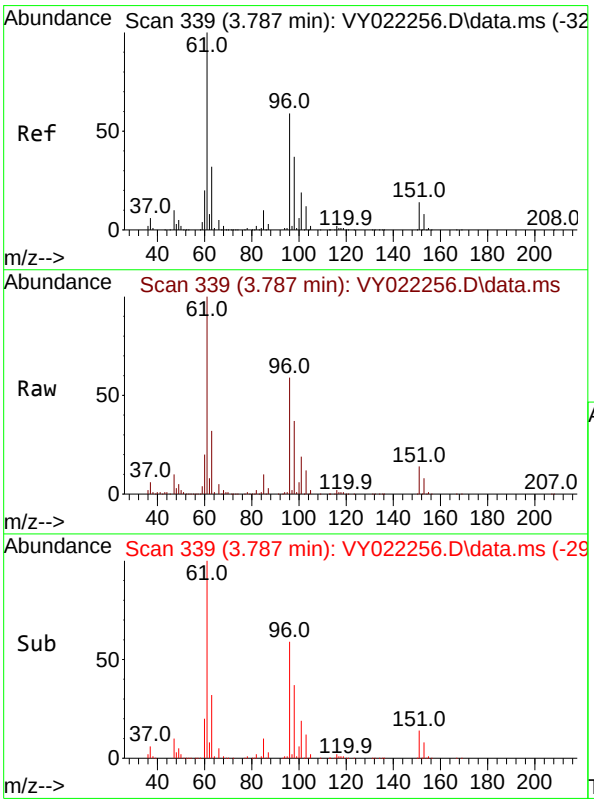
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 0.0 | 0.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

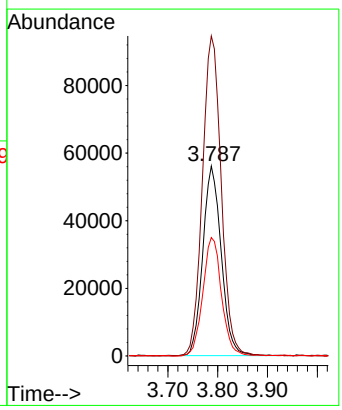


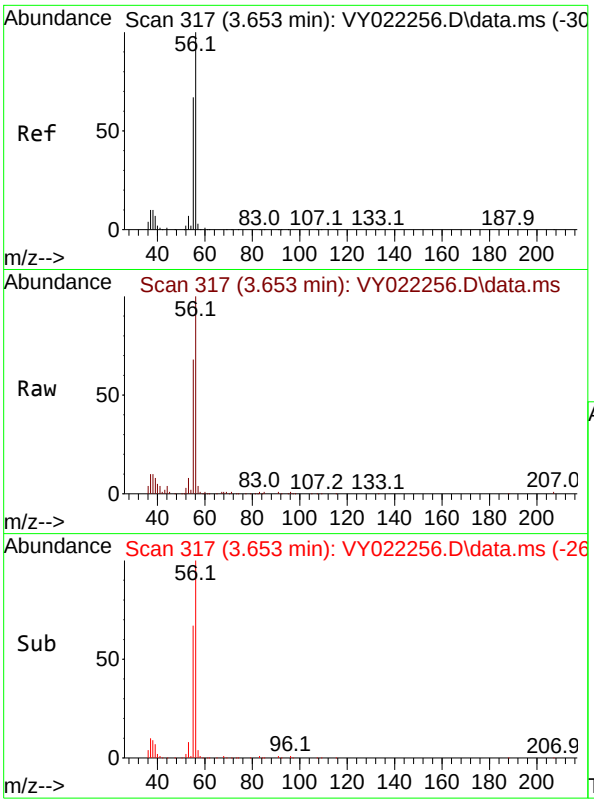




#12
1,1-Dichloroethene
Concen: 50.344 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 96 Resp: 144103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 168.6 | 134.9 | 202.3 |
| 98 | 62.4 | 49.9 | 74.9 |






#13
Acrolein
Concen: 231.010 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 56 Resp: 7542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.5 | 55.6 | 83.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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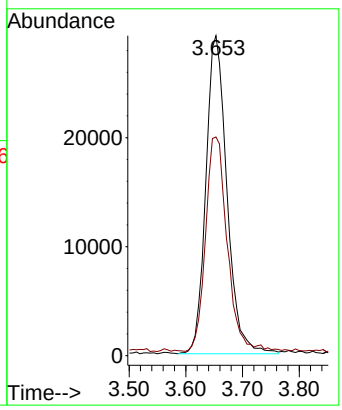
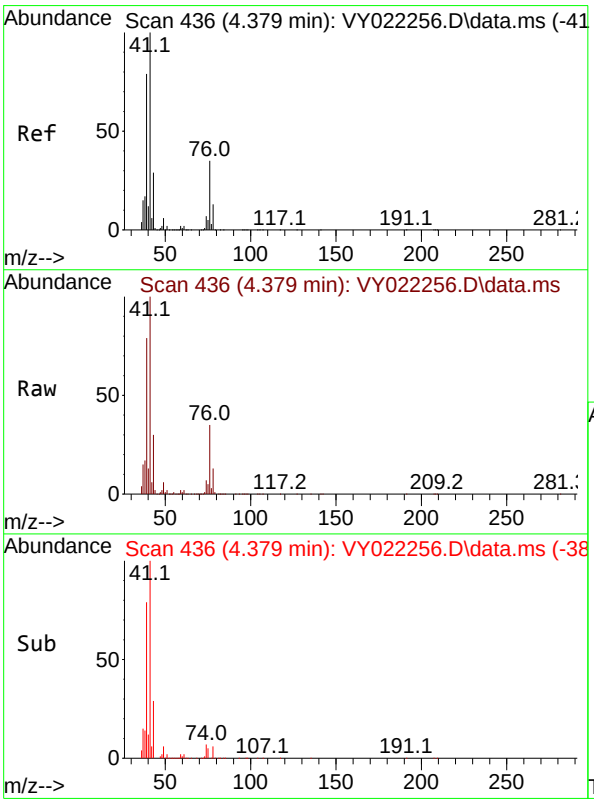
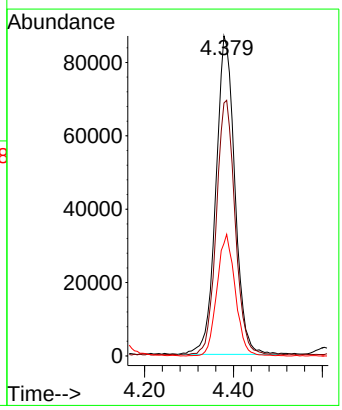


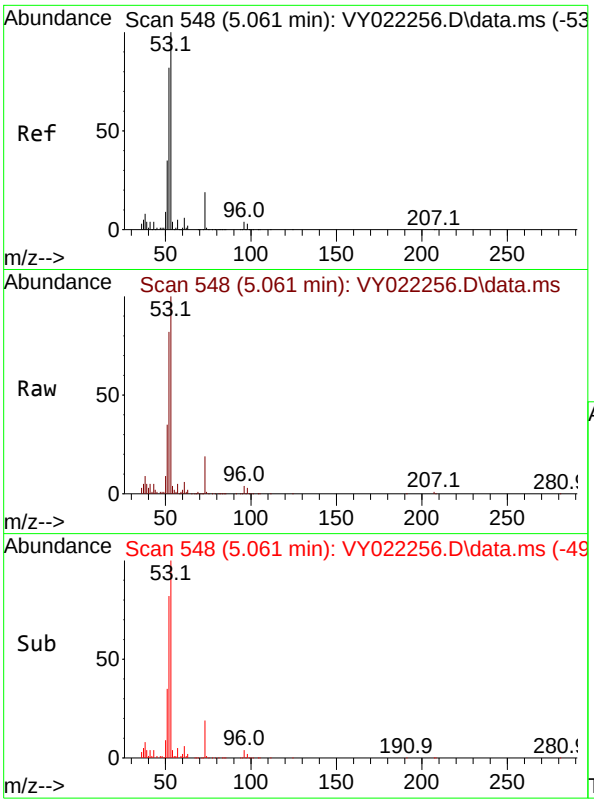




#14
Allyl chloride
Concen: 51.106 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 41 Resp: 256499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 79.2 | 63.4 | 95.0 |
| 76 | 36.9 | 29.5 | 44.3 |

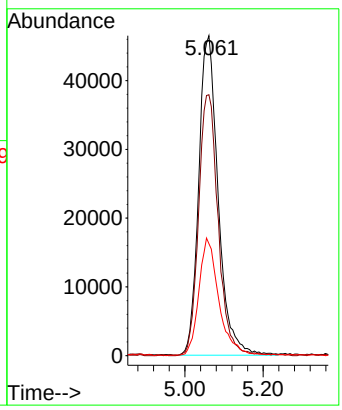





#15
Acrylonitrile
Concen: 244.283 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 53 Resp: 16049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.6 | 66.1 | 99.1 |
| 51 | 37.5 | 30.0 | 45.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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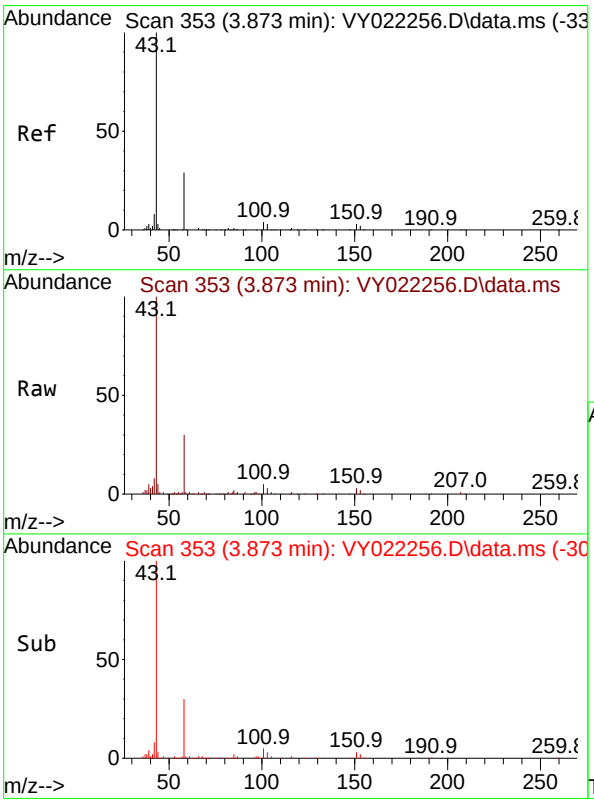
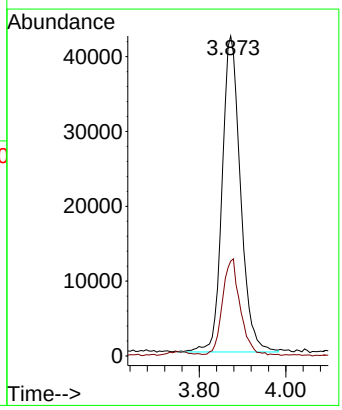
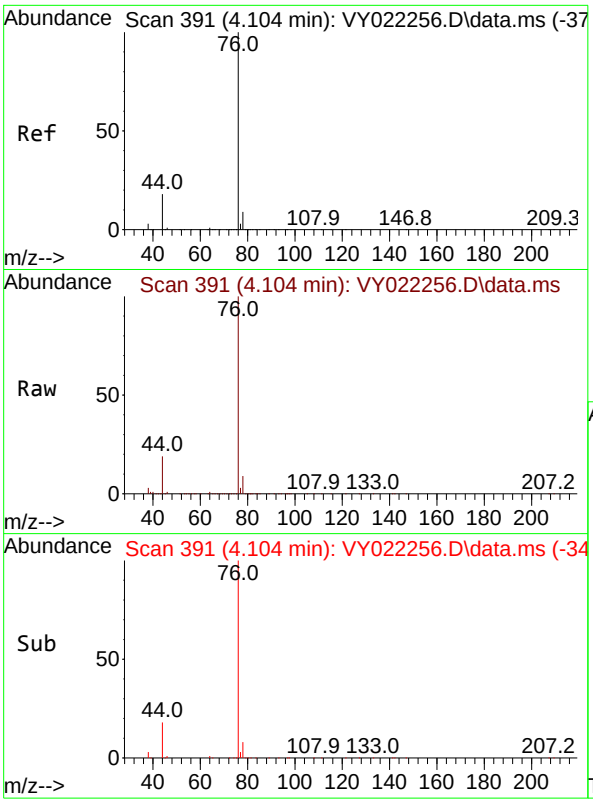



#16
Acetone
Concen: 226.888 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 124421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.5 | 23.6 | 35.4 |

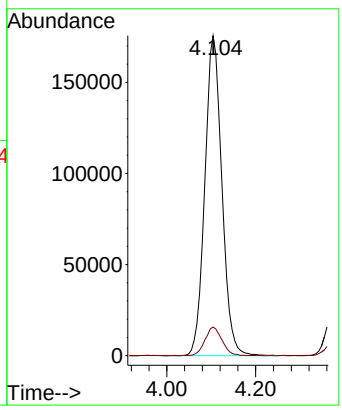





#17
Carbon Disulfide
Concen: 50.244 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 76 Resp: 46897

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




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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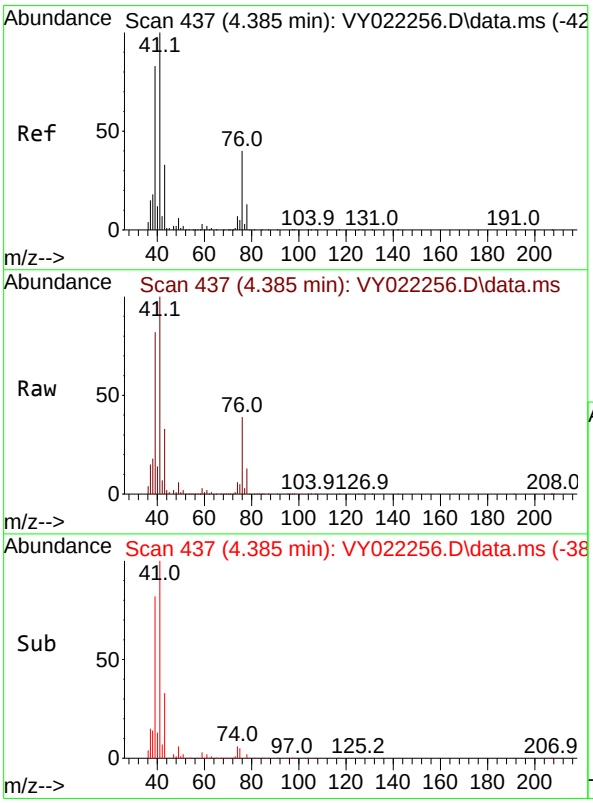
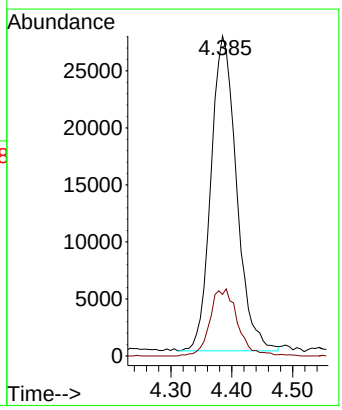
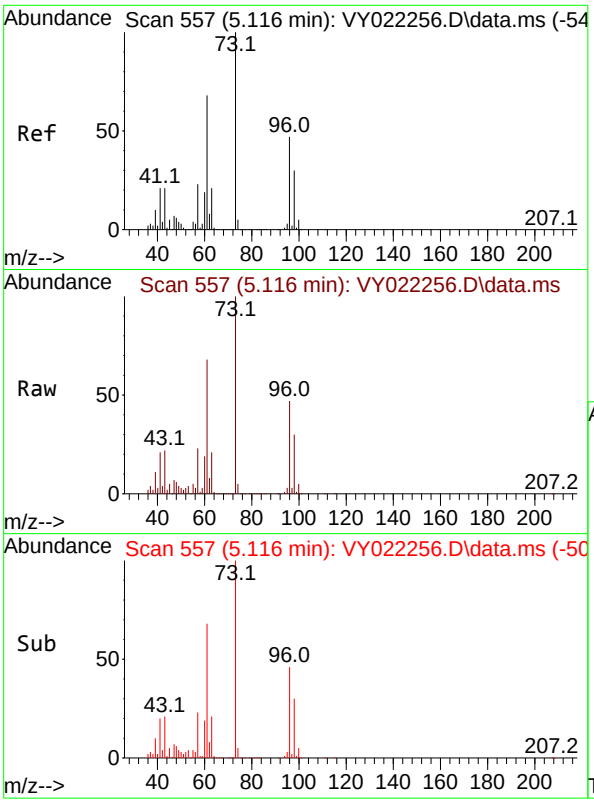



#18
Methyl Acetate
Concen: 48.436 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 80820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 22.8 | 18.2 | 27.4 |

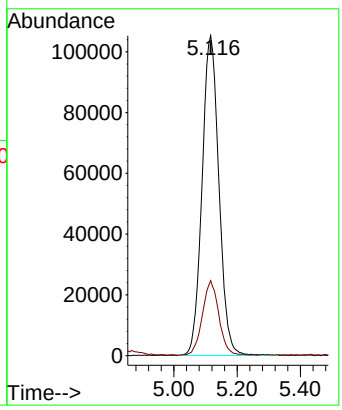





#19
Methyl tert-butyl Ether
Concen: 49.466 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 73 Resp: 39041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.3 | 18.6 | 28.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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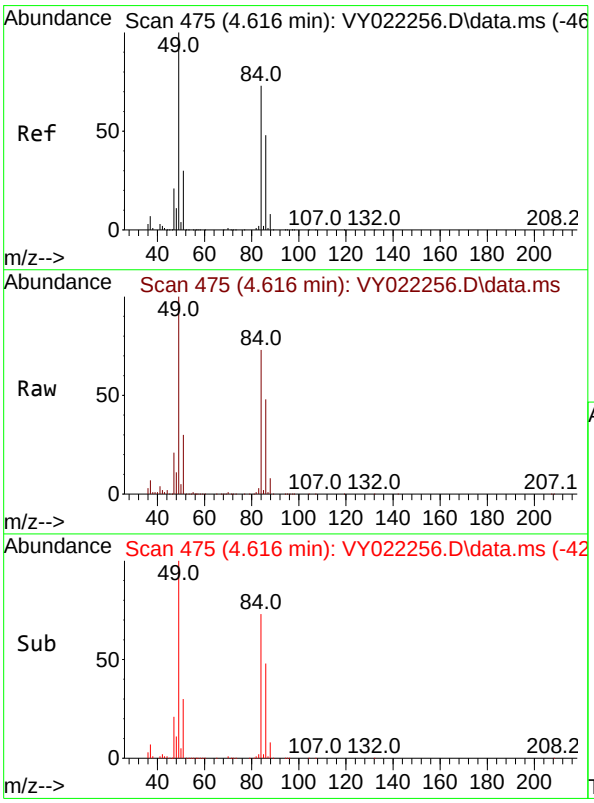
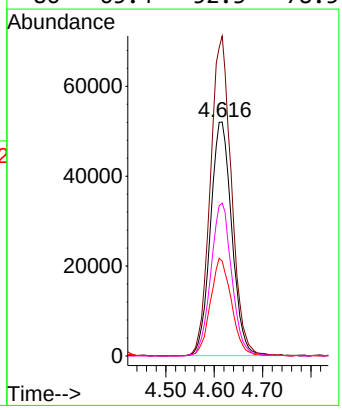
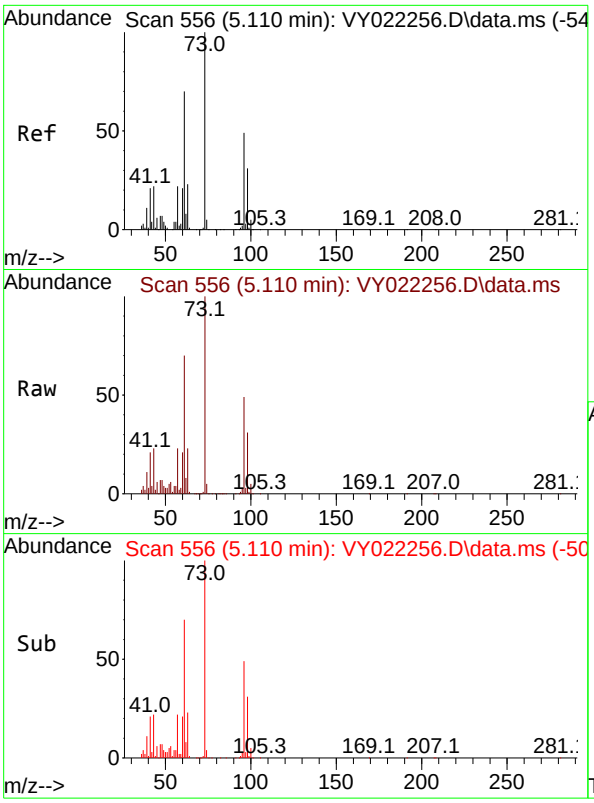



#20
Methylene Chloride
Concen: 45.087 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 84 Resp: 159764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 137.0 | 109.6 | 164.4 |
| 51 | 40.5 | 32.4 | 48.6 |
| 86 | 65.4 | 52.3 | 78.5 |

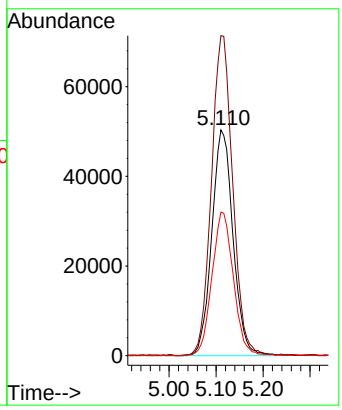





#21
trans-1,2-Dichloroethene
Concen: 50.181 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 96 Resp: 15854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.7 | 113.4 | 170.0 |
| 98 | 63.6 | 50.9 | 76.3 |




**Instrument :**
MSVOA_Y
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VSTDICCC050

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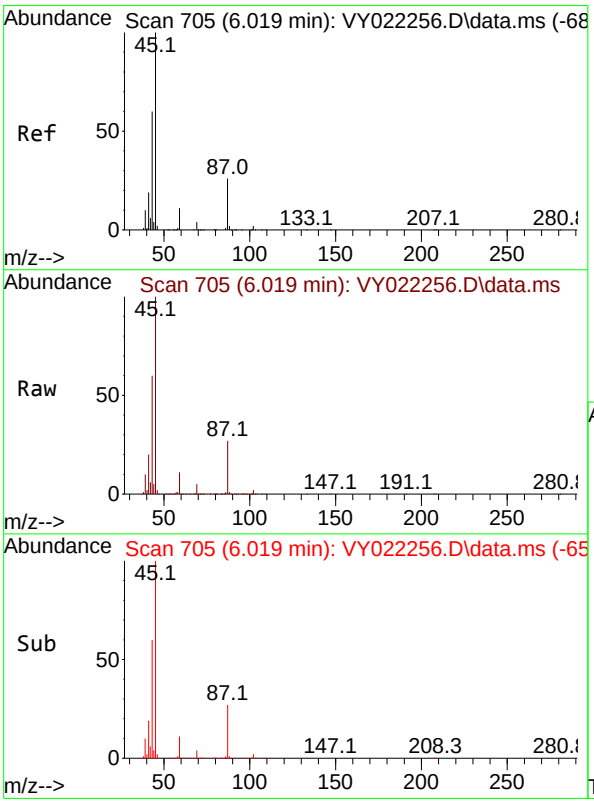
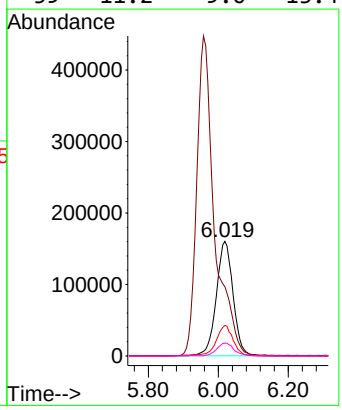
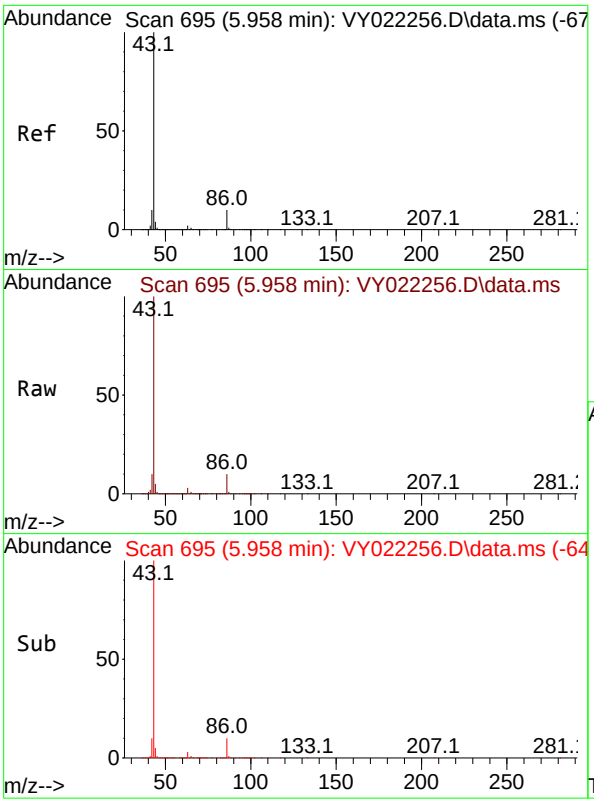



#22
Diisopropyl ether
Concen: 50.152 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 45 Resp: 531560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 60.2 | 48.2 | 72.2 |
| 87 | 26.7 | 21.4 | 32.0 |
| 59 | 11.2 | 9.0 | 13.4 |

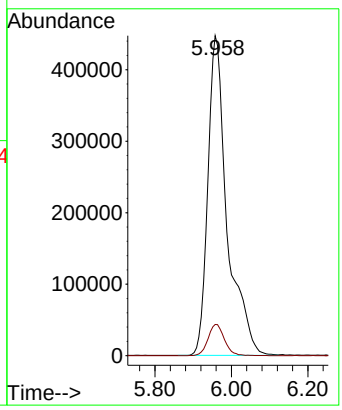





#23
Vinyl Acetate
Concen: 245.223 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 157021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.8 | 7.8 | 11.8 |

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MSVOA_Y
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VSTDICCC050

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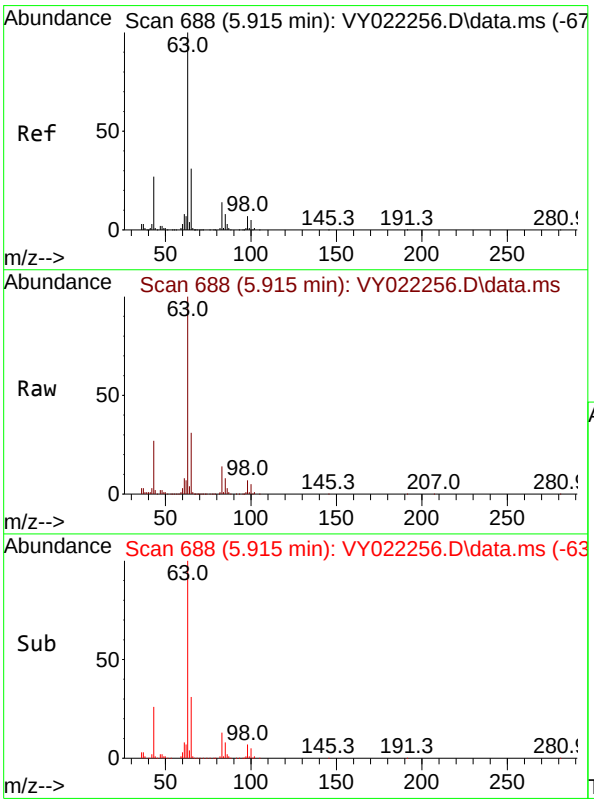
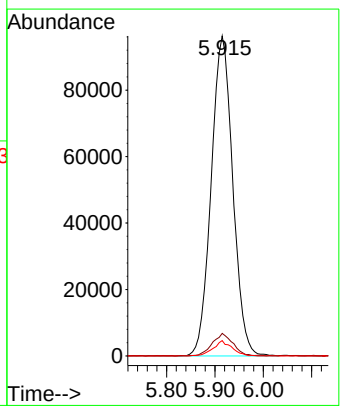
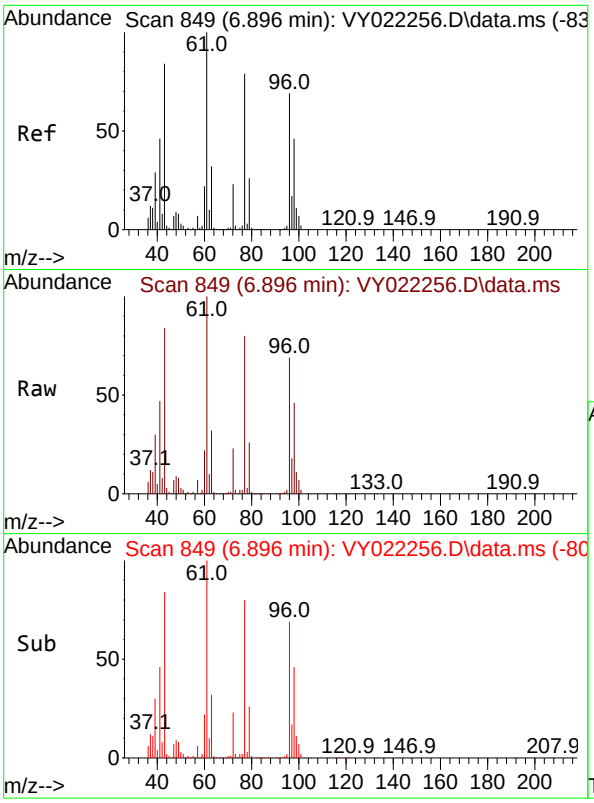



#24
1,1-Dichloroethane
Concen: 50.465 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 63 Resp: 298823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.0 | 3.5 | 10.5 |
| 100 | 4.8 | 2.4 | 7.2 |






#25
2-Butanone
Concen: 235.291 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 21582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.6 | 22.1 | 33.1 |

**Instrument :**
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VSTDICCC050

**Manual Integrations**
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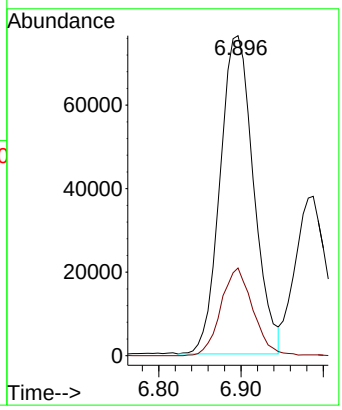
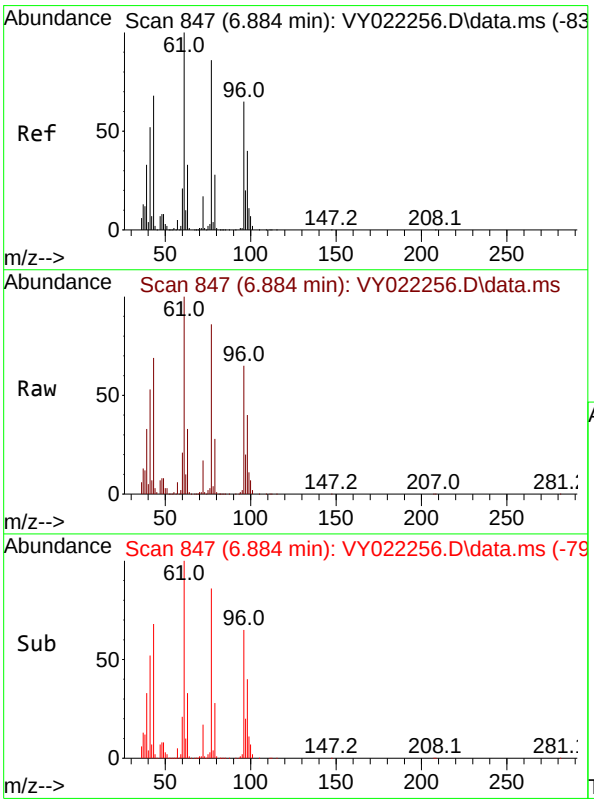
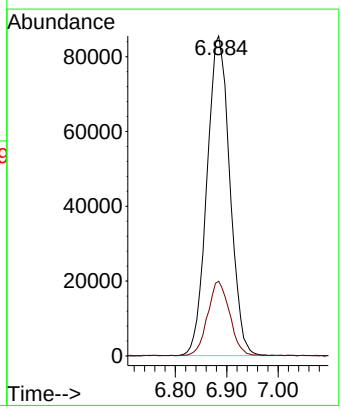


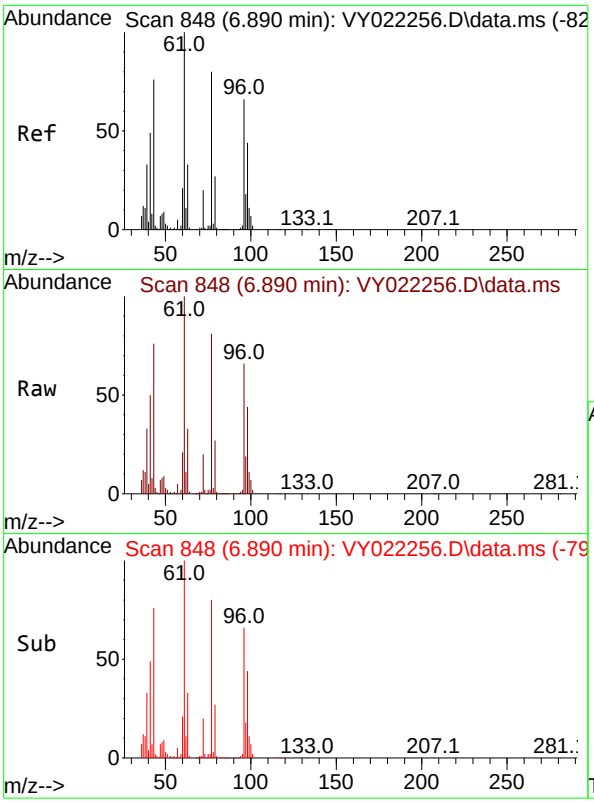




#26
2,2-Dichloropropane
Concen: 50.153 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 77 Resp: 264141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.3 | 11.2 | 33.5 |

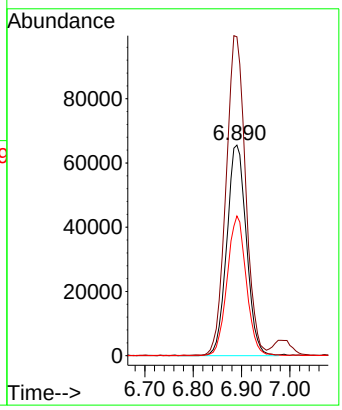





#27
cis-1,2-Dichloroethene
Concen: 50.698 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 96 Resp: 18484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 151.3 | 0.0 | 302.6 |
| 98 | 64.4 | 0.0 | 128.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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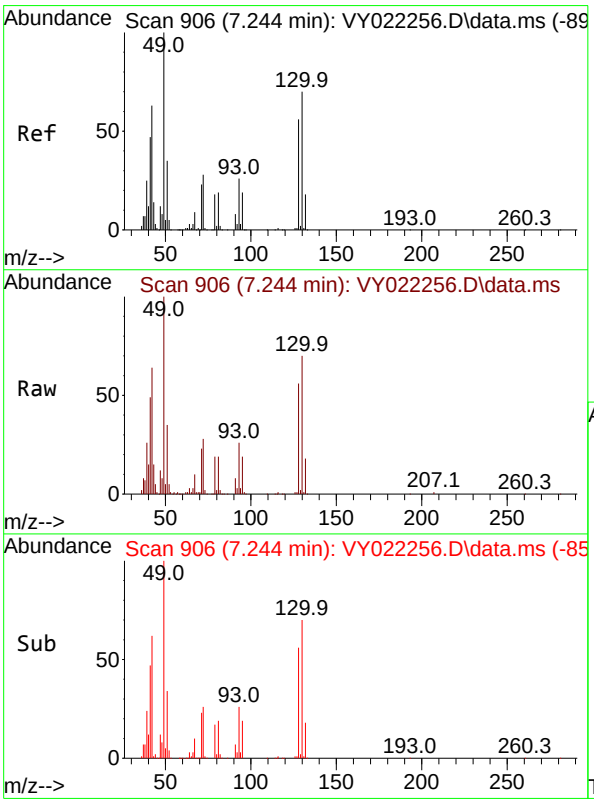
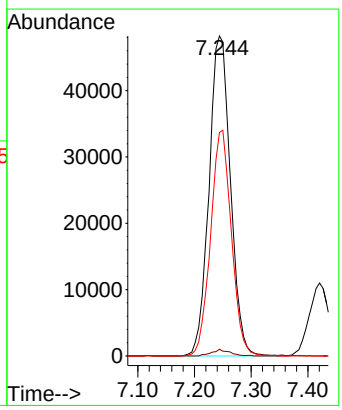
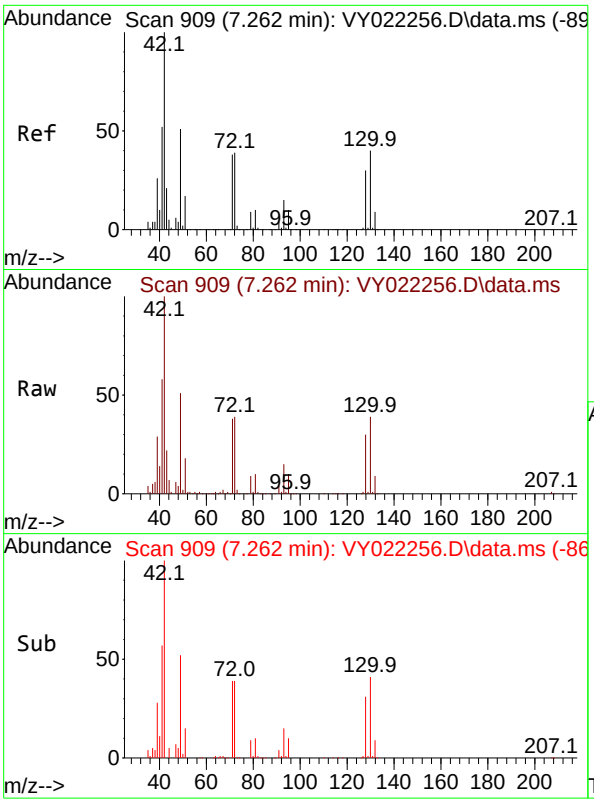



#28
Bromochloromethane
Concen: 50.100 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 49 Resp: 126541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 3.6 |
| 130 | 68.4 | 54.7 | 82.1 |

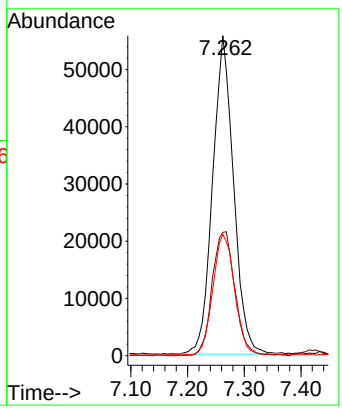





#29
Tetrahydrofuran
Concen: 241.931 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 42 Resp: 14277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.2 | 33.8 | 50.6 |
| 71 | 39.4 | 31.5 | 47.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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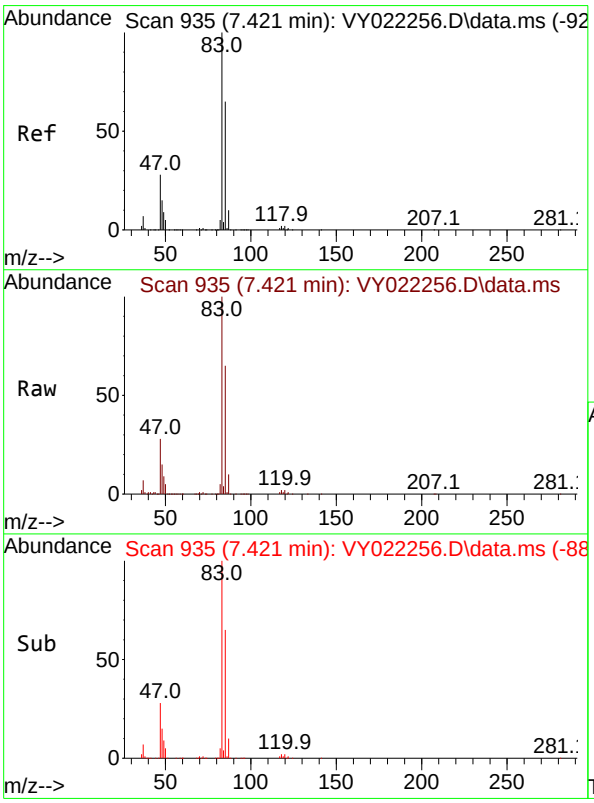
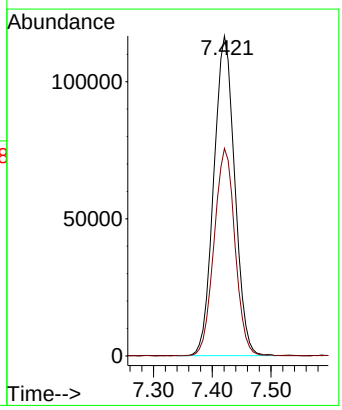
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

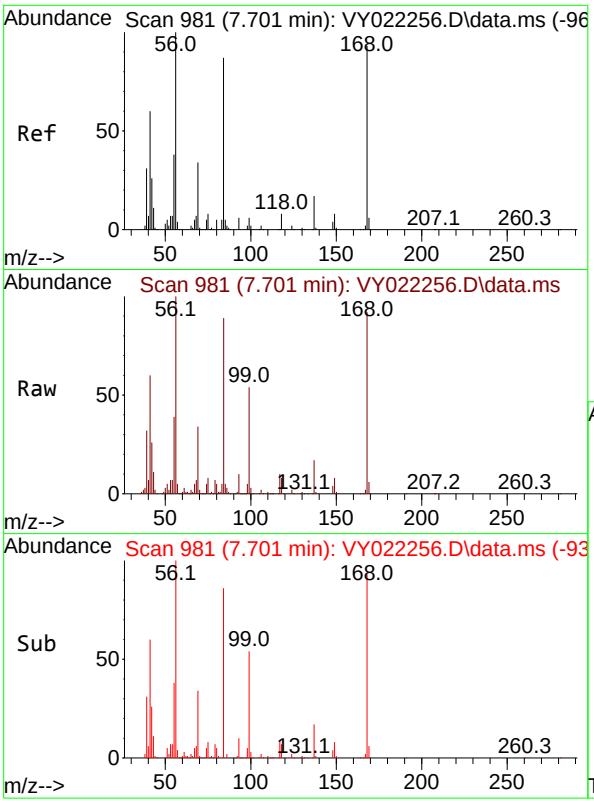



#30
Chloroform
Concen: 50.831 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 83 Resp: 288708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.8 | 51.8 | 77.8 |

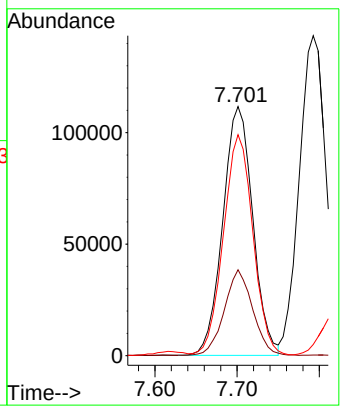





#31
Cyclohexane
Concen: 47.728 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 56 Resp: 28237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.3 | 27.4 | 41.2 |
| 84 | 87.5 | 70.0 | 105.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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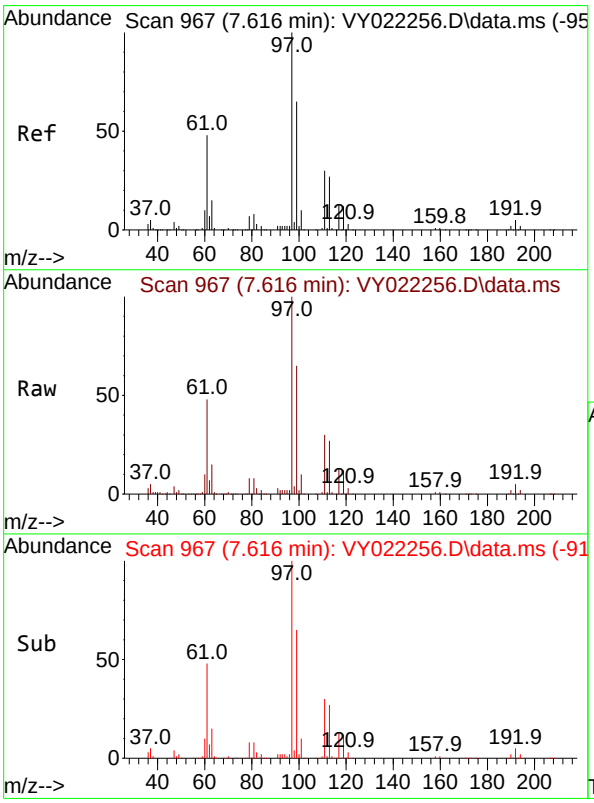
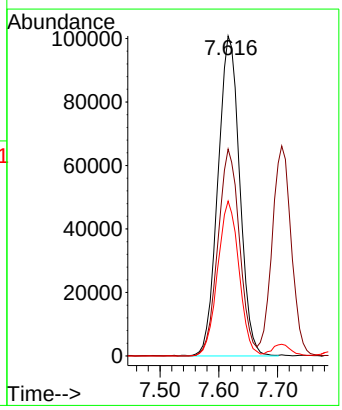
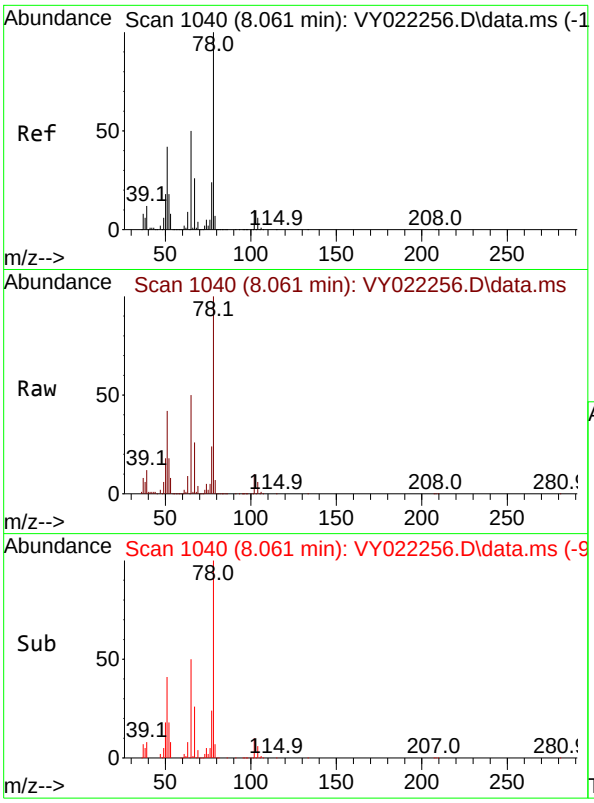



#32
1,1,1-Trichloroethane
Concen: 49.777 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 97 Resp: 259382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.2 | 51.4 | 77.0 |
| 61 | 47.6 | 38.1 | 57.1 |

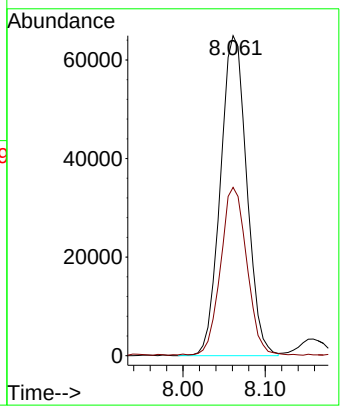





#33
1,2-Dichloroethane-d4
Concen: 49.481 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 65 Resp: 14471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.3 | 0.0 | 104.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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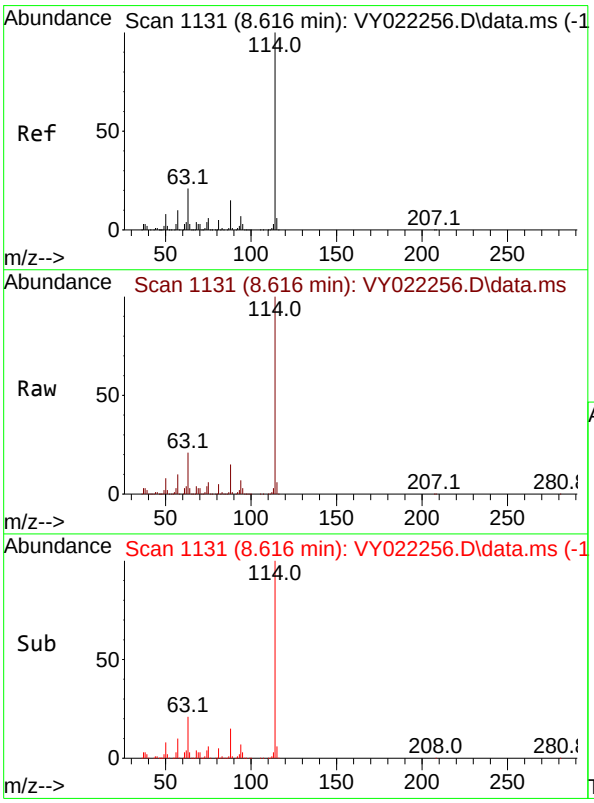
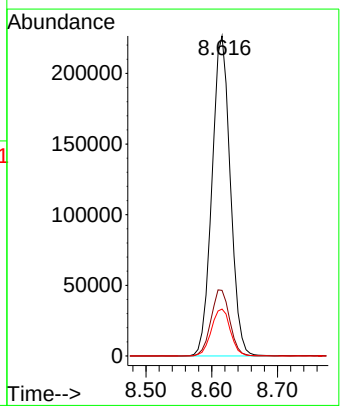
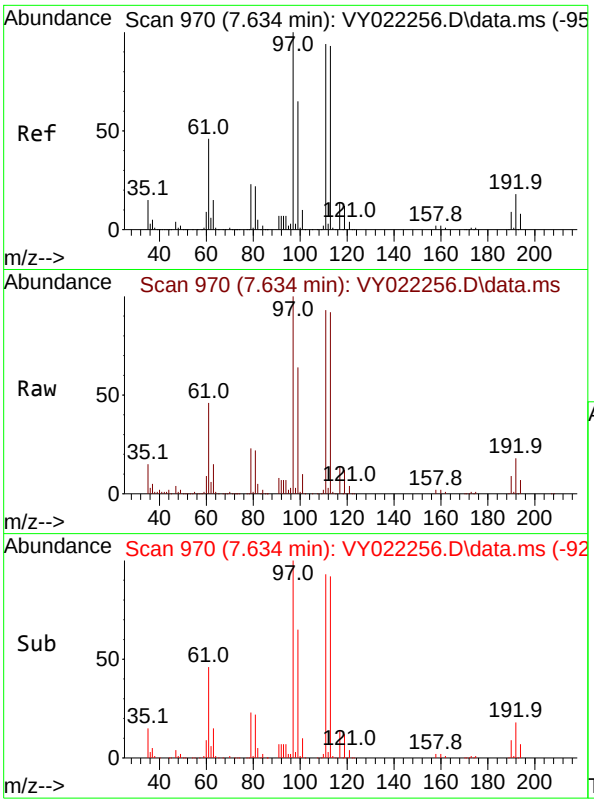



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:114 Resp: 439323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.5 | 0.0 | 41.0 |
| 88 | 14.7 | 0.0 | 29.4 |

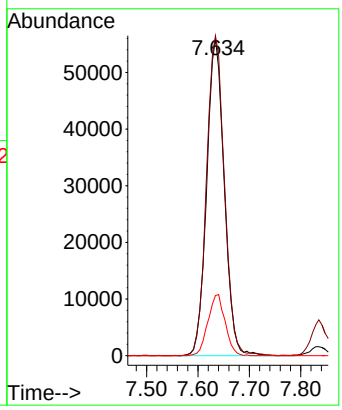





#35
Dibromofluoromethane
Concen: 50.495 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:113 Resp: 13240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 82.6 | 123.8 |
| 192 | 19.0 | 15.2 | 22.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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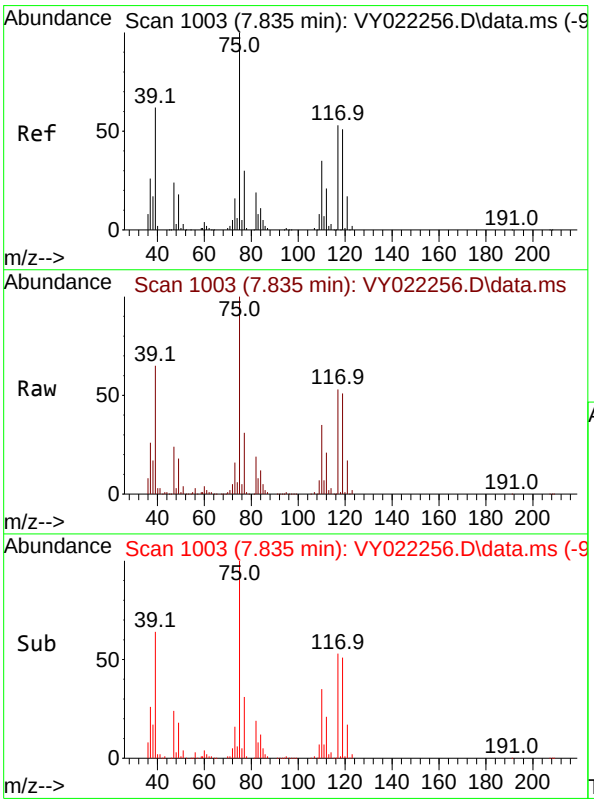
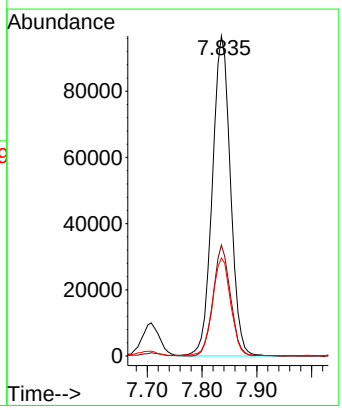
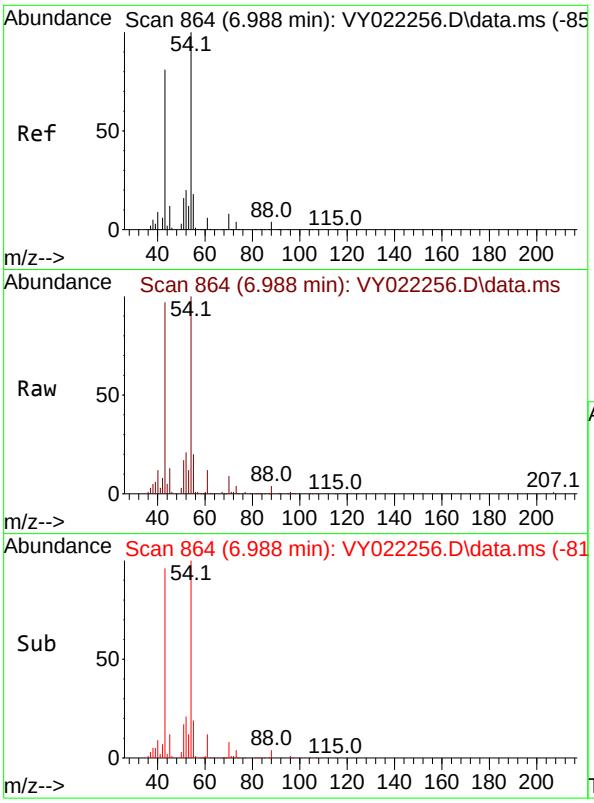



#36
1,1-Dichloropropene
Concen: 51.388 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 221943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.2 | 16.6 | 49.8 |
| 77 | 30.8 | 24.6 | 37.0 |

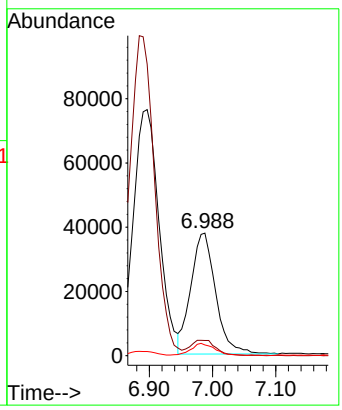





#37
Ethyl Acetate
Concen: 49.529 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 10292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 12.7 | 10.2 | 15.2 |
| 70 | 9.5 | 7.6 | 11.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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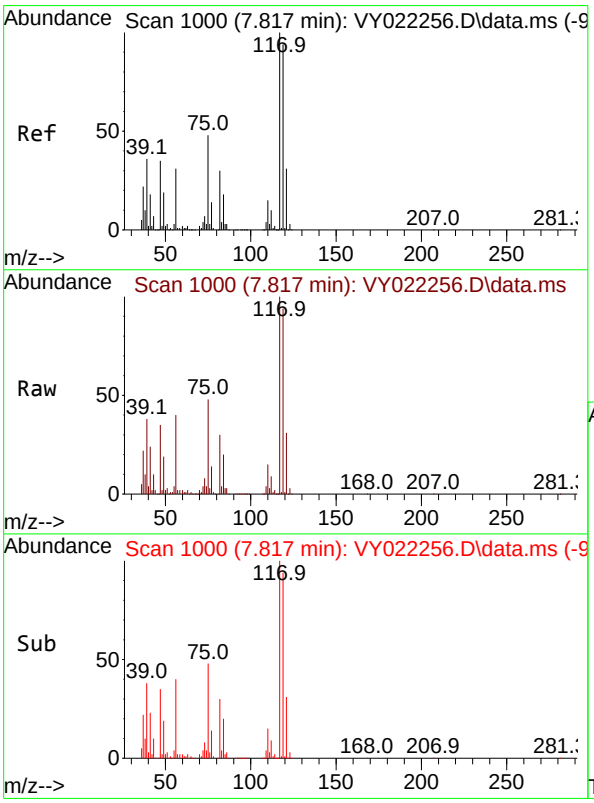
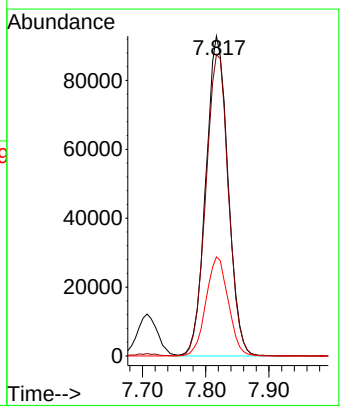
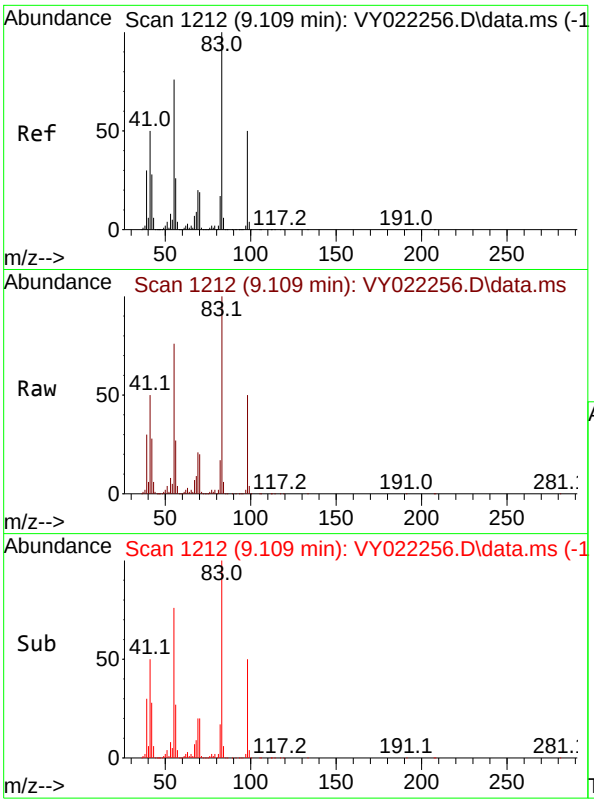



#38
Carbon Tetrachloride
Concen: 50.754 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:117 Resp: 226903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.1 | 75.3 | 112.9 |
| 121 | 30.9 | 24.7 | 37.1 |

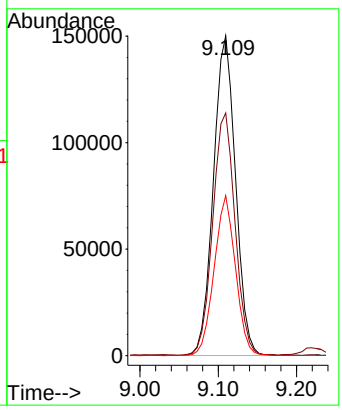





#39
Methylcyclohexane
Concen: 50.726 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 83 Resp: 29433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 75.7 | 60.6 | 90.8 |
| 98 | 50.0 | 40.0 | 60.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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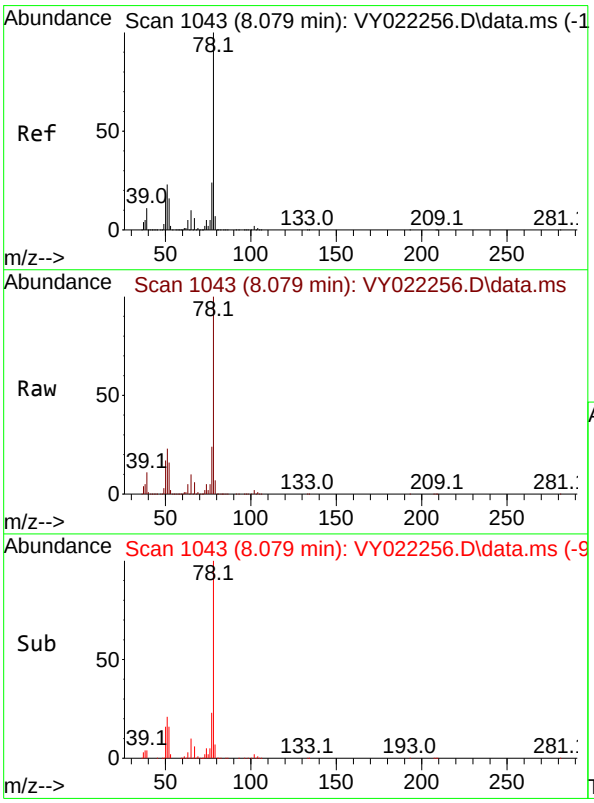
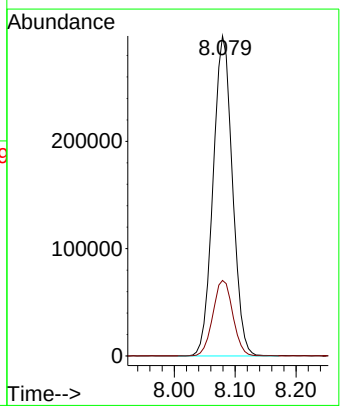
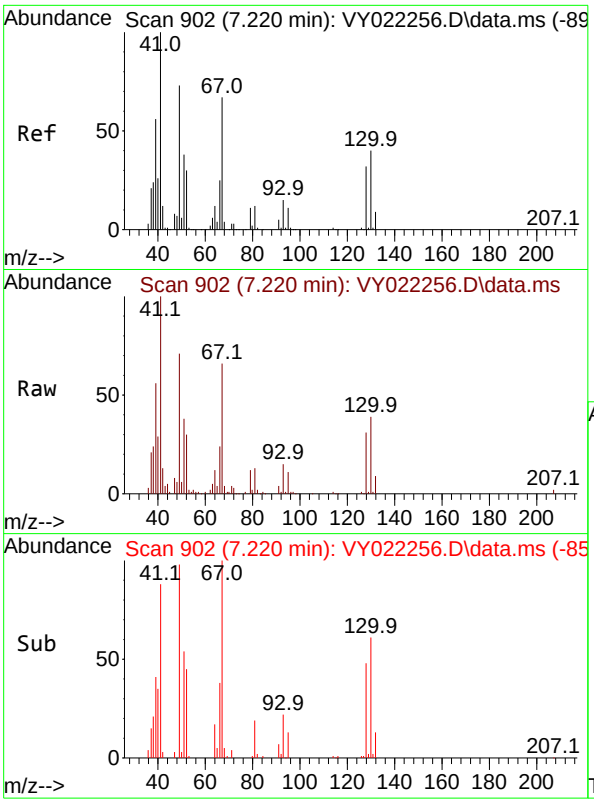



#40
Benzene
Concen: 51.442 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 78 Resp: 658644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.6 | 18.9 | 28.3 |

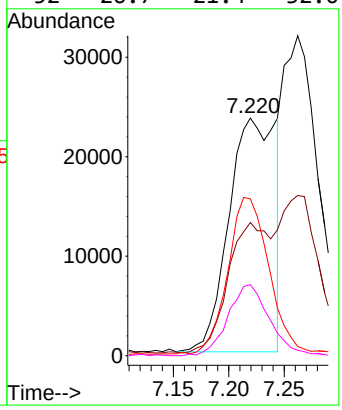





#41
Methacrylonitrile
Concen: 45.691 ug/l m
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 41 Resp: 6947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 48.8 | 39.1 | 58.7 |
| 67 | 58.7 | 47.1 | 70.7 |
| 52 | 26.7 | 21.4 | 32.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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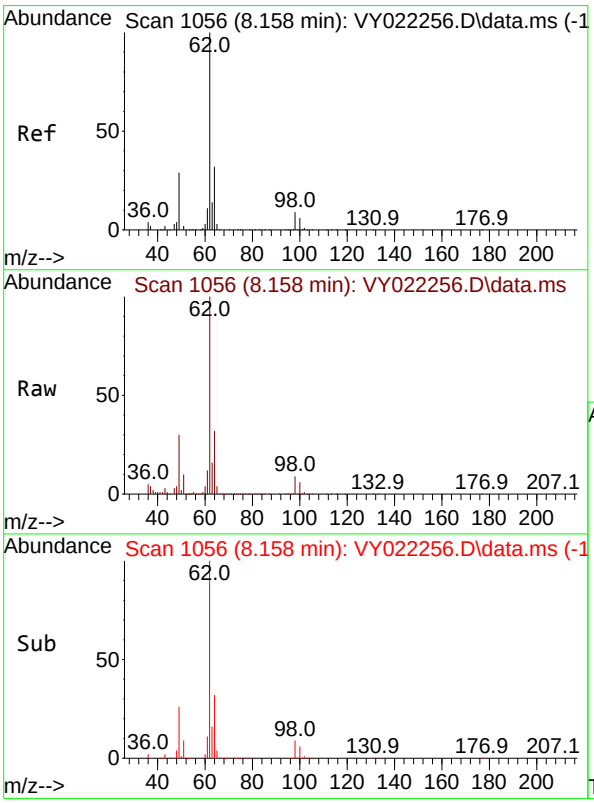
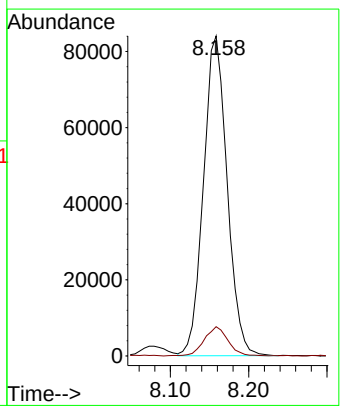
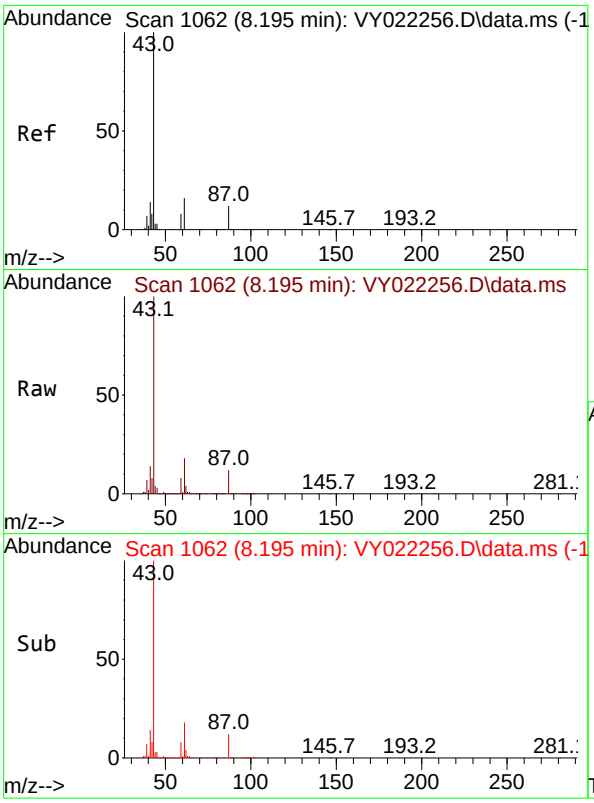



#42
1,2-Dichloroethane
Concen: 50.954 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 62 Resp: 176425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.2 | 0.0 | 18.4 |

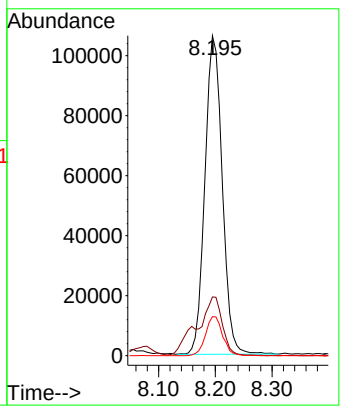





#43
Isopropyl Acetate
Concen: 49.785 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 22562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 18.9 | 15.1 | 22.7 |
| 87 | 12.1 | 9.7 | 14.5 |




**Instrument :**
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**ClientSampleId :**
VSTDICCC050

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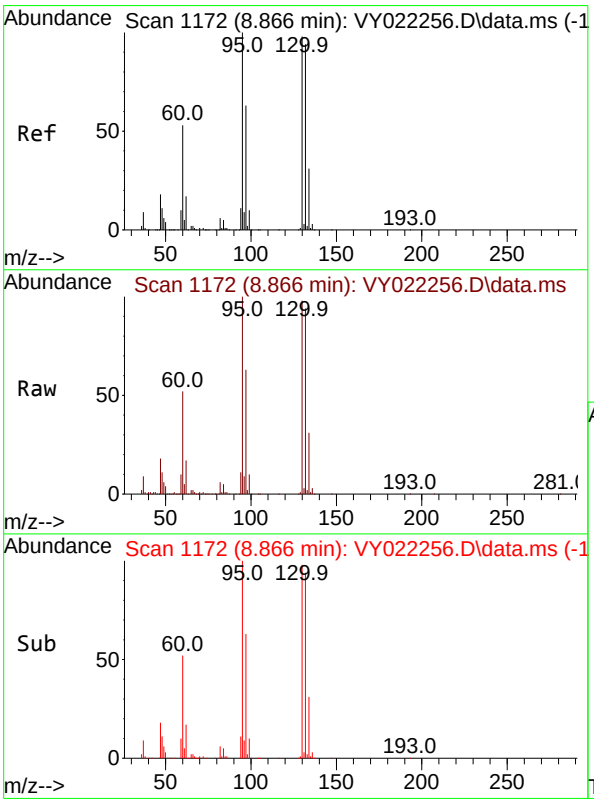
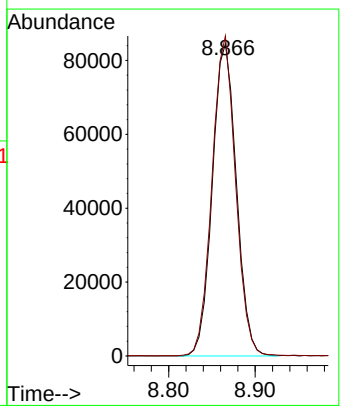
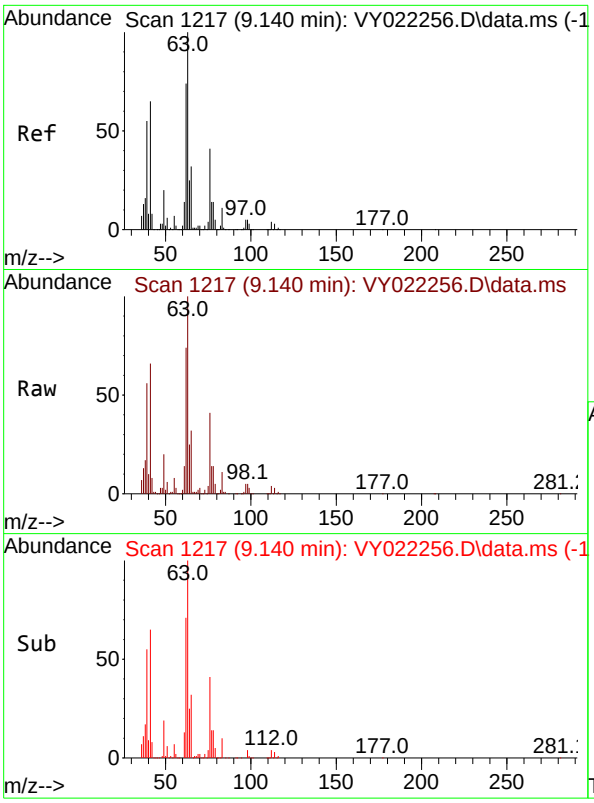



#44
Trichloroethene
Concen: 51.138 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:130 Resp: 162802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.4 | 0.0 | 204.8 |

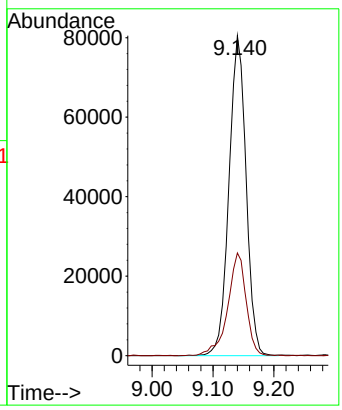





#45
1,2-Dichloropropane
Concen: 50.819 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 63 Resp: 15687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.1 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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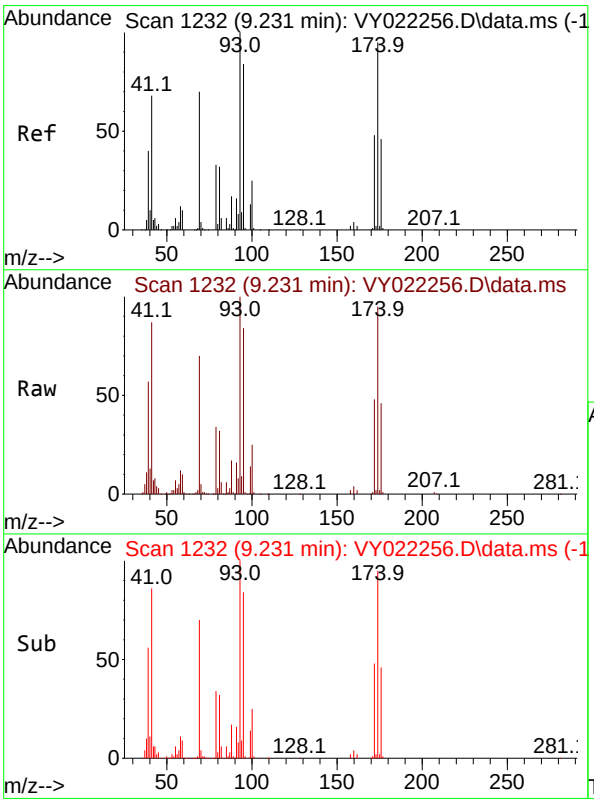
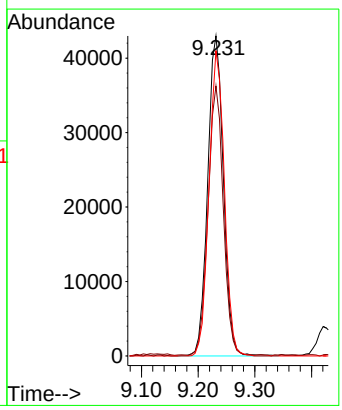
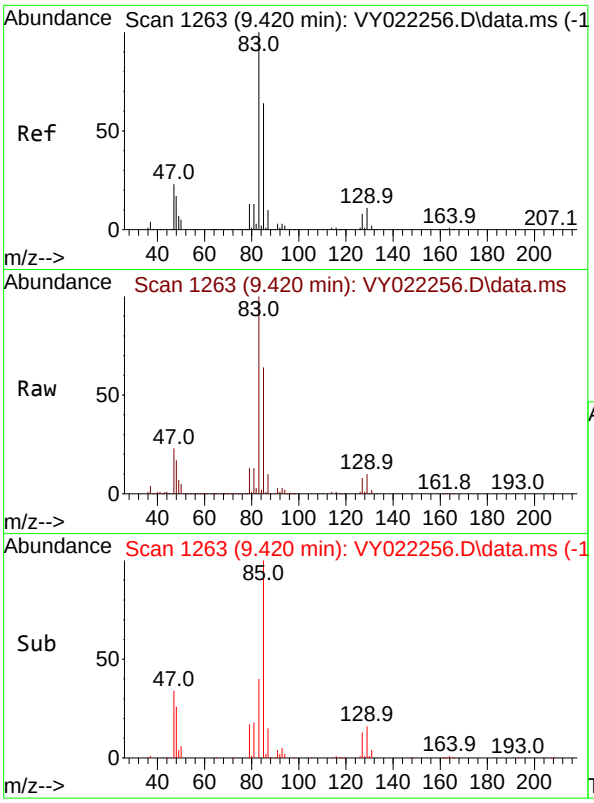



#46
Dibromomethane
Concen: 49.849 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 93 Resp: 82994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.5 | 65.2 | 97.8 |
| 174 | 92.9 | 74.3 | 111.5 |

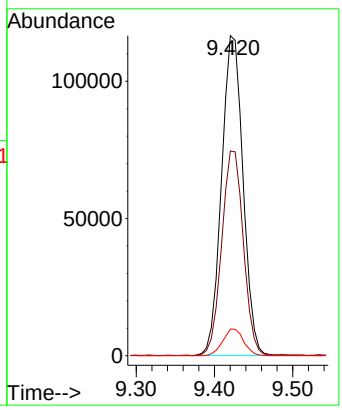





#47
Bromodichloromethane
Concen: 51.435 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 83 Resp: 22215

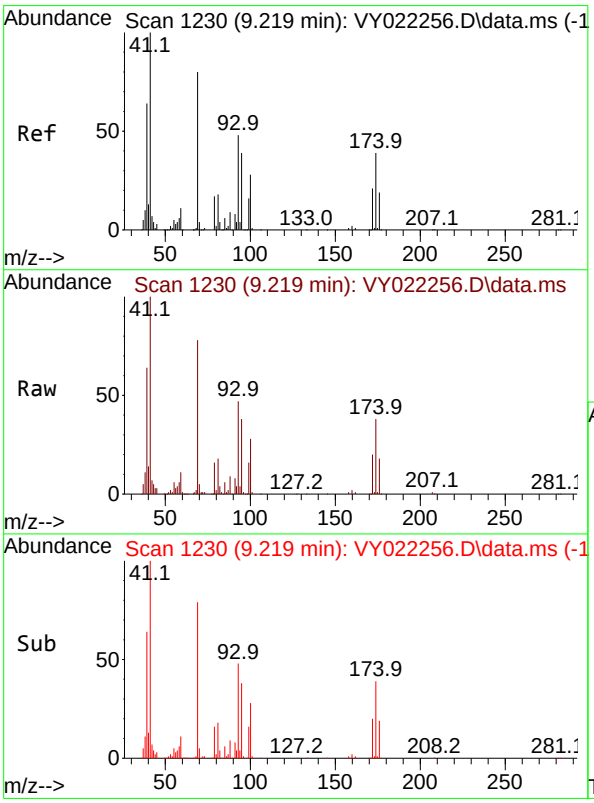
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.9 | 51.1 | 76.7 |
| 127 | 8.3 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

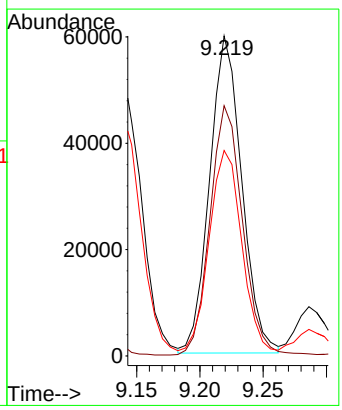
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

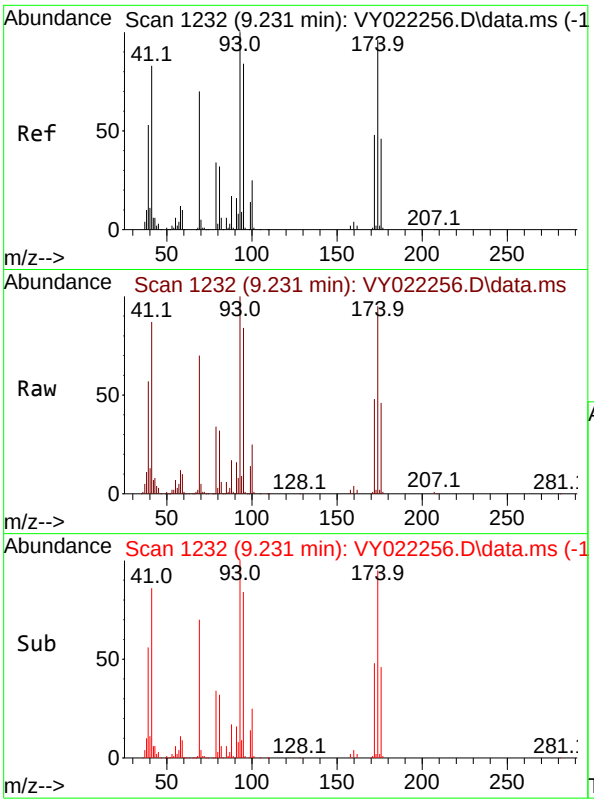



#48
Methyl methacrylate
Concen: 49.726 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 41 Resp: 105390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 79.4 | 63.5 | 95.3 |
| 39 | 63.5 | 50.8 | 76.2 |

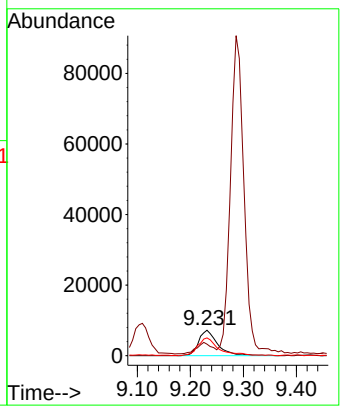





#49
1,4-Dioxane
Concen: 958.446 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 88 Resp: 1802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.6 | 28.5 | 42.7 |
| 58 | 76.8 | 61.4 | 92.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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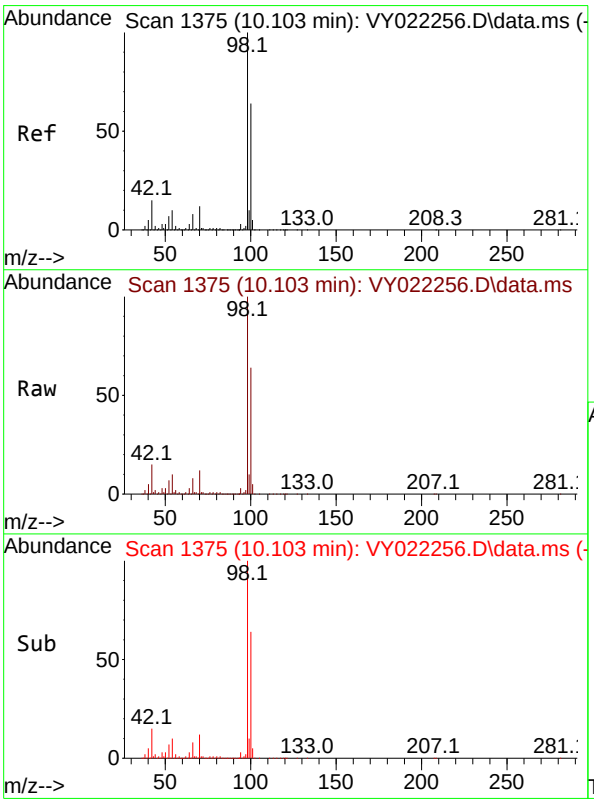
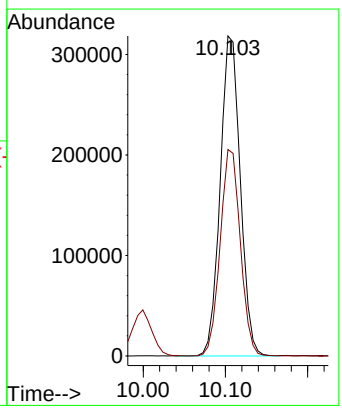
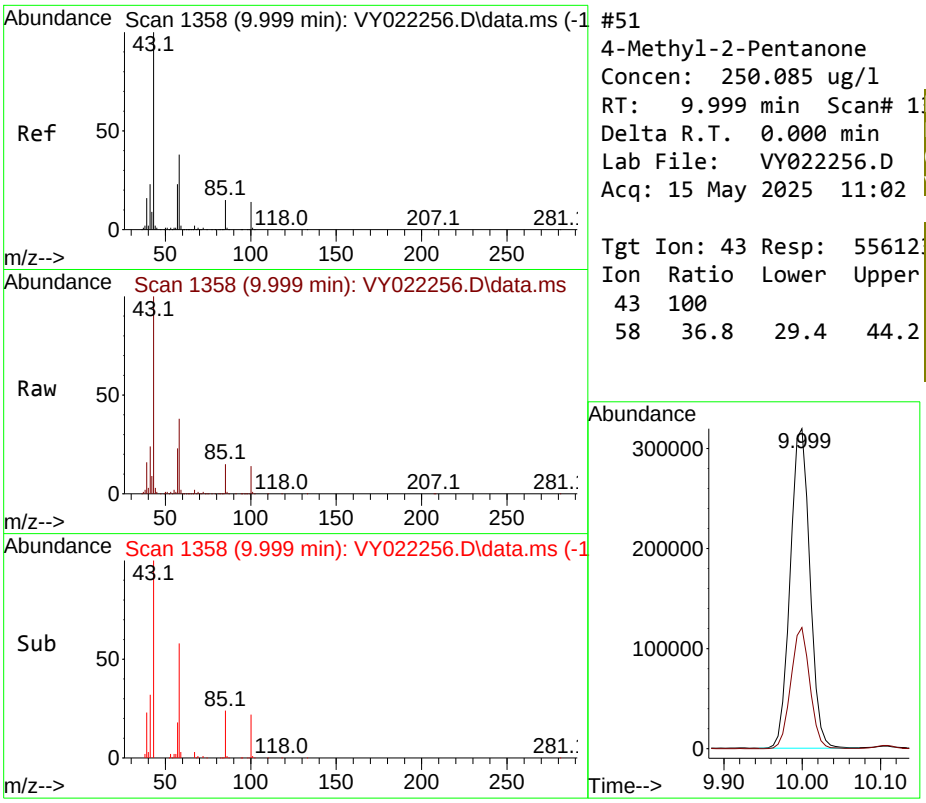



#50
Toluene-d8
Concen: 50.311 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 98 Resp: 540296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.8 | 51.8 | 77.8 |






#51
4-Methyl-2-Pentanone
Concen: 250.085 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 5561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.8 | 29.4 | 44.2 |




**Instrument :**
MSVOA_Y
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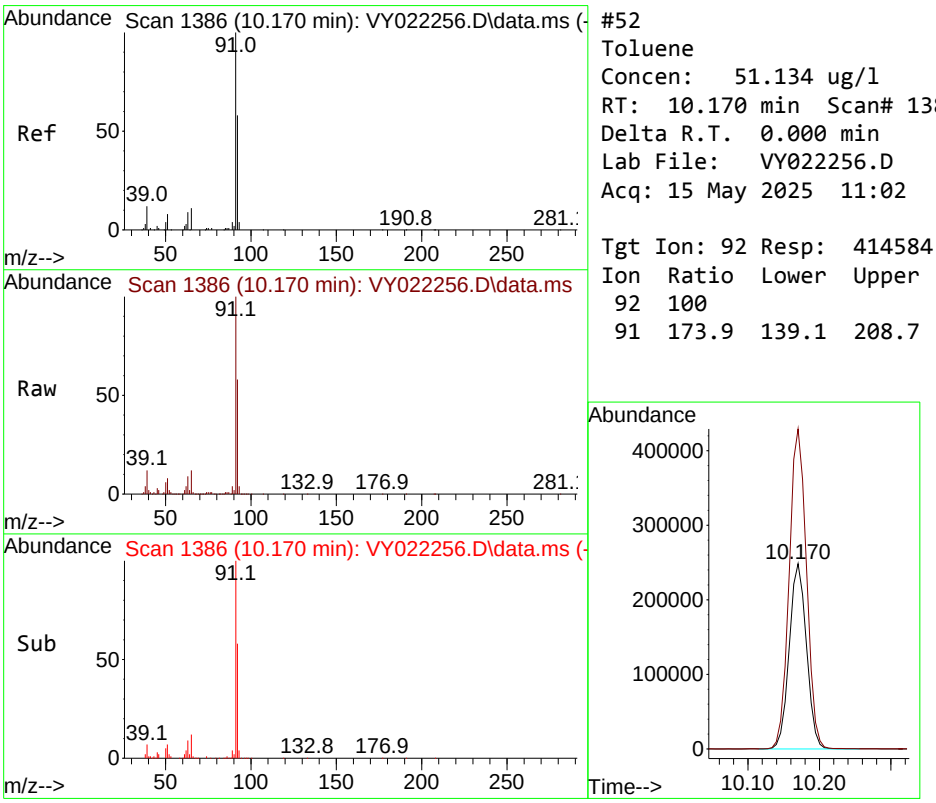
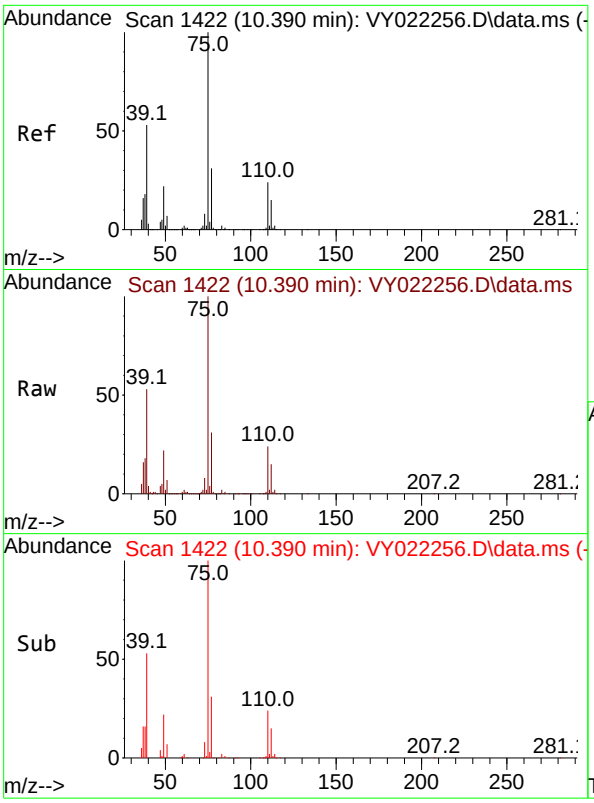



#52
Toluene
Concen: 51.134 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 92 Resp: 414584

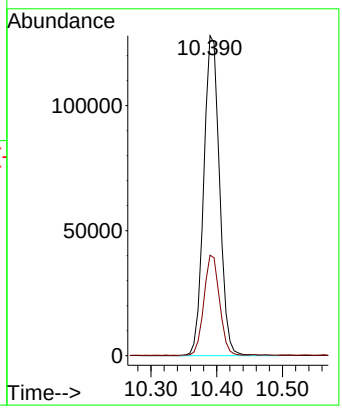
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.9 | 139.1 | 208.7 |




#53
t-1,3-Dichloropropene
Concen: 50.768 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 21399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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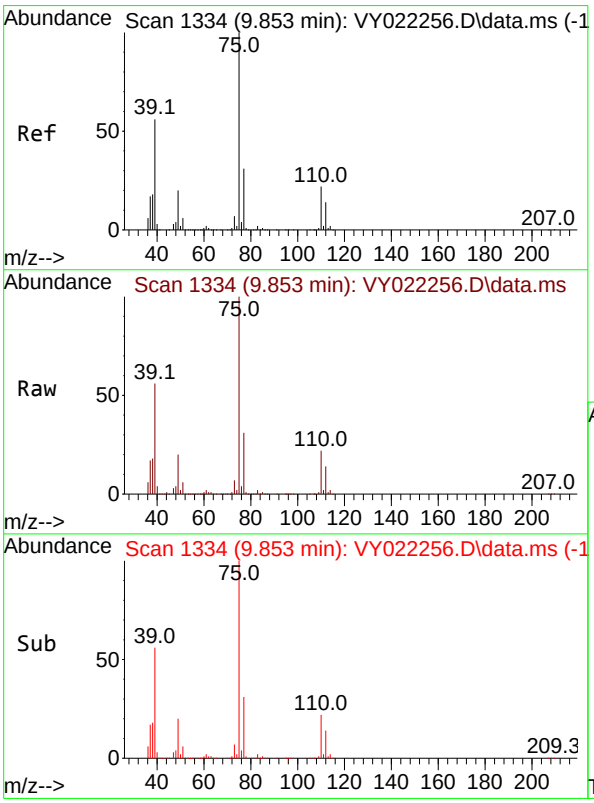
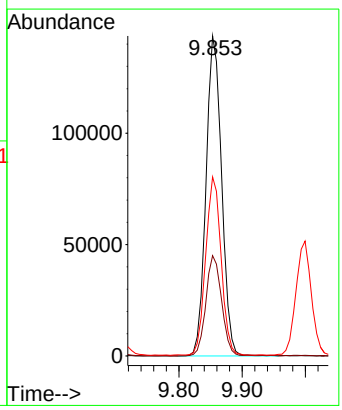
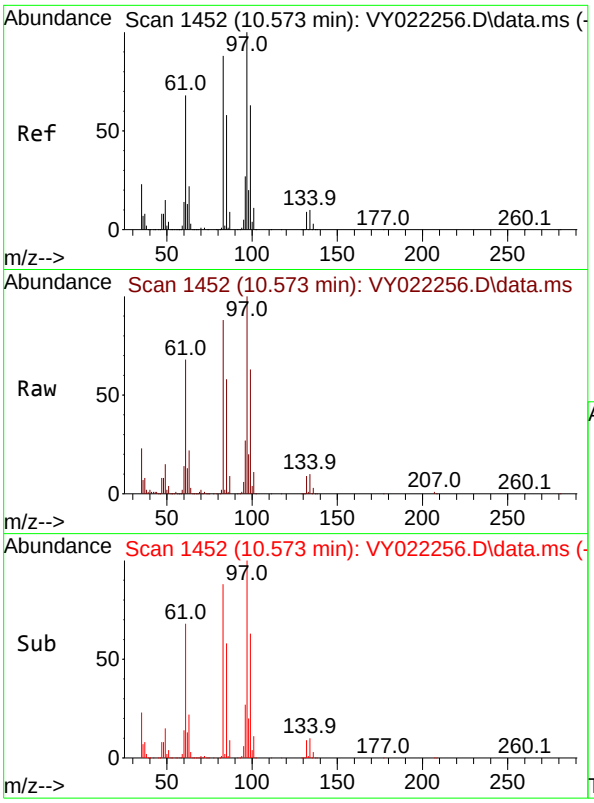



#54
cis-1,3-Dichloropropene
Concen: 51.143 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 246990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.1 | 37.7 |
| 39 | 55.6 | 44.5 | 66.7 |

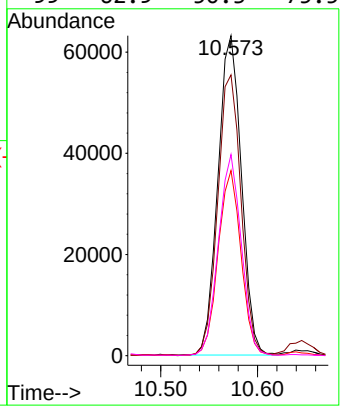





#55
1,1,2-Trichloroethane
Concen: 50.036 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 97 Resp: 10667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.9 | 70.3 | 105.5 |
| 85 | 57.8 | 46.2 | 69.4 |
| 99 | 62.9 | 50.3 | 75.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
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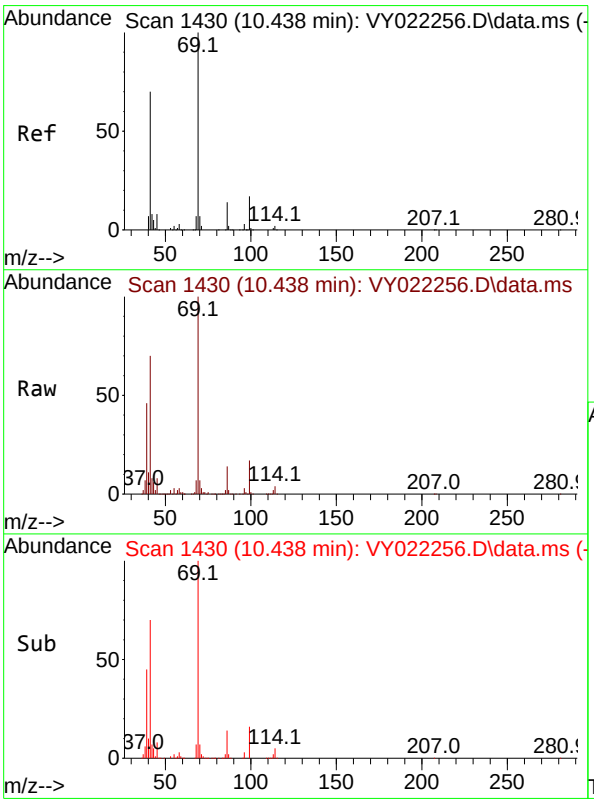
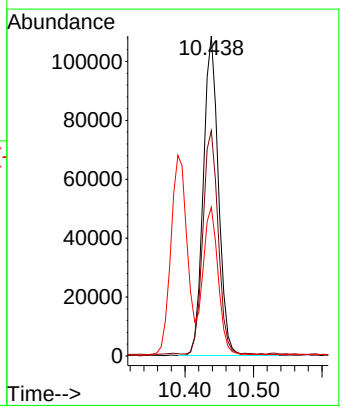
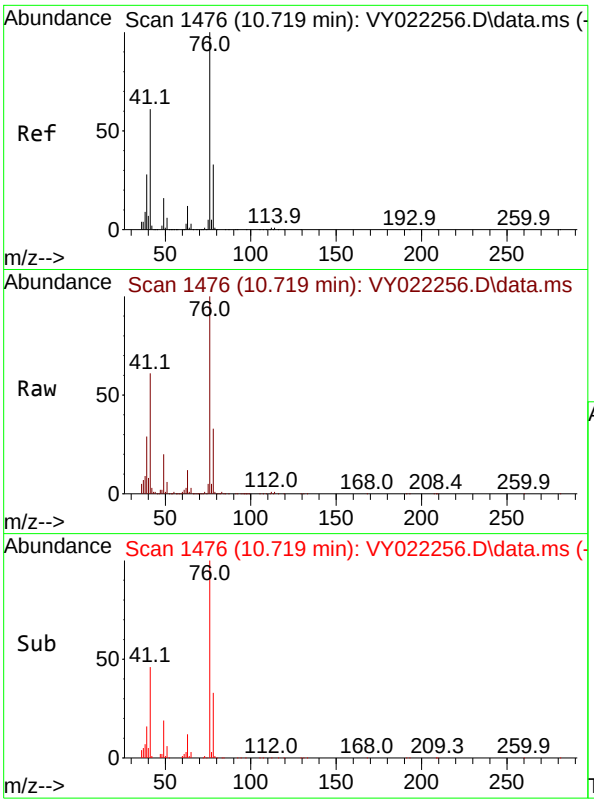



#56
Ethyl methacrylate
Concen: 50.364 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 69 Resp: 167259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 70.6 | 56.5 | 84.7 |
| 39 | 46.4 | 37.1 | 55.7 |

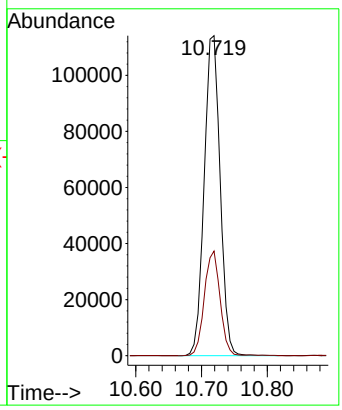





#57
1,3-Dichloropropane
Concen: 50.759 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 76 Resp: 19227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.3 | 25.8 | 38.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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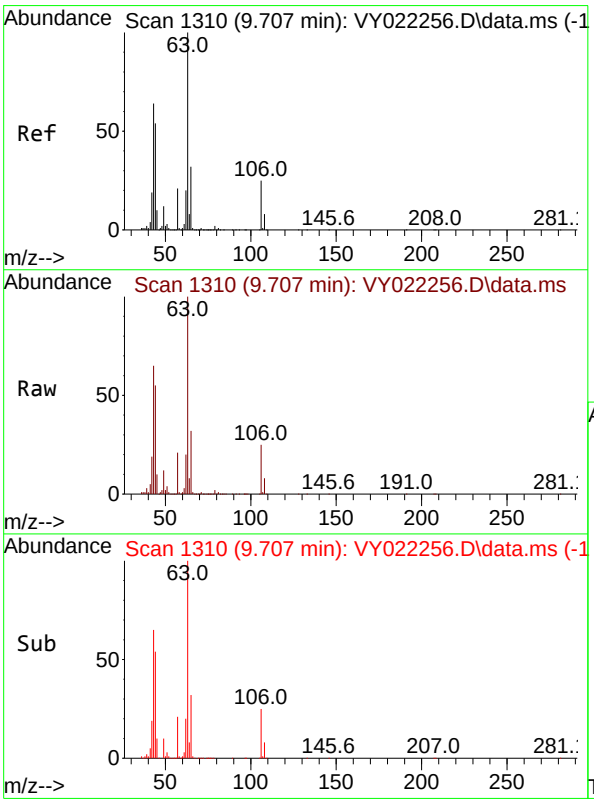
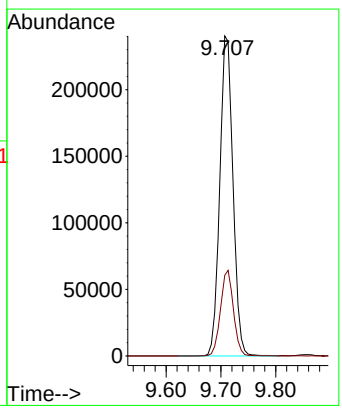
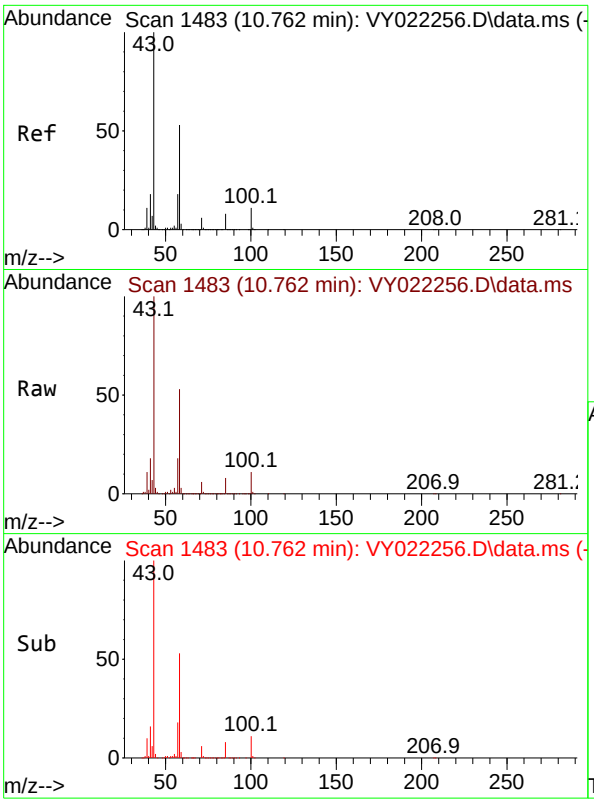



#58
2-Chloroethyl Vinyl ether
Concen: 270.408 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 63 Resp: 403074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.2 | 21.0 | 31.4 |






#59
2-Hexanone
Concen: 244.881 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 36511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 52.2 | 26.1 | 78.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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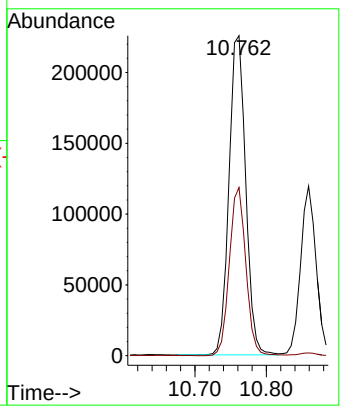
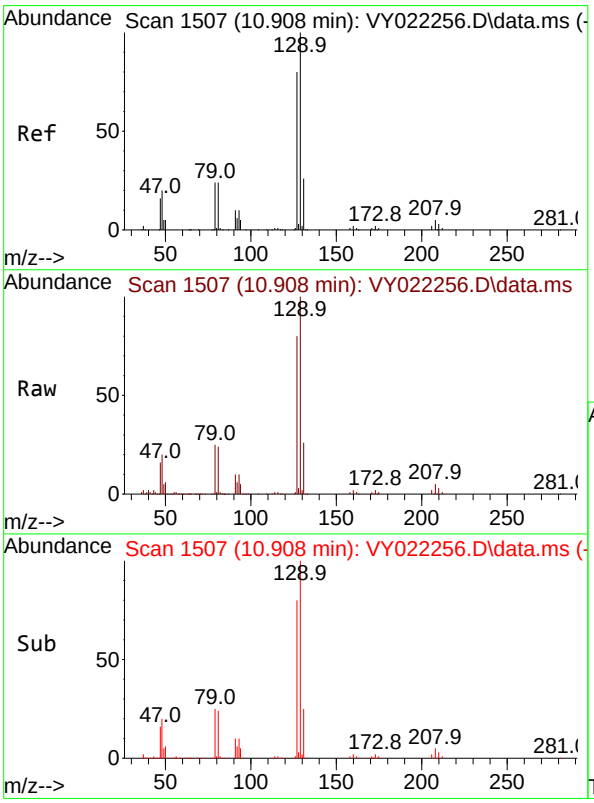
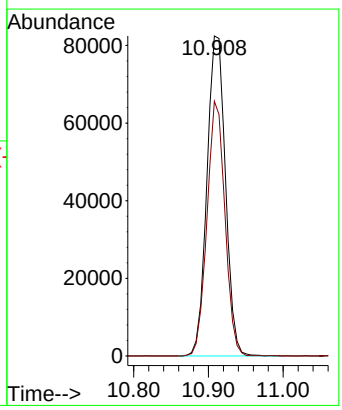


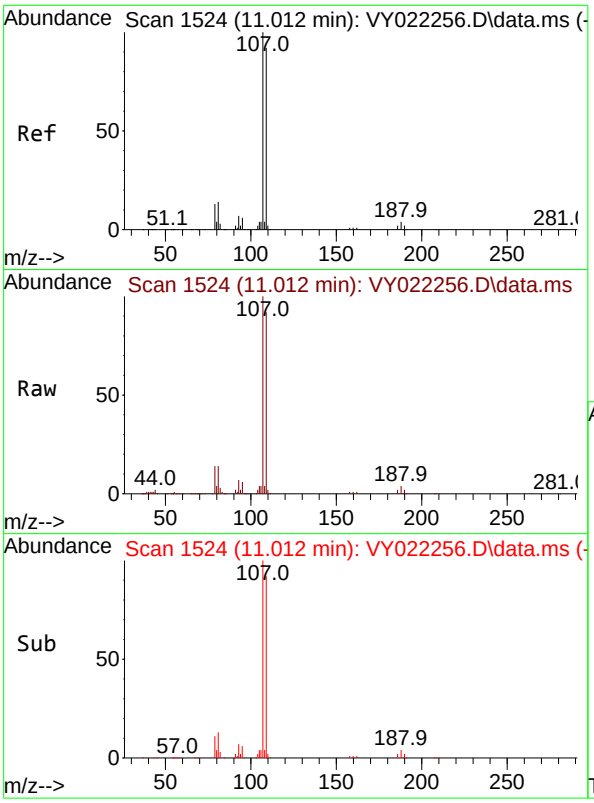




#60
Dibromochloromethane
Concen: 51.278 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:129 Resp: 141896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.1 | 38.6 | 115.7 |

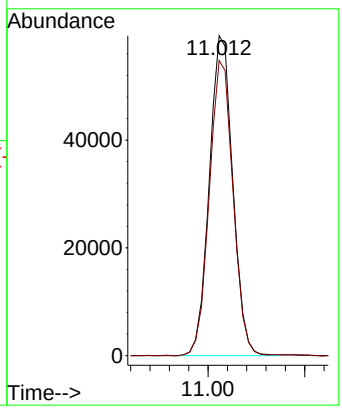





#61
1,2-Dibromoethane
Concen: 50.236 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:107 Resp: 9982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.2 | 74.6 | 111.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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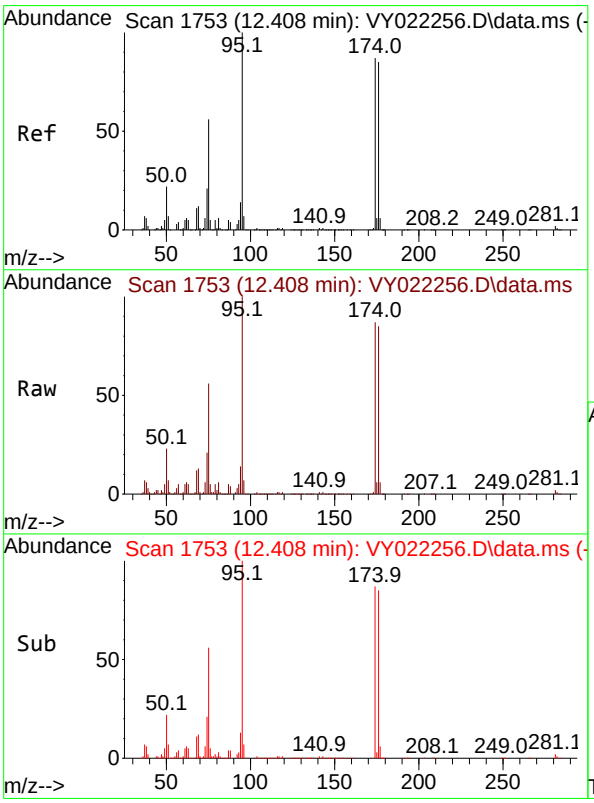
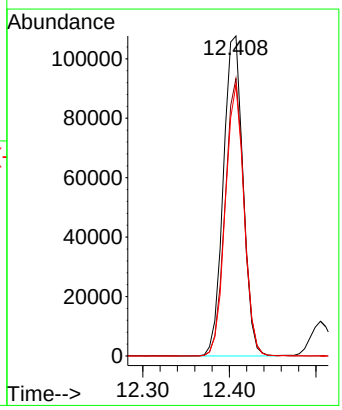
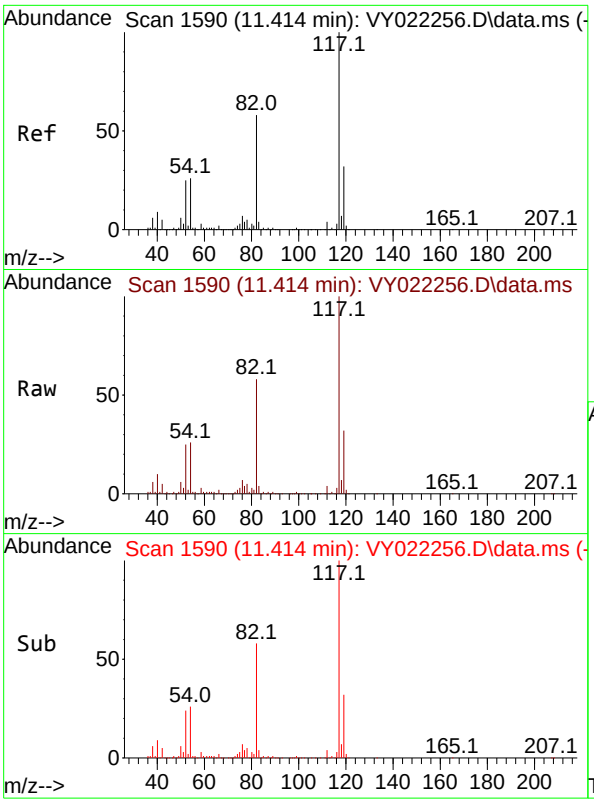



#62
4-Bromofluorobenzene
Concen: 49.891 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 95 Resp: 169827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 83.4 | 0.0 | 166.8 |
| 176 | 80.4 | 0.0 | 160.8 |

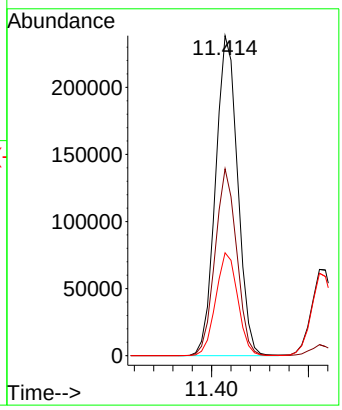





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:117 Resp: 37757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.3 | 46.6 | 70.0 |
| 119 | 32.2 | 25.8 | 38.6 |




**Instrument :**
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VSTDICCC050

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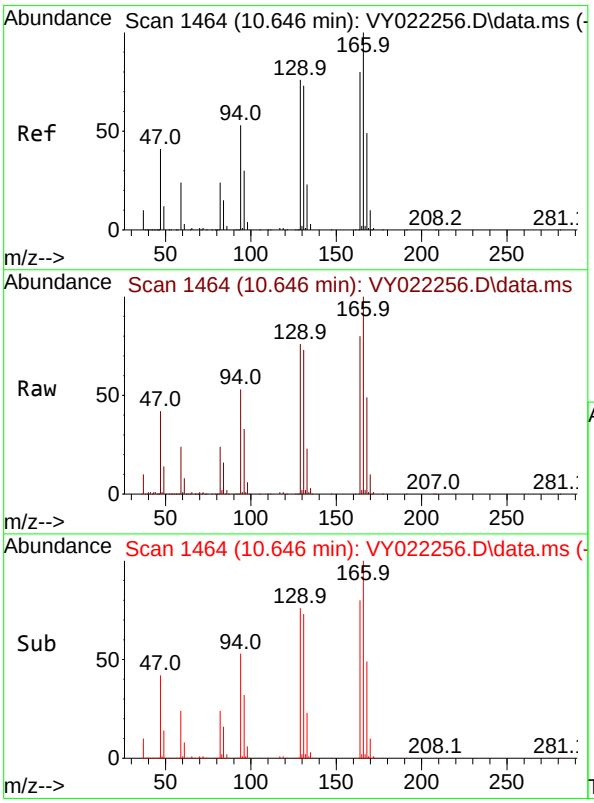
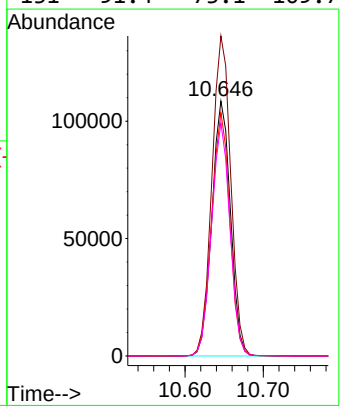
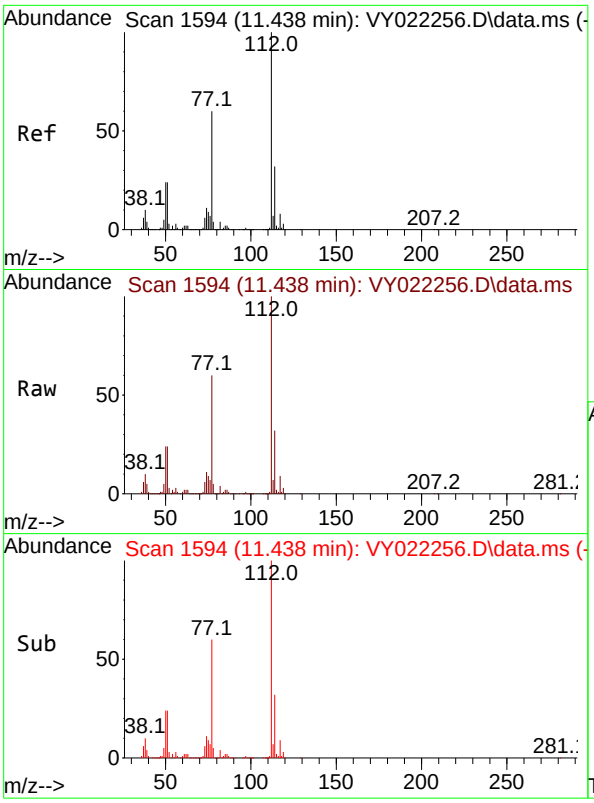



#64
Tetrachloroethene
Concen: 51.249 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:164 Resp: 178854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 125.5 | 100.4 | 150.6 |
| 129 | 95.5 | 76.4 | 114.6 |
| 131 | 91.4 | 73.1 | 109.7 |

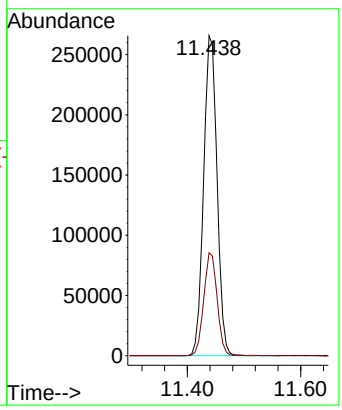





#65
Chlorobenzene
Concen: 51.169 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:112 Resp: 43587

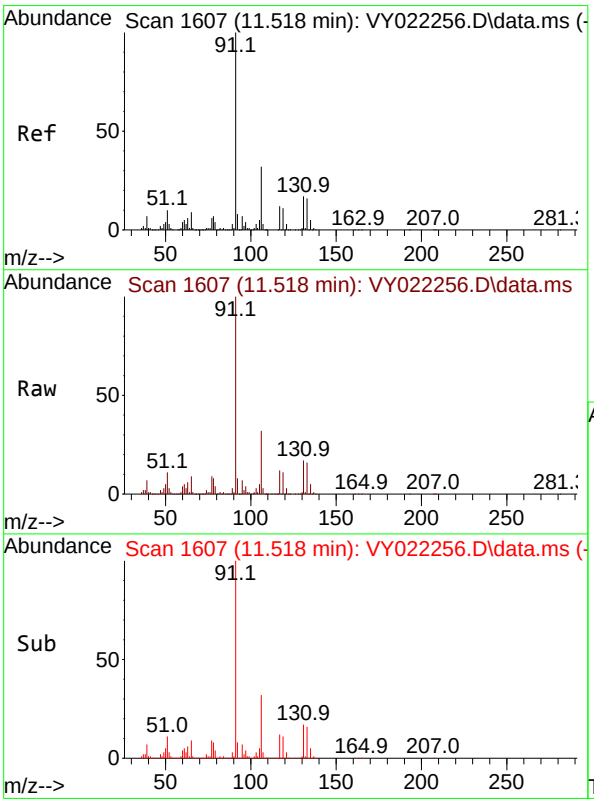
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

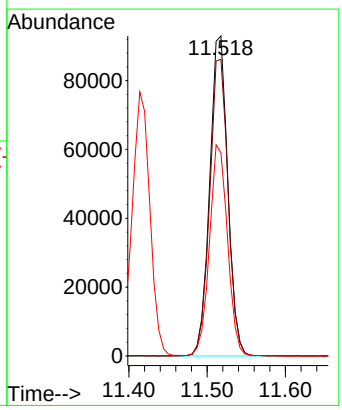
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

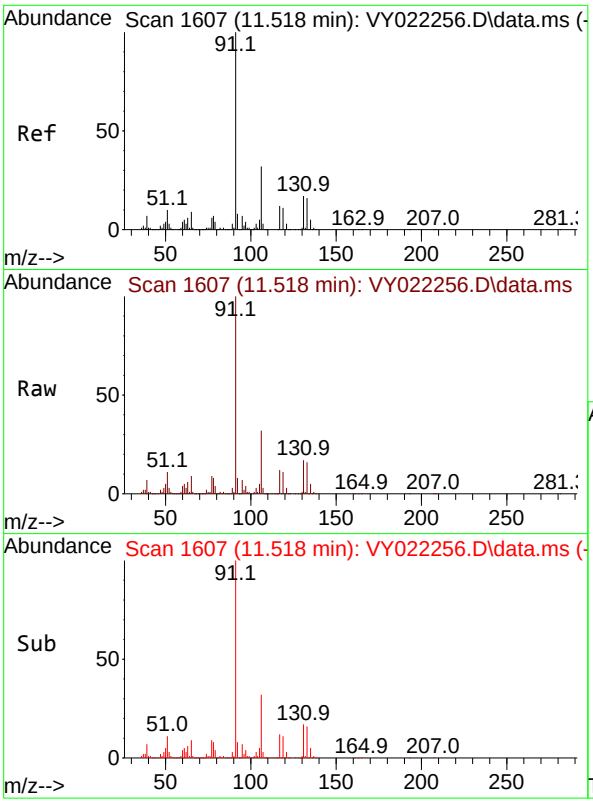



#66
1,1,1,2-Tetrachloroethane
Concen: 50.811 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:131 Resp: 148798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.6 | 47.3 | 141.9 |
| 119 | 66.1 | 33.1 | 99.2 |

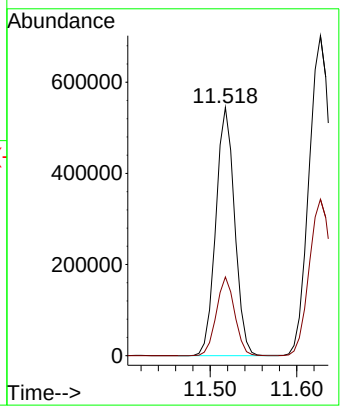





#67
Ethyl Benzene
Concen: 51.473 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 91 Resp: 82116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.7 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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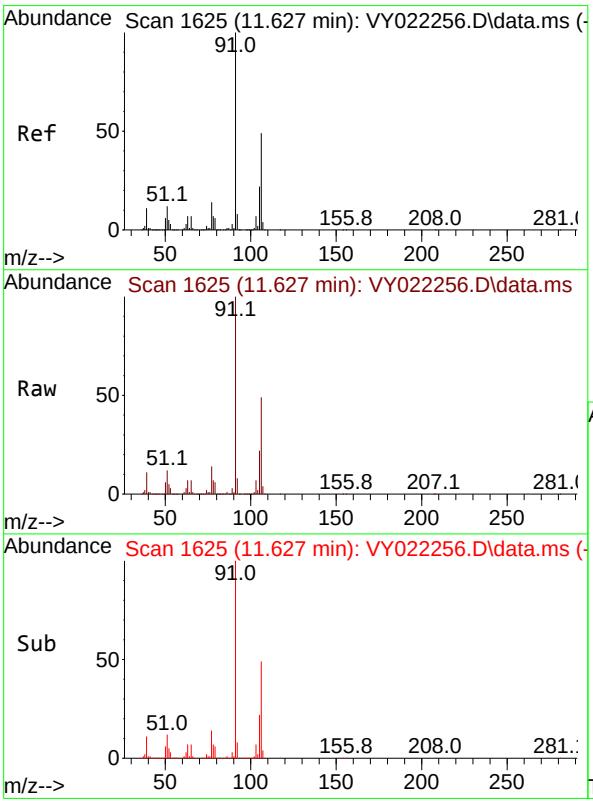
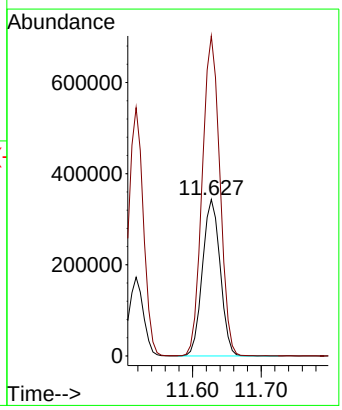
Supervised By :Semsettin Yesilyurt 05/16/2025

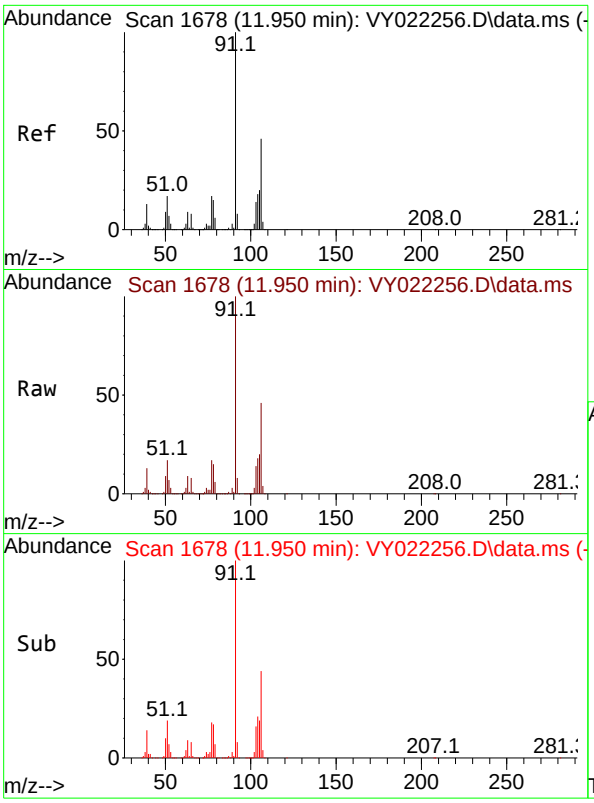



#68
m/p-Xylenes
Concen: 102.746 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:106 Resp: 617646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 203.7 | 163.0 | 244.4 |

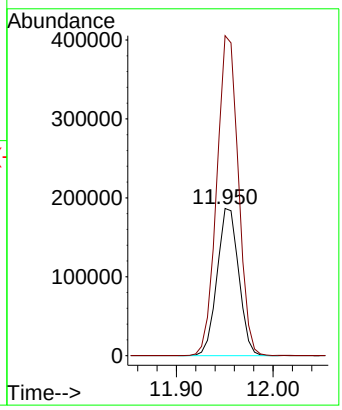





#69
o-Xylene
Concen: 50.971 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:106 Resp: 28989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.5 | 108.3 | 324.8 |




**Instrument :**
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VSTDICCC050

**Manual Integrations APPROVED**

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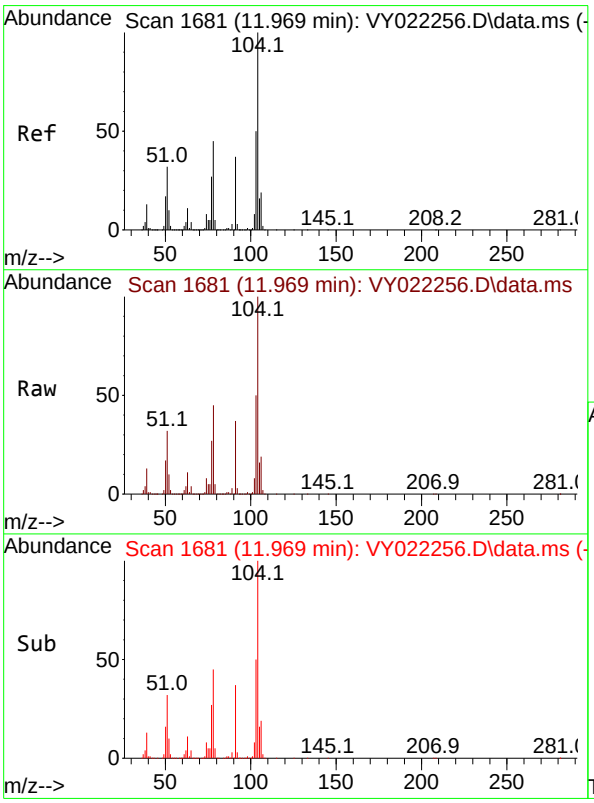
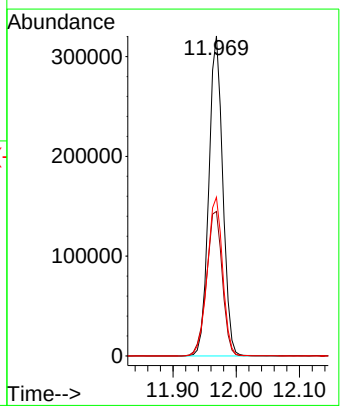
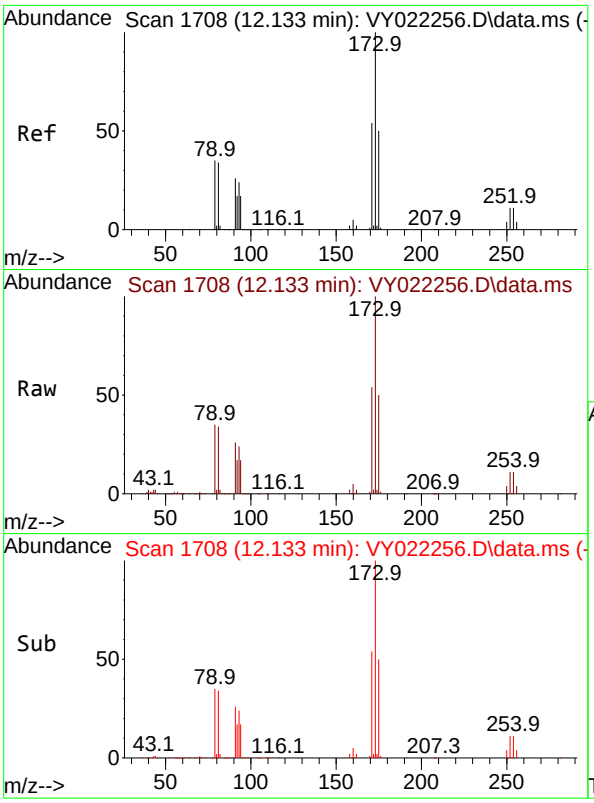



#70
Styrene
Concen: 51.260 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:104 Resp: 491792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.1 | 40.9 | 61.3 |
| 103 | 54.6 | 43.7 | 65.5 |

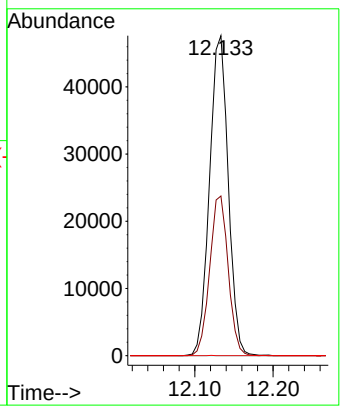





#71
Bromoform
Concen: 49.849 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:173 Resp: 7879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.4 | 24.7 | 74.1 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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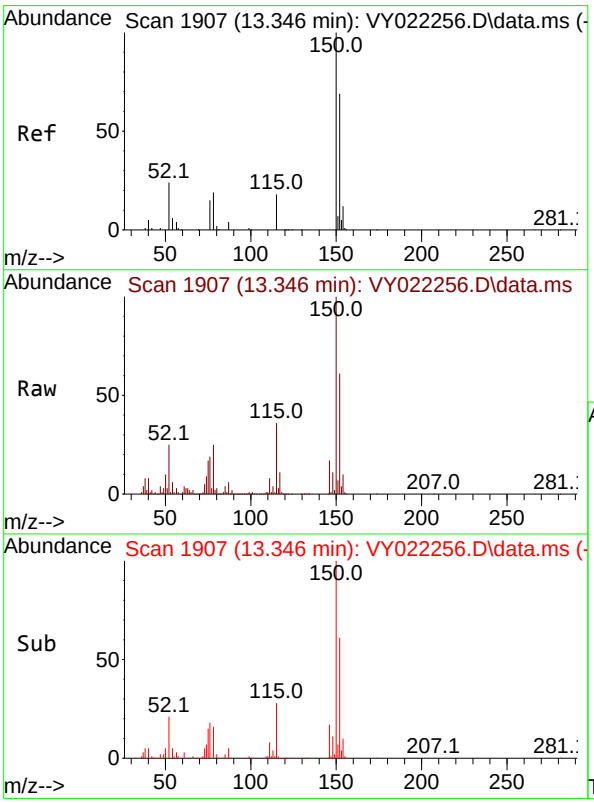
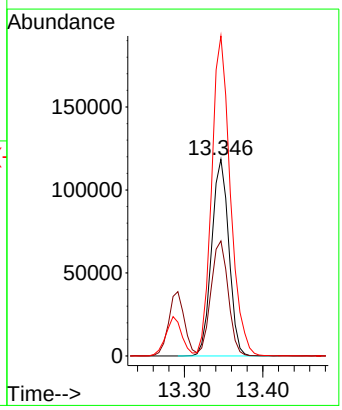
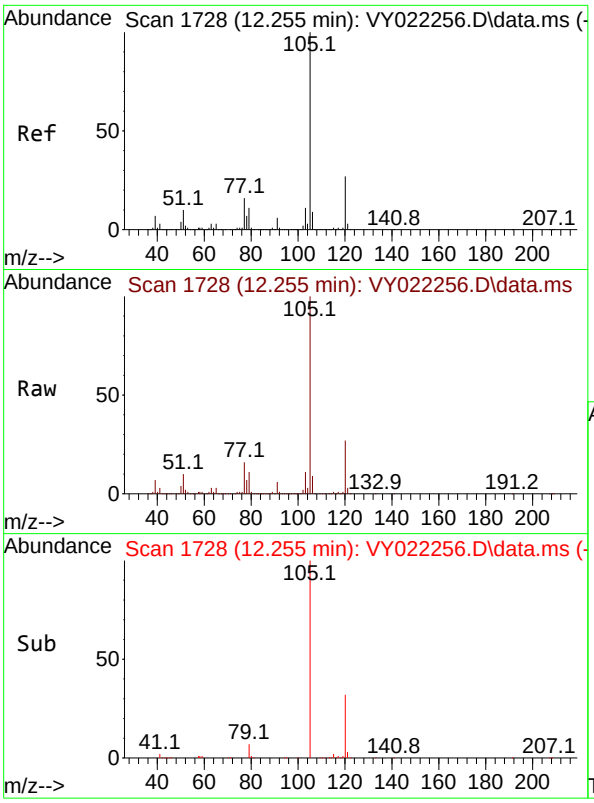



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:152 Resp: 180358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.8 | 29.4 | 88.2 |
| 150 | 176.9 | 0.0 | 353.8 |

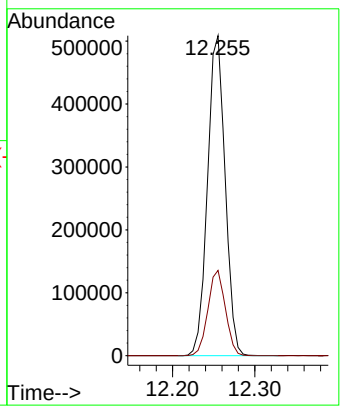





#73
Isopropylbenzene
Concen: 50.657 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:105 Resp: 75690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.2 | 39.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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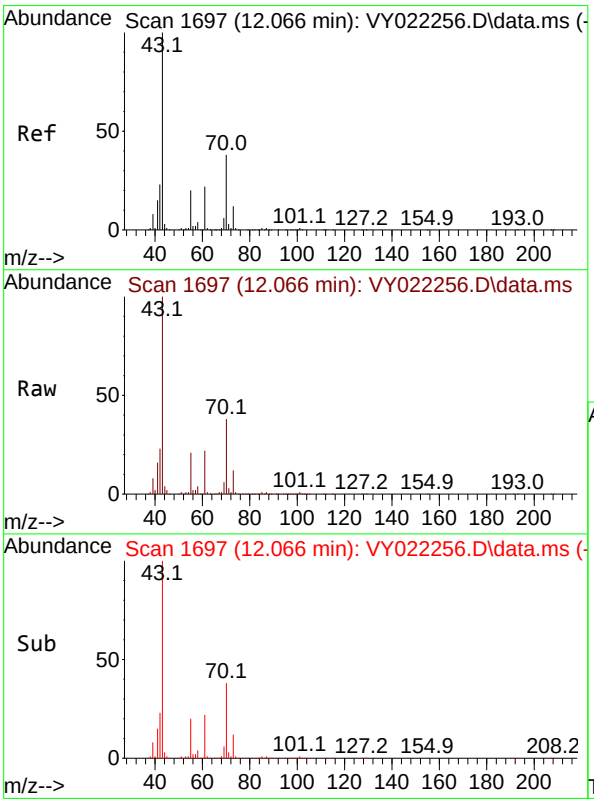
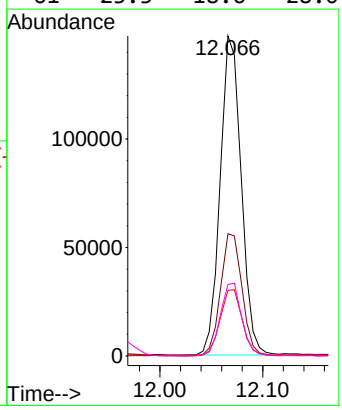
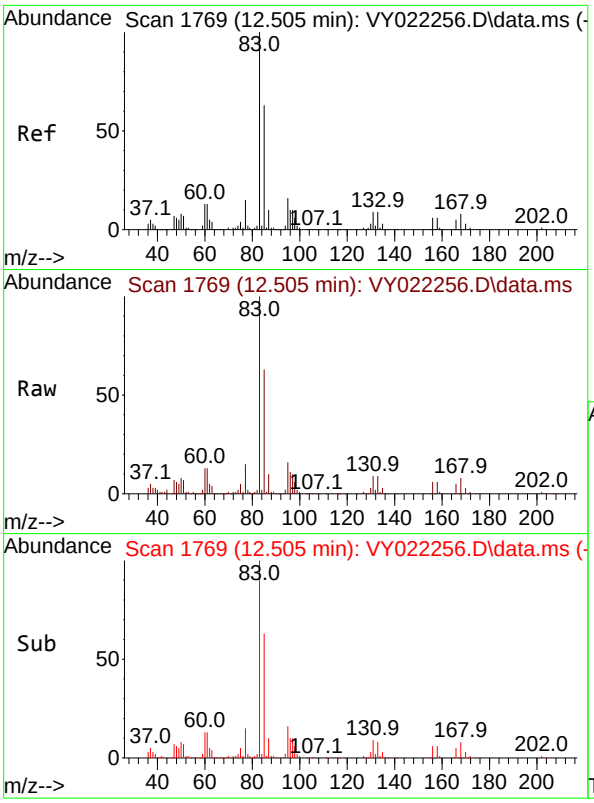



#74
N-amyl acetate
Concen: 48.930 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 209097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 39.2 | 31.4 | 47.0 |
| 55 | 21.3 | 17.0 | 25.6 |
| 61 | 23.3 | 18.6 | 28.0 |

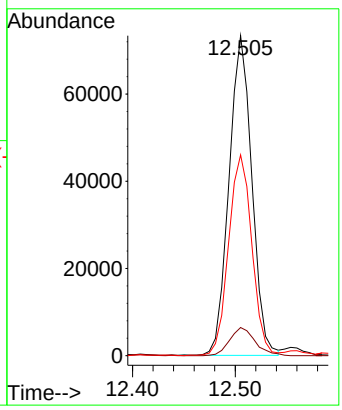





#75
1,1,2,2-Tetrachloroethane
Concen: 49.277 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 83 Resp: 11323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.8 | 4.9 | 14.7 |
| 85 | 64.0 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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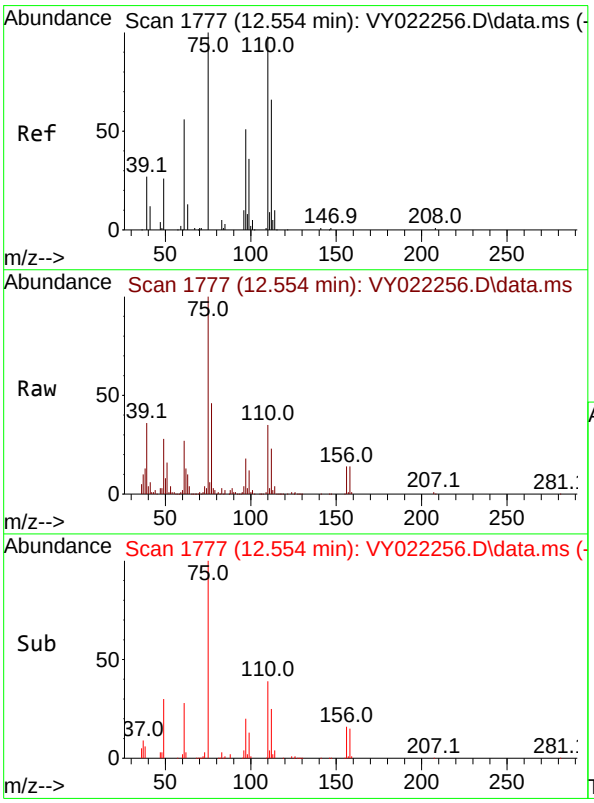
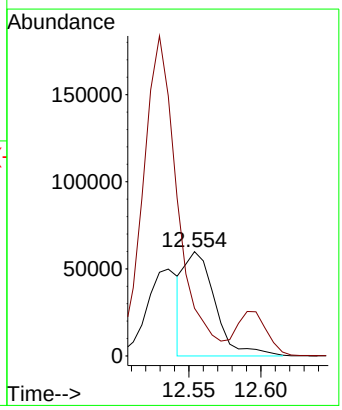
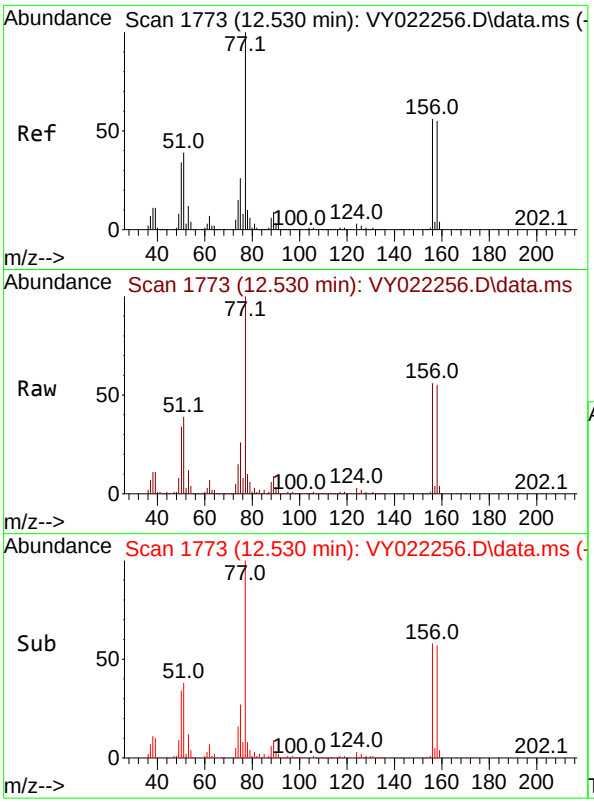



#76
1,2,3-Trichloropropane
Concen: 28.402 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 90281

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

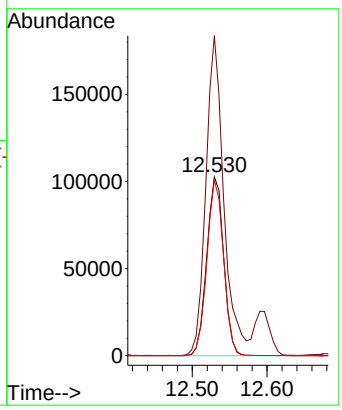





#77
Bromobenzene
Concen: 50.599 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:156 Resp: 16147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 189.1 | 94.5 | 283.6 |
| 158 | 96.9 | 48.4 | 145.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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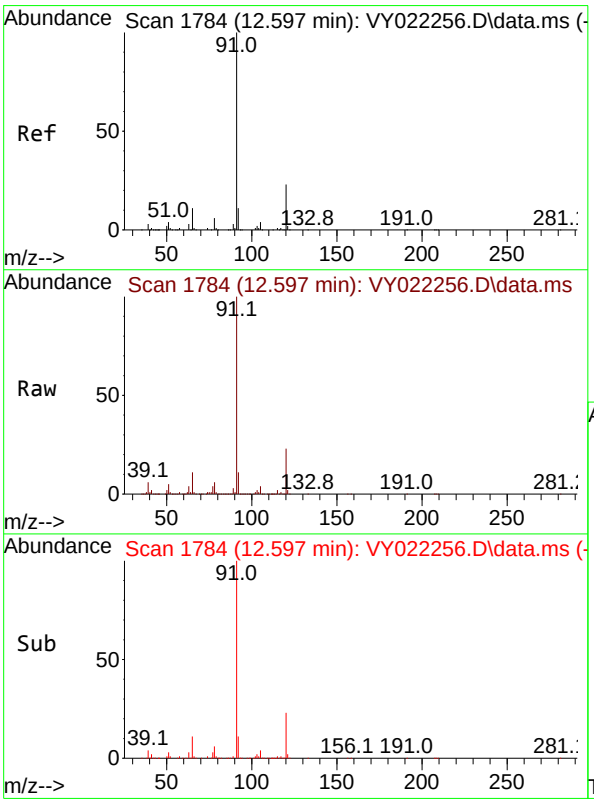
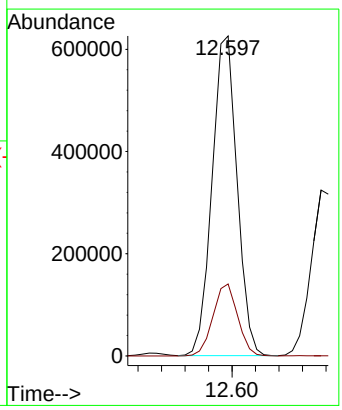
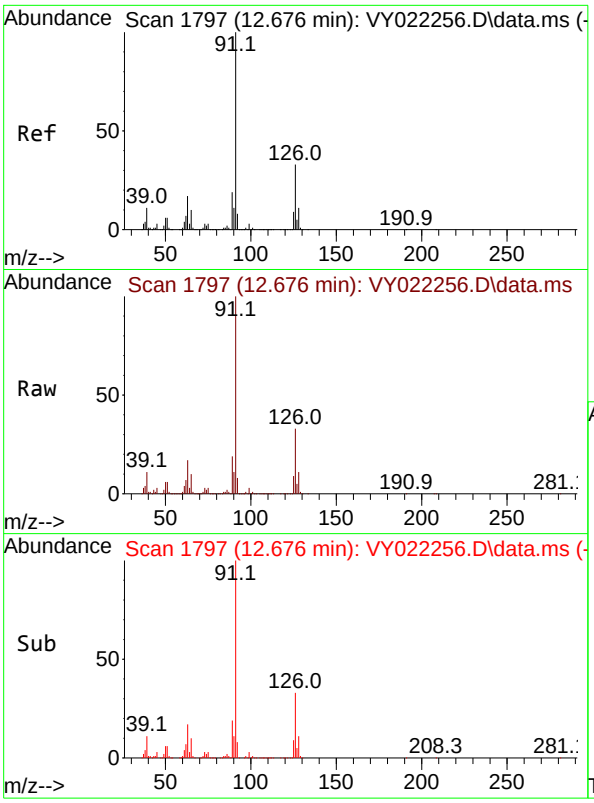



#78
n-propylbenzene
Concen: 51.306 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 91 Resp: 924664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.2 | 11.1 | 33.3 |

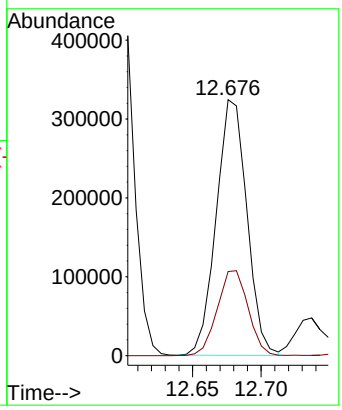





#79
2-Chlorotoluene
Concen: 51.058 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 91 Resp: 50568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.6 | 16.8 | 50.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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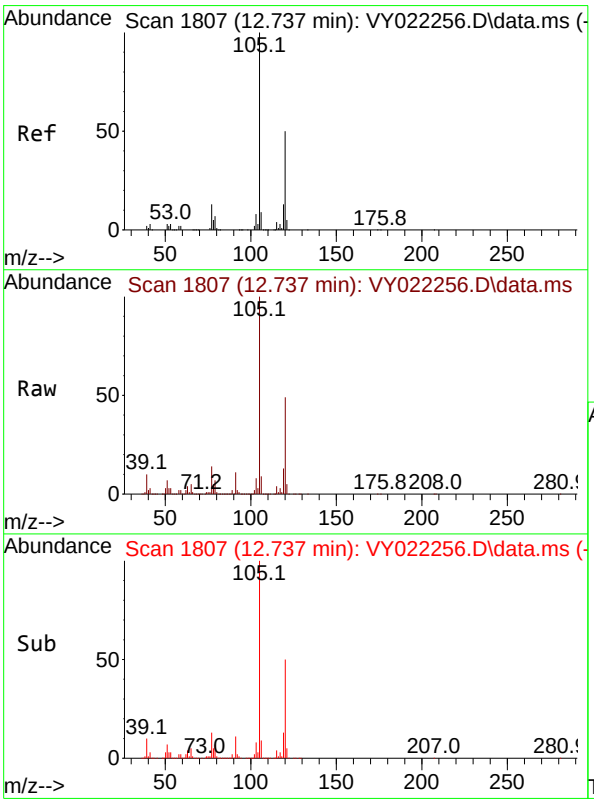
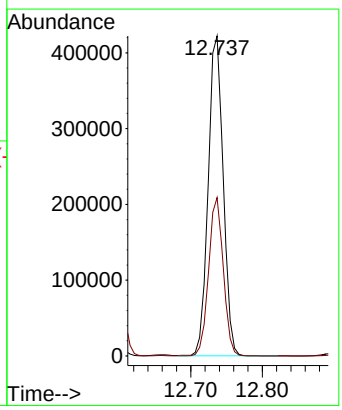
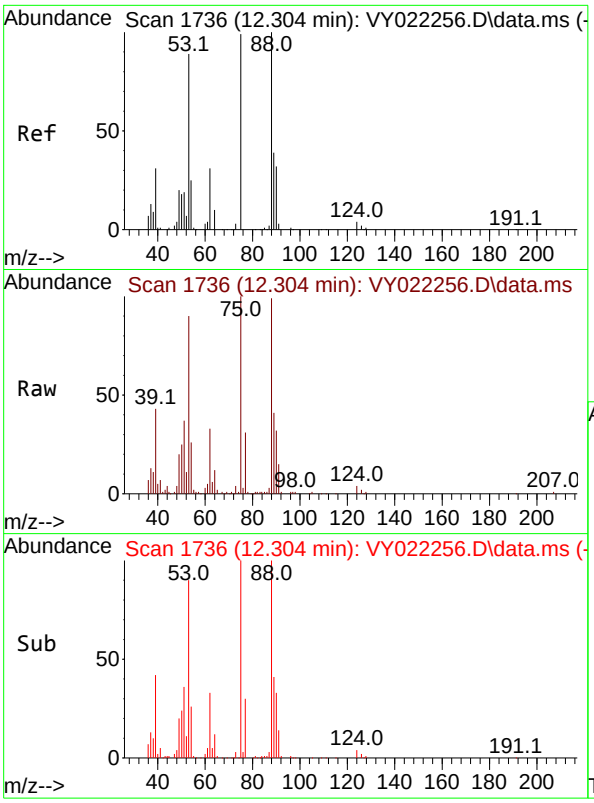



#80
1,3,5-Trimethylbenzene
Concen: 50.991 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:105 Resp: 615033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.4 | 24.2 | 72.6 |

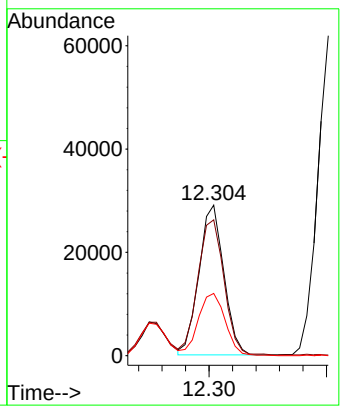





#81
trans-1,4-Dichloro-2-butene
Concen: 47.331 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 4269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 94.8 | 75.8 | 113.8 |
| 89 | 45.2 | 36.2 | 54.2 |




**Instrument :**
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**ClientSampleId :**
VSTDICCC050

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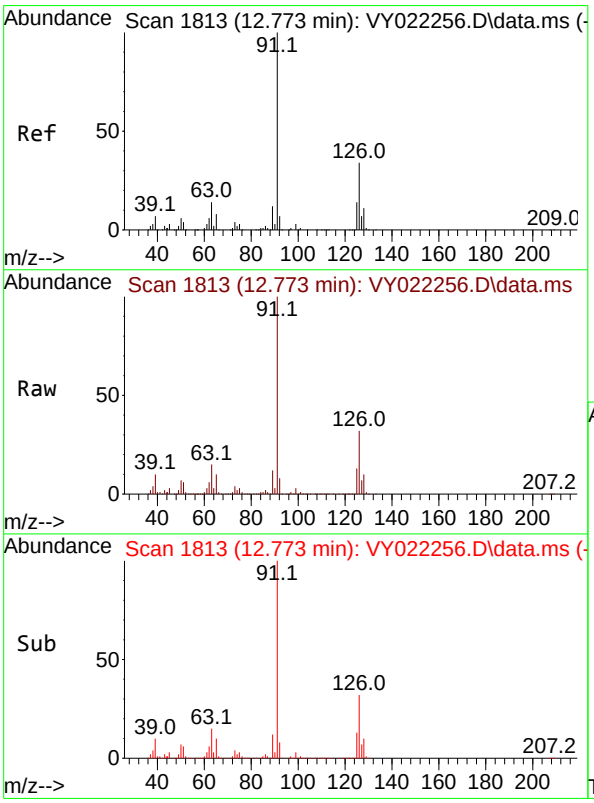
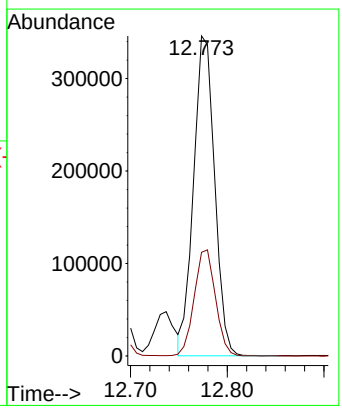
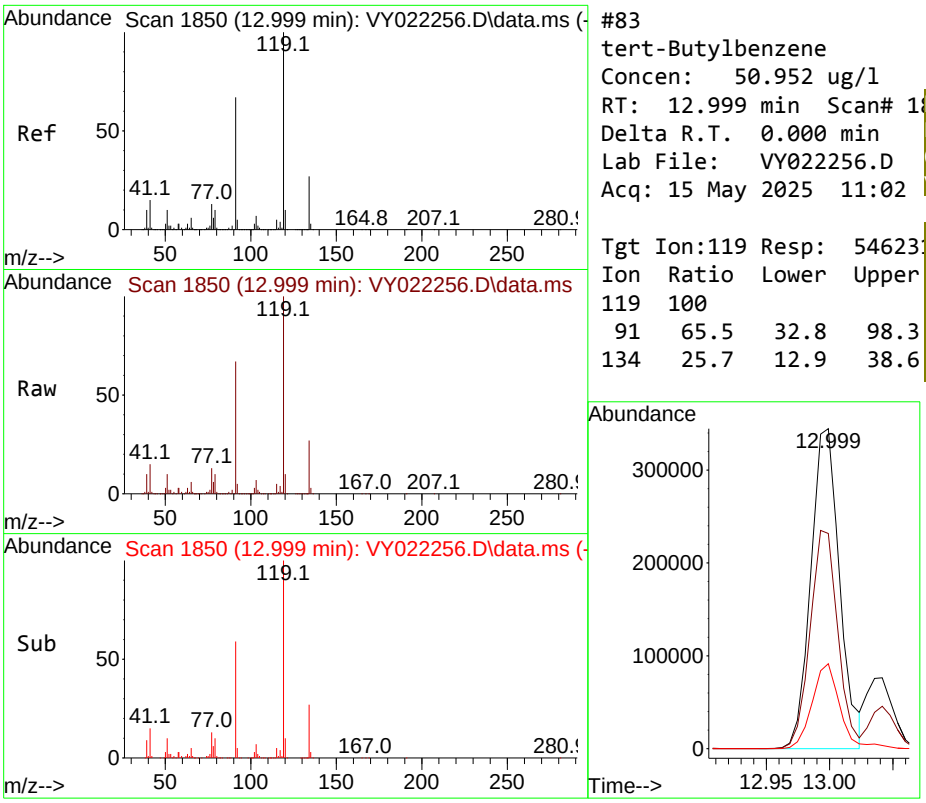



#82
4-Chlorotoluene
Concen: 51.464 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 91 Resp: 524270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.6 | 16.8 | 50.4 |






#83
tert-Butylbenzene
Concen: 50.952 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:119 Resp: 54623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.5 | 32.8 | 98.3 |
| 134 | 25.7 | 12.9 | 38.6 |




**Instrument :**
MSVOA_Y
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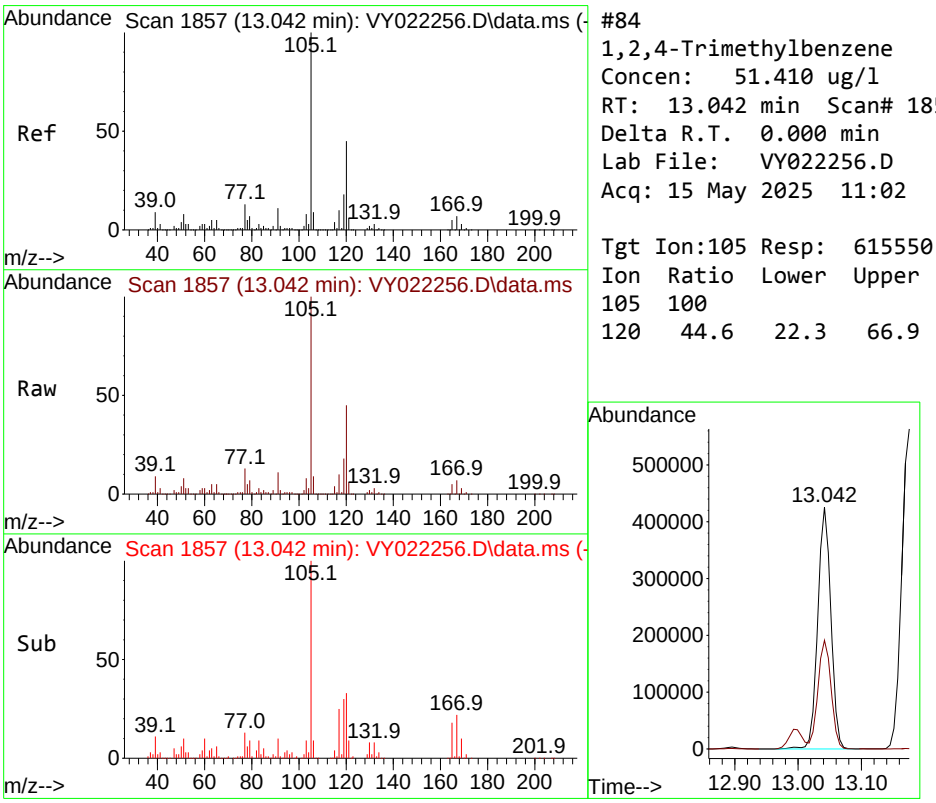
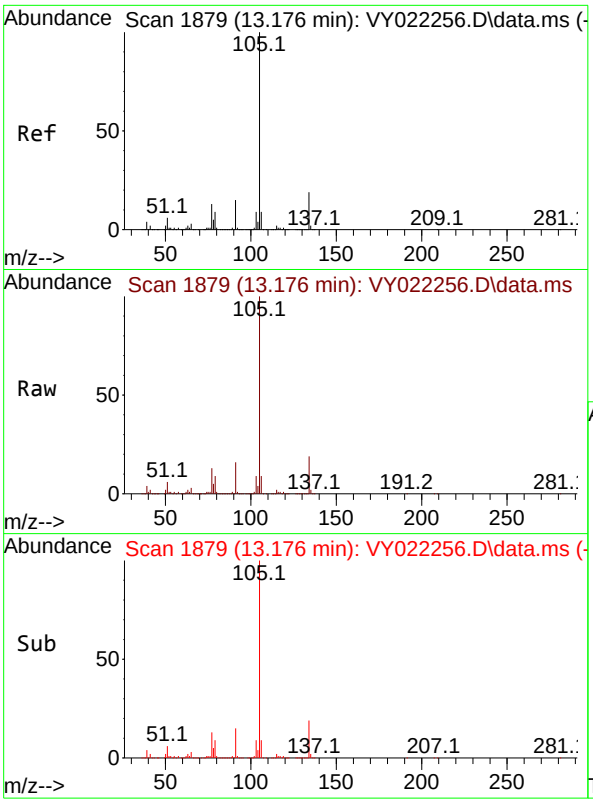



#84
1,2,4-Trimethylbenzene
Concen: 51.410 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:105 Resp: 615550

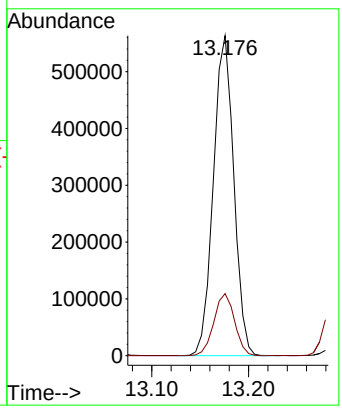
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.6 | 22.3 | 66.9 |




#85
sec-Butylbenzene
Concen: 51.825 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:105 Resp: 82472

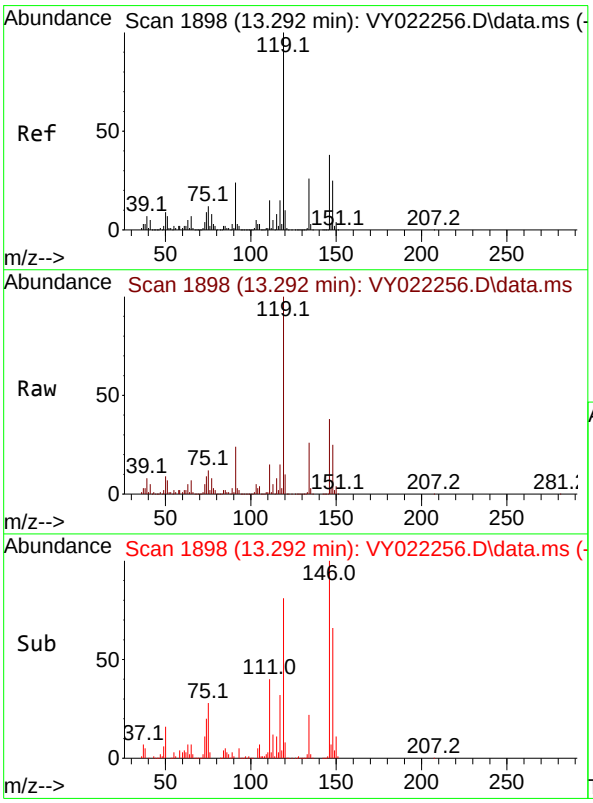
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.7 | 9.8 | 29.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

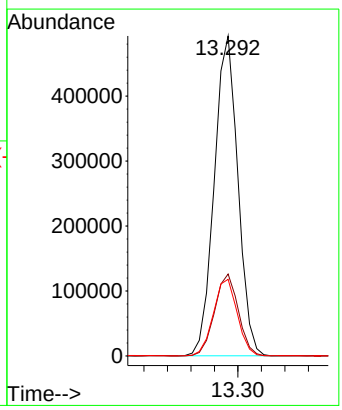
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

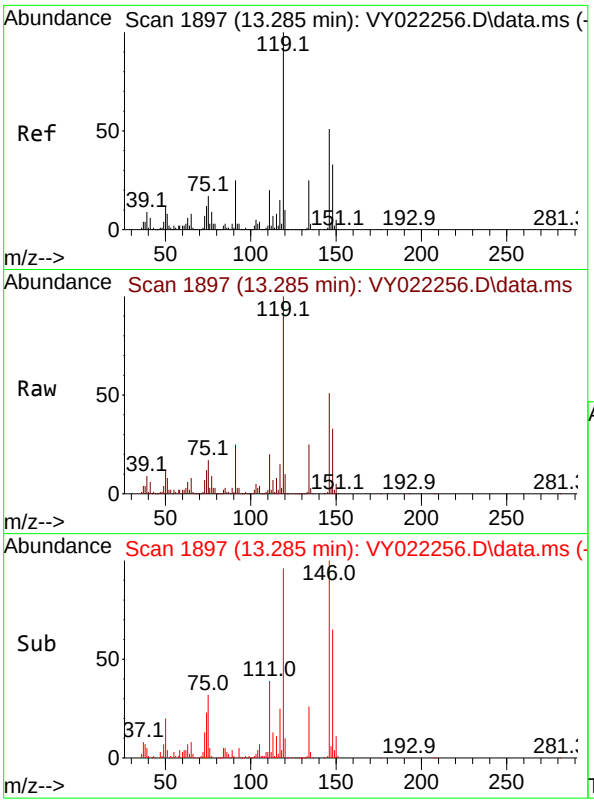



#86
p-Isopropyltoluene
Concen: 51.446 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:119 Resp: 688561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.7 | 12.9 | 38.6 |
| 91 | 24.2 | 12.1 | 36.3 |

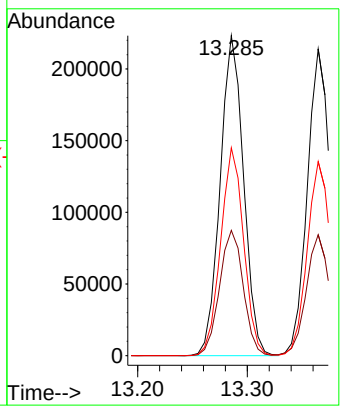





#87
1,3-Dichlorobenzene
Concen: 50.890 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:146 Resp: 33153

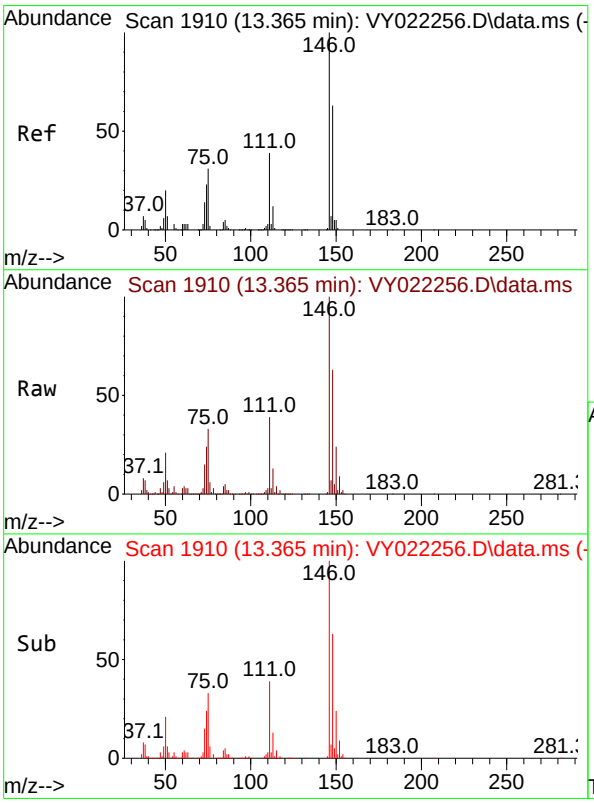
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.8 | 19.9 | 59.7 |
| 148 | 63.8 | 31.9 | 95.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

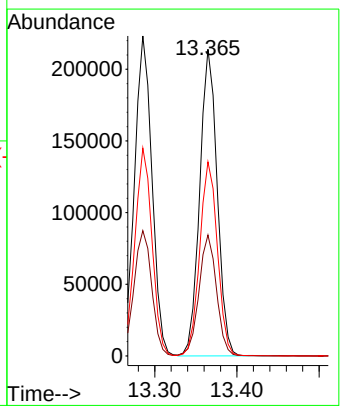
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

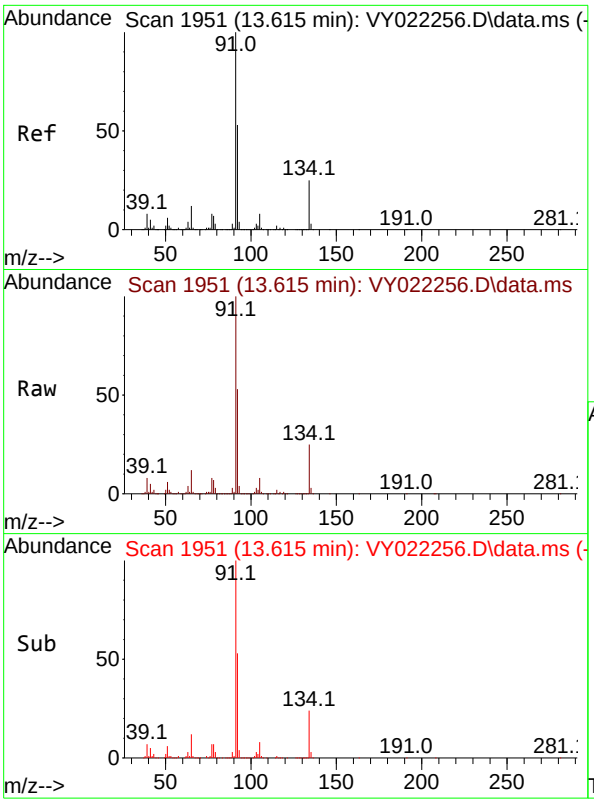



#88
1,4-Dichlorobenzene
Concen: 50.363 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:146 Resp: 315598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 20.0 | 59.9 |
| 148 | 64.3 | 32.1 | 96.5 |

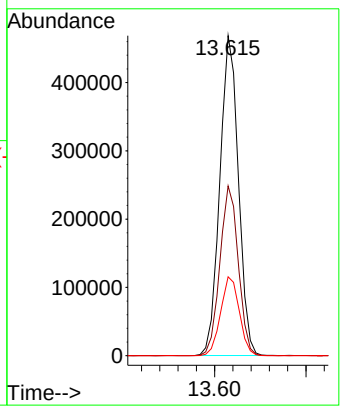





#89
n-Butylbenzene
Concen: 52.245 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 91 Resp: 66153

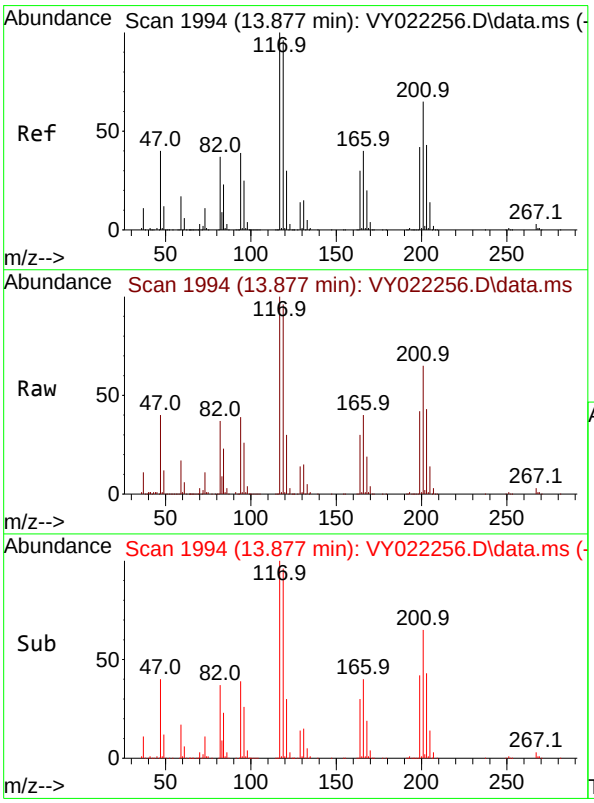
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.6 | 26.3 | 78.9 |
| 134 | 24.9 | 12.4 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

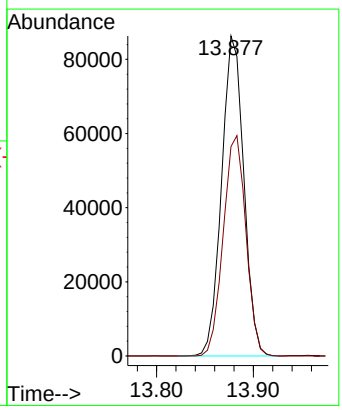
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

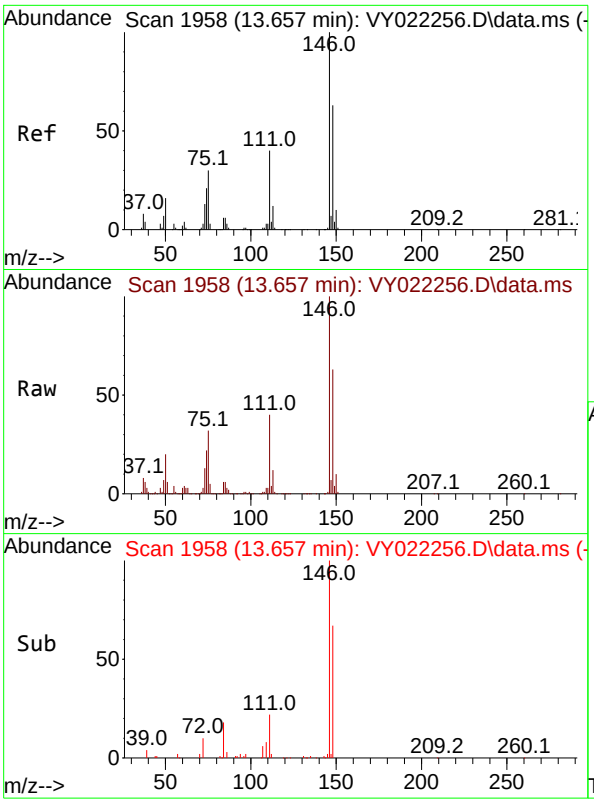



#90
Hexachloroethane
Concen: 50.791 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:117 Resp: 137225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 70.4 | 35.2 | 105.6 |

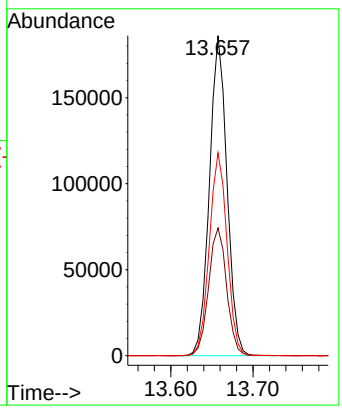





#91
1,2-Dichlorobenzene
Concen: 50.558 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:146 Resp: 27666

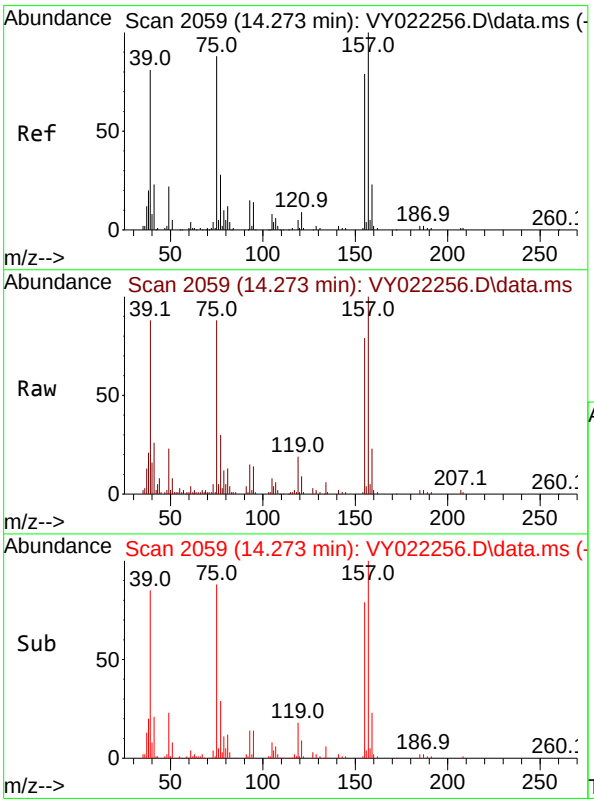
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.0 | 20.5 | 61.5 |
| 148 | 64.0 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

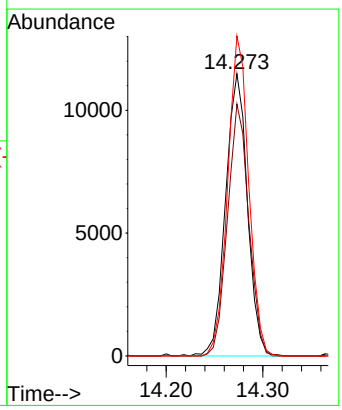
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

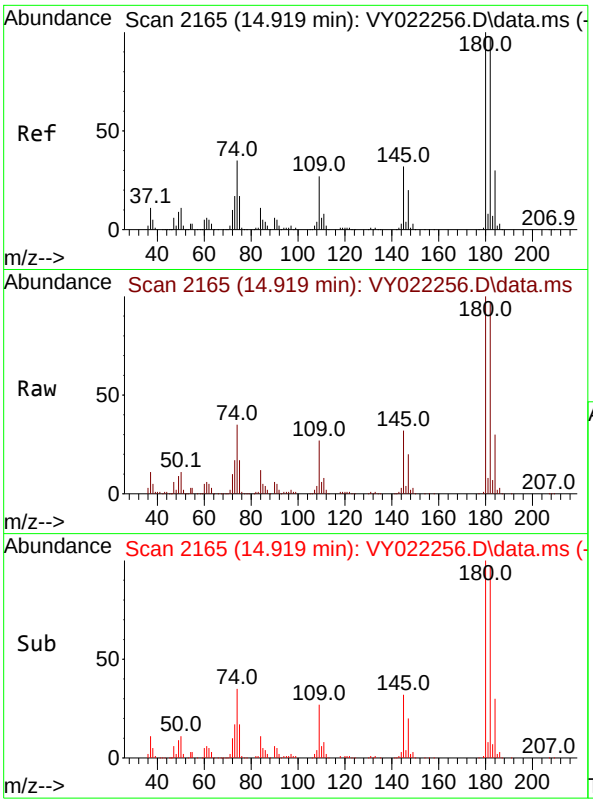



#92
1,2-Dibromo-3-Chloropropane
Concen: 48.682 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 18039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 86.7 | 43.4 | 130.1 |
| 157 | 109.3 | 54.6 | 163.9 |






#93
1,2,4-Trichlorobenzene
Concen: 51.338 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

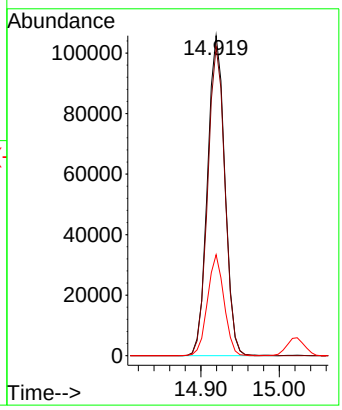
Tgt Ion:180 Resp: 16227

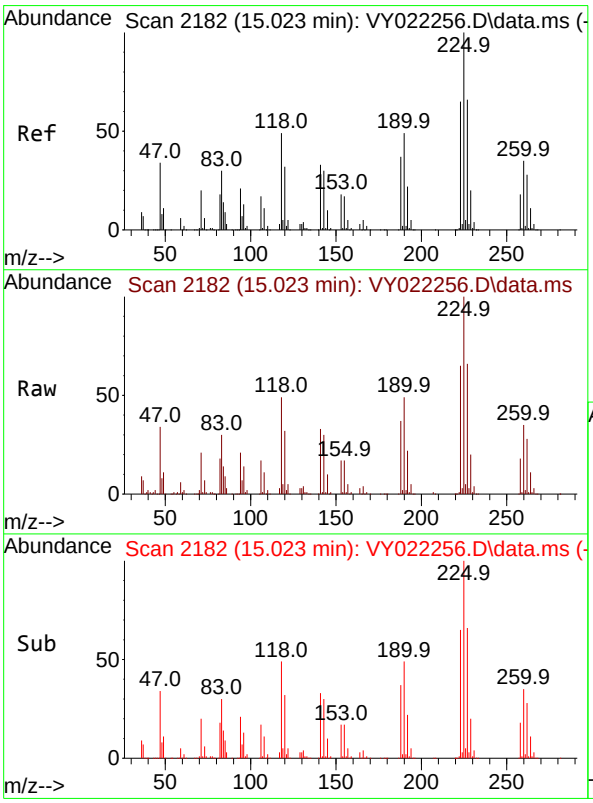
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.0 | 48.0 | 144.0 |
| 145 | 30.1 | 15.0 | 45.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

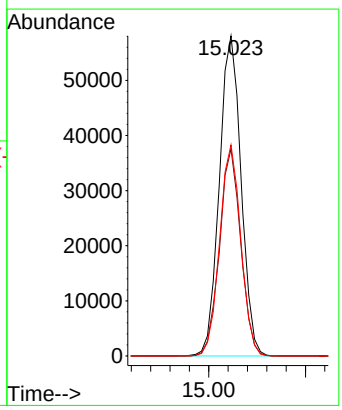


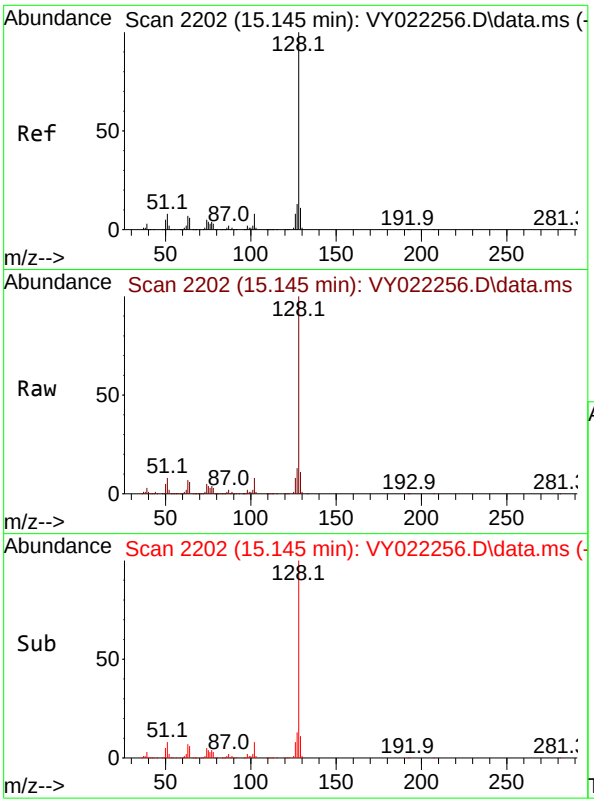




#94
Hexachlorobutadiene
Concen: 51.313 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:225 Resp: 90452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.0 | 31.5 | 94.5 |
| 227 | 64.2 | 32.1 | 96.3 |

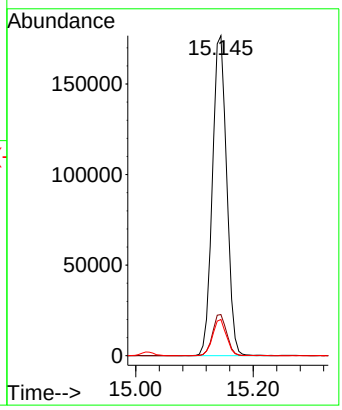





#95
Naphthalene
Concen: 49.692 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:128 Resp: 29807

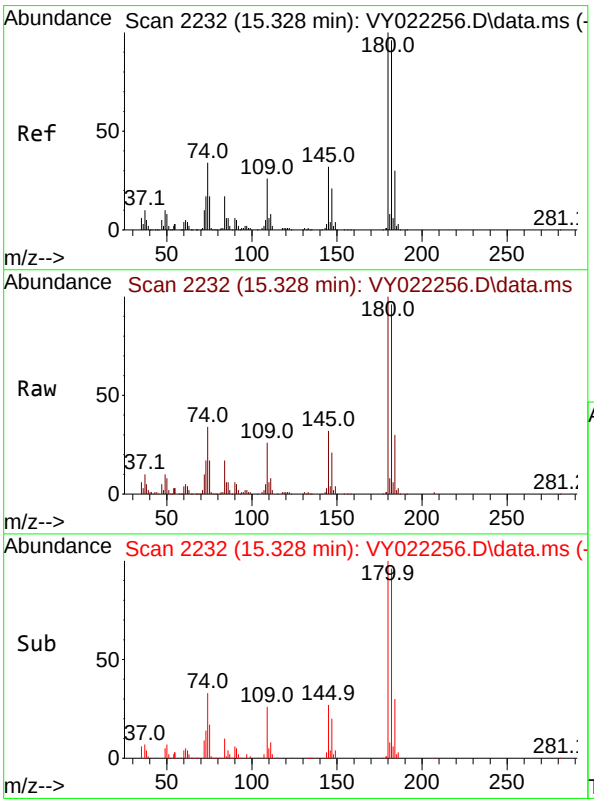
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.7 | 10.2 | 15.2 |
| 129 | 11.0 | 8.8 | 13.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

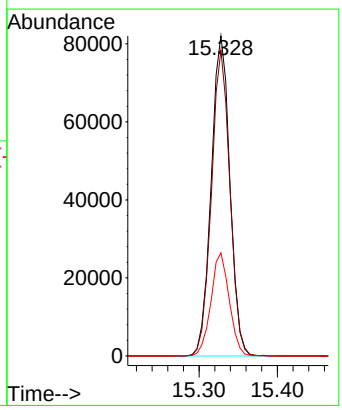
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025




#96
1,2,3-Trichlorobenzene
Concen: 50.596 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:180 Resp: 135673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.2 | 47.1 | 141.3 |
| 145 | 31.7 | 15.9 | 47.6 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022257.D
Acq On : 15 May 2025 11:24
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:24:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 268393 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 443341 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 385348 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 189780 | 50.000 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 292533 | 99.729 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 199.460%# | | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 262995 | 99.389 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 198.780%# | | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1076035 | 99.289 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 198.580%# | | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 343397 | 99.968 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 199.940%# | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 252438 | 90.138 | ug/l | | 99 |
| 3) Chloromethane | 2.062 | 50 | 561441 | 95.302 | ug/l | | 100 |
| 4) Vinyl Chloride | 2.202 | 62 | 639001 | 97.085 | ug/l | | 96 |
| 5) Bromomethane | 2.586 | 94 | 512452 | 95.642 | ug/l | | 98 |
| 6) Chloroethane | 2.732 | 64 | 393556 | 96.113 | ug/l | | 99 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 650265 | 97.581 | ug/l | | 100 |
| 8) Diethyl Ether | 3.452 | 74 | 158375 | 99.031 | ug/l | | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 272288 | 94.120 | ug/l | | 99 |
| 10) Methyl Iodide | 4.000 | 142 | 349345 | 104.334 | ug/l | | 100 |
| 11) Tert butyl alcohol | 4.872 | 59 | 112593 | 502.655 | ug/l | # | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 277897 | 96.798 | ug/l | | 97 |
| 13) Acrolein | 3.653 | 56 | 156649 | 478.373 | ug/l | | 99 |
| 14) Allyl chloride | 4.378 | 41 | 500514 | 99.429 | ug/l | | 100 |
| 15) Acrylonitrile | 5.055 | 53 | 340325 | 516.458 | ug/l | | 99 |
| 16) Acetone | 3.872 | 43 | 252327 | 458.767 | ug/l | | 99 |
| 17) Carbon Disulfide | 4.104 | 76 | 901081 | 96.251 | ug/l | | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 185837 | 111.043 | ug/l | | 100 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 807404 | 101.997 | ug/l | | 98 |
| 20) Methylene Chloride | 4.610 | 84 | 305912 | 86.076 | ug/l | | 98 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 311460 | 98.288 | ug/l | | 97 |
| 22) Diisopropyl ether | 6.018 | 45 | 1075035 | 101.128 | ug/l | | 99 |
| 23) Vinyl Acetate | 5.957 | 43 | 3259000 | 507.456 | ug/l | | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 586479 | 98.750 | ug/l | | 99 |
| 25) 2-Butanone | 6.890 | 43 | 467301 | 507.932 | ug/l | | 97 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 515990 | 97.682 | ug/l | | 100 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 368826 | 100.861 | ug/l | | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 251676 | 99.349 | ug/l | | 100 |
| 29) Tetrahydrofuran | 7.262 | 42 | 312286 | 527.609 | ug/l | | 100 |
| 30) Chloroform | 7.421 | 83 | 565823 | 99.326 | ug/l | | 98 |
| 31) Cyclohexane | 7.701 | 56 | 535839 | 90.301 | ug/l | | 99 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 506927 | 96.995 | ug/l | | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 429153 | 98.465 | ug/l | | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 213152 | 101.642 | ug/l | | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 451589 | 100.097 | ug/l | | 98 |
| 39) Methylcyclohexane | 9.109 | 83 | 566259 | 96.704 | ug/l | | 98 |
| 40) Benzene | 8.079 | 78 | 1313733 | 101.677 | ug/l | | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022257.D
Acq On : 15 May 2025 11:24
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:24:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 131157m | 85.474 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 356974 | 102.165 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 473430 | 103.517 | ug/l | | 99 |
| 44) Trichloroethene | 8.865 | 130 | 315543 | 98.218 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 314179 | 100.858 | ug/l | | 98 |
| 46) Dibromomethane | 9.231 | 93 | 170712 | 101.606 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 446829 | 102.514 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 229512 | 107.308 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.231 | 88 | 37780 | 1990.455 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 1218685 | 543.068 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 839400 | 102.593 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 441672 | 103.832 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 498023 | 102.190 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 219460 | 102.005 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.438 | 69 | 353013 | 105.335 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 391514 | 102.420 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 872907 | 580.295 | ug/l | | 99 |
| 59) 2-Hexanone | 10.761 | 43 | 809288 | 537.872 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 292143 | 104.616 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 207266 | 103.362 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 343677 | 96.489 | ug/l | | 99 |
| 65) Chlorobenzene | 11.438 | 112 | 881086 | 101.346 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 307866 | 103.007 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 1674355 | 102.836 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 1271299 | 207.213 | ug/l | | 100 |
| 69) o-Xylene | 11.956 | 106 | 602390 | 103.777 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 1028498 | 105.038 | ug/l | | 100 |
| 71) Bromoform | 12.133 | 173 | 168679 | 104.561 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 1528857 | 97.241 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 468707 | 104.235 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 244830 | 101.255 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 197600m | 59.078 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 337329 | 100.456 | ug/l | | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 1846449 | 97.365 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 1026401 | 98.488 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 1233838 | 97.216 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 93252 | 98.251 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 1061772 | 99.052 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 1092617 | 96.859 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 1263612 | 100.297 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 1634720 | 97.623 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 1424684 | 101.161 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 697868 | 101.803 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 654104 | 99.199 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 1310061 | 98.327 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 275652 | 96.961 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 576915 | 100.192 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 41275 | 105.859 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 342939 | 103.107 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 180060 | 97.075 | ug/l | | 100 |
| 95) Naphthalene | 15.145 | 128 | 674950 | 106.935 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 294823 | 104.488 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022257.D
Acq On : 15 May 2025 11:24
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:24:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

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

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

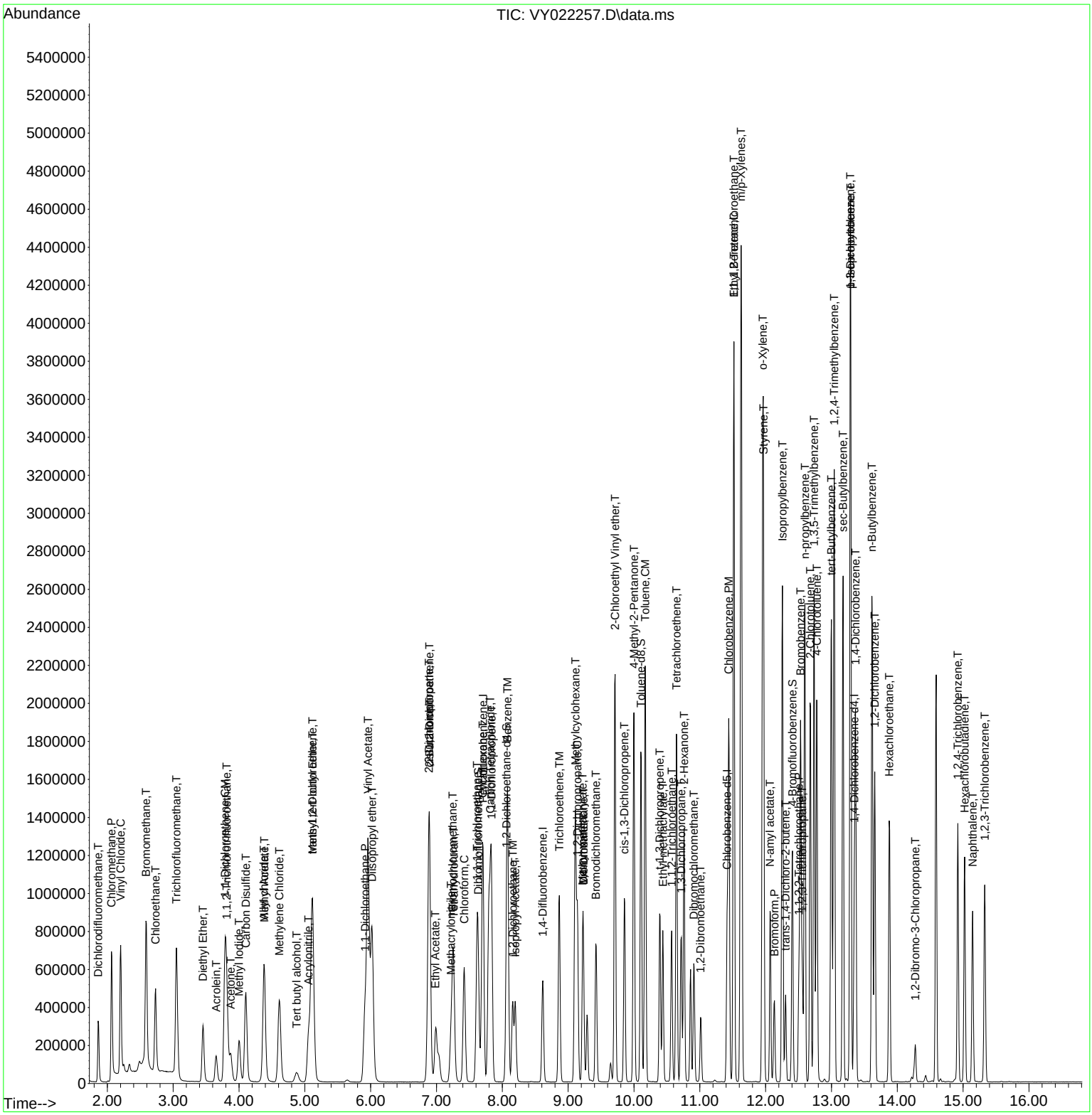
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022257.D
Acq On : 15 May 2025 11:24
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

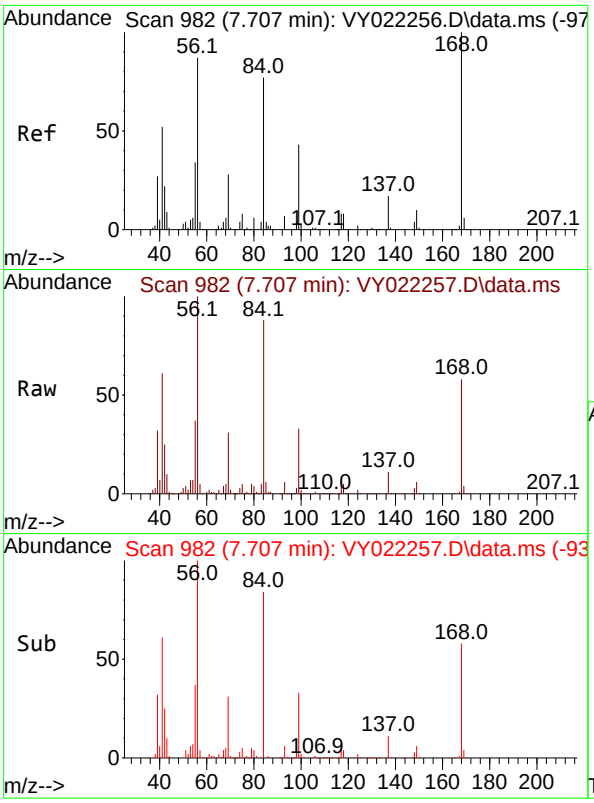
Quant Time: May 16 01:24:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

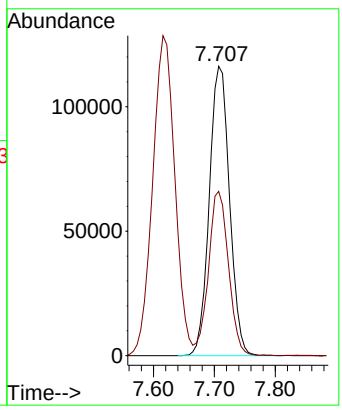





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:168 Resp: 26839

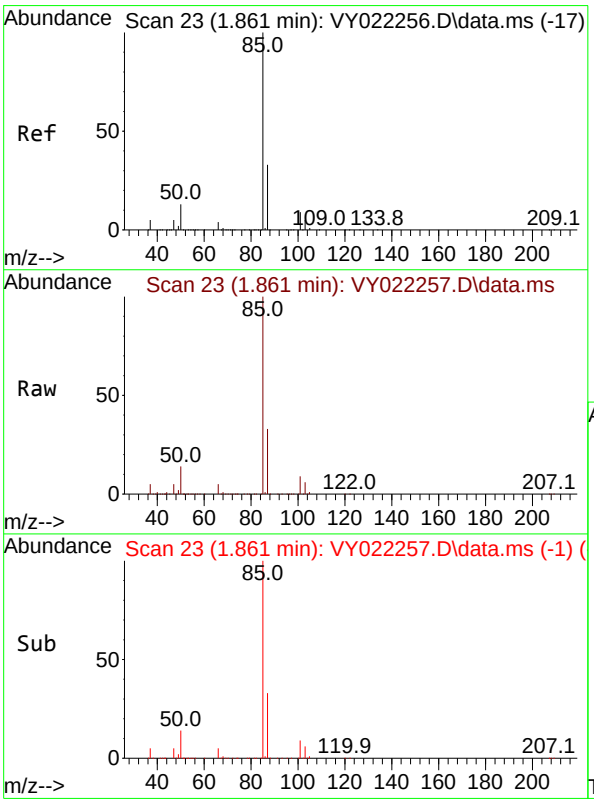
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.7 | 44.2 | 66.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

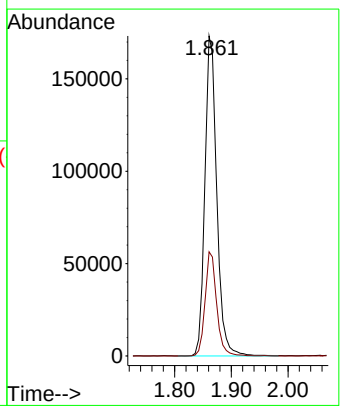
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

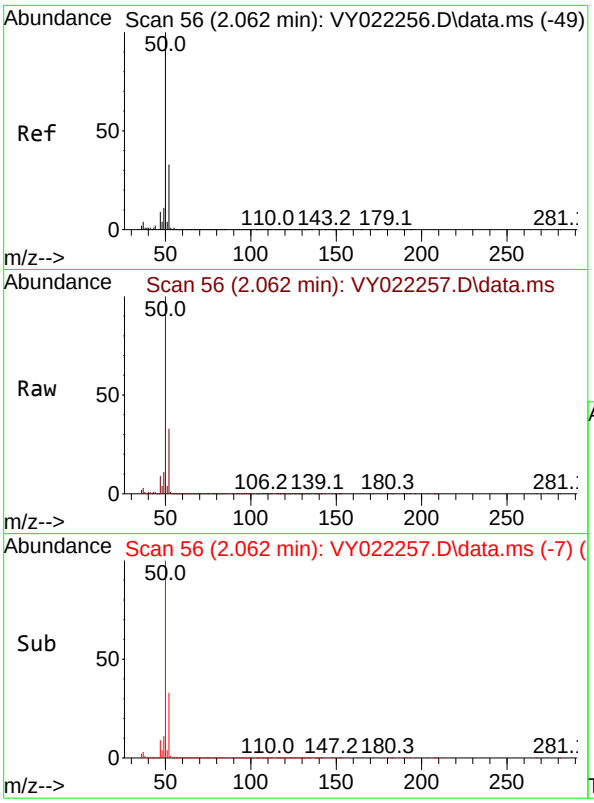



#2
Dichlorodifluoromethane
Concen: 90.138 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 85 Resp: 252438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.6 | 16.5 | 49.5 |

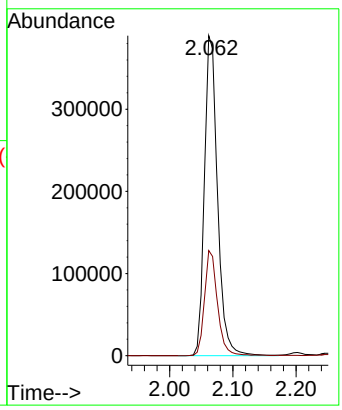





#3
Chloromethane
Concen: 95.302 ug/l
RT: 2.062 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 50 Resp: 56144

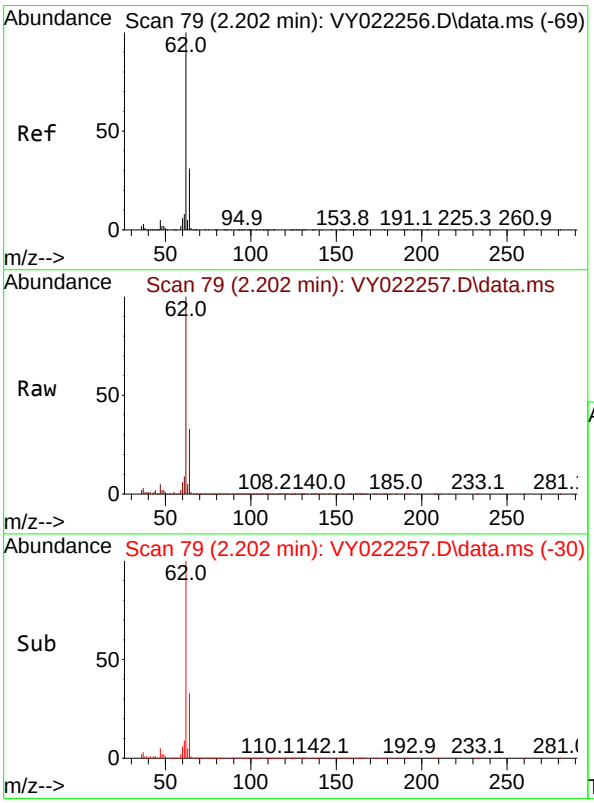
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 26.5 | 39.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

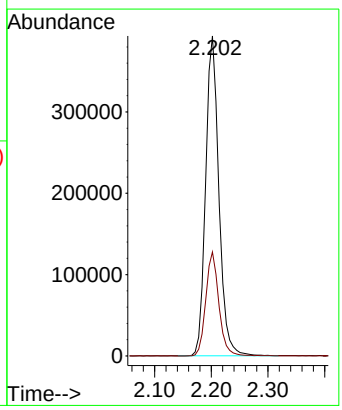
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

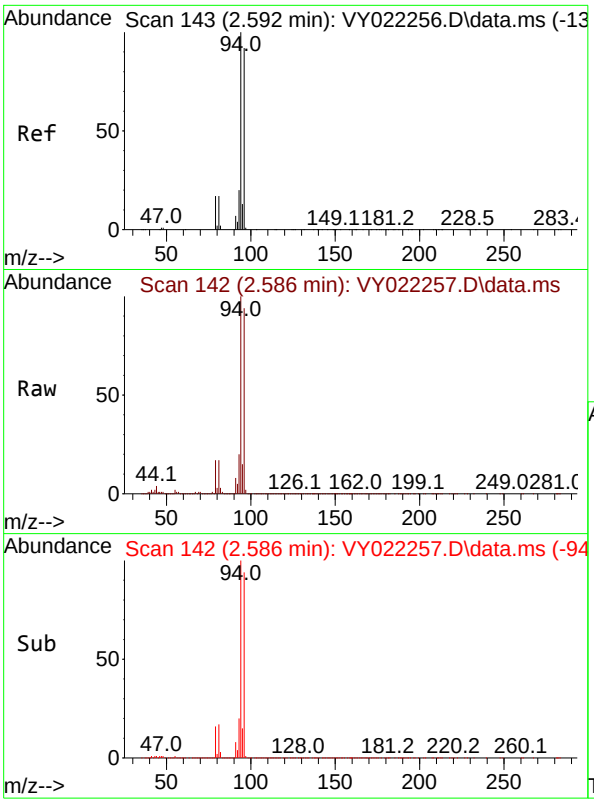



#4
Vinyl Chloride
Concen: 97.085 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 62 Resp: 639001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.5 | 24.5 | 36.7 |

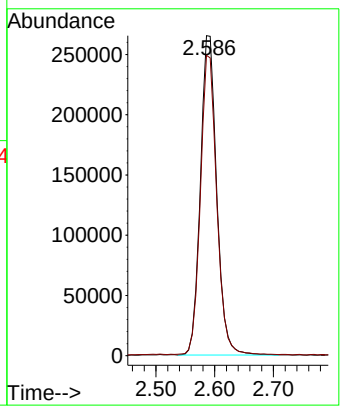





#5
Bromomethane
Concen: 95.642 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 94 Resp: 51245

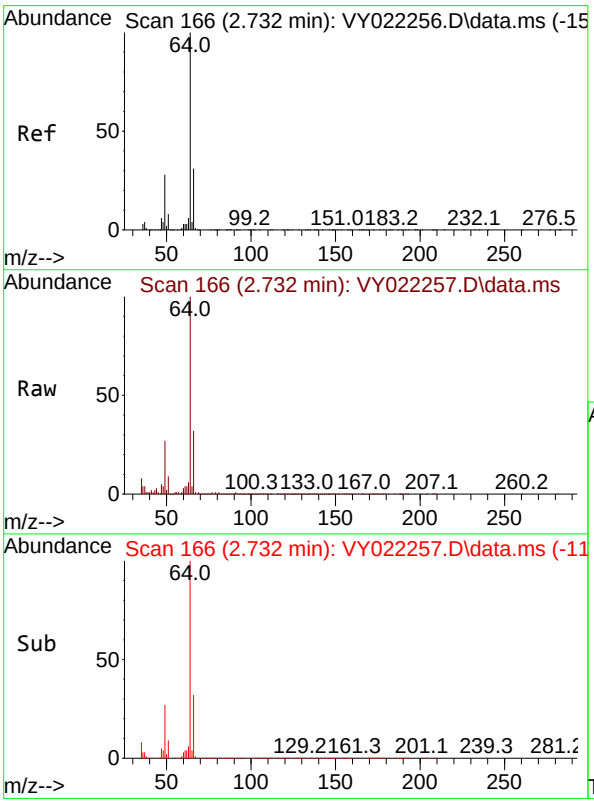
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.7 | 73.4 | 110.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

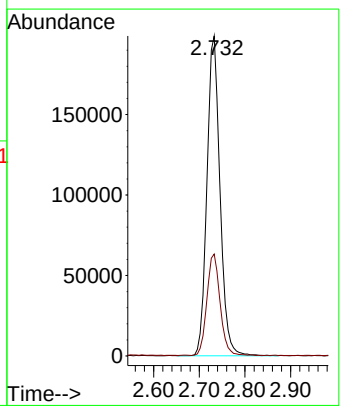
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

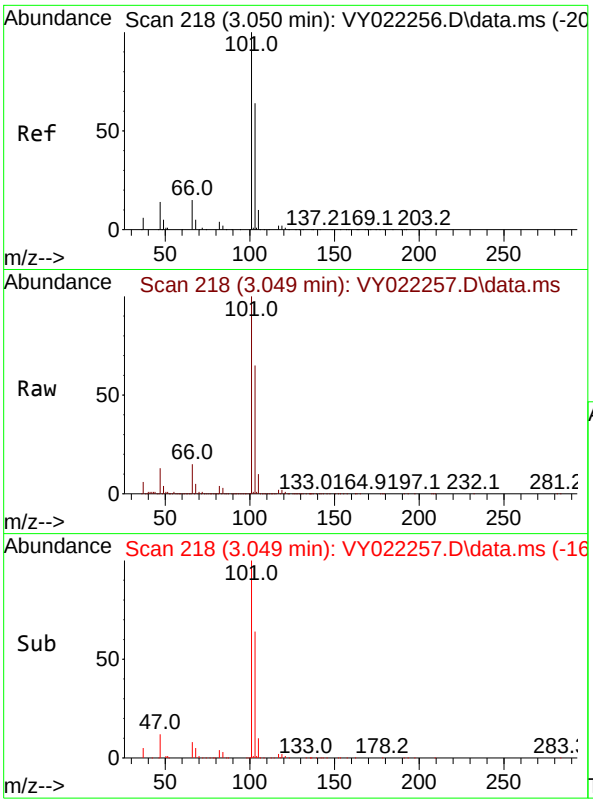



#6
Chloroethane
Concen: 96.113 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 64 Resp: 393556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.7 | 24.8 | 37.2 |

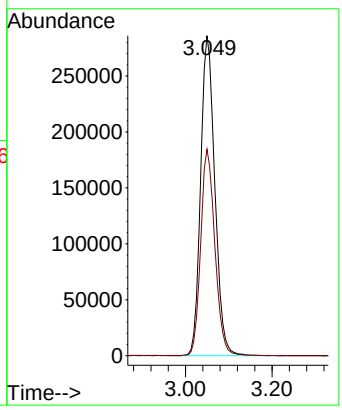





#7
Trichlorofluoromethane
Concen: 97.581 ug/l
RT: 3.049 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:101 Resp: 65026

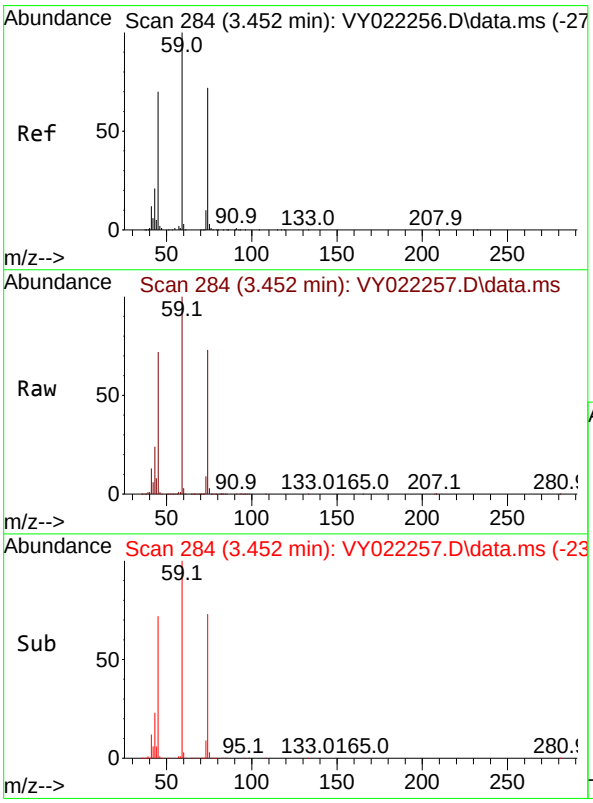
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.5 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

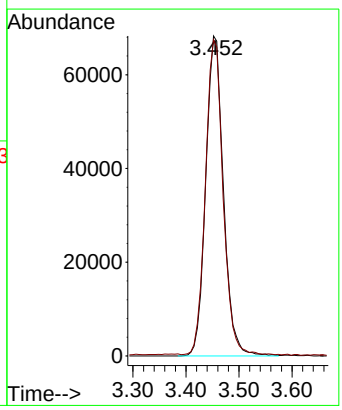
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

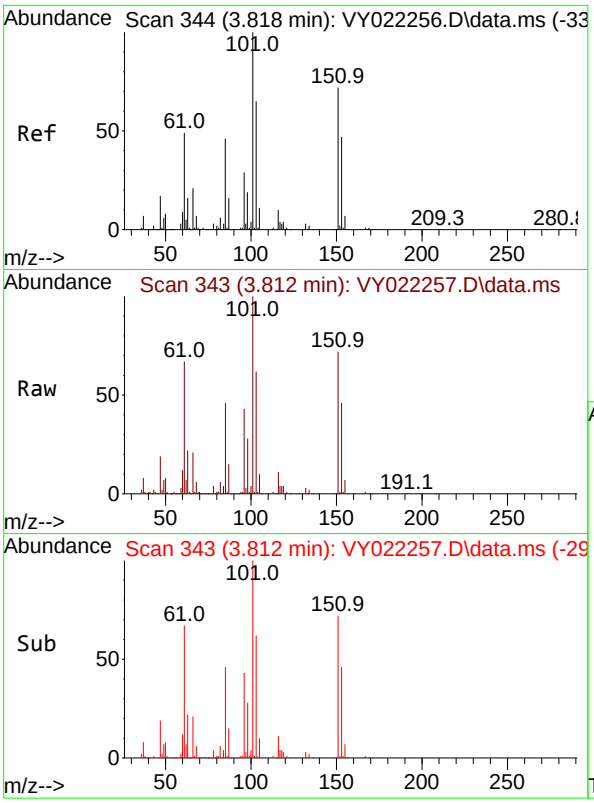



#8
Diethyl Ether
Concen: 99.031 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 74 Resp: 158375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 97.9 | 48.6 | 145.8 |

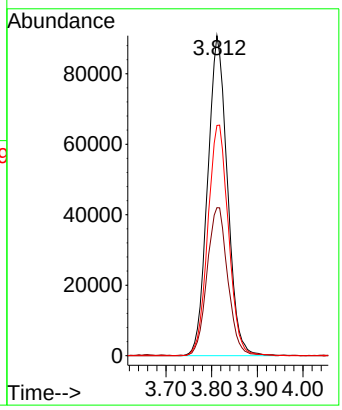





#9
1,1,2-Trichlorotrifluoroethane
Concen: 94.120 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:101 Resp: 27228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 48.8 | 38.6 | 58.0 |
| 151 | 75.3 | 59.7 | 89.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
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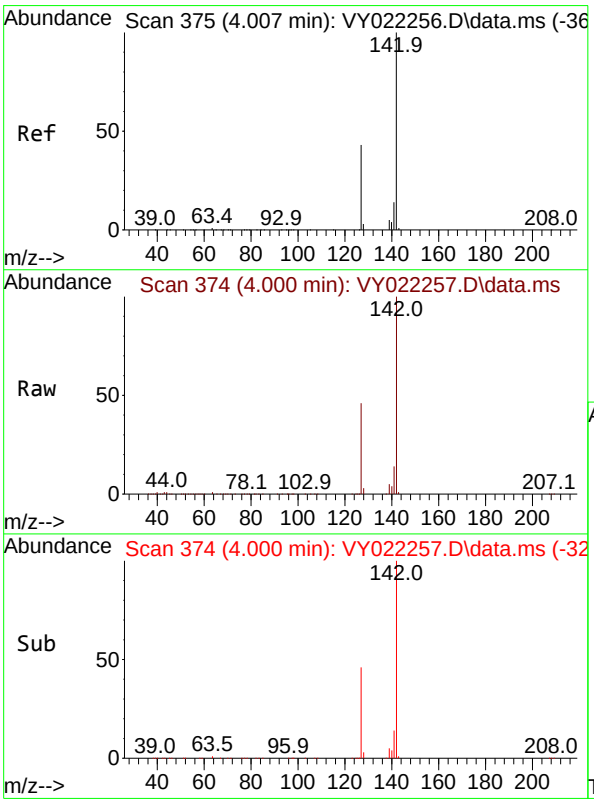
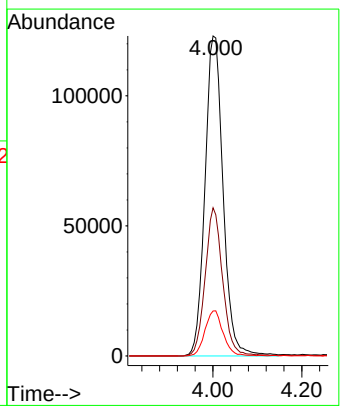
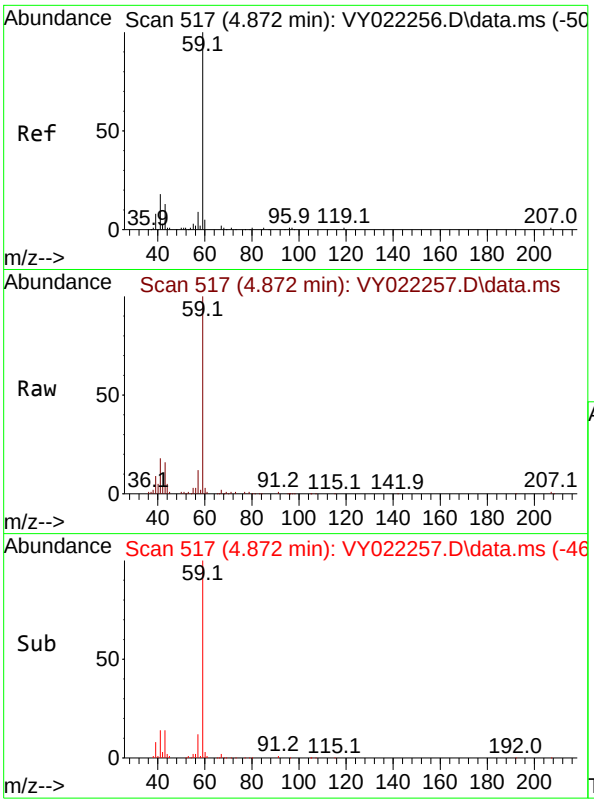



#10
Methyl Iodide
Concen: 104.334 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:142 Resp: 349345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.8 | 35.7 | 53.5 |
| 141 | 14.1 | 11.1 | 16.7 |






#11
Tert butyl alcohol
Concen: 502.655 ug/l
RT: 4.872 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

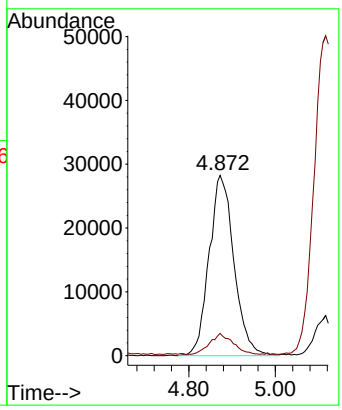
Tgt Ion: 59 Resp: 11259

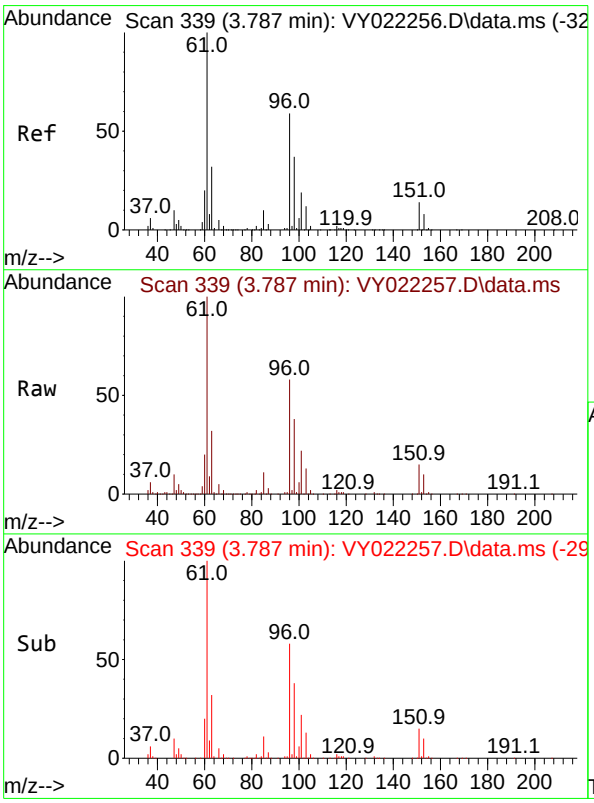
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.6 | 0.0 | 0.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

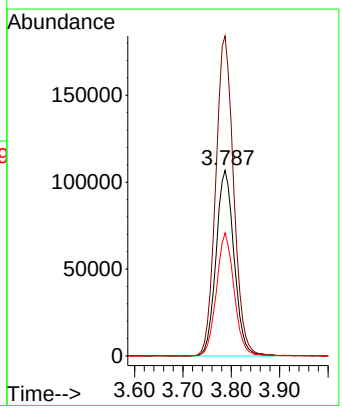


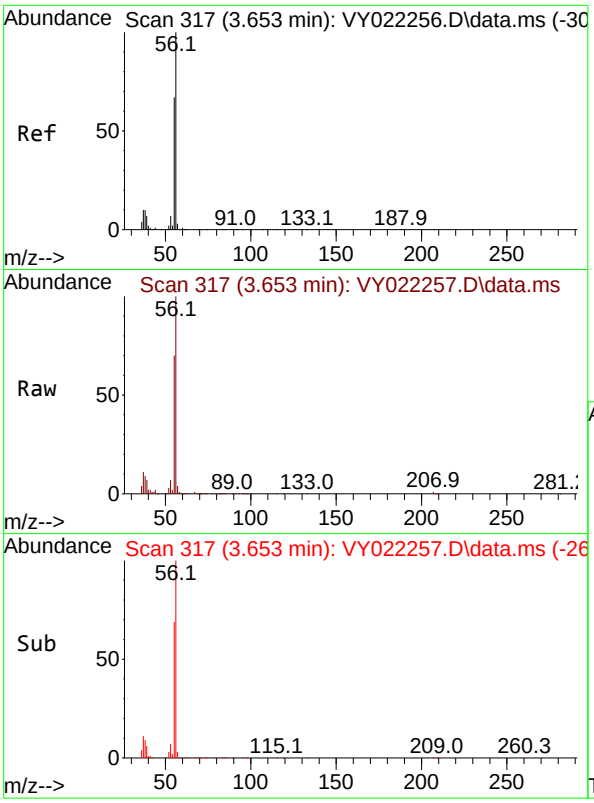




#12
1,1-Dichloroethene
Concen: 96.798 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 96 Resp: 277897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 172.4 | 134.9 | 202.3 |
| 98 | 66.2 | 49.9 | 74.9 |

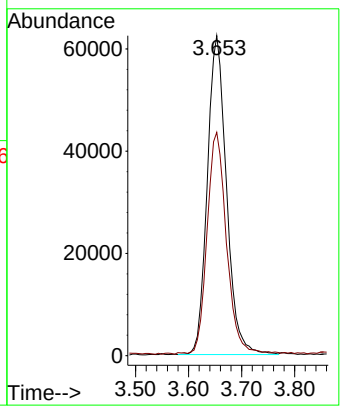





#13
Acrolein
Concen: 478.373 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 56 Resp: 15664

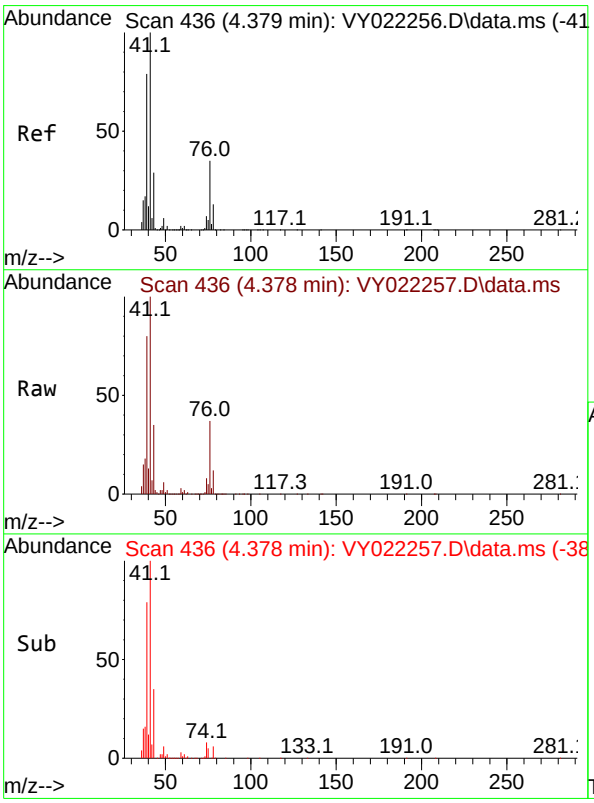
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.4 | 55.6 | 83.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

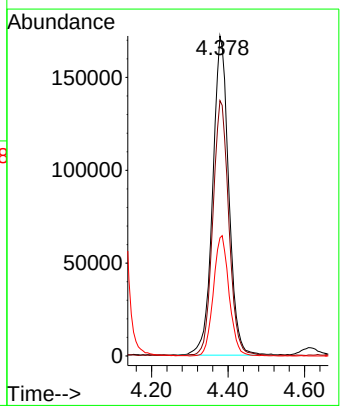
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

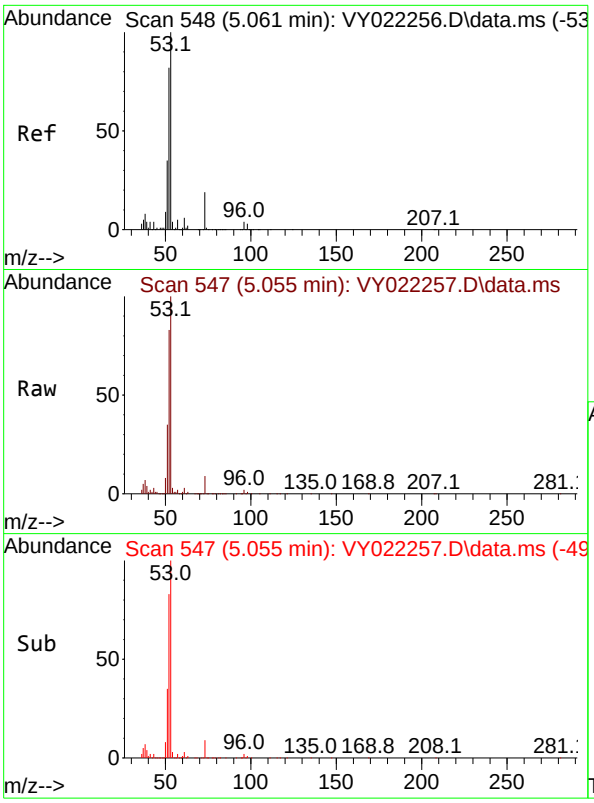



#14
Allyl chloride
Concen: 99.429 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 41 Resp: 500514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 79.4 | 63.4 | 95.0 |
| 76 | 36.9 | 29.5 | 44.3 |

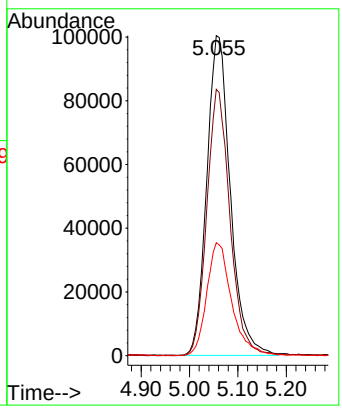





#15
Acrylonitrile
Concen: 516.458 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 53 Resp: 34032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.9 | 66.1 | 99.1 |
| 51 | 37.4 | 30.0 | 45.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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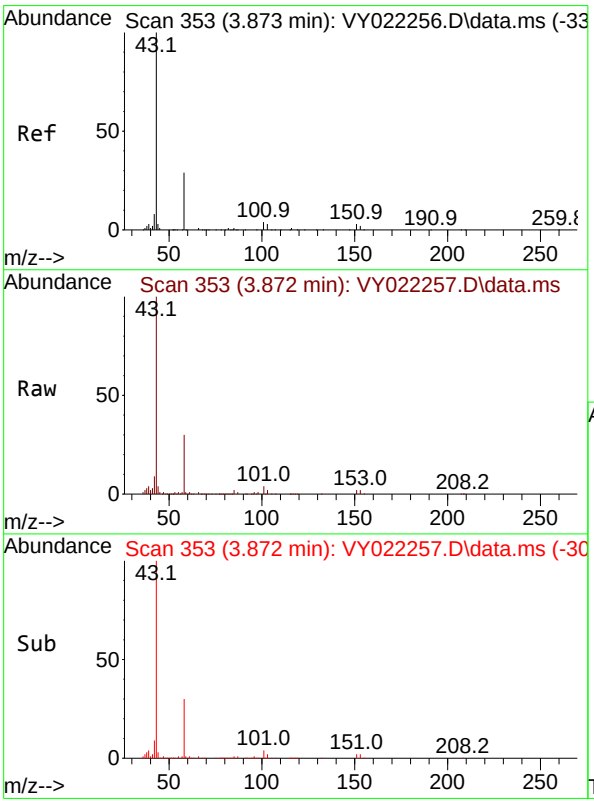
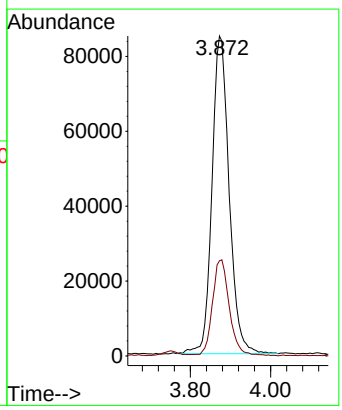
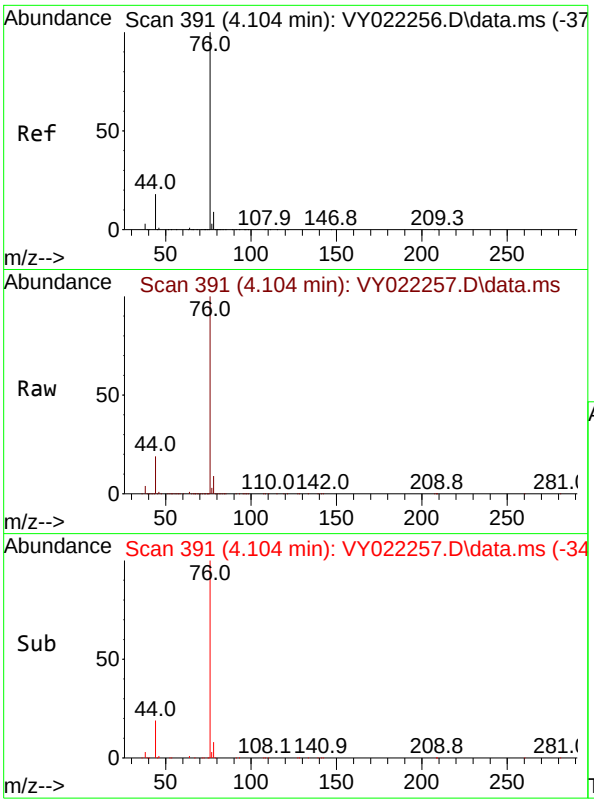



#16
Acetone
Concen: 458.767 ug/l
RT: 3.872 min Scan# 353
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 252327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.9 | 23.6 | 35.4 |






#17
Carbon Disulfide
Concen: 96.251 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 76 Resp: 90108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.3 | 7.2 | 10.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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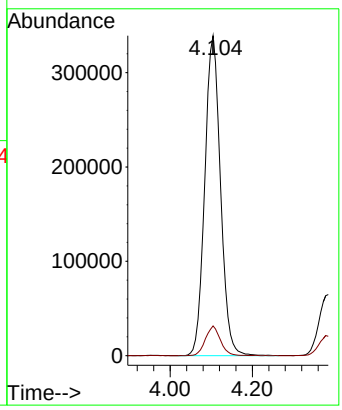
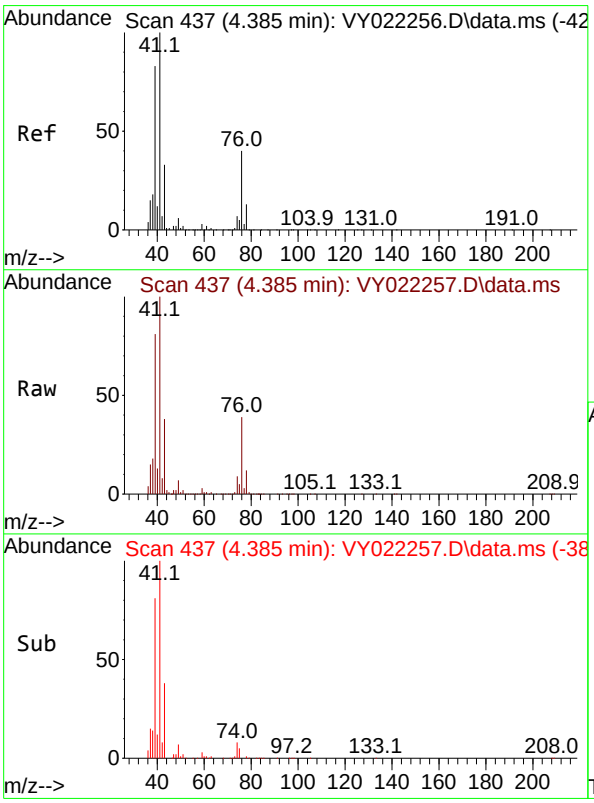
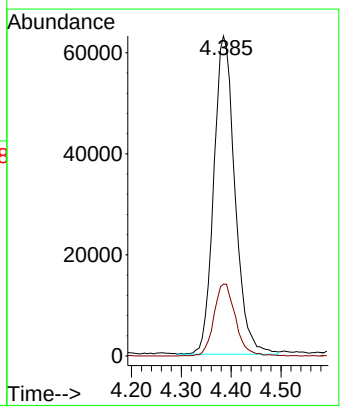


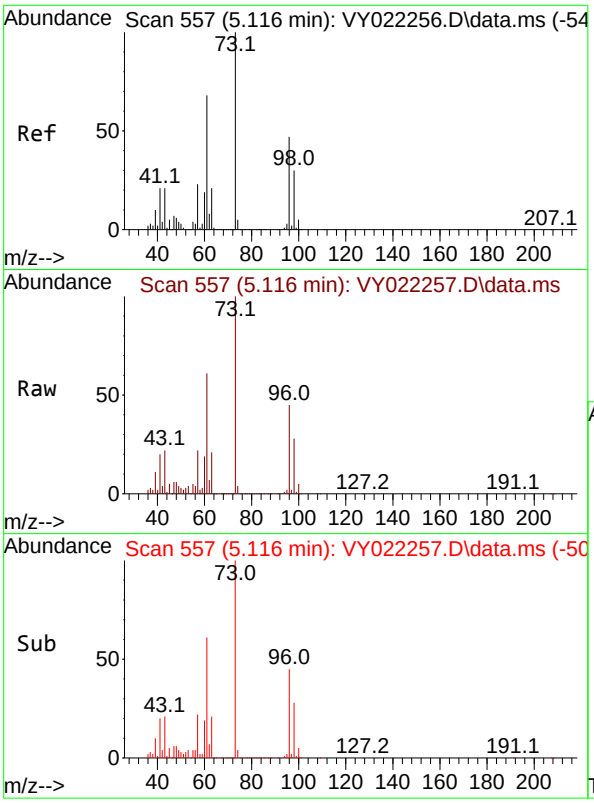




#18
Methyl Acetate
Concen: 111.043 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 185837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 22.9 | 18.2 | 27.4 |

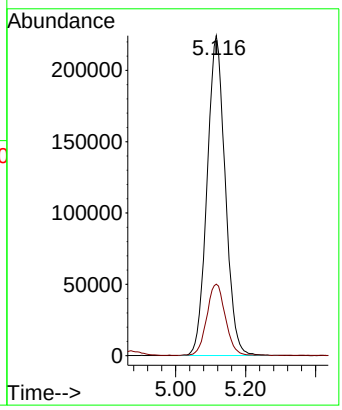





#19
Methyl tert-butyl Ether
Concen: 101.997 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 73 Resp: 80740

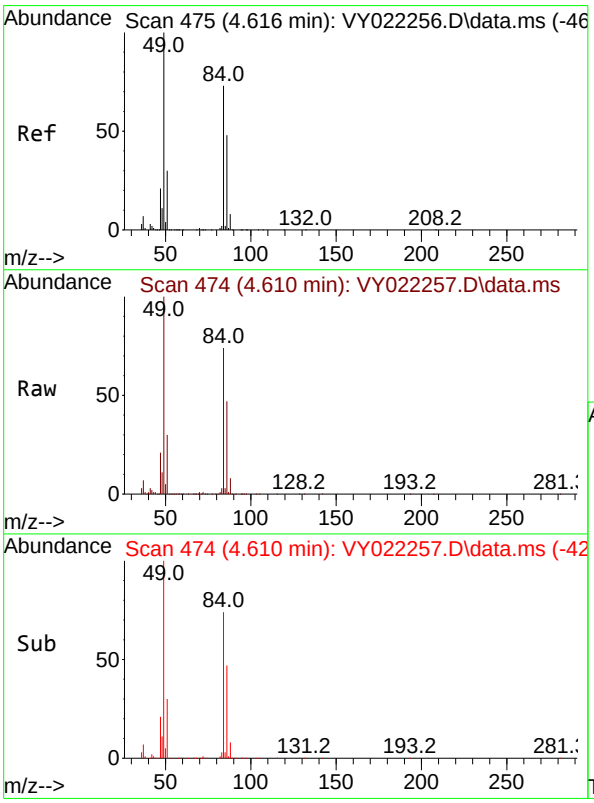
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.3 | 18.6 | 28.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

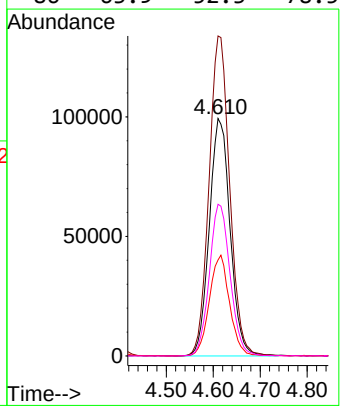
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

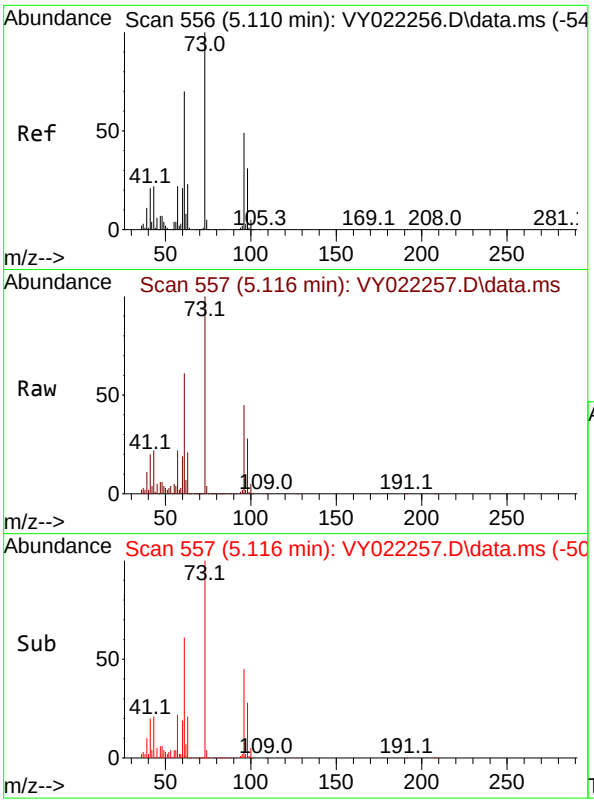



#20
Methylene Chloride
Concen: 86.076 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 84 Resp: 305912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 134.8 | 109.6 | 164.4 |
| 51 | 40.3 | 32.4 | 48.6 |
| 86 | 63.9 | 52.3 | 78.5 |

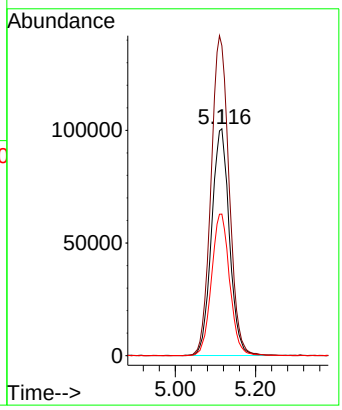





#21
trans-1,2-Dichloroethene
Concen: 98.288 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 96 Resp: 31146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.7 | 113.4 | 170.0 |
| 98 | 62.4 | 50.9 | 76.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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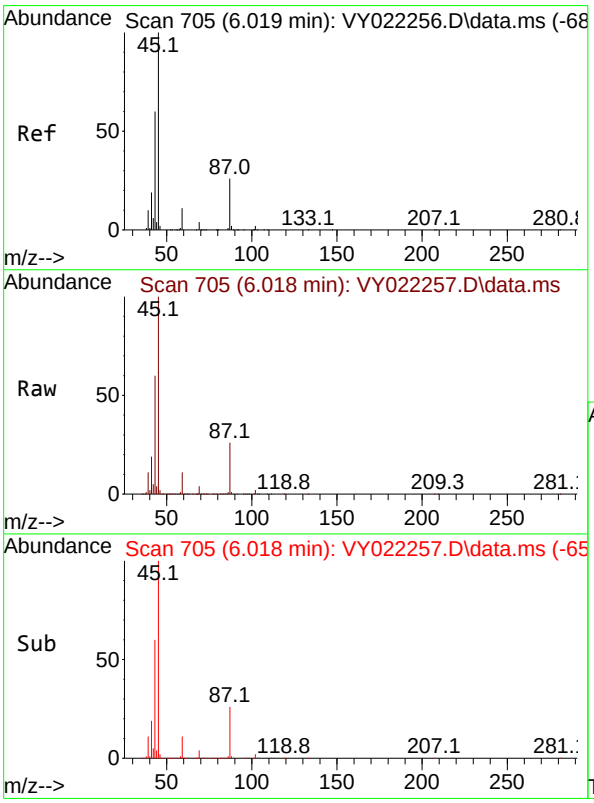
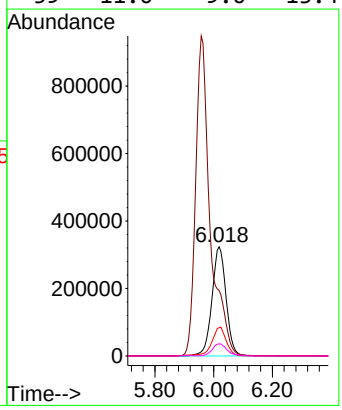
Supervised By :Semsettin Yesilyurt 05/16/2025

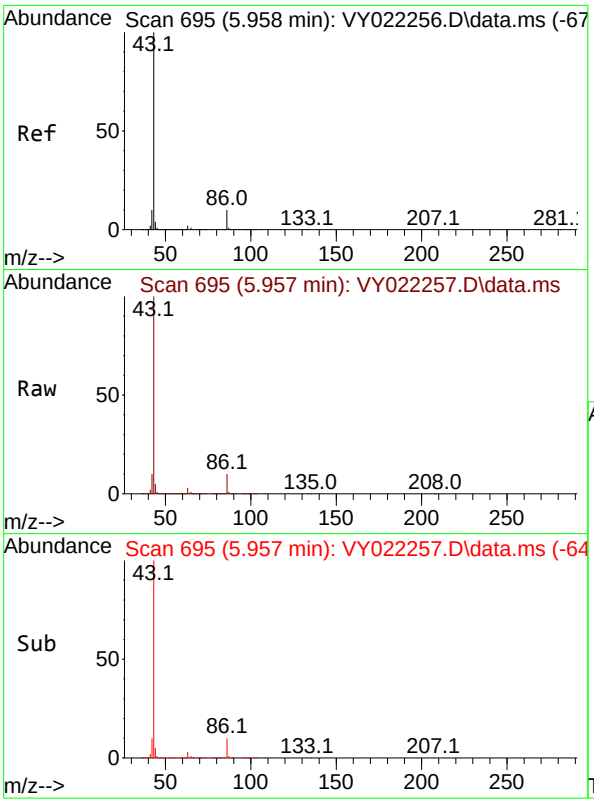



#22
Diisopropyl ether
Concen: 101.128 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 45 Resp: 1075035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.8 | 48.2 | 72.2 |
| 87 | 25.9 | 21.4 | 32.0 |
| 59 | 11.0 | 9.0 | 13.4 |

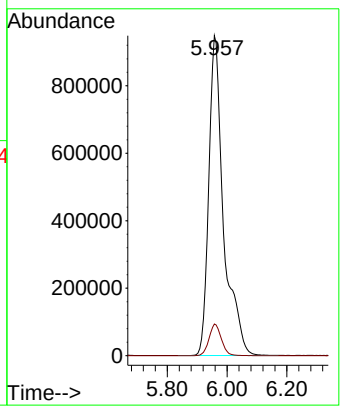





#23
Vinyl Acetate
Concen: 507.456 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 325900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.9 | 7.8 | 11.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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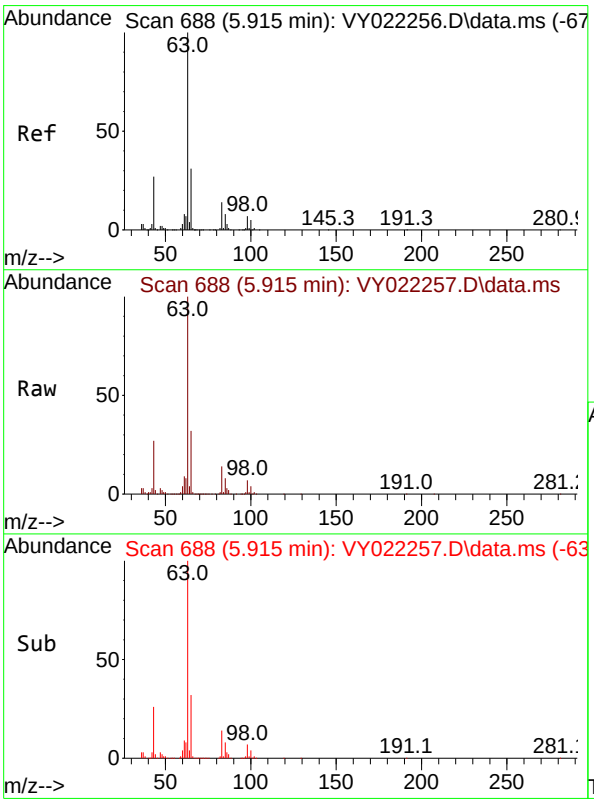
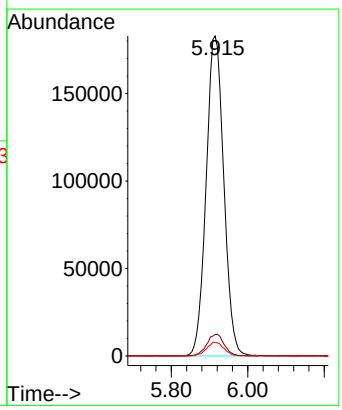
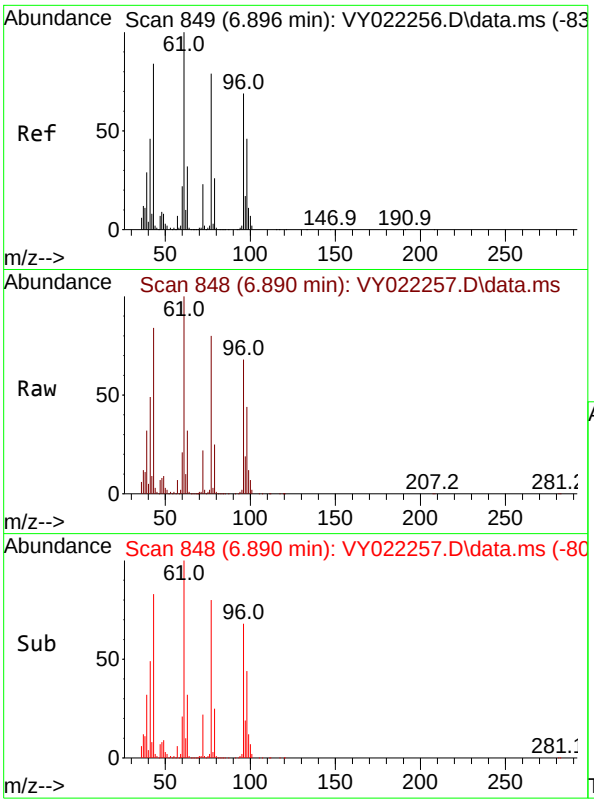



#24
1,1-Dichloroethane
Concen: 98.750 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 63 Resp: 586479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.7 | 3.5 | 10.5 |
| 100 | 4.2 | 2.4 | 7.2 |






#25
2-Butanone
Concen: 507.932 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 46730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.8 | 22.1 | 33.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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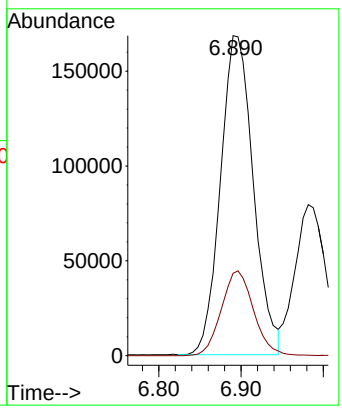
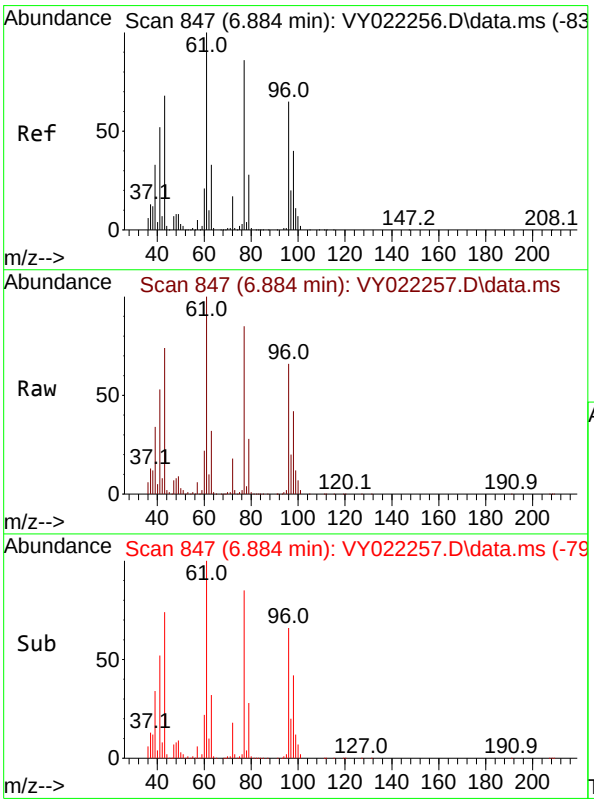
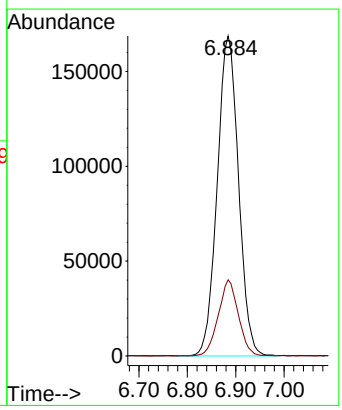


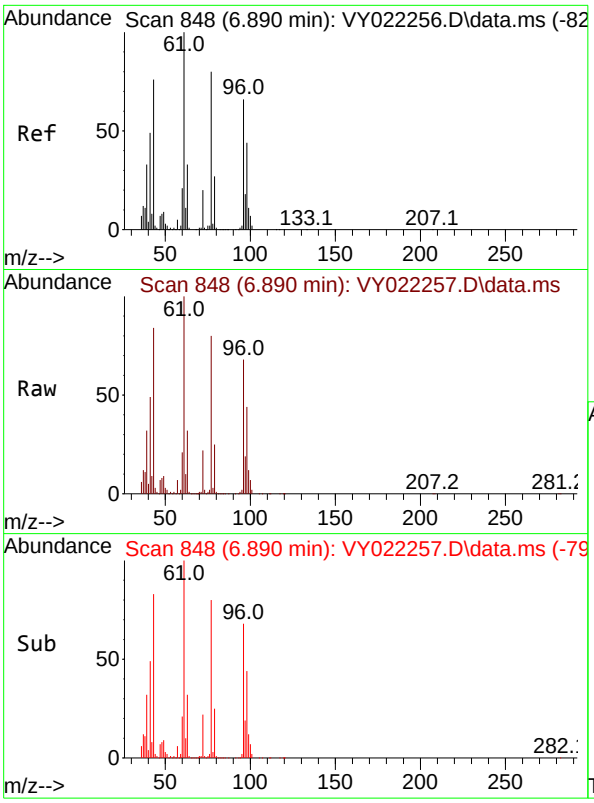




#26
2,2-Dichloropropane
Concen: 97.682 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 77 Resp: 515990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.5 | 11.2 | 33.5 |






#27
cis-1,2-Dichloroethene
Concen: 100.861 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 96 Resp: 36882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 152.0 | 0.0 | 302.6 |
| 98 | 64.6 | 0.0 | 128.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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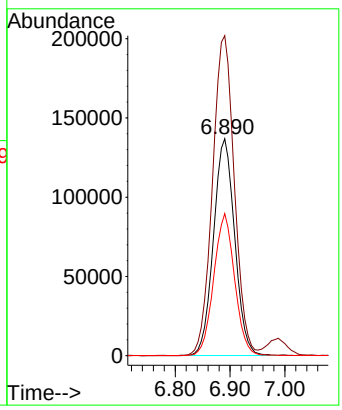
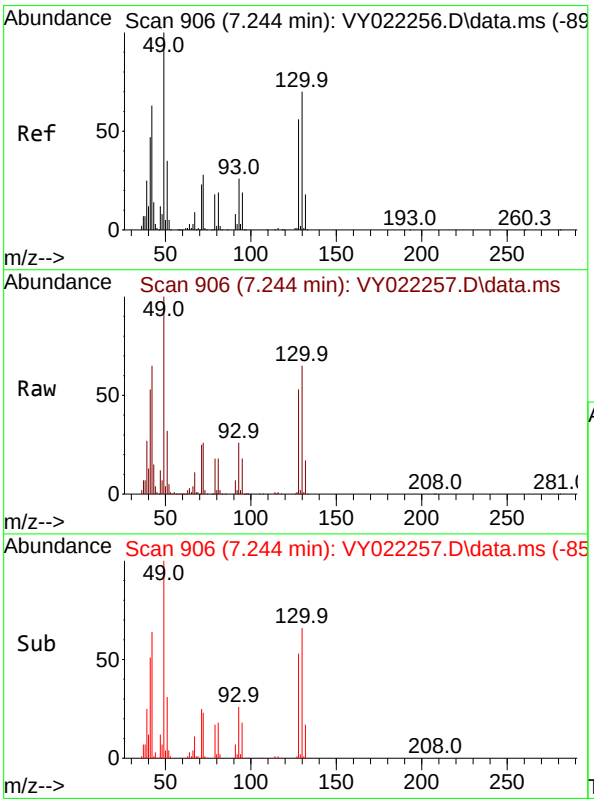
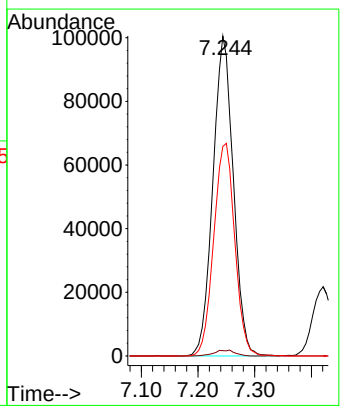


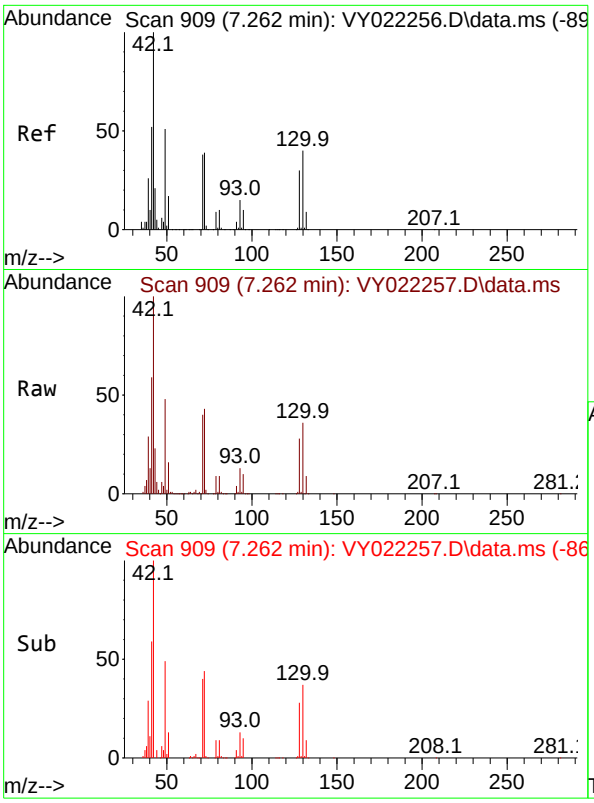




#28
Bromochloromethane
Concen: 99.349 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 49 Resp: 251676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 3.6 |
| 130 | 68.4 | 54.7 | 82.1 |

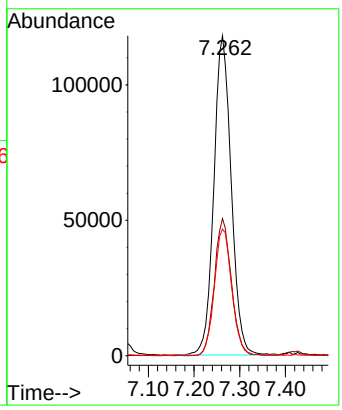





#29
Tetrahydrofuran
Concen: 527.609 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 42 Resp: 31228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.0 | 33.8 | 50.6 |
| 71 | 39.4 | 31.5 | 47.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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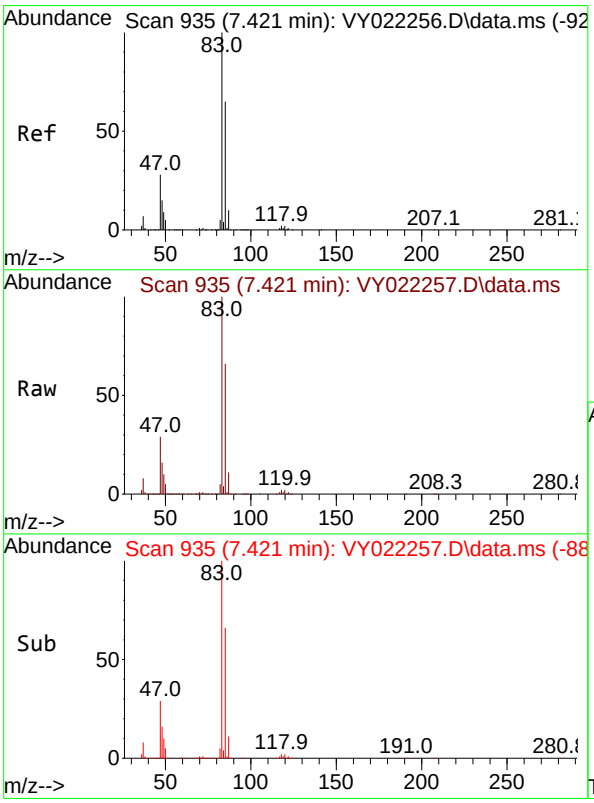
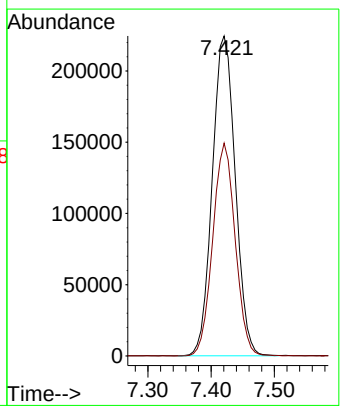
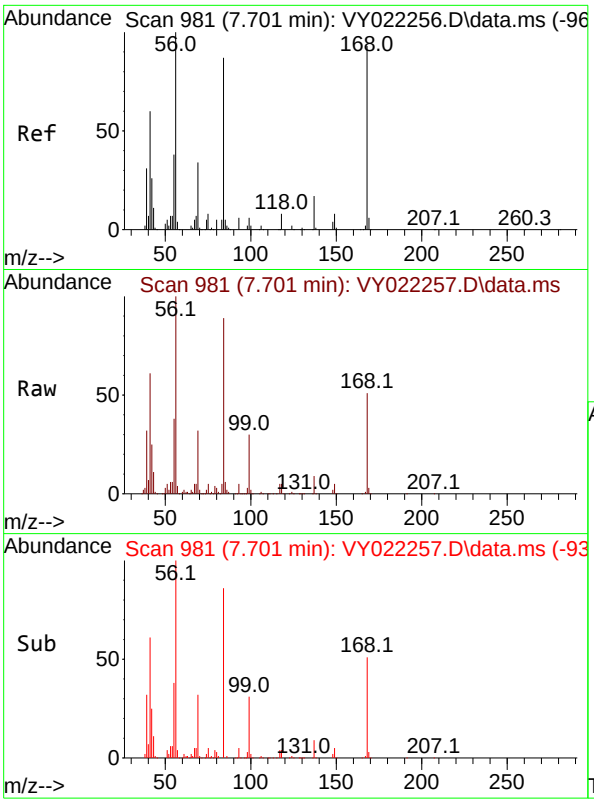



#30
Chloroform
Concen: 99.326 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 83 Resp: 565823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.5 | 51.8 | 77.8 |

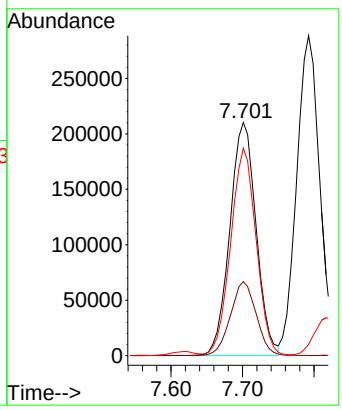





#31
Cyclohexane
Concen: 90.301 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 56 Resp: 53583

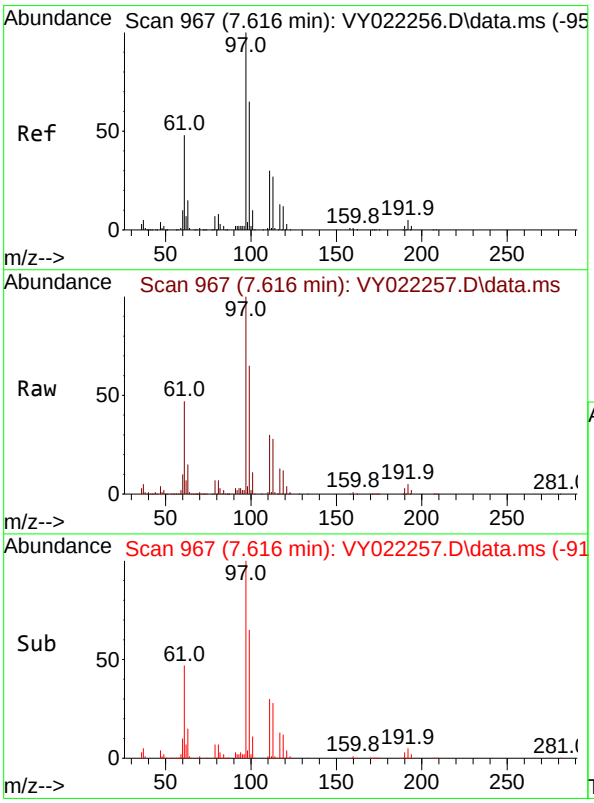
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.8 | 27.4 | 41.2 |
| 84 | 87.6 | 70.0 | 105.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

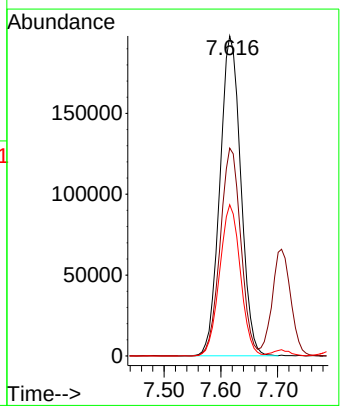
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

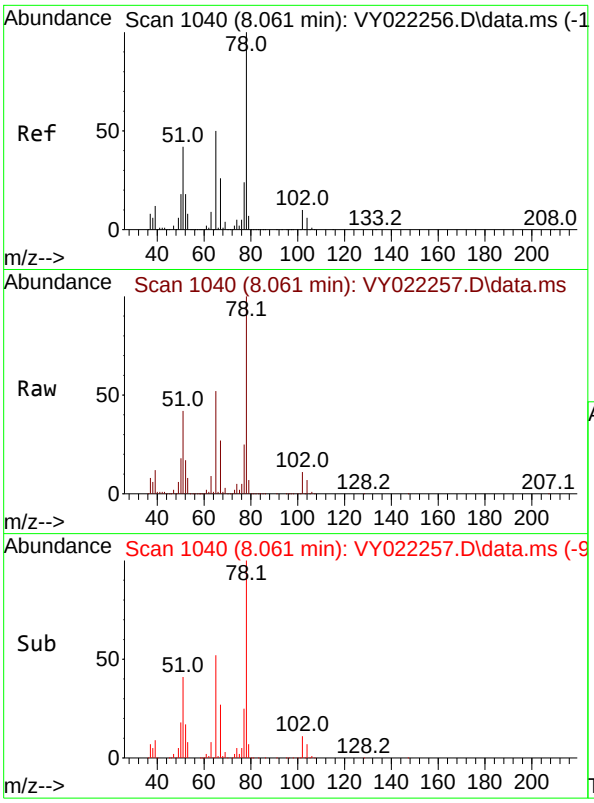



#32
1,1,1-Trichloroethane
Concen: 96.995 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 97 Resp: 506927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.4 | 51.4 | 77.0 |
| 61 | 47.1 | 38.1 | 57.1 |

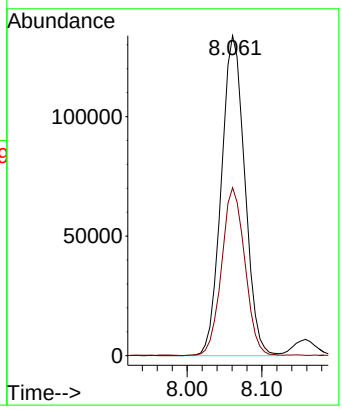





#33
1,2-Dichloroethane-d4
Concen: 99.729 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 65 Resp: 29253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.8 | 0.0 | 104.6 |




**Instrument :**
MSVOA_Y
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VSTDICC100

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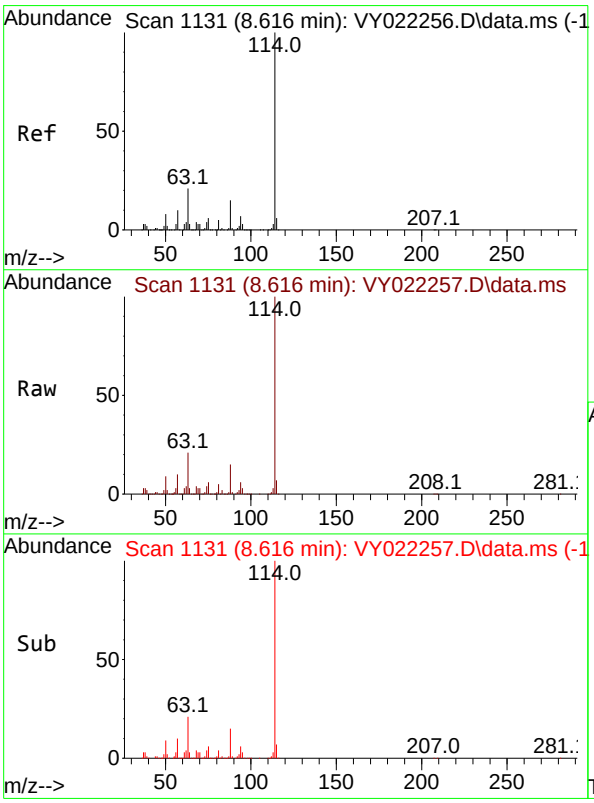
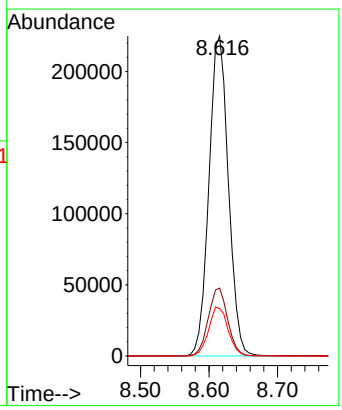
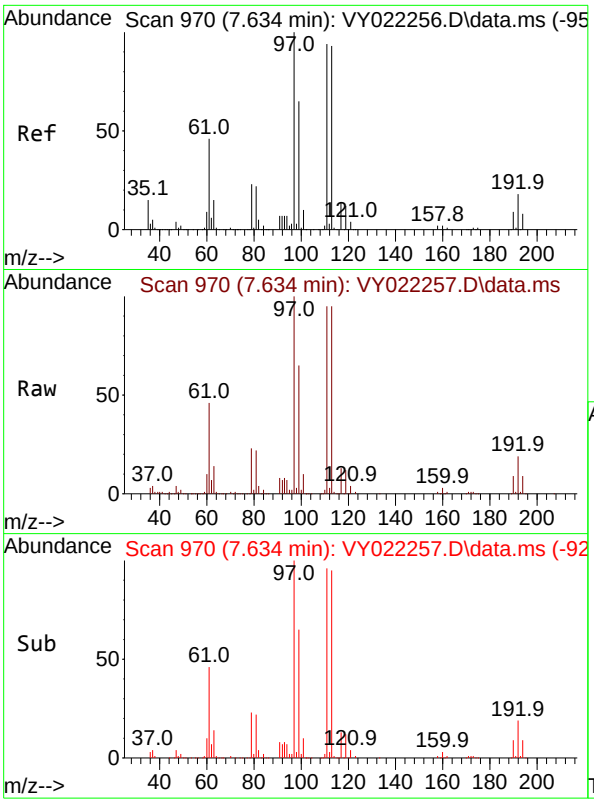



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:114 Resp: 443341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.2 | 0.0 | 41.0 |
| 88 | 14.9 | 0.0 | 29.4 |

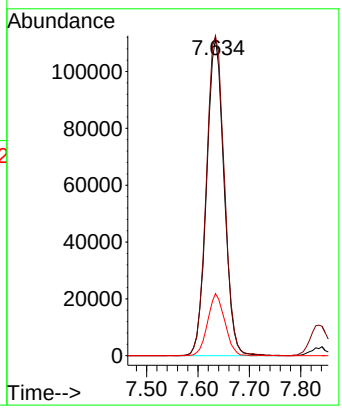





#35
Dibromofluoromethane
Concen: 99.389 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:113 Resp: 26299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.9 | 82.6 | 123.8 |
| 192 | 19.2 | 15.2 | 22.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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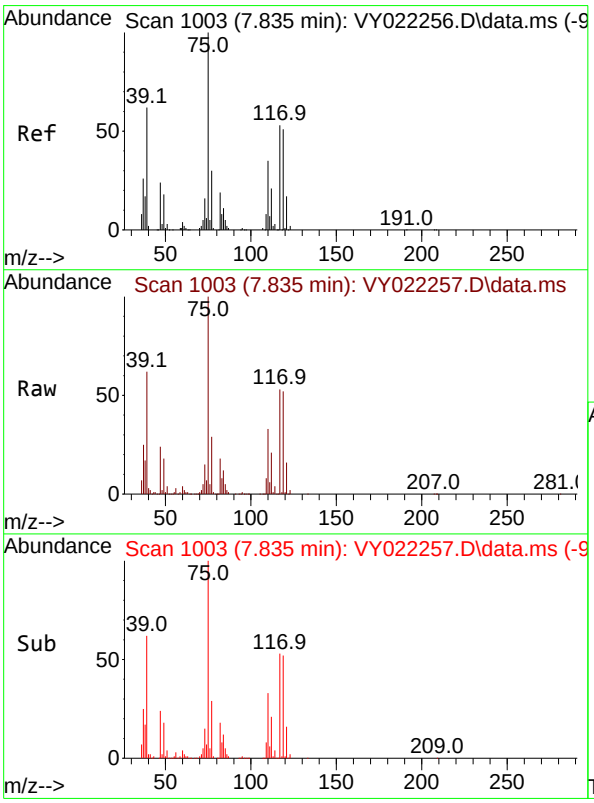
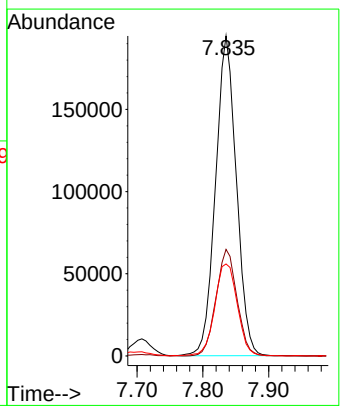
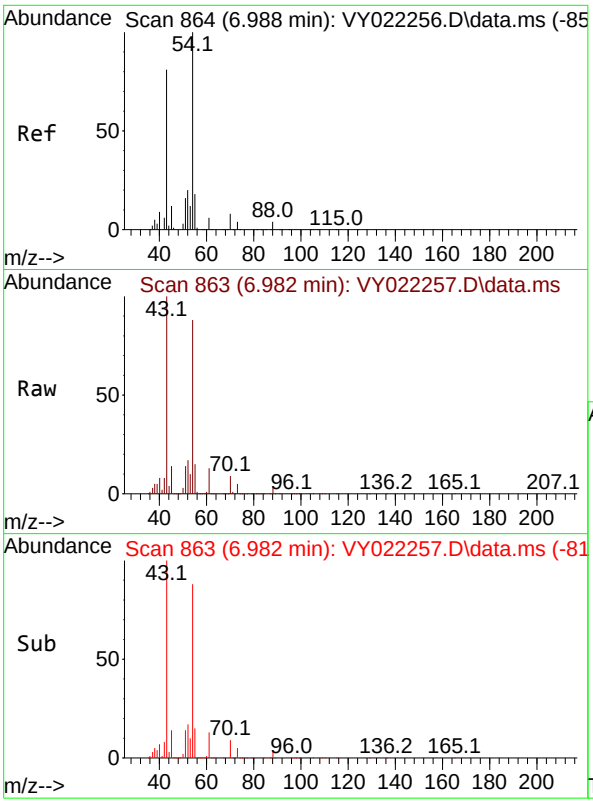



#36
1,1-Dichloropropene
Concen: 98.465 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 429153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.5 | 16.6 | 49.8 |
| 77 | 31.2 | 24.6 | 37.0 |

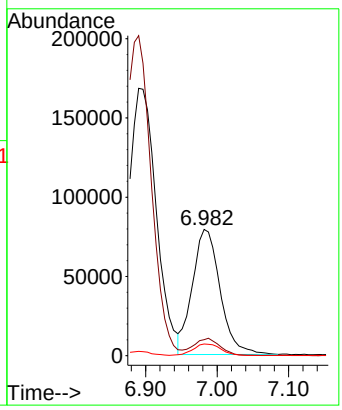





#37
Ethyl Acetate
Concen: 101.642 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 21315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.0 | 10.2 | 15.2 |
| 70 | 9.1 | 7.6 | 11.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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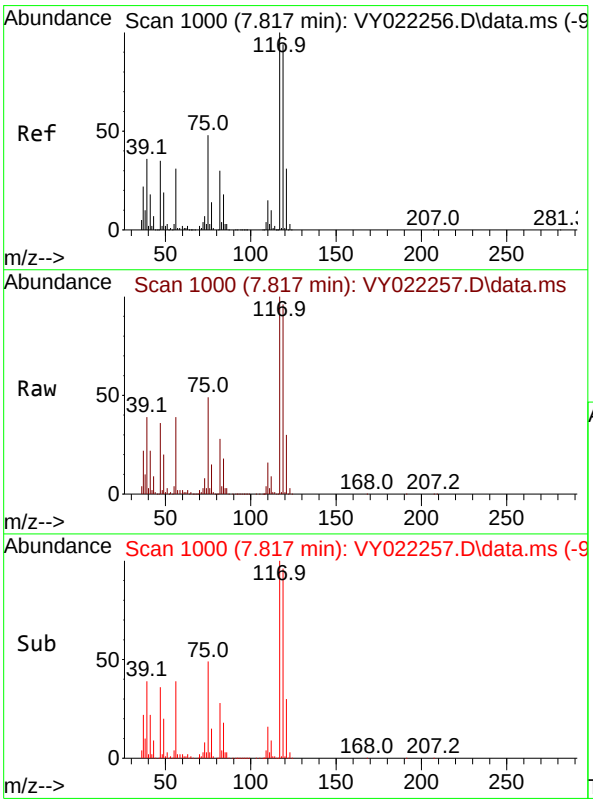
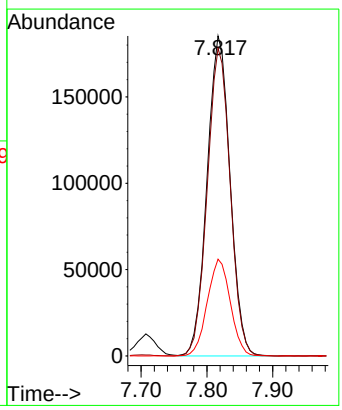
Supervised By :Semsettin Yesilyurt 05/16/2025

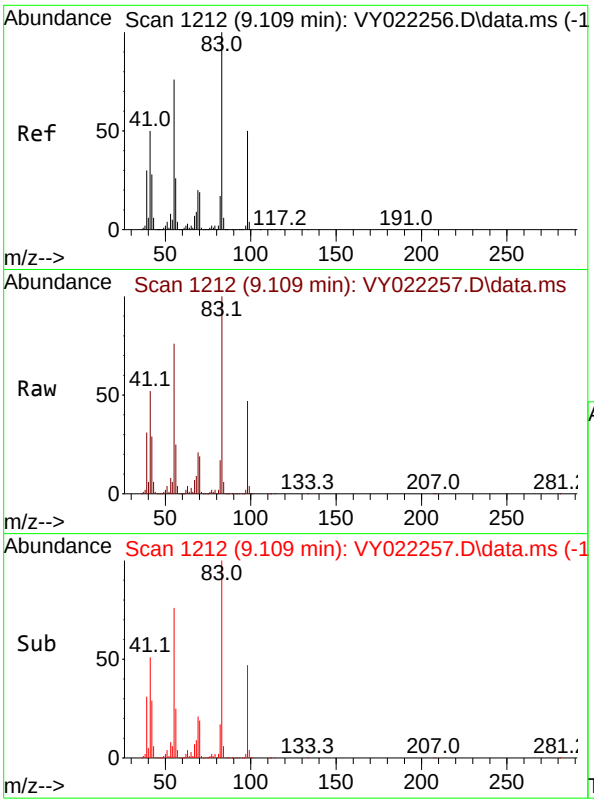



#38
Carbon Tetrachloride
Concen: 100.097 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:117 Resp: 451589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.2 | 75.3 | 112.9 |
| 121 | 30.3 | 24.7 | 37.1 |






#39
Methylcyclohexane
Concen: 96.704 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 83 Resp: 56625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 75.9 | 60.6 | 90.8 |
| 98 | 47.2 | 40.0 | 60.0 |

**Instrument :**
MSVOA_Y
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VSTDICC100

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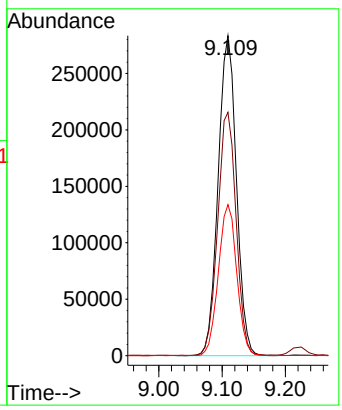
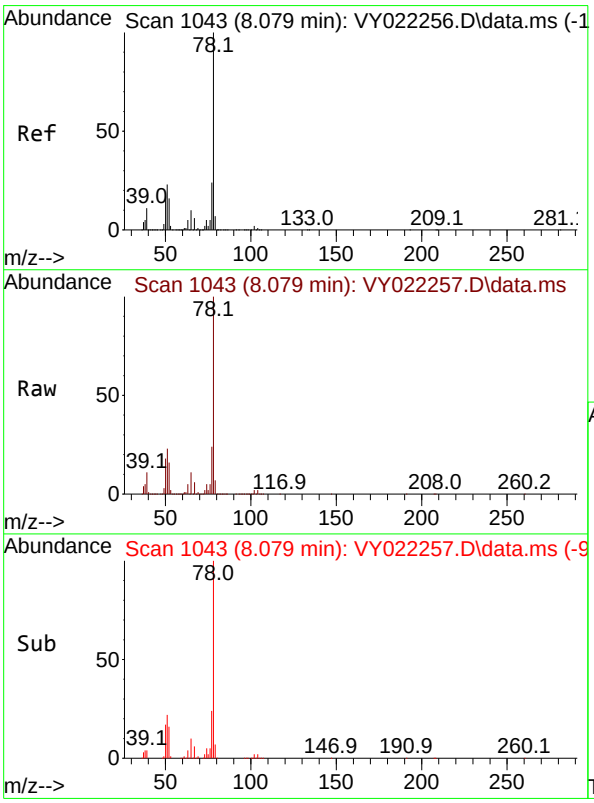
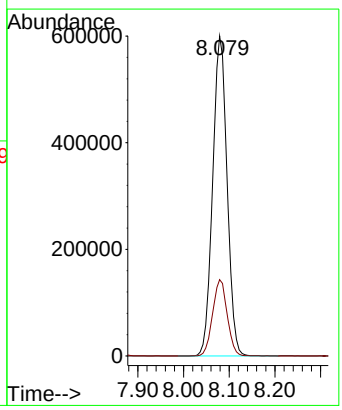


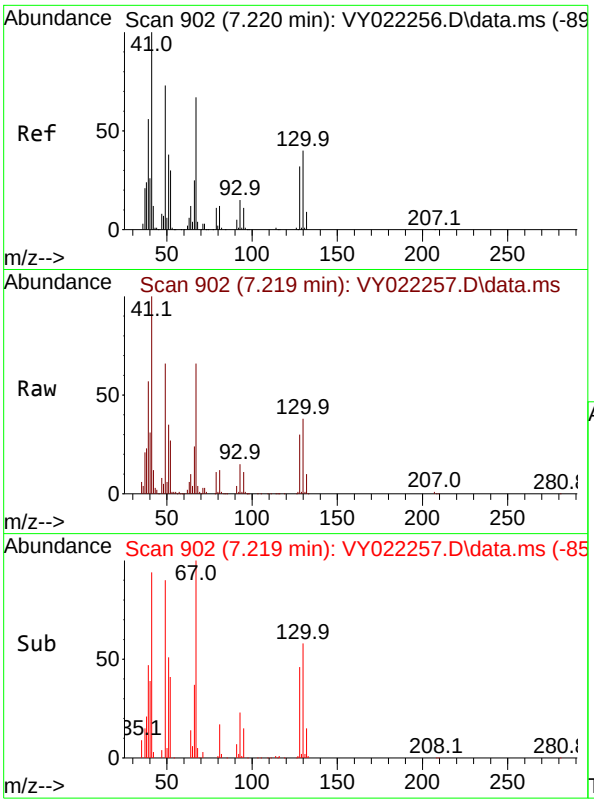




#40
Benzene
Concen: 101.677 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 78 Resp: 1313733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.8 | 18.9 | 28.3 |

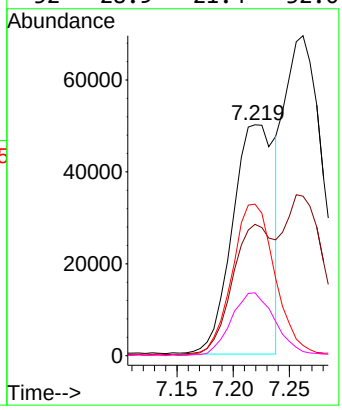





#41
Methacrylonitrile
Concen: 85.474 ug/l m
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 41 Resp: 13115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 55.7 | 39.1 | 58.7 |
| 67 | 67.2 | 47.1 | 70.7 |
| 52 | 28.9 | 21.4 | 32.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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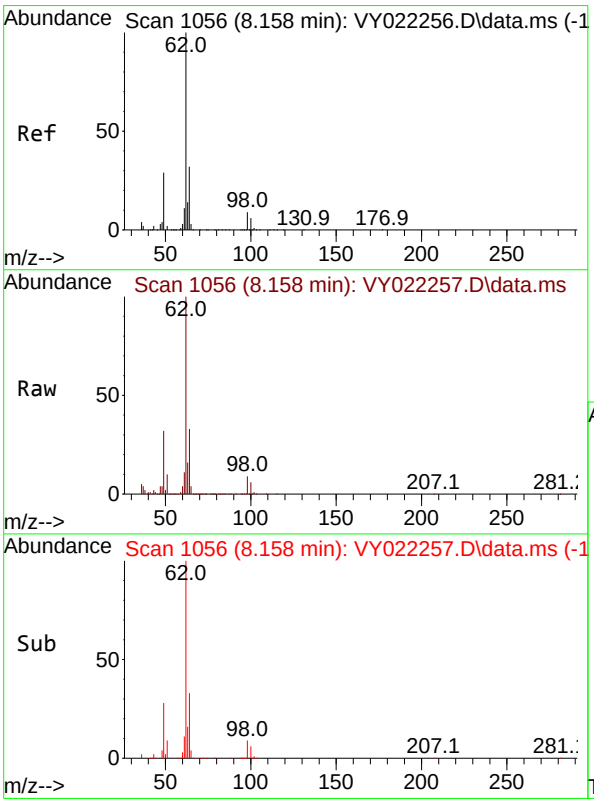
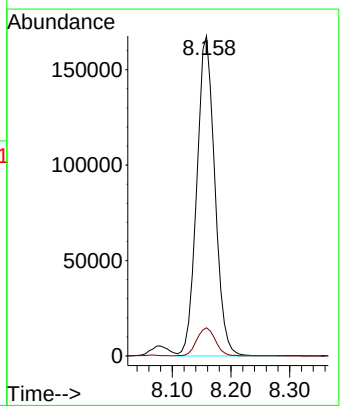
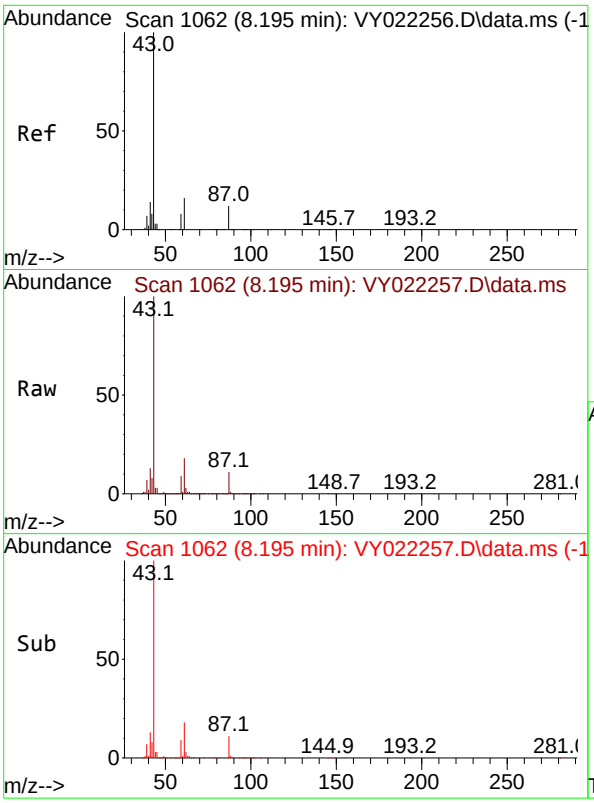



#42
1,2-Dichloroethane
Concen: 102.165 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 62 Resp: 356974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.1 | 0.0 | 18.4 |

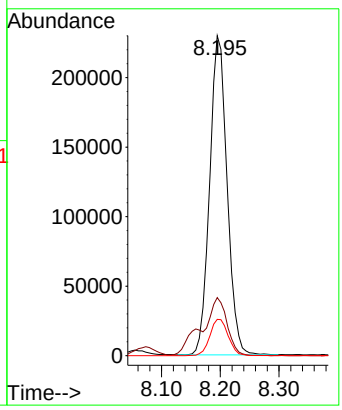





#43
Isopropyl Acetate
Concen: 103.517 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 47343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 18.5 | 15.1 | 22.7 |
| 87 | 12.0 | 9.7 | 14.5 |




**Instrument :**
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**ClientSampleId :**
VSTDICC100

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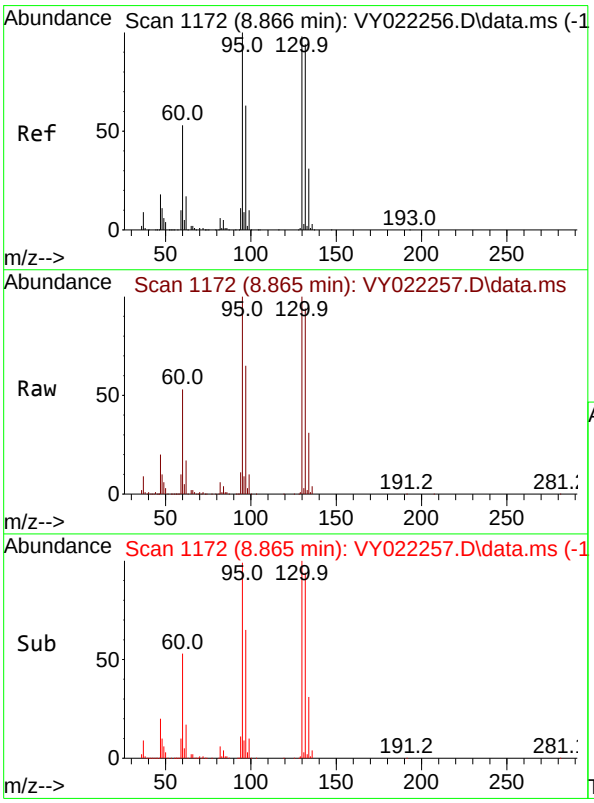
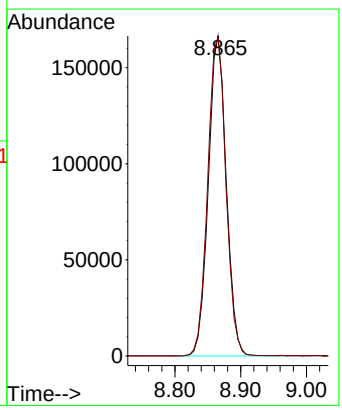
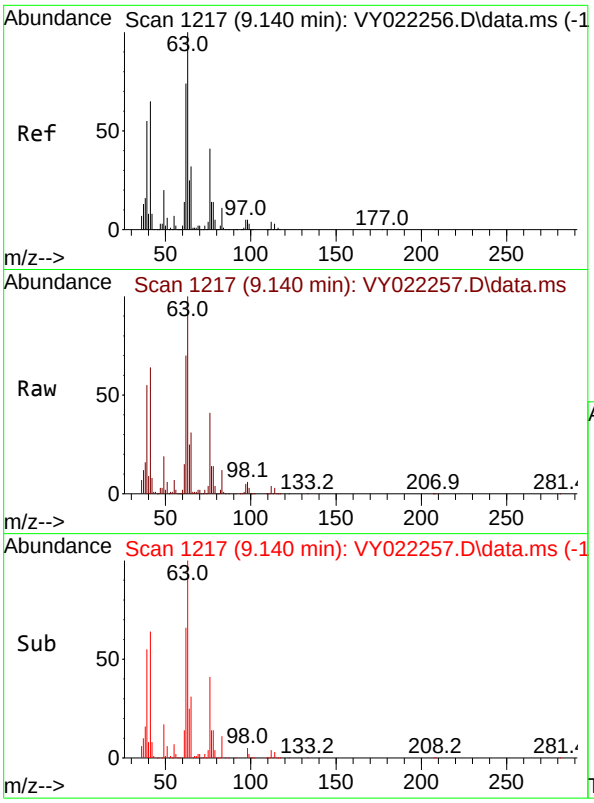



#44
Trichloroethene
Concen: 98.218 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:130 Resp: 315543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.5 | 0.0 | 204.8 |

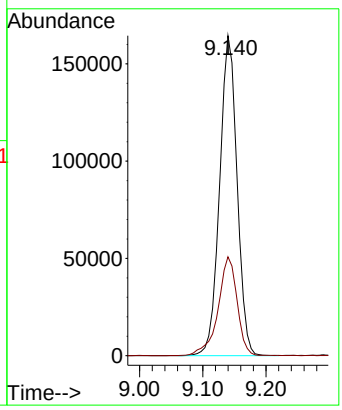





#45
1,2-Dichloropropane
Concen: 100.858 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 63 Resp: 31417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.8 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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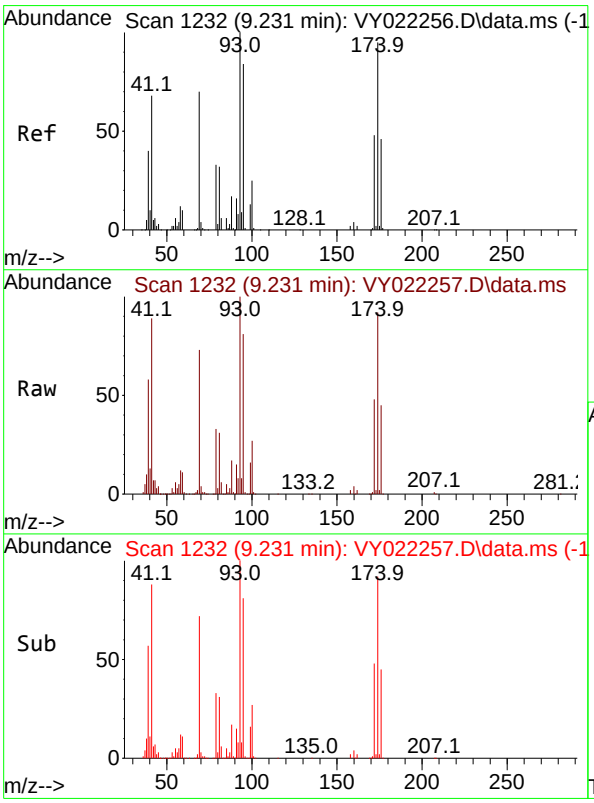
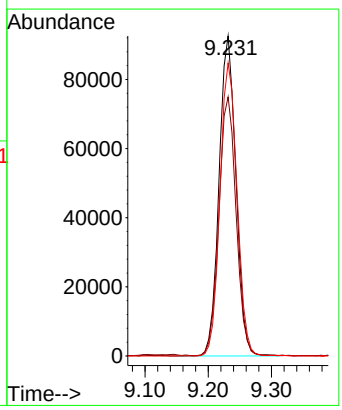
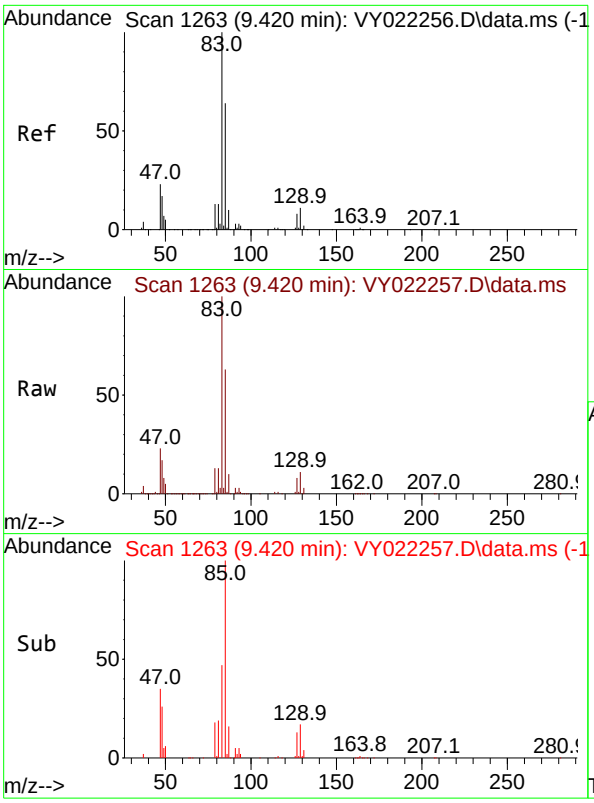



#46
Dibromomethane
Concen: 101.606 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 93 Resp: 170712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.7 | 65.2 | 97.8 |
| 174 | 92.9 | 74.3 | 111.5 |

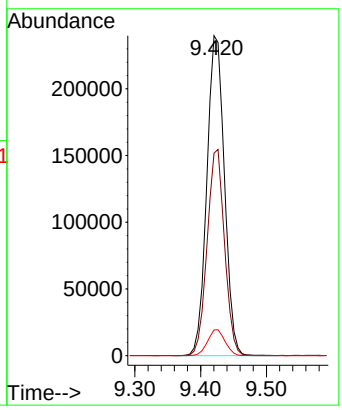





#47
Bromodichloromethane
Concen: 102.514 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 83 Resp: 44682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.2 | 51.1 | 76.7 |
| 127 | 8.0 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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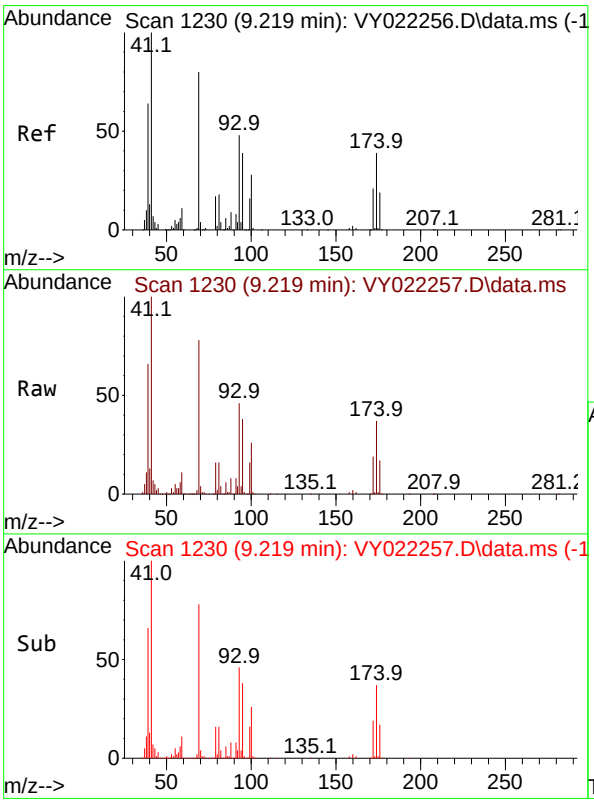
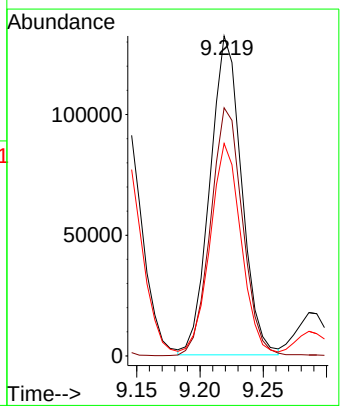
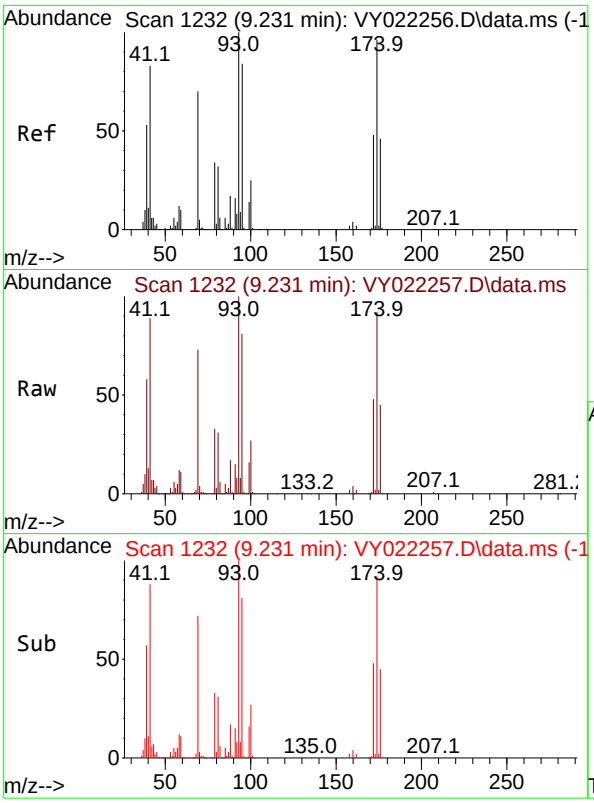



#48
Methyl methacrylate
Concen: 107.308 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 41 Resp: 229512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 78.7 | 63.5 | 95.3 |
| 39 | 63.5 | 50.8 | 76.2 |

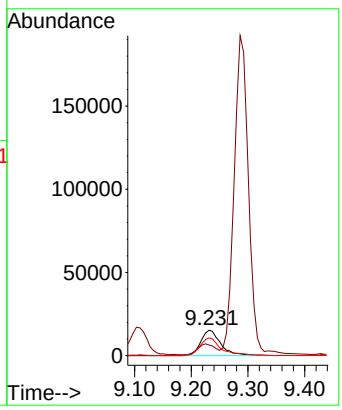





#49
1,4-Dioxane
Concen: 1990.455 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 88 Resp: 3778

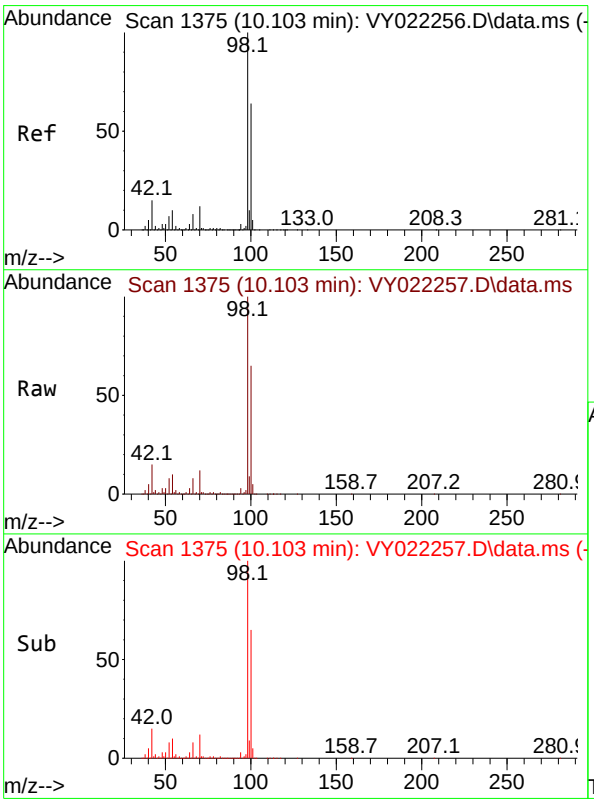
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 36.0 | 28.5 | 42.7 |
| 58 | 75.0 | 61.4 | 92.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

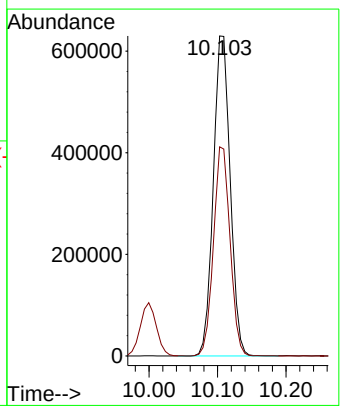
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

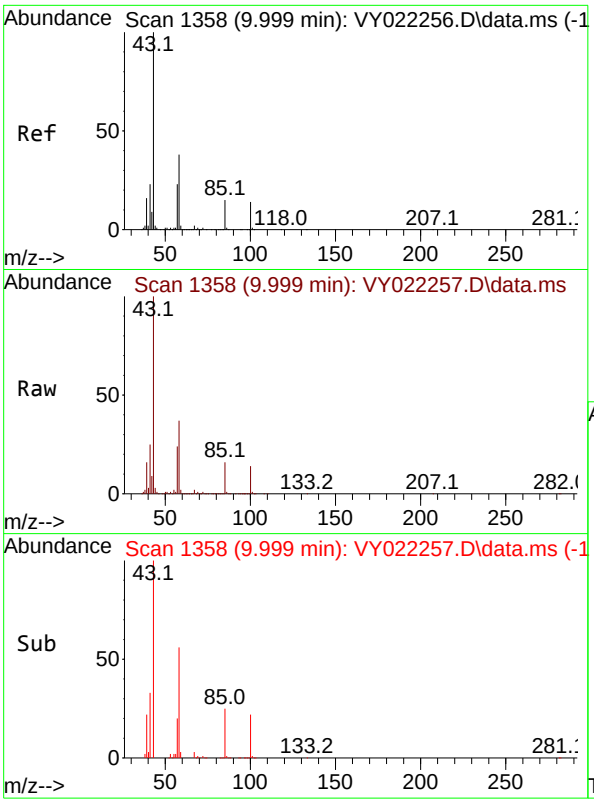



#50
Toluene-d8
Concen: 99.289 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 98 Resp: 1076035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.2 | 51.8 | 77.8 |

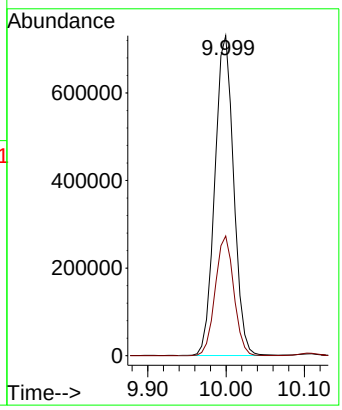





#51
4-Methyl-2-Pentanone
Concen: 543.068 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 121868

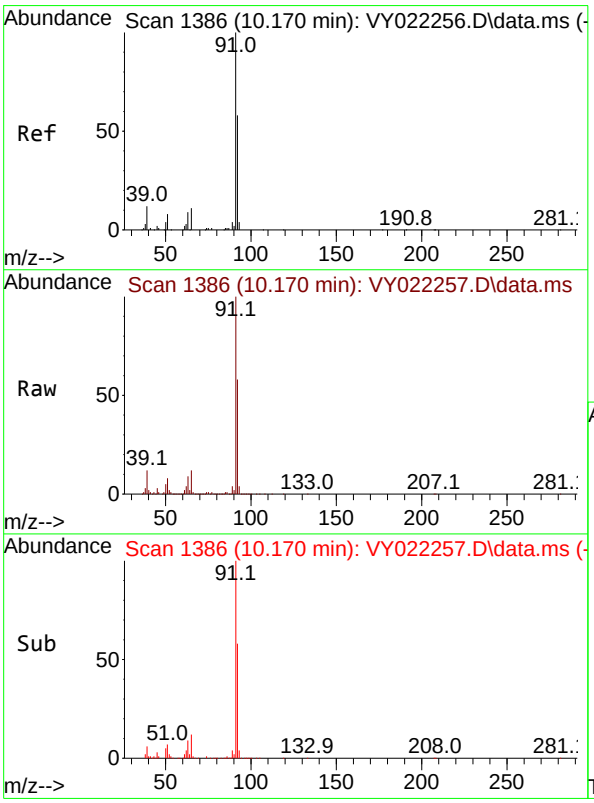
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.1 | 29.4 | 44.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

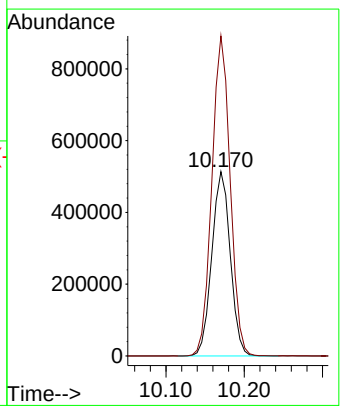
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

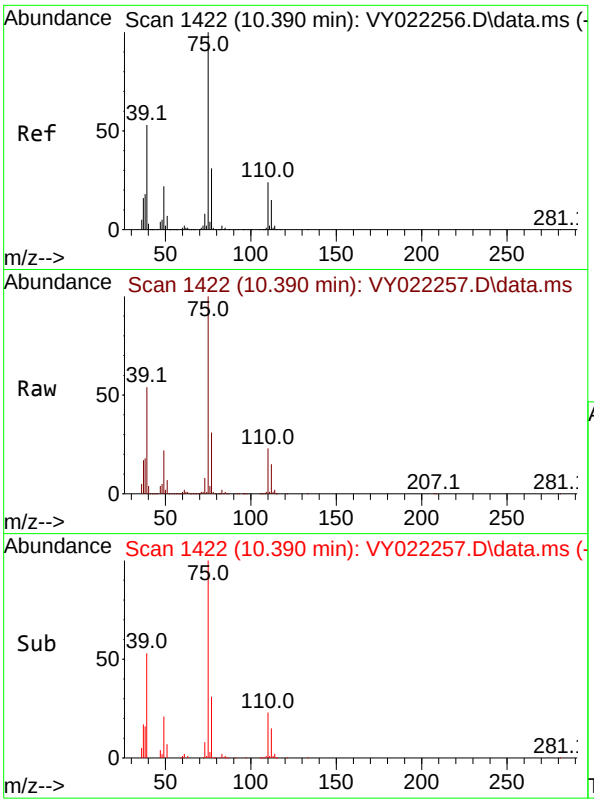



#52
Toluene
Concen: 102.593 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 92 Resp: 839400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.5 | 139.1 | 208.7 |

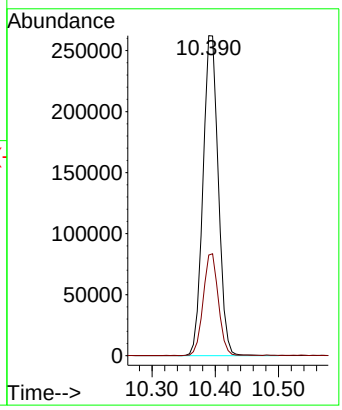





#53
t-1,3-Dichloropropene
Concen: 103.832 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 44167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
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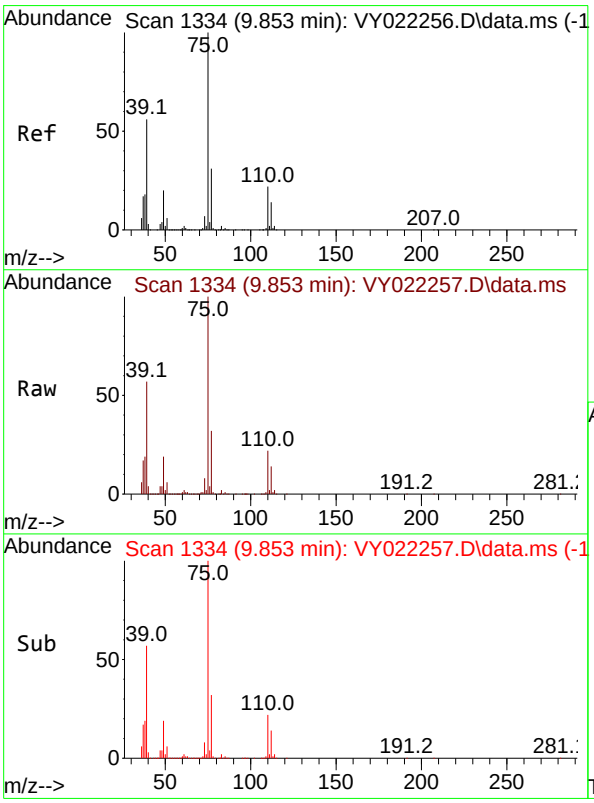
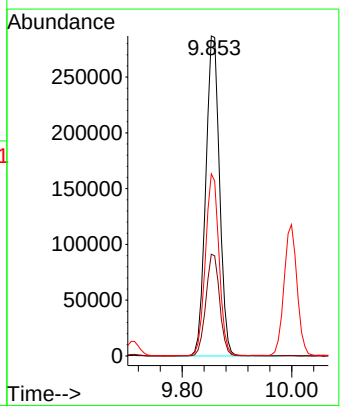
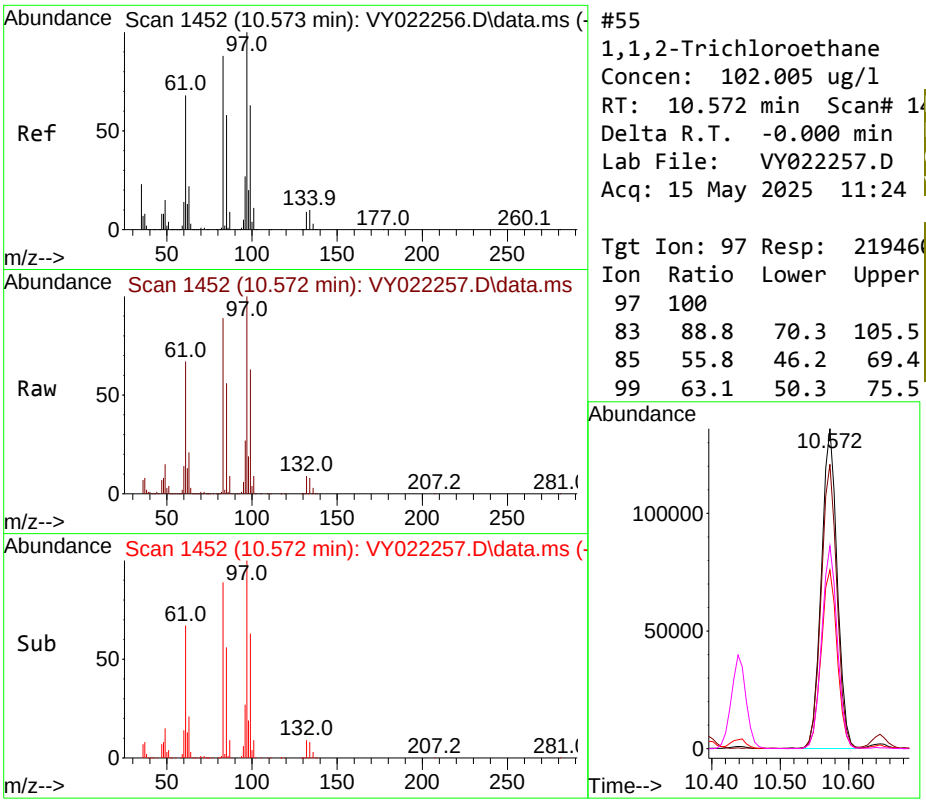



#54
cis-1,3-Dichloropropene
Concen: 102.190 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 498023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.1 | 37.7 |
| 39 | 56.8 | 44.5 | 66.7 |






#55
1,1,2-Trichloroethane
Concen: 102.005 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 97 Resp: 21946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.8 | 70.3 | 105.5 |
| 85 | 55.8 | 46.2 | 69.4 |
| 99 | 63.1 | 50.3 | 75.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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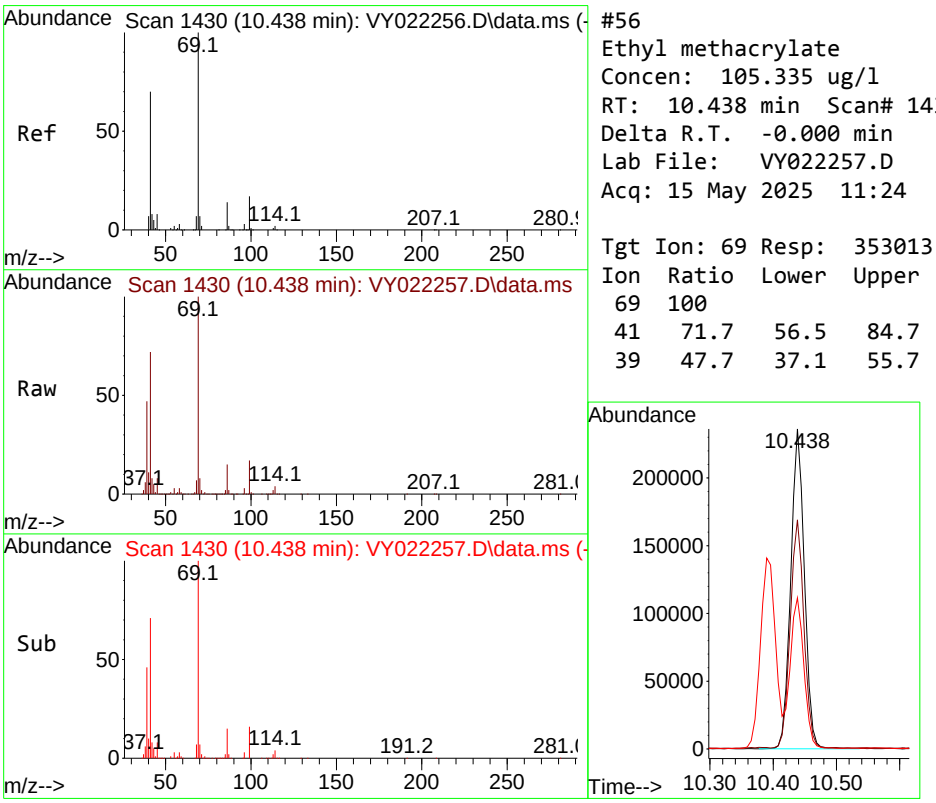
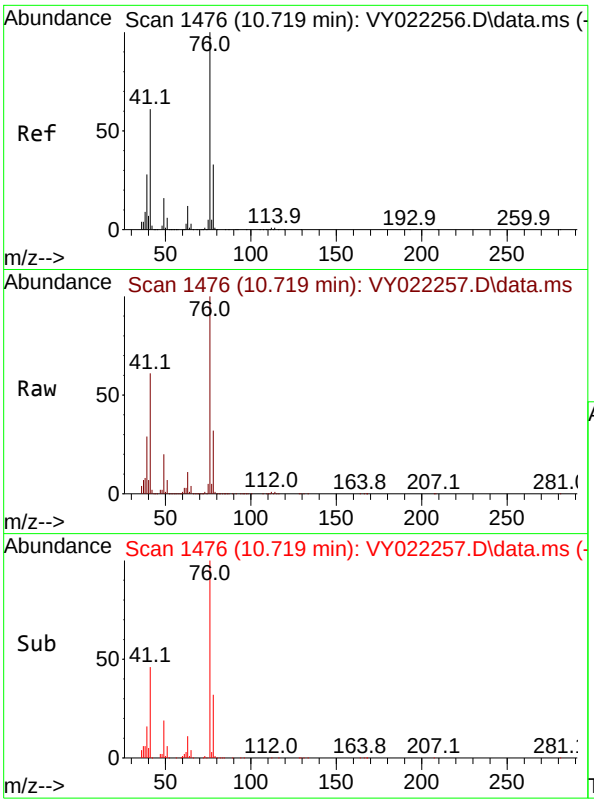
Supervised By :Semsettin Yesilyurt 05/16/2025




#56
Ethyl methacrylate
Concen: 105.335 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 69 Resp: 353013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 71.7 | 56.5 | 84.7 |
| 39 | 47.7 | 37.1 | 55.7 |




#57
1,3-Dichloropropane
Concen: 102.420 ug/l
RT: 10.719 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

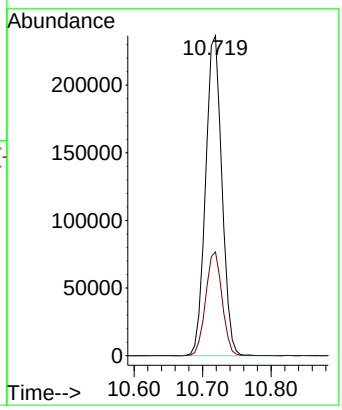
Tgt Ion: 76 Resp: 39151

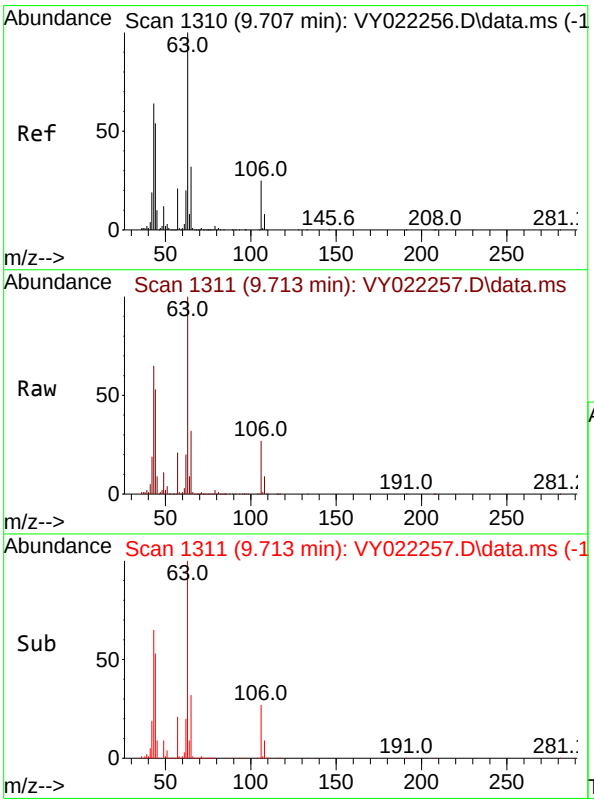
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

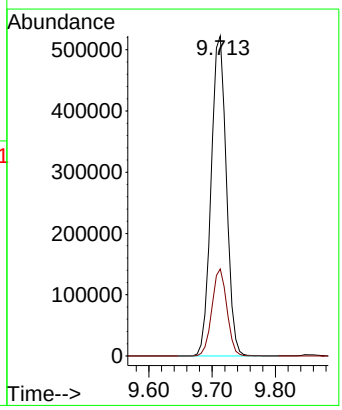


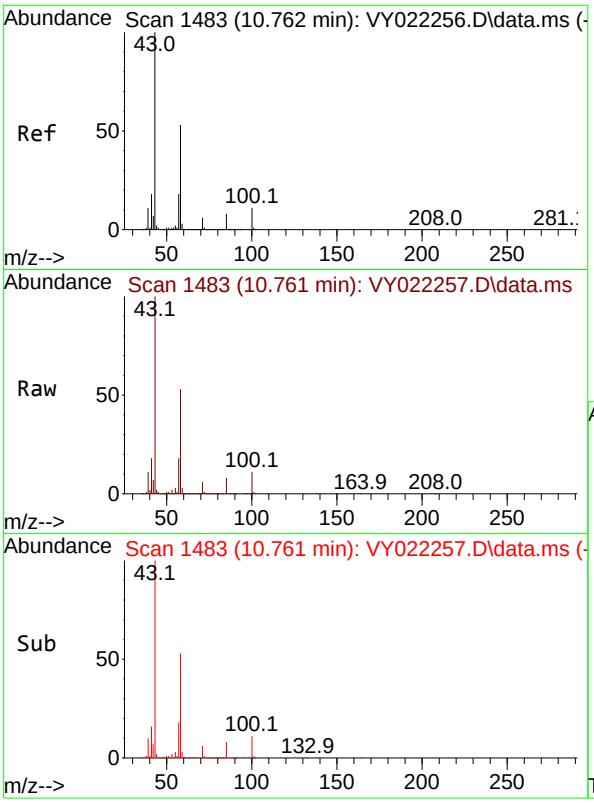




#58
2-Chloroethyl Vinyl ether
Concen: 580.295 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 63 Resp: 872907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.7 | 21.0 | 31.4 |

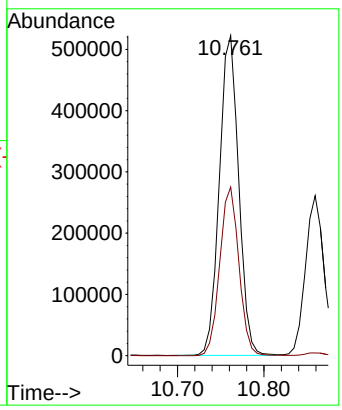





#59
2-Hexanone
Concen: 537.872 ug/l
RT: 10.761 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 80928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 52.2 | 26.1 | 78.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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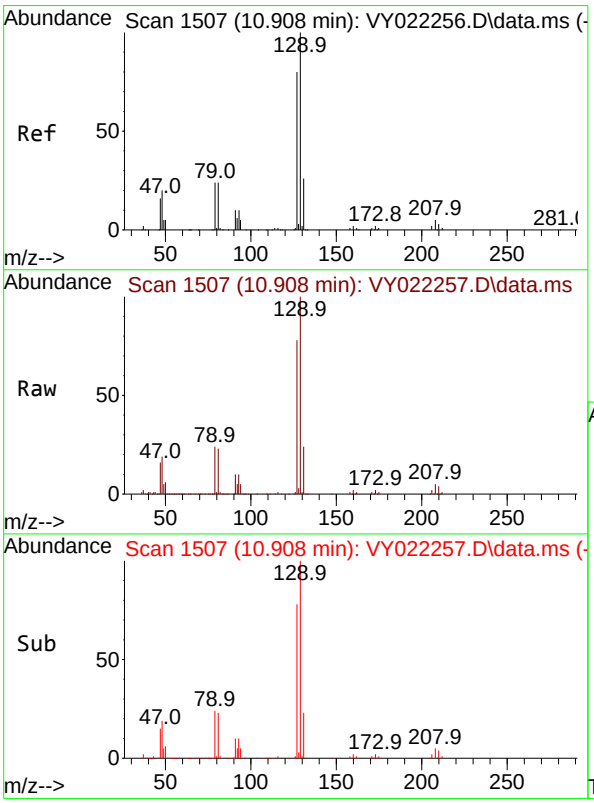
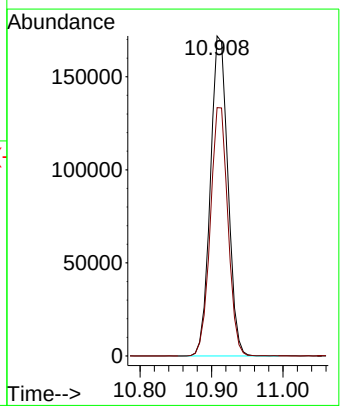
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

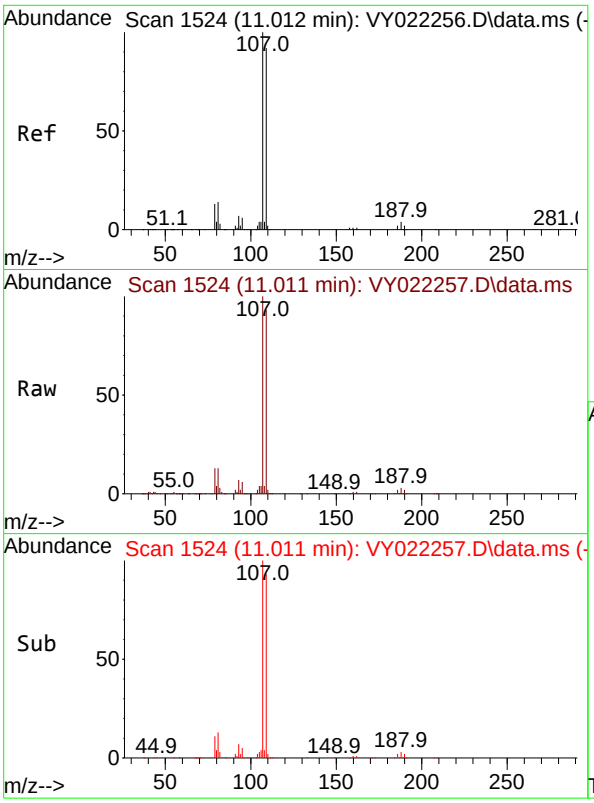



#60
Dibromochloromethane
Concen: 104.616 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:129 Resp: 292143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.9 | 38.6 | 115.7 |

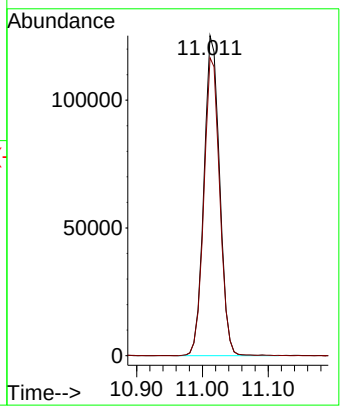





#61
1,2-Dibromoethane
Concen: 103.362 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:107 Resp: 20726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.0 | 74.6 | 111.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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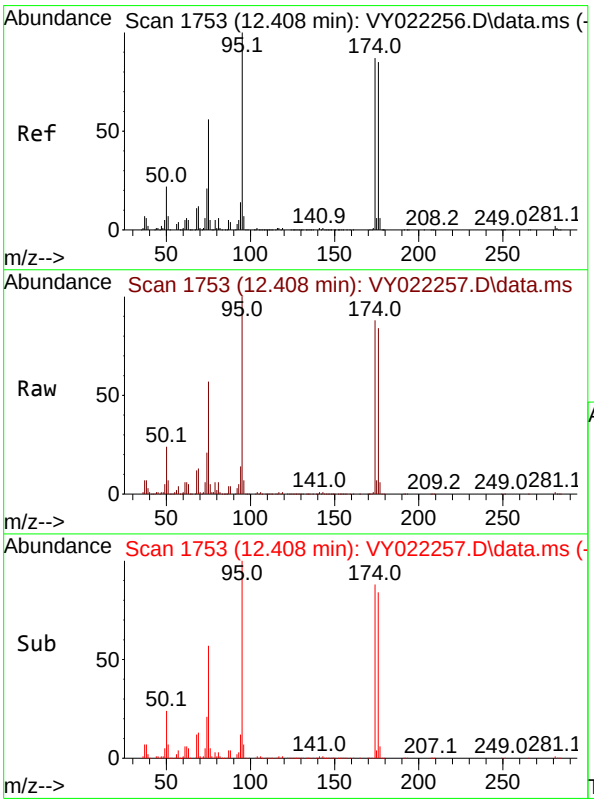
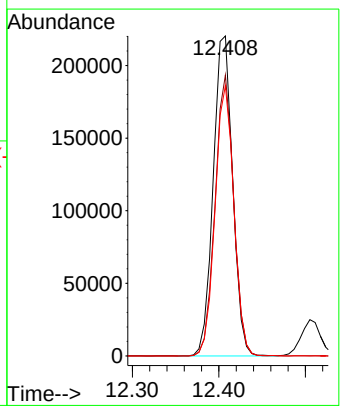
Supervised By :Semsettin Yesilyurt 05/16/2025

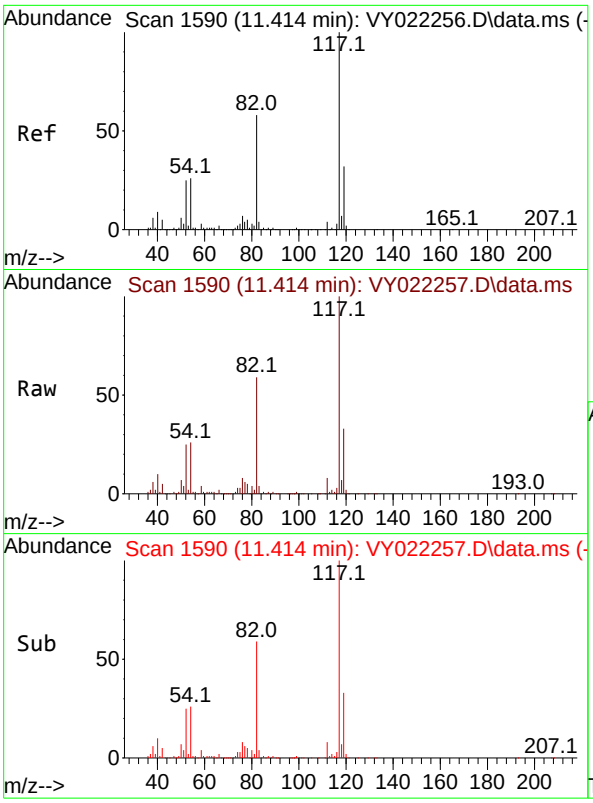



#62
4-Bromofluorobenzene
Concen: 99.968 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 95 Resp: 343397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.2 | 0.0 | 166.8 |
| 176 | 81.7 | 0.0 | 160.8 |

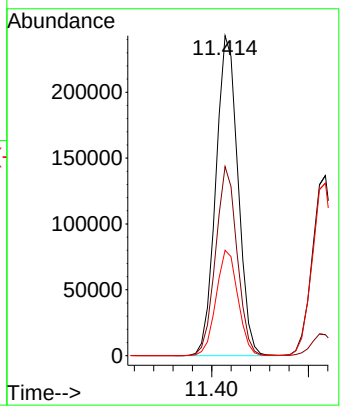





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:117 Resp: 38534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.1 | 46.6 | 70.0 |
| 119 | 33.0 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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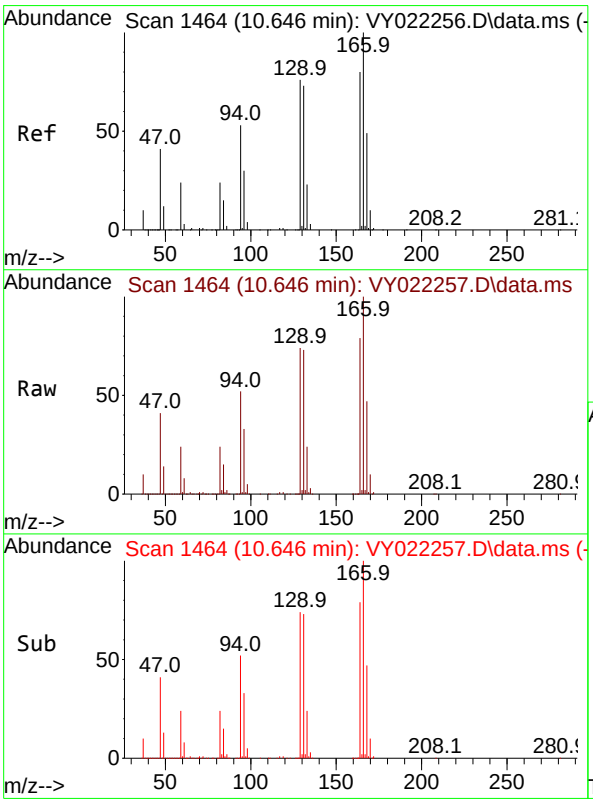
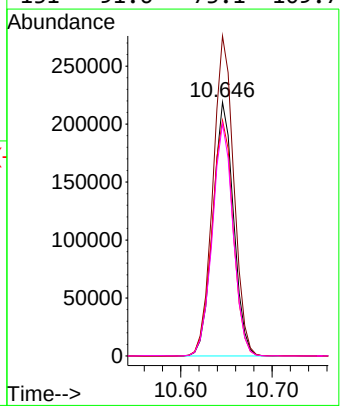
Supervised By :Semsettin Yesilyurt 05/16/2025

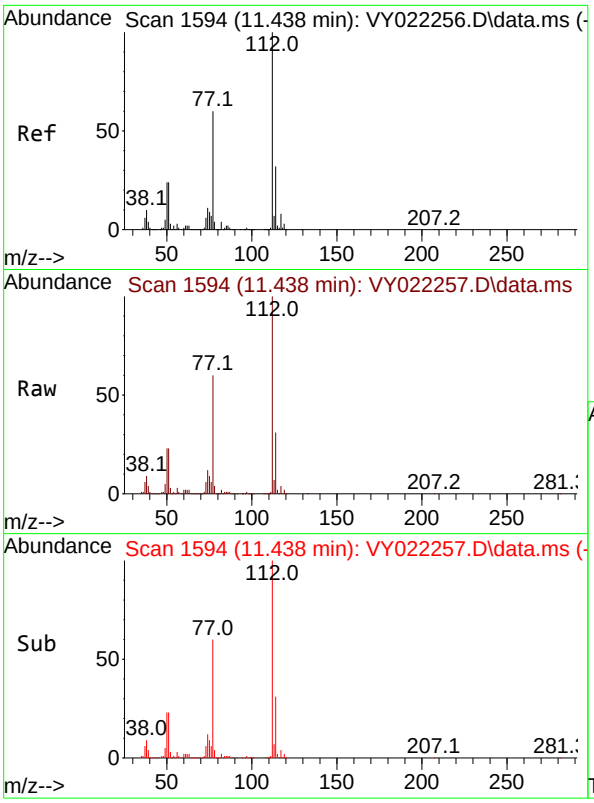



#64
Tetrachloroethene
Concen: 96.489 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:164 Resp: 343677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.1 | 100.4 | 150.6 |
| 129 | 92.9 | 76.4 | 114.6 |
| 131 | 91.6 | 73.1 | 109.7 |

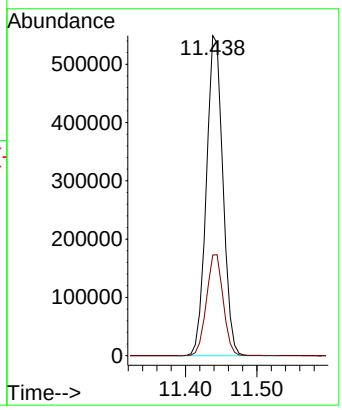





#65
Chlorobenzene
Concen: 101.346 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:112 Resp: 88108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.4 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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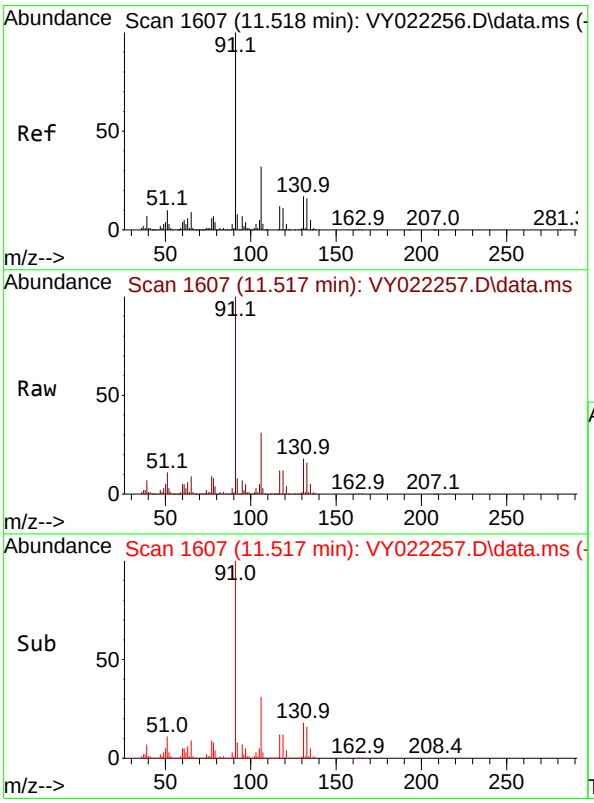
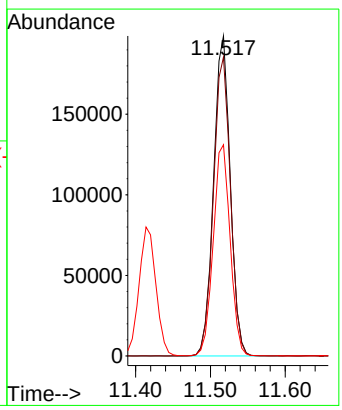
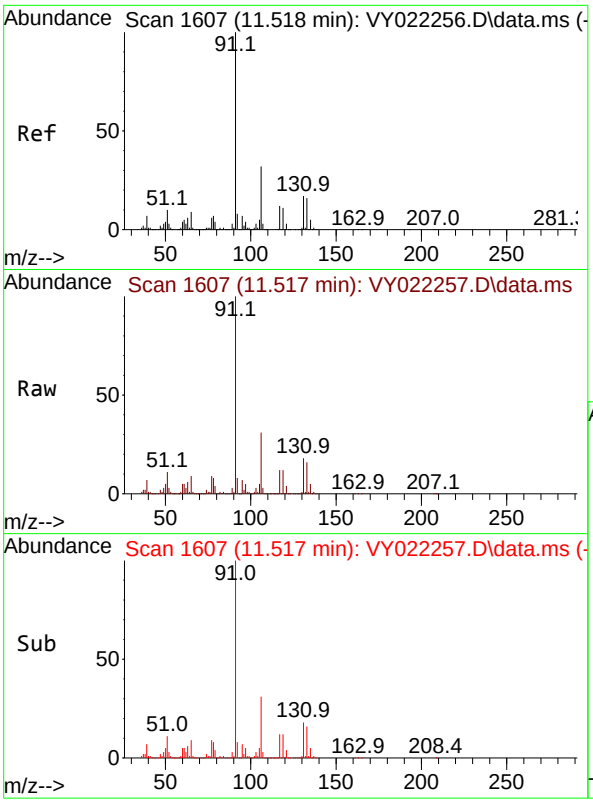



#66
1,1,1,2-Tetrachloroethane
Concen: 103.007 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:131 Resp: 307866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.1 | 47.3 | 141.9 |
| 119 | 67.2 | 33.1 | 99.2 |

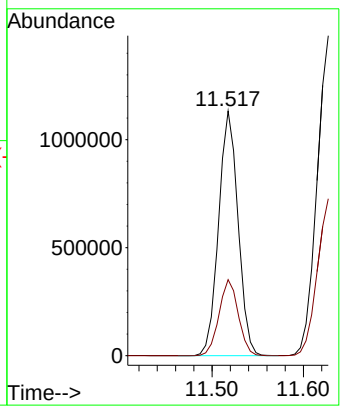





#67
Ethyl Benzene
Concen: 102.836 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 91 Resp: 167435

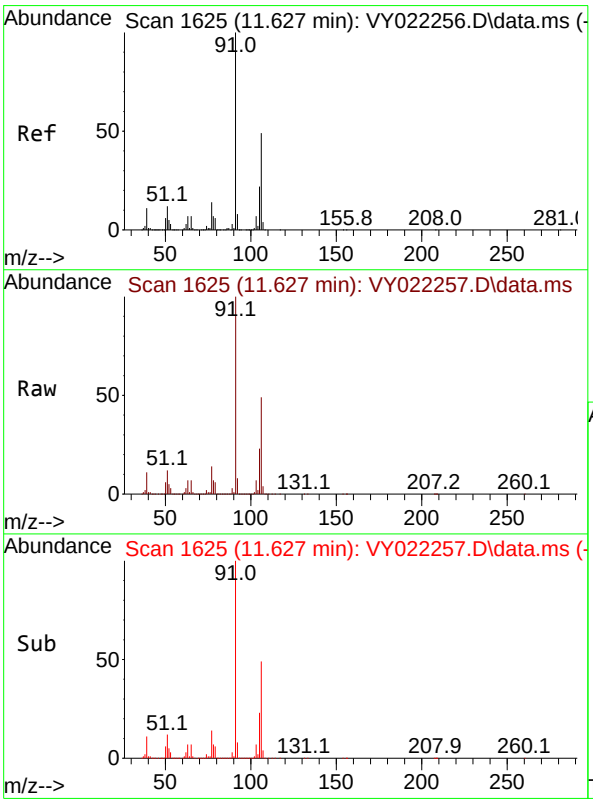
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.1 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

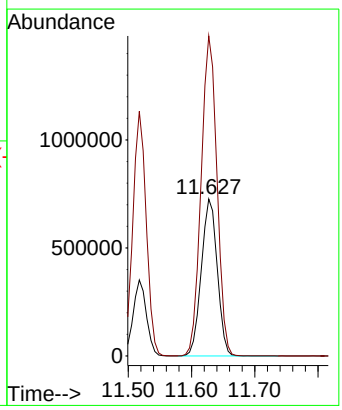
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

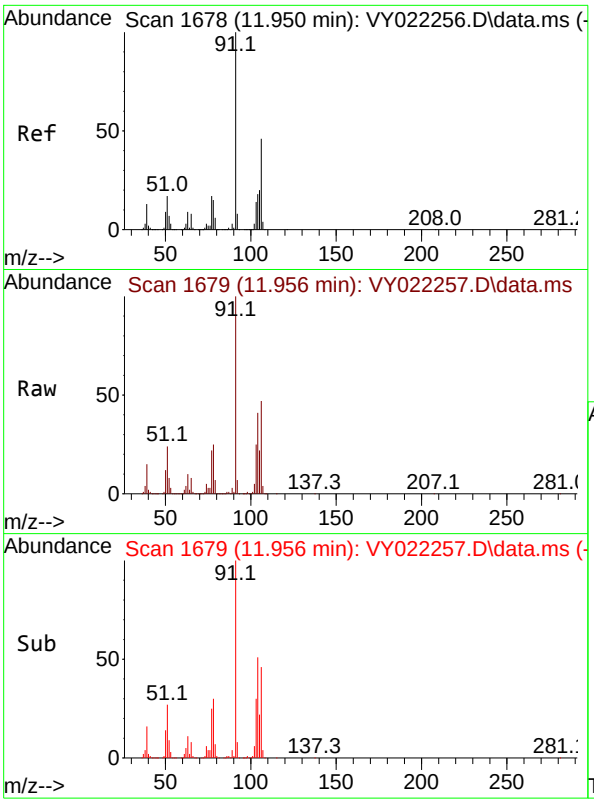



#68
m/p-Xylenes
Concen: 207.213 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:106 Resp: 1271299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 203.2 | 163.0 | 244.4 |

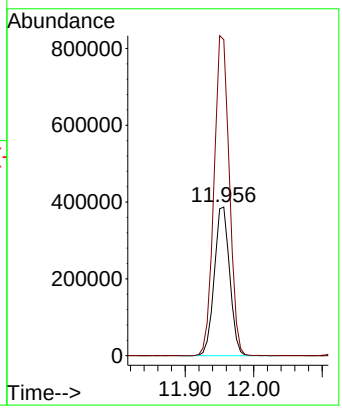





#69
o-Xylene
Concen: 103.777 ug/l
RT: 11.956 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:106 Resp: 60239(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 214.7 | 108.3 | 324.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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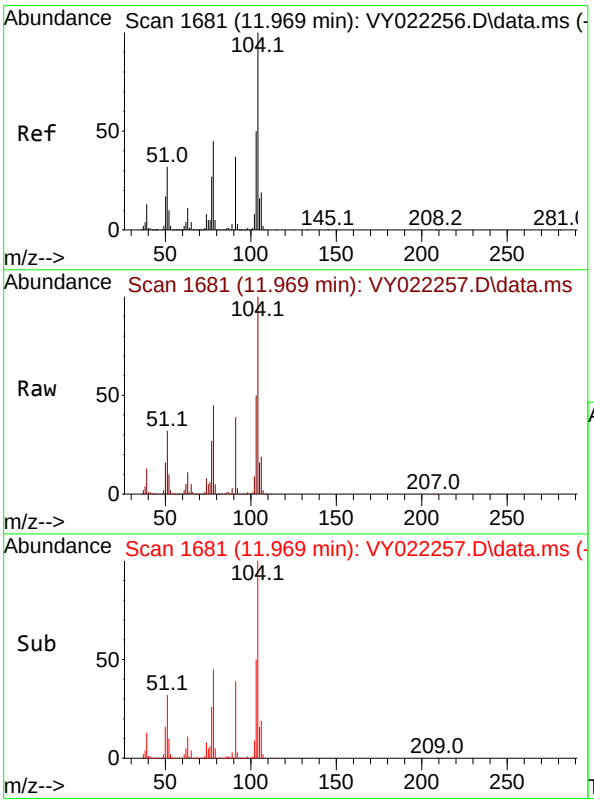
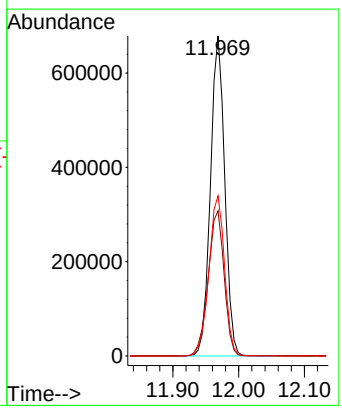
Supervised By :Semsettin Yesilyurt 05/16/2025

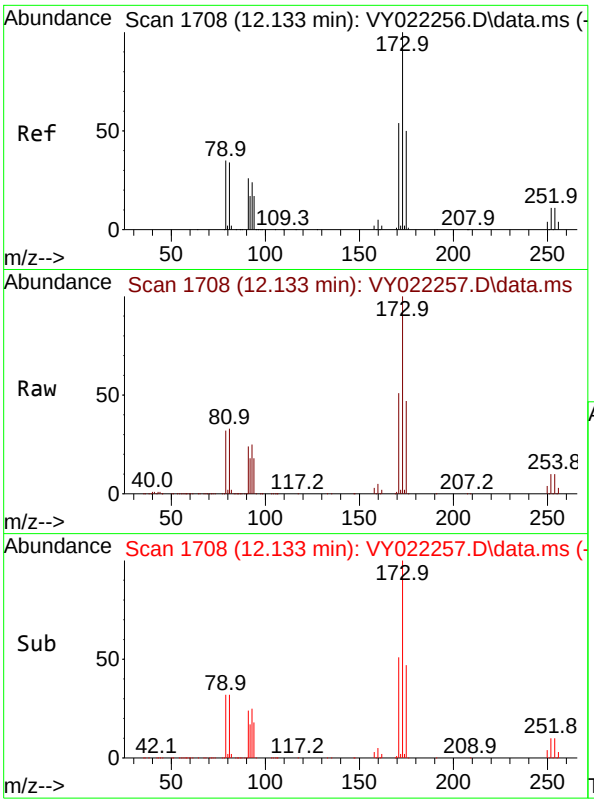



#70
Styrene
Concen: 105.038 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:104 Resp: 1028498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.6 | 40.9 | 61.3 |
| 103 | 54.7 | 43.7 | 65.5 |

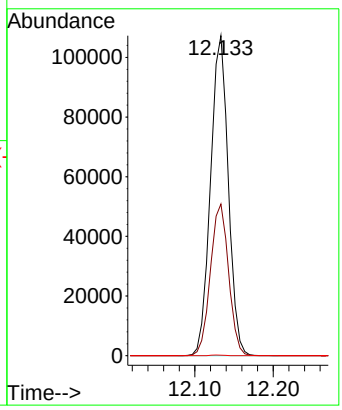





#71
Bromoform
Concen: 104.561 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:173 Resp: 16867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.6 | 24.7 | 74.1 |
| 254 | 0.1 | 0.0 | 0.0# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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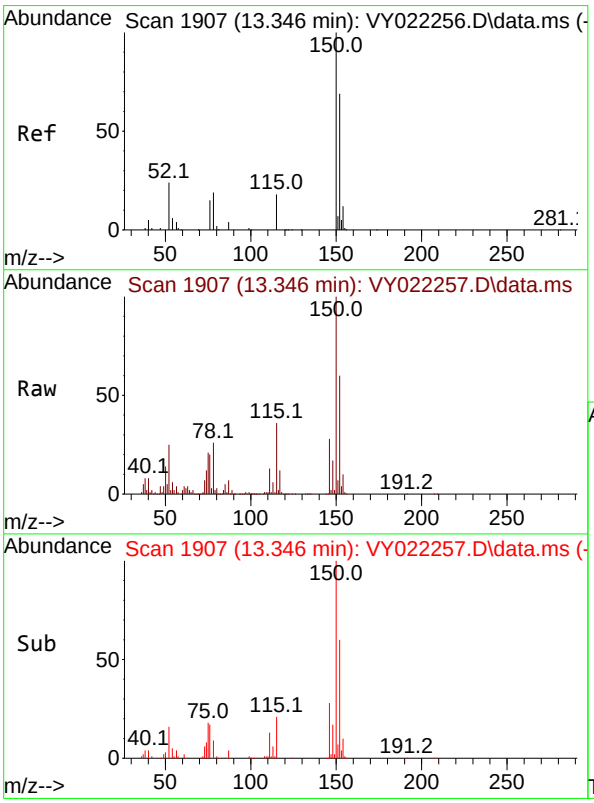
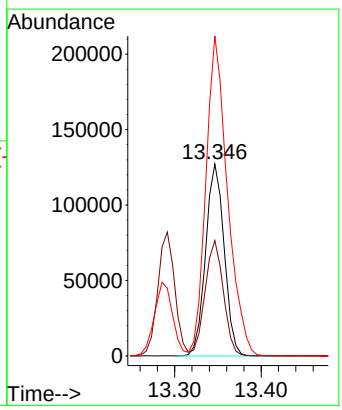
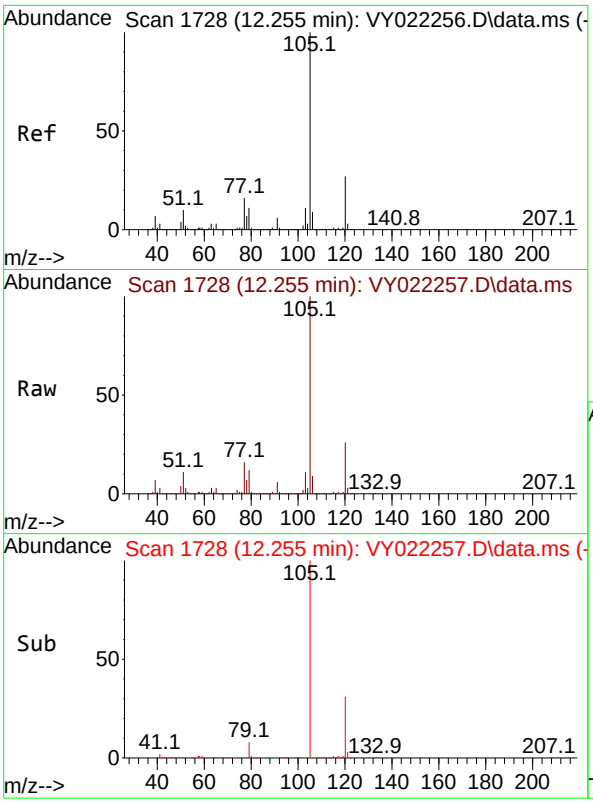



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:152 Resp: 189780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.1 | 29.4 | 88.2 |
| 150 | 193.1 | 0.0 | 353.8 |

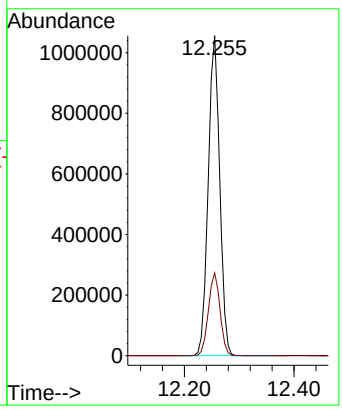





#73
Isopropylbenzene
Concen: 97.241 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:105 Resp: 152885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.2 | 39.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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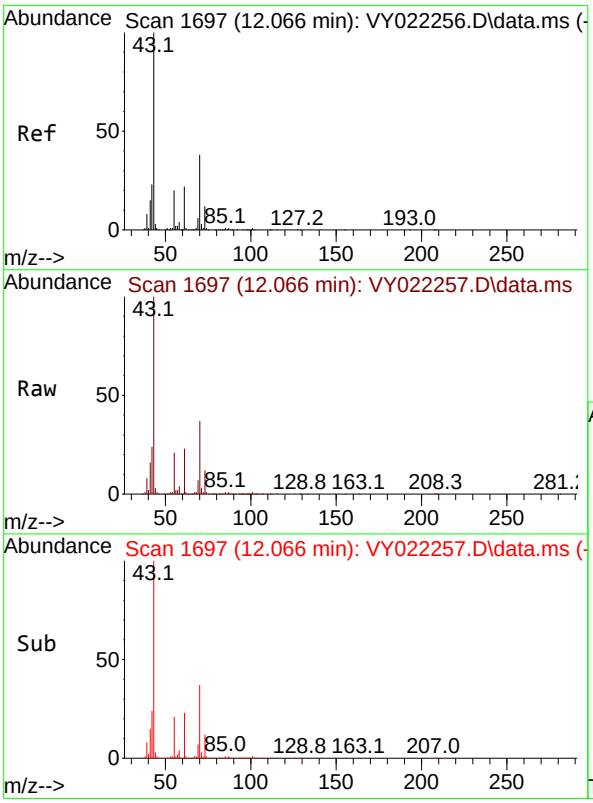
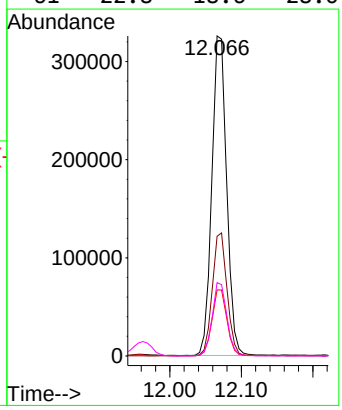
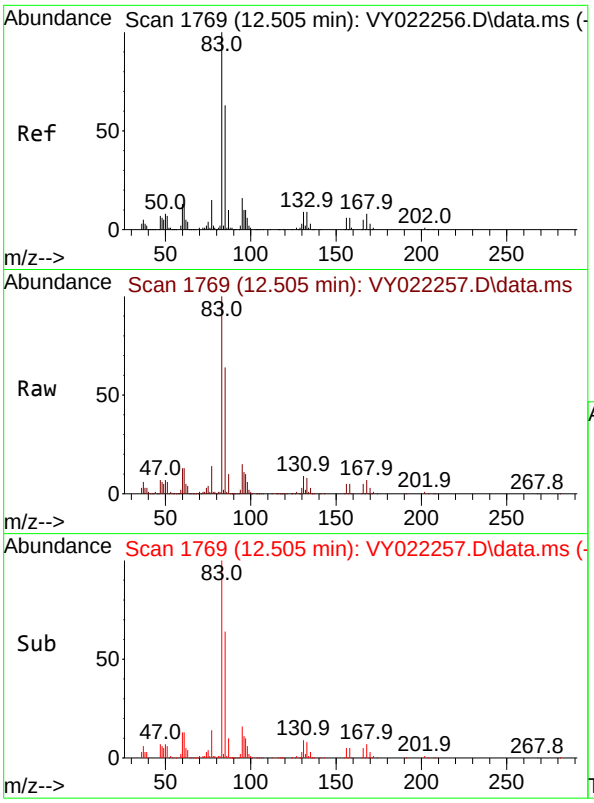



#74
N-amyl acetate
Concen: 104.235 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 468707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 38.2 | 31.4 | 47.0 |
| 55 | 20.8 | 17.0 | 25.6 |
| 61 | 22.8 | 18.6 | 28.0 |

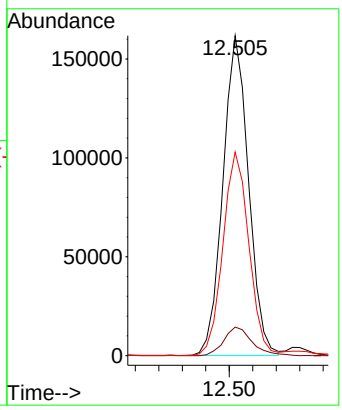





#75
1,1,2,2-Tetrachloroethane
Concen: 101.255 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 83 Resp: 24483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 4.9 | 14.7 |
| 85 | 64.4 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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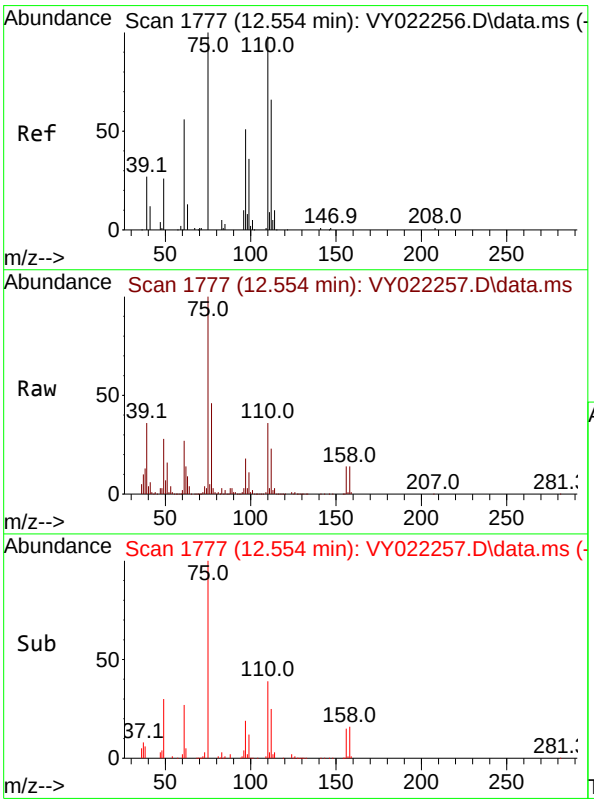
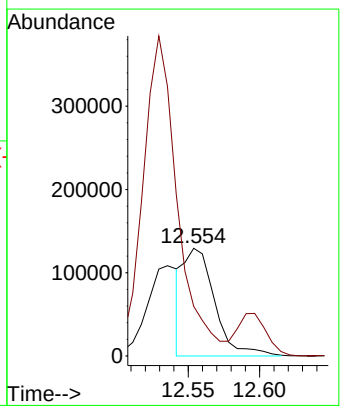
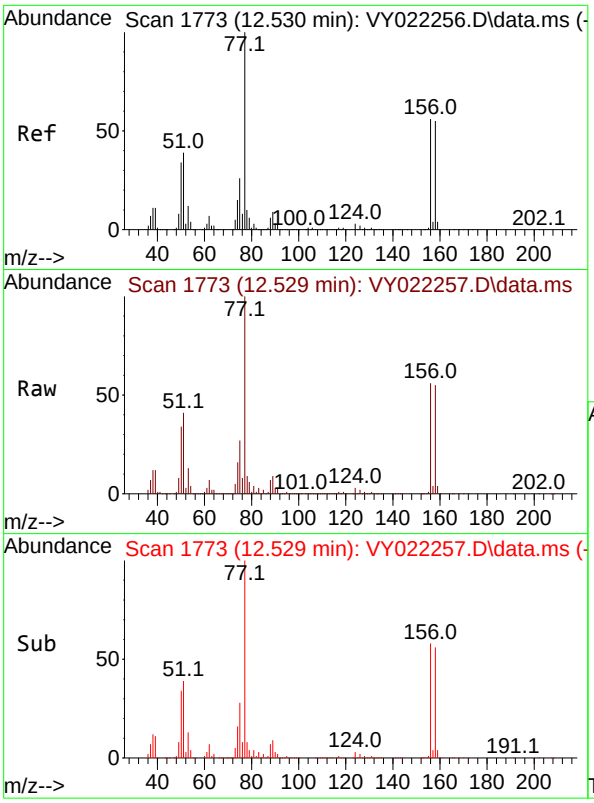



#76
1,2,3-Trichloropropane
Concen: 59.078 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 197600

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

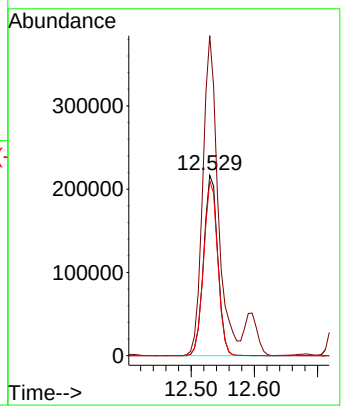





#77
Bromobenzene
Concen: 100.456 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:156 Resp: 33732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 190.3 | 94.5 | 283.6 |
| 158 | 96.8 | 48.4 | 145.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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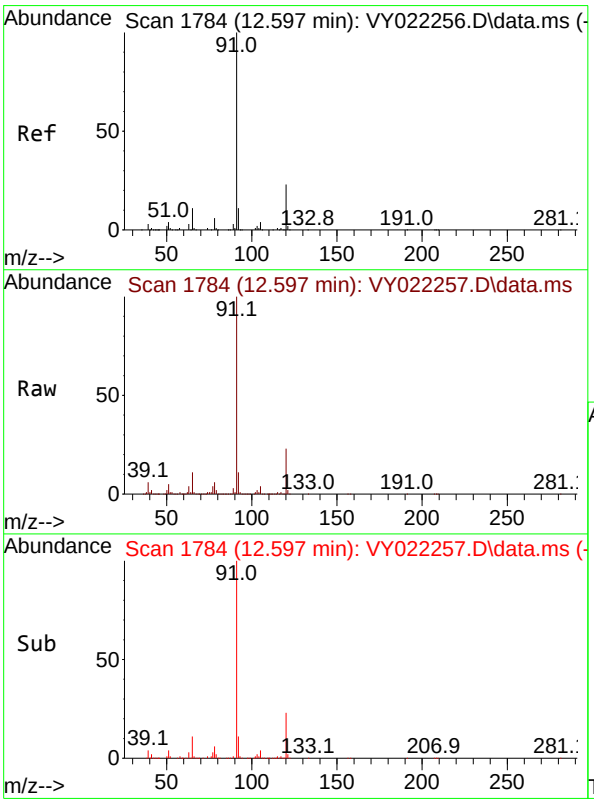
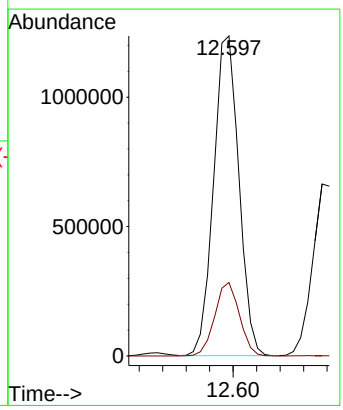
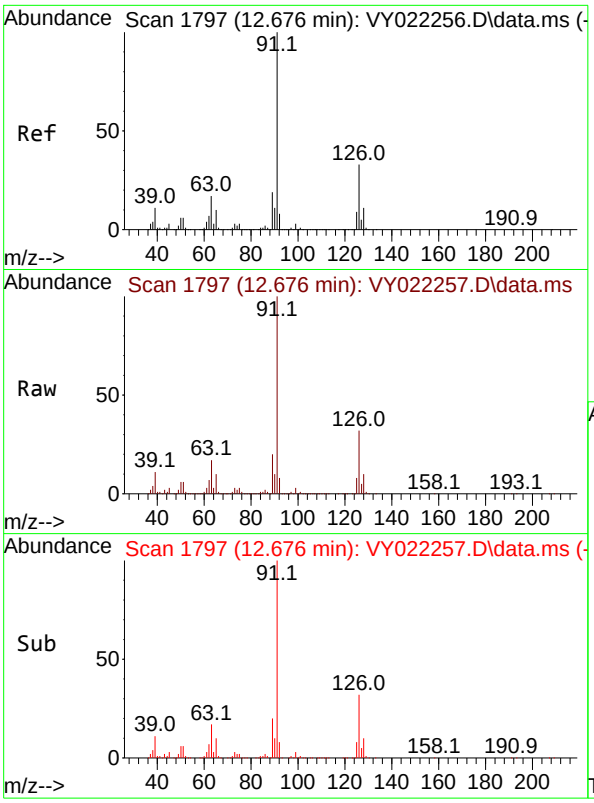



#78
n-propylbenzene
Concen: 97.365 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 91 Resp: 1846449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.4 | 11.1 | 33.3 |

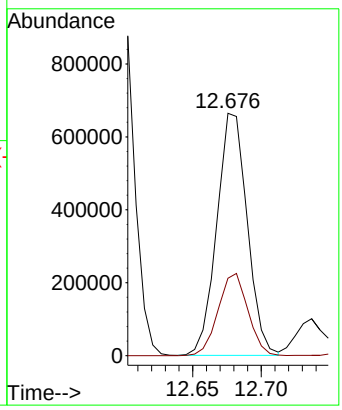





#79
2-Chlorotoluene
Concen: 98.488 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 91 Resp: 102640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.3 | 16.8 | 50.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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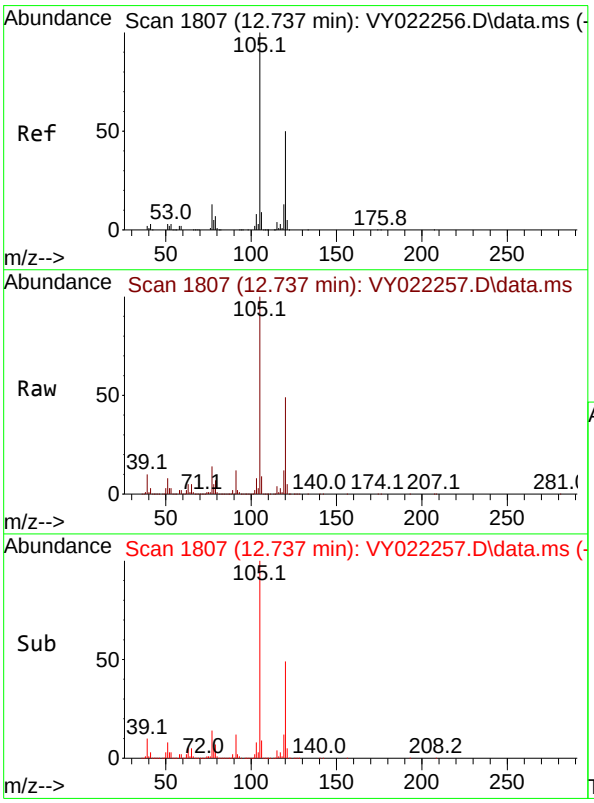
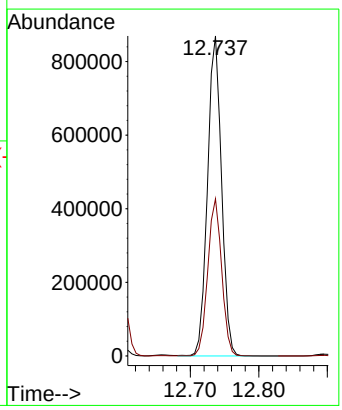
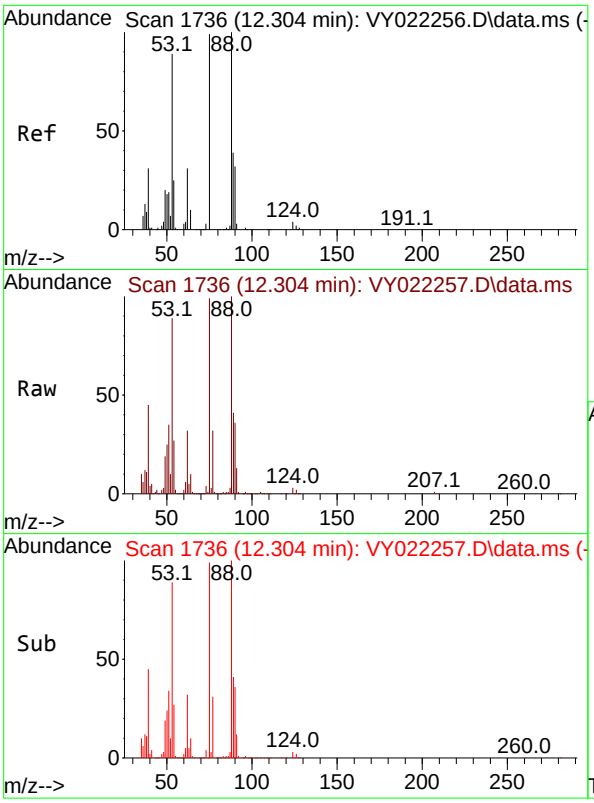



#80
1,3,5-Trimethylbenzene
Concen: 97.216 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:105 Resp: 1233838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.8 | 24.2 | 72.6 |

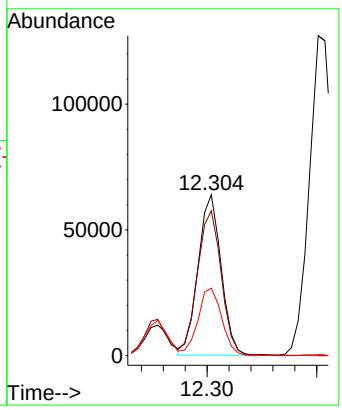





#81
trans-1,4-Dichloro-2-butene
Concen: 98.251 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 9325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 92.8 | 75.8 | 113.8 |
| 89 | 43.5 | 36.2 | 54.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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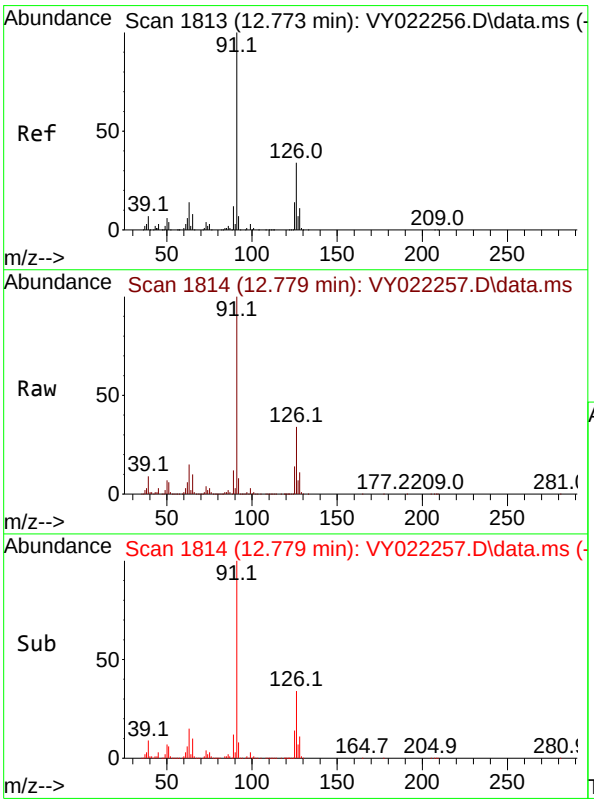
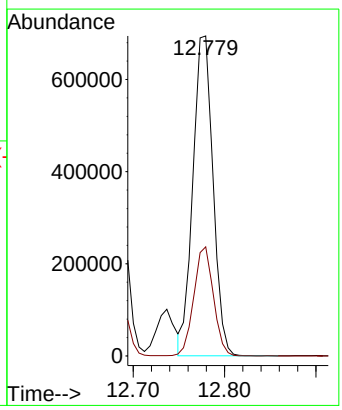
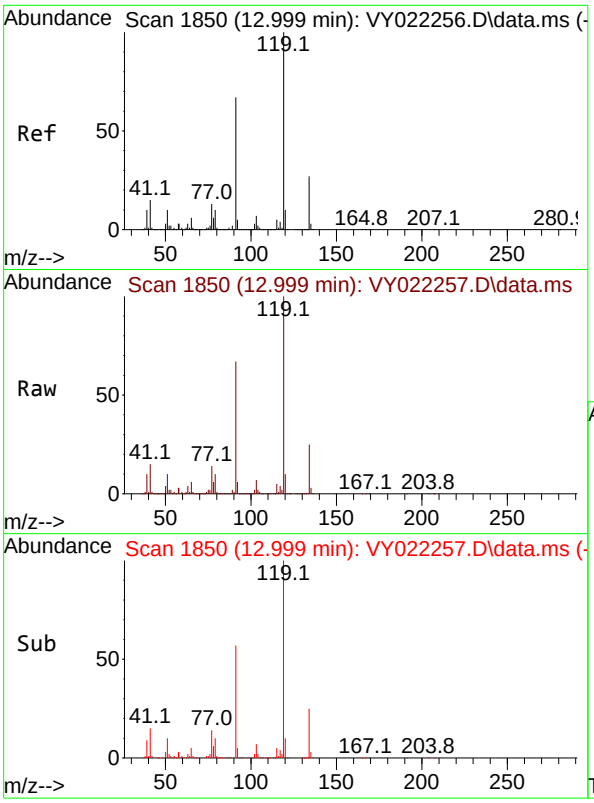



#82
4-Chlorotoluene
Concen: 99.052 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 91 Resp: 1061772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.3 | 16.8 | 50.4 |

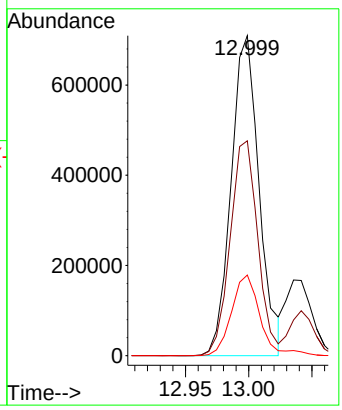





#83
tert-Butylbenzene
Concen: 96.859 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:119 Resp: 109261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 66.3 | 32.8 | 98.3 |
| 134 | 25.8 | 12.9 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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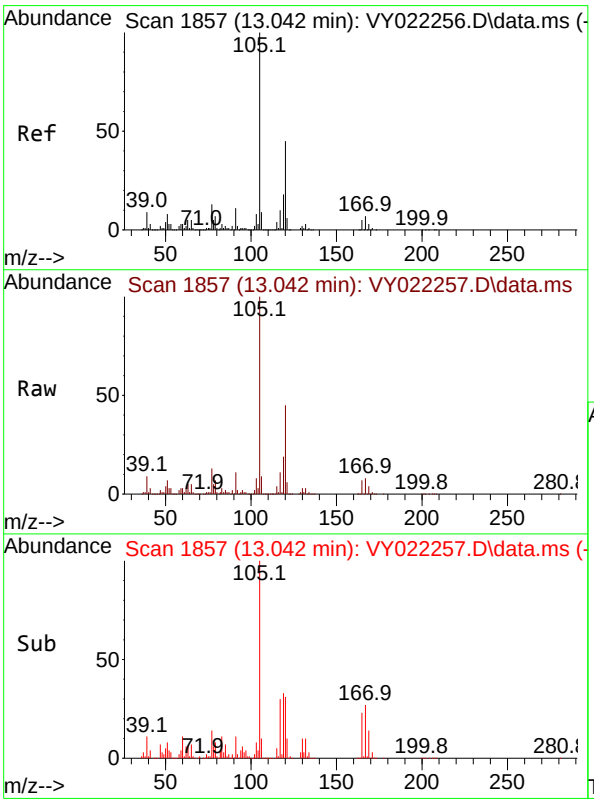
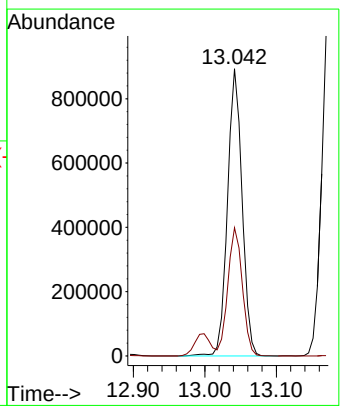
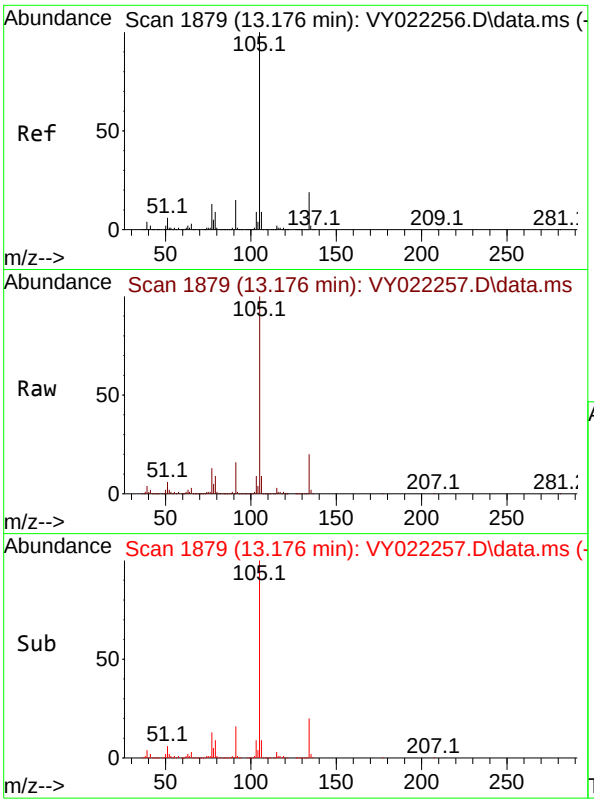



#84
1,2,4-Trimethylbenzene
Concen: 100.297 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:105 Resp: 1263612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.3 | 22.3 | 66.9 |

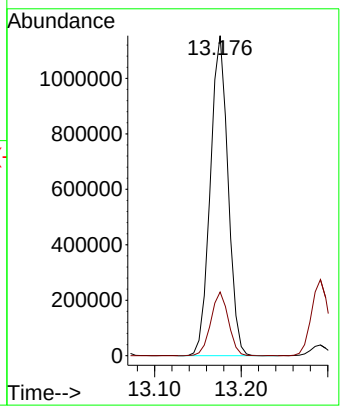





#85
sec-Butylbenzene
Concen: 97.623 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:105 Resp: 163472

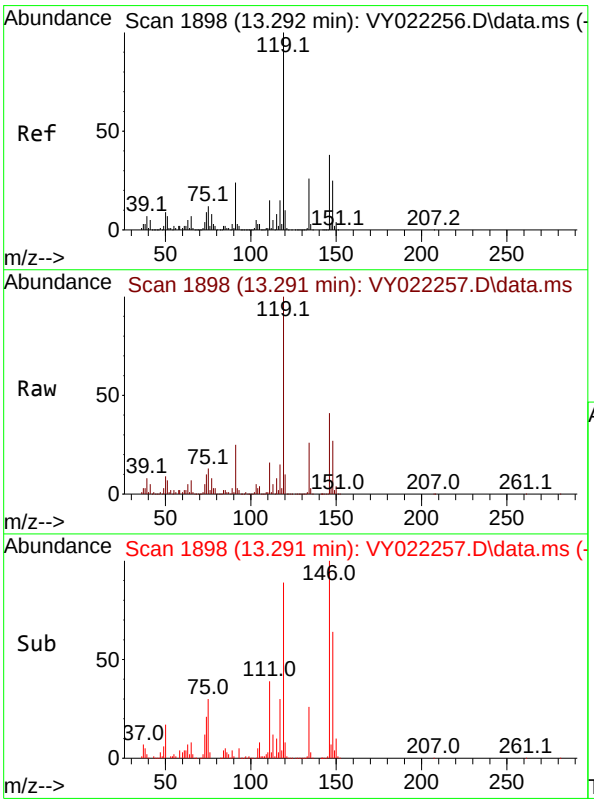
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.8 | 9.8 | 29.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

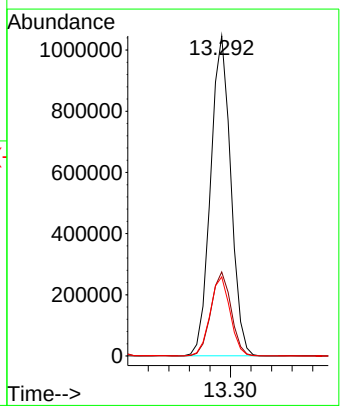
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

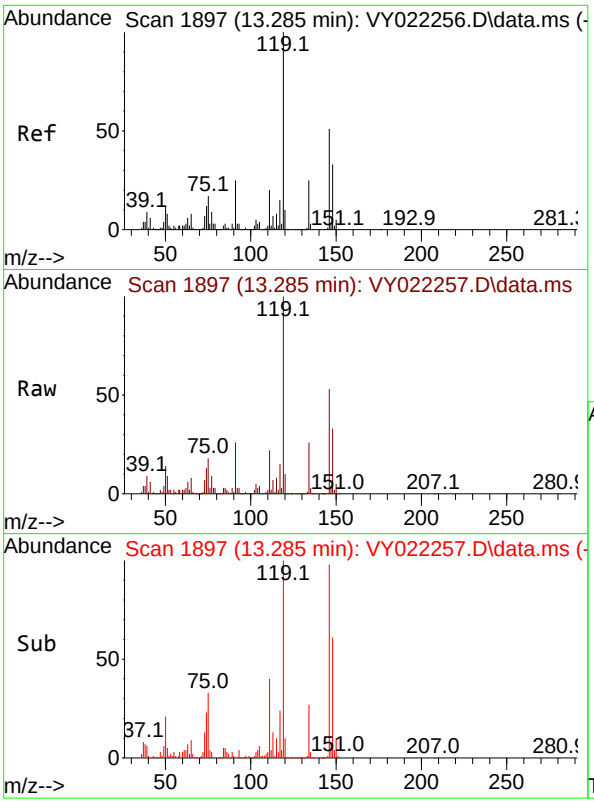



#86
p-Isopropyltoluene
Concen: 101.161 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:119 Resp: 1424684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 12.9 | 38.6 |
| 91 | 24.4 | 12.1 | 36.3 |

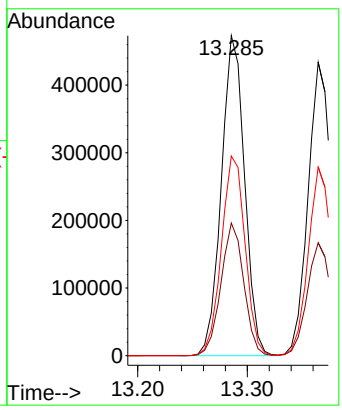





#87
1,3-Dichlorobenzene
Concen: 101.803 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:146 Resp: 69786

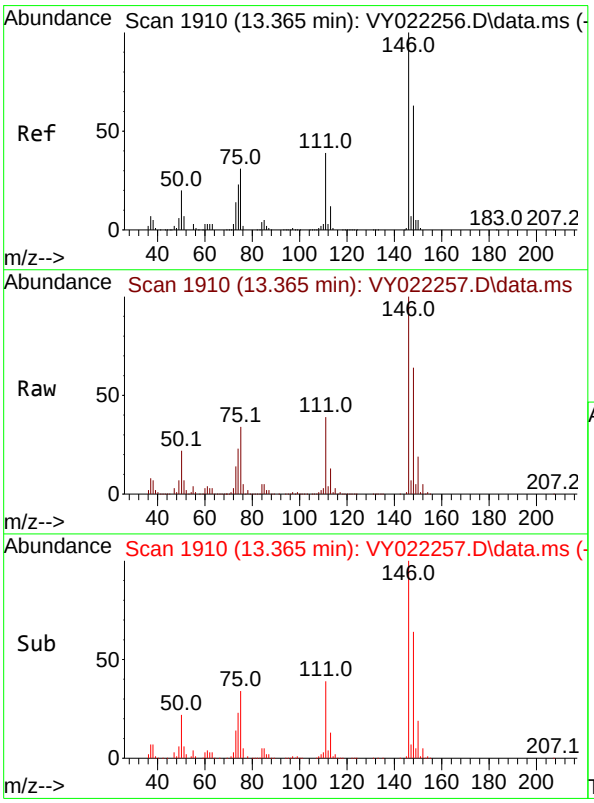
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.7 | 19.9 | 59.7 |
| 148 | 63.6 | 31.9 | 95.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

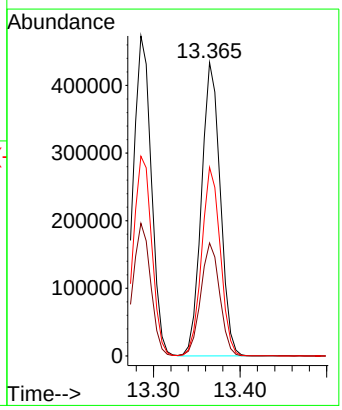
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

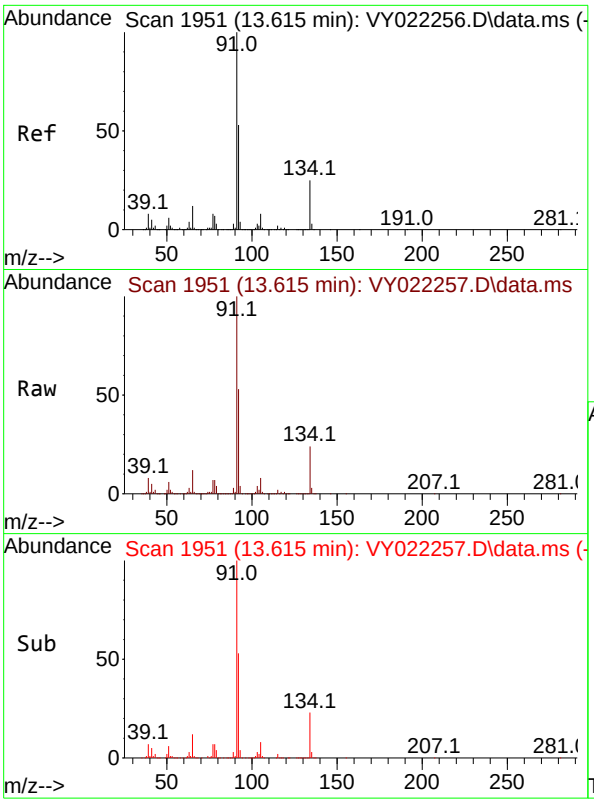



#88
1,4-Dichlorobenzene
Concen: 99.199 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:146 Resp: 654104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.6 | 20.0 | 59.9 |
| 148 | 63.7 | 32.1 | 96.5 |

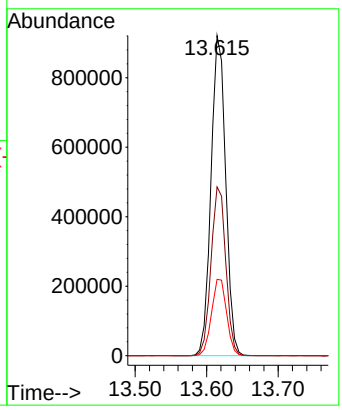





#89
n-Butylbenzene
Concen: 98.327 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 91 Resp: 131006

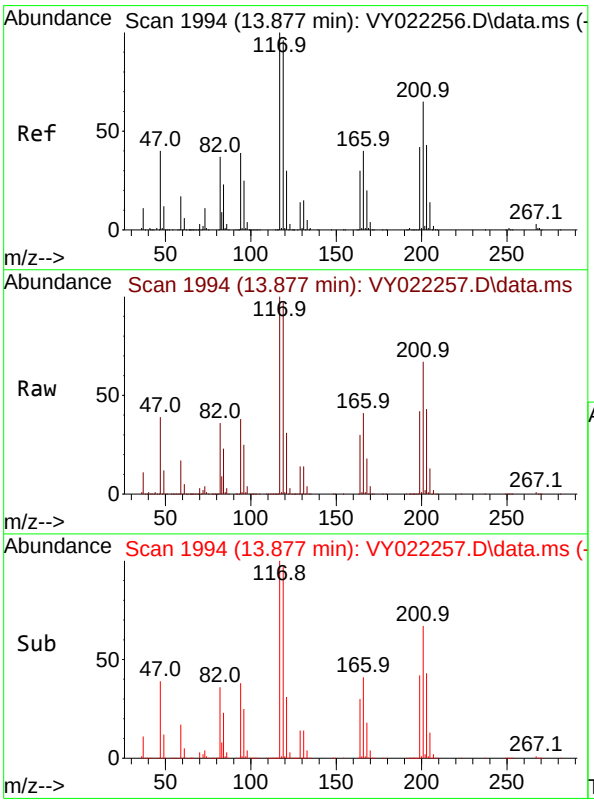
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.1 | 26.3 | 78.9 |
| 134 | 24.6 | 12.4 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

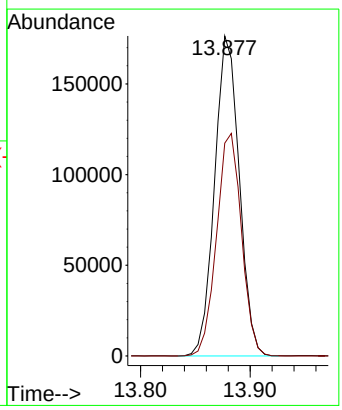
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

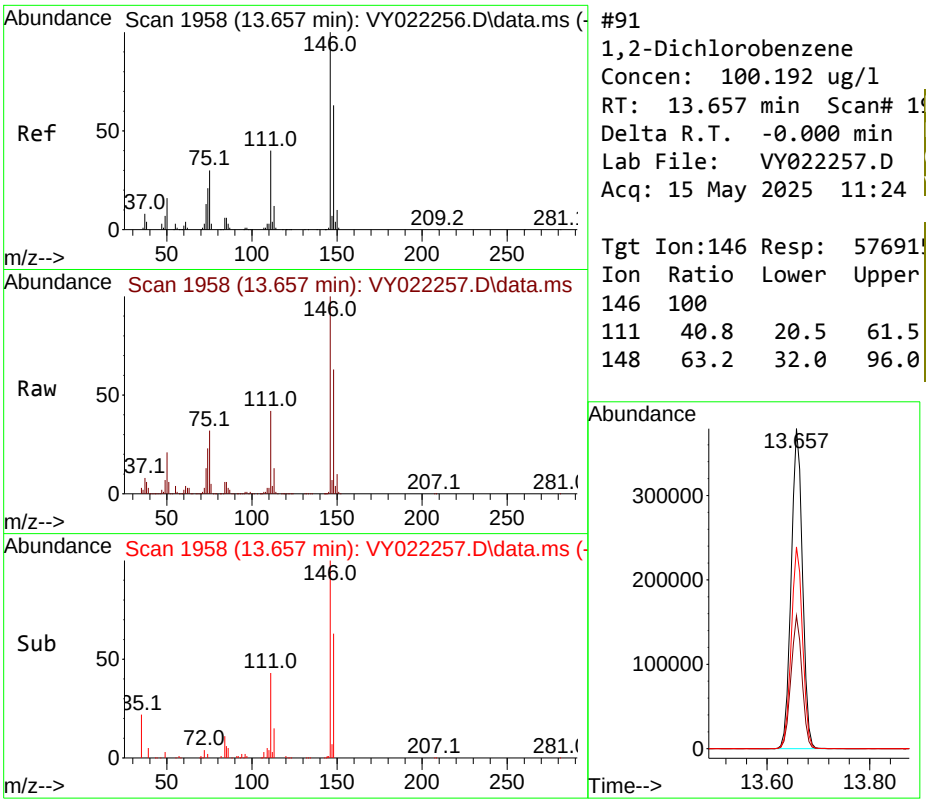



#90
Hexachloroethane
Concen: 96.961 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:117 Resp: 275652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 70.4 | 35.2 | 105.6 |






#91
1,2-Dichlorobenzene
Concen: 100.192 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:146 Resp: 57691

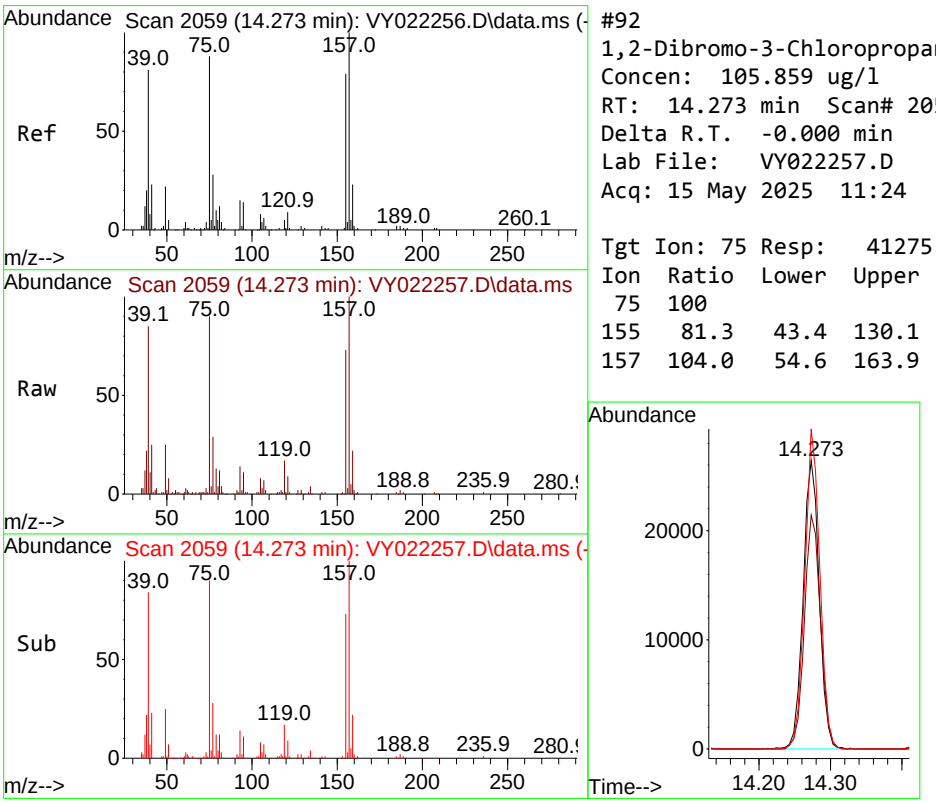
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.8 | 20.5 | 61.5 |
| 148 | 63.2 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

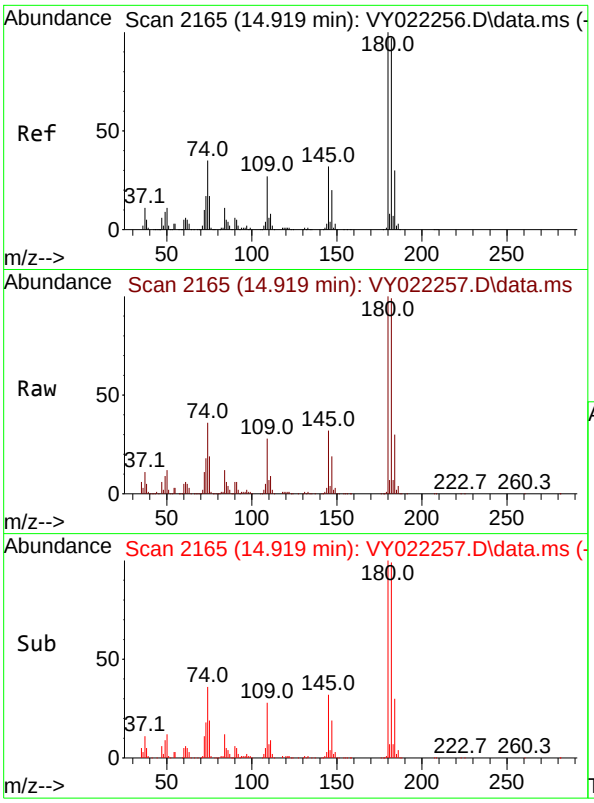
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025




#92
1,2-Dibromo-3-Chloropropane
Concen: 105.859 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 41275

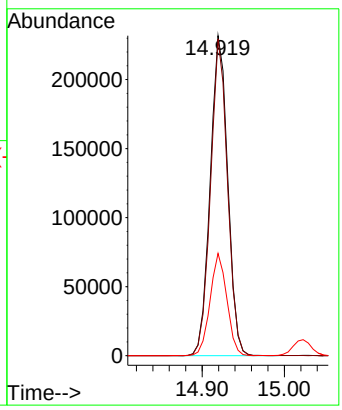
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 81.3 | 43.4 | 130.1 |
| 157 | 104.0 | 54.6 | 163.9 |




#93
1,2,4-Trichlorobenzene
Concen: 103.107 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:180 Resp: 34293

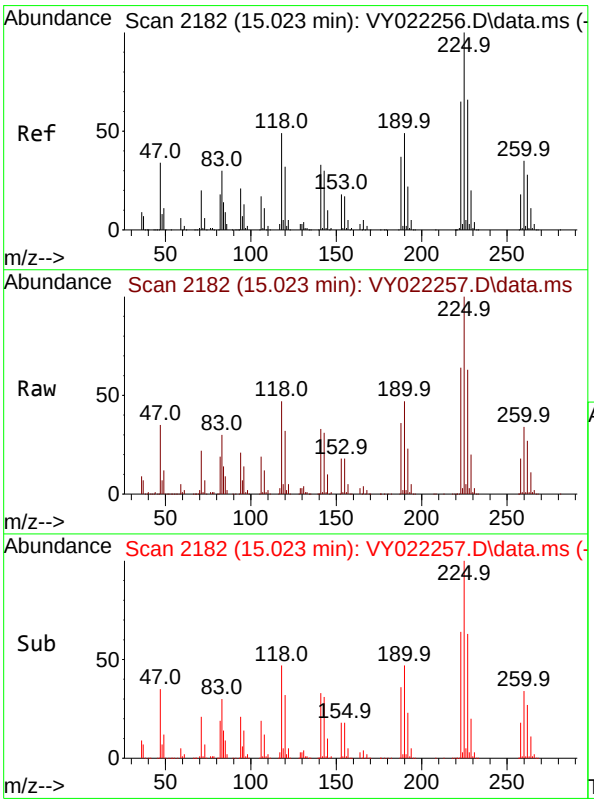
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.8 | 48.0 | 144.0 |
| 145 | 30.7 | 15.0 | 45.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

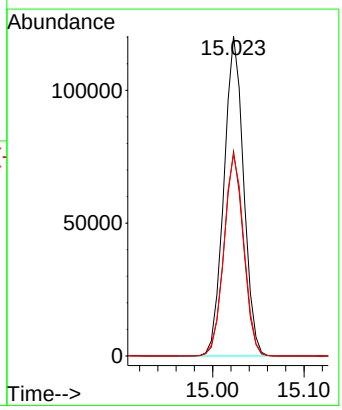
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

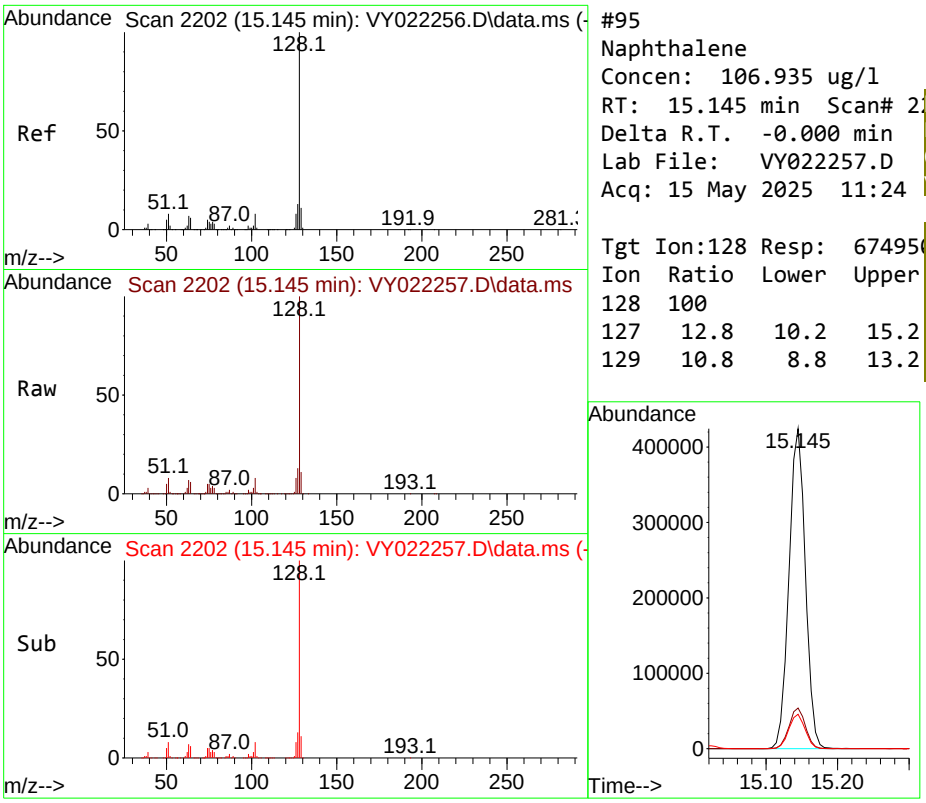



#94
Hexachlorobutadiene
Concen: 97.075 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:225 Resp: 180060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 31.5 | 94.5 |
| 227 | 64.1 | 32.1 | 96.3 |






#95
Naphthalene
Concen: 106.935 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:128 Resp: 67495

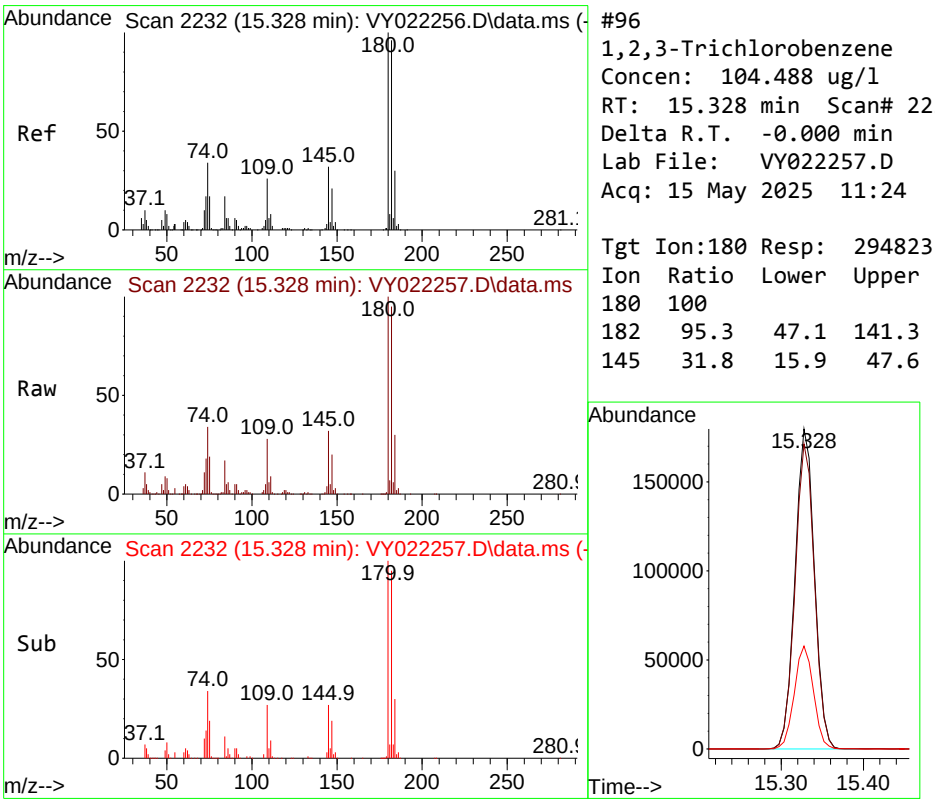
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.2 | 15.2 |
| 129 | 10.8 | 8.8 | 13.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025




#96
1,2,3-Trichlorobenzene
Concen: 104.488 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:180 Resp: 294823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 47.1 | 141.3 |
| 145 | 31.8 | 15.9 | 47.6 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022258.D
Acq On : 15 May 2025 11:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 16 01:25:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 271027 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 442917 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 389769 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 187978 | 50.000 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 455385 | 153.739 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 307.480%# | | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 412318 | 155.969 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 311.940%# | | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1689714 | 156.065 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 312.120%# | | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 541367 | 157.751 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 315.500%# | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 389593 | 137.760 | ug/l | | 100 |
| 3) Chloromethane | 2.068 | 50 | 727243 | 122.246 | ug/l | | 99 |
| 4) Vinyl Chloride | 2.202 | 62 | 902596 | 135.801 | ug/l | | 97 |
| 5) Bromomethane | 2.586 | 94 | 780107 | 144.182 | ug/l | | 99 |
| 6) Chloroethane | 2.727 | 64 | 590870 | 142.898 | ug/l | | 98 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 989291 | 147.013 | ug/l | | 99 |
| 8) Diethyl Ether | 3.452 | 74 | 236216 | 146.270 | ug/l | | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 422397 | 144.588 | ug/l | | 100 |
| 10) Methyl Iodide | 4.001 | 142 | 518980 | 153.489 | ug/l | | 98 |
| 11) Tert butyl alcohol | 4.866 | 59 | 172549 | 762.834 | ug/l | # | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 425285 | 146.697 | ug/l | | 97 |
| 13) Acrolein | 3.653 | 56 | 237291 | 717.595 | ug/l | | 98 |
| 14) Allyl chloride | 4.379 | 41 | 756728 | 148.866 | ug/l | | 100 |
| 15) Acrylonitrile | 5.055 | 53 | 512850 | 770.708 | ug/l | | 100 |
| 16) Acetone | 3.873 | 43 | 375443 | 675.976 | ug/l | | 99 |
| 17) Carbon Disulfide | 4.104 | 76 | 1365378 | 144.429 | ug/l | | 100 |
| 18) Methyl Acetate | 4.385 | 43 | 282084 | 166.915 | ug/l | | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 1225258 | 153.279 | ug/l | | 98 |
| 20) Methylene Chloride | 4.616 | 84 | 448817 | 125.059 | ug/l | | 99 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 472143 | 147.547 | ug/l | | 99 |
| 22) Diisopropyl ether | 6.019 | 45 | 1626927 | 151.557 | ug/l | | 99 |
| 23) Vinyl Acetate | 5.958 | 43 | 4953644 | 763.831 | ug/l | | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 879785 | 146.697 | ug/l | | 99 |
| 25) 2-Butanone | 6.890 | 43 | 708010 | 762.091 | ug/l | | 98 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 787195 | 147.575 | ug/l | | 100 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 563503 | 152.601 | ug/l | | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 387221 | 151.369 | ug/l | | 100 |
| 29) Tetrahydrofuran | 7.262 | 42 | 472224 | 790.072 | ug/l | | 100 |
| 30) Chloroform | 7.421 | 83 | 859317 | 149.381 | ug/l | | 98 |
| 31) Cyclohexane | 7.701 | 56 | 821784 | 137.144 | ug/l | | 98 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 784014 | 148.554 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 658871 | 151.316 | ug/l | | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 320686 | 153.067 | ug/l | | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 696139 | 154.450 | ug/l | | 100 |
| 39) Methylcyclohexane | 9.110 | 83 | 886329 | 151.510 | ug/l | | 98 |
| 40) Benzene | 8.079 | 78 | 1987535 | 153.973 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022258.D
Acq On : 15 May 2025 11:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:25:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 202603m | 132.161 ug/l | | |
| 42) 1,2-Dichloroethane | 8.159 | 62 | 534517 | 153.124 ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 704366 | 154.159 ug/l | # | 89 |
| 44) Trichloroethene | 8.866 | 130 | 481990 | 150.171 ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 472217 | 151.736 ug/l | | 97 |
| 46) Dibromomethane | 9.231 | 93 | 258087 | 153.757 ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 669834 | 153.824 ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 344147 | 161.060 ug/l | | 99 |
| 49) 1,4-Dioxane | 9.231 | 88 | 61019 | 3217.888 ug/l | | 95 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 1829015 | 815.822 ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 1276917 | 156.216 ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 663513 | 156.134 ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 754493 | 154.963 ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 330716 | 153.863 ug/l | | 99 |
| 56) Ethyl methacrylate | 10.439 | 69 | 535897 | 160.058 ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 584253 | 152.987 ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 1350536 | 898.675 ug/l | | 99 |
| 59) 2-Hexanone | 10.762 | 43 | 1227881 | 816.860 ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 438666 | 157.237 ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 308529 | 154.008 ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 501627 | 139.237 ug/l | | 100 |
| 65) Chlorobenzene | 11.438 | 112 | 1336594 | 151.997 ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 480525 | 158.952 ug/l | | 100 |
| 67) Ethyl Benzene | 11.518 | 91 | 2598027 | 157.756 ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 1992413 | 321.066 ug/l | | 99 |
| 69) o-Xylene | 11.957 | 106 | 937727 | 159.714 ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 1613798 | 162.944 ug/l | | 100 |
| 71) Bromoform | 12.133 | 173 | 254251 | 155.818 ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 2357568 | 151.387 ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 694999 | 156.041 ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 375378 | 156.735 ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 289968m | 87.525 ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 509579 | 153.206 ug/l | | 99 |
| 78) n-propylbenzene | 12.591 | 91 | 2822794 | 150.276 ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 1563003 | 151.415 ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 1888432 | 150.219 ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 139931 | 148.846 ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.774 | 91 | 1616520 | 152.250 ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 1699962 | 152.144 ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 1934641 | 155.030 ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 2493393 | 150.330 ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 2205275 | 158.088 ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 1079479 | 158.981 ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 969874 | 148.497 ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 1992554 | 150.985 ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 417341 | 148.208 ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.658 | 146 | 858733 | 150.565 ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 58383 | 151.172 ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 508537 | 154.361 ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 261832 | 142.514 ug/l | | 100 |
| 95) Naphthalene | 15.139 | 128 | 979369 | 156.653 ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 426231 | 152.509 ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022258.D
Acq On : 15 May 2025 11:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:25:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

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

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

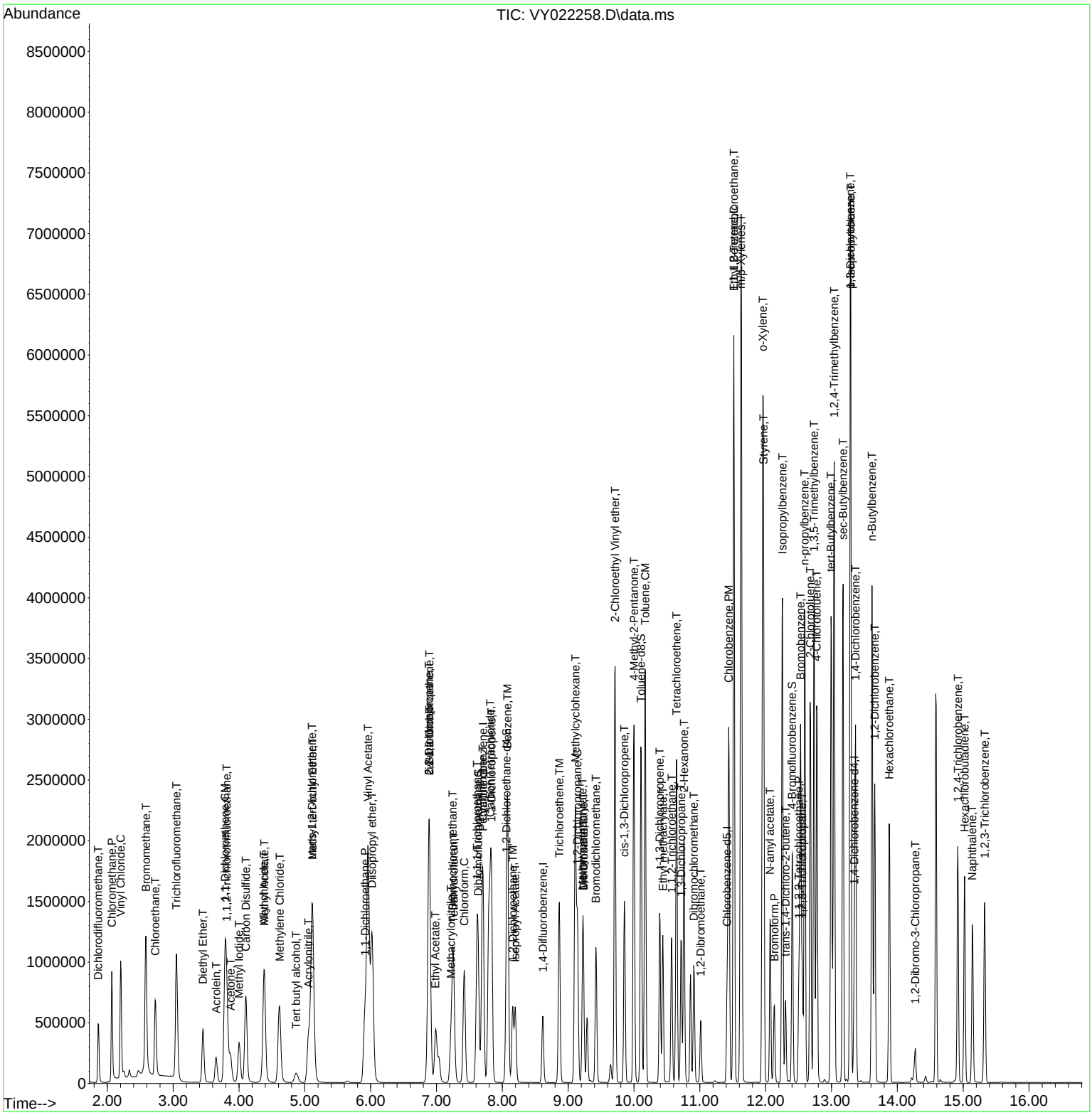
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022258.D
Acq On : 15 May 2025 11:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

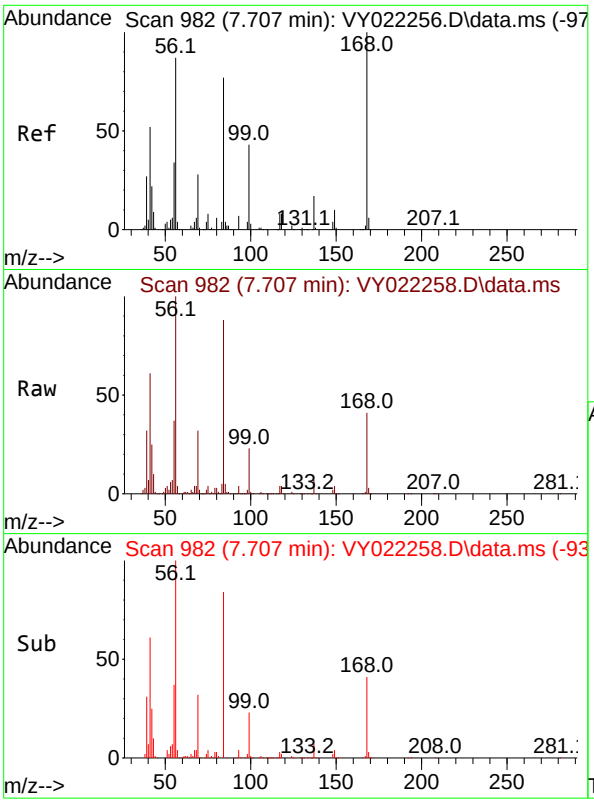
Quant Time: May 16 01:25:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

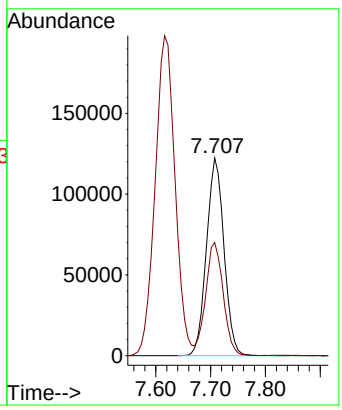





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:168 Resp: 27102

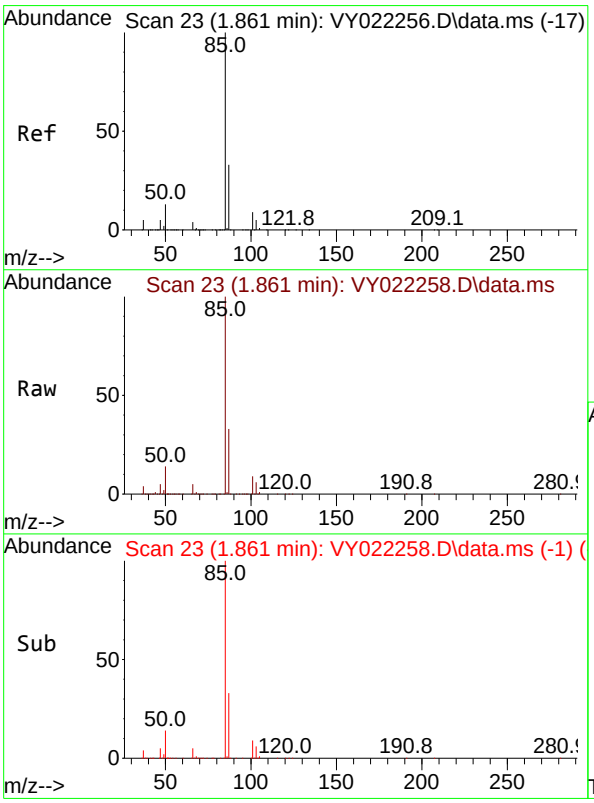
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.0 | 44.2 | 66.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

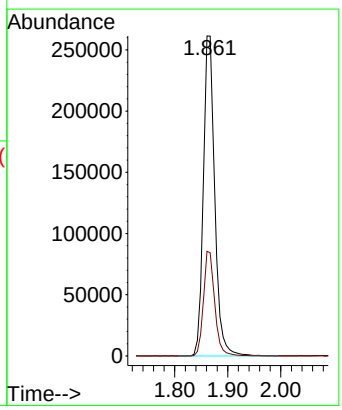
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

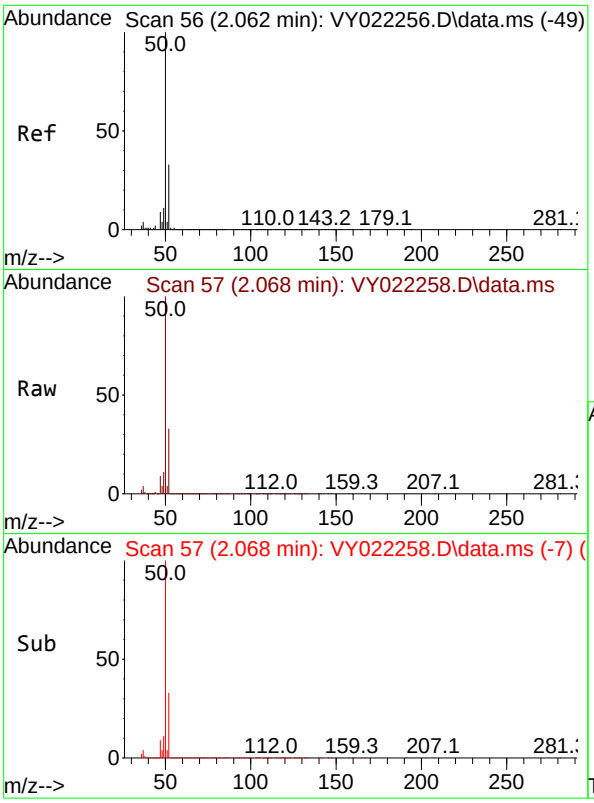



#2
Dichlorodifluoromethane
Concen: 137.760 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 85 Resp: 389593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.7 | 16.5 | 49.5 |

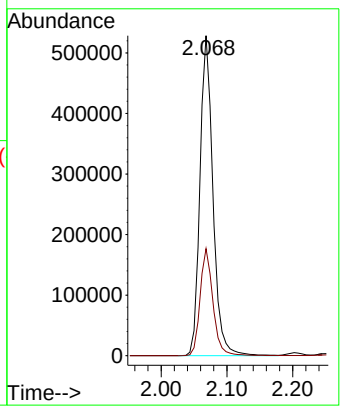





#3
Chloromethane
Concen: 122.246 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 50 Resp: 72724

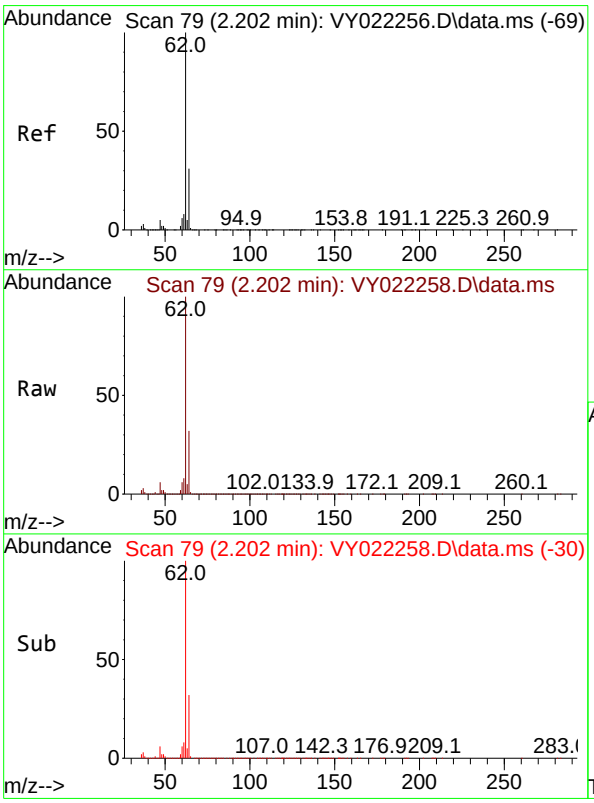
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.5 | 26.5 | 39.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

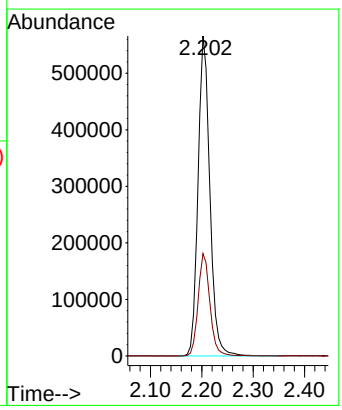
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

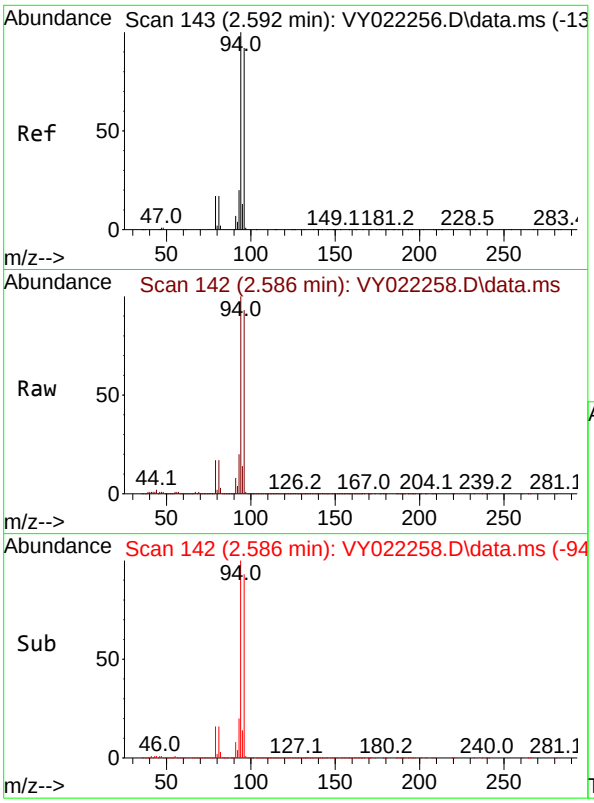



#4
Vinyl Chloride
Concen: 135.801 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 62 Resp: 902596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.0 | 24.5 | 36.7 |

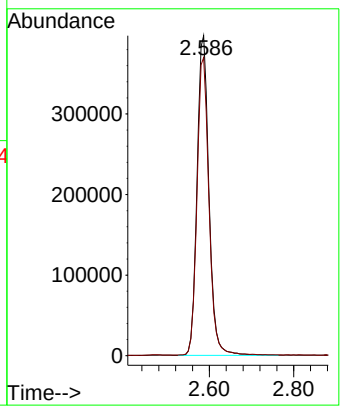





#5
Bromomethane
Concen: 144.182 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 94 Resp: 78010

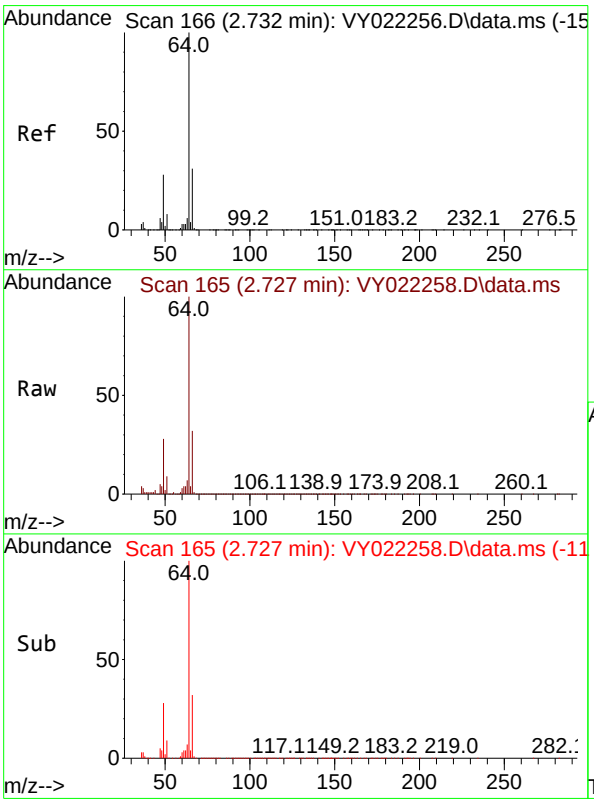
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.0 | 73.4 | 110.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

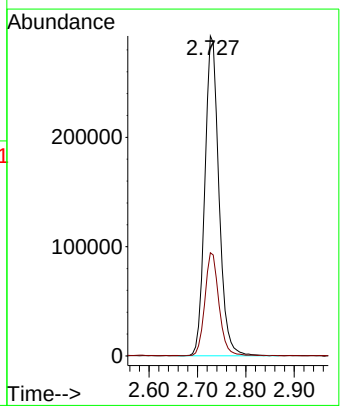
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

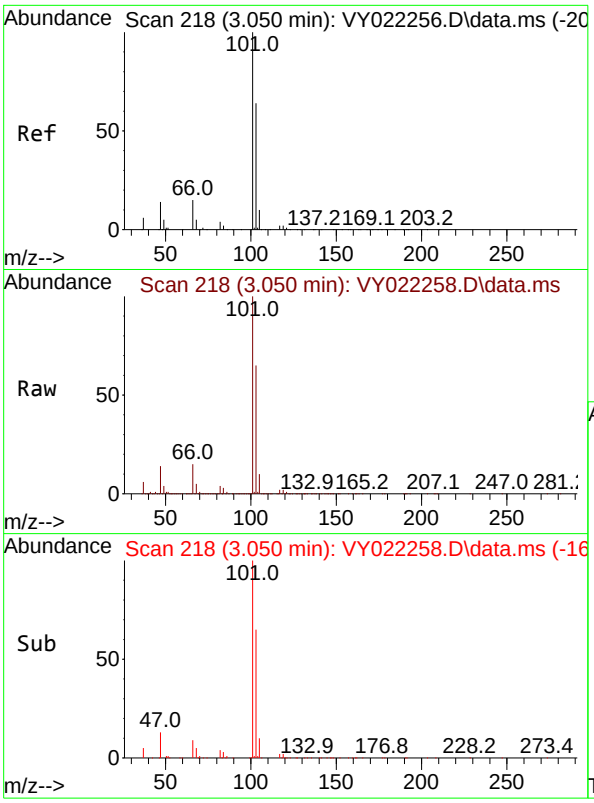



#6
Chloroethane
Concen: 142.898 ug/l
RT: 2.727 min Scan# 165
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 64 Resp: 590870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.2 | 24.8 | 37.2 |

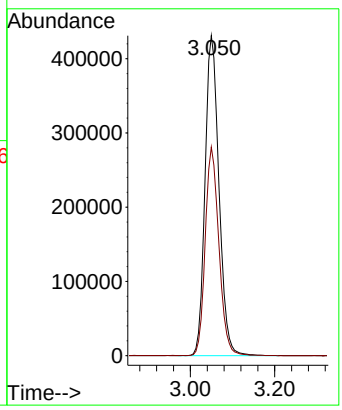





#7
Trichlorofluoromethane
Concen: 147.013 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:101 Resp: 98929

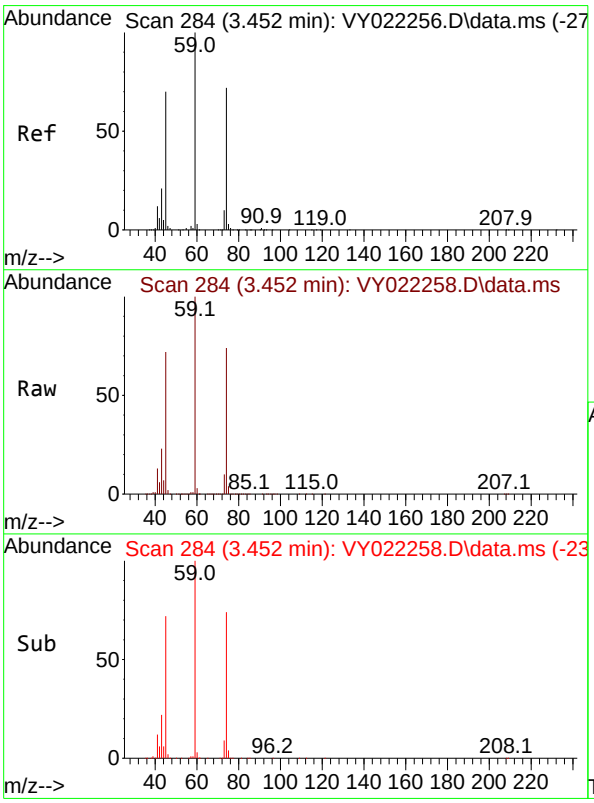
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.2 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

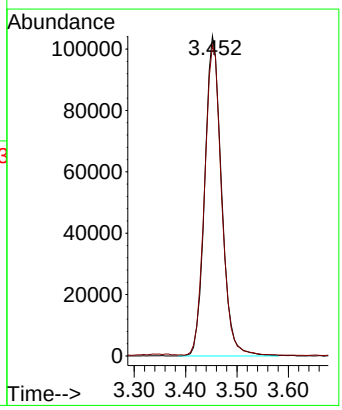
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

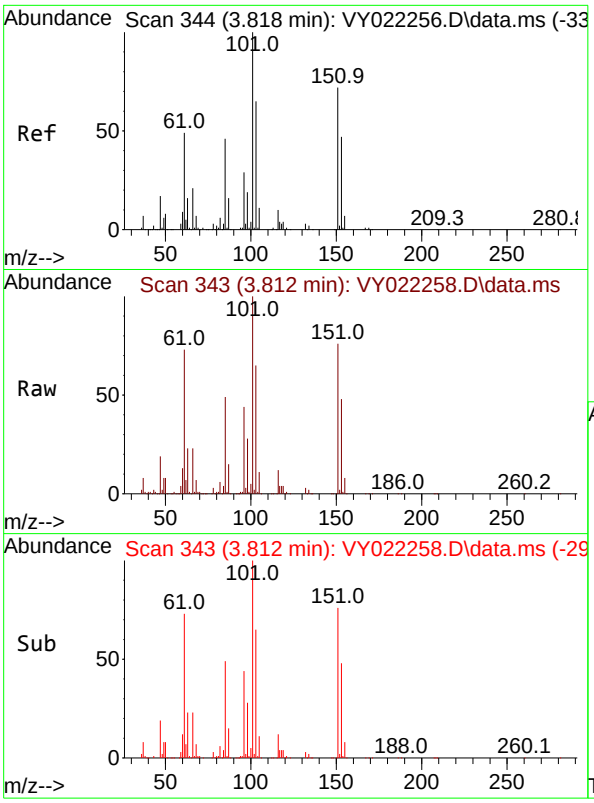



#8
Diethyl Ether
Concen: 146.270 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 74 Resp: 236216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 97.9 | 48.6 | 145.8 |

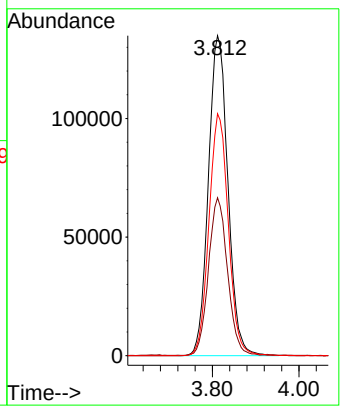





#9
1,1,2-Trichlorotrifluoroethane
Concen: 144.588 ug/l
RT: 3.812 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:101 Resp: 42239

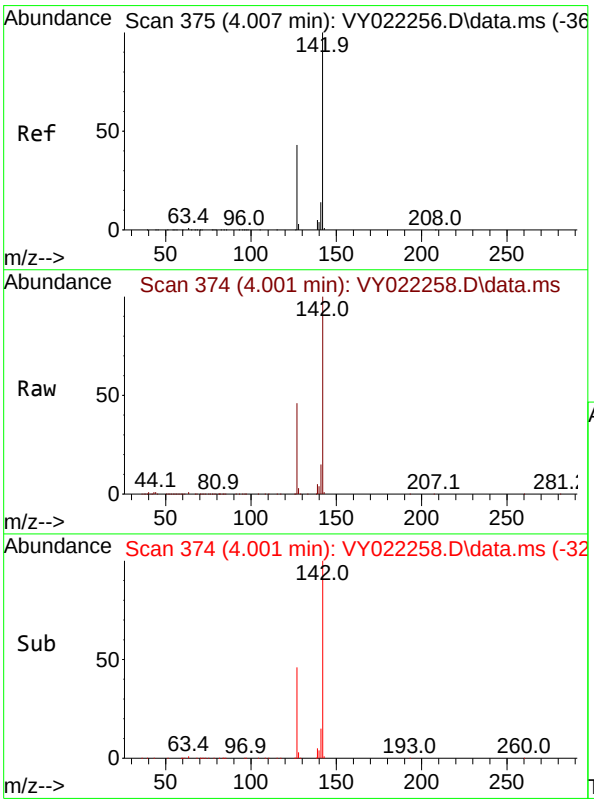
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 48.2 | 38.6 | 58.0 |
| 151 | 75.2 | 59.7 | 89.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

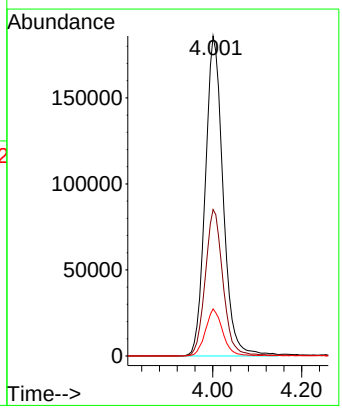
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

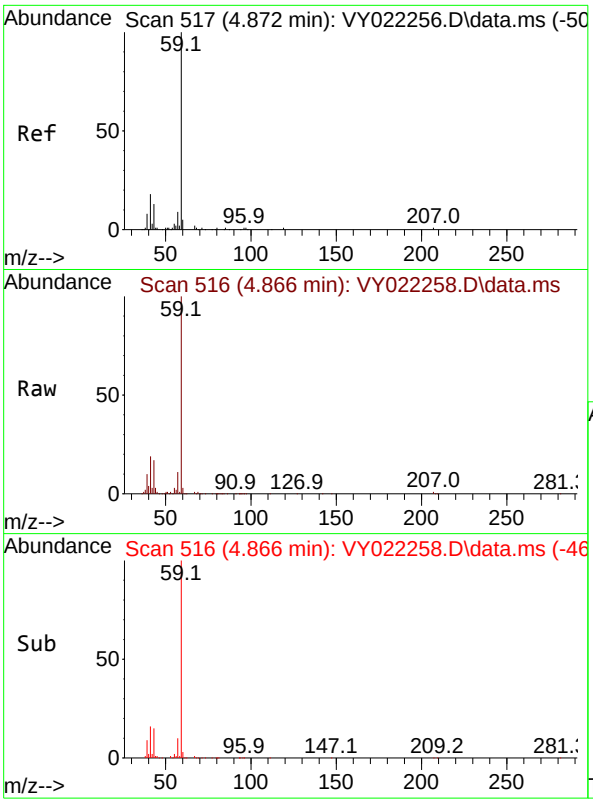



#10
Methyl Iodide
Concen: 153.489 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:142 Resp: 518980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.8 | 35.7 | 53.5 |
| 141 | 14.3 | 11.1 | 16.7 |

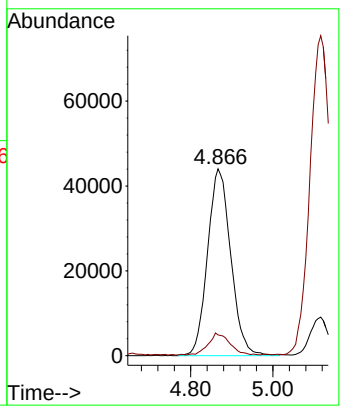





#11
Tert butyl alcohol
Concen: 762.834 ug/l
RT: 4.866 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 59 Resp: 17254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.9 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
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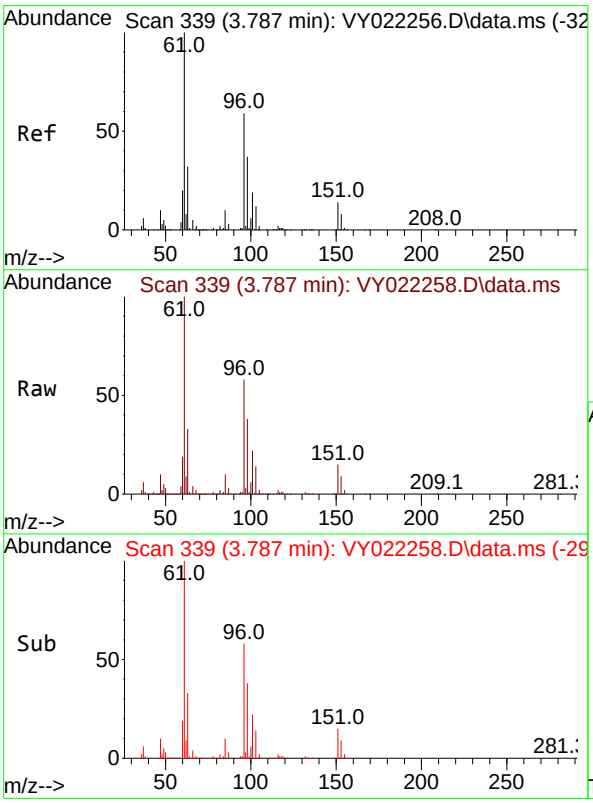
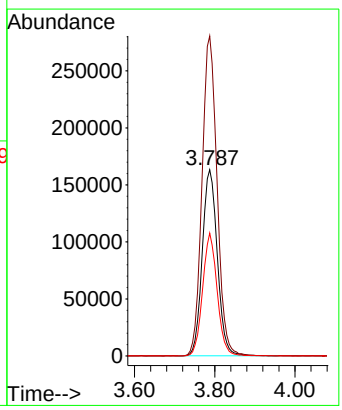
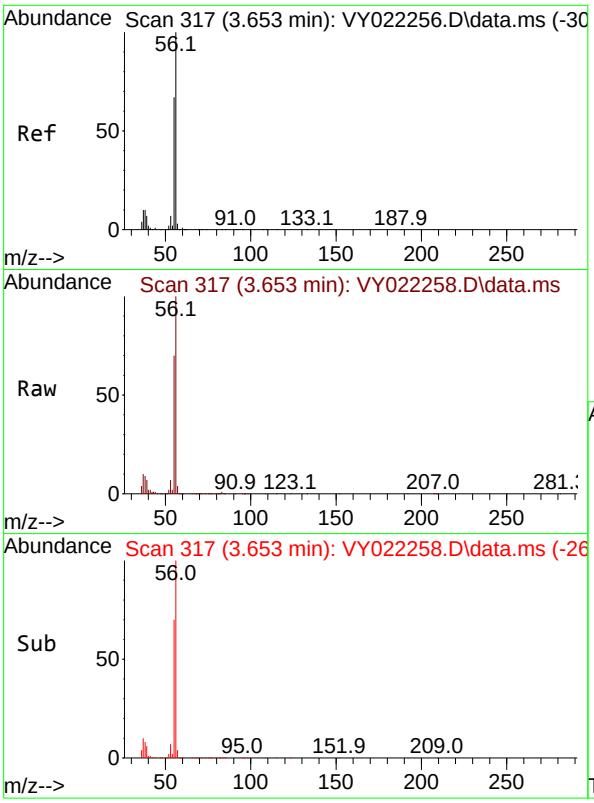



#12
1,1-Dichloroethene
Concen: 146.697 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 96 Resp: 425285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 171.9 | 134.9 | 202.3 |
| 98 | 65.9 | 49.9 | 74.9 |

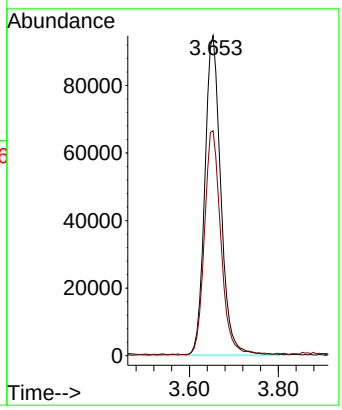





#13
Acrolein
Concen: 717.595 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 56 Resp: 23729

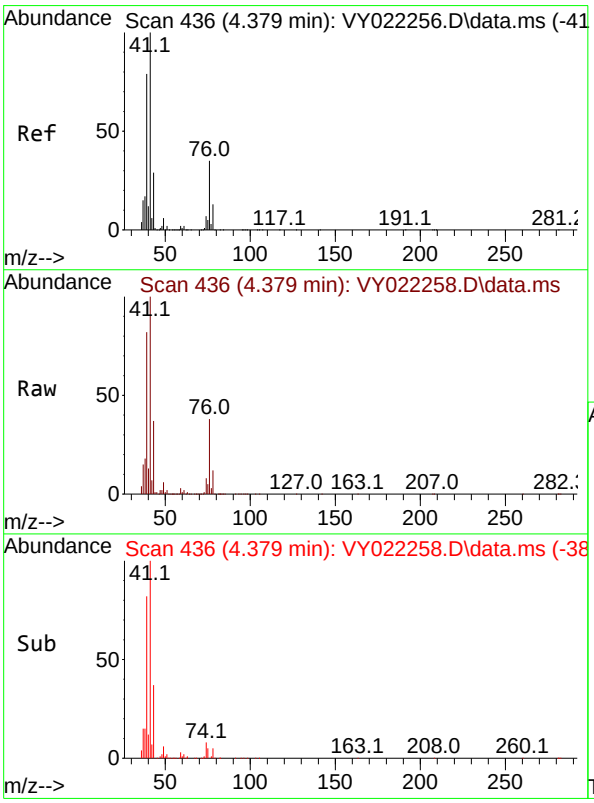
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.5 | 55.6 | 83.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

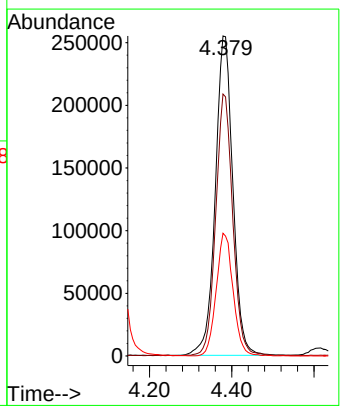
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

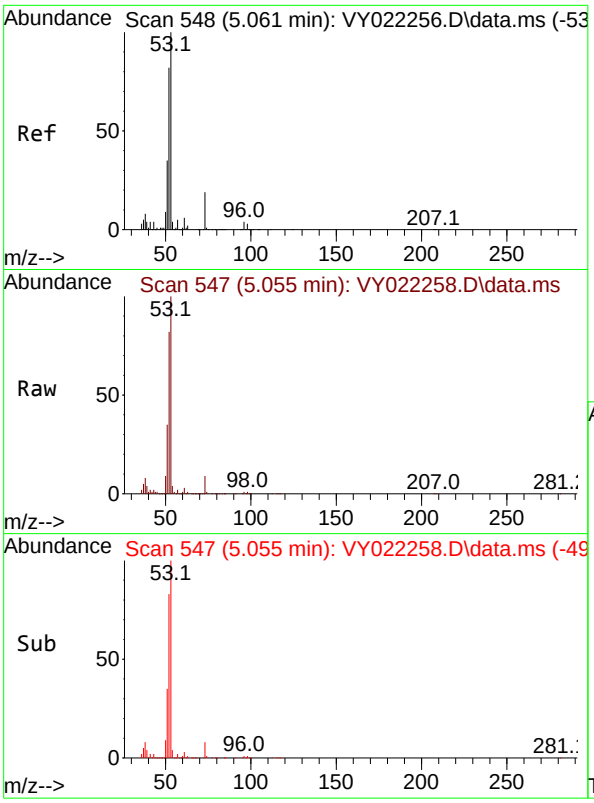



#14
Allyl chloride
Concen: 148.866 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 41 Resp: 756728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 79.2 | 63.4 | 95.0 |
| 76 | 36.8 | 29.5 | 44.3 |

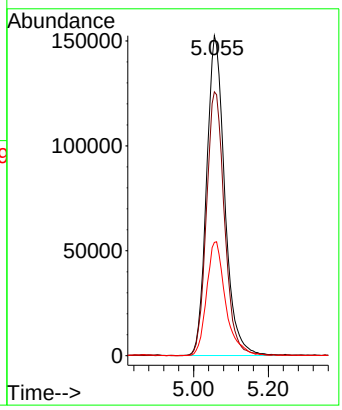





#15
Acrylonitrile
Concen: 770.708 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 53 Resp: 51285

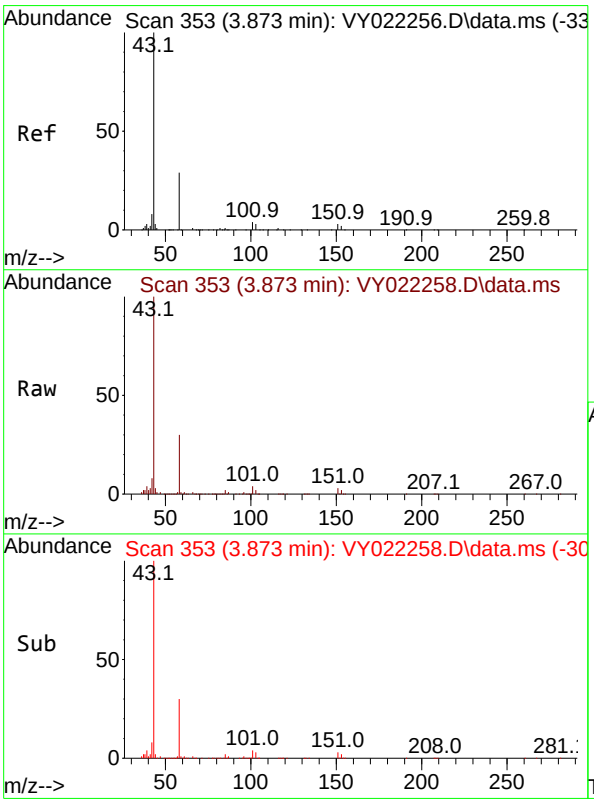
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.4 | 66.1 | 99.1 |
| 51 | 37.5 | 30.0 | 45.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

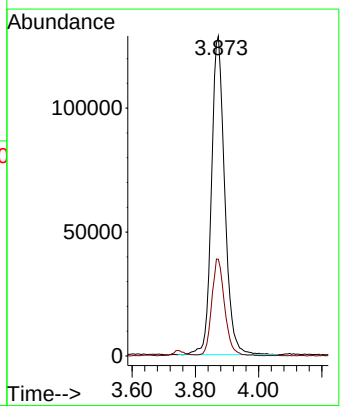
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

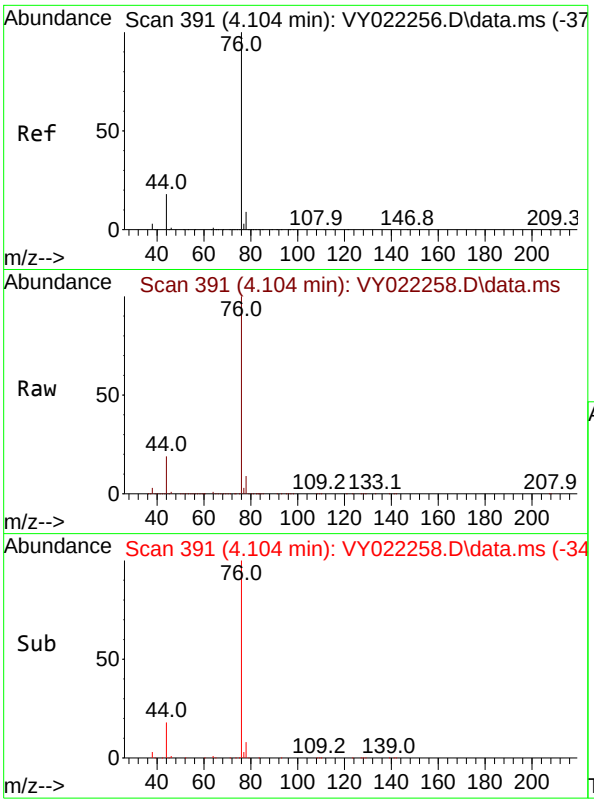



#16
Acetone
Concen: 675.976 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 375443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.2 | 23.6 | 35.4 |

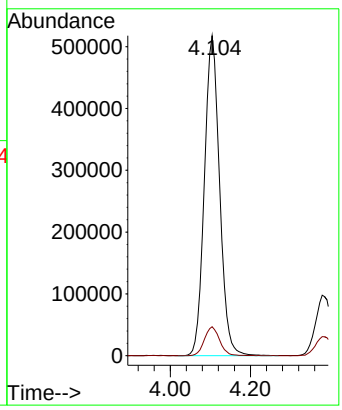





#17
Carbon Disulfide
Concen: 144.429 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 76 Resp: 136537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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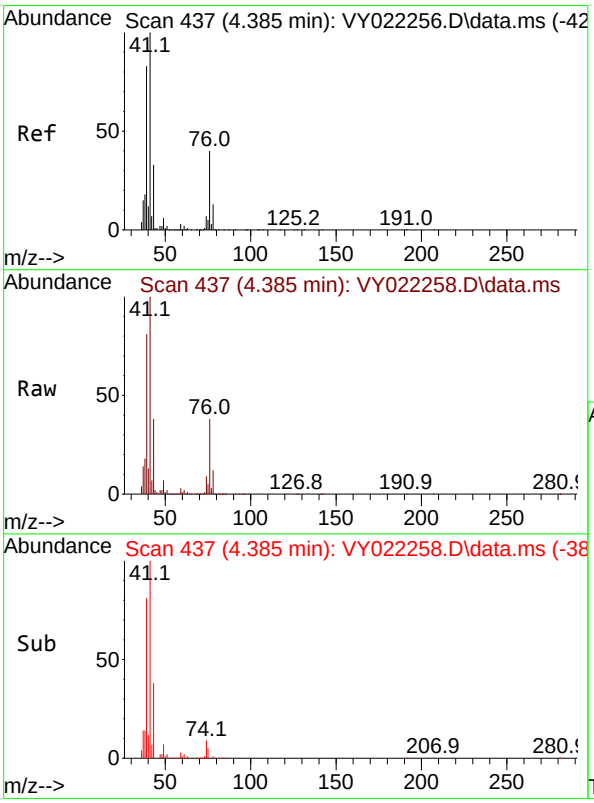
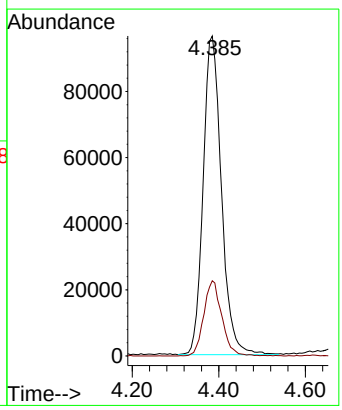
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

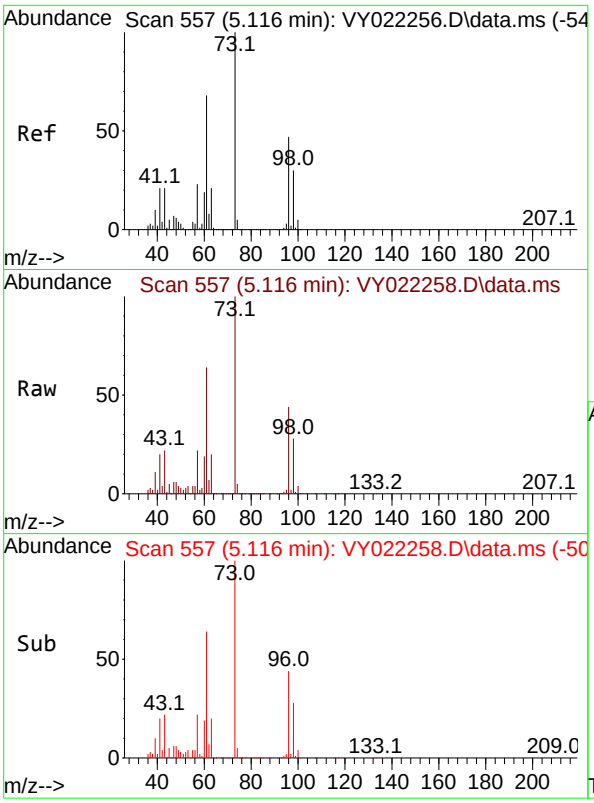



#18
Methyl Acetate
Concen: 166.915 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 282084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.4 | 18.2 | 27.4 |

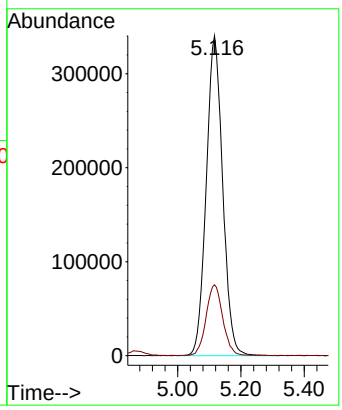





#19
Methyl tert-butyl Ether
Concen: 153.279 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 73 Resp: 122525

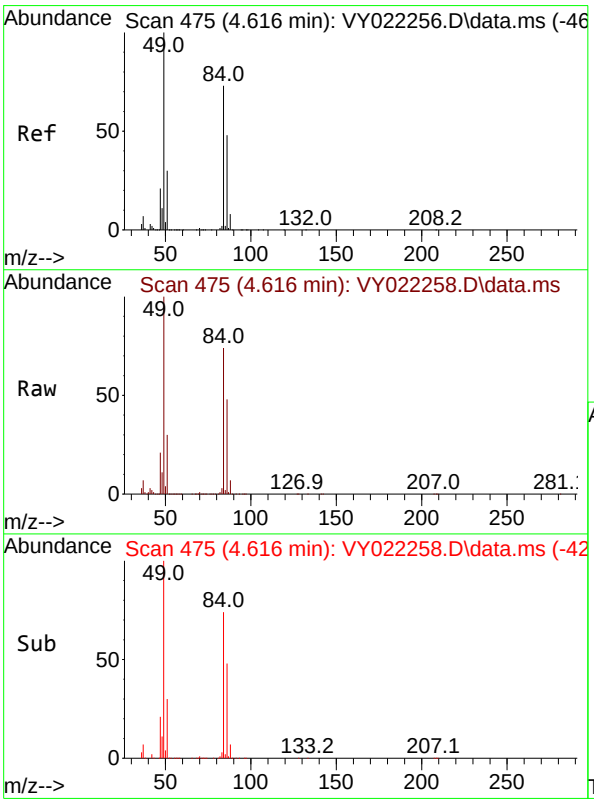
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.1 | 18.6 | 28.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

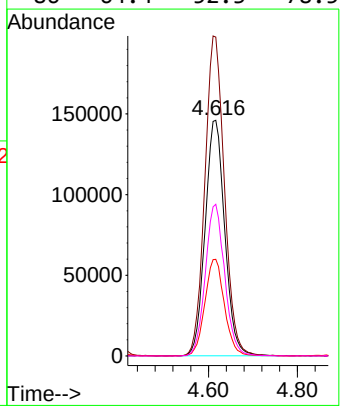
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

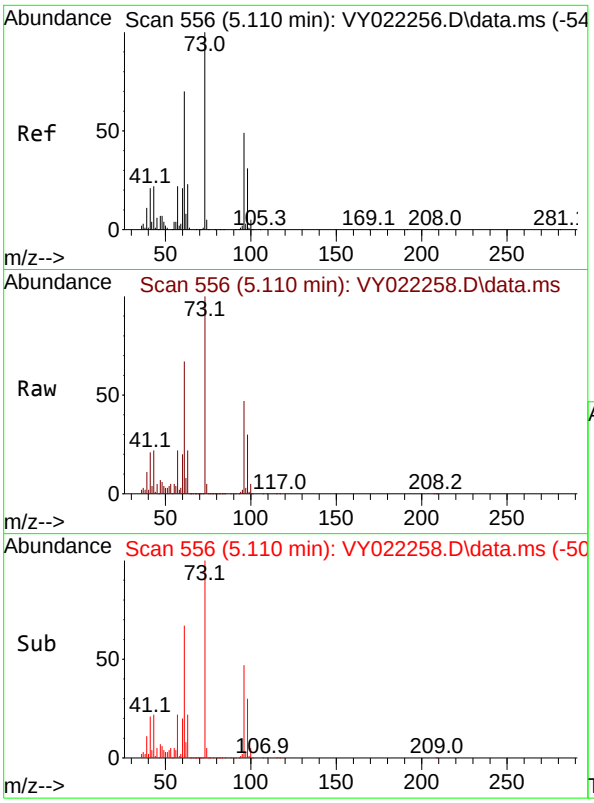



#20
Methylene Chloride
Concen: 125.059 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 84 Resp: 448817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 135.3 | 109.6 | 164.4 |
| 51 | 40.9 | 32.4 | 48.6 |
| 86 | 64.4 | 52.3 | 78.5 |

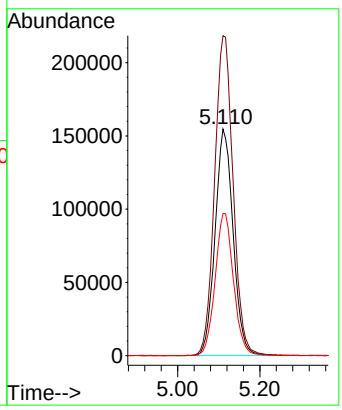





#21
trans-1,2-Dichloroethene
Concen: 147.547 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 96 Resp: 47214

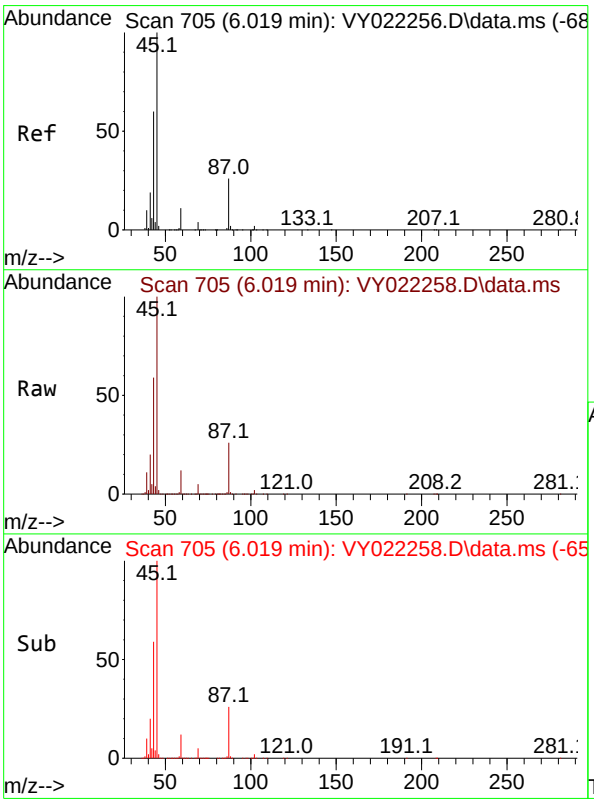
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.3 | 113.4 | 170.0 |
| 98 | 62.8 | 50.9 | 76.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

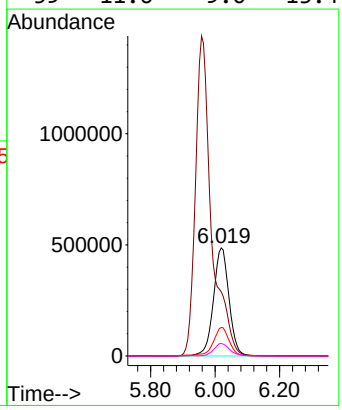
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

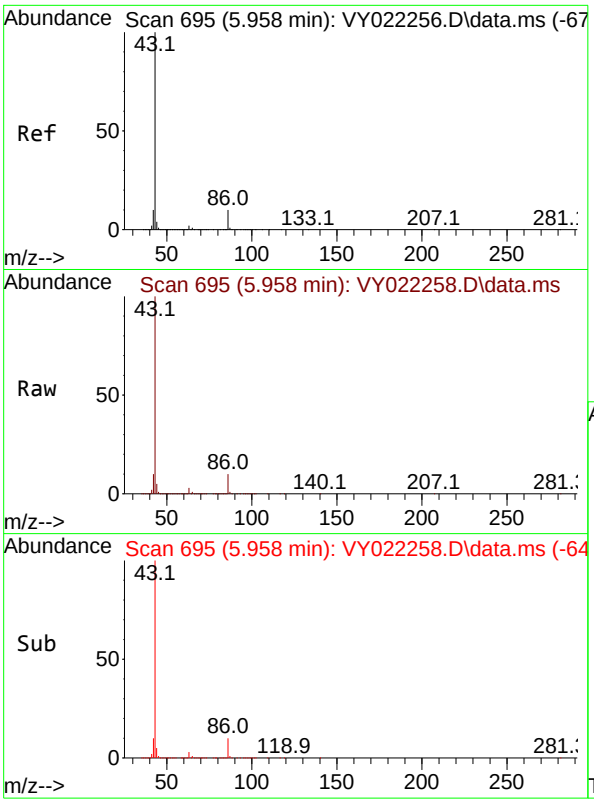



#22
Diisopropyl ether
Concen: 151.557 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 45 Resp: 1626927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.2 | 48.2 | 72.2 |
| 87 | 26.4 | 21.4 | 32.0 |
| 59 | 11.6 | 9.0 | 13.4 |

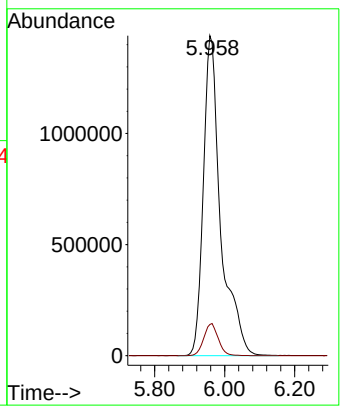





#23
Vinyl Acetate
Concen: 763.831 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 495364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.7 | 7.8 | 11.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
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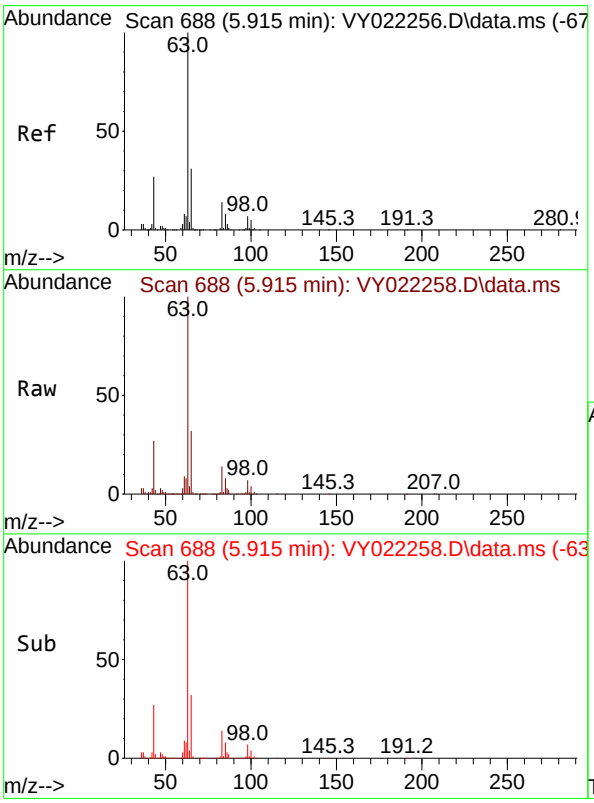
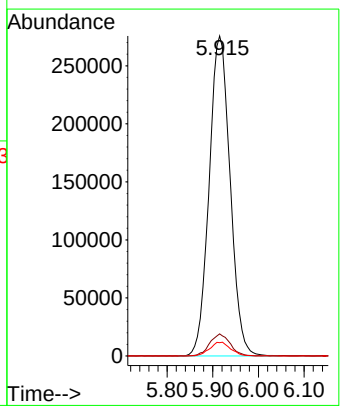
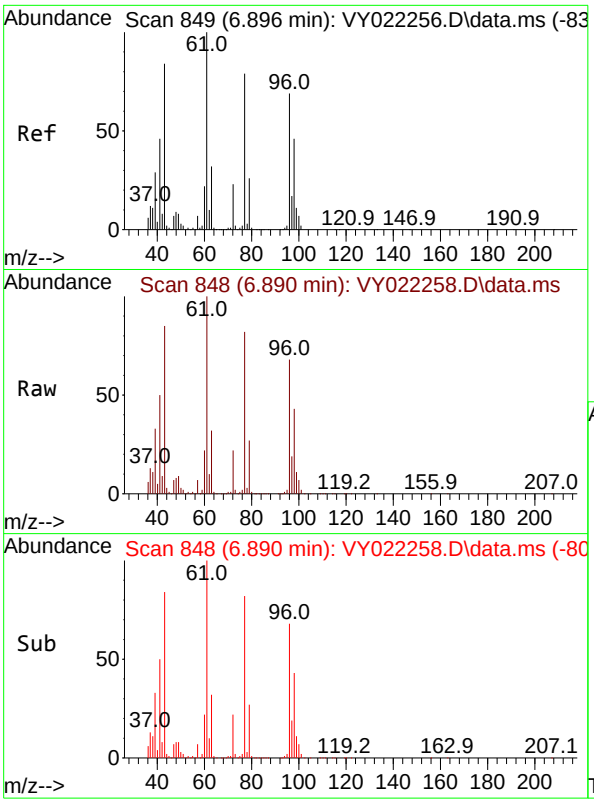



#24
1,1-Dichloroethane
Concen: 146.697 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 63 Resp: 879785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.9 | 3.5 | 10.5 |
| 100 | 4.2 | 2.4 | 7.2 |






#25
2-Butanone
Concen: 762.091 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 70801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.4 | 22.1 | 33.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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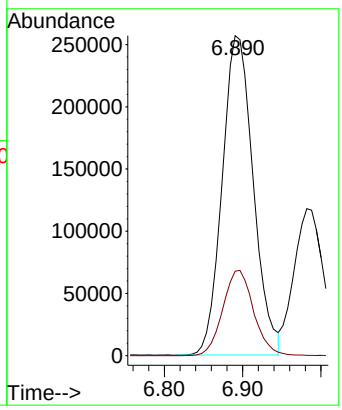
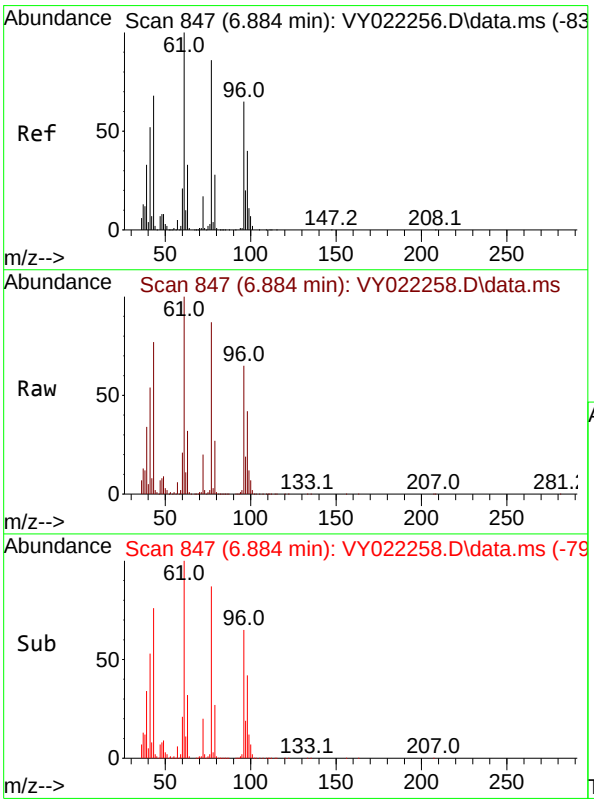
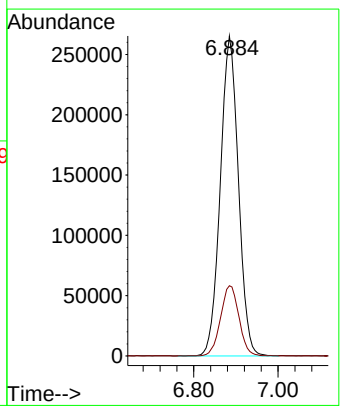


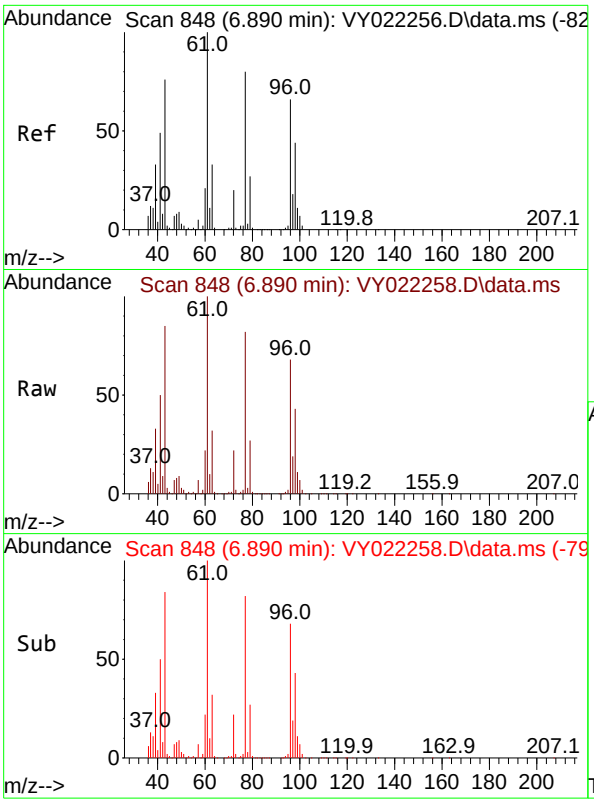




#26
2,2-Dichloropropane
Concen: 147.575 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 77 Resp: 787195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.3 | 11.2 | 33.5 |






#27
cis-1,2-Dichloroethene
Concen: 152.601 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 96 Resp: 56350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 151.2 | 0.0 | 302.6 |
| 98 | 64.4 | 0.0 | 128.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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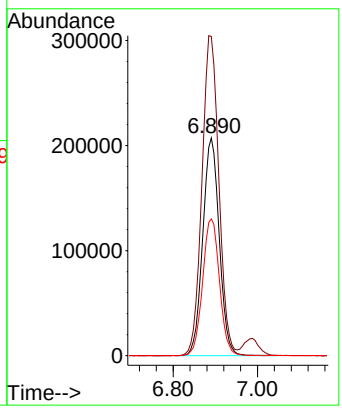
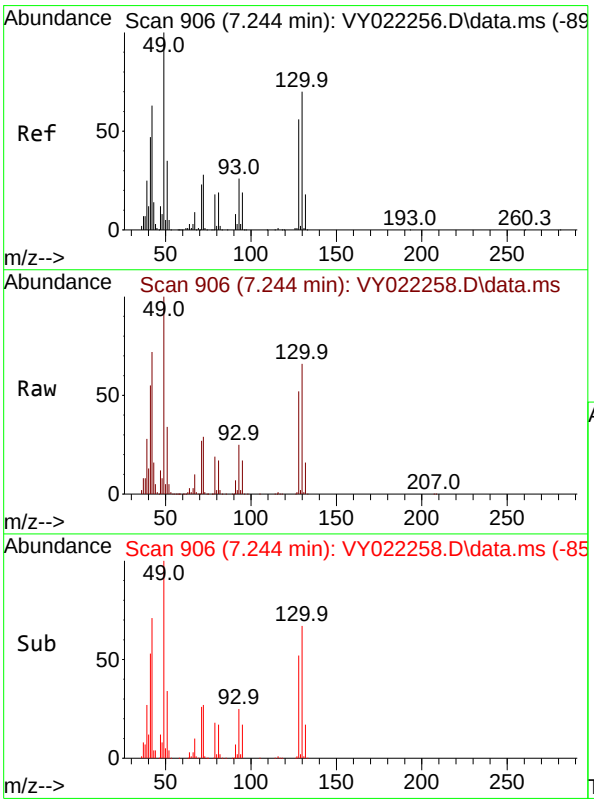
Supervised By :Semsettin Yesilyurt 05/16/2025

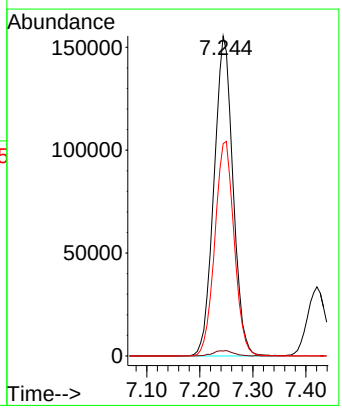


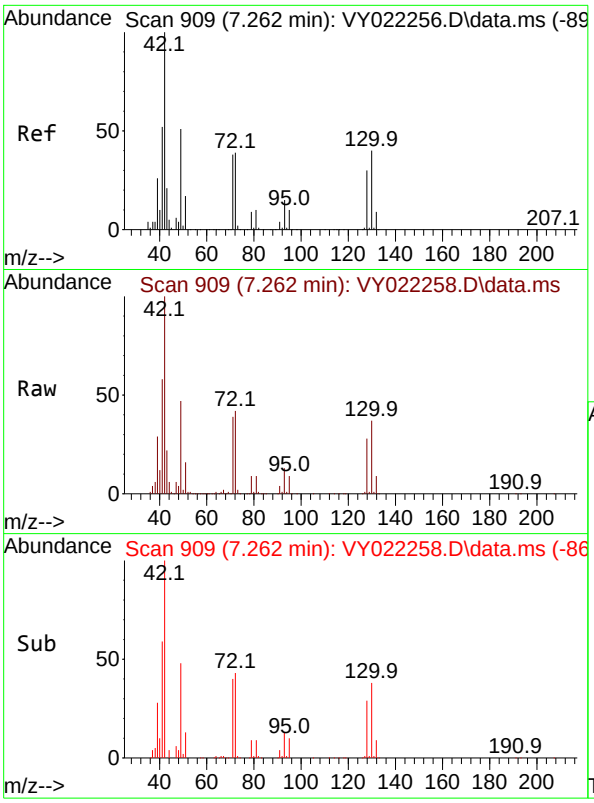




#28
Bromochloromethane
Concen: 151.369 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 49 Resp: 387221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 3.6 |
| 130 | 68.2 | 54.7 | 82.1 |

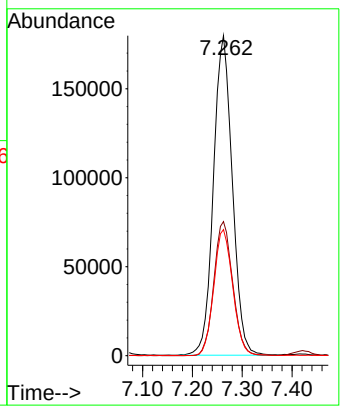





#29
Tetrahydrofuran
Concen: 790.072 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 42 Resp: 47222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.0 | 33.8 | 50.6 |
| 71 | 39.6 | 31.5 | 47.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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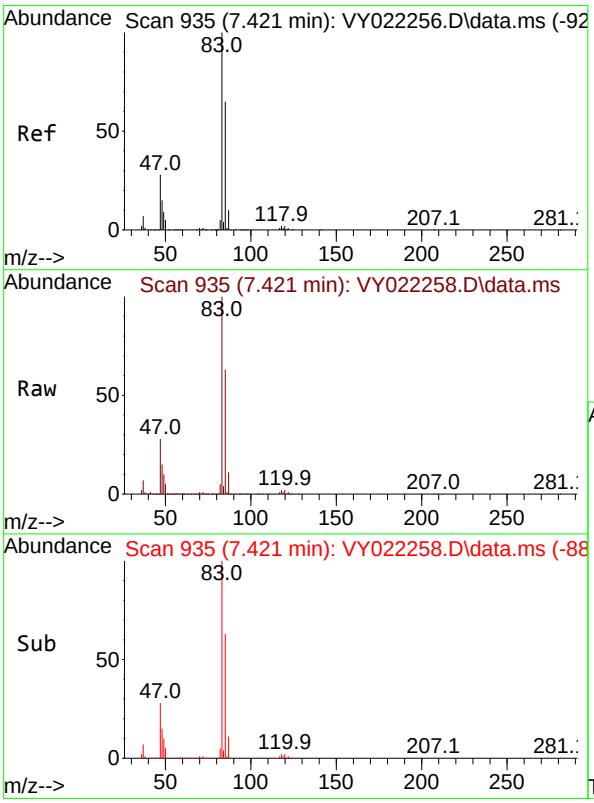
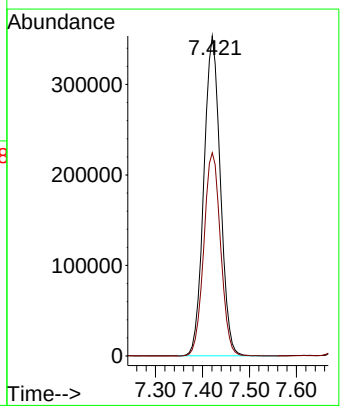
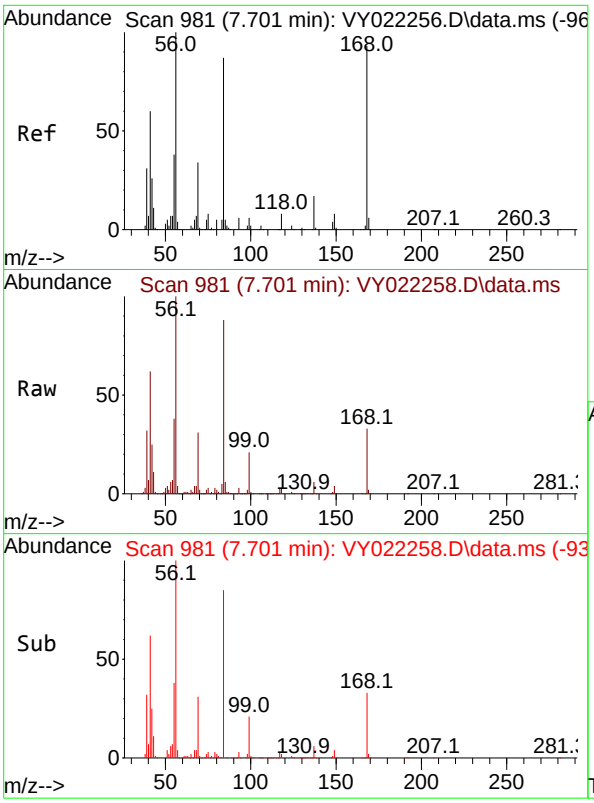



#30
Chloroform
Concen: 149.381 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 83 Resp: 859317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.5 | 51.8 | 77.8 |

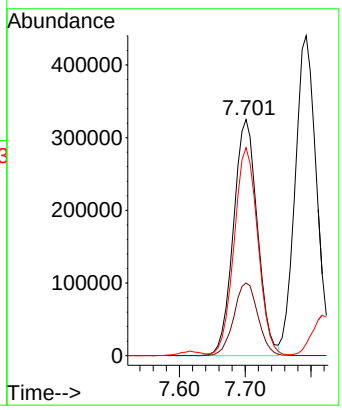





#31
Cyclohexane
Concen: 137.144 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 56 Resp: 82178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 30.7 | 27.4 | 41.2 |
| 84 | 87.3 | 70.0 | 105.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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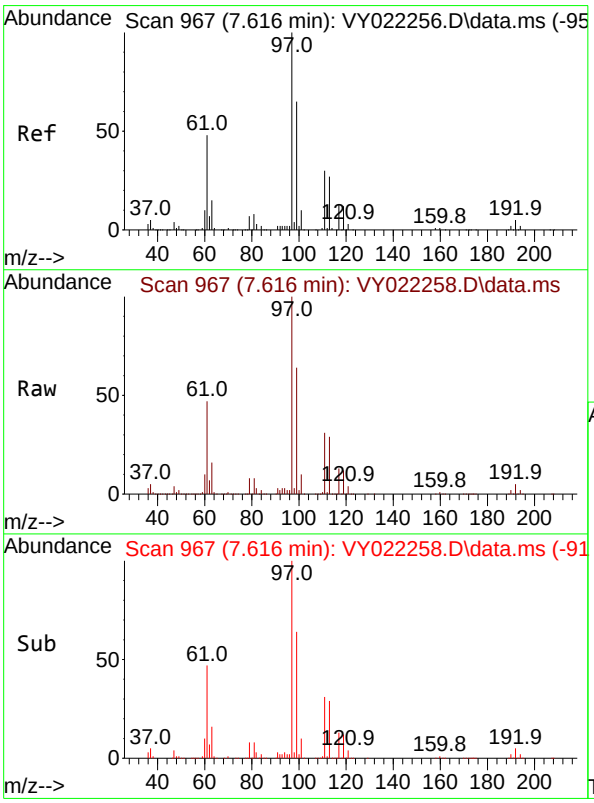
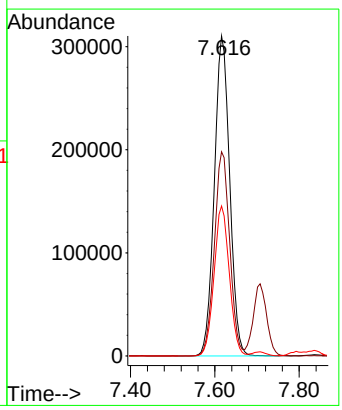
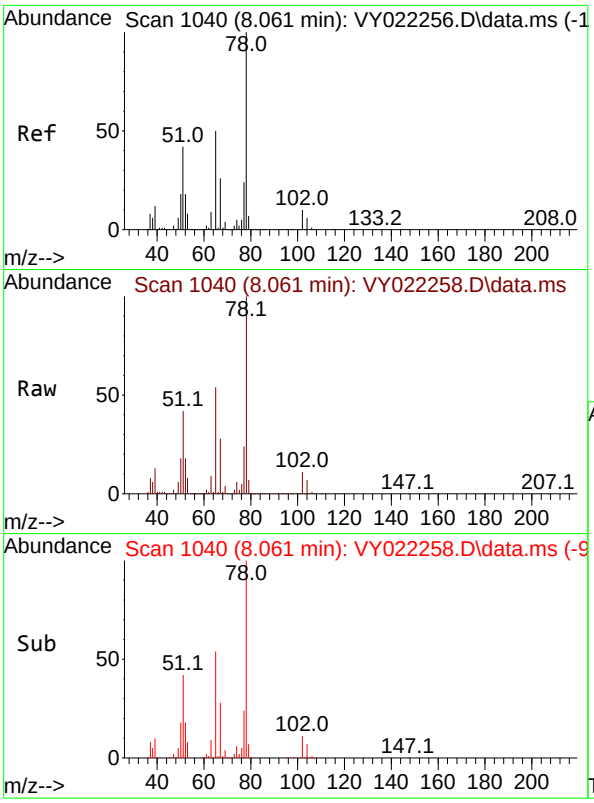



#32
1,1,1-Trichloroethane
Concen: 148.554 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 97 Resp: 784014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.0 | 51.4 | 77.0 |
| 61 | 46.7 | 38.1 | 57.1 |

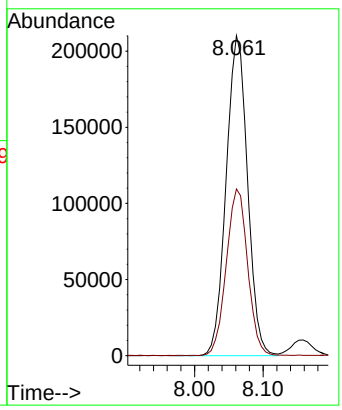





#33
1,2-Dichloroethane-d4
Concen: 153.739 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 65 Resp: 45538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.0 | 0.0 | 104.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
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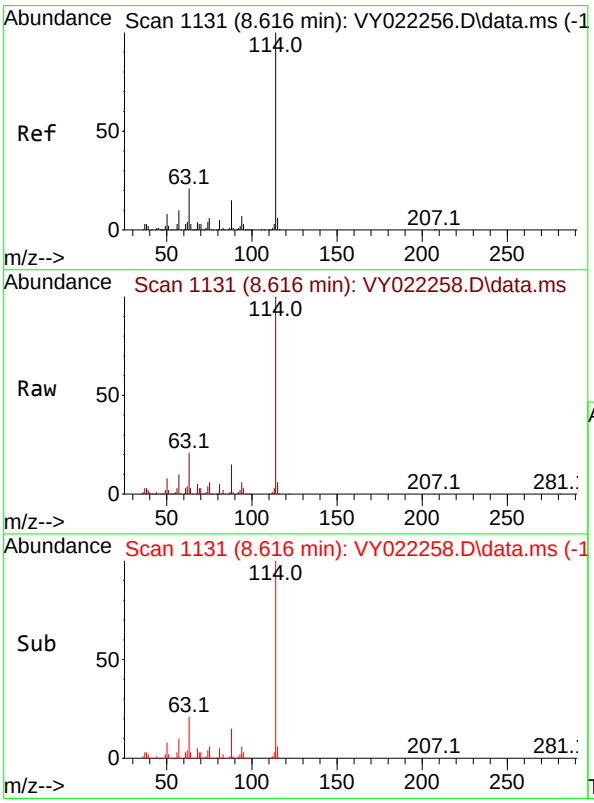
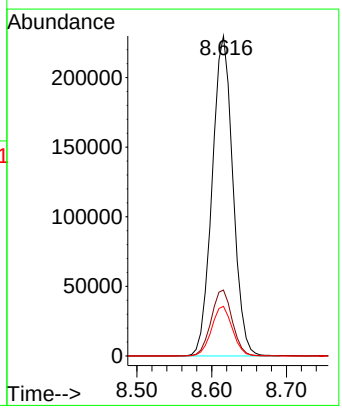
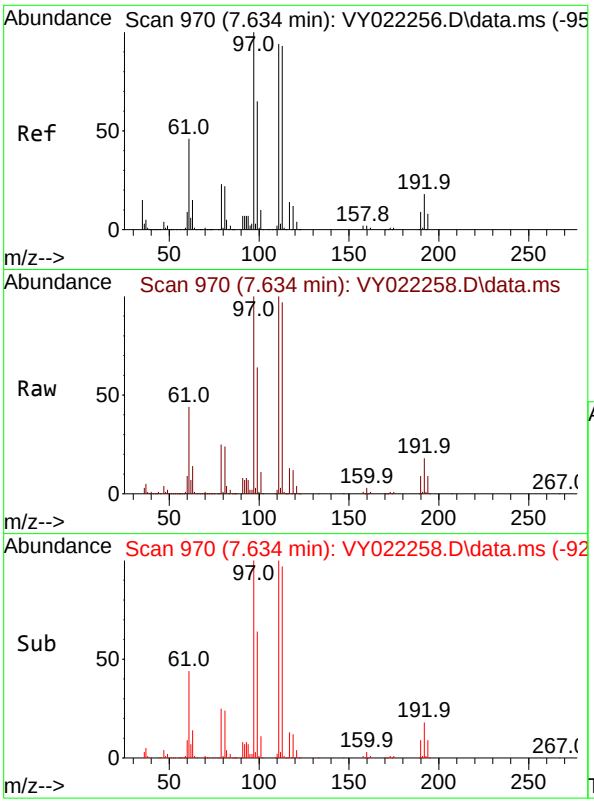



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:114 Resp: 442917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.6 | 0.0 | 41.0 |
| 88 | 15.5 | 0.0 | 29.4 |

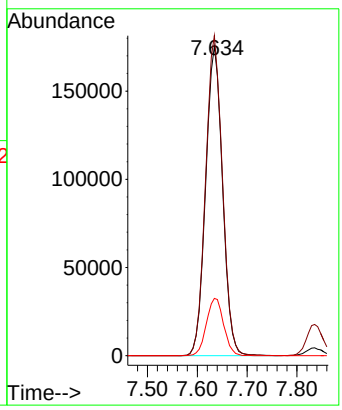





#35
Dibromofluoromethane
Concen: 155.969 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:113 Resp: 41231

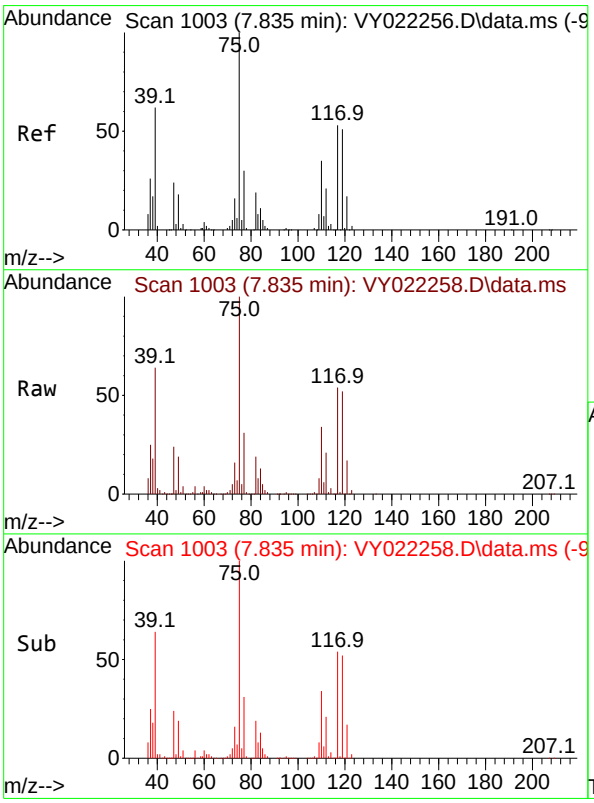
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 82.6 | 123.8 |
| 192 | 18.9 | 15.2 | 22.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

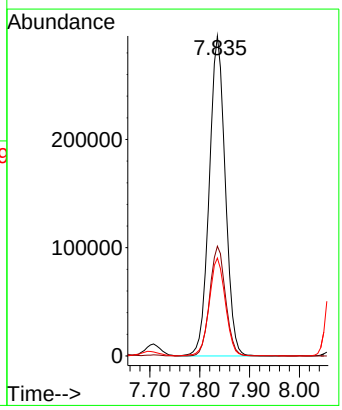
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

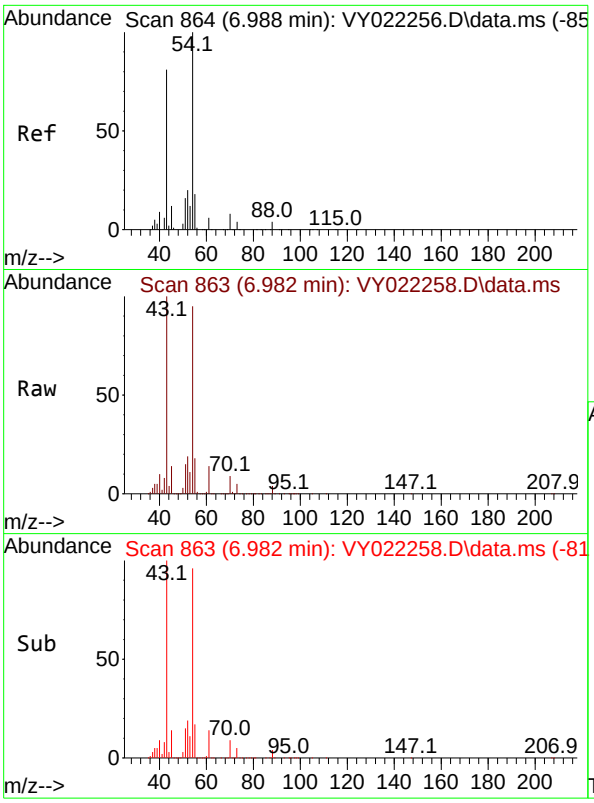



#36
1,1-Dichloropropene
Concen: 151.316 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 75 Resp: 658871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.9 | 16.6 | 49.8 |
| 77 | 30.7 | 24.6 | 37.0 |

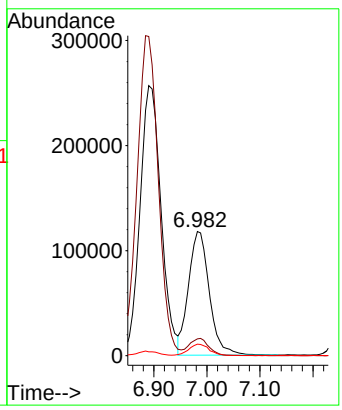





#37
Ethyl Acetate
Concen: 153.067 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 32068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.3 | 10.2 | 15.2 |
| 70 | 9.3 | 7.6 | 11.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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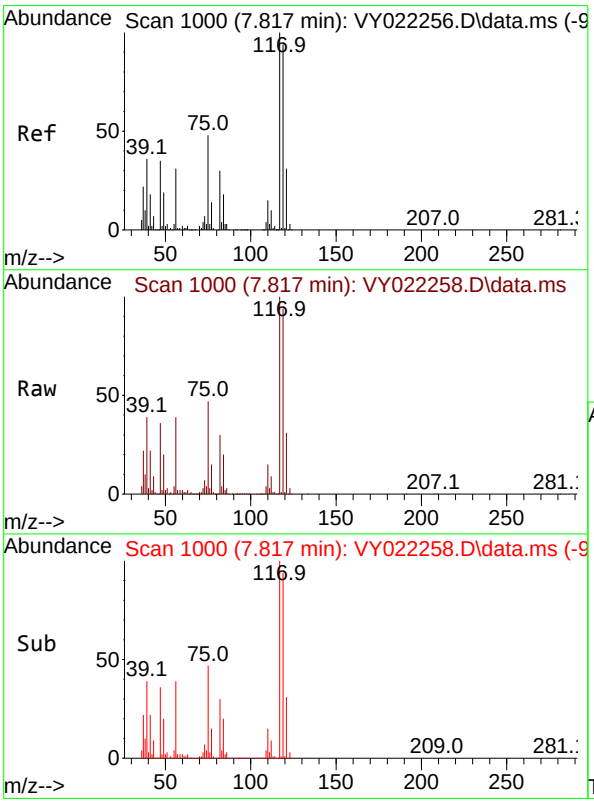
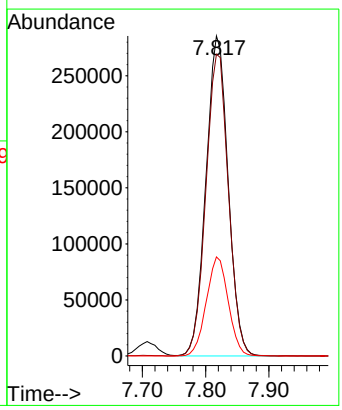
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

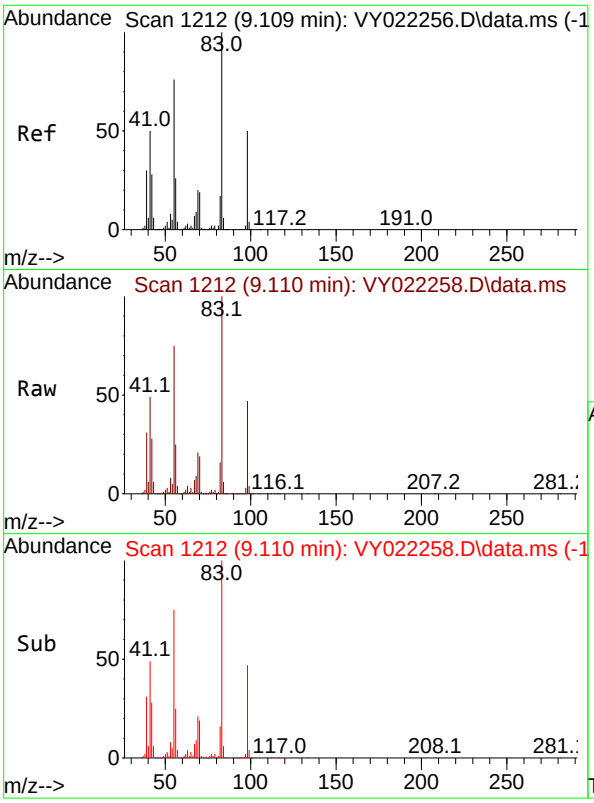



#38
Carbon Tetrachloride
Concen: 154.450 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:117 Resp: 696139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.3 | 75.3 | 112.9 |
| 121 | 30.9 | 24.7 | 37.1 |

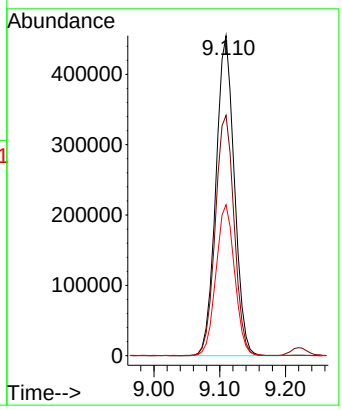





#39
Methylcyclohexane
Concen: 151.510 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 83 Resp: 88632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 75.1 | 60.6 | 90.8 |
| 98 | 47.2 | 40.0 | 60.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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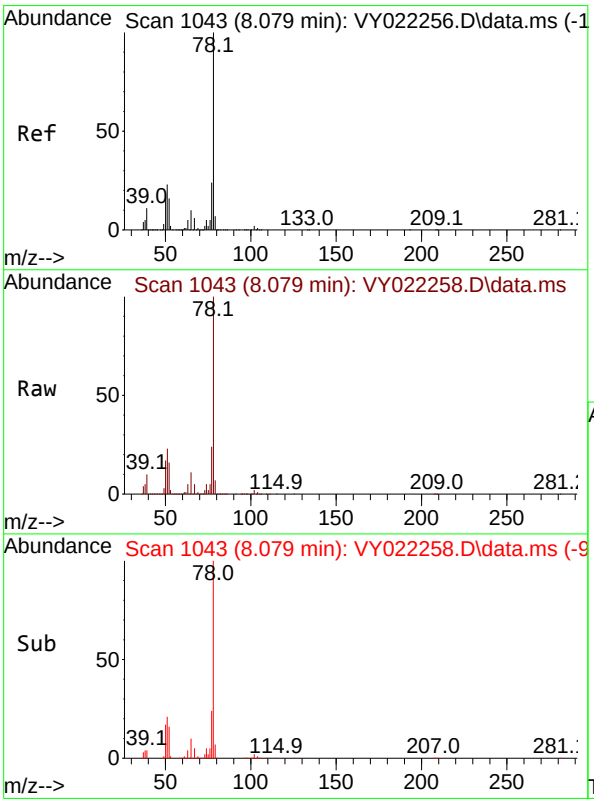
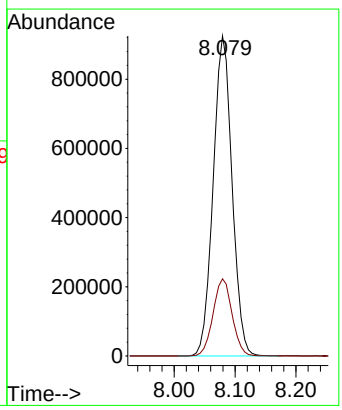
Supervised By :Semsettin Yesilyurt 05/16/2025

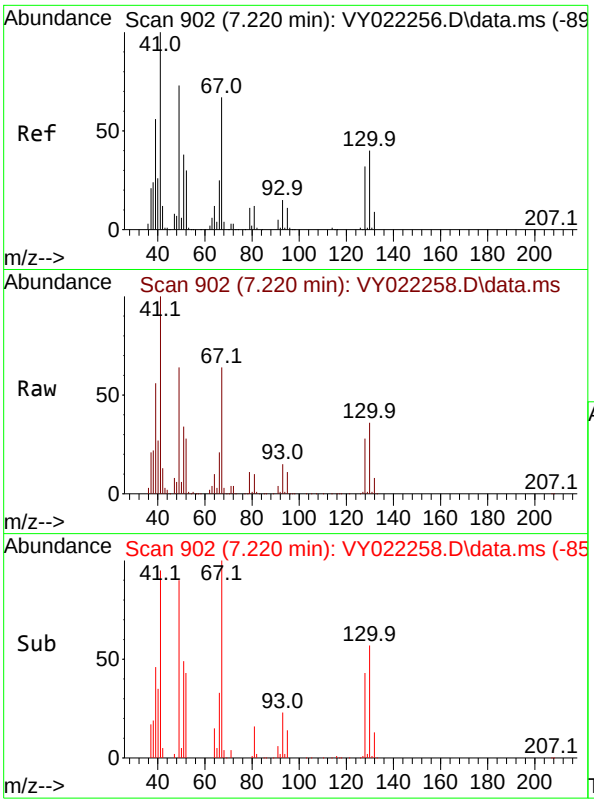



#40
Benzene
Concen: 153.973 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 78 Resp: 1987535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.1 | 18.9 | 28.3 |

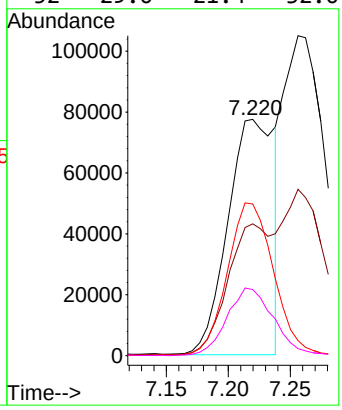





#41
Methacrylonitrile
Concen: 132.161 ug/l m
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 41 Resp: 20260

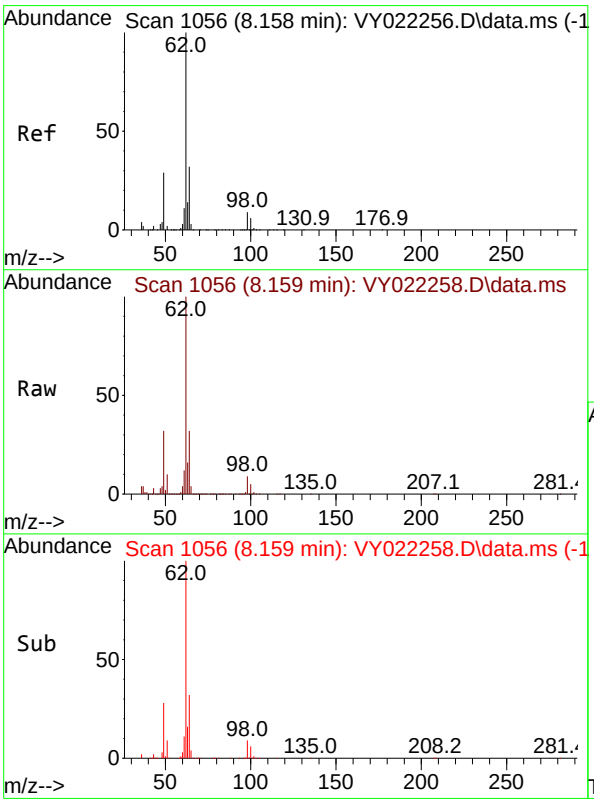
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 47.7 | 39.1 | 58.7 |
| 67 | 64.4 | 47.1 | 70.7 |
| 52 | 29.0 | 21.4 | 32.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

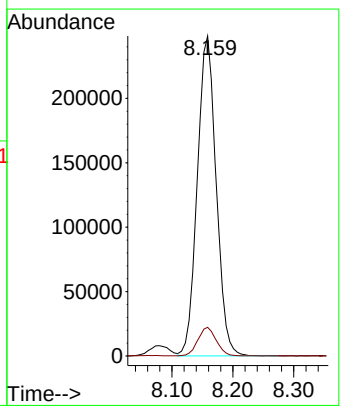
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

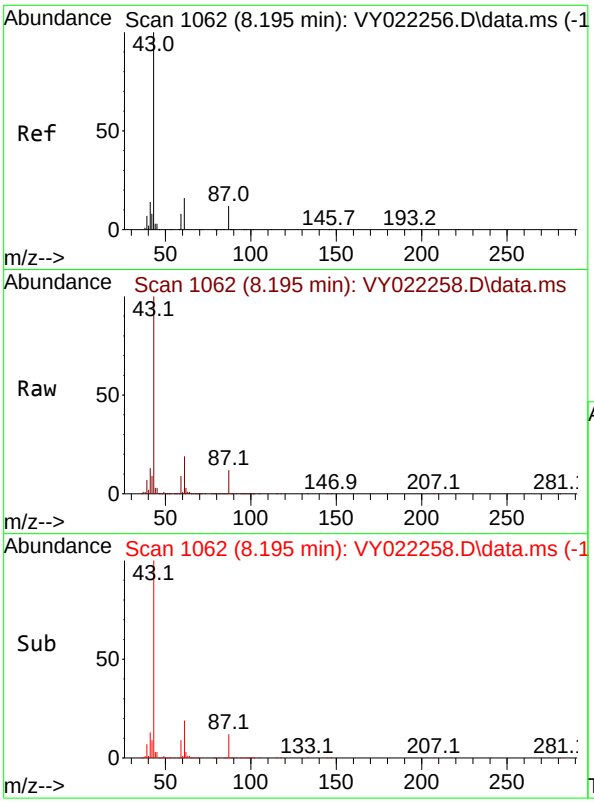



#42
1,2-Dichloroethane
Concen: 153.124 ug/l
RT: 8.159 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 62 Resp: 534517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.7 | 0.0 | 18.4 |

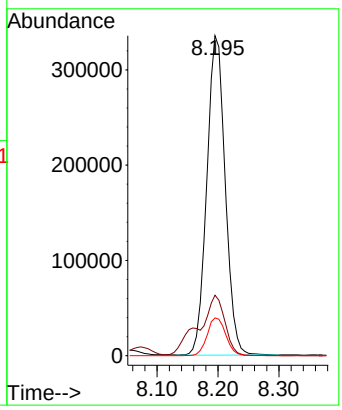





#43
Isopropyl Acetate
Concen: 154.159 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 70436

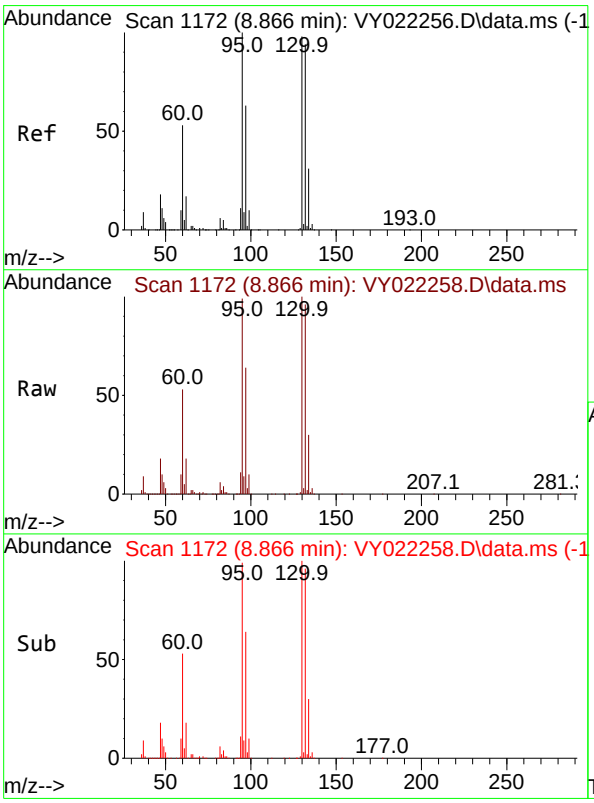
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 27.0 | 15.1 | 22.7# |
| 87 | 12.0 | 9.7 | 14.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

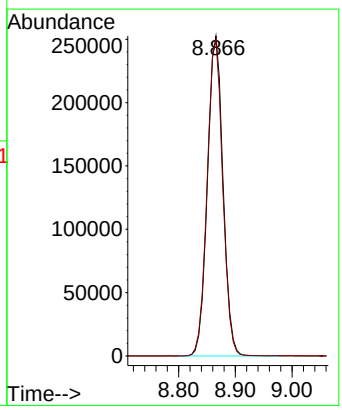
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

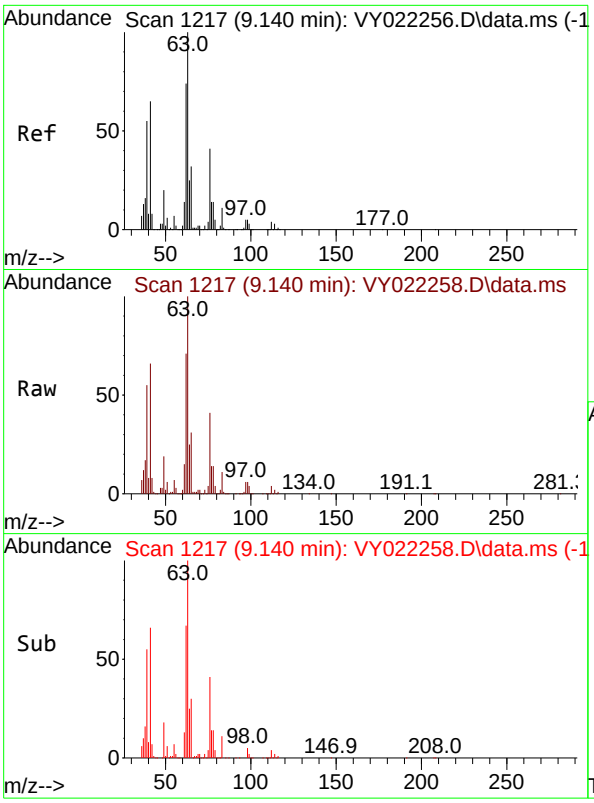



#44
Trichloroethene
Concen: 150.171 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:130 Resp: 481990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.7 | 0.0 | 204.8 |

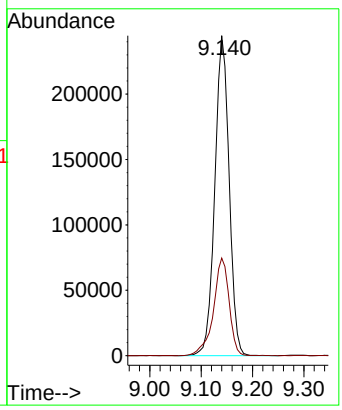





#45
1,2-Dichloropropane
Concen: 151.736 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 63 Resp: 47221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.5 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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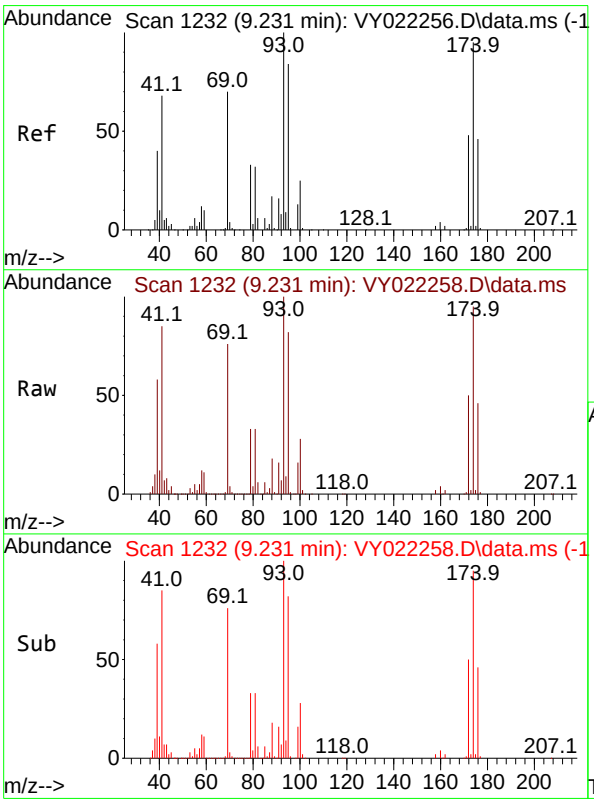
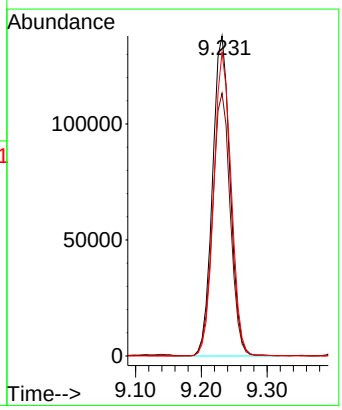
Supervised By :Semsettin Yesilyurt 05/16/2025

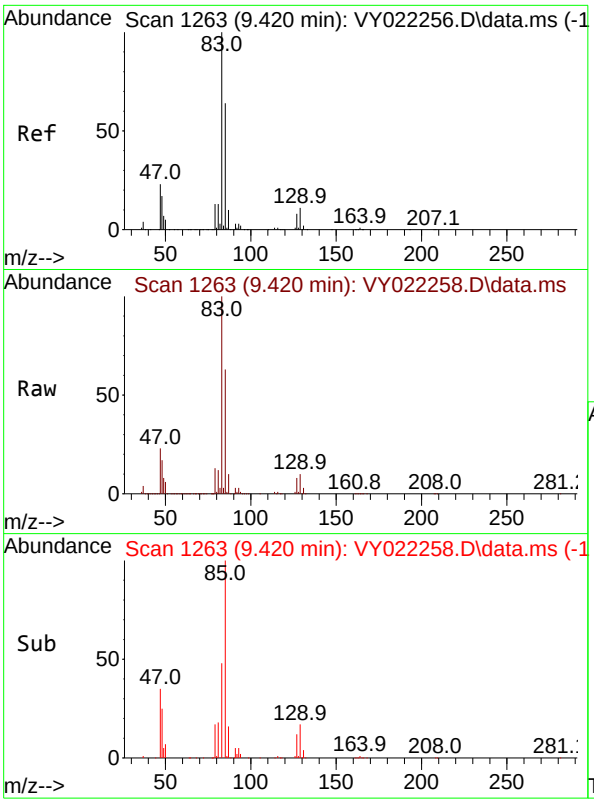



#46
Dibromomethane
Concen: 153.757 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 93 Resp: 258087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.1 | 65.2 | 97.8 |
| 174 | 93.5 | 74.3 | 111.5 |

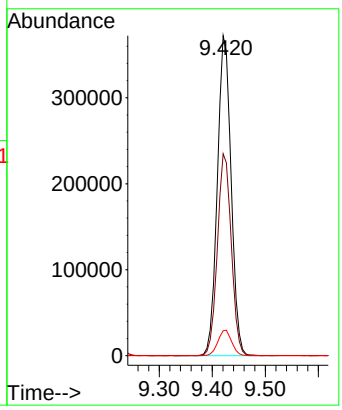





#47
Bromodichloromethane
Concen: 153.824 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 83 Resp: 66983

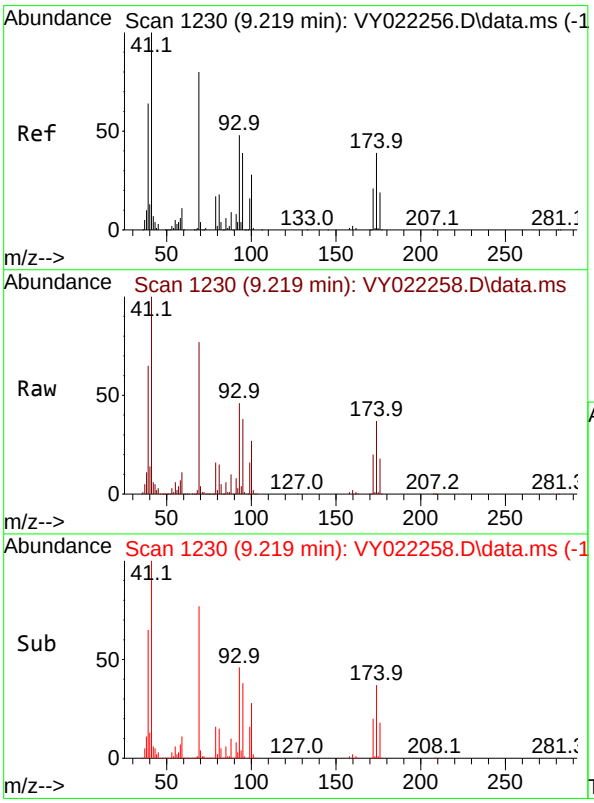
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.1 | 51.1 | 76.7 |
| 127 | 7.8 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

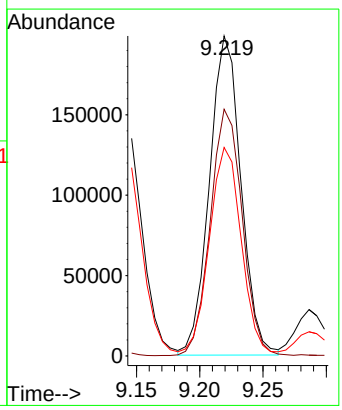
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

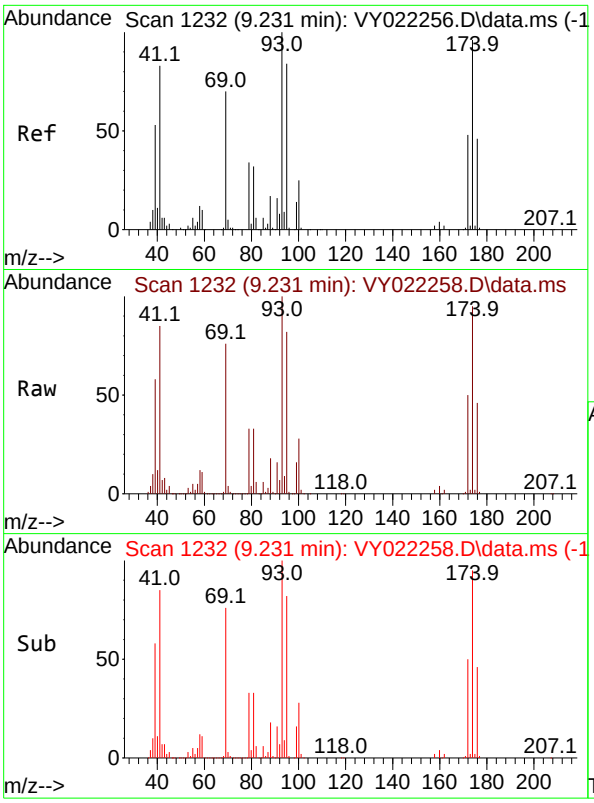



#48
Methyl methacrylate
Concen: 161.060 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 41 Resp: 344147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 78.5 | 63.5 | 95.3 |
| 39 | 64.1 | 50.8 | 76.2 |

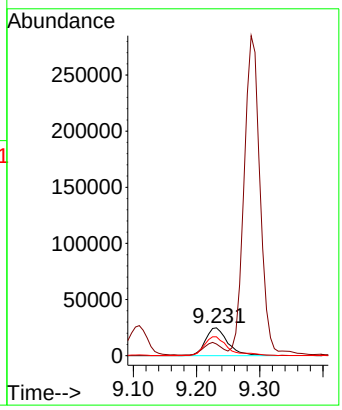





#49
1,4-Dioxane
Concen: 3217.888 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 88 Resp: 6101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 36.9 | 28.5 | 42.7 |
| 58 | 71.3 | 61.4 | 92.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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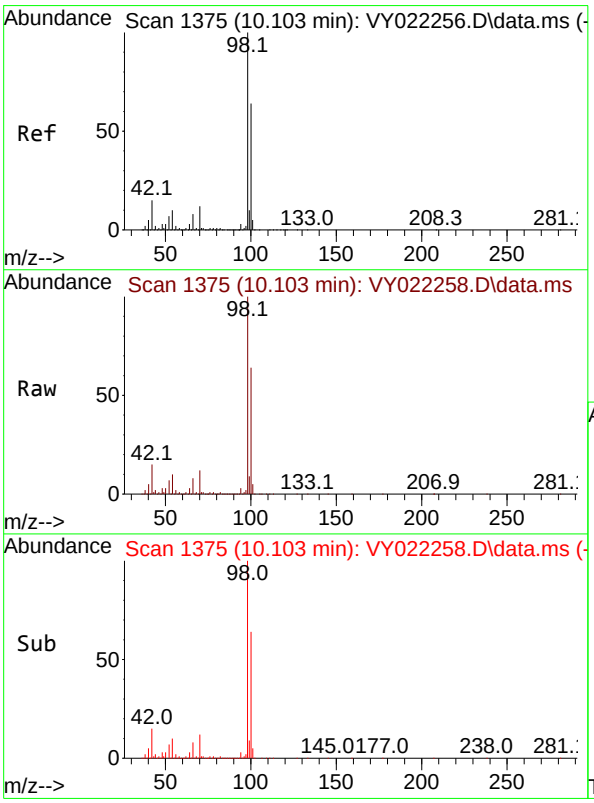
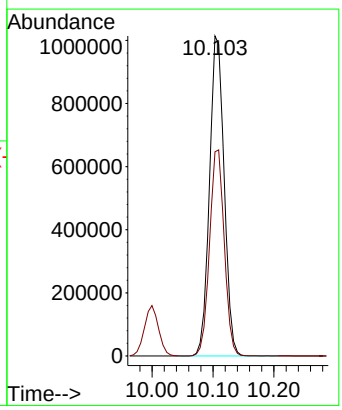
Supervised By :Semsettin Yesilyurt 05/16/2025

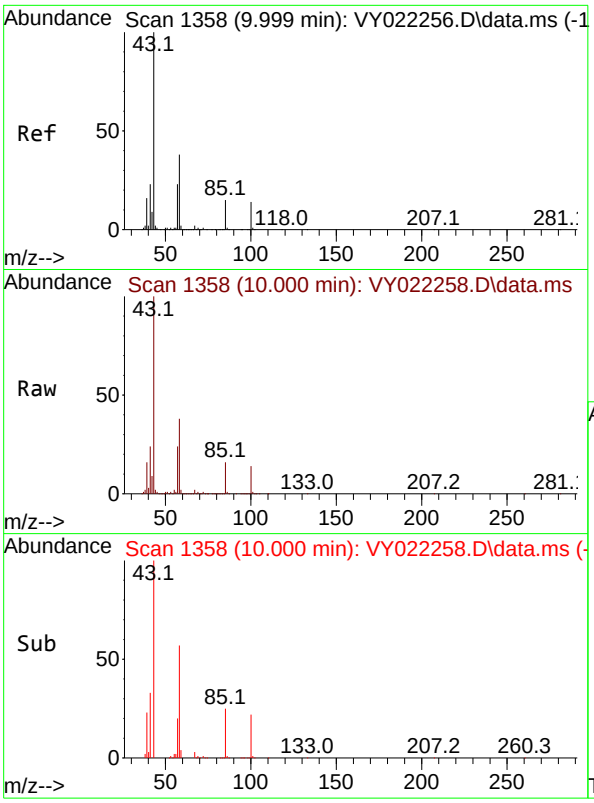



#50
Toluene-d8
Concen: 156.065 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 98 Resp: 1689714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 51.8 | 77.8 |

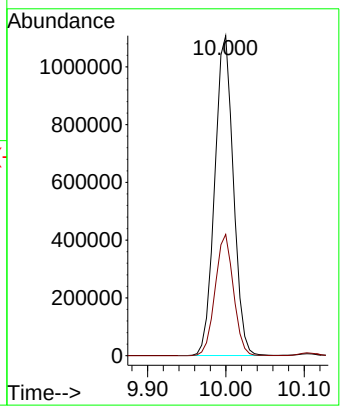





#51
4-Methyl-2-Pentanone
Concen: 815.822 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 182901

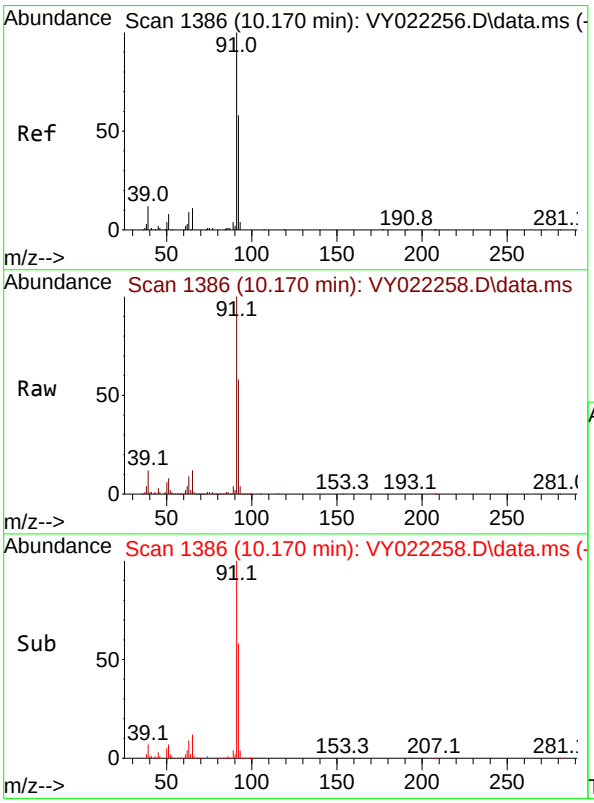
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.3 | 29.4 | 44.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

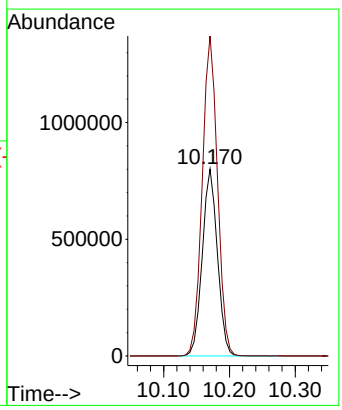
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

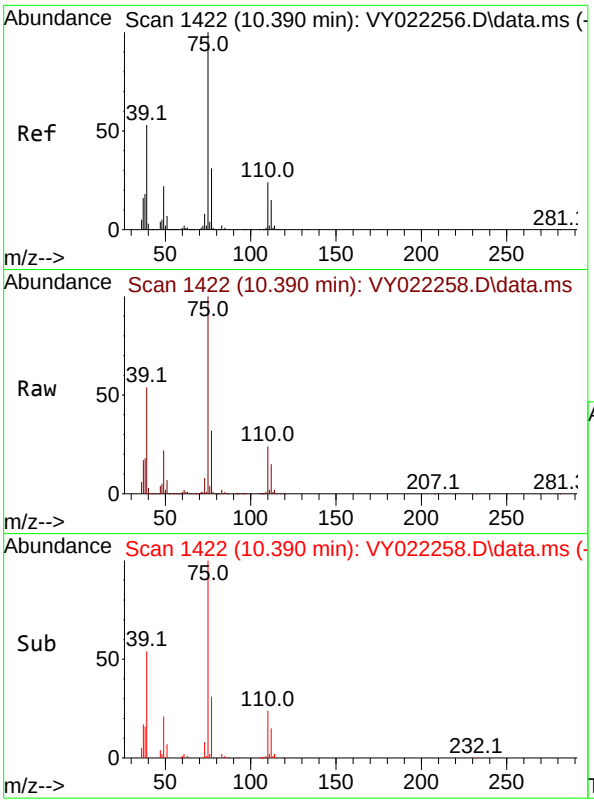



#52
Toluene
Concen: 156.216 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 92 Resp: 1276917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.1 | 139.1 | 208.7 |

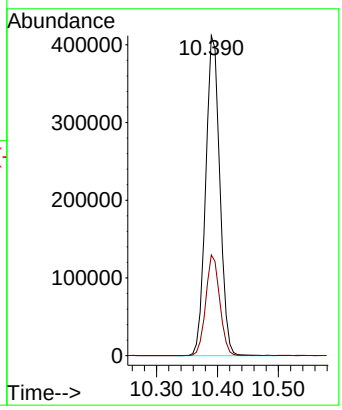





#53
t-1,3-Dichloropropene
Concen: 156.134 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 75 Resp: 66351

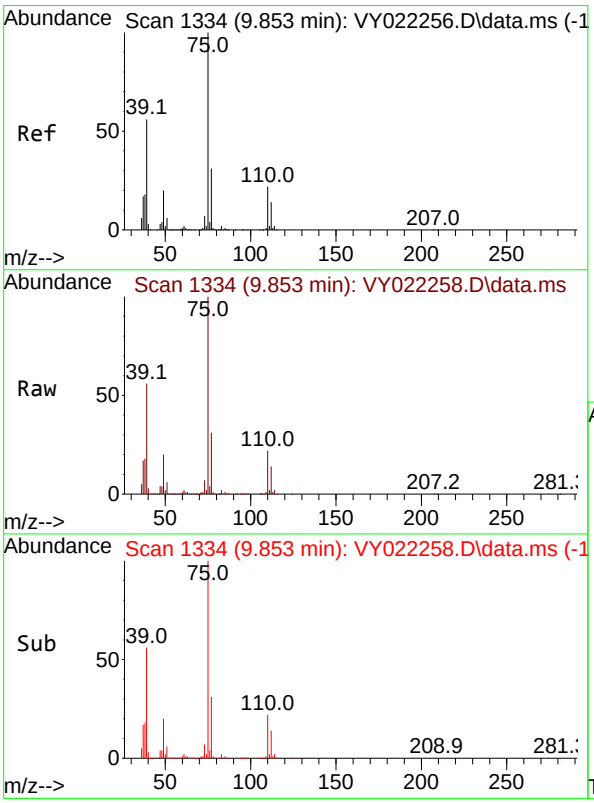
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.5 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

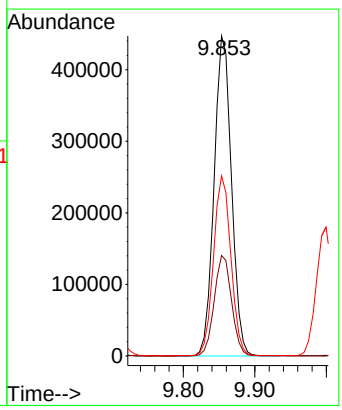
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

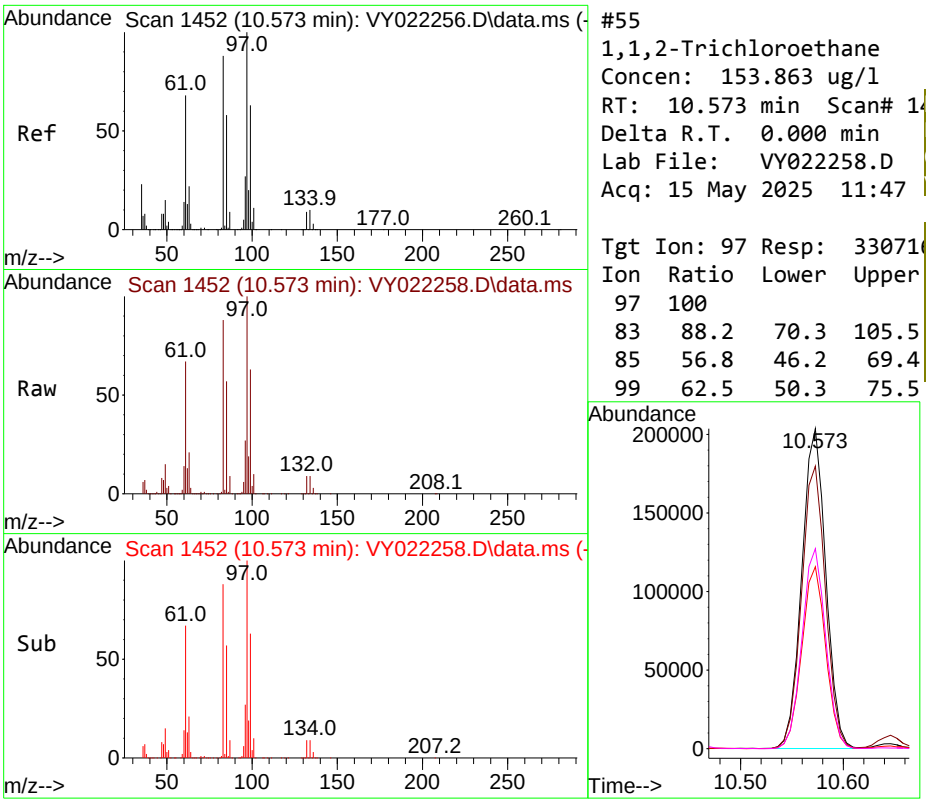



#54
cis-1,3-Dichloropropene
Concen: 154.963 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 75 Resp: 754493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.1 | 37.7 |
| 39 | 56.2 | 44.5 | 66.7 |






#55
1,1,2-Trichloroethane
Concen: 153.863 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 97 Resp: 33071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.2 | 70.3 | 105.5 |
| 85 | 56.8 | 46.2 | 69.4 |
| 99 | 62.5 | 50.3 | 75.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

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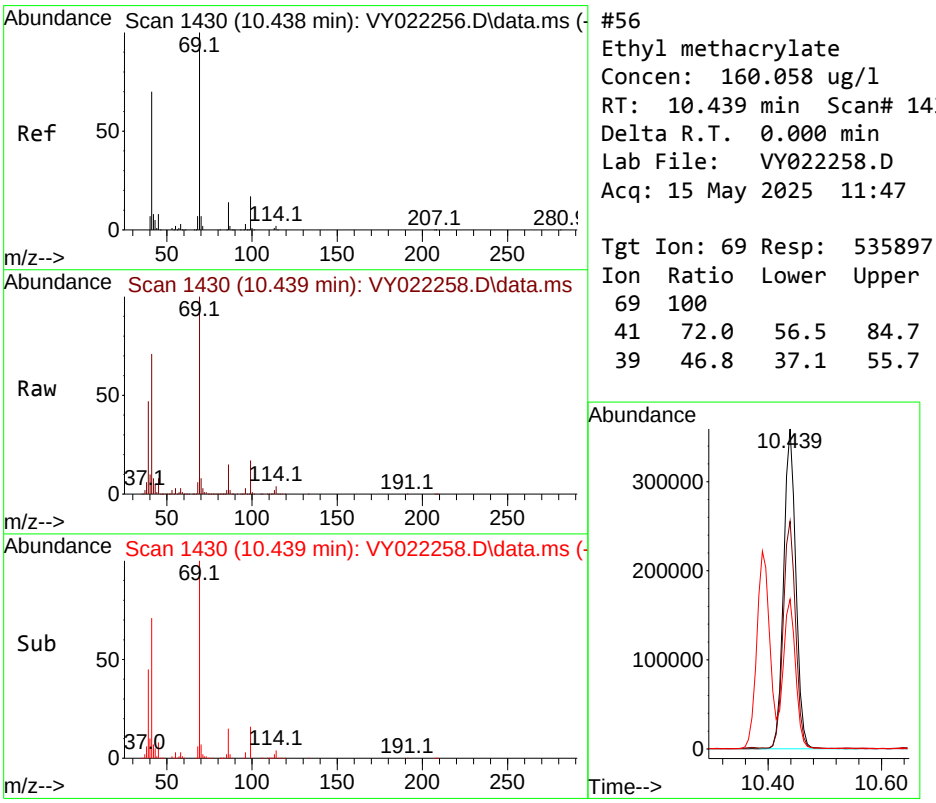
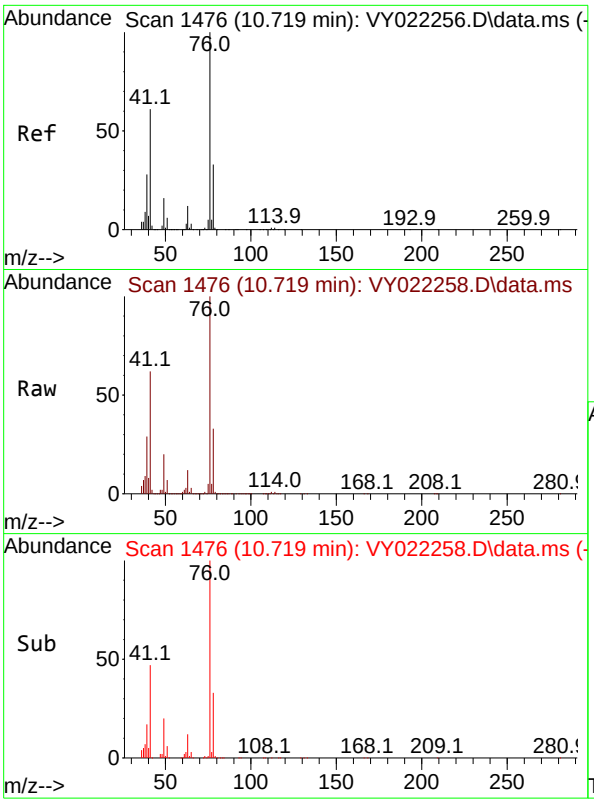



#56
Ethyl methacrylate
Concen: 160.058 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 69 Resp: 535897

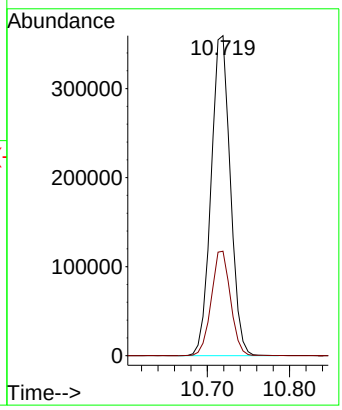
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 72.0 | 56.5 | 84.7 |
| 39 | 46.8 | 37.1 | 55.7 |




#57
1,3-Dichloropropane
Concen: 152.987 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 76 Resp: 58425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 25.8 | 38.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
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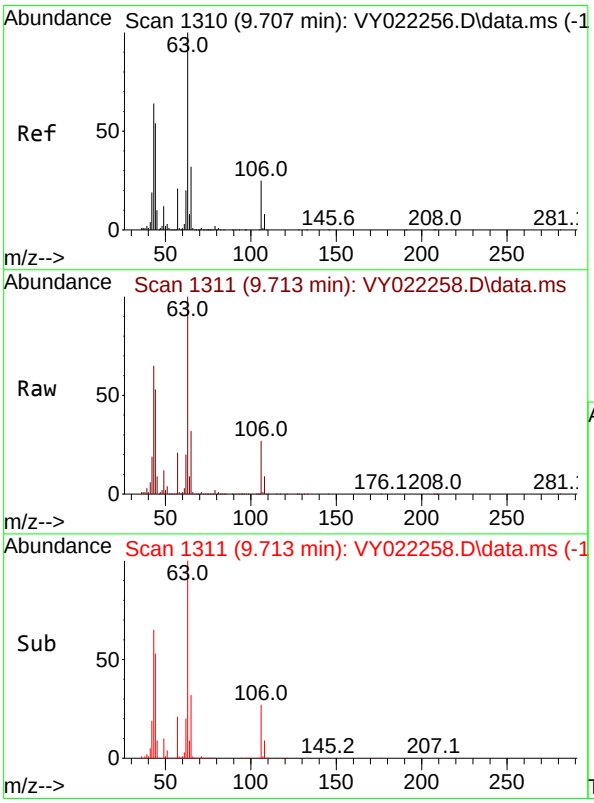
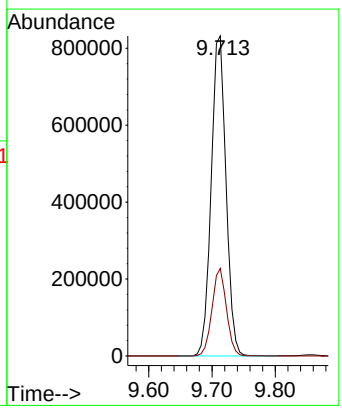
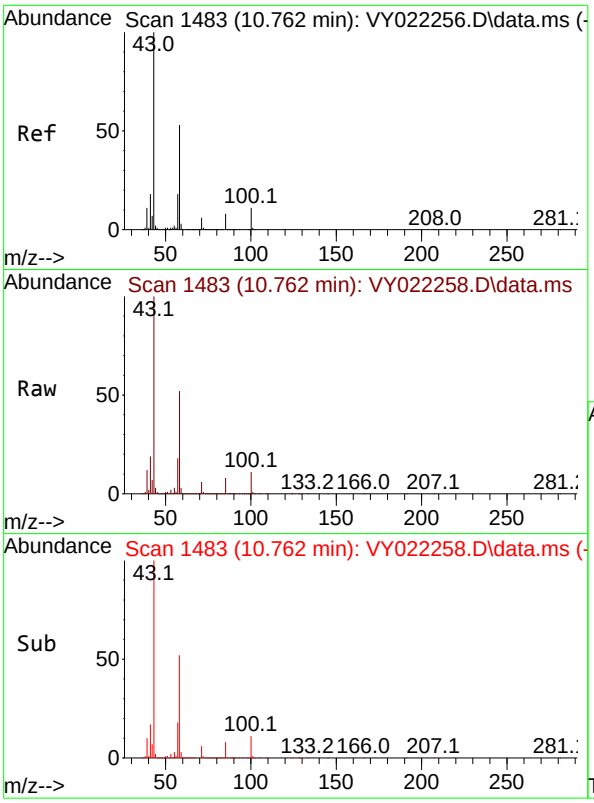



#58
2-Chloroethyl Vinyl ether
Concen: 898.675 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 63 Resp: 1350536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.6 | 21.0 | 31.4 |

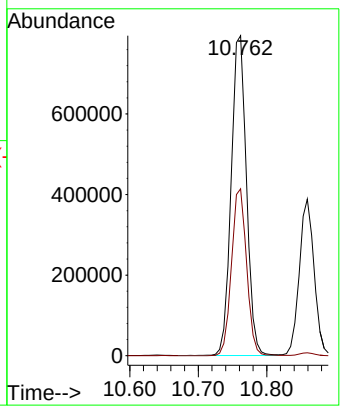





#59
2-Hexanone
Concen: 816.860 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 122788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 51.7 | 26.1 | 78.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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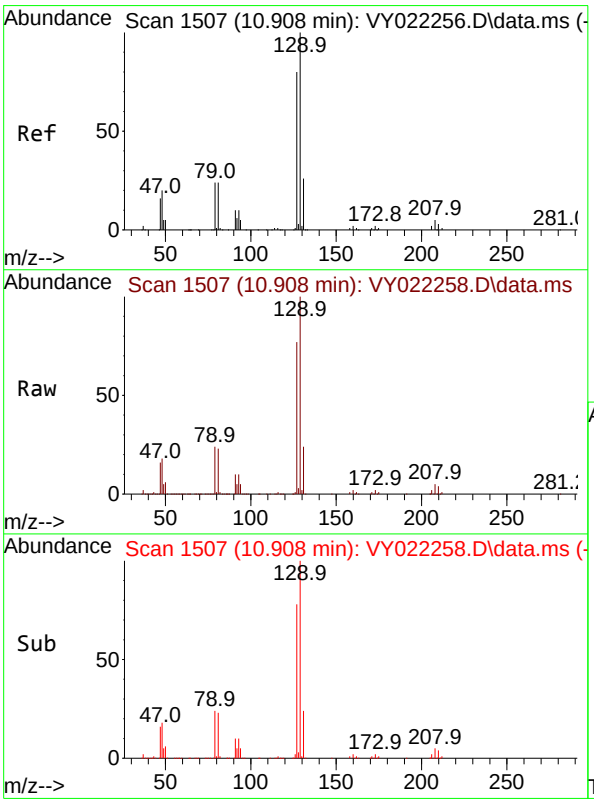
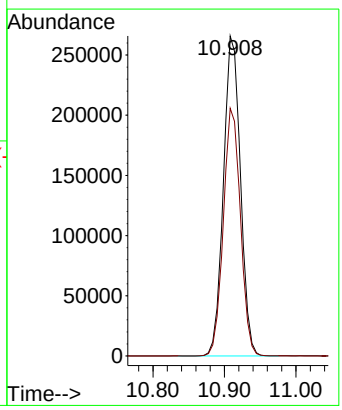
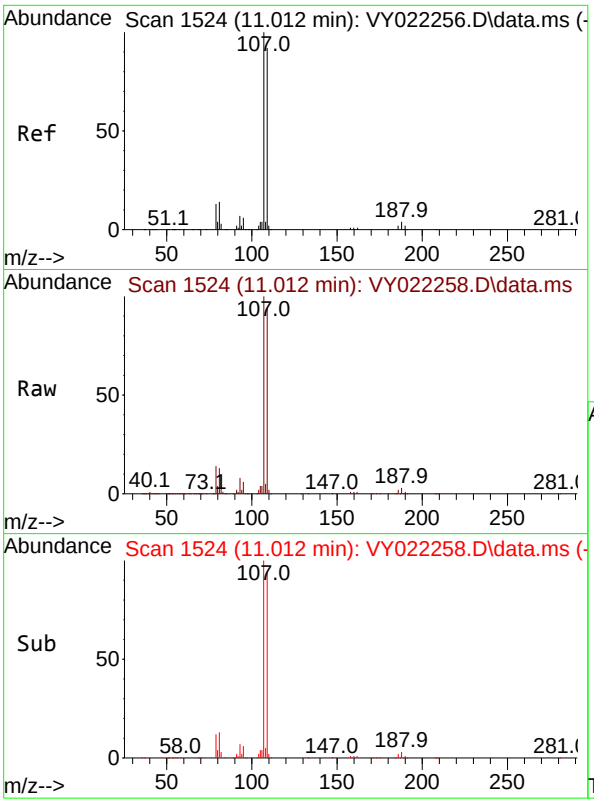



#60
Dibromochloromethane
Concen: 157.237 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:129 Resp: 438666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.9 | 38.6 | 115.7 |

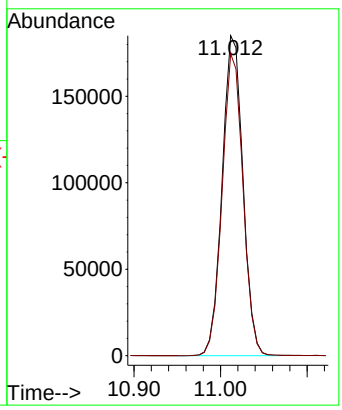





#61
1,2-Dibromoethane
Concen: 154.008 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:107 Resp: 30852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.4 | 74.6 | 111.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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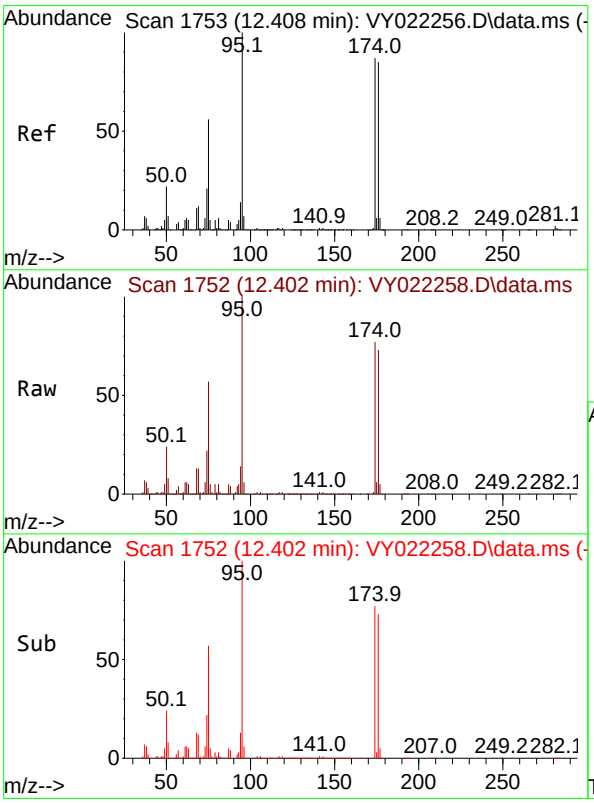
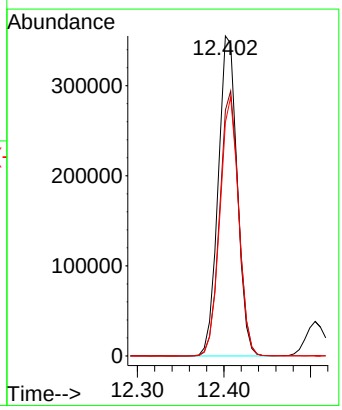
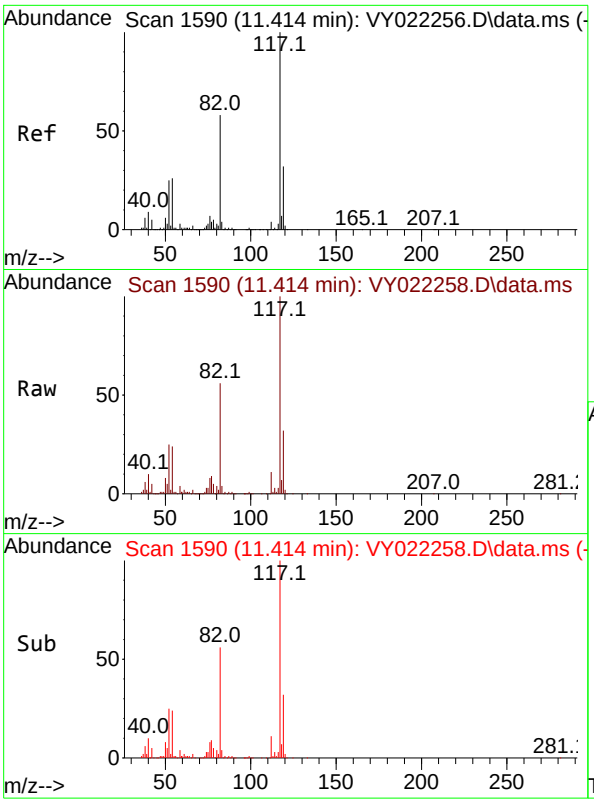



#62
4-Bromofluorobenzene
Concen: 157.751 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 95 Resp: 541367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 82.5 | 0.0 | 166.8 |
| 176 | 79.8 | 0.0 | 160.8 |

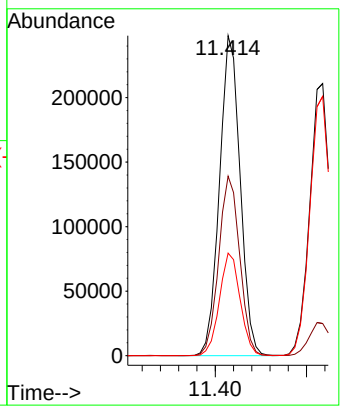





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:117 Resp: 38976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.0 | 46.6 | 70.0 |
| 119 | 32.0 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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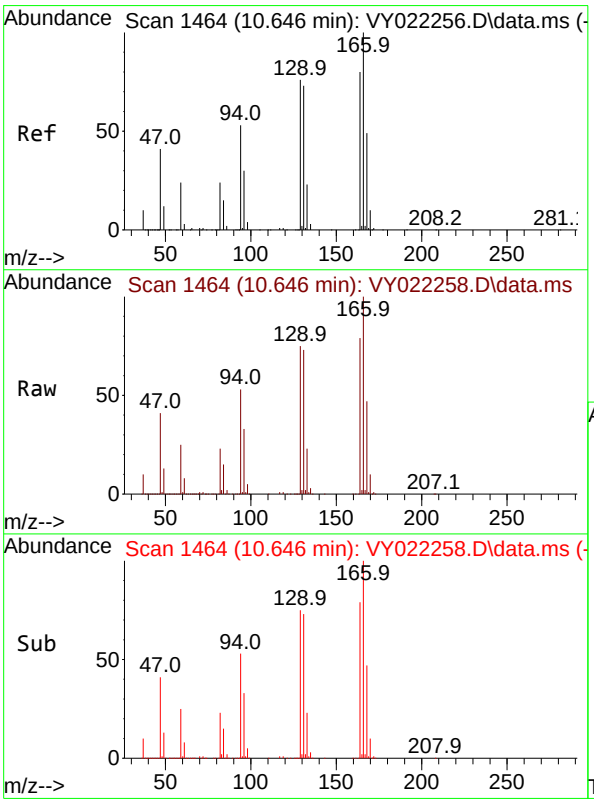
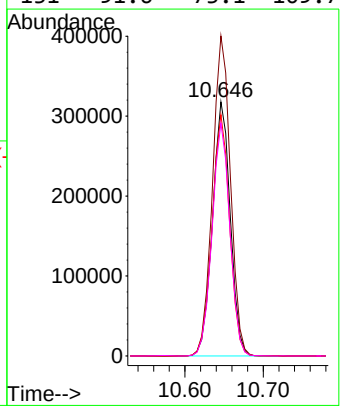
Supervised By :Semsettin Yesilyurt 05/16/2025

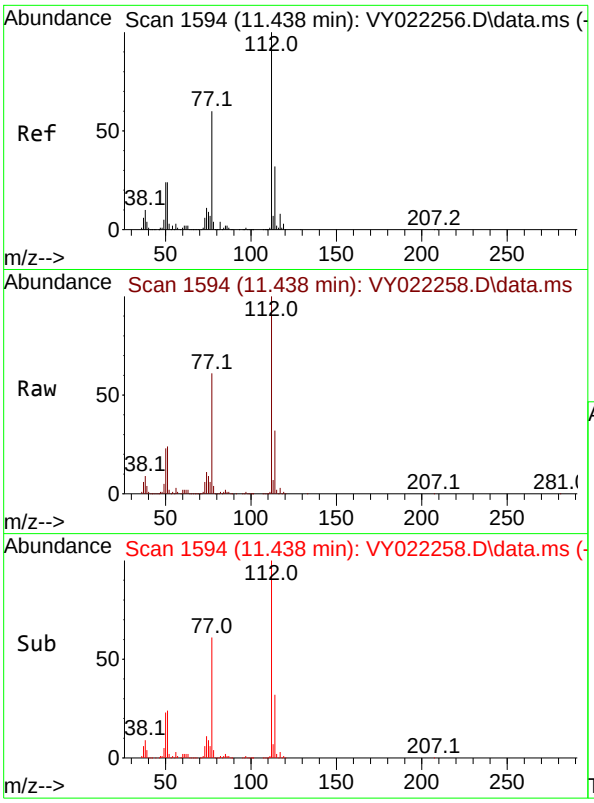



#64
Tetrachloroethene
Concen: 139.237 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:164 Resp: 501627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 125.9 | 100.4 | 150.6 |
| 129 | 94.9 | 76.4 | 114.6 |
| 131 | 91.6 | 73.1 | 109.7 |

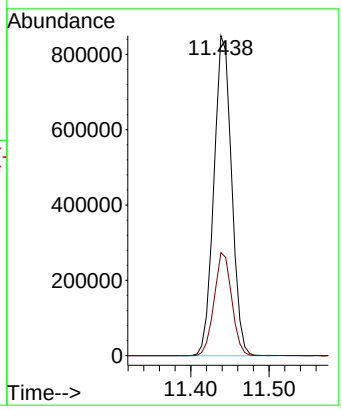





#65
Chlorobenzene
Concen: 151.997 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:112 Resp: 133659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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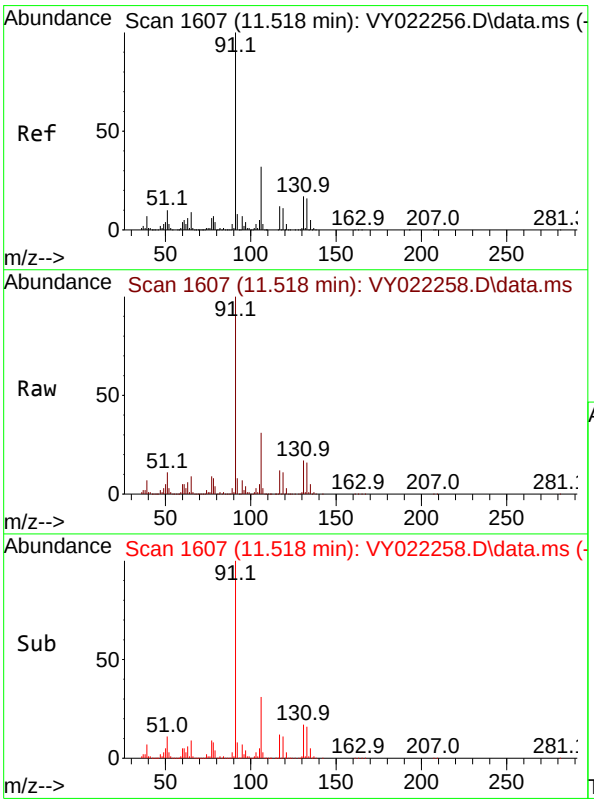
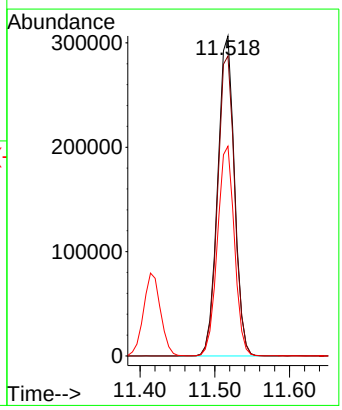
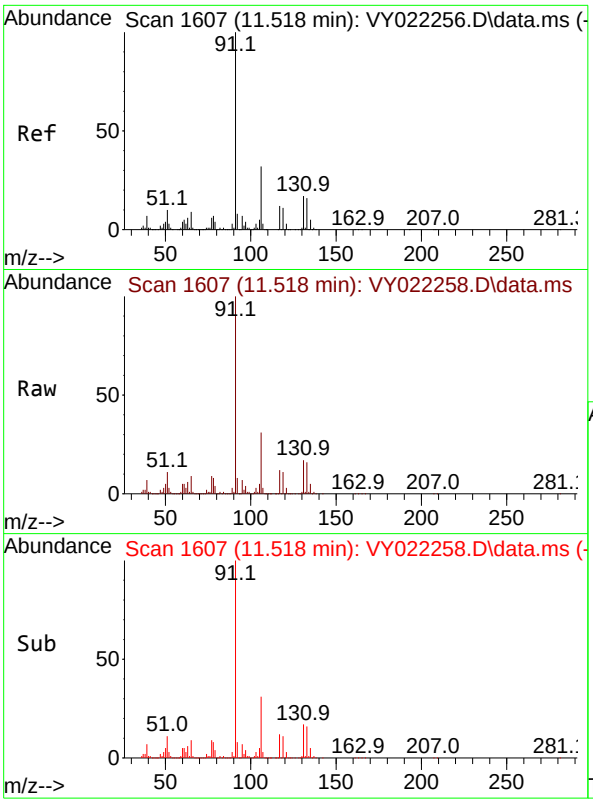



#66
1,1,1,2-Tetrachloroethane
Concen: 158.952 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:131 Resp: 480525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.2 | 47.3 | 141.9 |
| 119 | 66.2 | 33.1 | 99.2 |

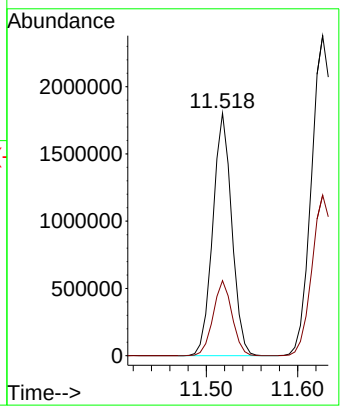





#67
Ethyl Benzene
Concen: 157.756 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 91 Resp: 259802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.9 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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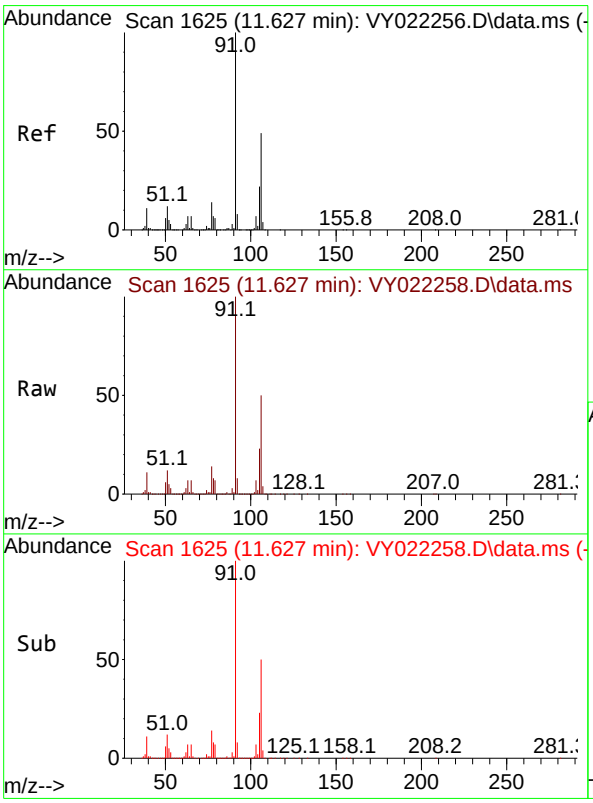
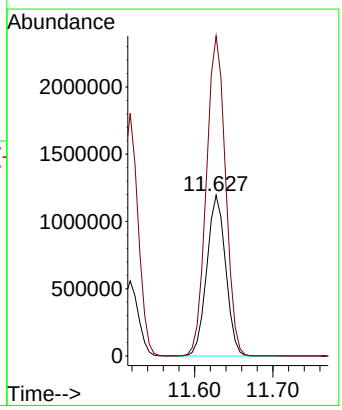
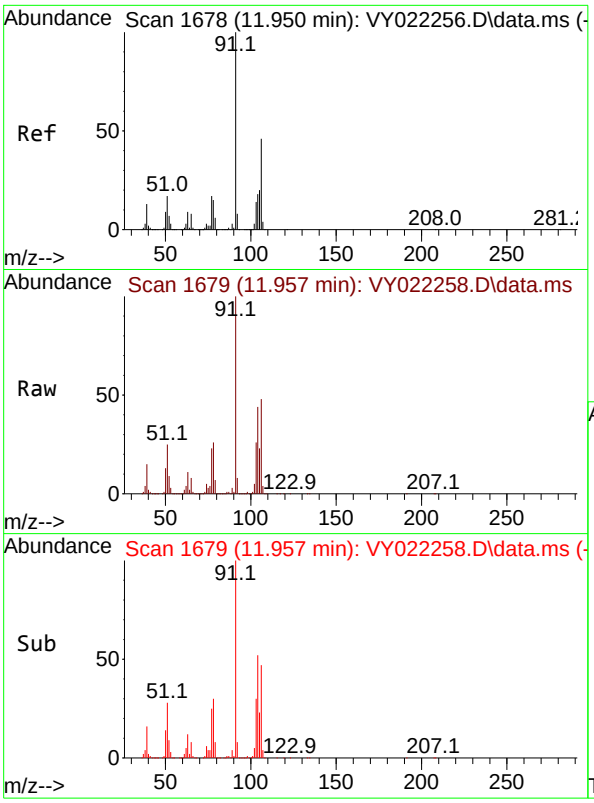



#68
m/p-Xylenes
Concen: 321.066 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:106 Resp: 1992413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.7 | 163.0 | 244.4 |

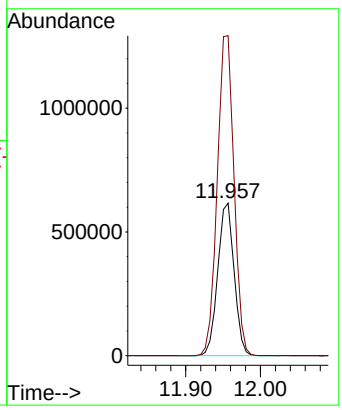





#69
o-Xylene
Concen: 159.714 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:106 Resp: 93772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 214.6 | 108.3 | 324.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

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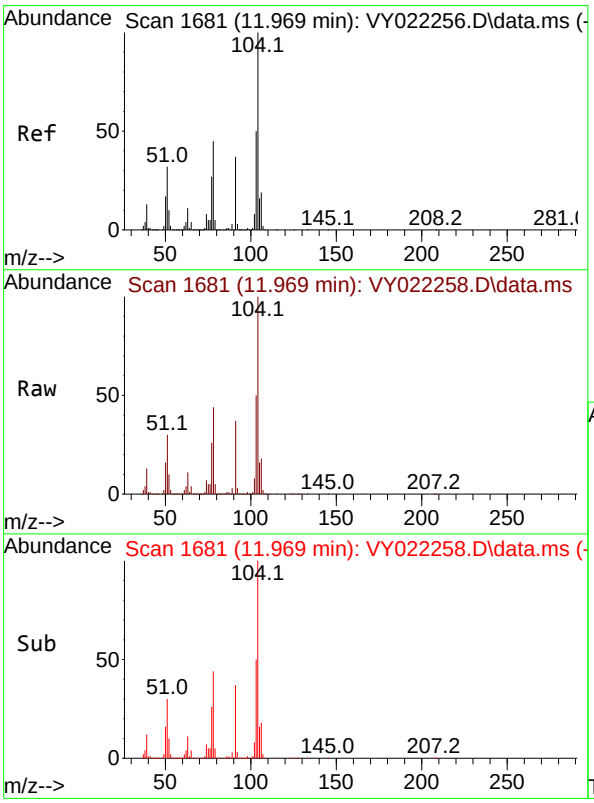
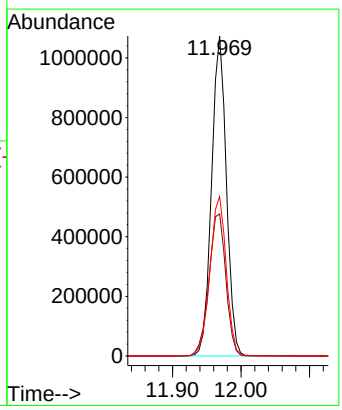
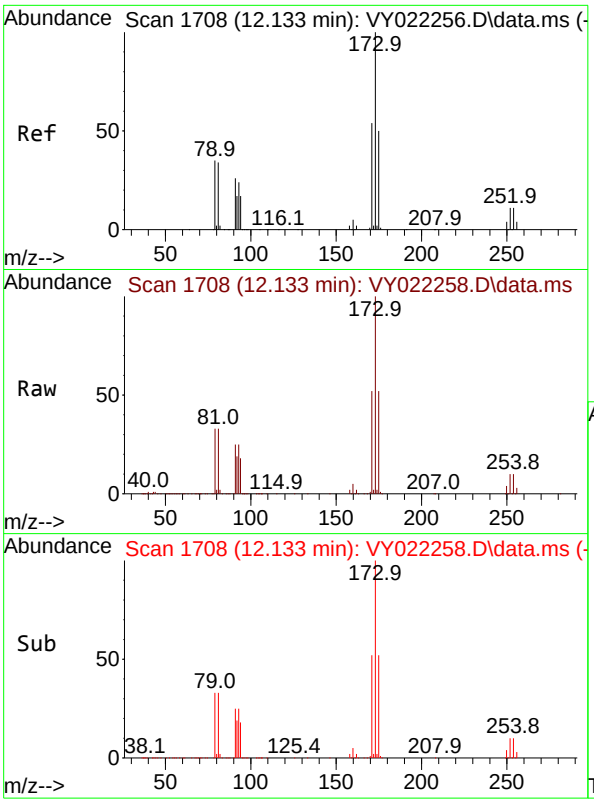



#70
Styrene
Concen: 162.944 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:104 Resp: 1613798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.8 | 40.9 | 61.3 |
| 103 | 54.7 | 43.7 | 65.5 |

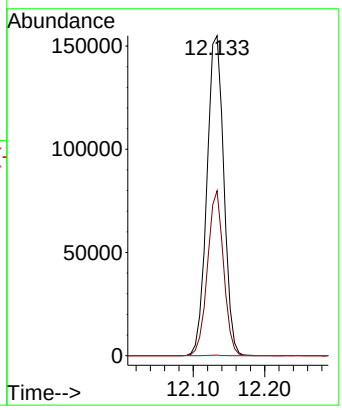





#71
Bromoform
Concen: 155.818 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:173 Resp: 25425

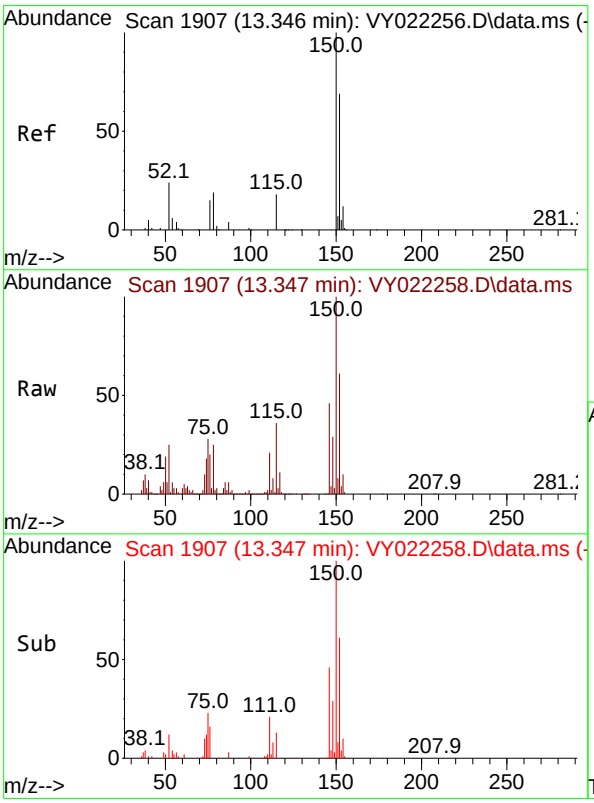
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.0 | 24.7 | 74.1 |
| 254 | 0.1 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

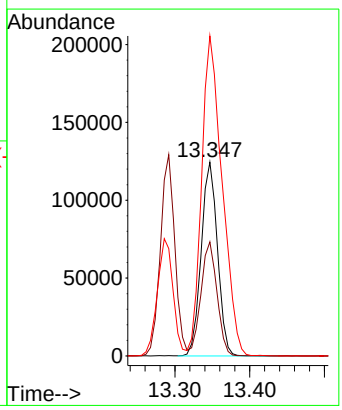
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

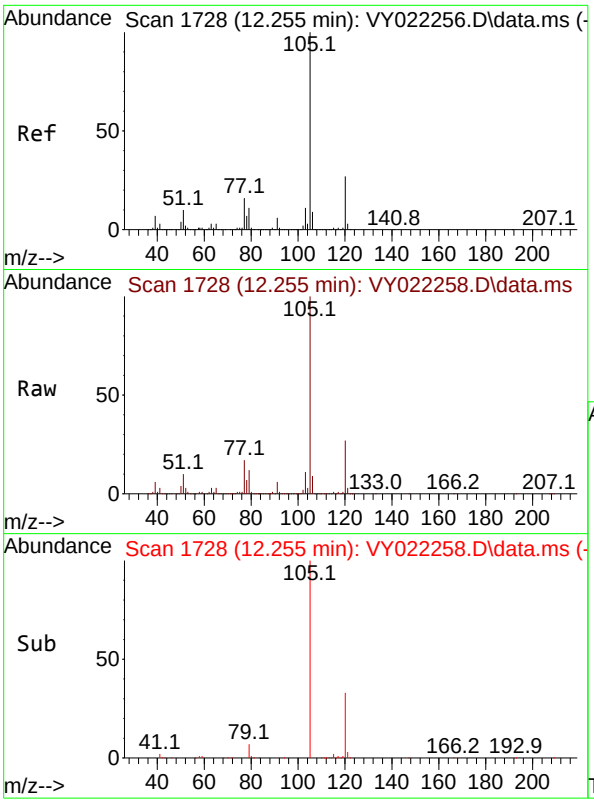



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:152 Resp: 187978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.1 | 29.4 | 88.2 |
| 150 | 208.7 | 0.0 | 353.8 |

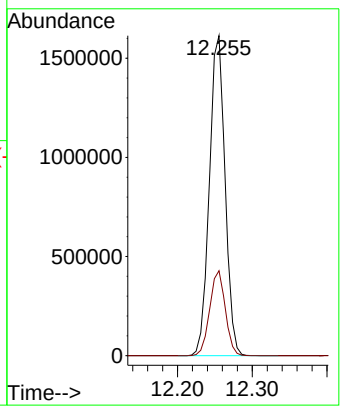





#73
Isopropylbenzene
Concen: 151.387 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:105 Resp: 235756

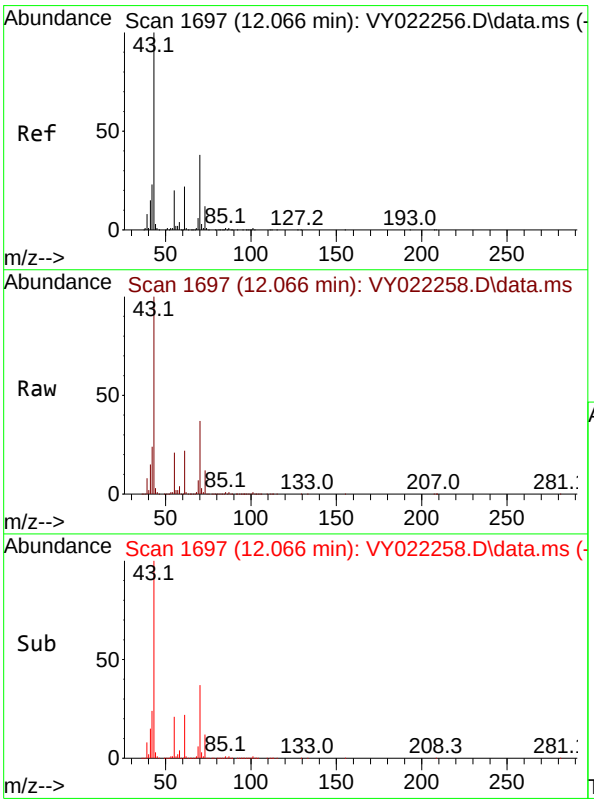
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.2 | 39.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

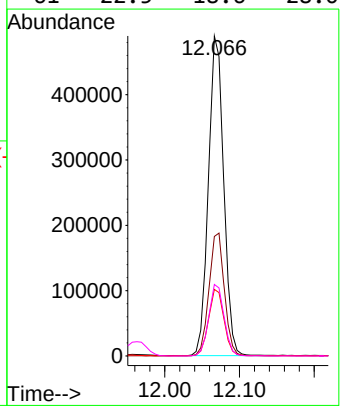
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

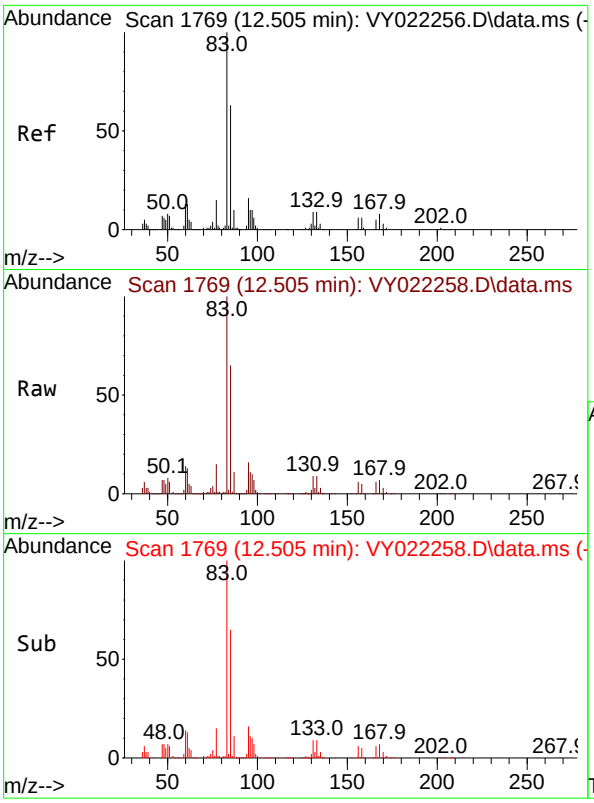



#74
N-amyl acetate
Concen: 156.041 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 694999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 38.7 | 31.4 | 47.0 |
| 55 | 21.0 | 17.0 | 25.6 |
| 61 | 22.5 | 18.6 | 28.0 |






#75
1,1,2,2-Tetrachloroethane
Concen: 156.735 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

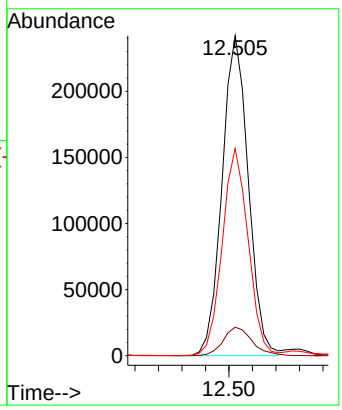
Tgt Ion: 83 Resp: 37537

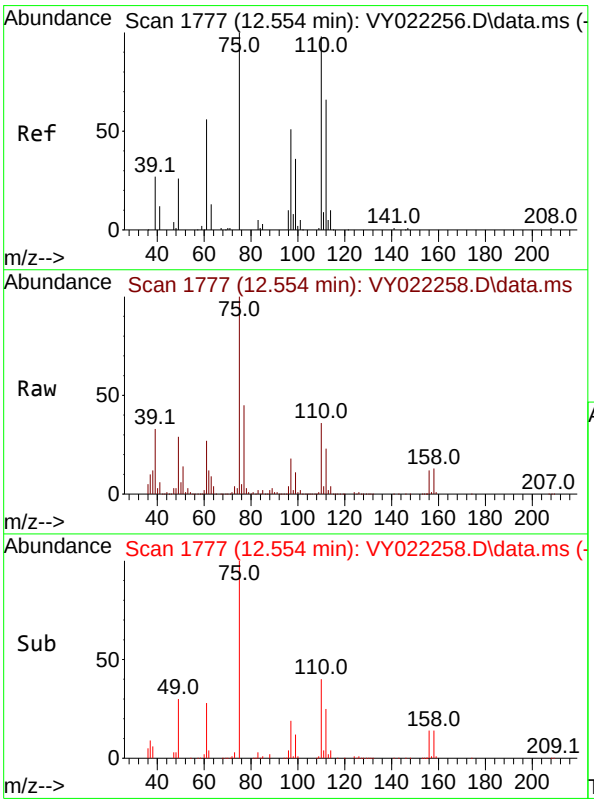
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.8 | 4.9 | 14.7 |
| 85 | 63.8 | 32.0 | 96.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

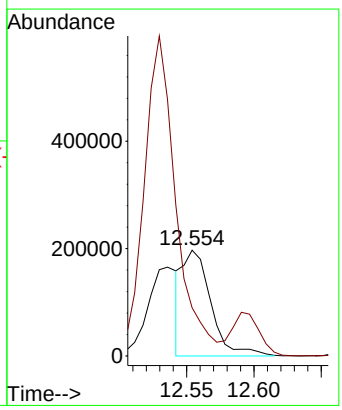


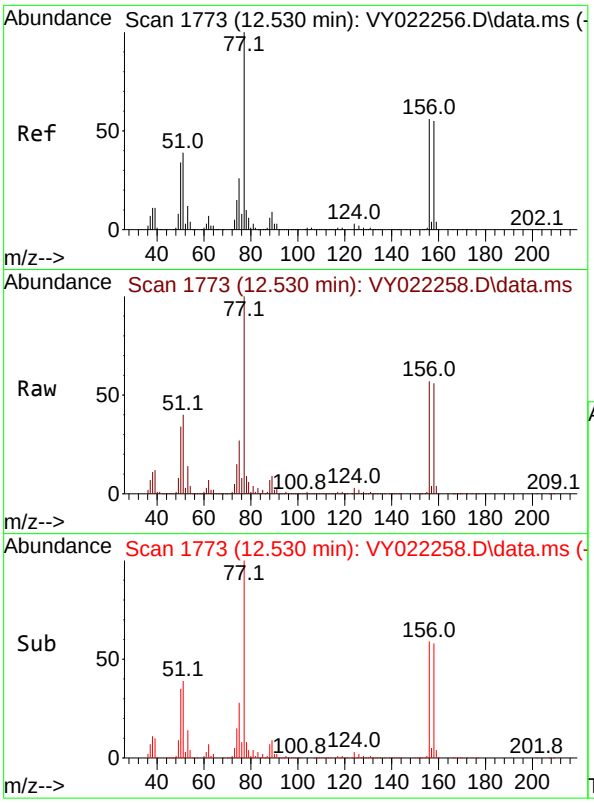




#76
1,2,3-Trichloropropane
Concen: 87.525 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 75 Resp: 289968

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

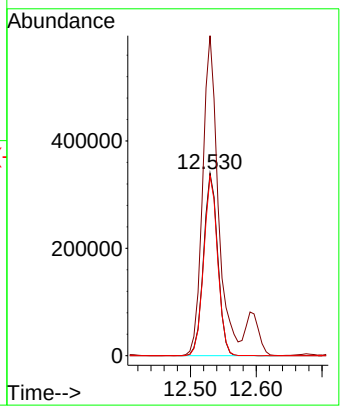





#77
Bromobenzene
Concen: 153.206 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:156 Resp: 50957

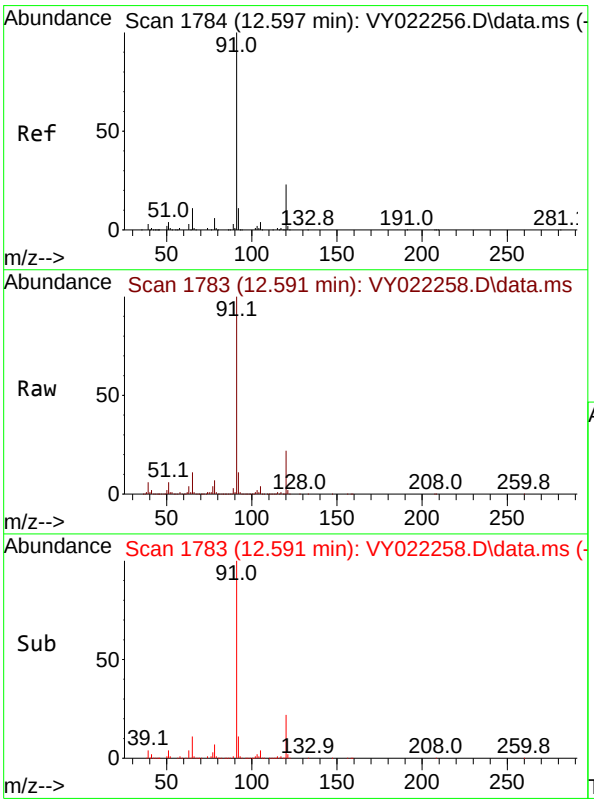
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 191.5 | 94.5 | 283.6 |
| 158 | 97.3 | 48.4 | 145.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

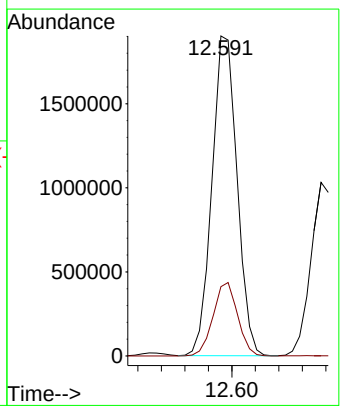
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

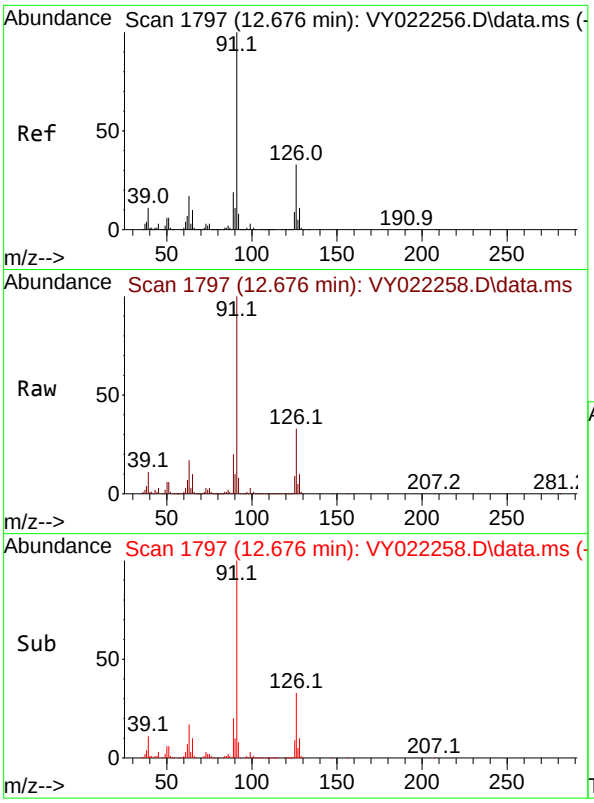



#78
n-propylbenzene
Concen: 150.276 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 91 Resp: 2822794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.4 | 11.1 | 33.3 |

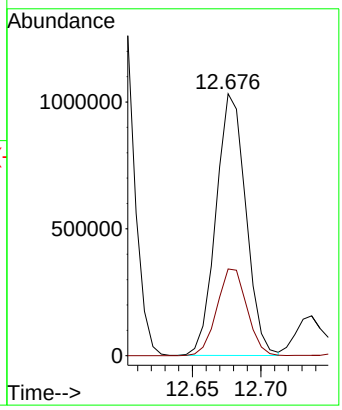





#79
2-Chlorotoluene
Concen: 151.415 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 91 Resp: 156300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.4 | 16.8 | 50.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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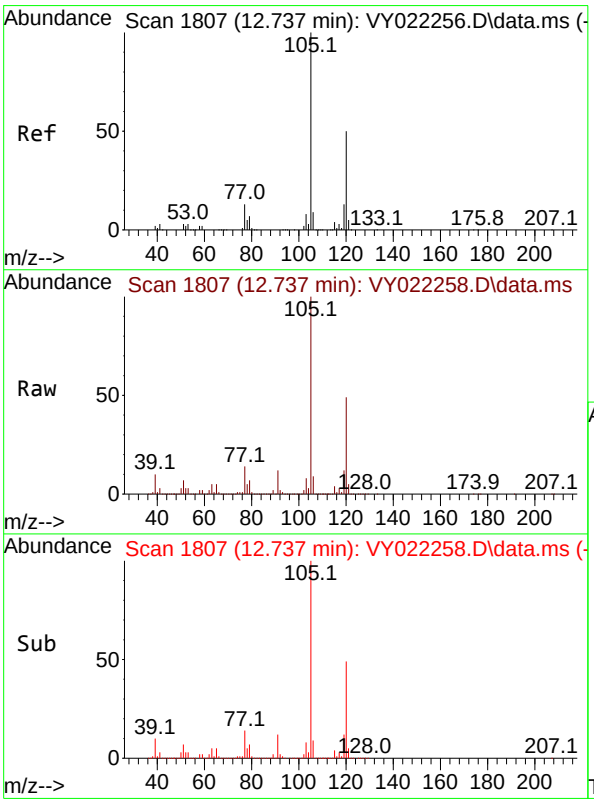
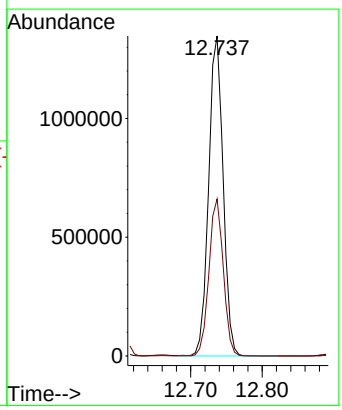
Supervised By :Semsettin Yesilyurt 05/16/2025

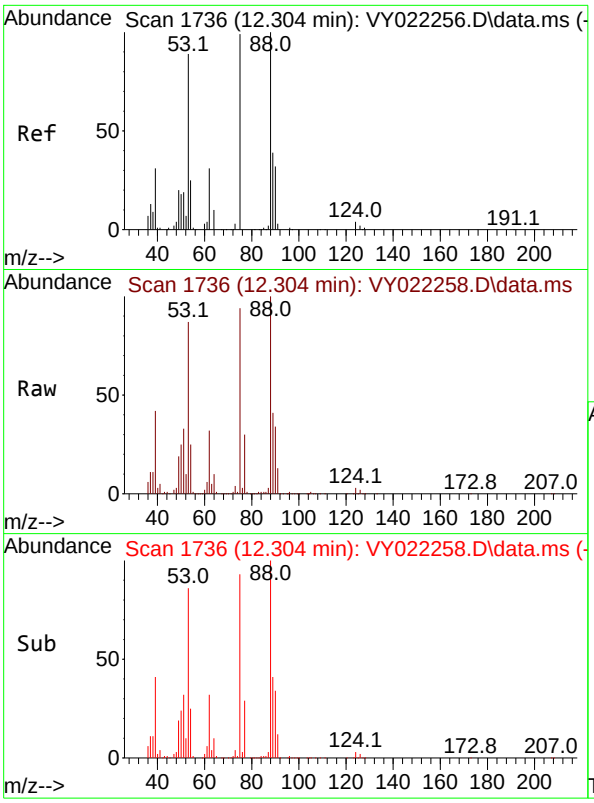



#80
1,3,5-Trimethylbenzene
Concen: 150.219 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:105 Resp: 1888432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.7 | 24.2 | 72.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 148.846 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

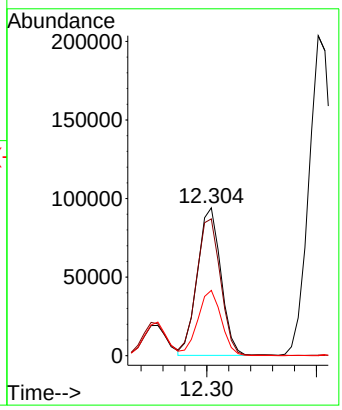
Tgt Ion: 75 Resp: 13993

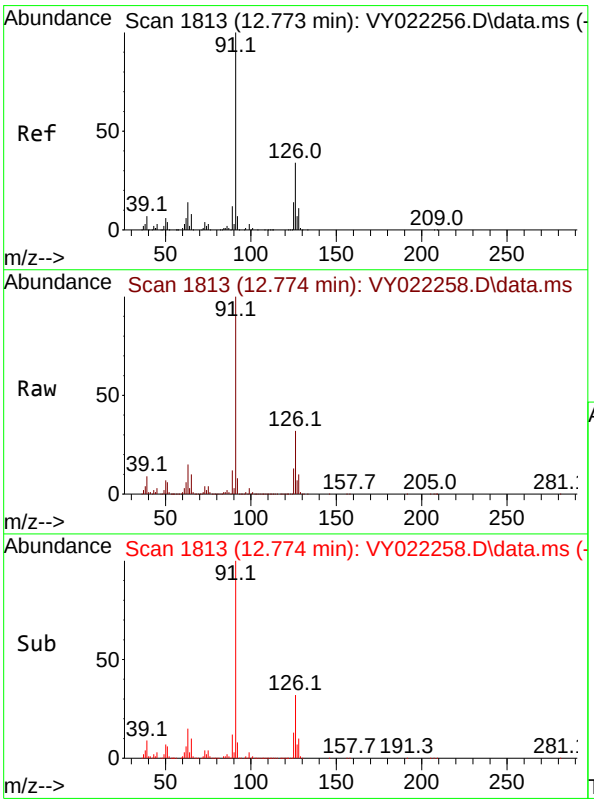
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 95.1 | 75.8 | 113.8 |
| 89 | 44.4 | 36.2 | 54.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

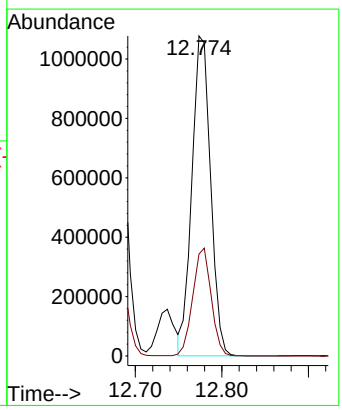


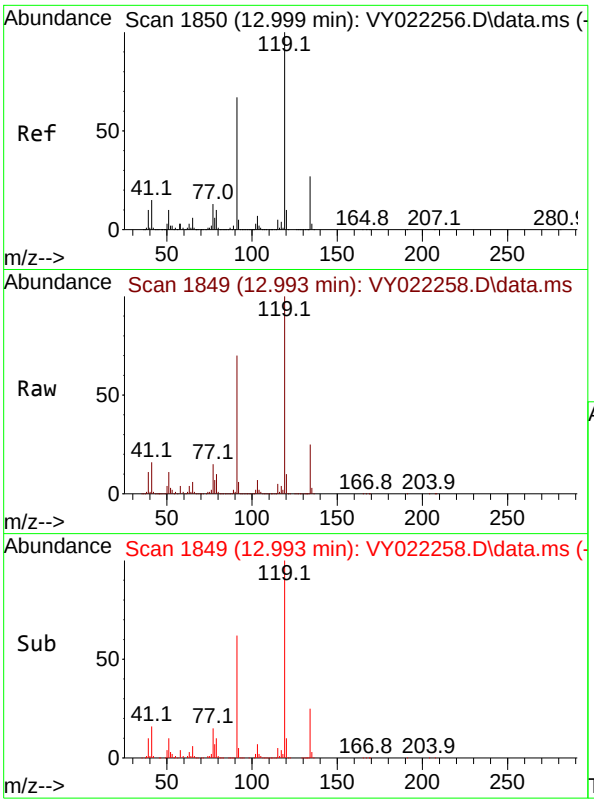




#82
4-Chlorotoluene
Concen: 152.250 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 91 Resp: 1616520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.3 | 16.8 | 50.4 |

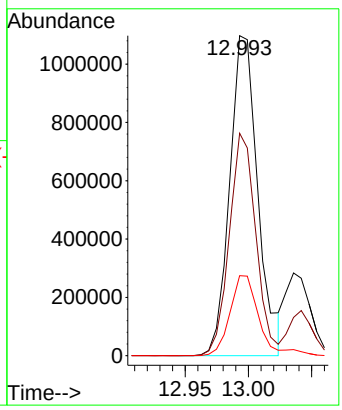





#83
tert-Butylbenzene
Concen: 152.144 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:119 Resp: 169996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.7 | 32.8 | 98.3 |
| 134 | 25.9 | 12.9 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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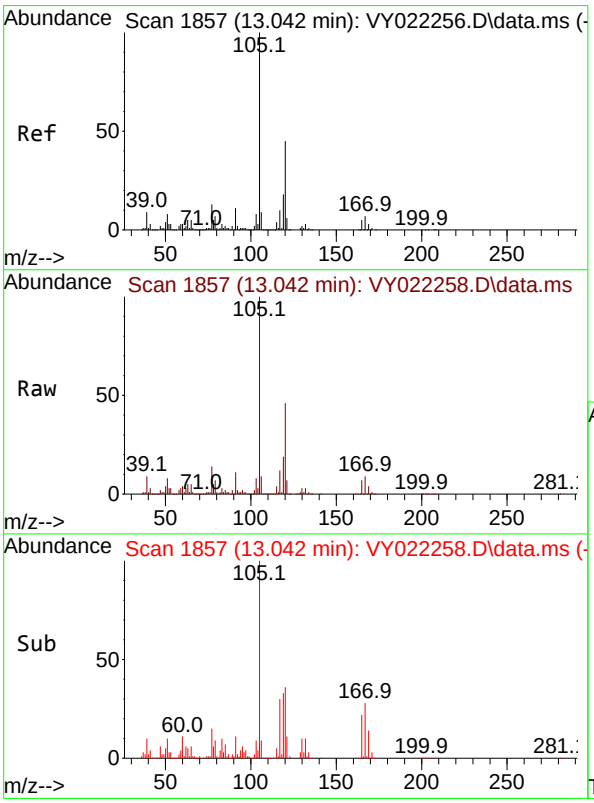
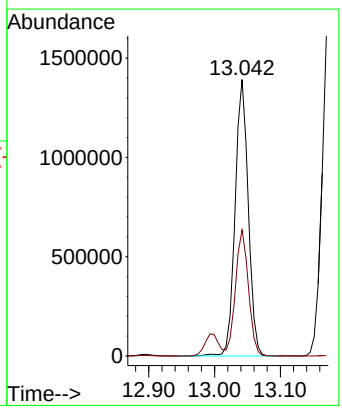
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

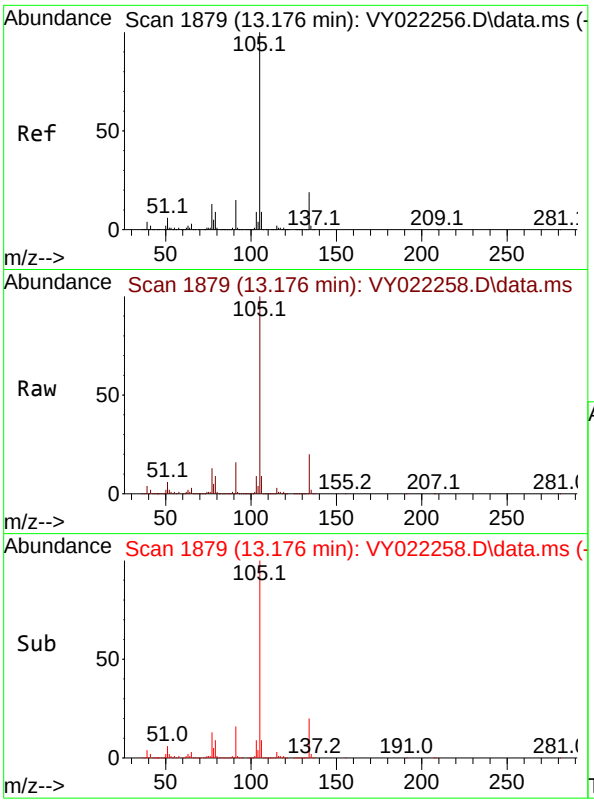



#84
1,2,4-Trimethylbenzene
Concen: 155.030 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:105 Resp: 1934641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.7 | 22.3 | 66.9 |

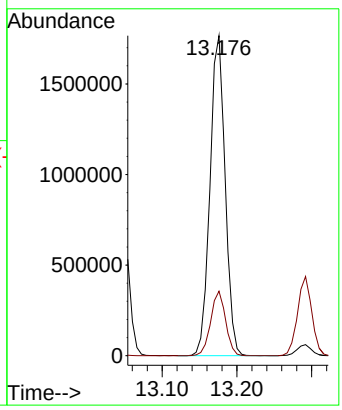





#85
sec-Butylbenzene
Concen: 150.330 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:105 Resp: 249339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.8 | 9.8 | 29.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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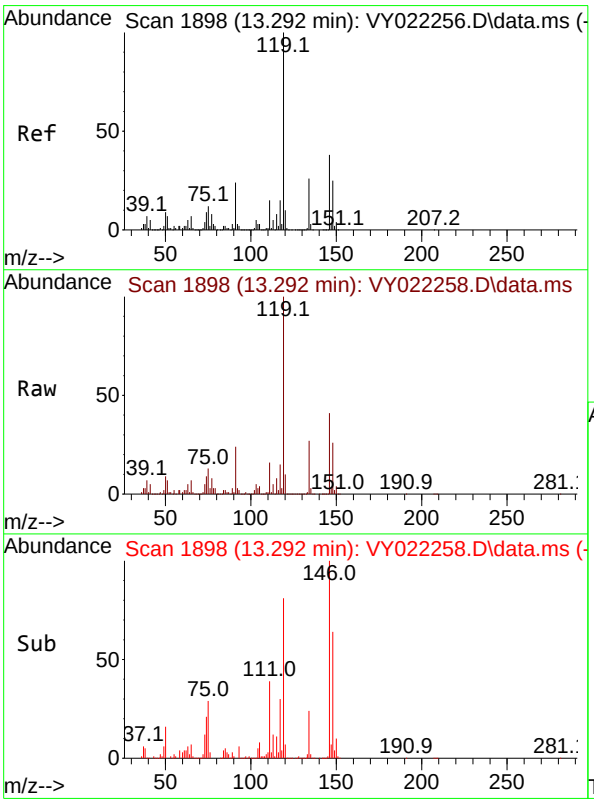
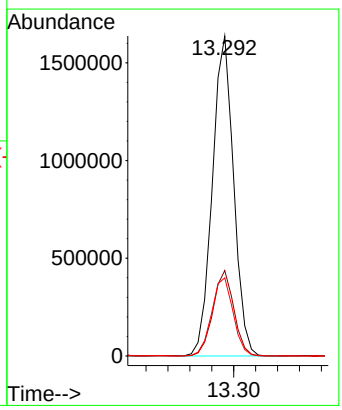
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

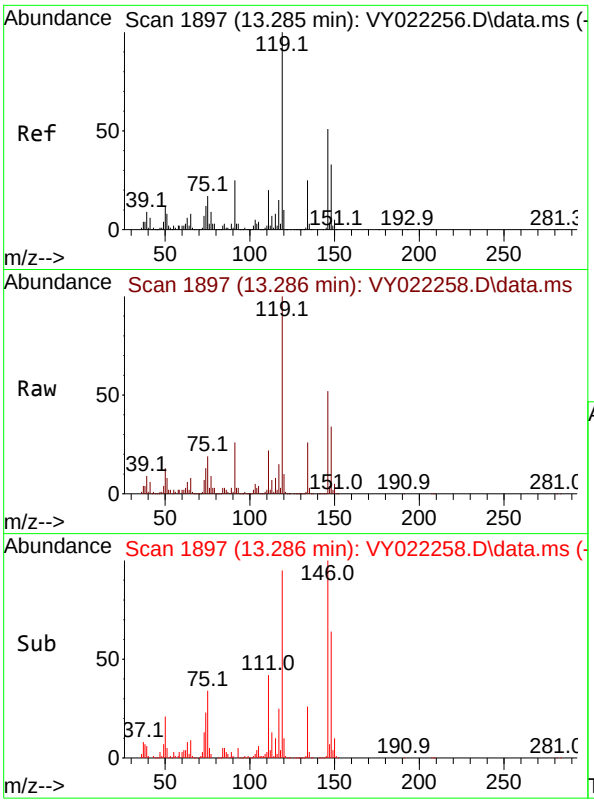



#86
p-Isopropyltoluene
Concen: 158.088 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:119 Resp: 2205275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 12.9 | 38.6 |
| 91 | 24.8 | 12.1 | 36.3 |

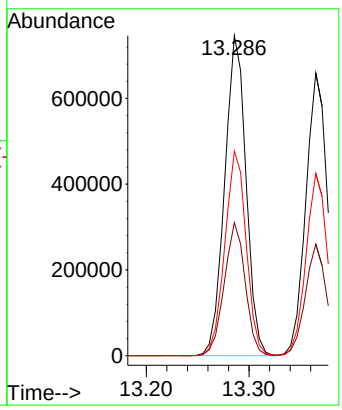





#87
1,3-Dichlorobenzene
Concen: 158.981 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:146 Resp: 107947

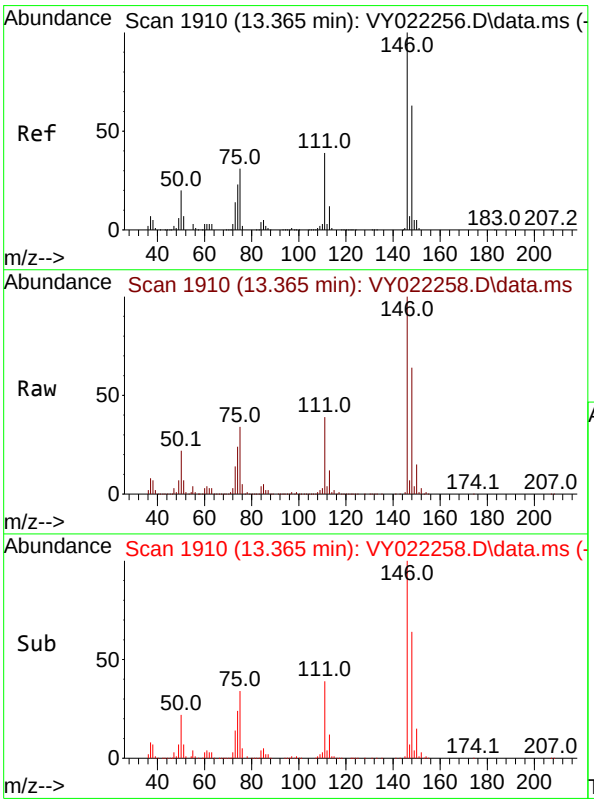
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.7 | 19.9 | 59.7 |
| 148 | 63.8 | 31.9 | 95.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

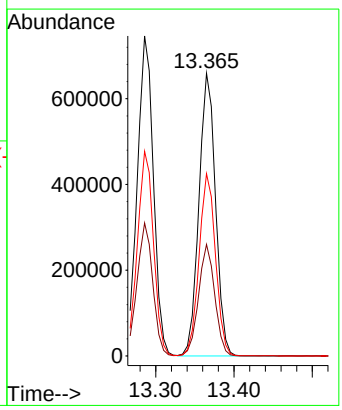
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

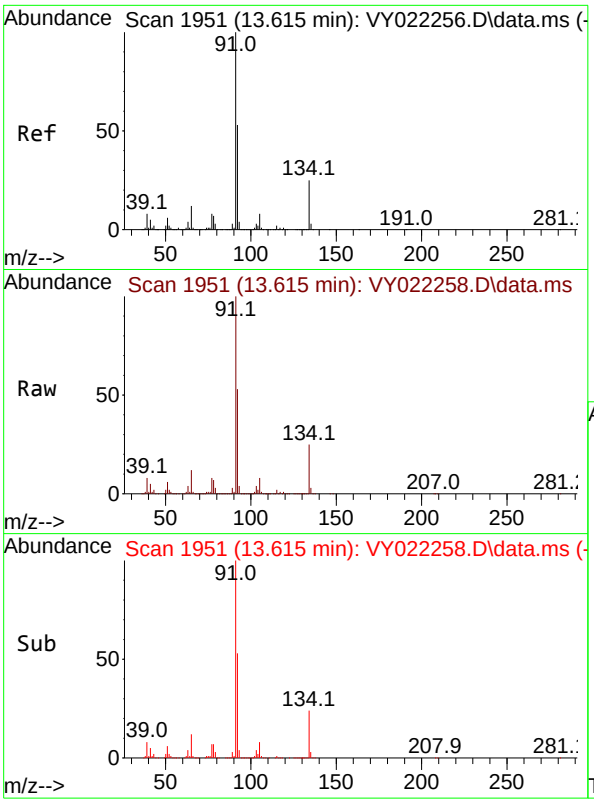



#88
1,4-Dichlorobenzene
Concen: 148.497 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:146 Resp: 969874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.4 | 20.0 | 59.9 |
| 148 | 63.9 | 32.1 | 96.5 |

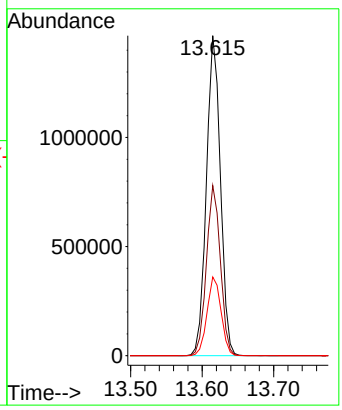





#89
n-Butylbenzene
Concen: 150.985 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 91 Resp: 199255

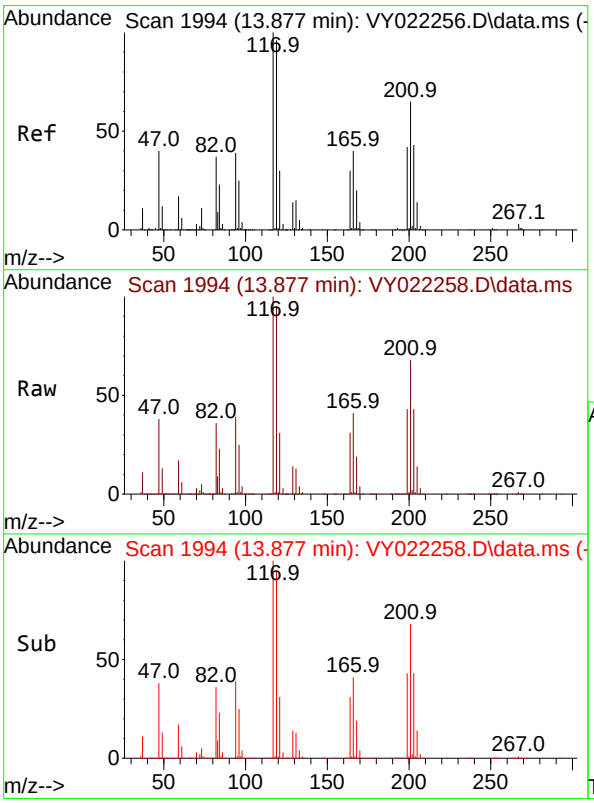
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.1 | 26.3 | 78.9 |
| 134 | 24.8 | 12.4 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

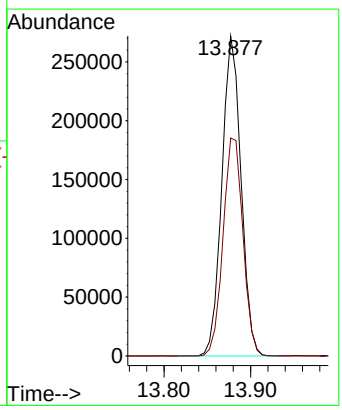
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

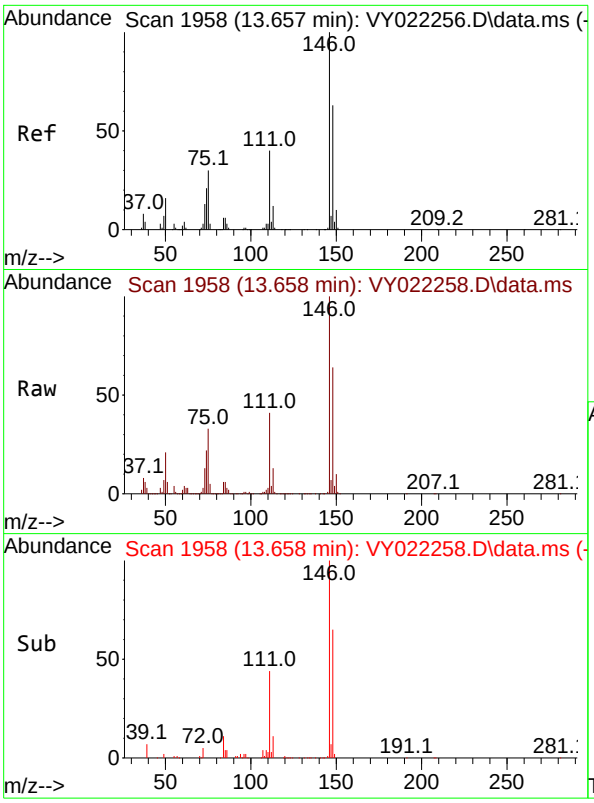



#90
Hexachloroethane
Concen: 148.208 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:117 Resp: 417341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 71.0 | 35.2 | 105.6 |

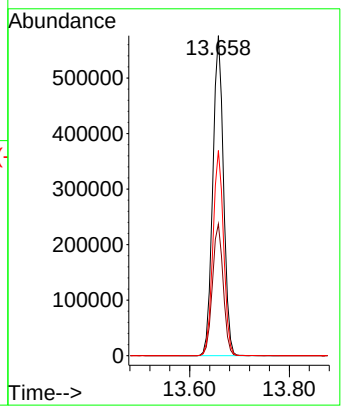





#91
1,2-Dichlorobenzene
Concen: 150.565 ug/l
RT: 13.658 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:146 Resp: 85873

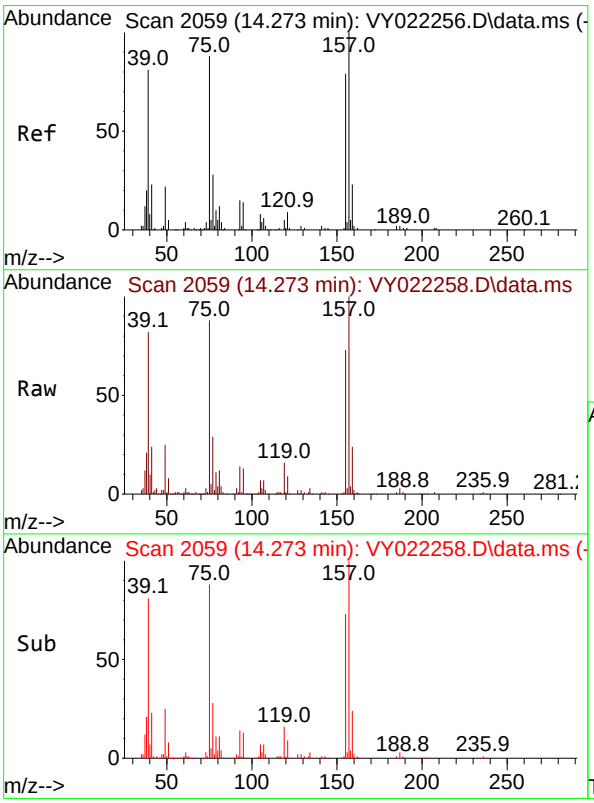
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.3 | 20.5 | 61.5 |
| 148 | 63.8 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

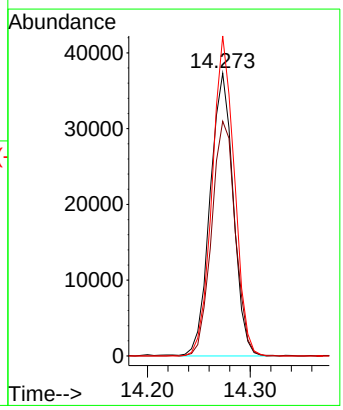
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

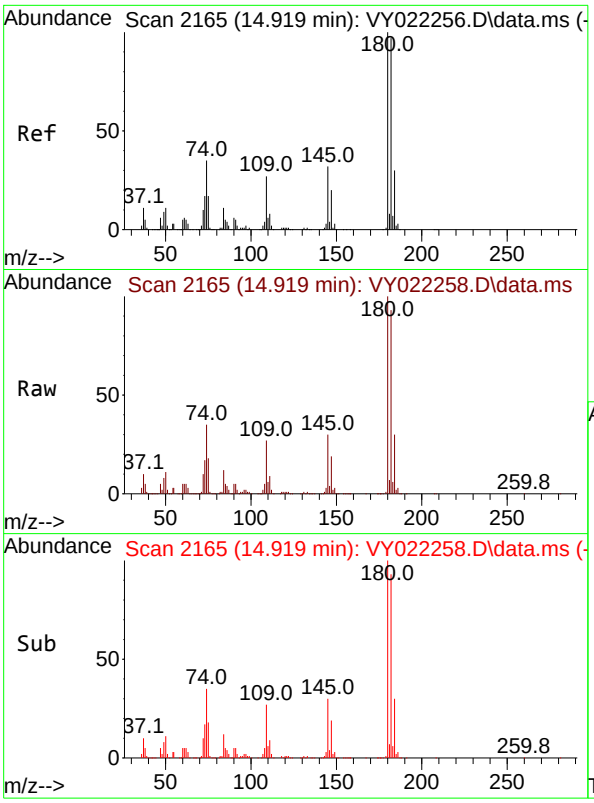



#92
1,2-Dibromo-3-Chloropropane
Concen: 151.172 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 75 Resp: 58383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 84.6 | 43.4 | 130.1 |
| 157 | 108.4 | 54.6 | 163.9 |

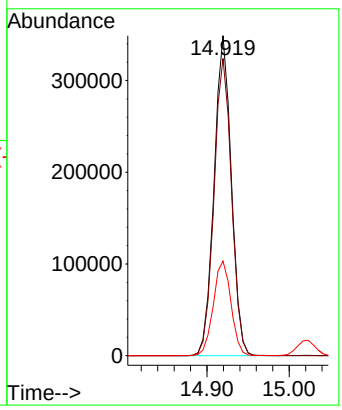





#93
1,2,4-Trichlorobenzene
Concen: 154.361 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:180 Resp: 50853

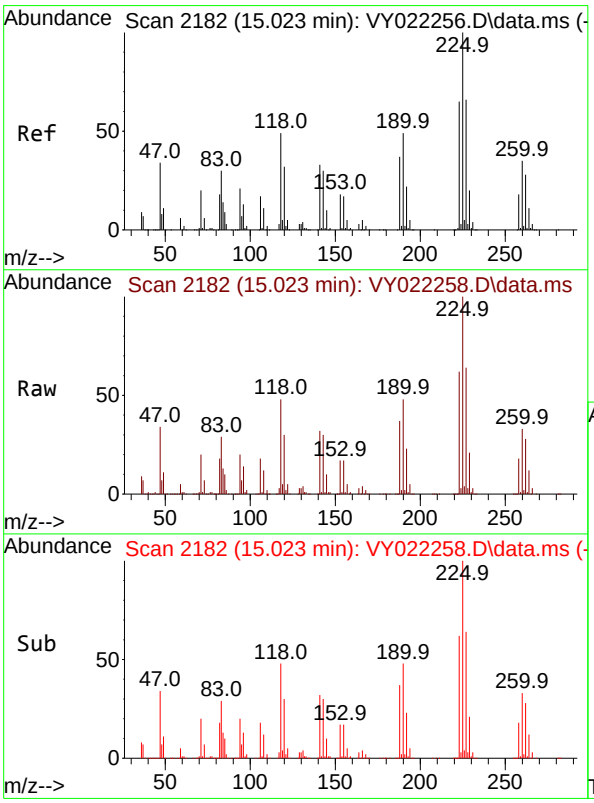
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.3 | 48.0 | 144.0 |
| 145 | 30.4 | 15.0 | 45.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

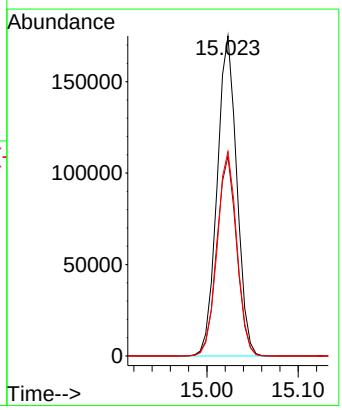
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

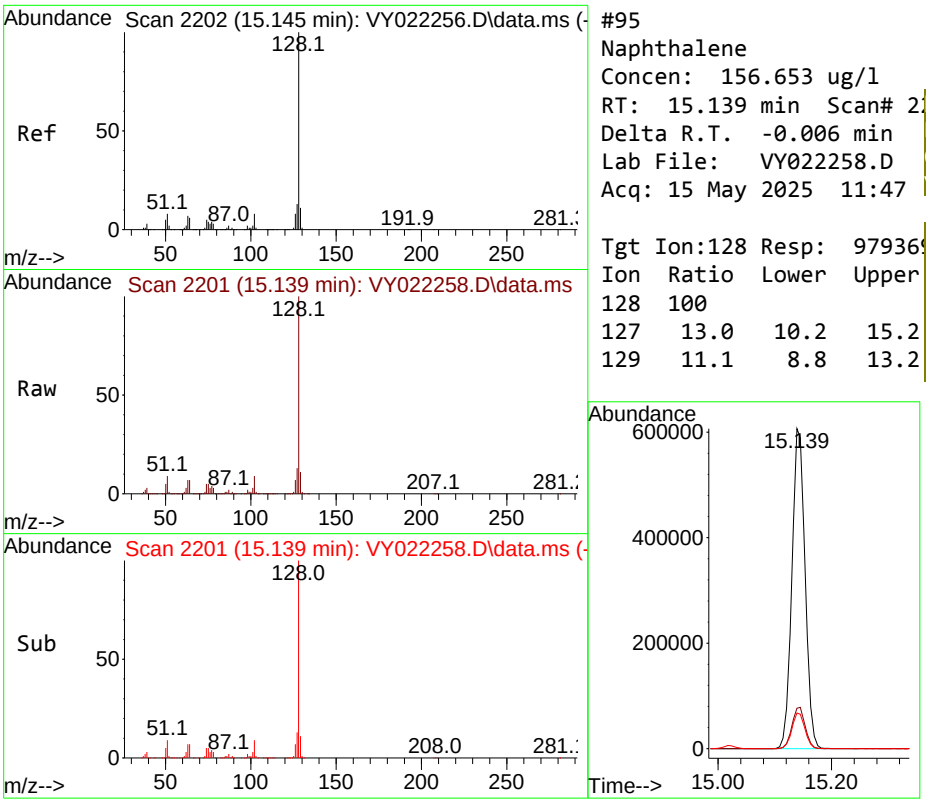



#94
Hexachlorobutadiene
Concen: 142.514 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:225 Resp: 261832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 31.5 | 94.5 |
| 227 | 63.8 | 32.1 | 96.3 |






#95
Naphthalene
Concen: 156.653 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:128 Resp: 97936

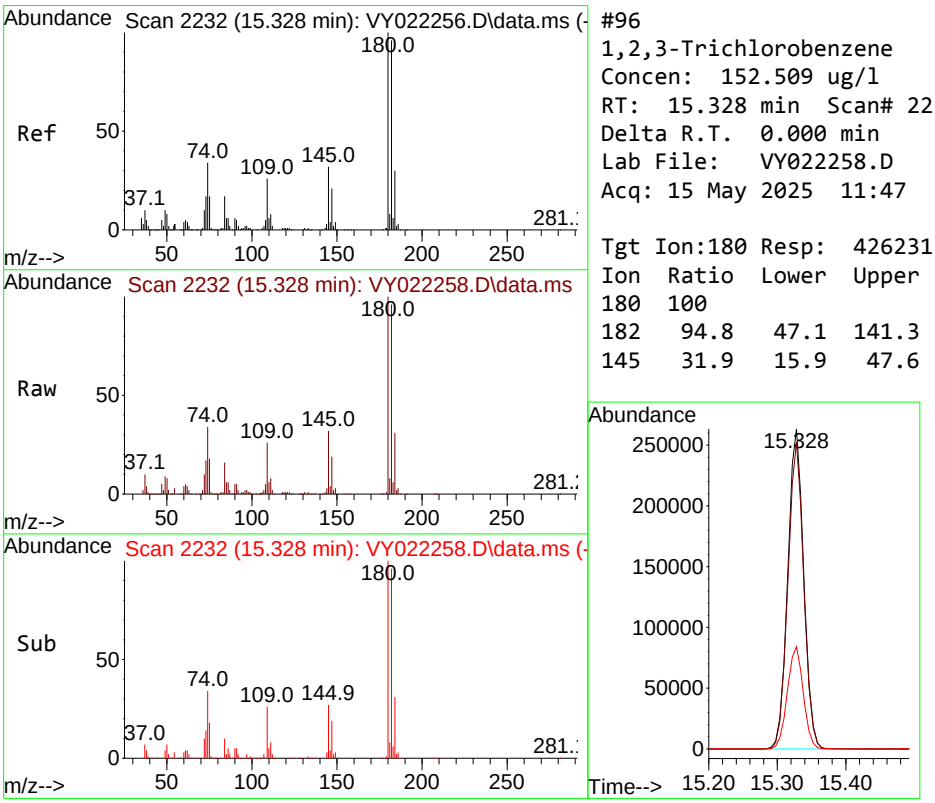
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.2 | 15.2 |
| 129 | 11.1 | 8.8 | 13.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025




#96
1,2,3-Trichlorobenzene
Concen: 152.509 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:180 Resp: 426231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 47.1 | 141.3 |
| 145 | 31.9 | 15.9 | 47.6 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 252715 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 428969 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 375548 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 178387 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 143909 | 52.104 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 104.200% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 132263 | 51.658 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 103.320% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 537188 | 51.229 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 102.460% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 169575 | 51.020 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 102.040% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 130352 | 49.432 | ug/l | 97 |
| 3) Chloromethane | 2.068 | 50 | 270248 | 48.719 | ug/l | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 316755 | 51.111 | ug/l | 99 |
| 5) Bromomethane | 2.598 | 94 | 244611 | 48.486 | ug/l | 99 |
| 6) Chloroethane | 2.732 | 64 | 205247 | 53.234 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.056 | 101 | 321098 | 51.174 | ug/l | 99 |
| 8) Diethyl Ether | 3.458 | 74 | 78386 | 52.055 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 140460 | 51.564 | ug/l | 100 |
| 10) Methyl Iodide | 4.007 | 142 | 156397 | 49.606 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.872 | 59 | 55922 | 265.144 | ug/l # | 100 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 139180 | 51.487 | ug/l | 98 |
| 13) Acrolein | 3.653 | 56 | 73495 | 238.362 | ug/l | 98 |
| 14) Allyl chloride | 4.378 | 41 | 250342 | 52.817 | ug/l | 100 |
| 15) Acrylonitrile | 5.055 | 53 | 164507 | 265.134 | ug/l | 99 |
| 16) Acetone | 3.872 | 43 | 130848 | 252.660 | ug/l | 99 |
| 17) Carbon Disulfide | 4.104 | 76 | 456302 | 51.765 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 97091 | 59.461 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 395753 | 53.096 | ug/l | 99 |
| 20) Methylene Chloride | 4.610 | 84 | 158275 | 47.298 | ug/l | 92 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 153819 | 51.552 | ug/l | 98 |
| 22) Diisopropyl ether | 6.018 | 45 | 521343 | 52.085 | ug/l | 99 |
| 23) Vinyl Acetate | 5.957 | 43 | 1530507 | 253.098 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 288933 | 51.668 | ug/l | 97 |
| 25) 2-Butanone | 6.896 | 43 | 221702 | 255.929 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 259587 | 52.191 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 180695 | 52.479 | ug/l | 100 |
| 28) Bromochloromethane | 7.250 | 49 | 124761 | 52.305 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 147603 | 264.847 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 283264 | 52.810 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 271949 | 48.673 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 253549 | 51.523 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 212786 | 50.457 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 102740 | 50.633 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 220636 | 50.543 | ug/l | 98 |
| 39) Methylcyclohexane | 9.109 | 83 | 283373 | 50.015 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 646289 | 51.696 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.244 | 41 | 72143m | 53.599 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 175241 | 51.834 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 227521 | 51.415 | ug/l | # | 89 |
| 44) Trichloroethene | 8.865 | 130 | 156468 | 50.335 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 154975 | 51.417 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 83597 | 51.423 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.426 | 83 | 221446 | 52.508 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 106283 | 51.357 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.231 | 88 | 18521 | 1008.479 | ug/l | | 95 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 567722 | 261.463 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 406420 | 51.337 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 211790 | 51.458 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 244811 | 51.916 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 106464 | 51.142 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.438 | 69 | 164207 | 50.639 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 191889 | 51.880 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 394587 | 271.104 | ug/l | | 100 |
| 59) 2-Hexanone | 10.761 | 43 | 375224 | 257.738 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.914 | 129 | 141652 | 52.425 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 99783 | 51.428 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 162818 | 46.905 | ug/l | | 99 |
| 65) Chlorobenzene | 11.444 | 112 | 422170 | 49.827 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 144636 | 49.656 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 794978 | 50.100 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 604420 | 101.087 | ug/l | | 99 |
| 69) o-Xylene | 11.956 | 106 | 286712 | 50.682 | ug/l | | 98 |
| 70) Styrene | 11.969 | 104 | 481621 | 50.471 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 80216 | 51.022 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 738398 | 49.964 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 210510 | 49.805 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 120599 | 53.062 | ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 96804m | 53.564 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 155843 | 49.374 | ug/l | | 97 |
| 78) n-propylbenzene | 12.596 | 91 | 896555 | 50.296 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 491073 | 50.130 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 592100 | 49.632 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 43921 | 49.231 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 510451 | 50.661 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 527140 | 49.715 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 598450 | 50.535 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 787000 | 50.000 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 664795 | 50.219 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.291 | 146 | 320357 | 49.718 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 307847 | 49.669 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.621 | 91 | 631222 | 50.402 | ug/l | | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 132281 | 49.502 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 270373 | 49.954 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 18335 | 50.028 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 152548 | 48.794 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 83287 | 47.770 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 287276 | 48.421 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 127466 | 48.060 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

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

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

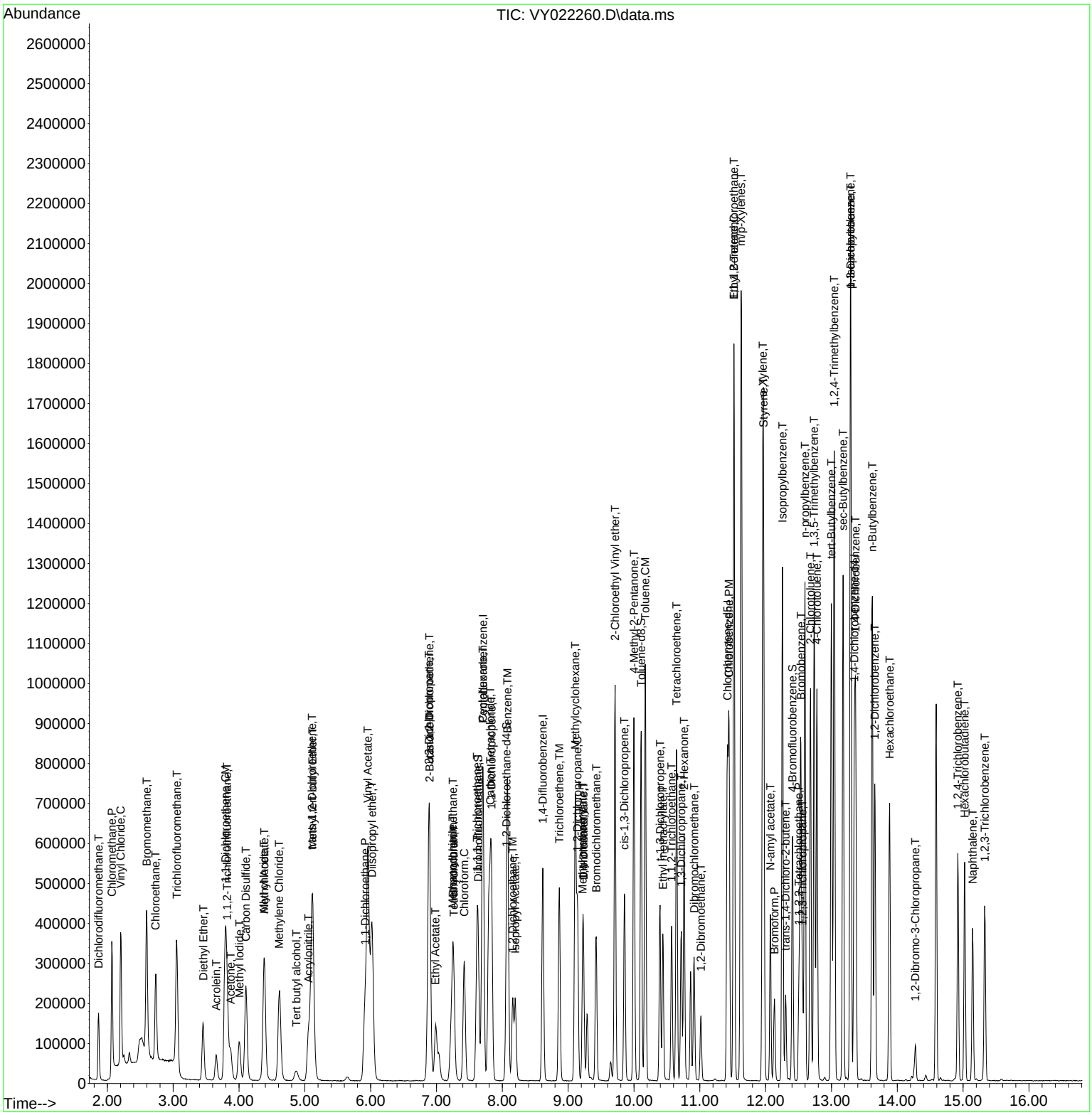
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

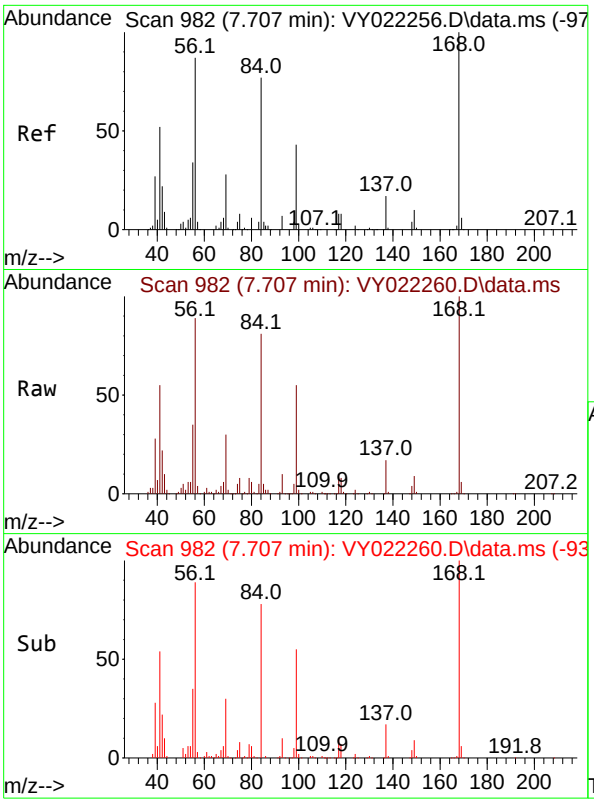
Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

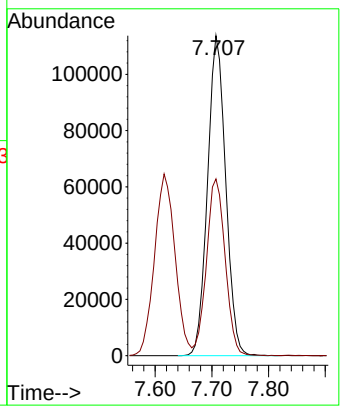





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:168 Resp: 25271

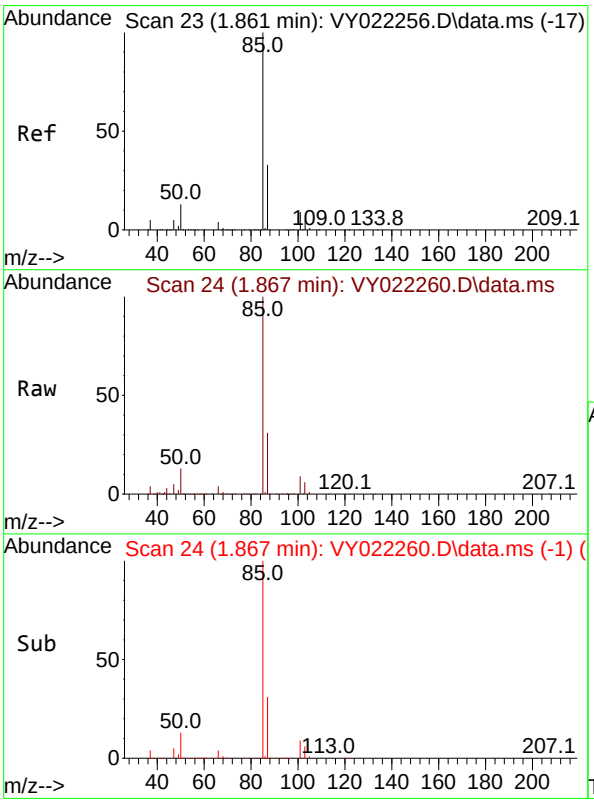
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.2 | 44.2 | 66.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

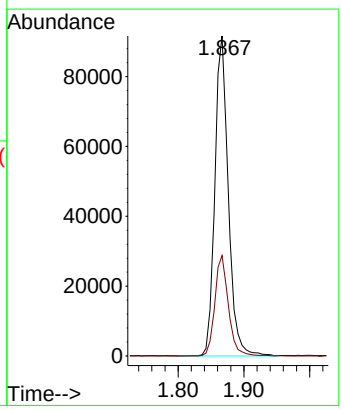
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

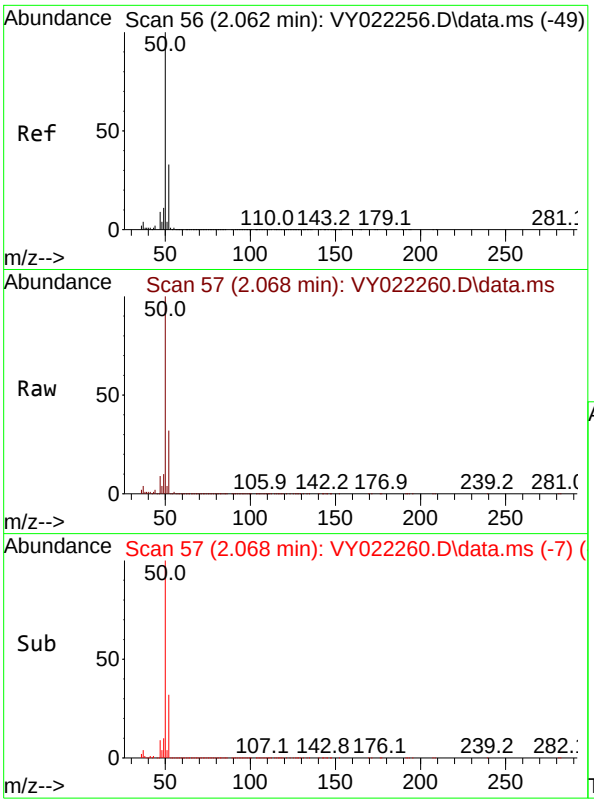



#2
Dichlorodifluoromethane
Concen: 49.432 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 85 Resp: 130352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.4 | 16.5 | 49.5 |

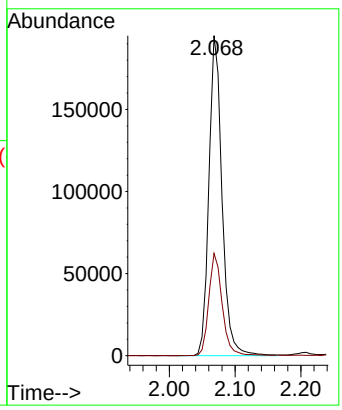





#3
Chloromethane
Concen: 48.719 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 50 Resp: 27024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.9 | 26.5 | 39.7 |




**Instrument :**
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**Manual Integrations**
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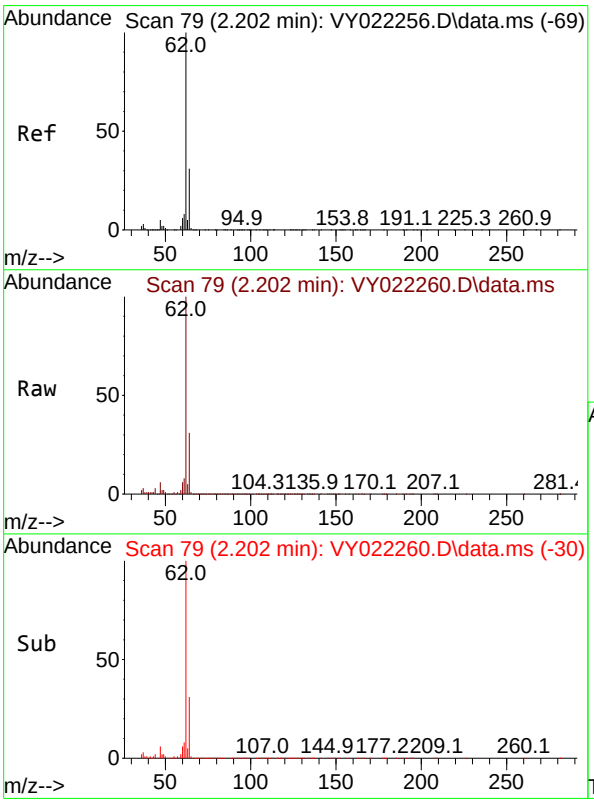
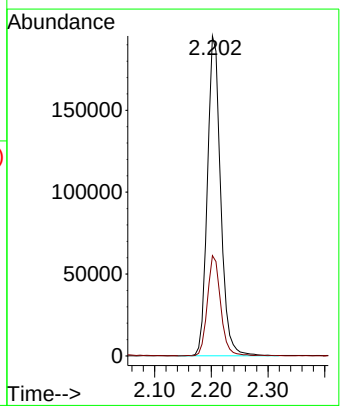
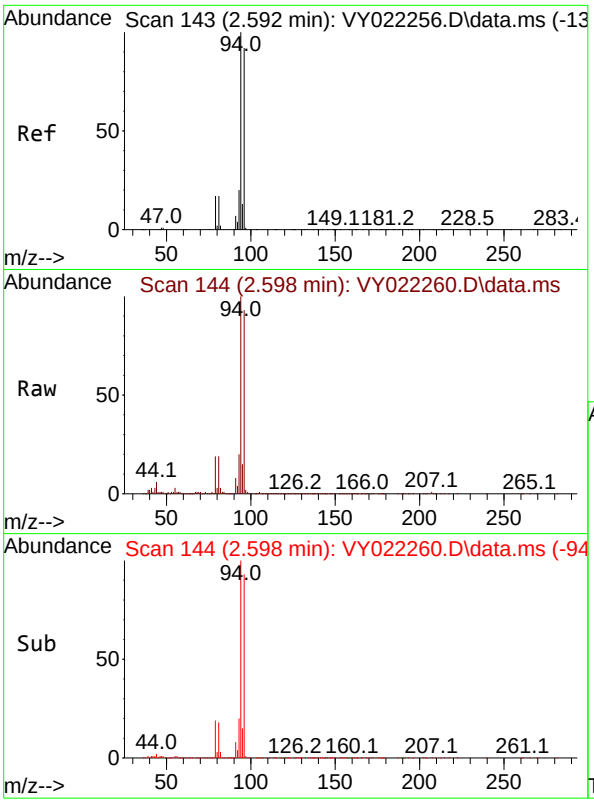



#4
Vinyl Chloride
Concen: 51.111 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 62 Resp: 316755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.3 | 24.5 | 36.7 |






#5
Bromomethane
Concen: 48.486 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 94 Resp: 24461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.8 | 73.4 | 110.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

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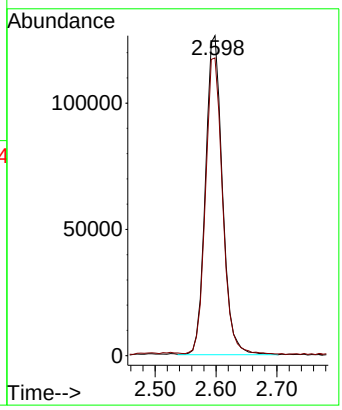
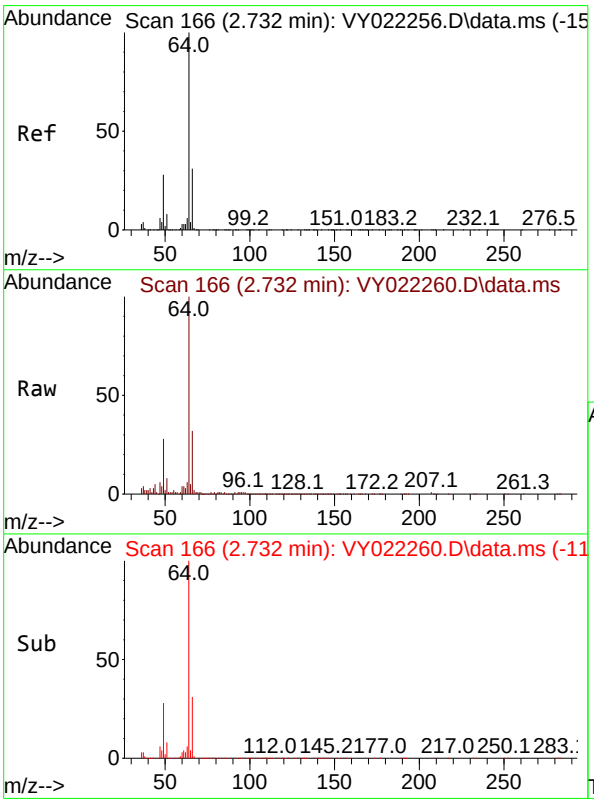
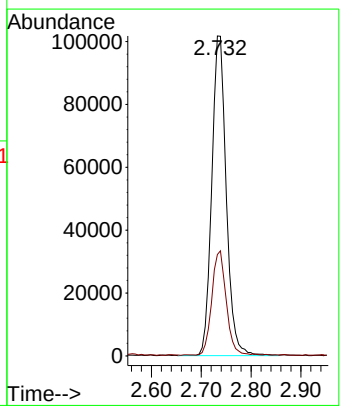


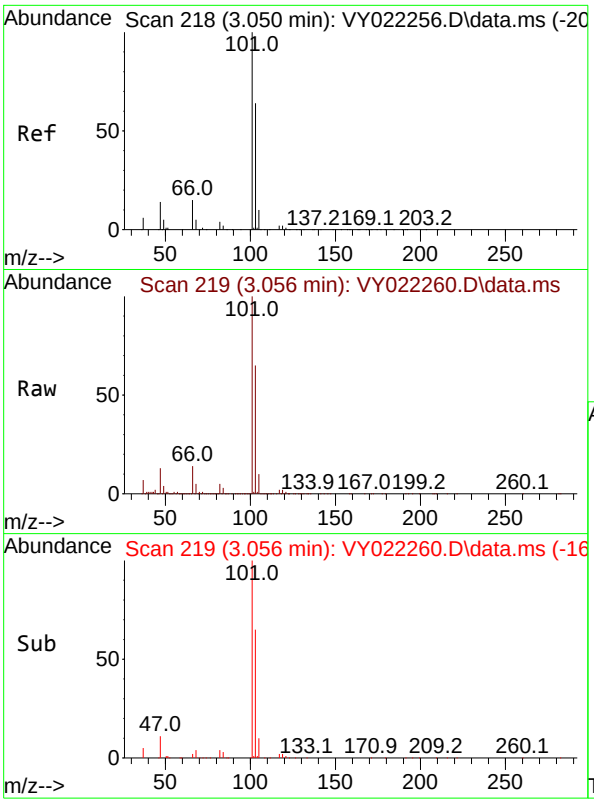




#6
Chloroethane
Concen: 53.234 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 64 Resp: 205247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.4 | 24.8 | 37.2 |

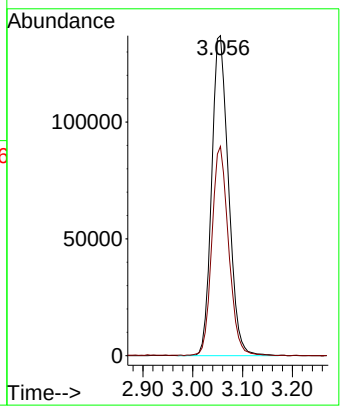





#7
Trichlorofluoromethane
Concen: 51.174 ug/l
RT: 3.056 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:101 Resp: 32109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.3 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

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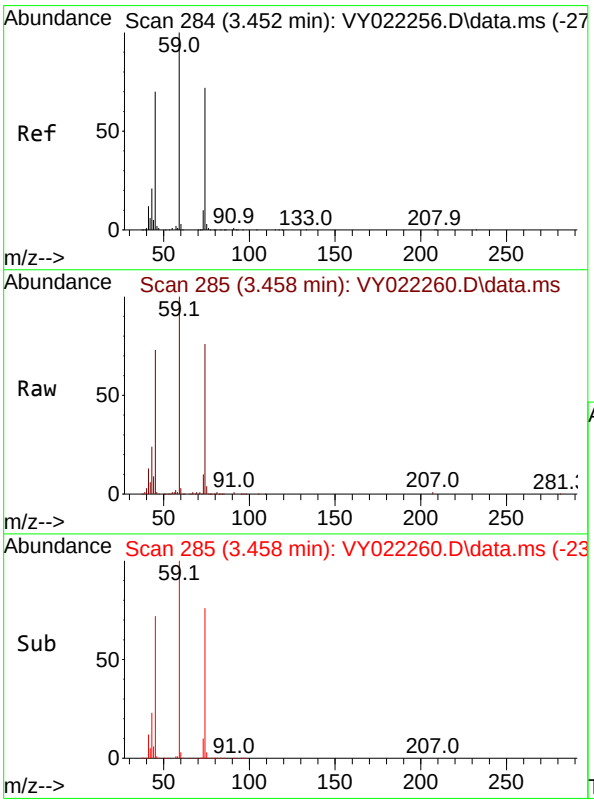
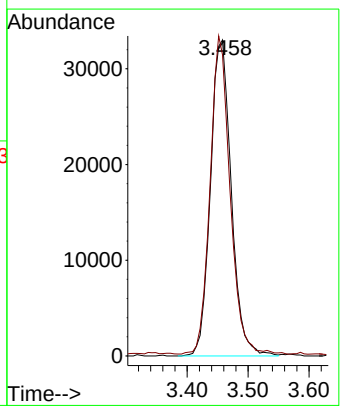
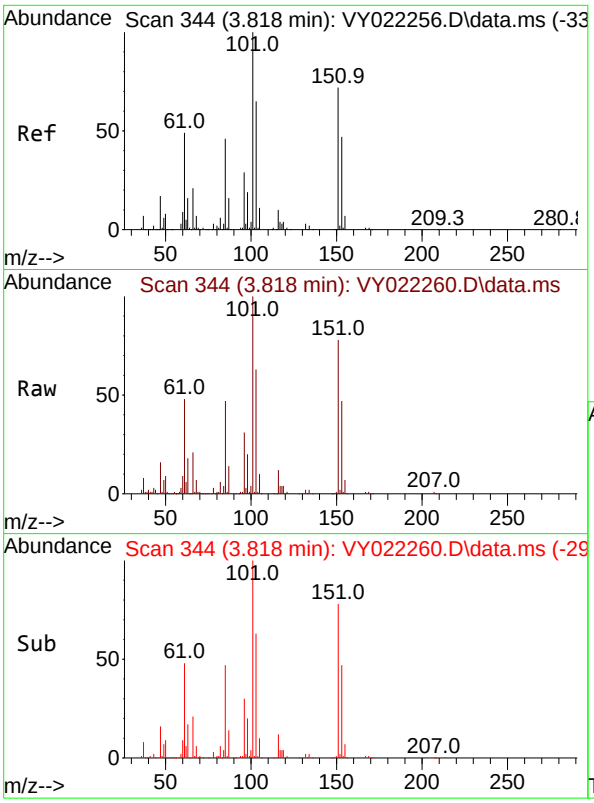



#8
Diethyl Ether
Concen: 52.055 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 74 Resp: 78386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 96.3 | 48.6 | 145.8 |

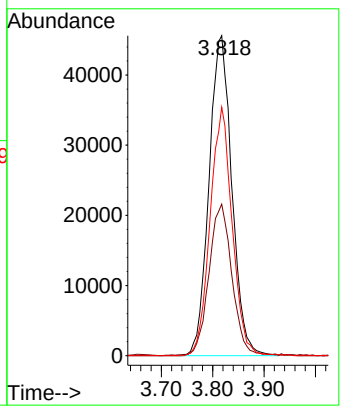





#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.564 ug/l
RT: 3.818 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:101 Resp: 14046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.9 | 38.6 | 58.0 |
| 151 | 74.9 | 59.7 | 89.5 |




**Instrument :**
MSVOA_Y
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ICVVY051525

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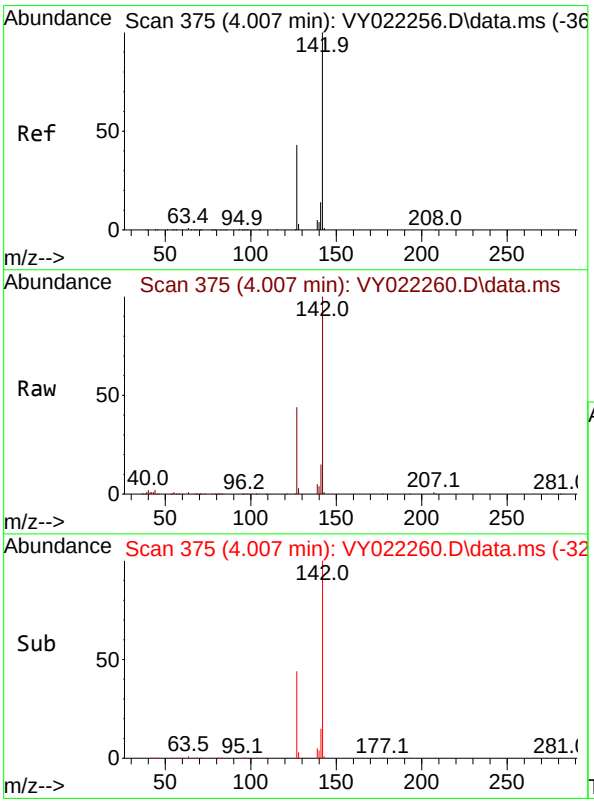
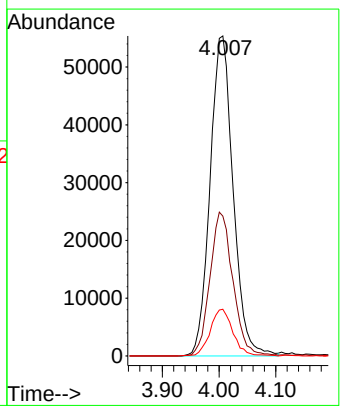
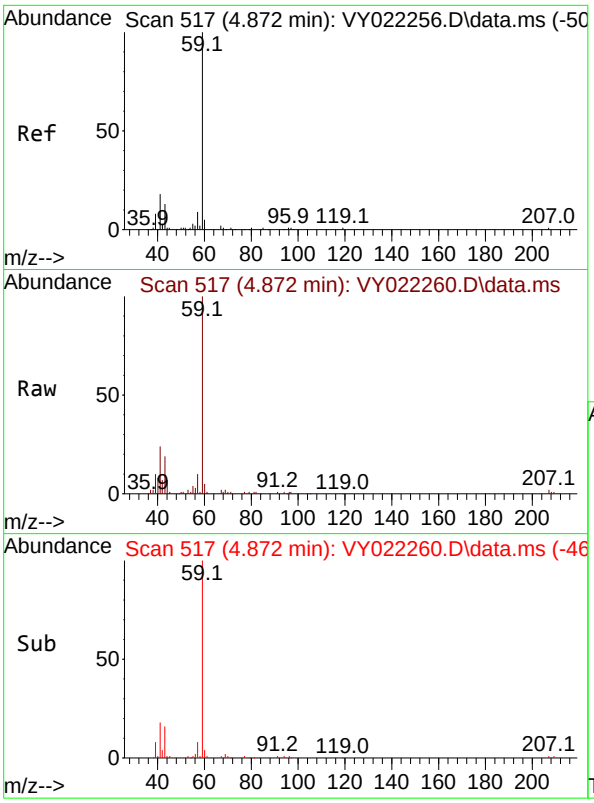



#10
Methyl Iodide
Concen: 49.606 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:142 Resp: 156397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.8 | 35.7 | 53.5 |
| 141 | 14.4 | 11.1 | 16.7 |






#11
Tert butyl alcohol
Concen: 265.144 ug/l
RT: 4.872 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 59 Resp: 5592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.7 | 0.0 | 0.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
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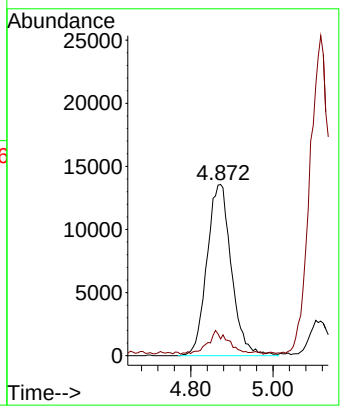
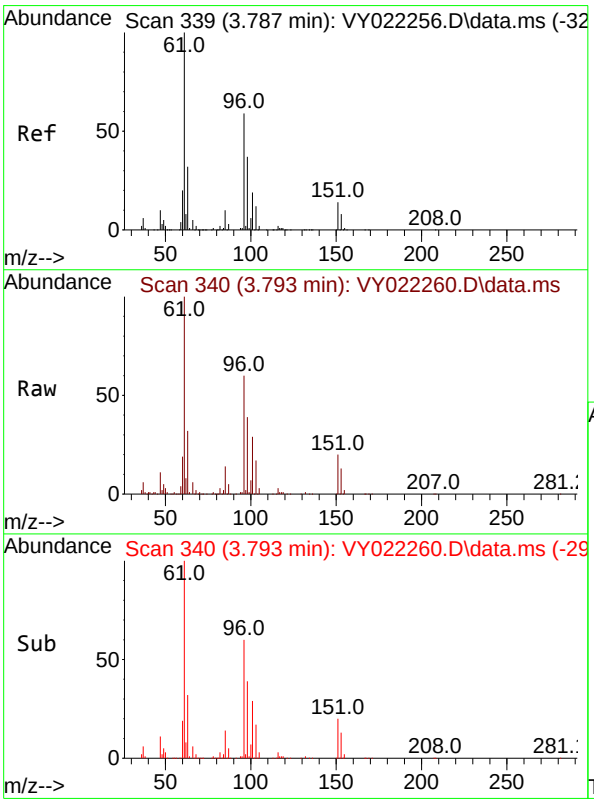
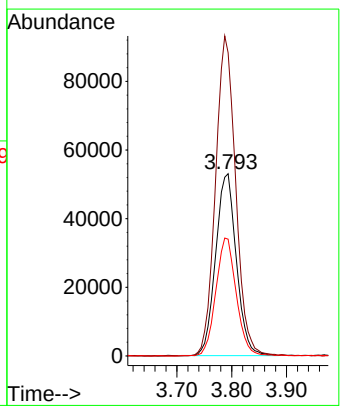


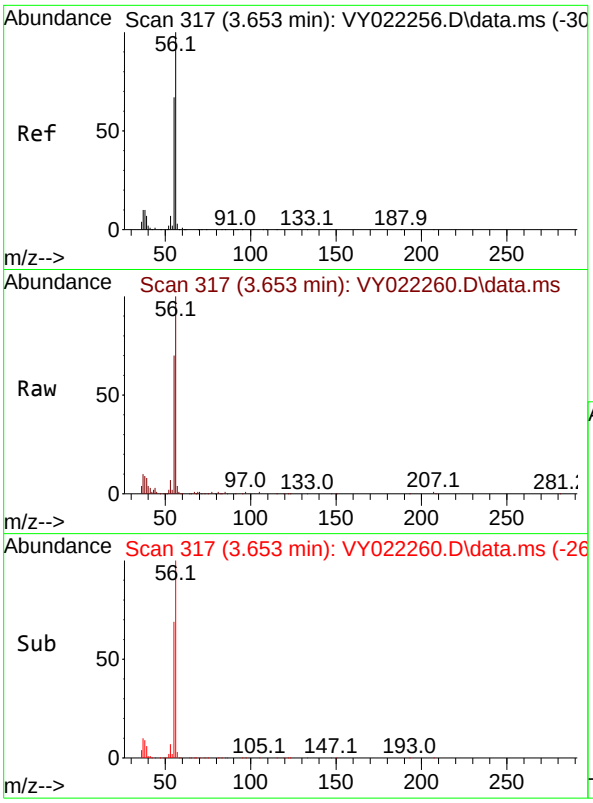




#12
1,1-Dichloroethene
Concen: 51.487 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 96 Resp: 139180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 166.8 | 134.9 | 202.3 |
| 98 | 64.1 | 49.9 | 74.9 |

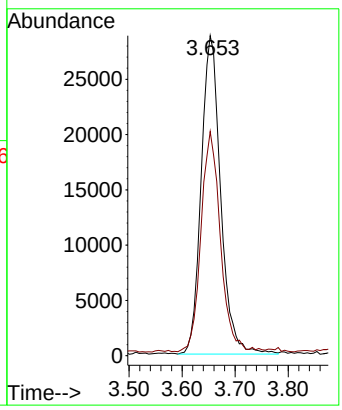





#13
Acrolein
Concen: 238.362 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 56 Resp: 7349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.2 | 55.6 | 83.4 |

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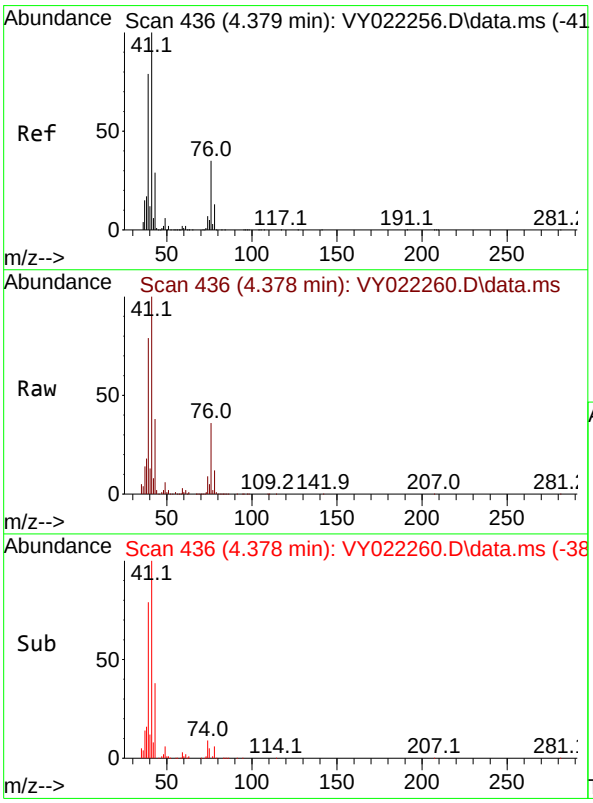
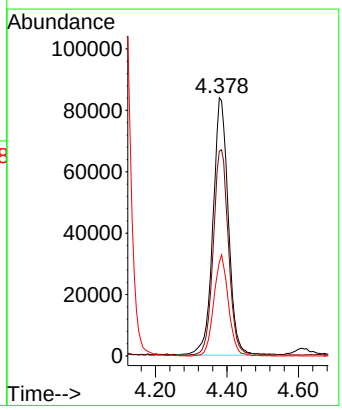
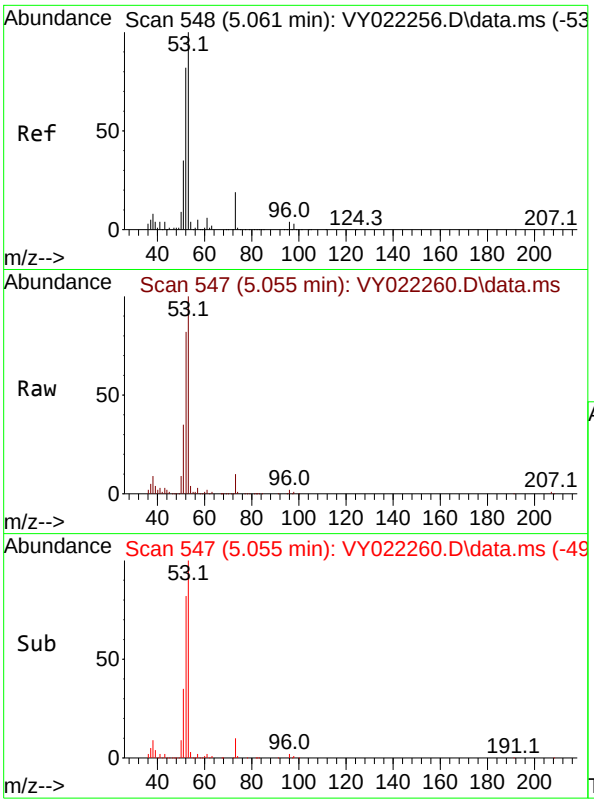



#14
Allyl chloride
Concen: 52.817 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 41 Resp: 250342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 78.9 | 63.4 | 95.0 |
| 76 | 37.0 | 29.5 | 44.3 |

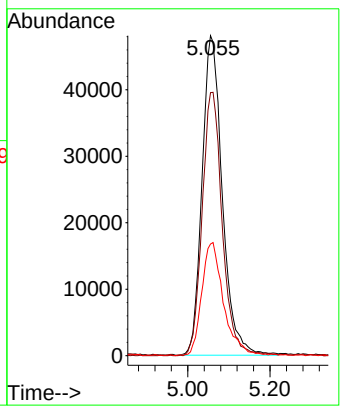





#15
Acrylonitrile
Concen: 265.134 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 53 Resp: 16450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.9 | 66.1 | 99.1 |
| 51 | 38.2 | 30.0 | 45.0 |

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ICVVY051525

**Manual Integrations**
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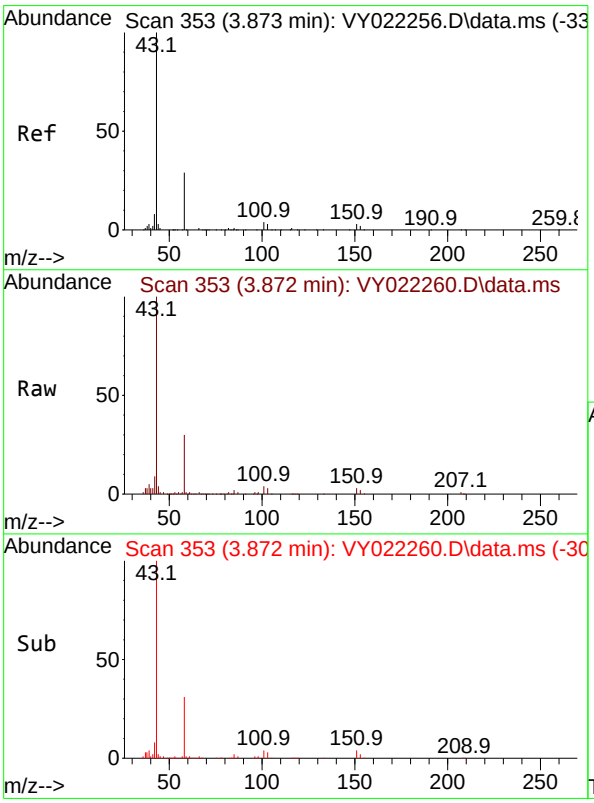
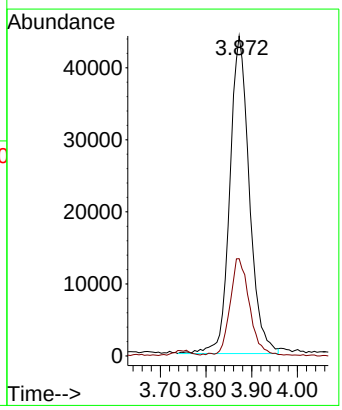
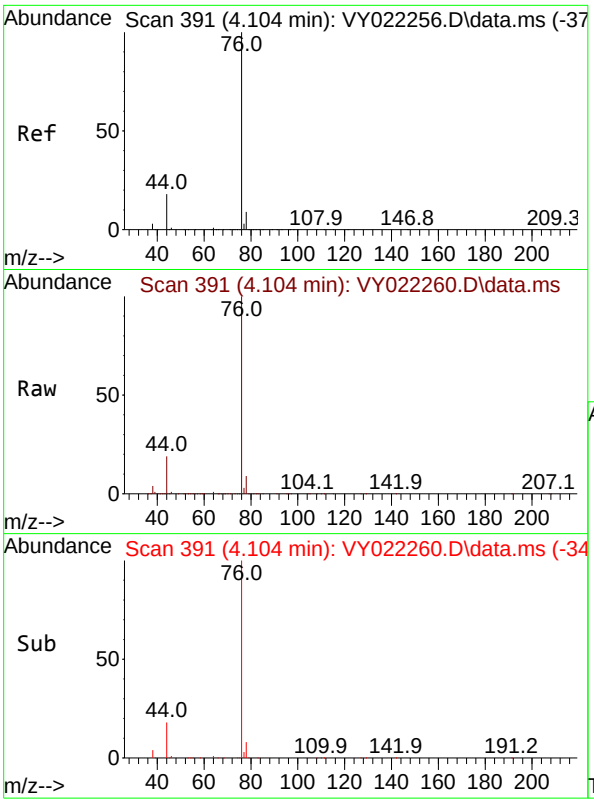



#16
Acetone
Concen: 252.660 ug/l
RT: 3.872 min Scan# 353
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 130848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.2 | 23.6 | 35.4 |

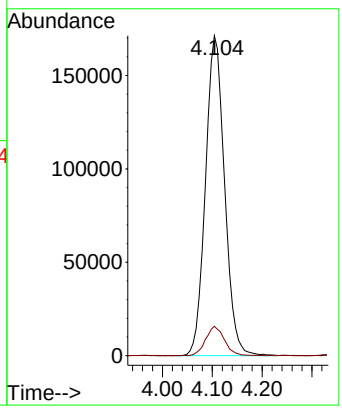





#17
Carbon Disulfide
Concen: 51.765 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 76 Resp: 45630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
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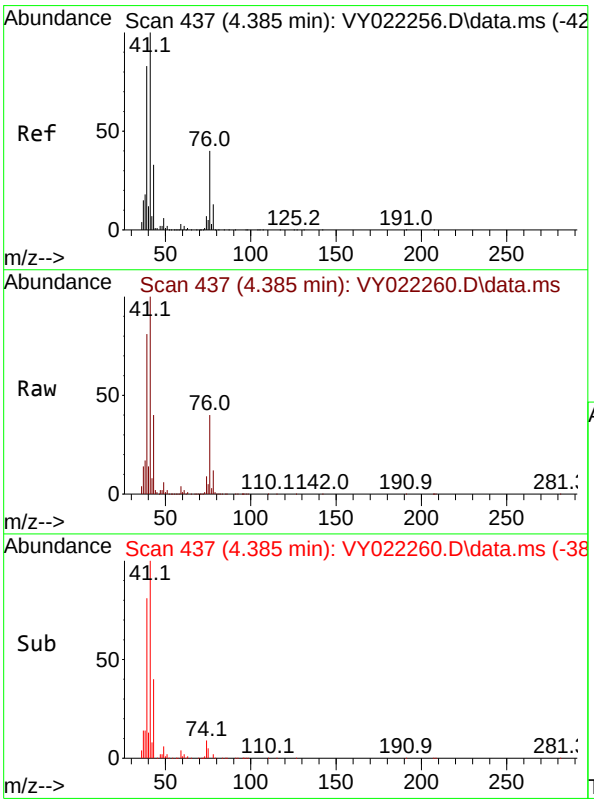
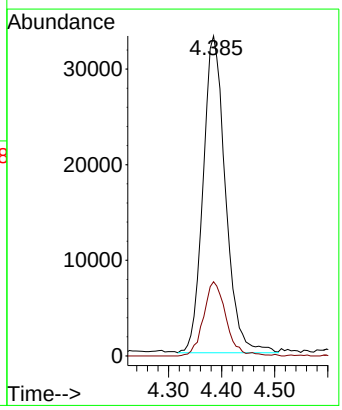
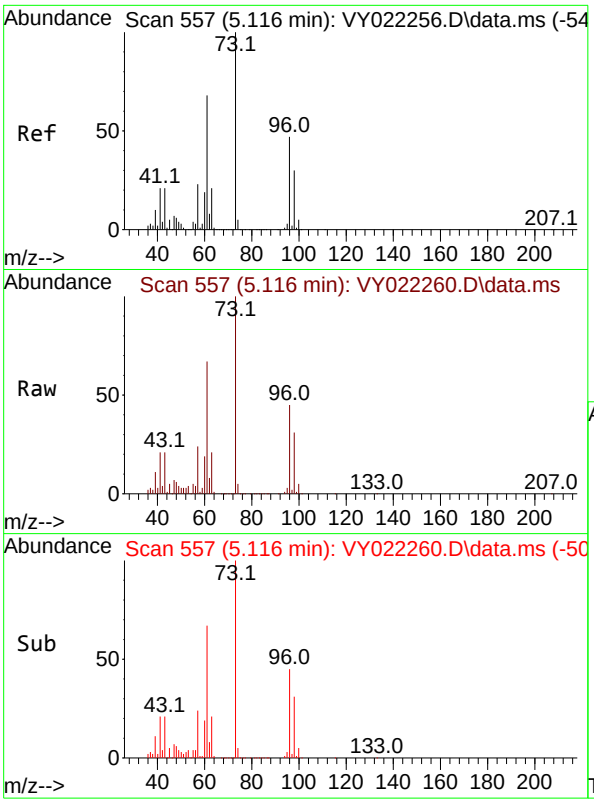



#18
Methyl Acetate
Concen: 59.461 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 97091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.6 | 18.2 | 27.4 |

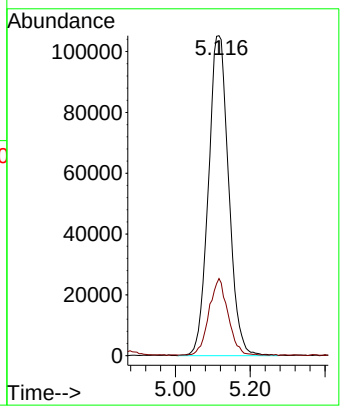





#19
Methyl tert-butyl Ether
Concen: 53.096 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 73 Resp: 39575

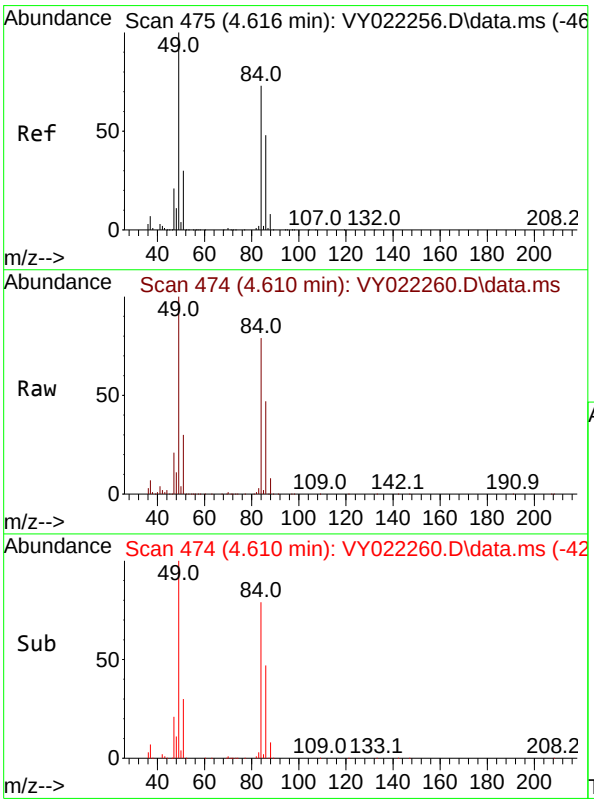
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 24.0 | 18.6 | 28.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
**APPROVED**

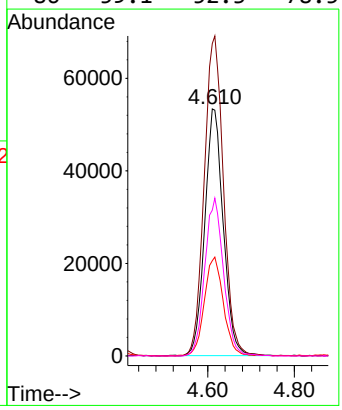
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

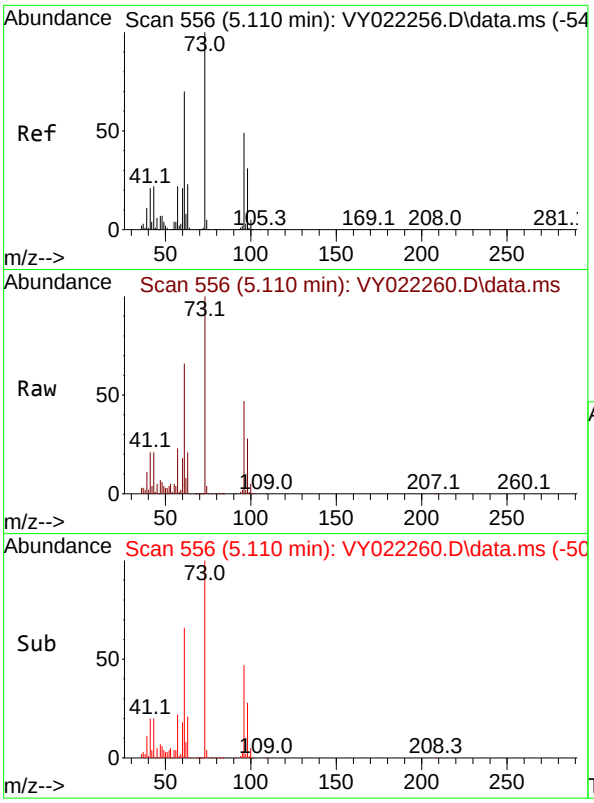



#20
Methylene Chloride
Concen: 47.298 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 84 Resp: 158275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 126.6 | 109.6 | 164.4 |
| 51 | 38.5 | 32.4 | 48.6 |
| 86 | 59.1 | 52.3 | 78.5 |

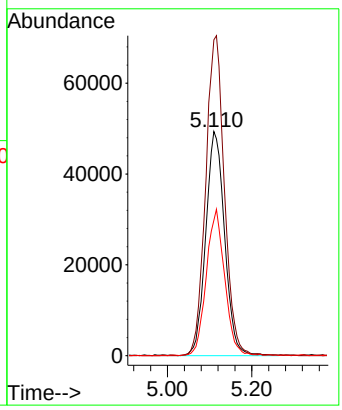





#21
trans-1,2-Dichloroethene
Concen: 51.552 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 96 Resp: 15381

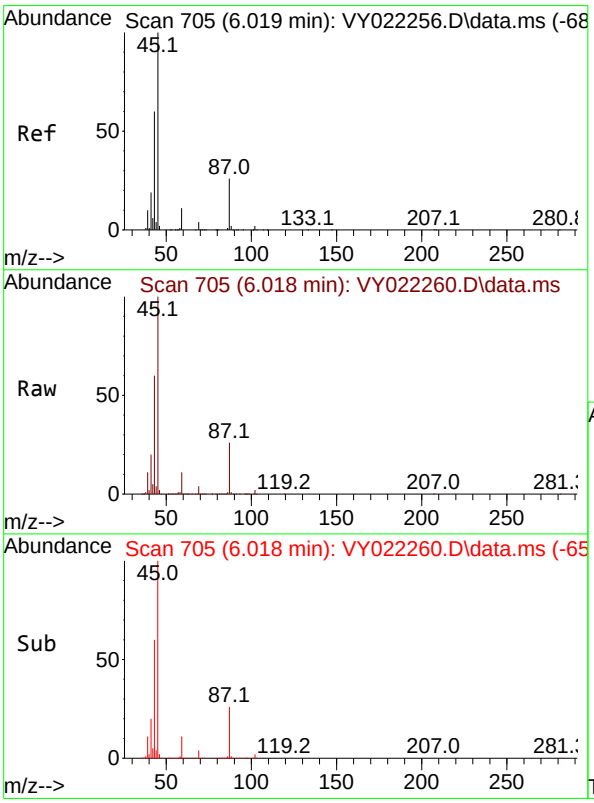
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 140.9 | 113.4 | 170.0 |
| 98 | 60.2 | 50.9 | 76.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

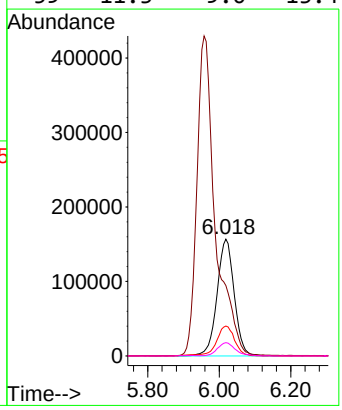
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

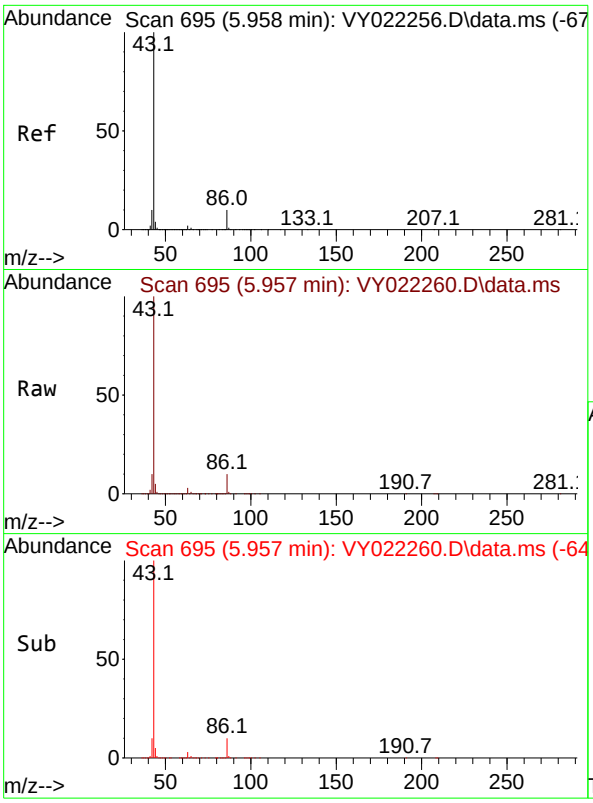



#22
Diisopropyl ether
Concen: 52.085 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 45 Resp: 521343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.9 | 48.2 | 72.2 |
| 87 | 25.6 | 21.4 | 32.0 |
| 59 | 11.3 | 9.0 | 13.4 |

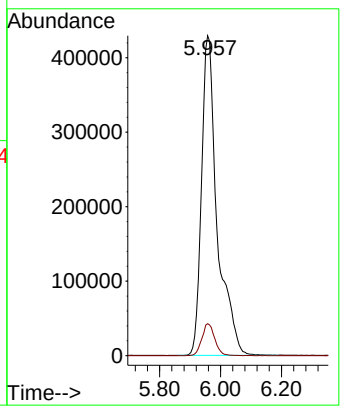





#23
Vinyl Acetate
Concen: 253.098 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 153050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.0 | 7.8 | 11.8 |




**Instrument :**
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ICVVY051525

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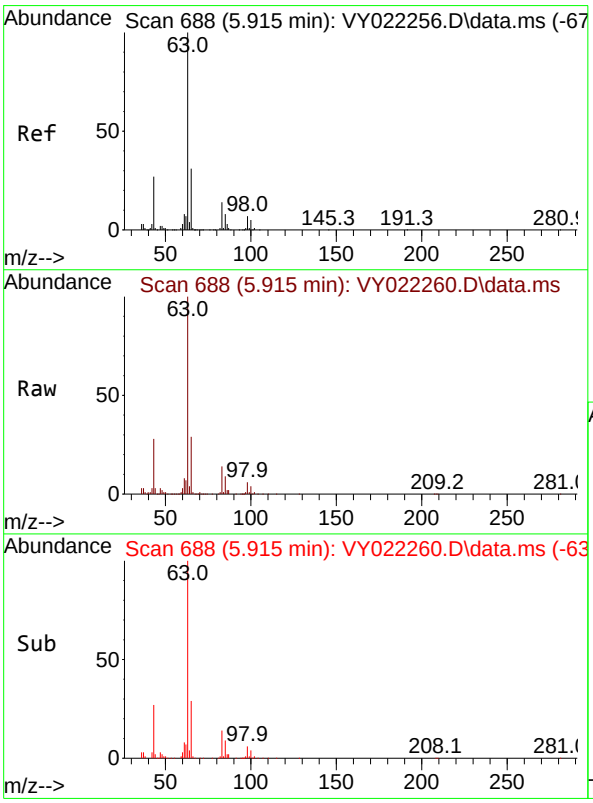
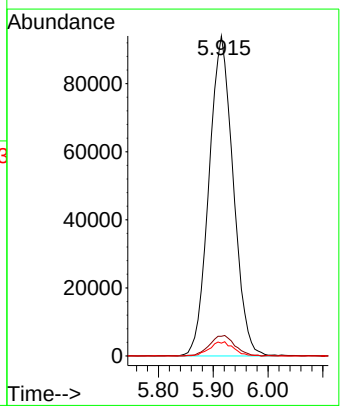
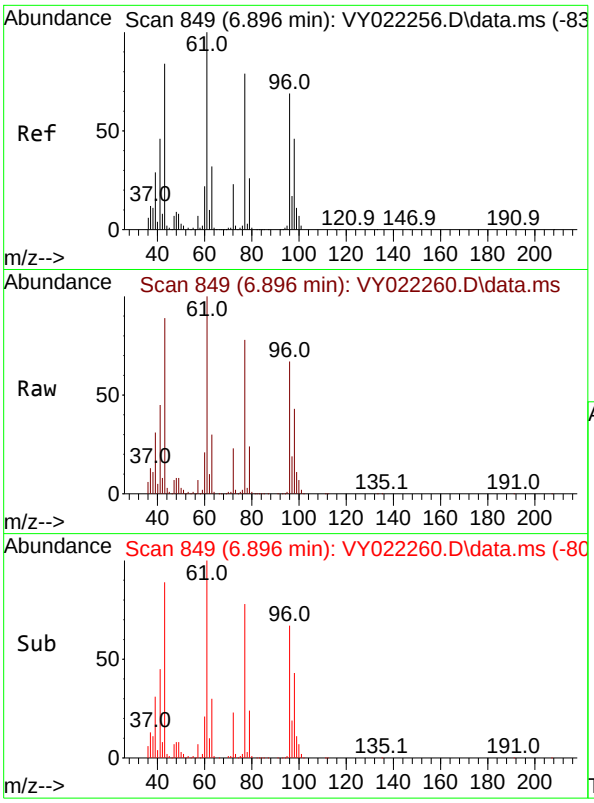



#24
1,1-Dichloroethane
Concen: 51.668 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 63 Resp: 288933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.1 | 3.5 | 10.5 |
| 100 | 4.0 | 2.4 | 7.2 |






#25
2-Butanone
Concen: 255.929 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 22170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.9 | 22.1 | 33.1 |

**Instrument :**
MSVOA_Y
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ICVVY051525

**Manual Integrations**
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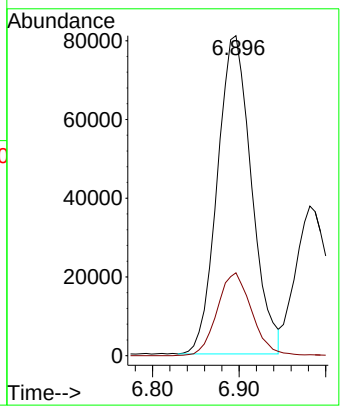
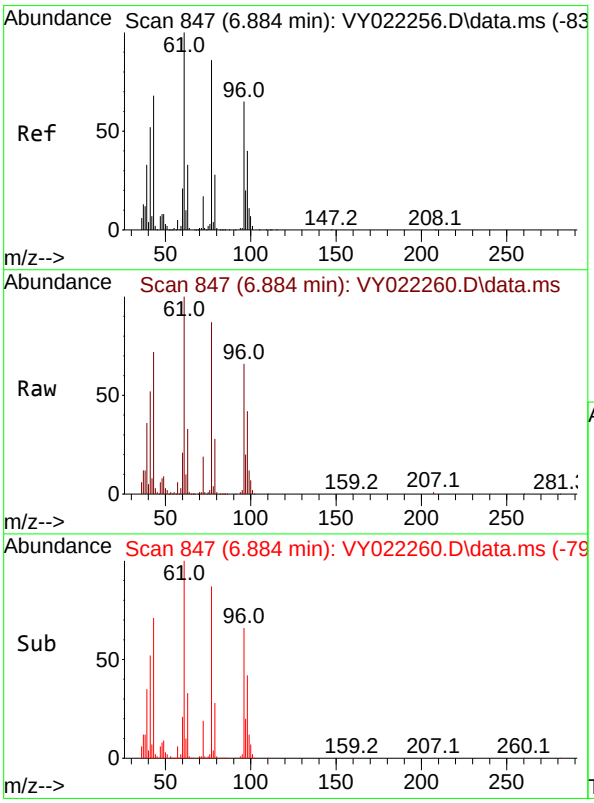
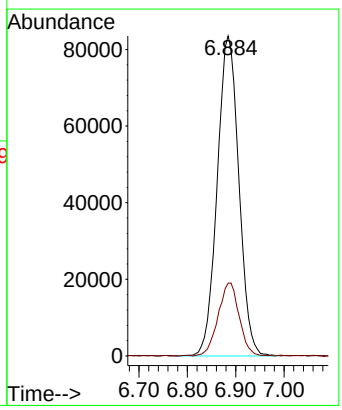


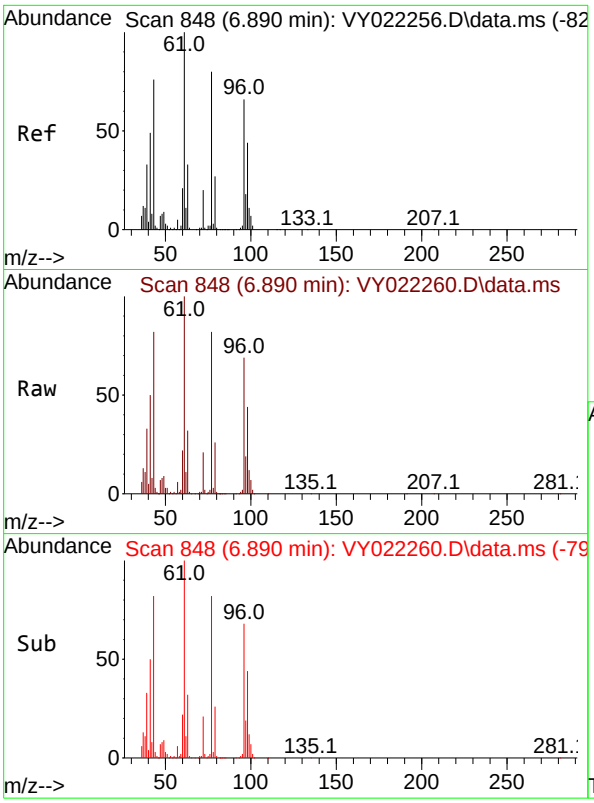




#26
2,2-Dichloropropane
Concen: 52.191 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 77 Resp: 259587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.3 | 11.2 | 33.5 |

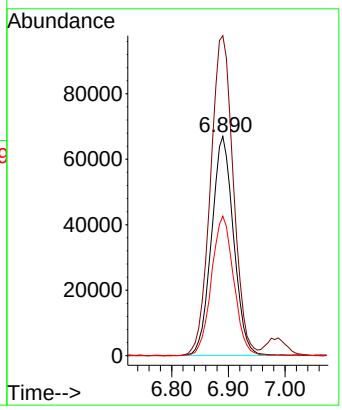





#27
cis-1,2-Dichloroethene
Concen: 52.479 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 96 Resp: 18069

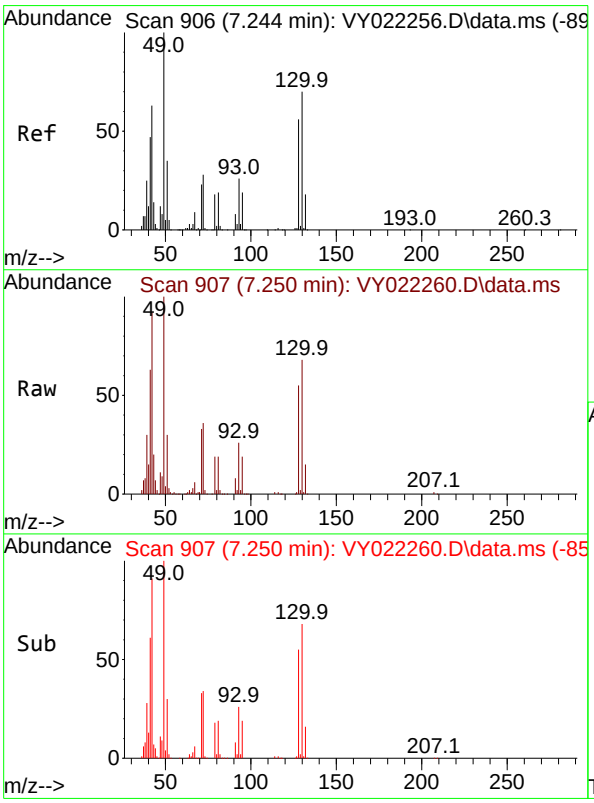
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 151.9 | 0.0 | 302.6 |
| 98 | 64.5 | 0.0 | 128.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

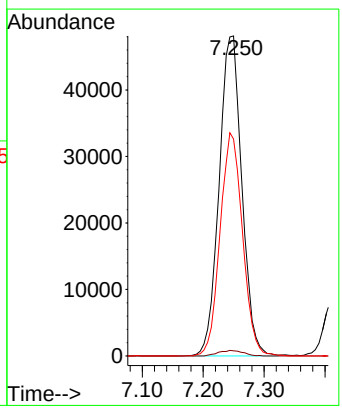
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

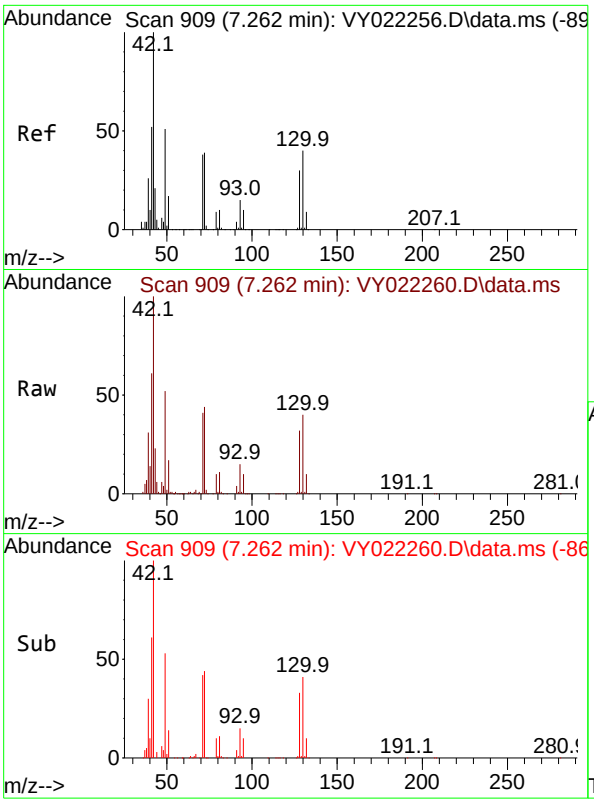



#28
Bromochloromethane
Concen: 52.305 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 49 Resp: 124761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 3.6 |
| 130 | 68.8 | 54.7 | 82.1 |

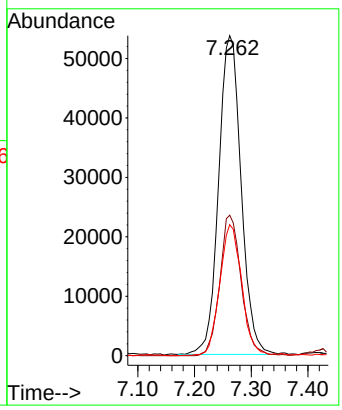





#29
Tetrahydrofuran
Concen: 264.847 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 42 Resp: 14760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.1 | 33.8 | 50.6 |
| 71 | 40.1 | 31.5 | 47.3 |




**Instrument :**
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**ClientSampleId :**
ICVVY051525

**Manual Integrations**
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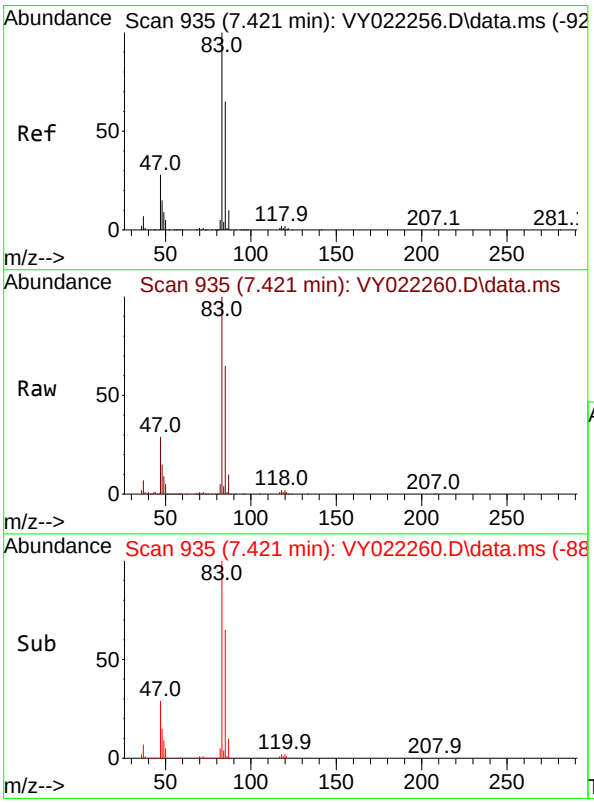
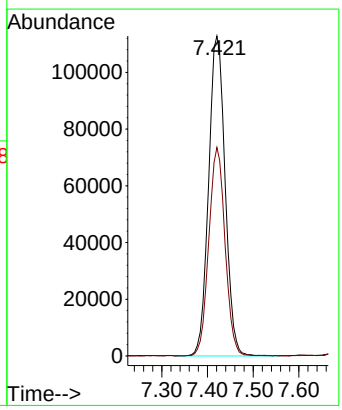
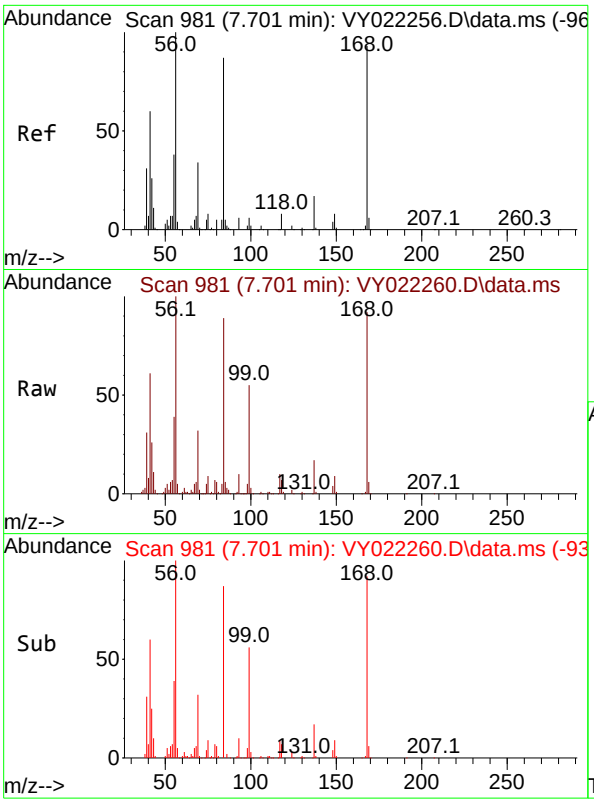



#30
Chloroform
Concen: 52.810 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 83 Resp: 283264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.1 | 51.8 | 77.8 |

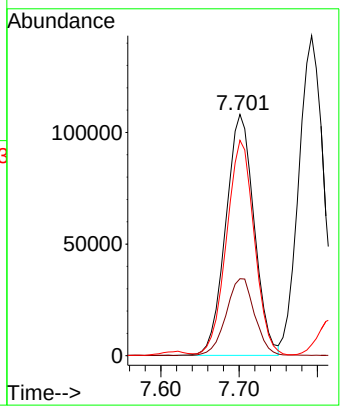





#31
Cyclohexane
Concen: 48.673 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 56 Resp: 27194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.8 | 27.4 | 41.2 |
| 84 | 87.5 | 70.0 | 105.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

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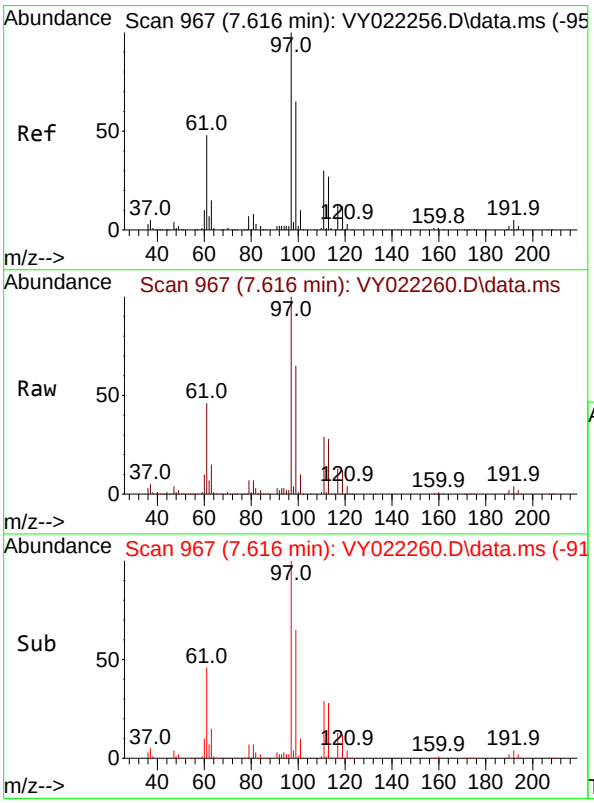
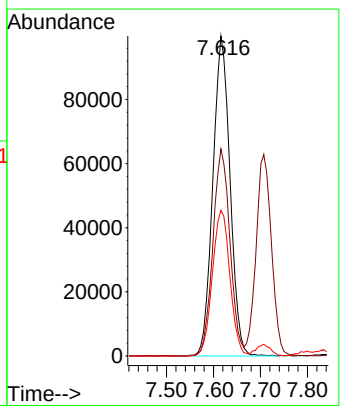
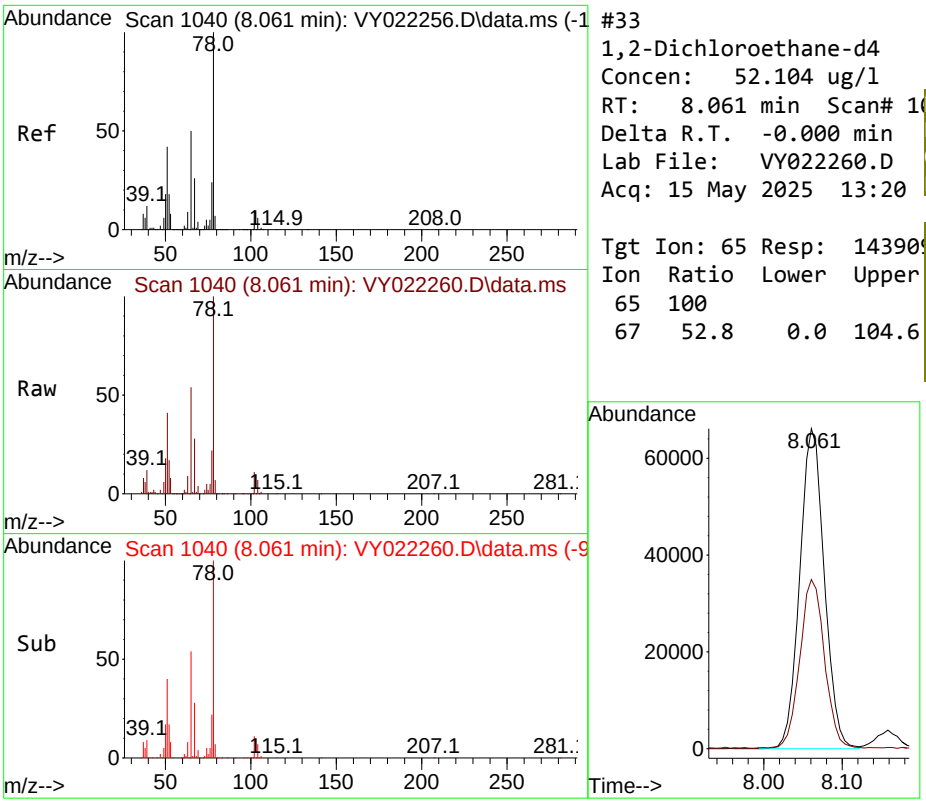



#32
1,1,1-Trichloroethane
Concen: 51.523 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 97 Resp: 253549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.3 | 51.4 | 77.0 |
| 61 | 46.6 | 38.1 | 57.1 |






#33
1,2-Dichloroethane-d4
Concen: 52.104 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 65 Resp: 14390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.8 | 0.0 | 104.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

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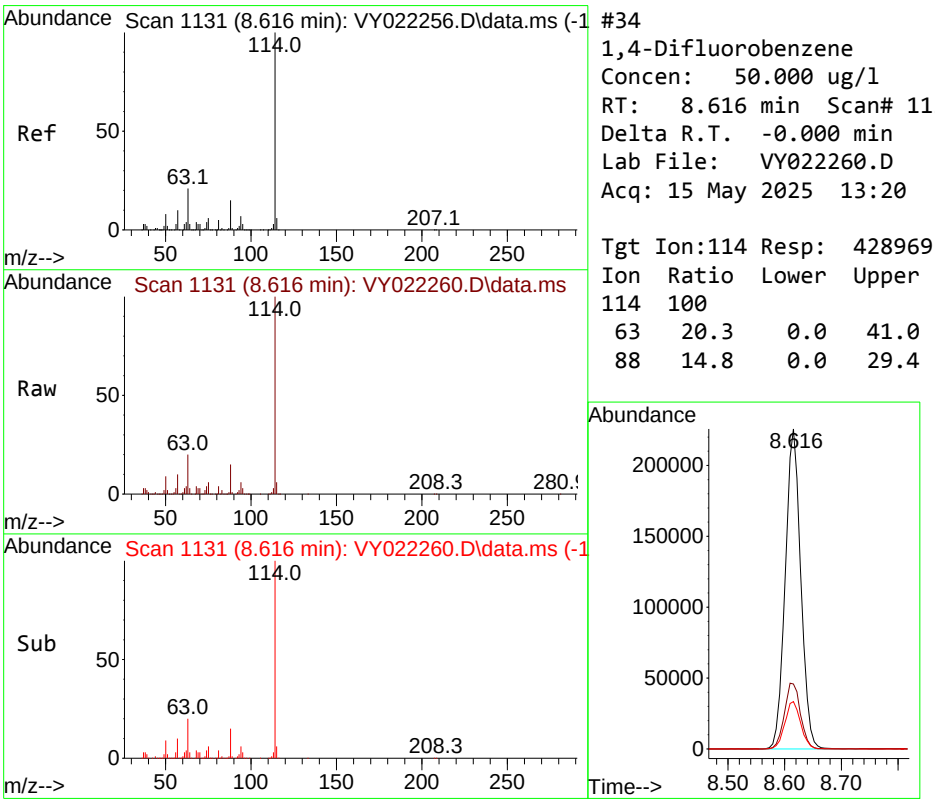
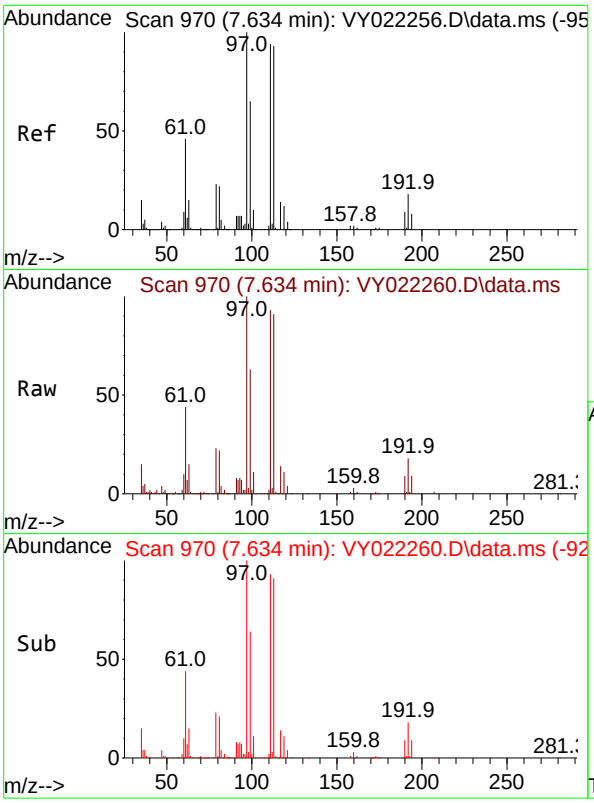



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:114 Resp: 428969

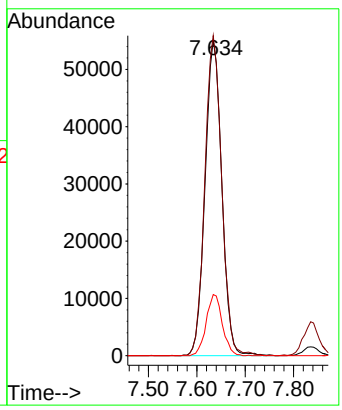
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.3 | 0.0 | 41.0 |
| 88 | 14.8 | 0.0 | 29.4 |




#35
Dibromofluoromethane
Concen: 51.658 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:113 Resp: 13226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.1 | 82.6 | 123.8 |
| 192 | 18.7 | 15.2 | 22.8 |




**Instrument :**
MSVOA_Y
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ICVVY051525

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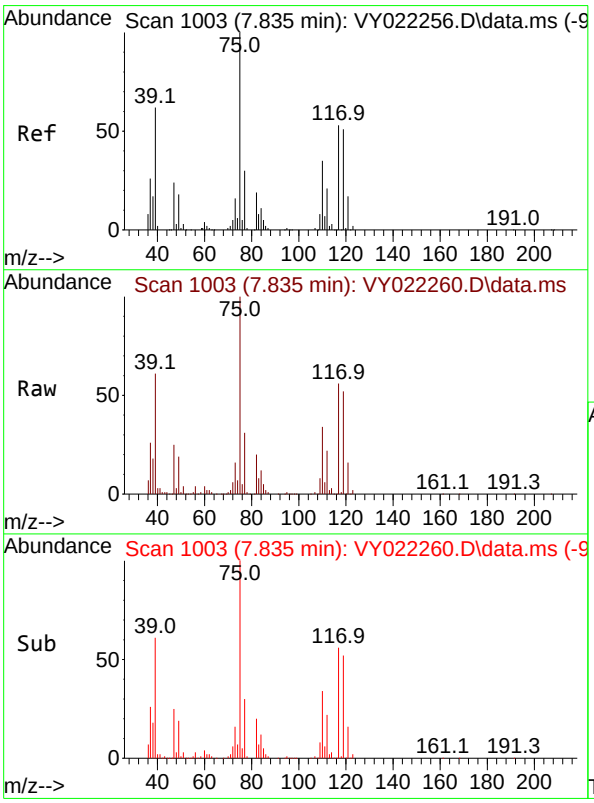
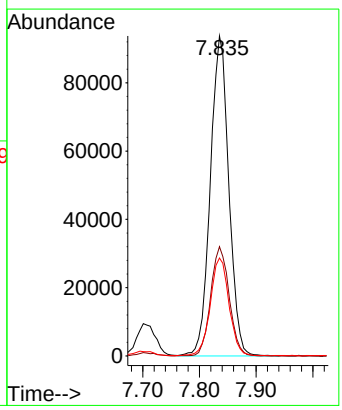
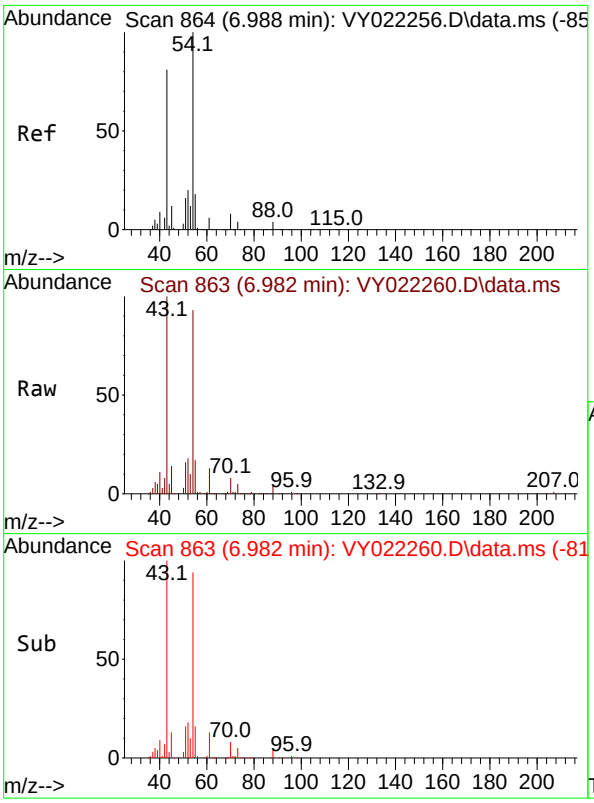



#36
1,1-Dichloropropene
Concen: 50.457 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 212786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.0 | 16.6 | 49.8 |
| 77 | 30.7 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 50.633 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

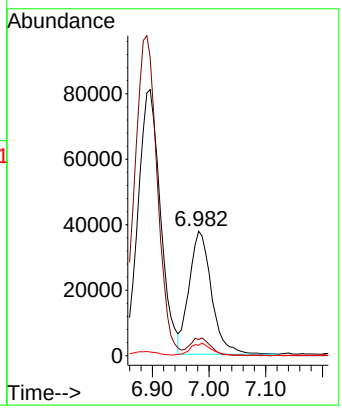
Tgt Ion: 43 Resp: 10274

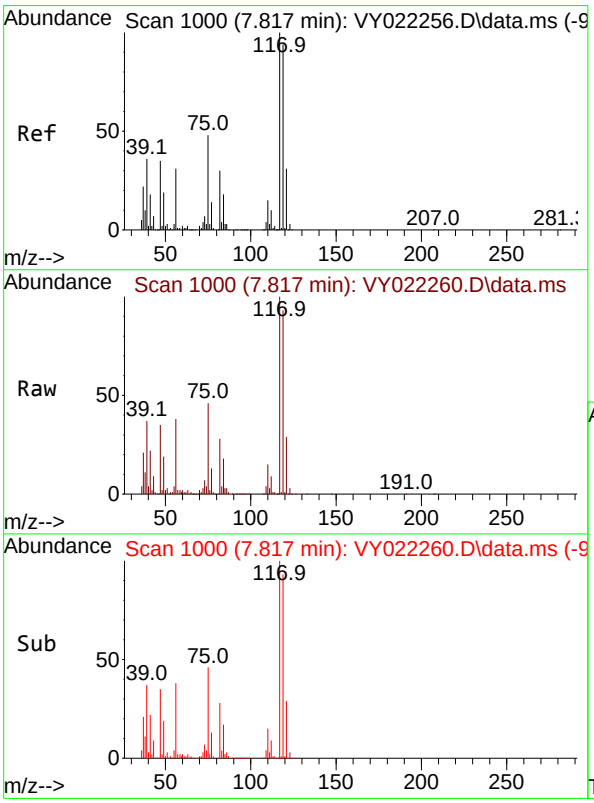
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.9 | 10.2 | 15.2 |
| 70 | 8.8 | 7.6 | 11.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

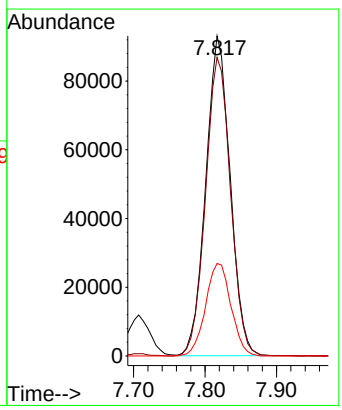


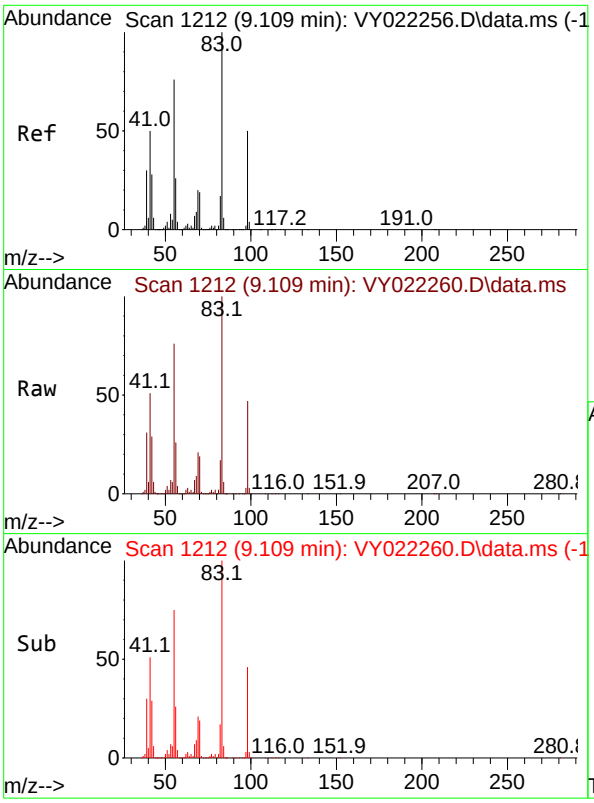




#38
Carbon Tetrachloride
Concen: 50.543 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:117 Resp: 220636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.3 | 75.3 | 112.9 |
| 121 | 28.9 | 24.7 | 37.1 |

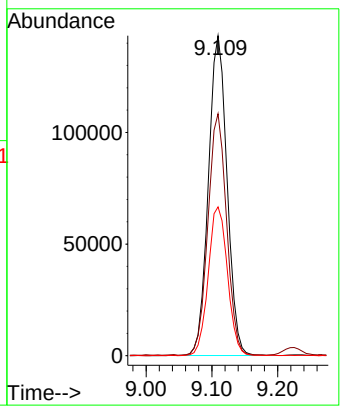





#39
Methylcyclohexane
Concen: 50.015 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 83 Resp: 28337

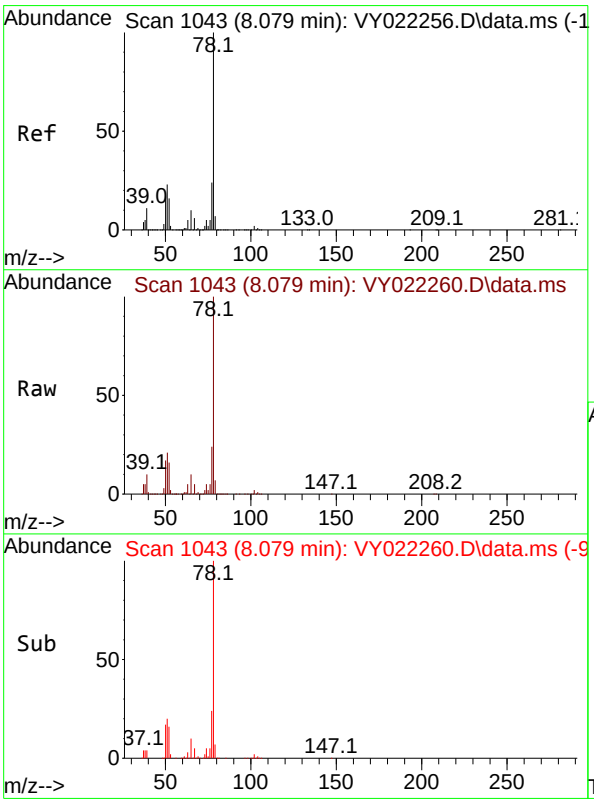
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 75.5 | 60.6 | 90.8 |
| 98 | 46.5 | 40.0 | 60.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
**APPROVED**

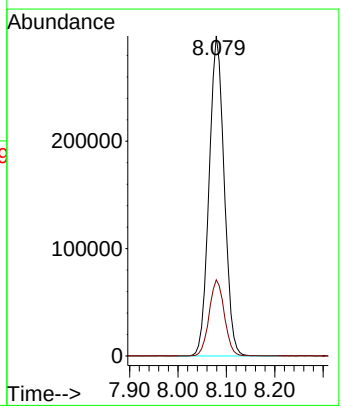
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

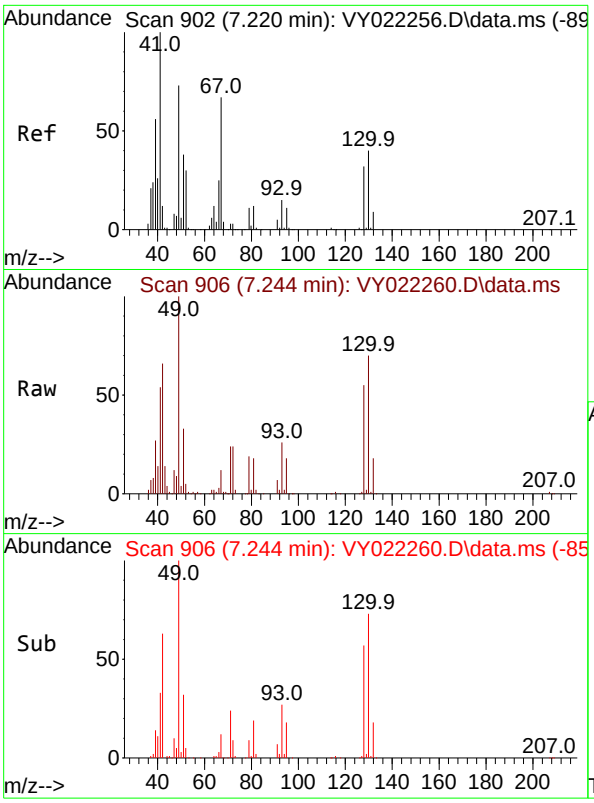



#40
Benzene
Concen: 51.696 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 78 Resp: 646289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.8 | 18.9 | 28.3 |

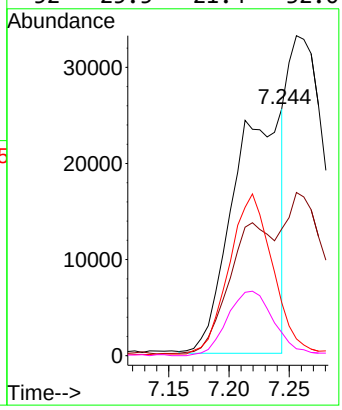





#41
Methacrylonitrile
Concen: 53.599 ug/l m
RT: 7.244 min Scan# 9
Delta R.T. 0.024 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 41 Resp: 7214

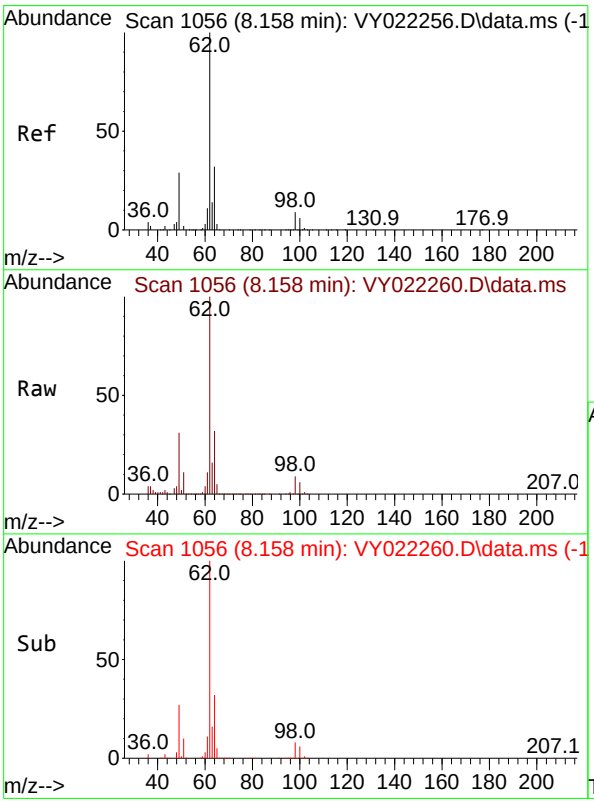
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 48.1 | 39.1 | 58.7 |
| 67 | 58.4 | 47.1 | 70.7 |
| 52 | 25.5 | 21.4 | 32.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
**APPROVED**

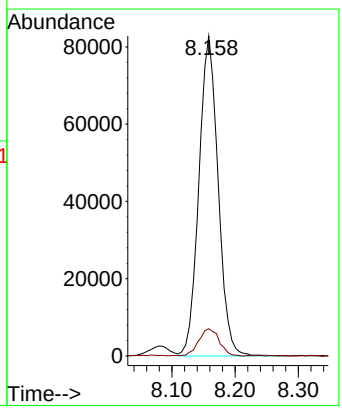
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

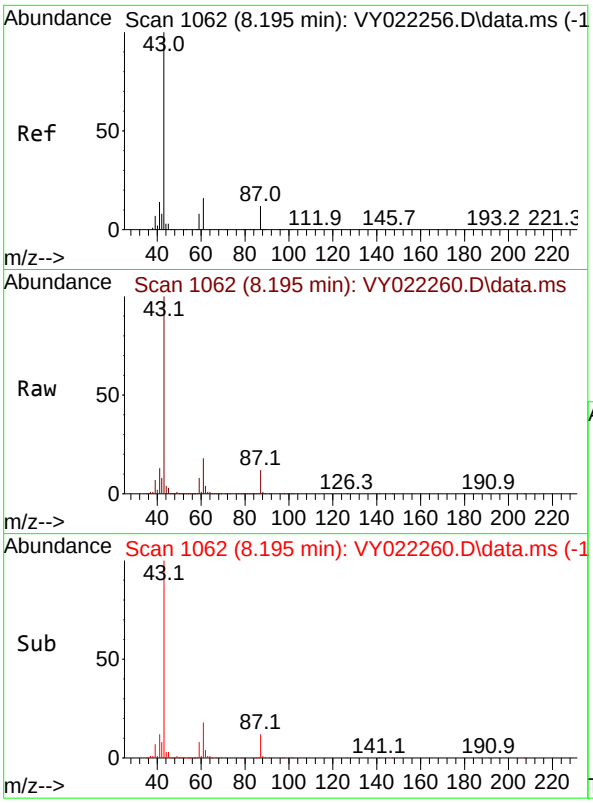



#42
1,2-Dichloroethane
Concen: 51.834 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 62 Resp: 175241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.1 | 0.0 | 18.4 |






#43
Isopropyl Acetate
Concen: 51.415 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

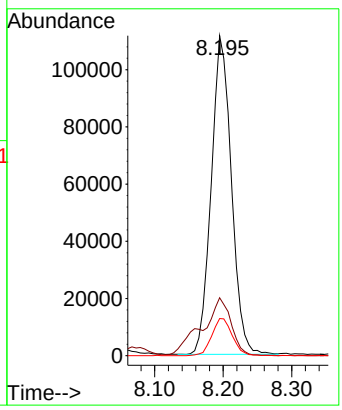
Tgt Ion: 43 Resp: 22752

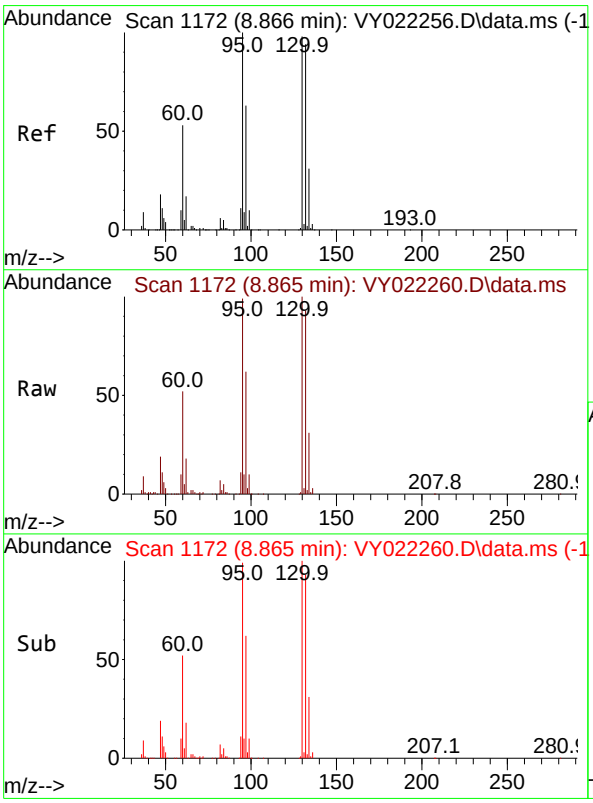
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 26.5 | 15.1 | 22.7# |
| 87 | 11.9 | 9.7 | 14.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

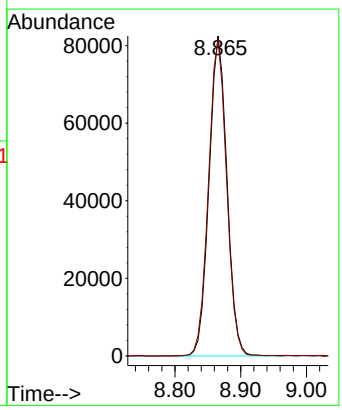


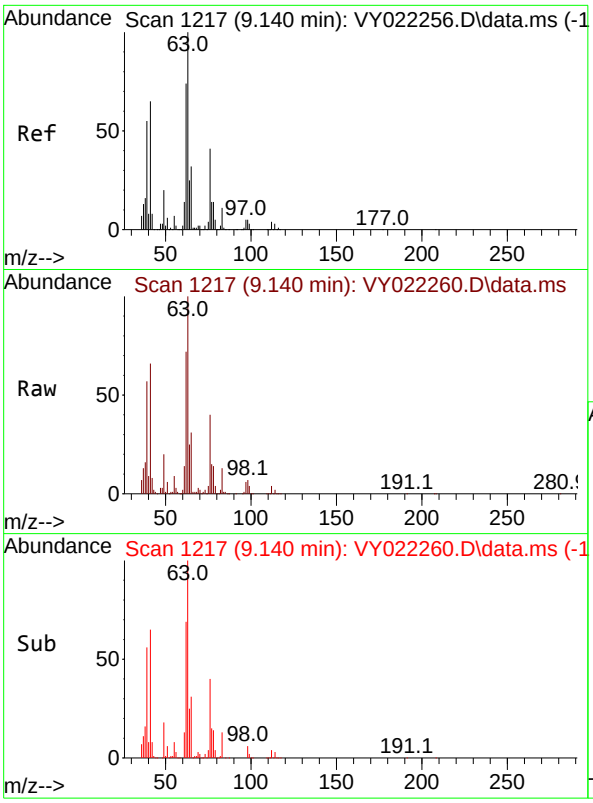




#44
Trichloroethene
Concen: 50.335 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:130 Resp: 156468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.6 | 0.0 | 204.8 |

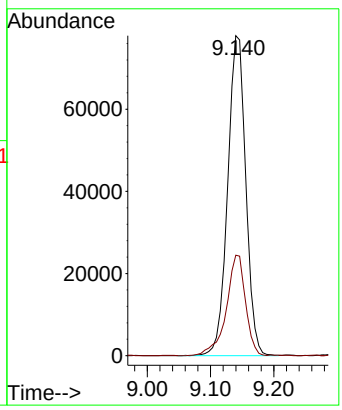





#45
1,2-Dichloropropane
Concen: 51.417 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 63 Resp: 15497

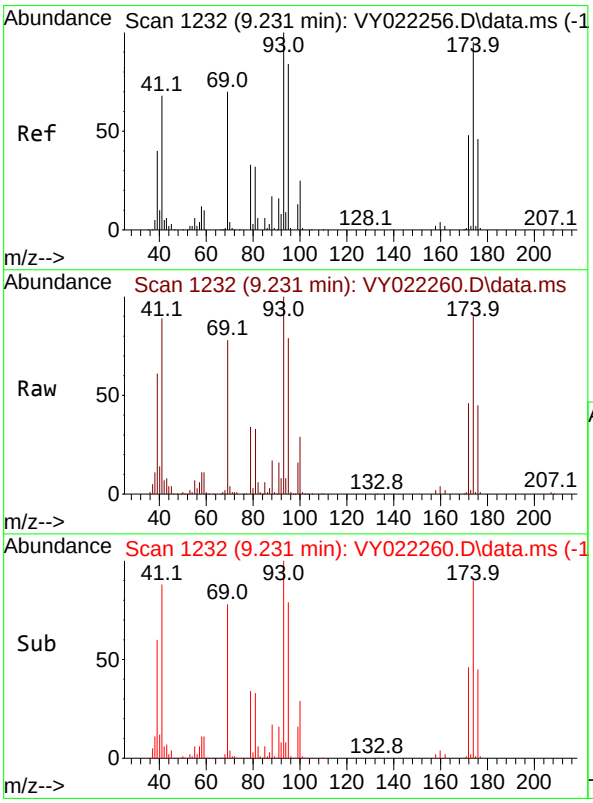
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.4 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
**APPROVED**

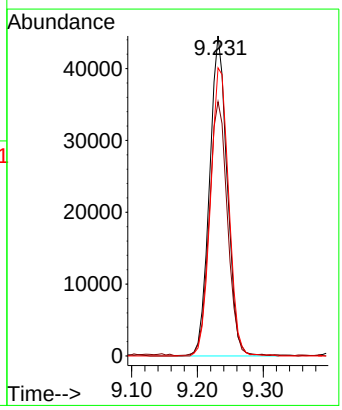
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

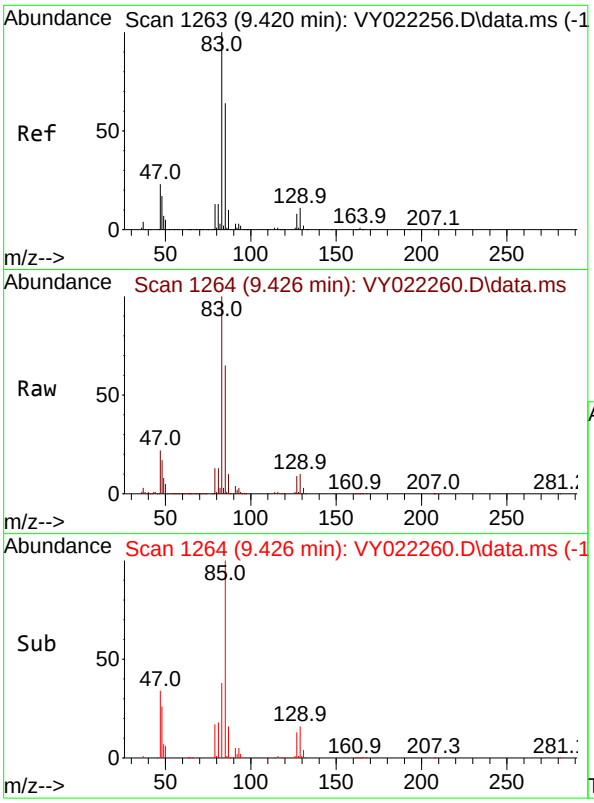



#46
Dibromomethane
Concen: 51.423 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 93 Resp: 83597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.4 | 65.2 | 97.8 |
| 174 | 92.4 | 74.3 | 111.5 |

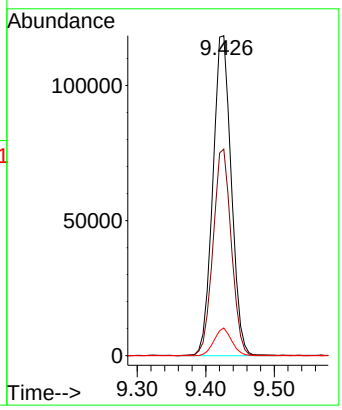





#47
Bromodichloromethane
Concen: 52.508 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 83 Resp: 22144

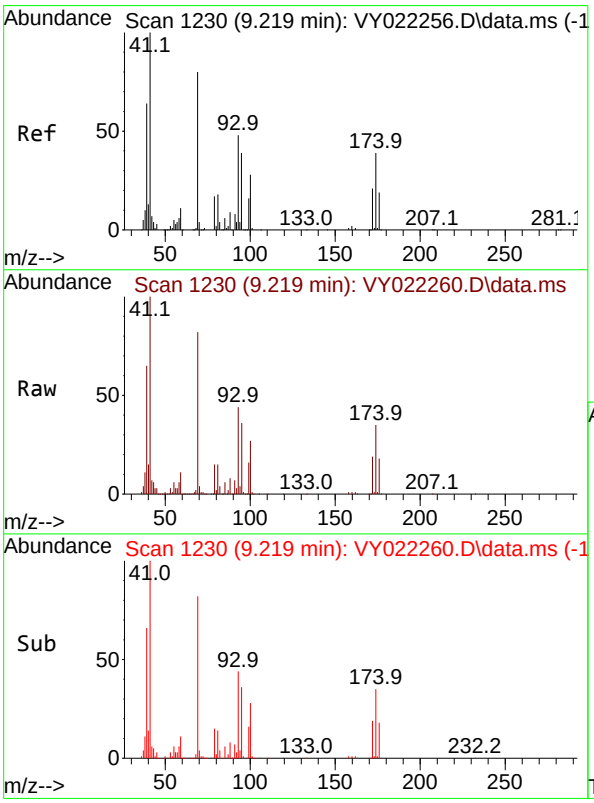
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 51.1 | 76.7 |
| 127 | 8.6 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

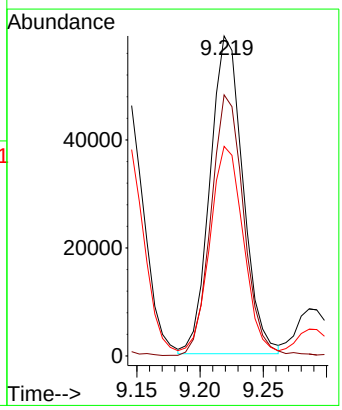
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

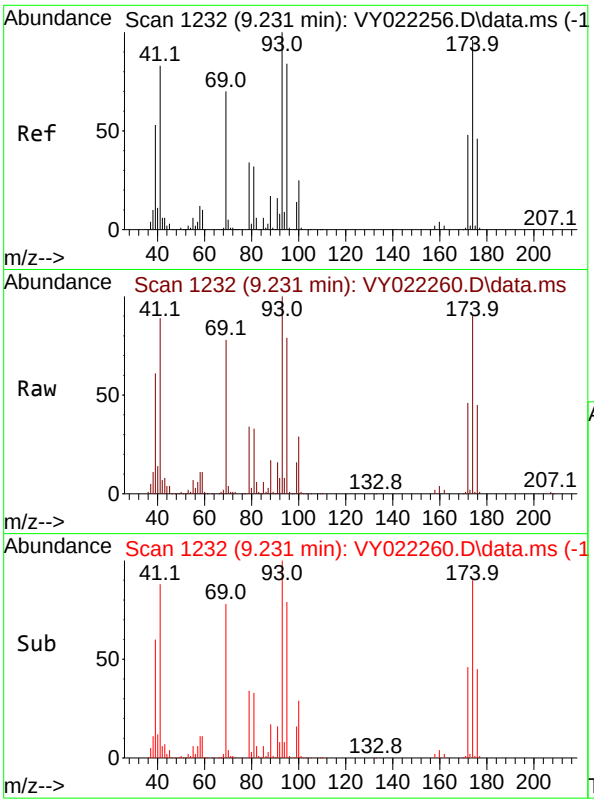



#48
Methyl methacrylate
Concen: 51.357 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 41 Resp: 106283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 81.5 | 63.5 | 95.3 |
| 39 | 64.6 | 50.8 | 76.2 |

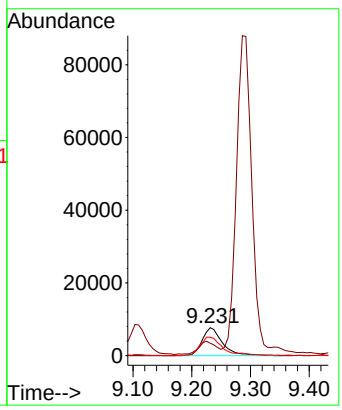





#49
1,4-Dioxane
Concen: 1008.479 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 88 Resp: 1852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 40.7 | 28.5 | 42.7 |
| 58 | 74.5 | 61.4 | 92.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 05/16/2025
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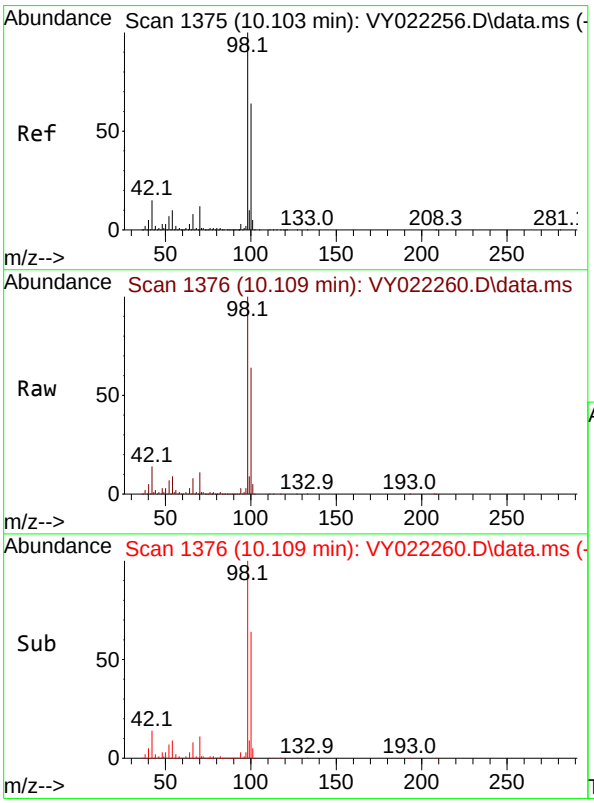
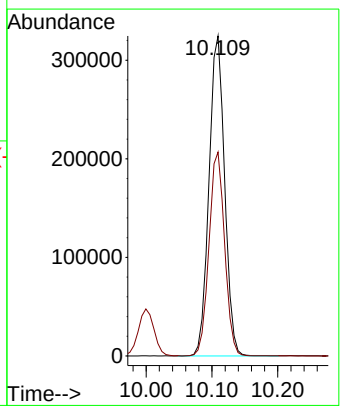
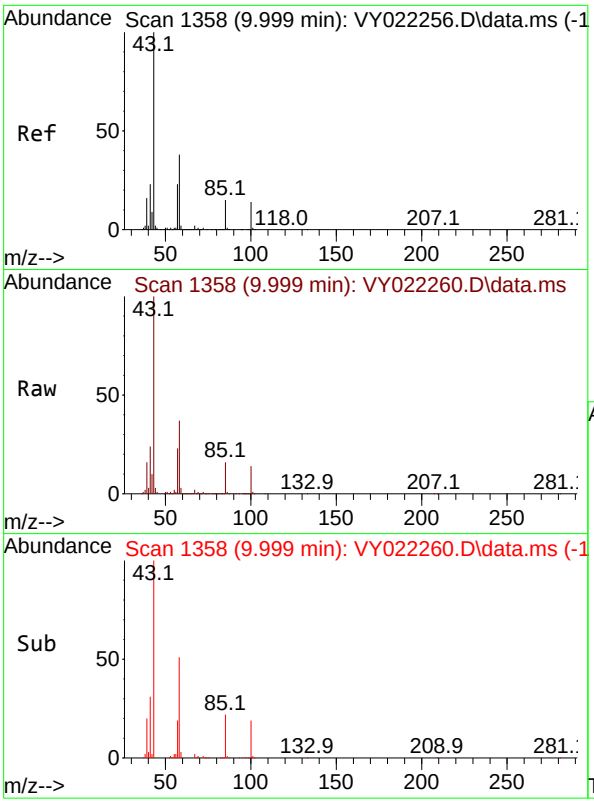



#50
Toluene-d8
Concen: 51.229 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 98 Resp: 537188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.6 | 51.8 | 77.8 |

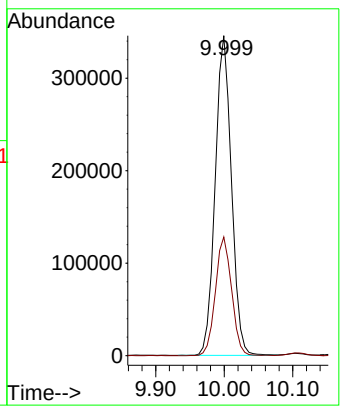





#51
4-Methyl-2-Pentanone
Concen: 261.463 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 56772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.1 | 29.4 | 44.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
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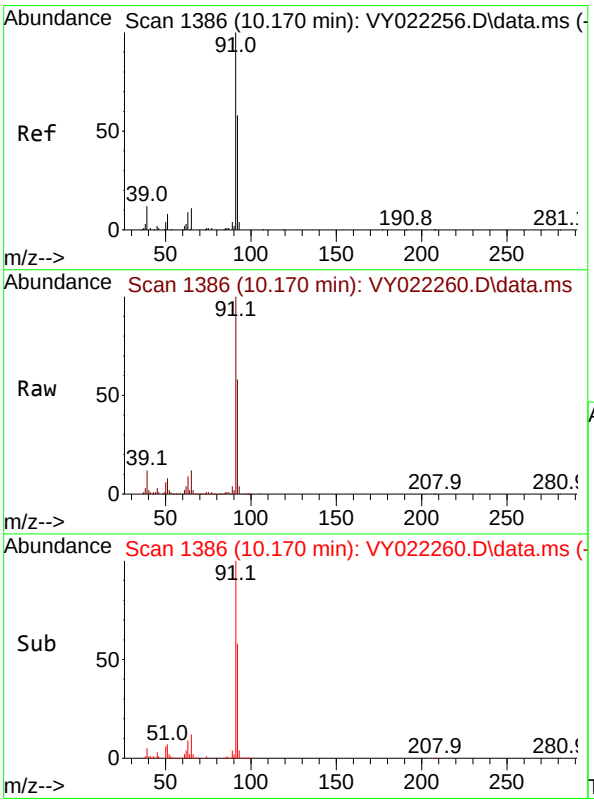
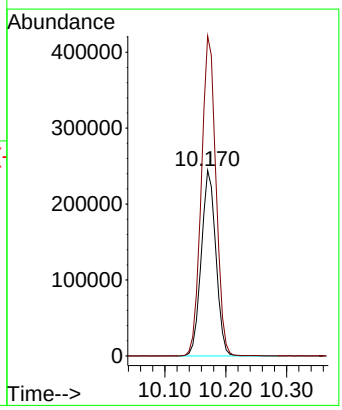
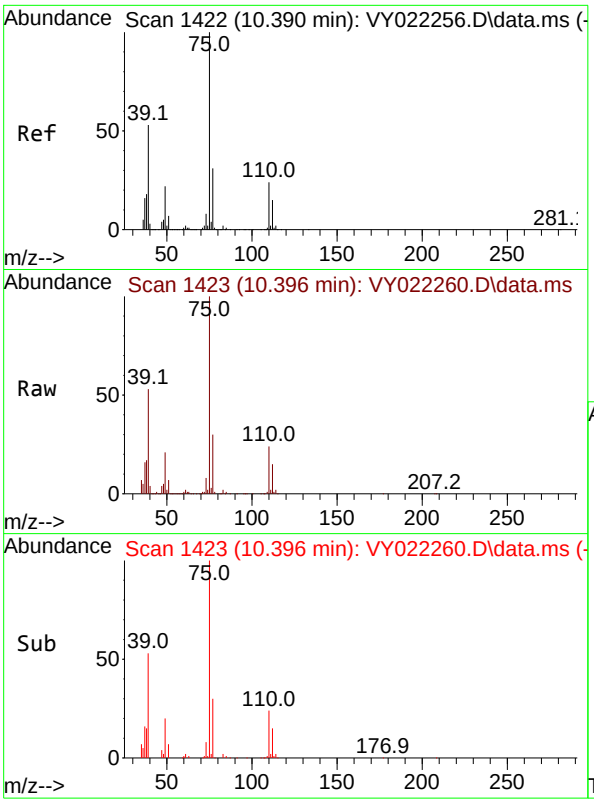



#52
Toluene
Concen: 51.337 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 92 Resp: 406420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.0 | 139.1 | 208.7 |

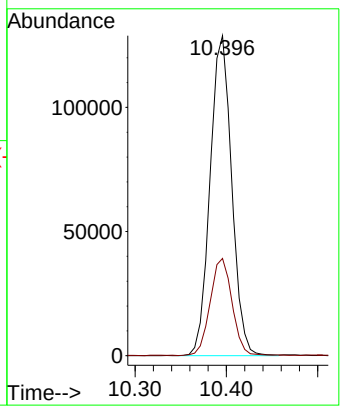





#53
t-1,3-Dichloropropene
Concen: 51.458 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 21179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.4 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 05/16/2025
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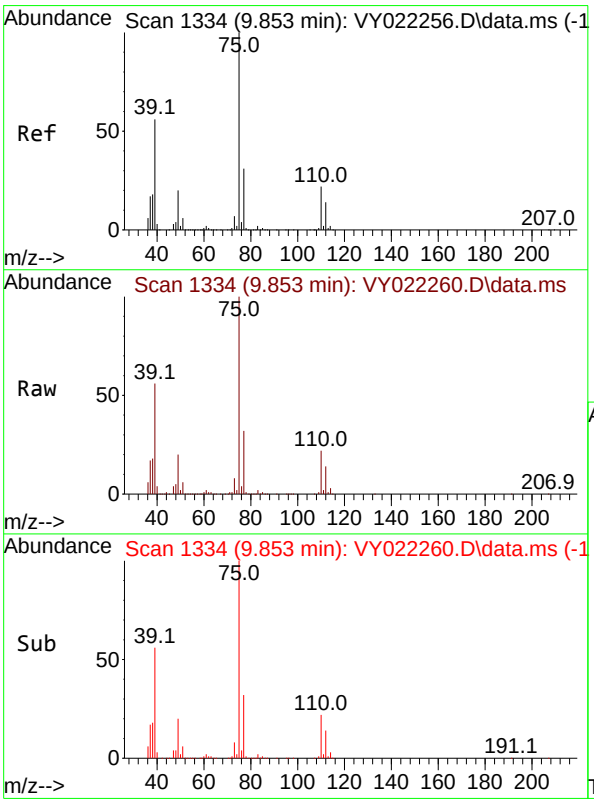
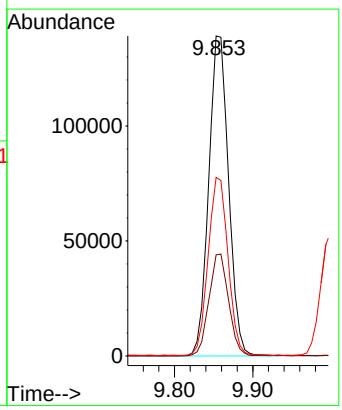
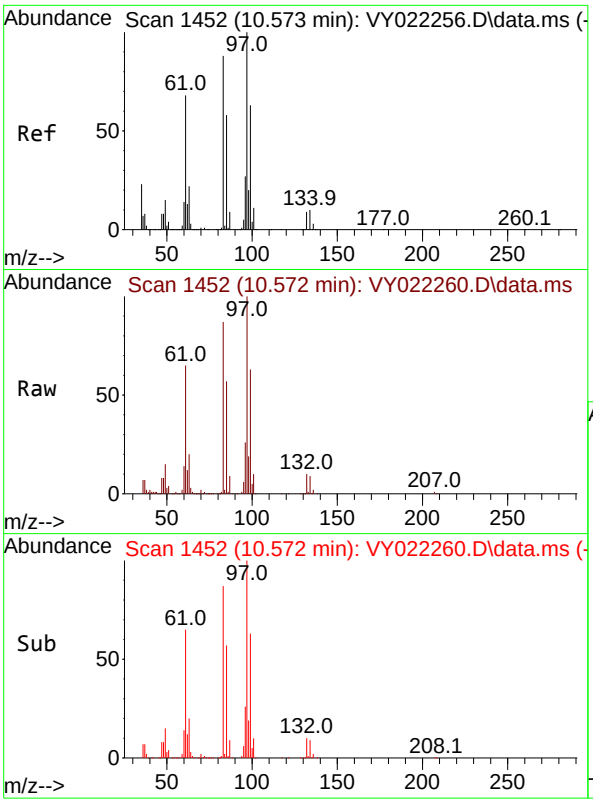



#54
cis-1,3-Dichloropropene
Concen: 51.916 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 244811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.5 | 25.1 | 37.7 |
| 39 | 55.6 | 44.5 | 66.7 |

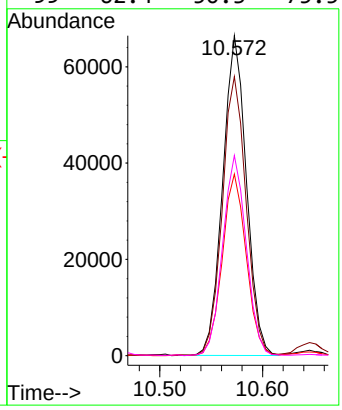





#55
1,1,2-Trichloroethane
Concen: 51.142 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 97 Resp: 10646

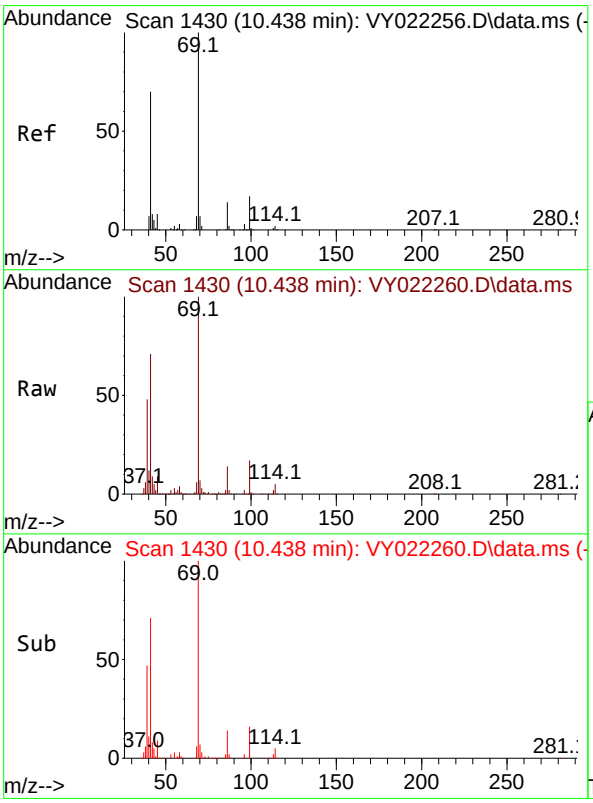
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.0 | 70.3 | 105.5 |
| 85 | 56.6 | 46.2 | 69.4 |
| 99 | 62.4 | 50.3 | 75.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

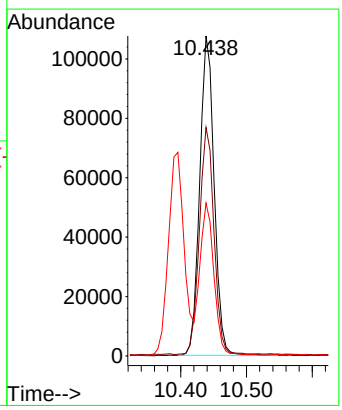
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

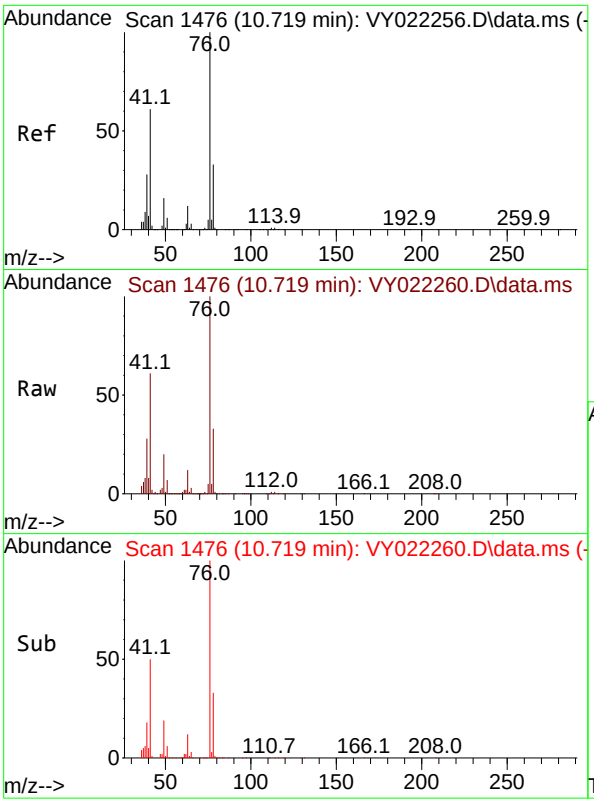



#56
Ethyl methacrylate
Concen: 50.639 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 69 Resp: 164207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 71.9 | 56.5 | 84.7 |
| 39 | 45.6 | 37.1 | 55.7 |

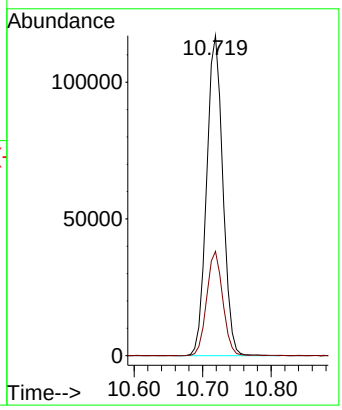





#57
1,3-Dichloropropane
Concen: 51.880 ug/l
RT: 10.719 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 76 Resp: 19188

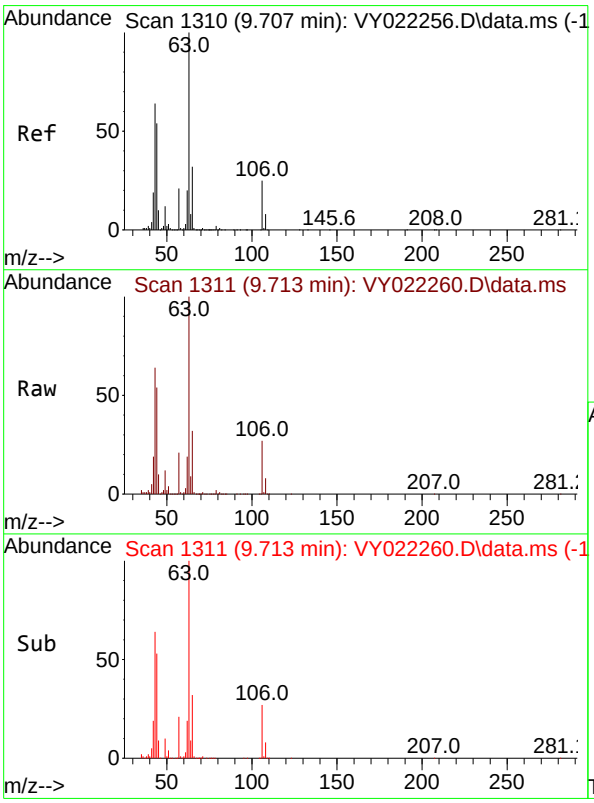
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.4 | 25.8 | 38.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

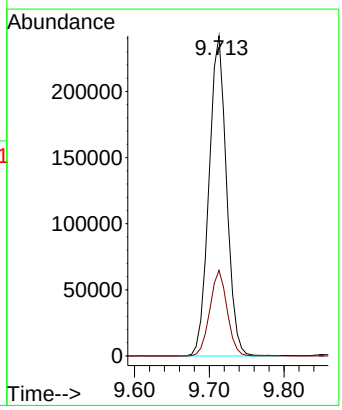
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

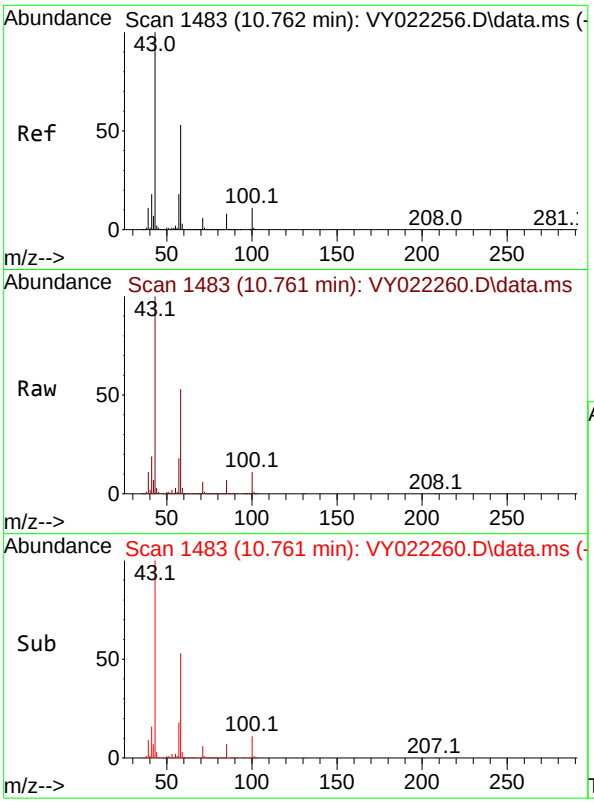



#58
2-Chloroethyl Vinyl ether
Concen: 271.104 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 63 Resp: 394587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.3 | 21.0 | 31.4 |






#59
2-Hexanone
Concen: 257.738 ug/l
RT: 10.761 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 37522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 52.0 | 26.1 | 78.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
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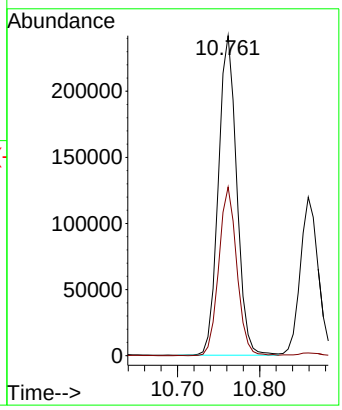
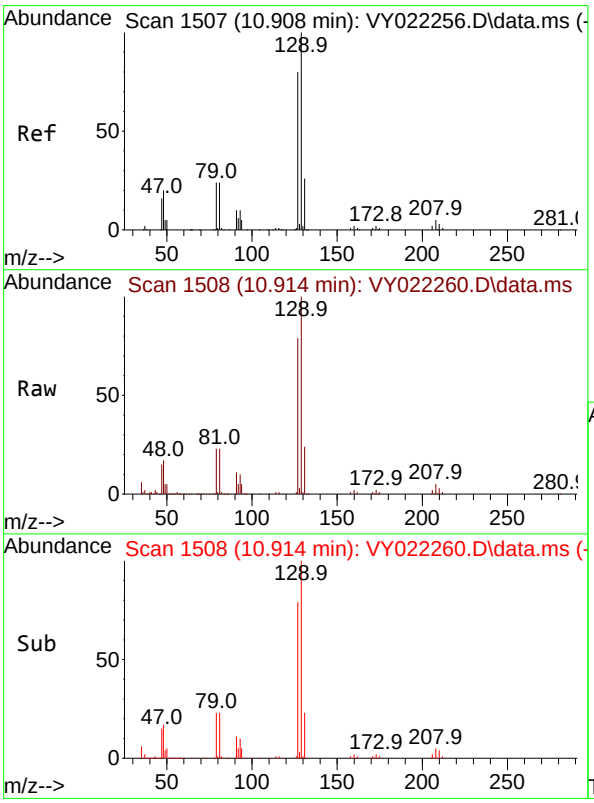
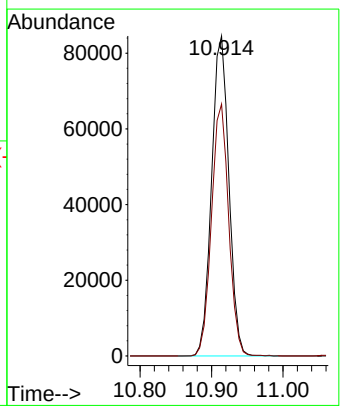


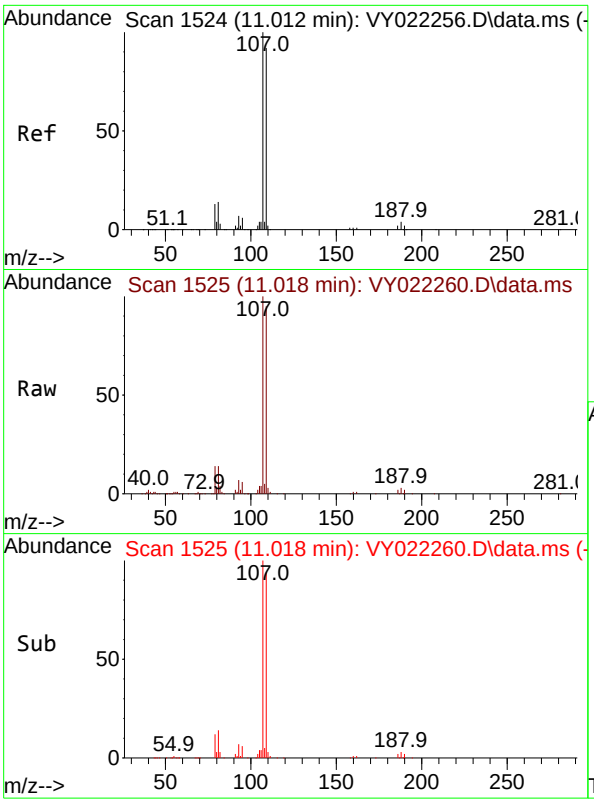




#60
Dibromochloromethane
Concen: 52.425 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:129 Resp: 141652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.4 | 38.6 | 115.7 |

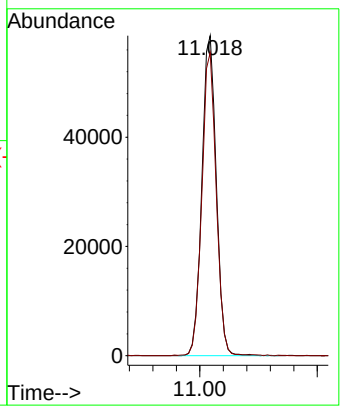





#61
1,2-Dibromoethane
Concen: 51.428 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:107 Resp: 9978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.4 | 74.6 | 111.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
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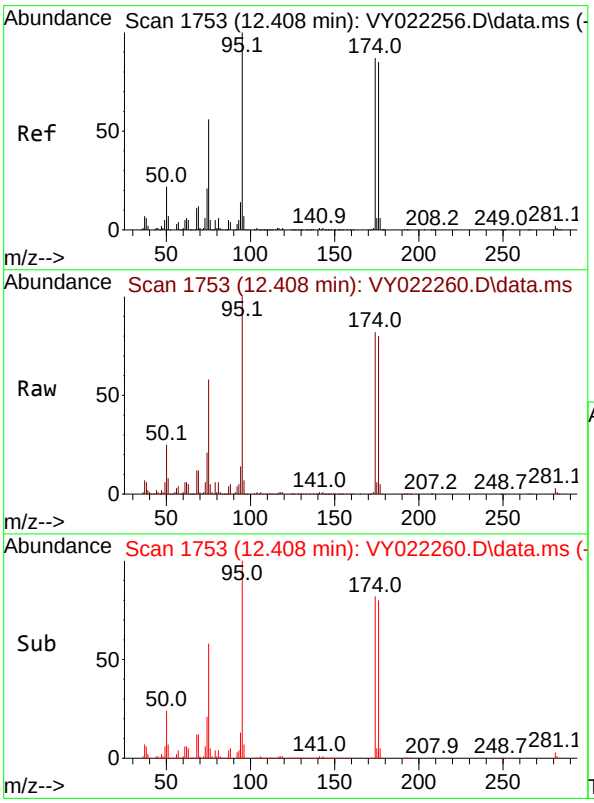
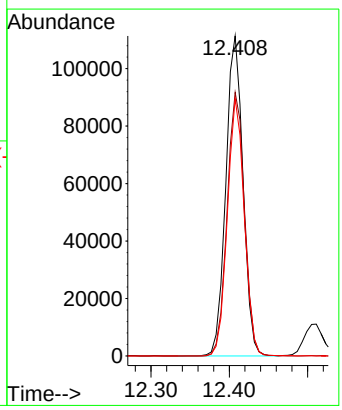
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

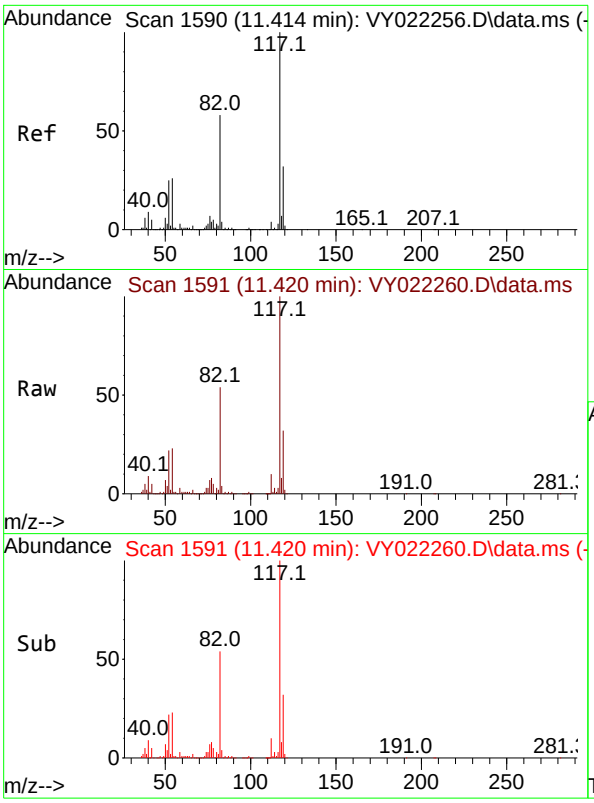



#62
4-Bromofluorobenzene
Concen: 51.020 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 95 Resp: 169575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 83.5 | 0.0 | 166.8 |
| 176 | 79.1 | 0.0 | 160.8 |

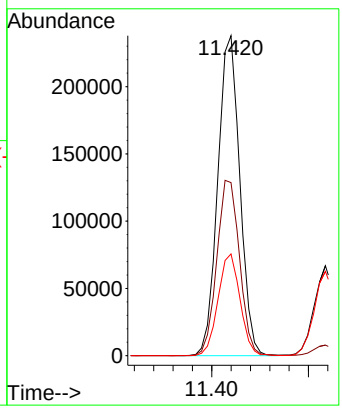





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:117 Resp: 37554

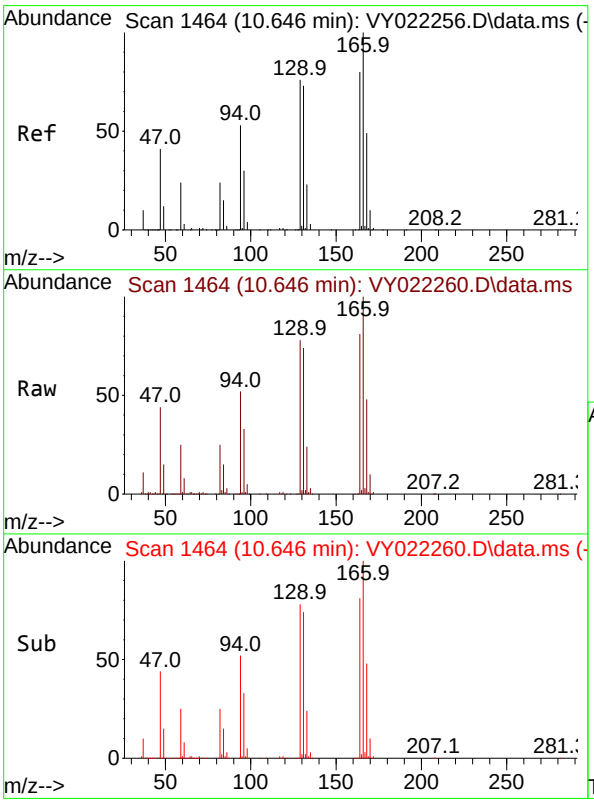
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.1 | 46.6 | 70.0 |
| 119 | 31.8 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
**APPROVED**

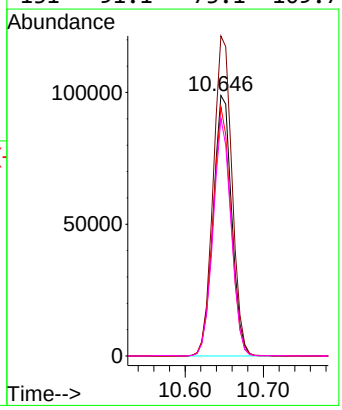
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

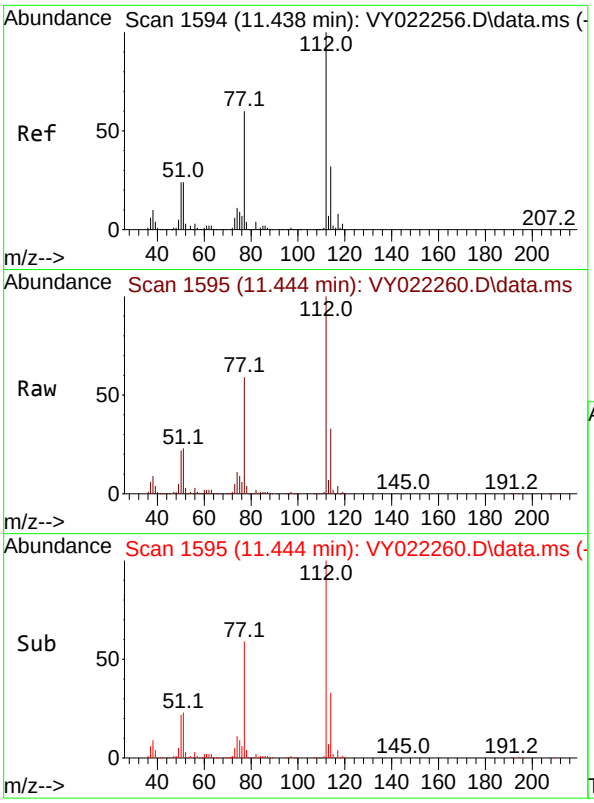



#64
Tetrachloroethene
Concen: 46.905 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:164 Resp: 162818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.8 | 100.4 | 150.6 |
| 129 | 95.5 | 76.4 | 114.6 |
| 131 | 91.1 | 73.1 | 109.7 |

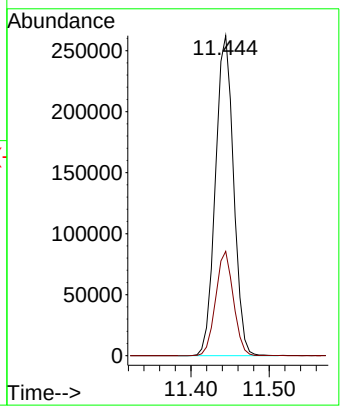





#65
Chlorobenzene
Concen: 49.827 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:112 Resp: 42217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.6 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
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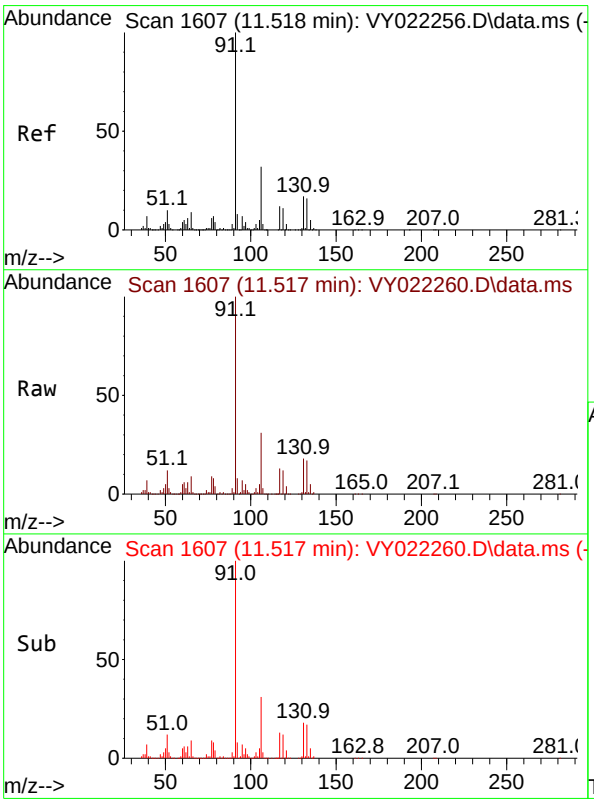
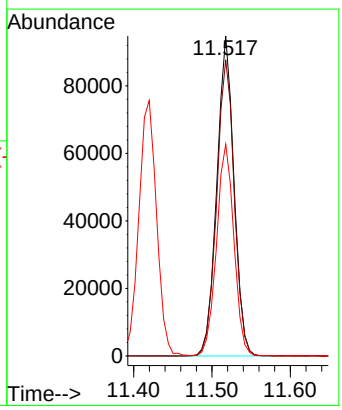
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

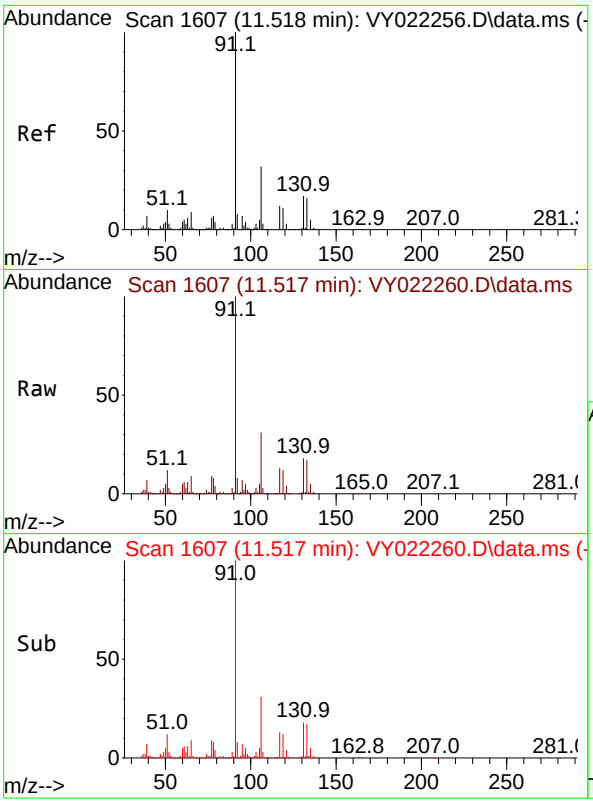



#66
1,1,1,2-Tetrachloroethane
Concen: 49.656 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:131 Resp: 144636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.9 | 47.3 | 141.9 |
| 119 | 67.0 | 33.1 | 99.2 |

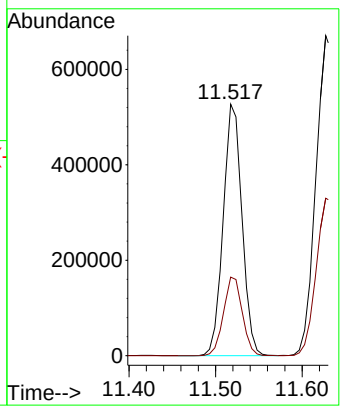





#67
Ethyl Benzene
Concen: 50.100 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 91 Resp: 79497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
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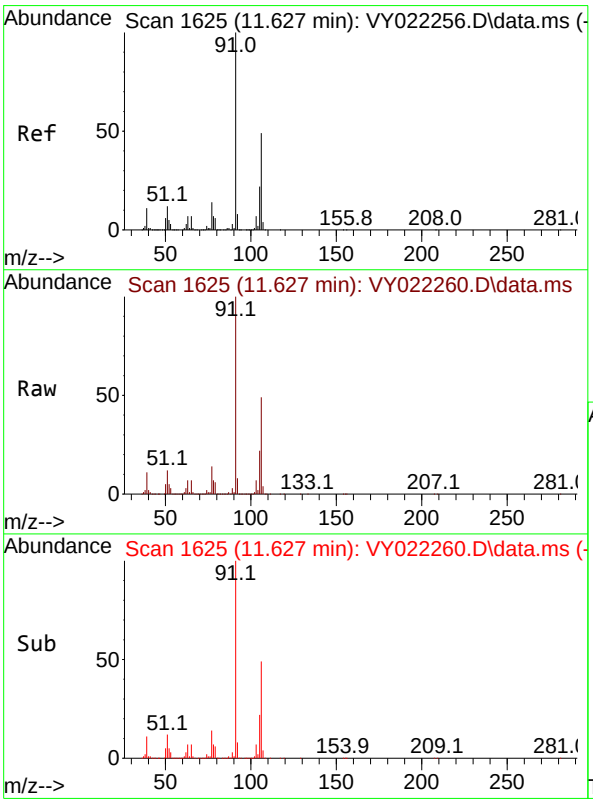
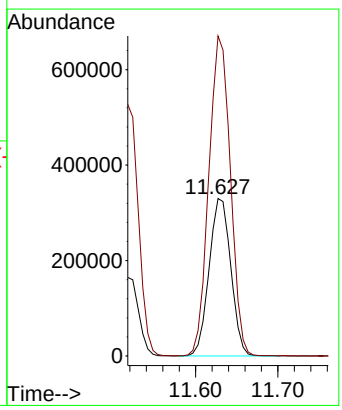
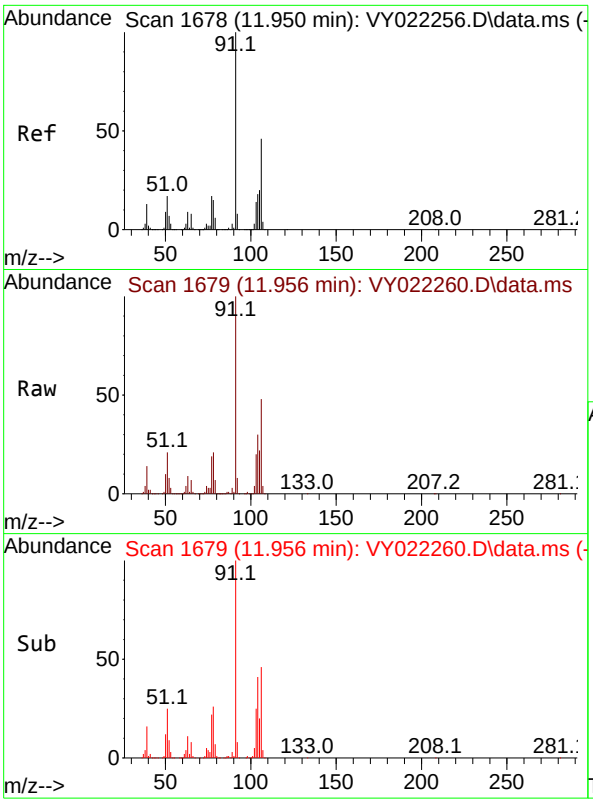



#68
m/p-Xylenes
Concen: 101.087 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:106 Resp: 604420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.6 | 163.0 | 244.4 |






#69
o-Xylene
Concen: 50.682 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:106 Resp: 28671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 213.3 | 108.3 | 324.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

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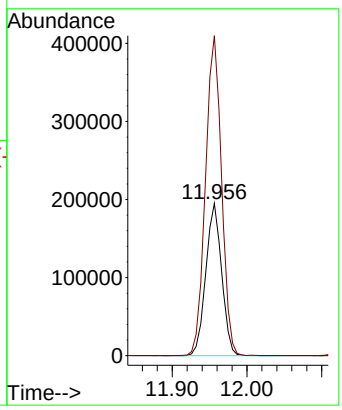
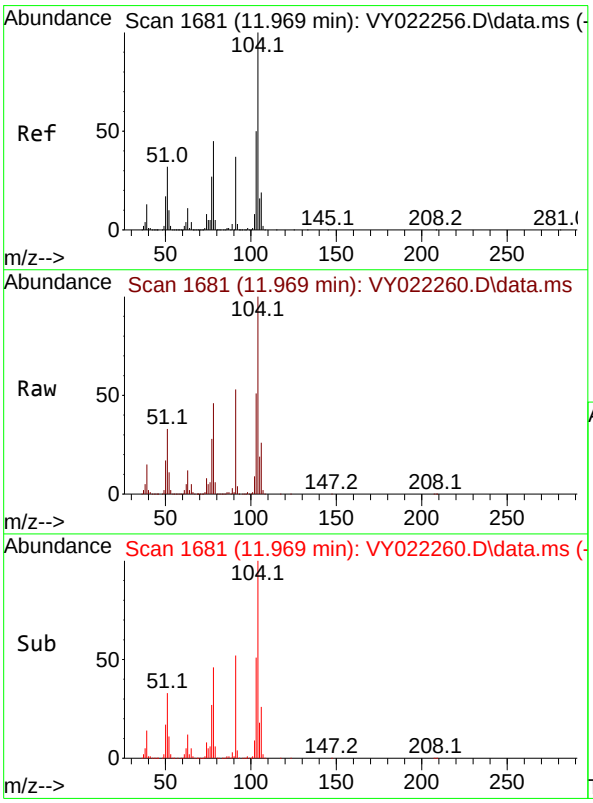
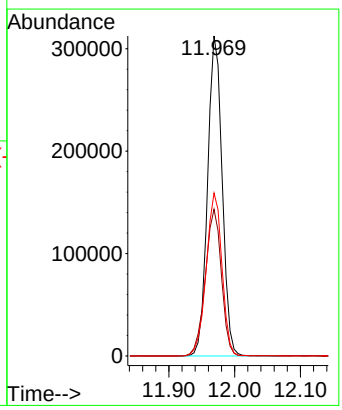


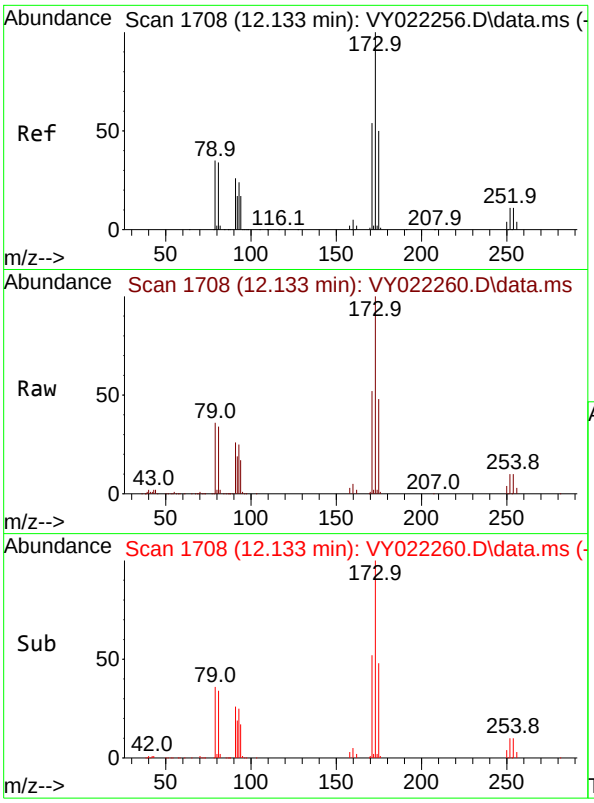




#70
Styrene
Concen: 50.471 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:104 Resp: 481621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.7 | 40.9 | 61.3 |
| 103 | 55.1 | 43.7 | 65.5 |

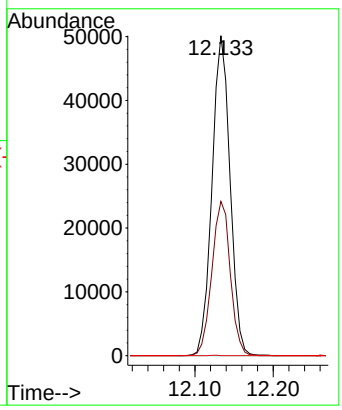





#71
Bromoform
Concen: 51.022 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:173 Resp: 8021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.3 | 24.7 | 74.1 |
| 254 | 0.1 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

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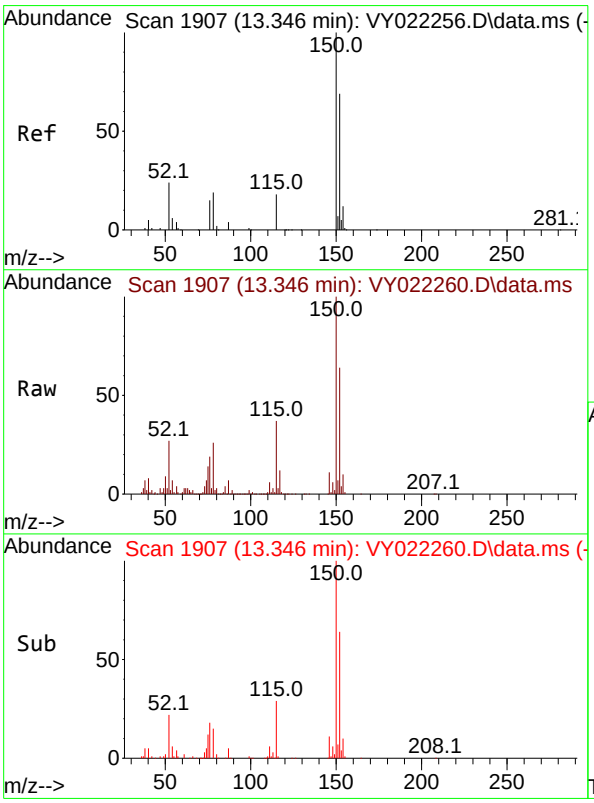
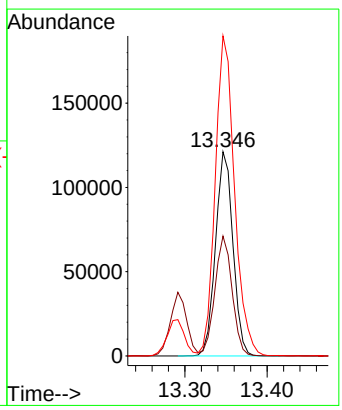
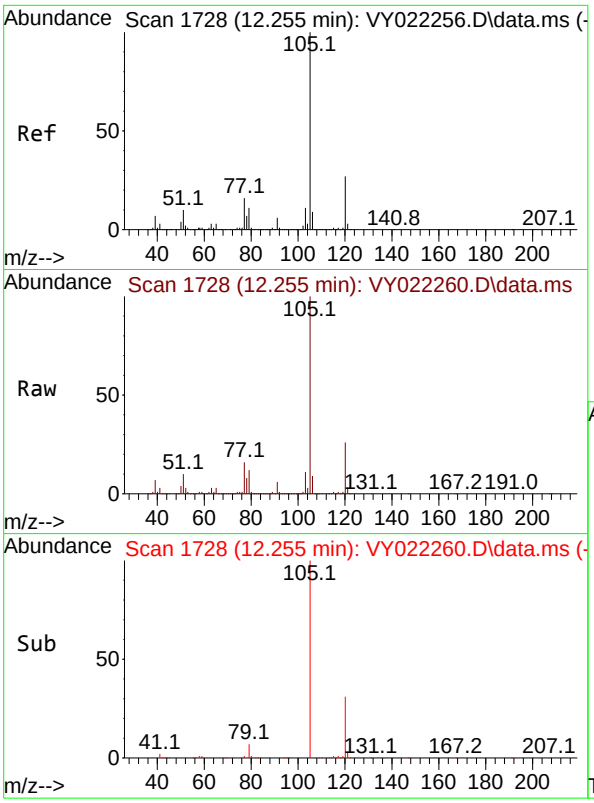



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:152 Resp: 178387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.1 | 29.4 | 88.2 |
| 150 | 173.8 | 0.0 | 353.8 |

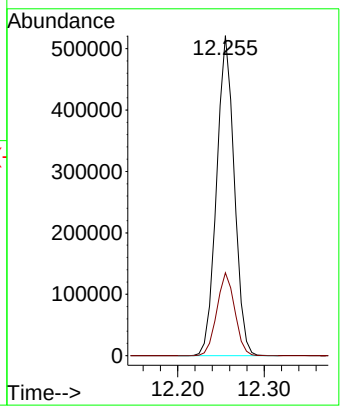





#73
Isopropylbenzene
Concen: 49.964 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:105 Resp: 73839

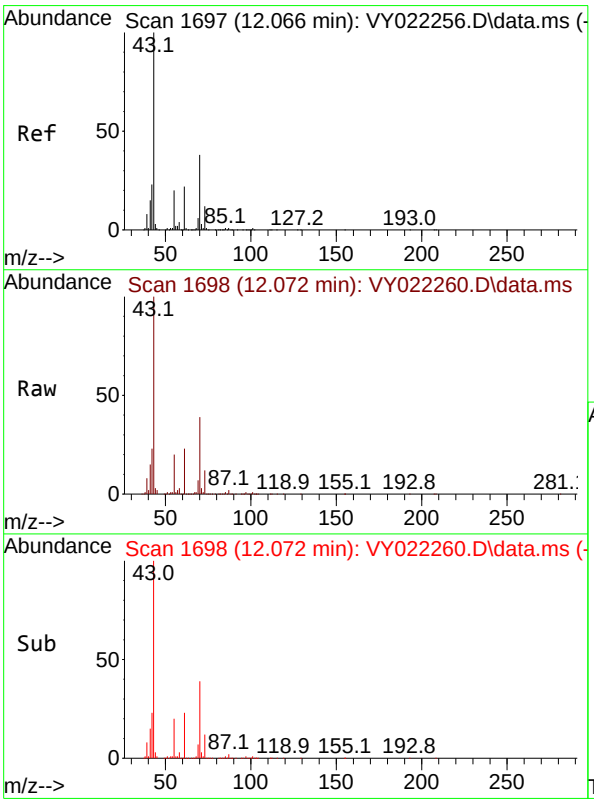
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.2 | 13.2 | 39.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
**APPROVED**

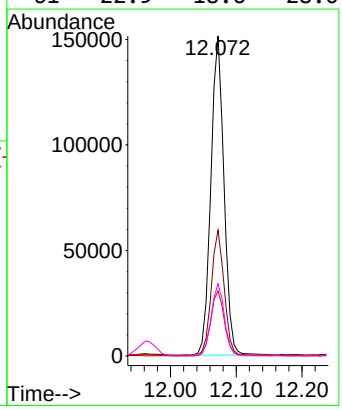
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

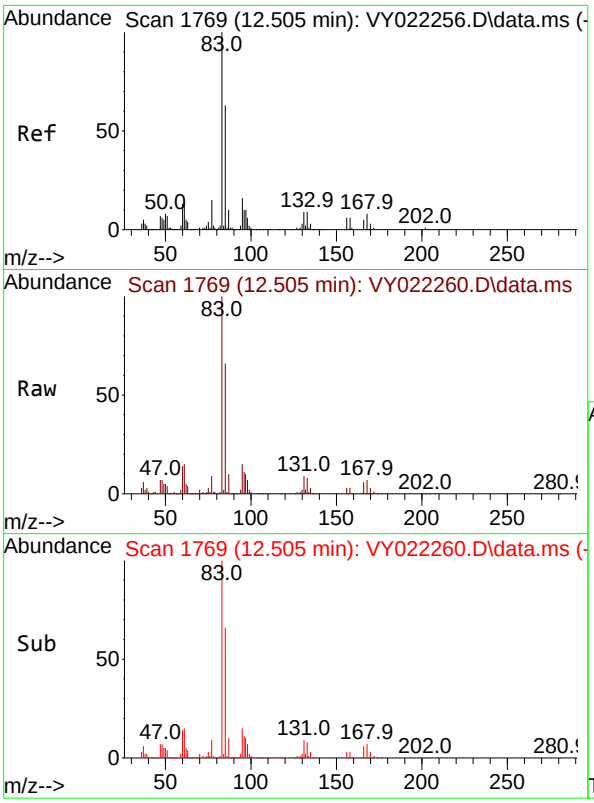



#74
N-amyl acetate
Concen: 49.805 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 210510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 39.0 | 31.4 | 47.0 |
| 55 | 20.7 | 17.0 | 25.6 |
| 61 | 22.9 | 18.6 | 28.0 |






#75
1,1,2,2-Tetrachloroethane
Concen: 53.062 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

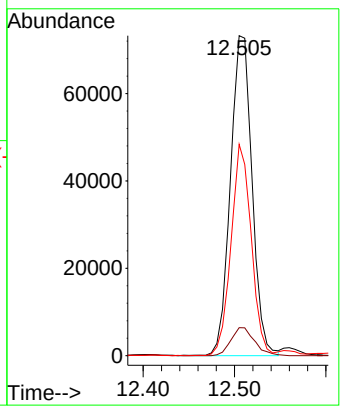
Tgt Ion: 83 Resp: 12059

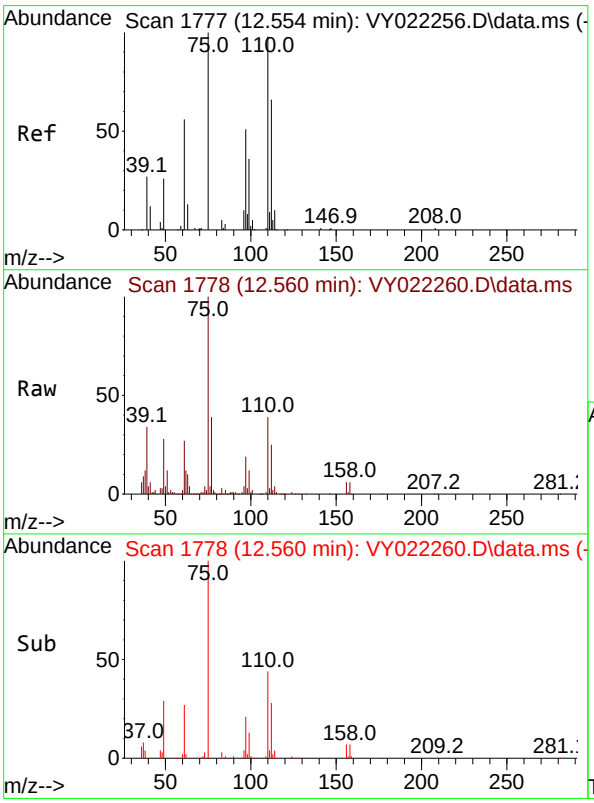
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.9 | 14.7 |
| 85 | 61.7 | 32.0 | 96.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

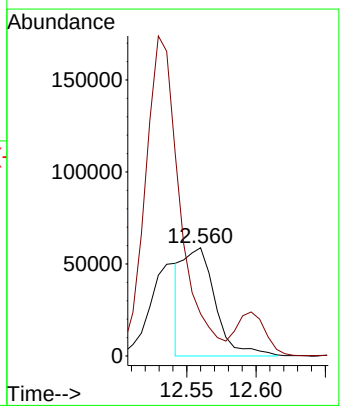


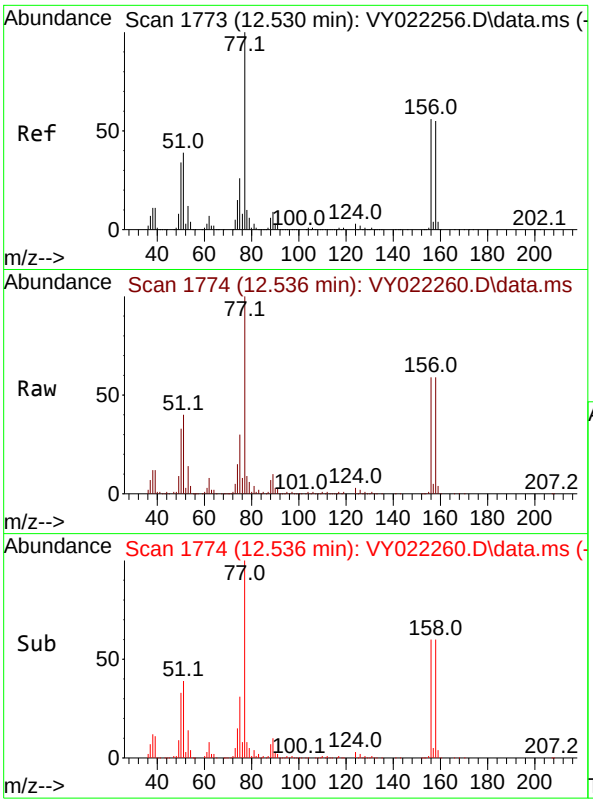




#76
1,2,3-Trichloropropane
Concen: 53.564 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 96804

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

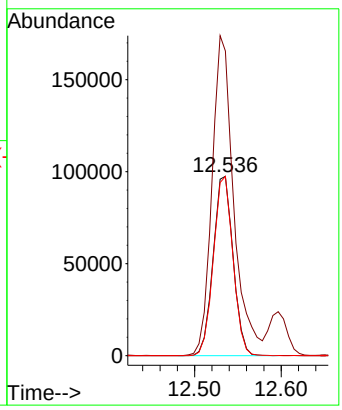





#77
Bromobenzene
Concen: 49.374 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:156 Resp: 15584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 194.2 | 94.5 | 283.6 |
| 158 | 98.0 | 48.4 | 145.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
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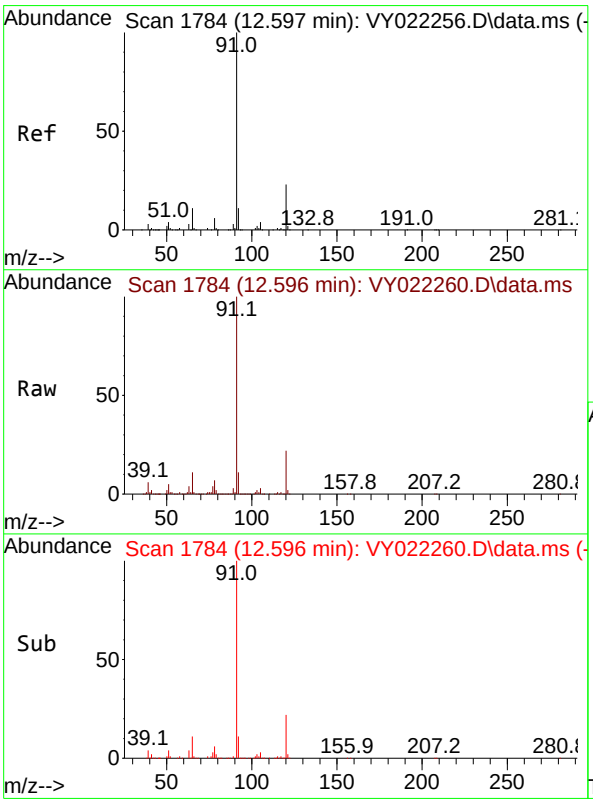
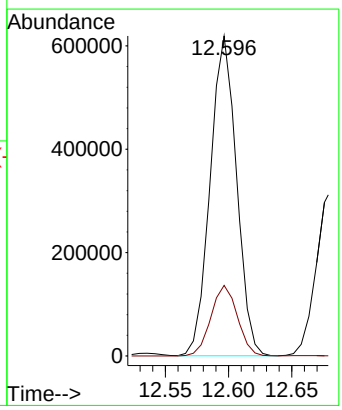
Supervised By :Semsettin Yesilyurt 05/16/2025

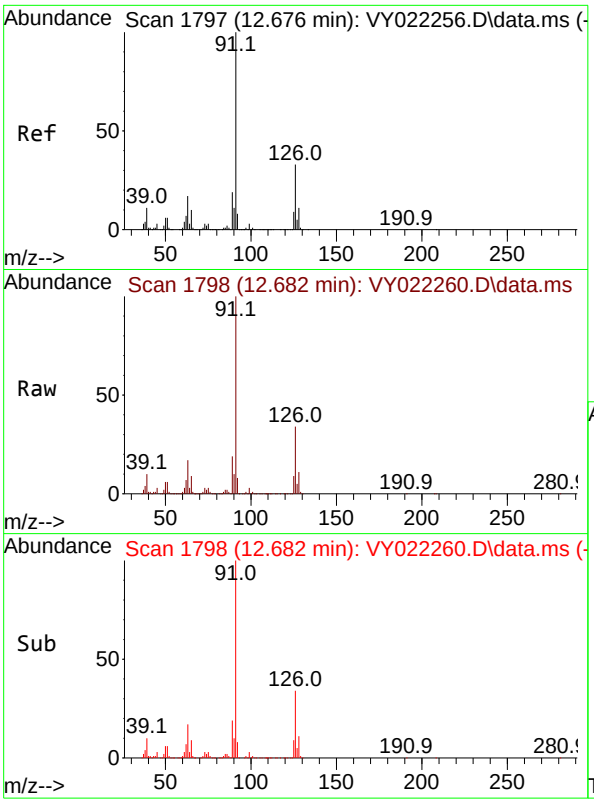



#78
n-propylbenzene
Concen: 50.296 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 91 Resp: 896555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.1 | 11.1 | 33.3 |

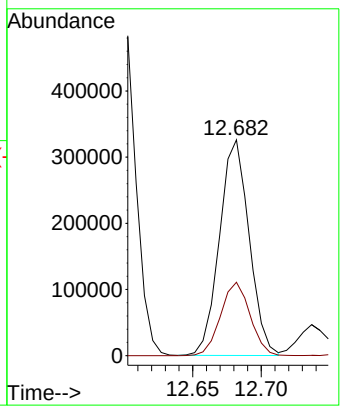





#79
2-Chlorotoluene
Concen: 50.130 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 91 Resp: 49107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.8 | 16.8 | 50.4 |




**Instrument :**
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ICVVY051525

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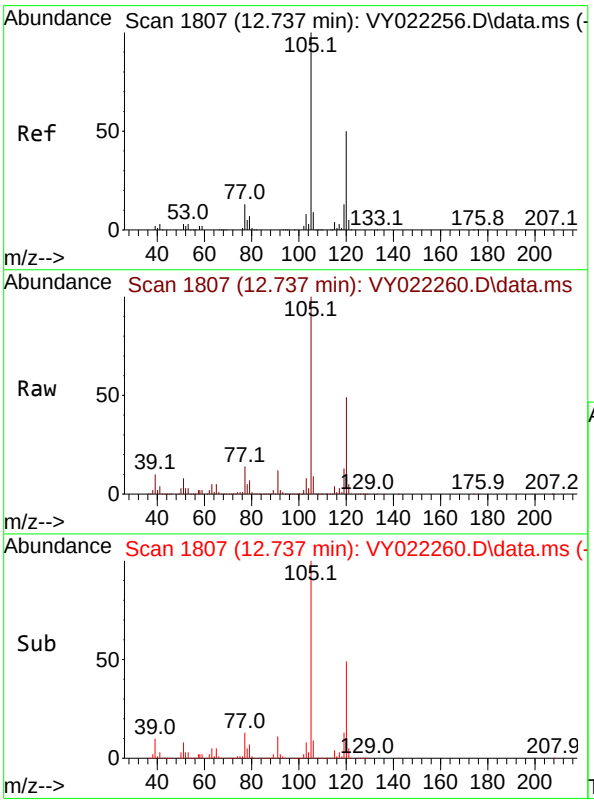
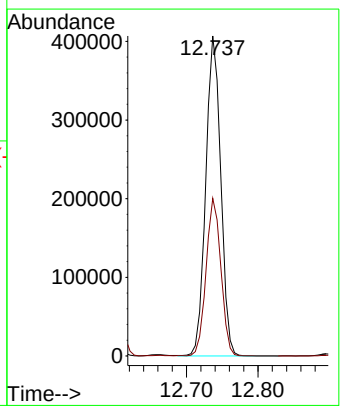
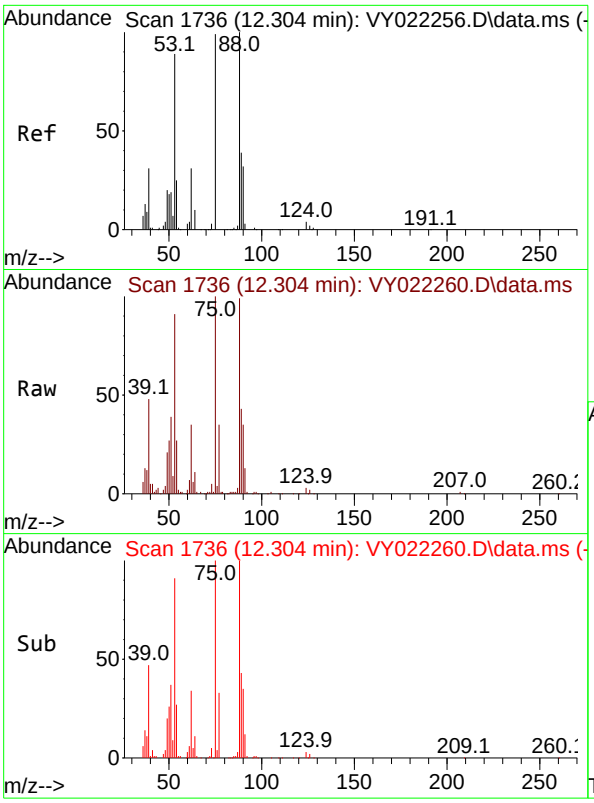



#80
1,3,5-Trimethylbenzene
Concen: 49.632 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:105 Resp: 592100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.7 | 24.2 | 72.6 |

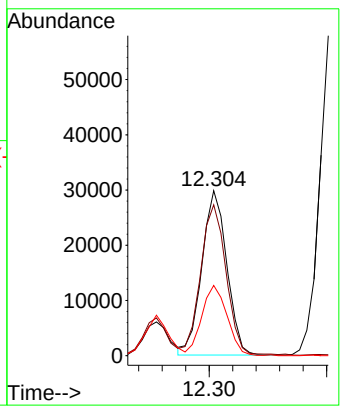





#81
trans-1,4-Dichloro-2-butene
Concen: 49.231 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 4392

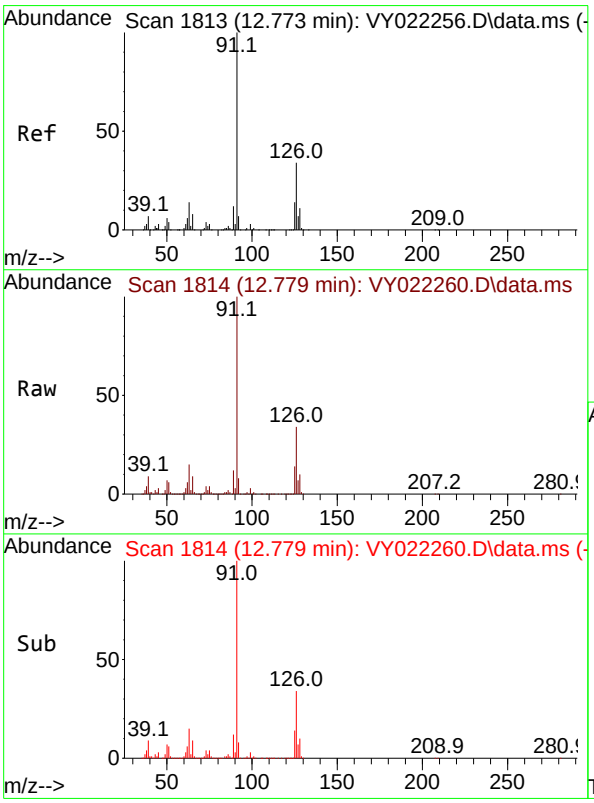
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 94.1 | 75.8 | 113.8 |
| 89 | 43.4 | 36.2 | 54.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations APPROVED**

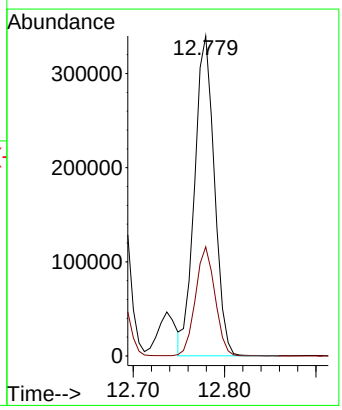
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

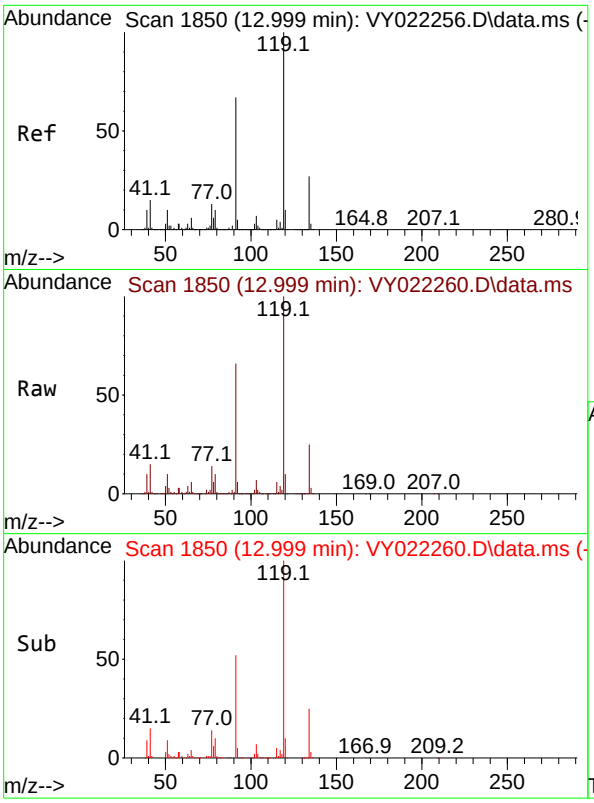



#82
4-Chlorotoluene
Concen: 50.661 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 91 Resp: 510451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.7 | 16.8 | 50.4 |

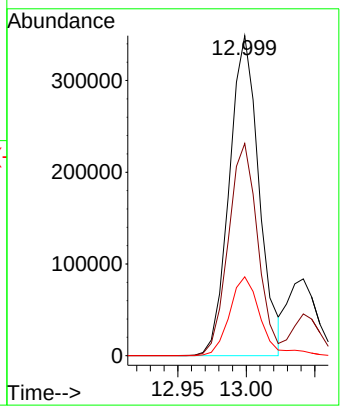





#83
tert-Butylbenzene
Concen: 49.715 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:119 Resp: 52714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.4 | 32.8 | 98.3 |
| 134 | 25.8 | 12.9 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
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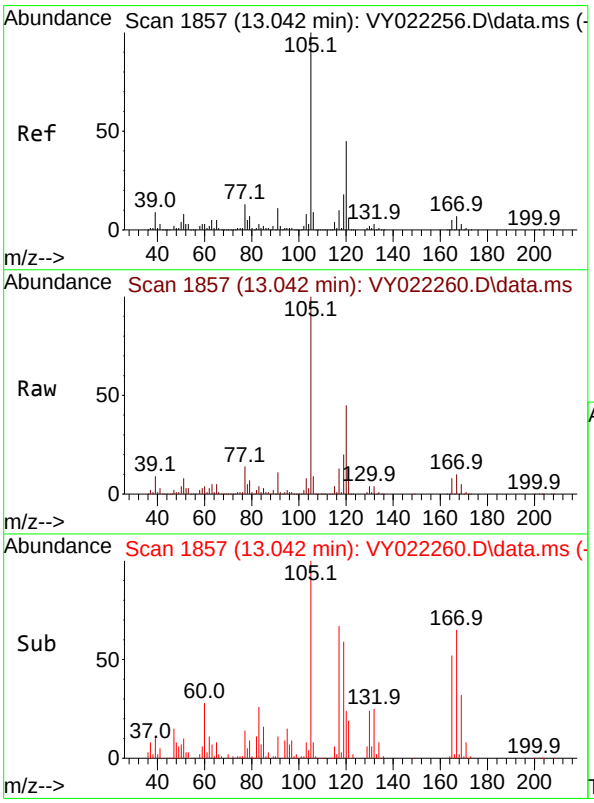
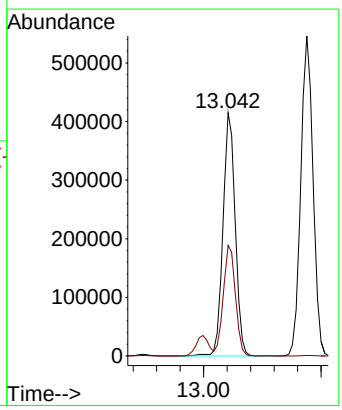
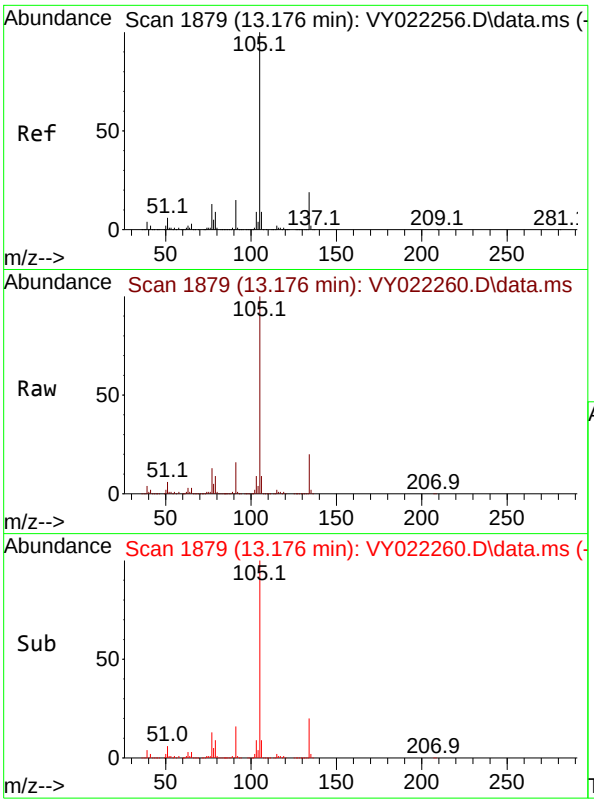



#84
1,2,4-Trimethylbenzene
Concen: 50.535 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:105 Resp: 598450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.1 | 22.3 | 66.9 |






#85
sec-Butylbenzene
Concen: 50.000 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:105 Resp: 78700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.8 | 9.8 | 29.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
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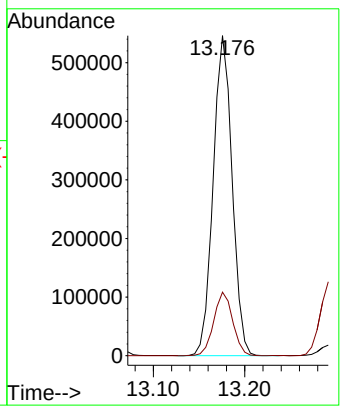
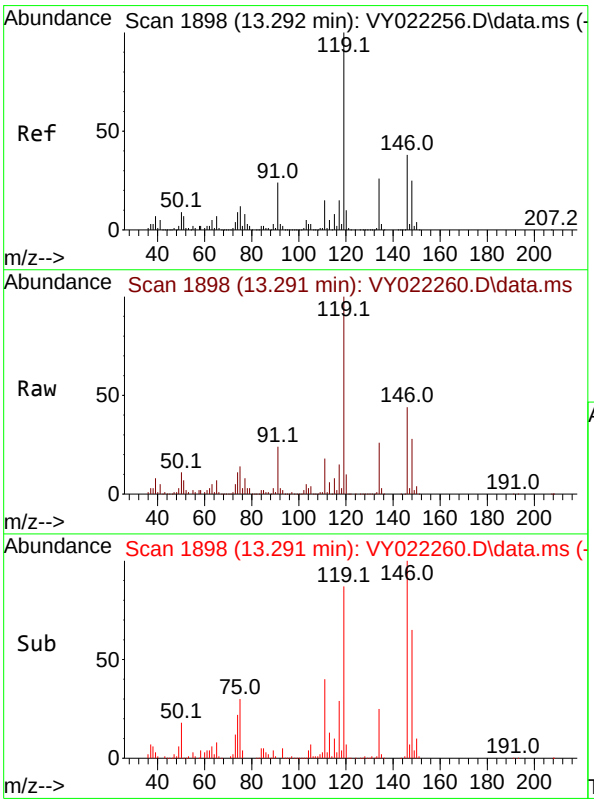
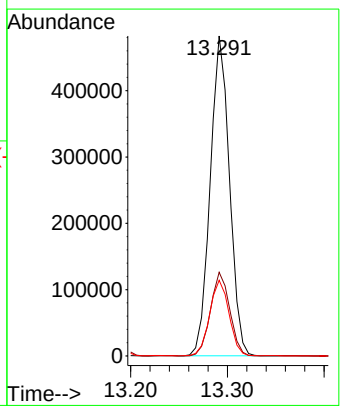


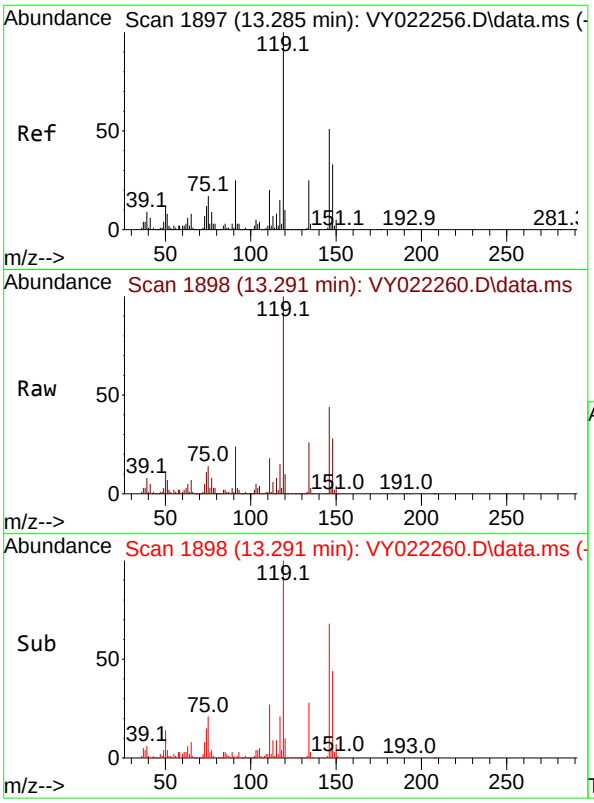




#86
p-Isopropyltoluene
Concen: 50.219 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:119 Resp: 664795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 12.9 | 38.6 |
| 91 | 23.8 | 12.1 | 36.3 |

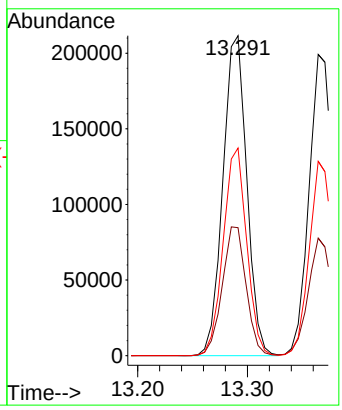





#87
1,3-Dichlorobenzene
Concen: 49.718 ug/l
RT: 13.291 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:146 Resp: 32035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.2 | 19.9 | 59.7 |
| 148 | 63.8 | 31.9 | 95.7 |




**Instrument :**
MSVOA_Y
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ICVVY051525

**Manual Integrations**
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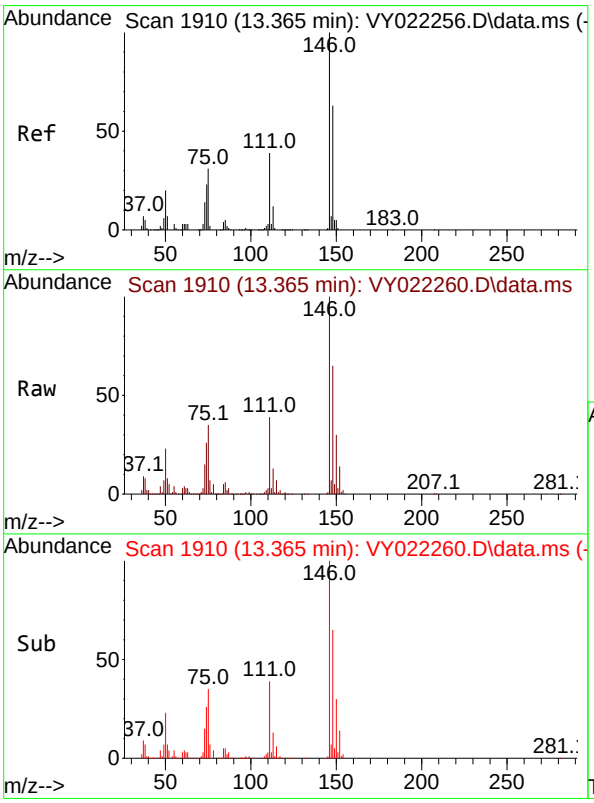
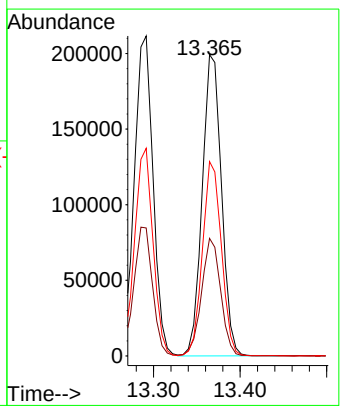
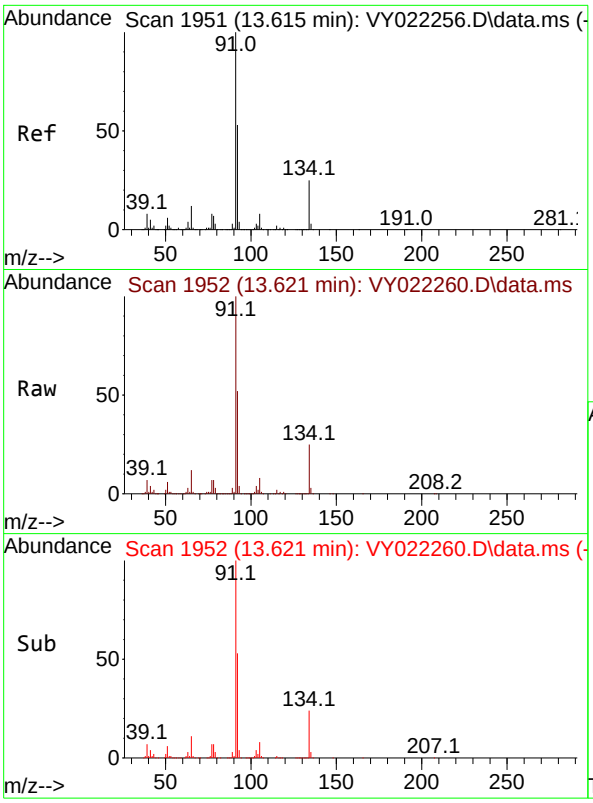



#88
1,4-Dichlorobenzene
Concen: 49.669 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:146 Resp: 307847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.6 | 20.0 | 59.9 |
| 148 | 63.3 | 32.1 | 96.5 |

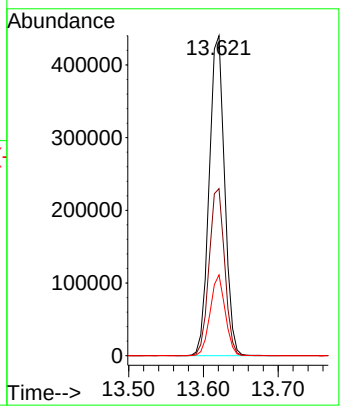





#89
n-Butylbenzene
Concen: 50.402 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 91 Resp: 63122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.7 | 26.3 | 78.9 |
| 134 | 24.6 | 12.4 | 37.4 |

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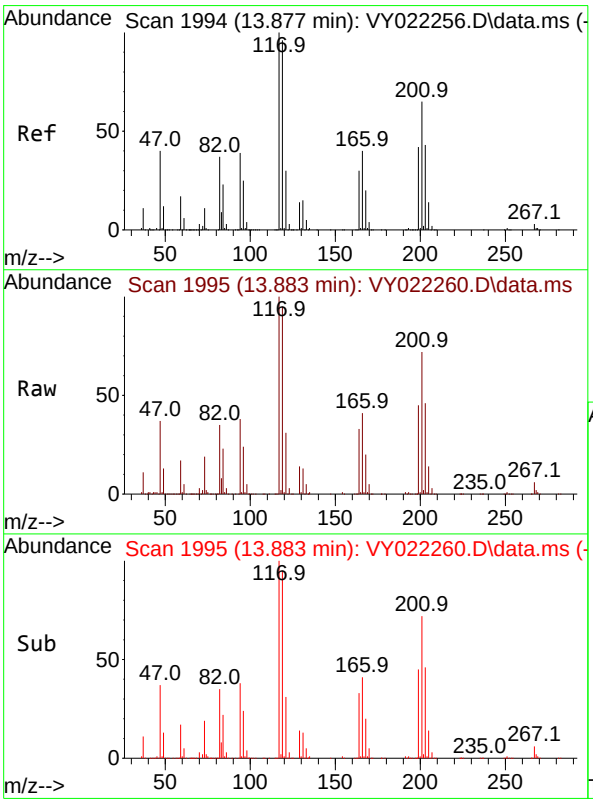
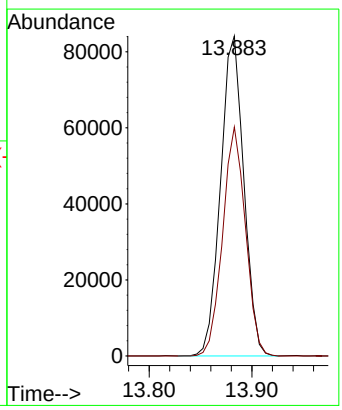
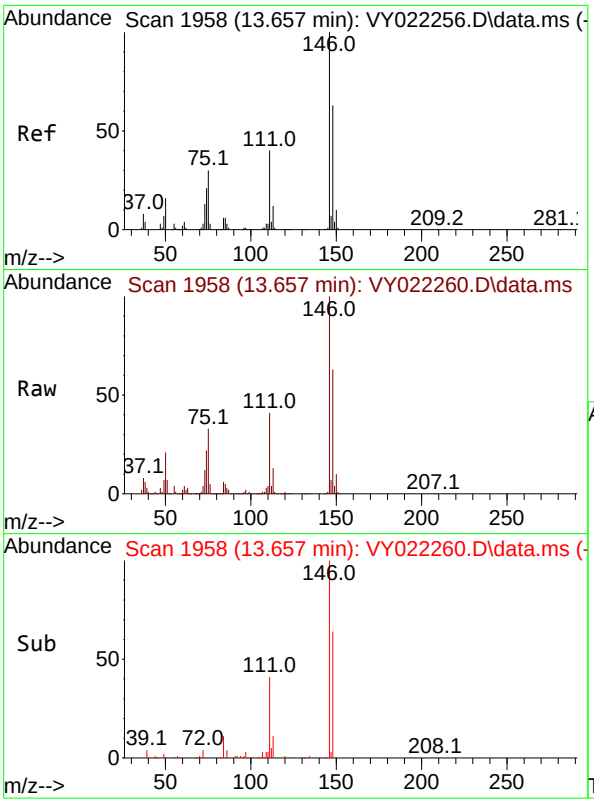



#90
Hexachloroethane
Concen: 49.502 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:117 Resp: 132281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 70.2 | 35.2 | 105.6 |

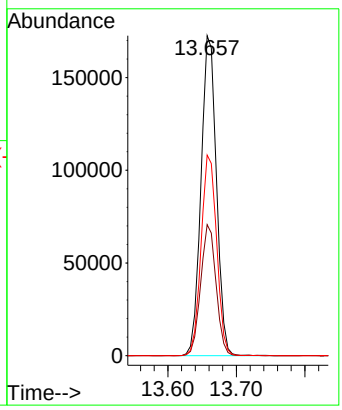





#91
1,2-Dichlorobenzene
Concen: 49.954 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:146 Resp: 27037

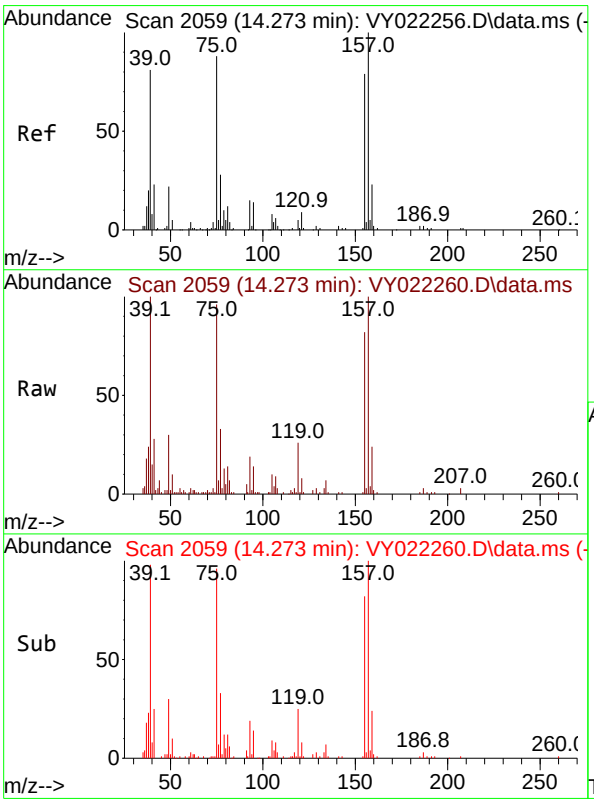
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.8 | 20.5 | 61.5 |
| 148 | 63.3 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
**APPROVED**

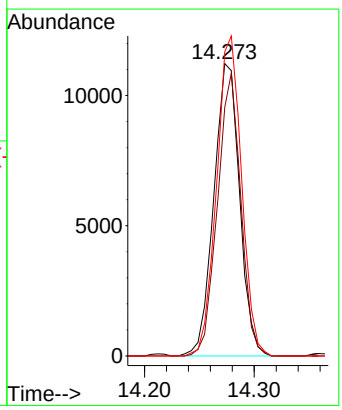
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

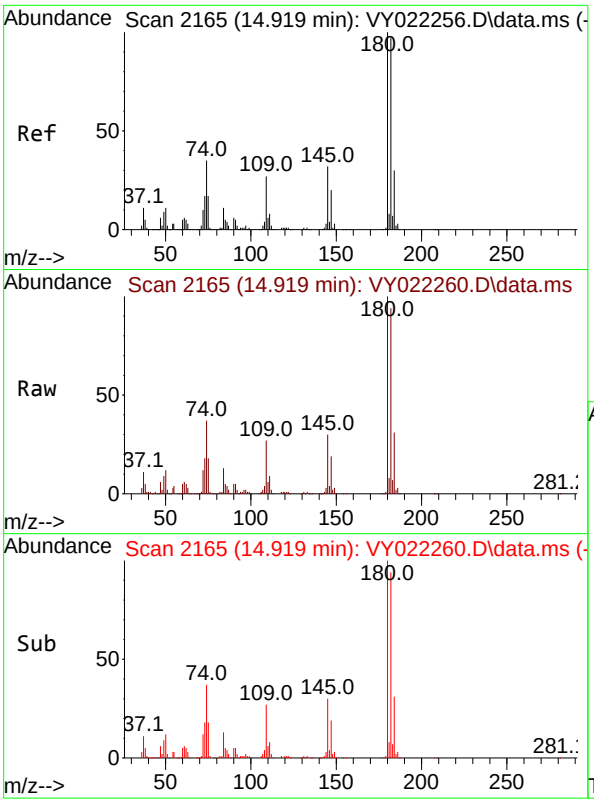



#92
1,2-Dibromo-3-Chloropropane
Concen: 50.028 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 18335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 87.6 | 43.4 | 130.1 |
| 157 | 105.9 | 54.6 | 163.9 |

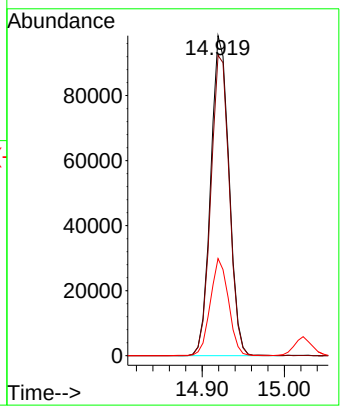





#93
1,2,4-Trichlorobenzene
Concen: 48.794 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:180 Resp: 15254

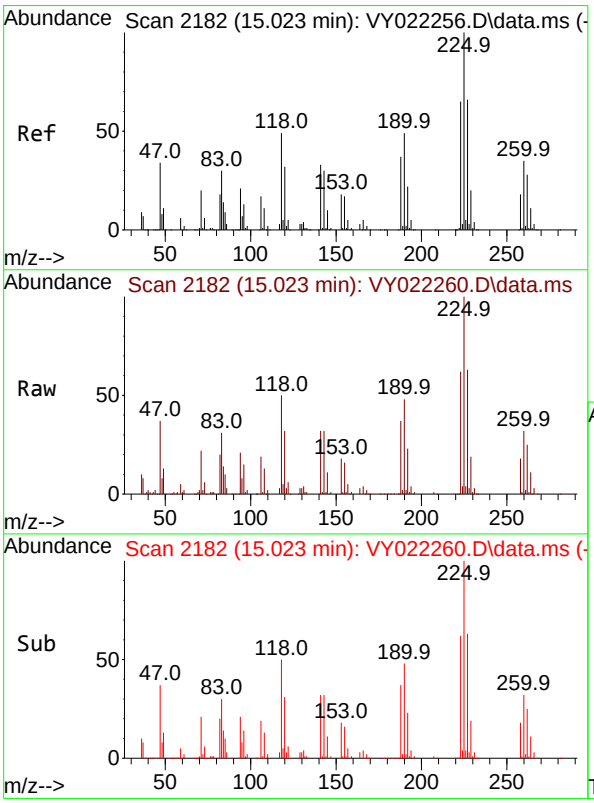
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.7 | 48.0 | 144.0 |
| 145 | 30.1 | 15.0 | 45.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
**APPROVED**

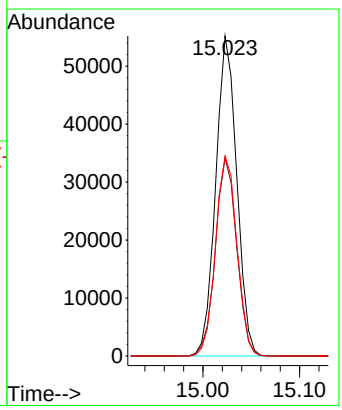
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

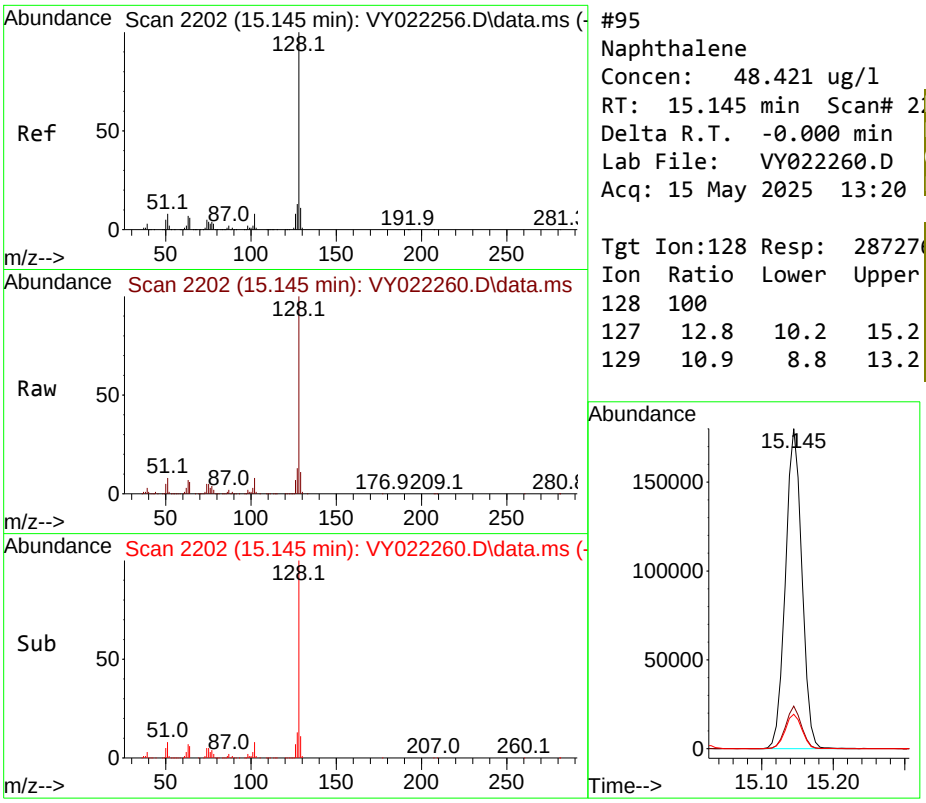



#94
Hexachlorobutadiene
Concen: 47.770 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:225 Resp: 83287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.6 | 31.5 | 94.5 |
| 227 | 63.6 | 32.1 | 96.3 |






#95
Naphthalene
Concen: 48.421 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:128 Resp: 28727

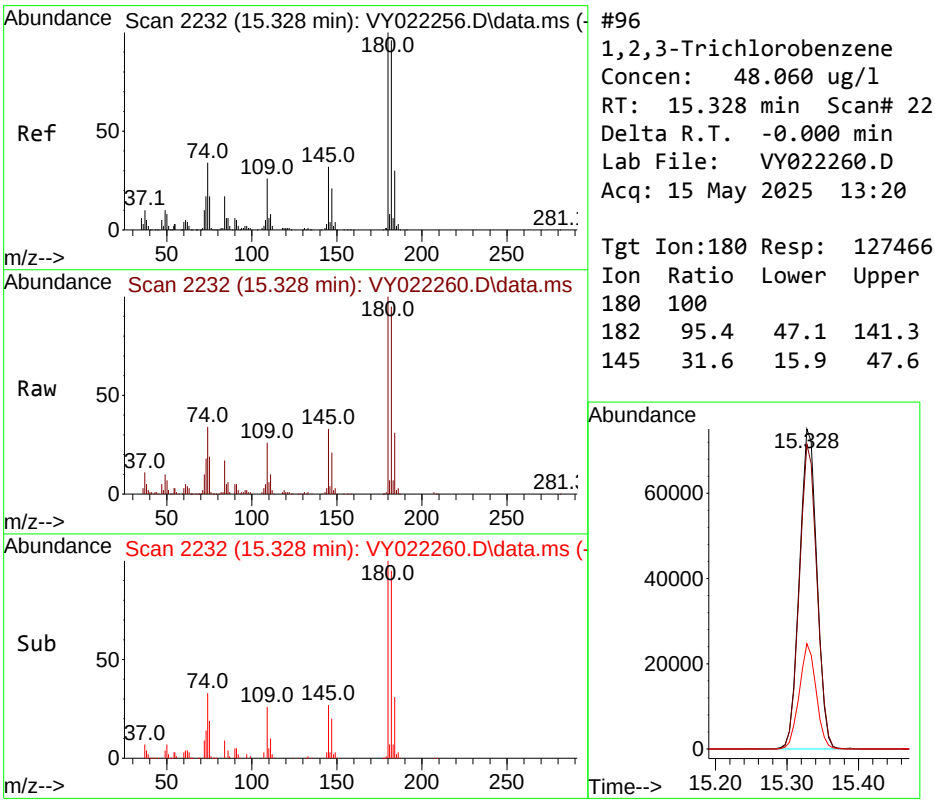
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.2 | 15.2 |
| 129 | 10.9 | 8.8 | 13.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025




#96
1,2,3-Trichlorobenzene
Concen: 48.060 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:180 Resp: 127466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 47.1 | 141.3 |
| 145 | 31.6 | 15.9 | 47.6 |

# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 0.522 | 0.516 | 1.1 | 96 | 0.00 |
| 3 | P | Chloromethane | 1.097 | 1.069 | 2.6 | 97 | 0.00 |
| 4 | C | Vinyl Chloride | 1.226 | 1.253 | -2.2# | 98 | 0.00 |
| 5 | T | Bromomethane | 0.998 | 0.968 | 3.0 | 104 | 0.00 |
| 6 | T | Chloroethane | 0.763 | 0.812 | -6.4 | 101 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.241 | 1.271 | -2.4 | 99 | 0.00 |
| 8 | T | Diethyl Ether | 0.298 | 0.310 | -4.0 | 100 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.539 | 0.556 | -3.2 | 98 | 0.00 |
| 10 | T | Methyl Iodide | 0.624 | 0.619 | 0.8 | 85 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.042 | 0.044 | -4.8 | 108 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.535 | 0.551 | -3.0# | 97 | 0.00 |
| 13 | T | Acrolein | 0.061 | 0.058 | 4.9 | 97 | 0.00 |
| 14 | T | Allyl chloride | 0.938 | 0.991 | -5.7 | 98 | 0.00 |
| 15 | T | Acrylonitrile | 0.123 | 0.130 | -5.7 | 102 | 0.00 |
| 16 | T | Acetone | 0.102 | 0.104 | -2.0 | 105 | 0.00 |
| 17 | T | Carbon Disulfide | 1.744 | 1.806 | -3.6 | 97 | 0.00 |
| 18 | T | Methyl Acetate | 0.323 | 0.384 | -18.9 | 120 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.475 | 1.566 | -6.2 | 101 | 0.00 |
| 20 | T | Methylene Chloride | 0.662 | 0.626 | 5.4 | 99 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.590 | 0.609 | -3.2 | 97 | 0.00 |
| 22 | T | Diisopropyl ether | 1.980 | 2.063 | -4.2 | 98 | 0.00 |
| 23 | T | Vinyl Acetate | 1.196 | 1.211 | -1.3 | 97 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.106 | 1.143 | -3.3 | 97 | 0.00 |
| 25 | T | 2-Butanone | 0.171 | 0.175 | -2.3 | 103 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.984 | 1.027 | -4.4 | 98 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.681 | 0.715 | -5.0 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 0.472 | 0.494 | -4.7 | 99 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.110 | 0.117 | -6.4 | 103 | 0.00 |
| 30 | C | Chloroform | 1.061 | 1.121 | -5.7# | 98 | 0.00 |
| 31 | T | Cyclohexane | 1.105 | 1.076 | 2.6 | 96 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.974 | 1.003 | -3.0 | 98 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.546 | 0.569 | -4.2 | 99 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.298 | 0.308 | -3.4 | 100 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.492 | 0.496 | -0.8 | 96 | 0.00 |
| 37 | T | Ethyl Acetate | 0.237 | 0.240 | -1.3 | 100 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.509 | 0.514 | -1.0 | 97 | 0.00 |
| 39 | T | Methylcyclohexane | 0.660 | 0.661 | -0.2 | 96 | 0.00 |
| 40 | TM | Benzene | 1.457 | 1.507 | -3.4 | 98 | 0.00 |
| 41 | T | Methacrylonitrile | 0.157 | 0.168 | -7.0 | 104 | 0.02 |
| 42 | TM | 1,2-Dichloroethane | 0.394 | 0.409 | -3.8 | 99 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.516 | 0.530 | -2.7 | 101 | 0.00 |
| 44 | TM | Trichloroethene | 0.362 | 0.365 | -0.8 | 96 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.351 | 0.361 | -2.8# | 99 | 0.00 |
| 46 | T | Dibromomethane | 0.189 | 0.195 | -3.2 | 101 | 0.00 |
| 47 | T | Bromodichloromethane | 0.492 | 0.516 | -4.9 | 100 | 0.00 |
| 48 | T | Methyl methacrylate | 0.241 | 0.248 | -2.9 | 101 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 0.002 | 0.002 | 0.0 | 103 | 0.00 |
| 50 | S | Toluene-d8 | 1.222 | 1.252 | -2.5 | 99 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.253 | 0.265 | -4.7 | 102 | 0.00 |
| 52 | CM | Toluene | 0.923 | 0.947 | -2.6# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.480 | 0.494 | -2.9 | 99 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.550 | 0.571 | -3.8 | 99 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.243 | 0.248 | -2.1 | 100 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.378 | 0.383 | -1.3 | 98 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.431 | 0.447 | -3.7 | 100 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.170 | 0.184 | -8.2 | 98 | 0.00 |
| 59 | T | 2-Hexanone | 0.170 | 0.175 | -2.9 | 103 | 0.00 |
| 60 | T | Dibromochloromethane | 0.315 | 0.330 | -4.8 | 100 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.226 | 0.233 | -3.1 | 100 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.387 | 0.395 | -2.1 | 100 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 64 | T | Tetrachloroethene | 0.462 | 0.434 | 6.1 | 91 | 0.00 |
| 65 | PM | Chlorobenzene | 1.128 | 1.124 | 0.4 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.388 | 0.385 | 0.8 | 97 | 0.00 |
| 67 | C | Ethyl Benzene | 2.113 | 2.117 | -0.2# | 97 | 0.00 |
| 68 | T | m/p-Xylenes | 0.796 | 0.805 | -1.1 | 98 | 0.00 |
| 69 | T | o-Xylene | 0.753 | 0.763 | -1.3 | 99 | 0.00 |
| 70 | T | Styrene | 1.270 | 1.282 | -0.9 | 98 | 0.00 |
| 71 | P | Bromoform | 0.209 | 0.214 | -2.4 | 102 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 73 | T | Isopropylbenzene | 4.142 | 4.139 | 0.1 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 1.185 | 1.180 | 0.4 | 101 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.637 | 0.676 | -6.1 | 107 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.507 | 0.543 | -7.1 | 107 | 0.00 |
| 77 | T | Bromobenzene | 0.885 | 0.874 | 1.2 | 97 | 0.00 |
| 78 | T | n-propylbenzene | 4.996 | 5.026 | -0.6 | 97 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.746 | 2.753 | -0.3 | 97 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.344 | 3.319 | 0.7 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.250 | 0.246 | 1.6 | 103 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.824 | 2.861 | -1.3 | 97 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.972 | 2.955 | 0.6 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.319 | 3.355 | -1.1 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.412 | 4.412 | 0.0 | 95 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.710 | 3.727 | -0.5 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.806 | 1.796 | 0.6 | 97 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.737 | 1.726 | 0.6 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 3.510 | 3.538 | -0.8 | 95 | 0.00 |
| 90 | T | Hexachloroethane | 0.749 | 0.742 | 0.9 | 96 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.517 | 1.516 | 0.1 | 98 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.103 | 0.103 | 0.0 | 102 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.876 | 0.855 | 2.4 | 94 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.489 | 0.467 | 4.5 | 92 | 0.00 |
| 95 | T | Naphthalene | 1.663 | 1.610 | 3.2 | 96 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 0.743 | 0.715 | 3.8 | 94 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 49.432 | 1.1 | 96 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 48.719 | 2.6 | 97 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 51.111 | -2.2# | 98 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 48.486 | 3.0 | 104 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 53.234 | -6.5 | 101 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 51.174 | -2.3 | 99 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 52.055 | -4.1 | 100 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 51.564 | -3.1 | 98 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 49.606 | 0.8 | 85 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 265.144 | -6.1 | 108 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 51.487 | -3.0# | 97 | 0.00 |
| 13 | T | Acrolein | 250.000 | 238.362 | 4.7 | 97 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 52.817 | -5.6 | 98 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 265.134 | -6.1 | 102 | 0.00 |
| 16 | T | Acetone | 250.000 | 252.660 | -1.1 | 105 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 51.765 | -3.5 | 97 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 59.461 | -18.9 | 120 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 53.096 | -6.2 | 101 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 47.298 | 5.4 | 99 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 51.552 | -3.1 | 97 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 52.085 | -4.2 | 98 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 253.098 | -1.2 | 97 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 51.668 | -3.3 | 97 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 255.929 | -2.4 | 103 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 52.191 | -4.4 | 98 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 52.479 | -5.0 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 52.305 | -4.6 | 99 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 264.847 | -5.9 | 103 | 0.00 |
| 30 | C | Chloroform | 50.000 | 52.810 | -5.6# | 98 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 48.673 | 2.7 | 96 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 51.523 | -3.0 | 98 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 52.104 | -4.2 | 99 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 51.658 | -3.3 | 100 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 50.457 | -0.9 | 96 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 50.633 | -1.3 | 100 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 50.543 | -1.1 | 97 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 50.015 | -0.0 | 96 | 0.00 |
| 40 | TM | Benzene | 50.000 | 51.696 | -3.4 | 98 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 53.599 | -7.2 | 104 | 0.02 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 51.834 | -3.7 | 99 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 51.415 | -2.8 | 101 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.335 | -0.7 | 96 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 51.417 | -2.8# | 99 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 51.423 | -2.8 | 101 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 52.508 | -5.0 | 100 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 51.357 | -2.7 | 101 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 1008.479 | -0.8 | 103 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 51.229 | -2.5 | 99 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 261.463 | -4.6 | 102 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.337 | -2.7# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 51.458 | -2.9 | 99 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 51.916 | -3.8 | 99 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.142 | -2.3 | 100 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 50.639 | -1.3 | 98 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 51.880 | -3.8 | 100 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 271.104 | -8.4 | 98 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 257.738 | -3.1 | 103 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 52.425 | -4.8 | 100 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 51.428 | -2.9 | 100 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 51.020 | -2.0 | 100 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 46.905 | 6.2 | 91 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.827 | 0.3 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 49.656 | 0.7 | 97 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 50.100 | -0.2# | 97 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 101.087 | -1.1 | 98 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 50.682 | -1.4 | 99 | 0.00 |
| 70 | T | Styrene | 50.000 | 50.471 | -0.9 | 98 | 0.00 |
| 71 | P | Bromoform | 50.000 | 51.022 | -2.0 | 102 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 49.964 | 0.1 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 49.805 | 0.4 | 101 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 53.062 | -6.1 | 107 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 53.564 | -7.1 | 107 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.374 | 1.3 | 97 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 50.296 | -0.6 | 97 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 50.130 | -0.3 | 97 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 49.632 | 0.7 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 49.231 | 1.5 | 103 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 50.661 | -1.3 | 97 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 49.715 | 0.6 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 50.535 | -1.1 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 50.000 | 0.0 | 95 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.219 | -0.4 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 49.718 | 0.6 | 97 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 49.669 | 0.7 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 50.402 | -0.8 | 95 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 49.502 | 1.0 | 96 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 49.954 | 0.1 | 98 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.028 | -0.1 | 102 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 48.794 | 2.4 | 94 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 47.770 | 4.5 | 92 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 48.421 | 3.2 | 96 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 48.060 | 3.9 | 94 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG No.: Q2075

Instrument ID: MSVOA_X Calibration Date/Time: 05/21/2025 09:55

Lab File ID: VX046284.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Benzene | 1.417 | 1.412 | | -0.35 | 20 |
| Toluene | 0.869 | 0.857 | | -1.38 | 20 |
| Ethyl Benzene | 1.929 | 1.968 | | 2.02 | 20 |
| m/p-Xylenes | 0.706 | 0.721 | | 2.13 | 20 |
| o-Xylene | 0.688 | 0.712 | | 3.49 | 20 |
| Isopropylbenzene | 3.893 | 4.007 | | 2.93 | 20 |
| n-propylbenzene | 4.526 | 4.671 | | 3.2 | 20 |
| 1,3,5-Trimethylbenzene | 3.252 | 3.344 | | 2.83 | 20 |
| tert-Butylbenzene | 3.276 | 3.302 | | 0.79 | 20 |
| 1,2,4-Trimethylbenzene | 3.293 | 3.417 | | 3.77 | 20 |
| sec-Butylbenzene | 4.022 | 4.193 | | 4.25 | 20 |
| p-Isopropyltoluene | 3.320 | 3.467 | | 4.43 | 20 |
| n-Butylbenzene | 2.912 | 3.134 | | 7.62 | 20 |
| 1,2-Dichloroethane-d4 | 0.932 | 0.913 | | -2.04 | 20 |
| Dibromofluoromethane | 0.360 | 0.371 | | 3.06 | 20 |
| Toluene-d8 | 1.246 | 1.223 | | -1.85 | 20 |
| 4-Bromofluorobenzene | 0.478 | 0.481 | | 0.63 | 20 |

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\VX052125\
Data File : VX046284.D
Acq On : 21 May 2025 09:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 01:44:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.537 | 168 | 95080 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 161730 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 140445 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 67683 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.940 | 65 | 86766 | 48.949 | ug/l | -0.01 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 97.900% | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 59999 | 51.518 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 103.040% | | | |
| 50) Toluene-d8 | 8.641 | 98 | 197841 | 49.081 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 98.160% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 77871 | 50.363 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 100.720% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 73733 | 50.666 | ug/l | 98 |
| 3) Chloromethane | 1.300 | 50 | 68253 | 48.364 | ug/l | 99 |
| 4) Vinyl Chloride | 1.374 | 62 | 62535 | 47.612 | ug/l | 99 |
| 5) Bromomethane | 1.593 | 94 | 28042 | 46.032 | ug/l | 97 |
| 6) Chloroethane | 1.666 | 64 | 35734 | 50.964 | ug/l | 99 |
| 7) Trichlorofluoromethane | 1.873 | 101 | 98615 | 50.803 | ug/l | 99 |
| 8) Diethyl Ether | 2.129 | 74 | 32223 | 48.764 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.318 | 101 | 60440 | 50.314 | ug/l | 99 |
| 10) Methyl Iodide | 2.440 | 142 | 66552 | 46.821 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.971 | 59 | 60414 | 242.803 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.306 | 96 | 53753 | 47.678 | ug/l | 95 |
| 13) Acrolein | 2.233 | 56 | 90969 | 321.031 | ug/l | 99 |
| 14) Allyl chloride | 2.654 | 41 | 111182 | 51.600 | ug/l | 98 |
| 15) Acrylonitrile | 3.062 | 53 | 181499 | 255.100 | ug/l | 98 |
| 16) Acetone | 2.379 | 43 | 182996 | 257.477 | ug/l | 100 |
| 17) Carbon Disulfide | 2.501 | 76 | 120535 | 45.096 | ug/l | 100 |
| 18) Methyl Acetate | 2.703 | 43 | 97480 | 59.105 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 203555 | 51.499 | ug/l | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 63593 | 46.691 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 54097 | 47.714 | ug/l | 95 |
| 22) Diisopropyl ether | 3.757 | 45 | 215610 | 51.803 | ug/l | 94 |
| 23) Vinyl Acetate | 3.715 | 43 | 930126 | 254.084 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 117763 | 50.800 | ug/l | 99 |
| 25) 2-Butanone | 4.550 | 43 | 262160 | 254.074 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.458 | 77 | 95337 | 52.543 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 4.477 | 96 | 67216 | 49.246 | ug/l | 99 |
| 28) Bromochloromethane | 4.885 | 49 | 52685 | 47.215 | ug/l | 97 |
| 29) Tetrahydrofuran | 4.995 | 42 | 162193 | 250.853 | ug/l | 98 |
| 30) Chloroform | 5.080 | 83 | 122654 | 50.762 | ug/l | 95 |
| 31) Cyclohexane | 5.458 | 56 | 98339 | 46.552 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 106109 | 50.660 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.678 | 75 | 76348 | 48.791 | ug/l | 99 |
| 37) Ethyl Acetate | 4.702 | 43 | 97045 | 50.197 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.665 | 117 | 89504 | 50.907 | ug/l | 96 |
| 39) Methylcyclohexane | 7.372 | 83 | 96076 | 47.691 | ug/l | 97 |
| 40) Benzene | 6.025 | 78 | 228406 | 49.833 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046284.D
Acq On : 21 May 2025 09:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 01:44:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.909 | 41 | 56109 | 55.480 | ug/l | | 99 |
| 42) 1,2-Dichloroethane | 6.074 | 62 | 99497 | 50.298 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.330 | 43 | 156279 | 52.987 | ug/l | | 99 |
| 44) Trichloroethene | 7.116 | 130 | 55656 | 50.452 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 7.421 | 63 | 59253 | 51.990 | ug/l | | 98 |
| 46) Dibromomethane | 7.574 | 93 | 45422 | 50.531 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.811 | 83 | 94679 | 53.478 | ug/l | | 96 |
| 48) Methyl methacrylate | 7.689 | 41 | 81658 | 54.212 | ug/l | | 98 |
| 49) 1,4-Dioxane | 7.653 | 88 | 27967 | 977.870 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 8.567 | 43 | 514742 | 262.926 | ug/l | | 99 |
| 52) Toluene | 8.714 | 92 | 138588 | 49.311 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 85646 | 54.425 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 94157 | 54.136 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 57326 | 51.730 | ug/l | | 98 |
| 56) Ethyl methacrylate | 9.110 | 69 | 94728 | 53.634 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 98942 | 49.714 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 246422 | 273.669 | ug/l | | 100 |
| 59) 2-Hexanone | 9.427 | 43 | 382250 | 263.910 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.518 | 129 | 66902 | 54.971 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 58066 | 50.413 | ug/l | | 95 |
| 64) Tetrachloroethene | 9.268 | 164 | 52030 | 52.359 | ug/l | | 98 |
| 65) Chlorobenzene | 10.073 | 112 | 151979 | 49.440 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 54978 | 52.376 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 276408 | 51.011 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 202607 | 102.233 | ug/l | | 98 |
| 69) o-Xylene | 10.640 | 106 | 99977 | 51.746 | ug/l | | 99 |
| 70) Styrene | 10.652 | 104 | 170672 | 53.925 | ug/l | | 100 |
| 71) Bromoform | 10.799 | 173 | 43139 | 54.740 | ug/l | # | 97 |
| 73) Isopropylbenzene | 10.957 | 105 | 271177 | 51.463 | ug/l | | 100 |
| 74) N-amyl acetate | 10.841 | 43 | 134729 | 51.743 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 87943 | 47.625 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 80571m | 49.455 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 60921 | 49.799 | ug/l | | 99 |
| 78) n-propylbenzene | 11.299 | 91 | 316117 | 51.595 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 193981 | 49.086 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.445 | 105 | 226364 | 51.421 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.012 | 75 | 26609 | 53.175 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 225123 | 51.369 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.713 | 119 | 223522 | 50.408 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 231302 | 51.885 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 283817 | 52.129 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 234688 | 52.222 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.963 | 146 | 112832 | 50.537 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 113352 | 49.713 | ug/l | | 100 |
| 89) n-Butylbenzene | 12.329 | 91 | 212152 | 53.818 | ug/l | | 100 |
| 90) Hexachloroethane | 12.536 | 117 | 41588 | 52.527 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 12.329 | 146 | 114456 | 51.087 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 21272 | 52.001 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 66110 | 51.375 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 28949 | 51.510 | ug/l | | 98 |
| 95) Naphthalene | 13.774 | 128 | 233630 | 49.502 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 68077 | 51.272 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046284.D
Acq On : 21 May 2025 09:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 01:44:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

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

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

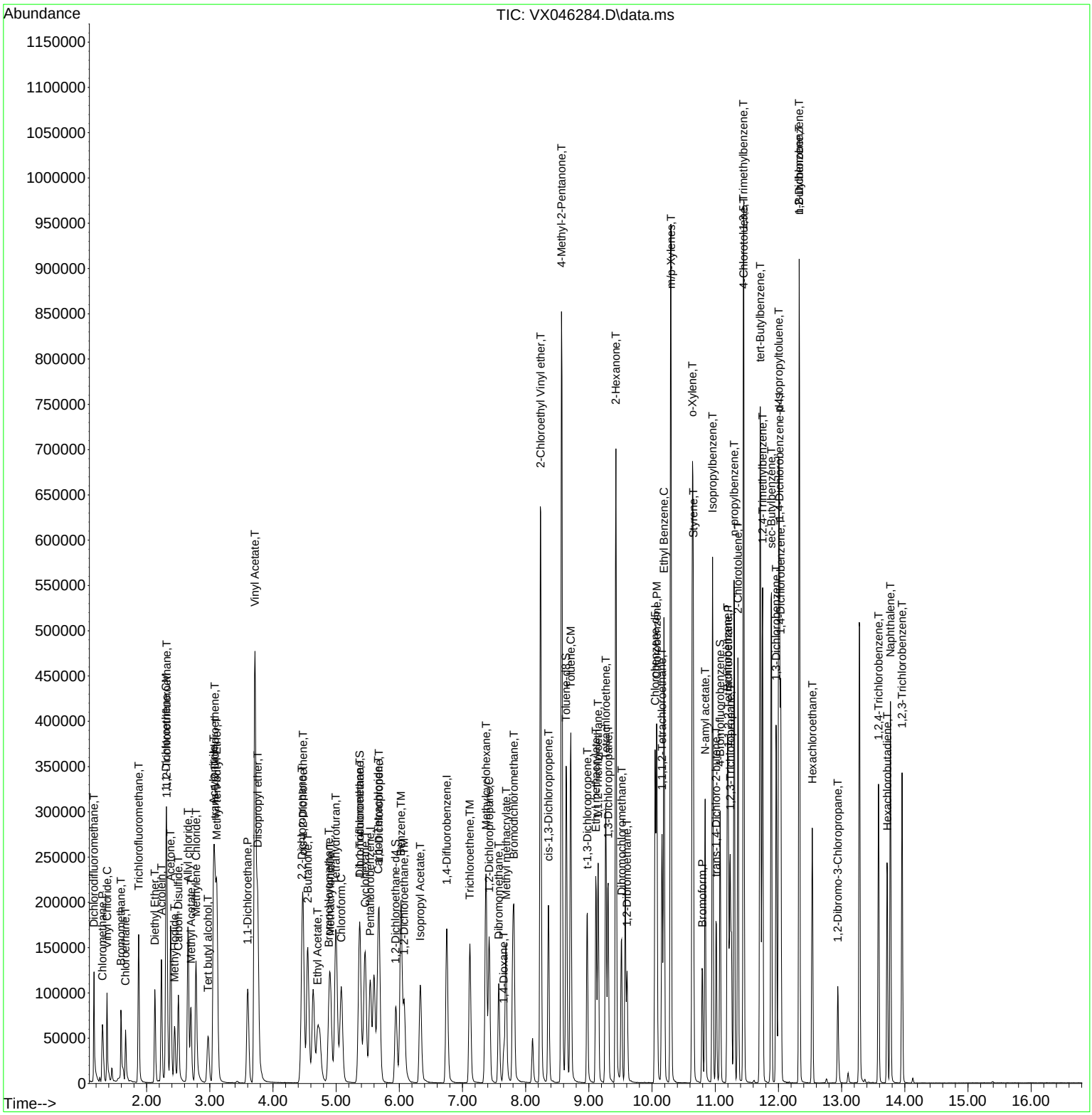
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046284.D
Acq On : 21 May 2025 09:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

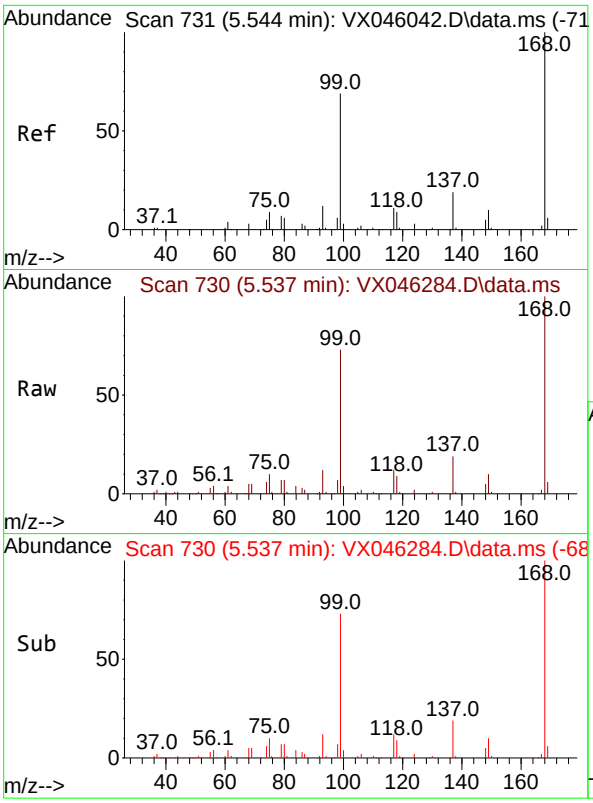
Quant Time: May 22 01:44:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

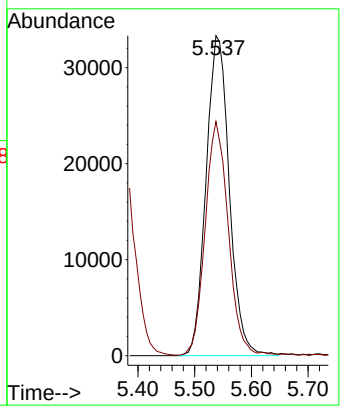





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:168 Resp: 9508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 72.9 | 54.9 | 82.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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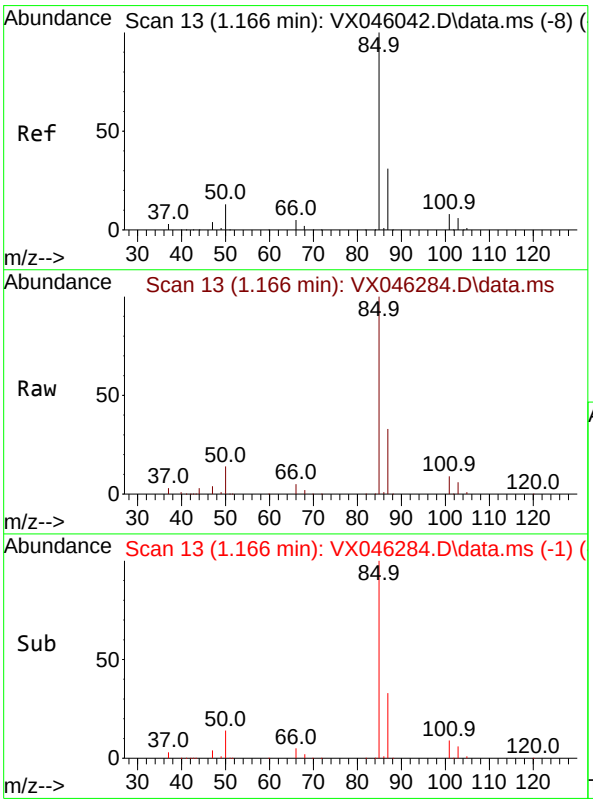
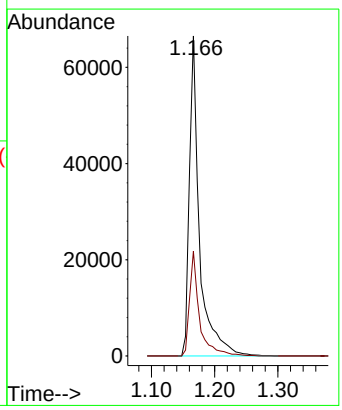
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

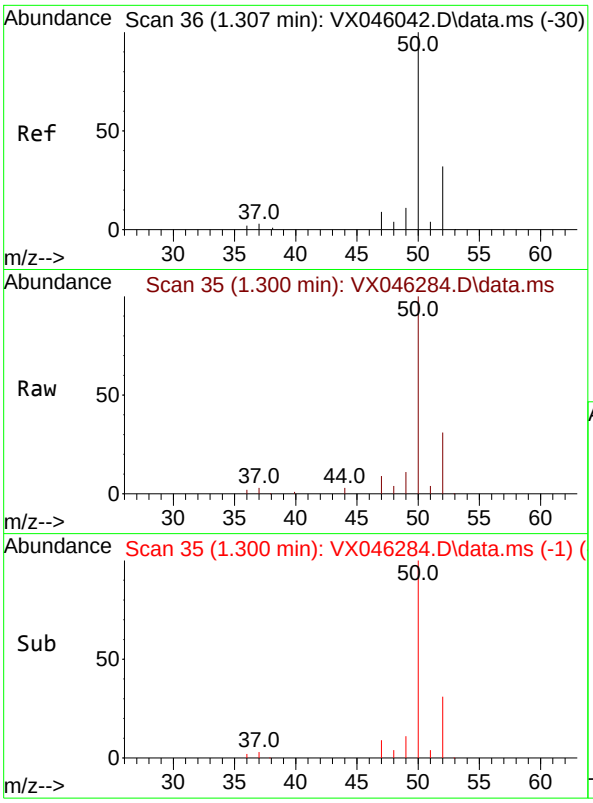



#2
Dichlorodifluoromethane
Concen: 50.666 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 85 Resp: 73733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.8 | 15.7 | 47.1 |

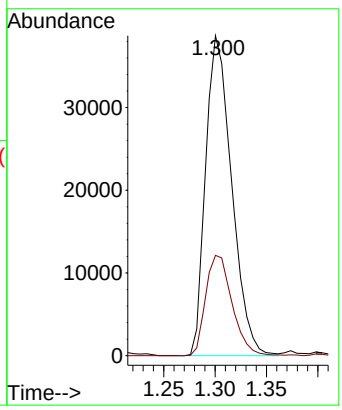





#3
Chloromethane
Concen: 48.364 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 50 Resp: 6825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.4 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
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VSTDCCC050

**Manual Integrations**
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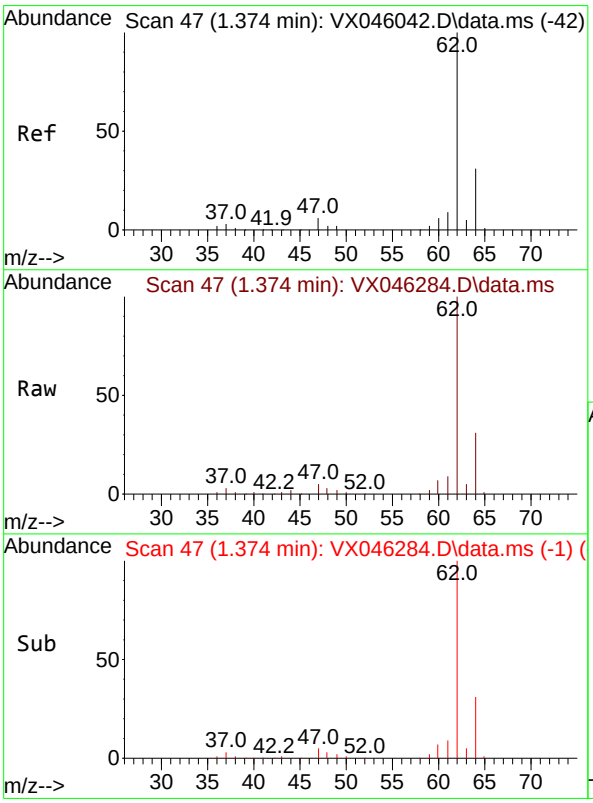
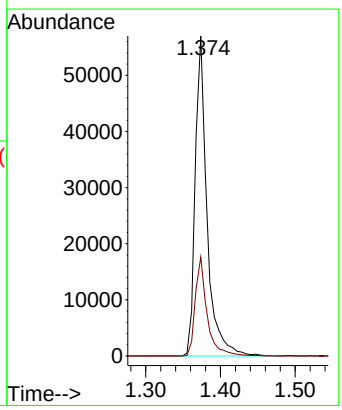
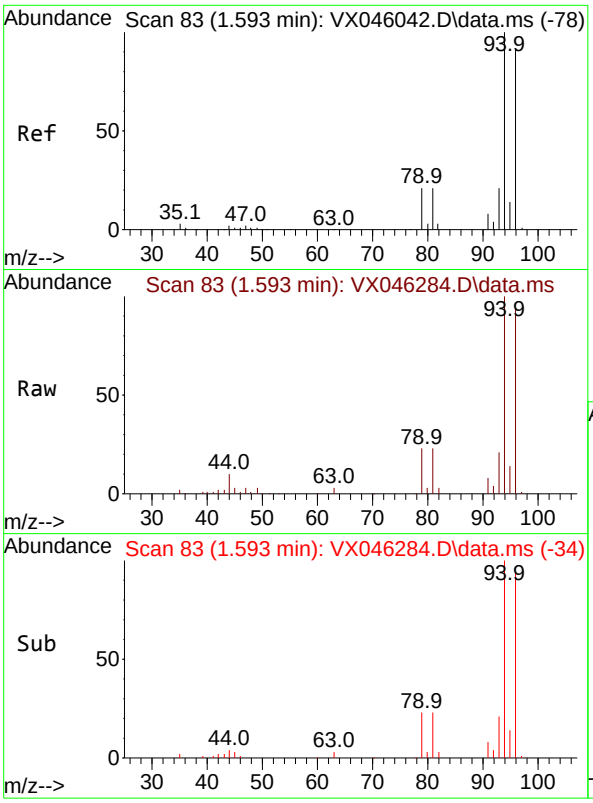



#4
Vinyl Chloride
Concen: 47.612 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 62 Resp: 62535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.9 | 25.2 | 37.8 |

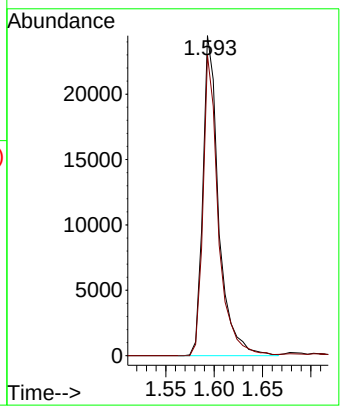





#5
Bromomethane
Concen: 46.032 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 94 Resp: 2804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.9 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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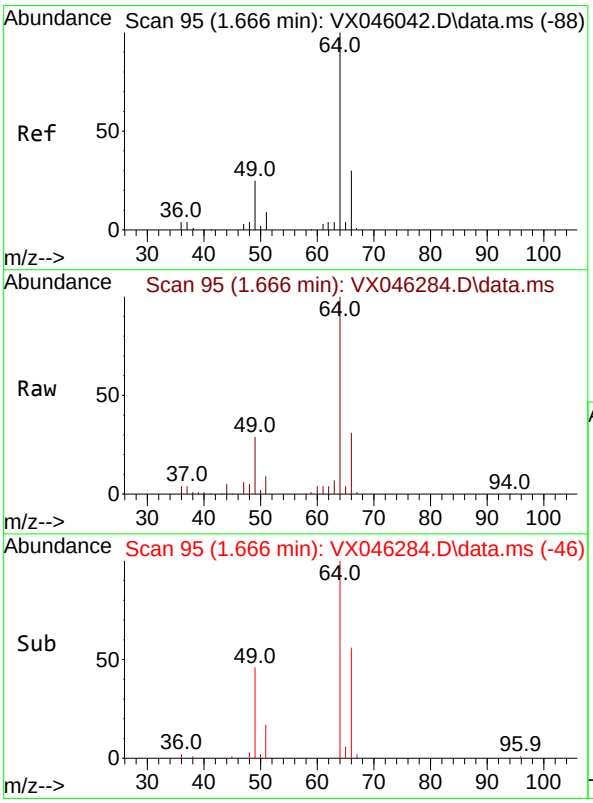
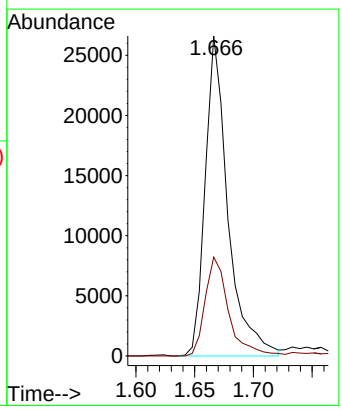
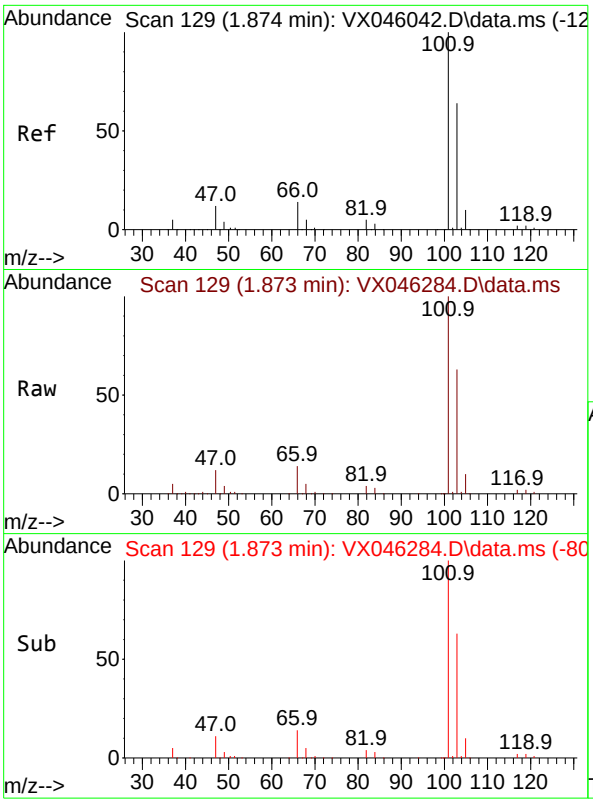



#6
Chloroethane
Concen: 50.964 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 64 Resp: 35734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.9 | 24.3 | 36.5 |

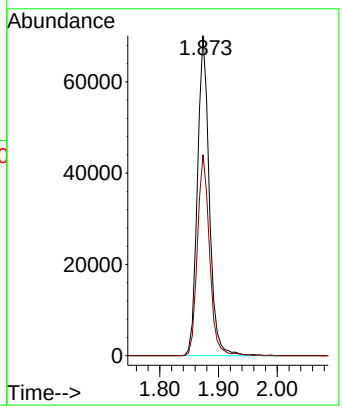





#7
Trichlorofluoromethane
Concen: 50.803 ug/l
RT: 1.873 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:101 Resp: 9861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.8 | 51.0 | 76.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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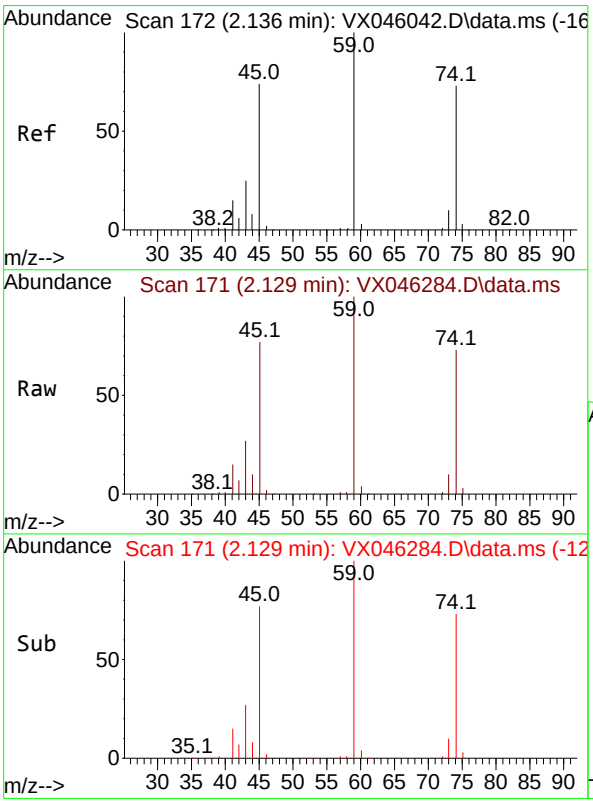
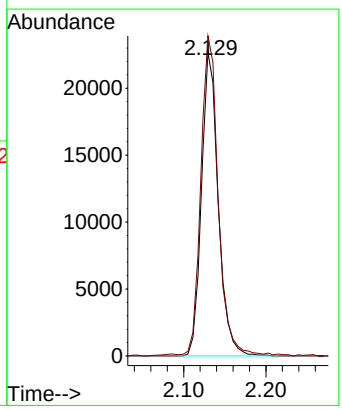
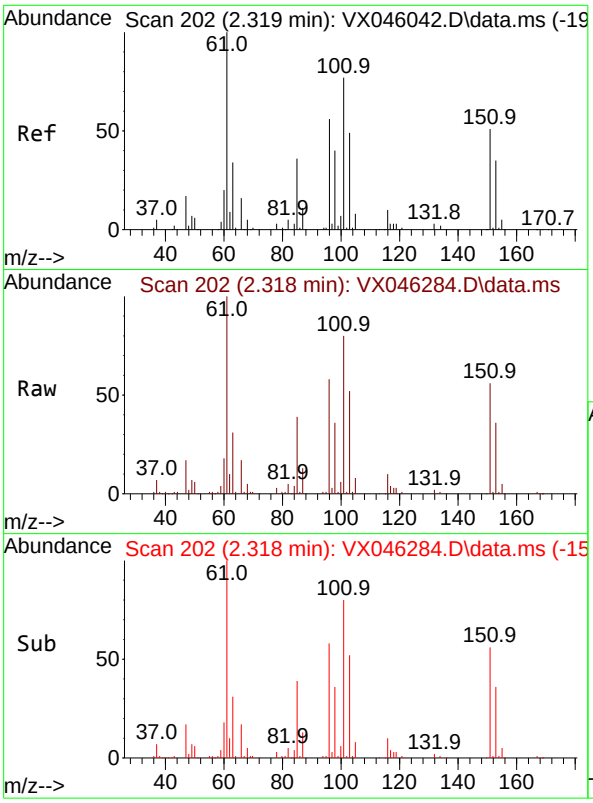



#8
Diethyl Ether
Concen: 48.764 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 74 Resp: 32223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 110.4 | 54.9 | 164.8 |

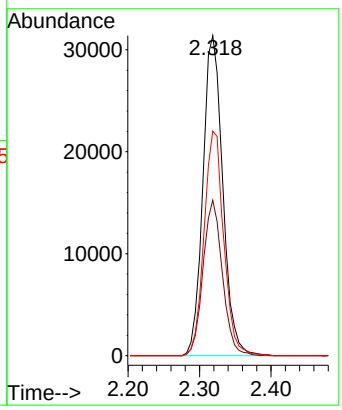





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.314 ug/l
RT: 2.318 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:101 Resp: 6044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.3 | 38.6 | 58.0 |
| 151 | 69.8 | 55.2 | 82.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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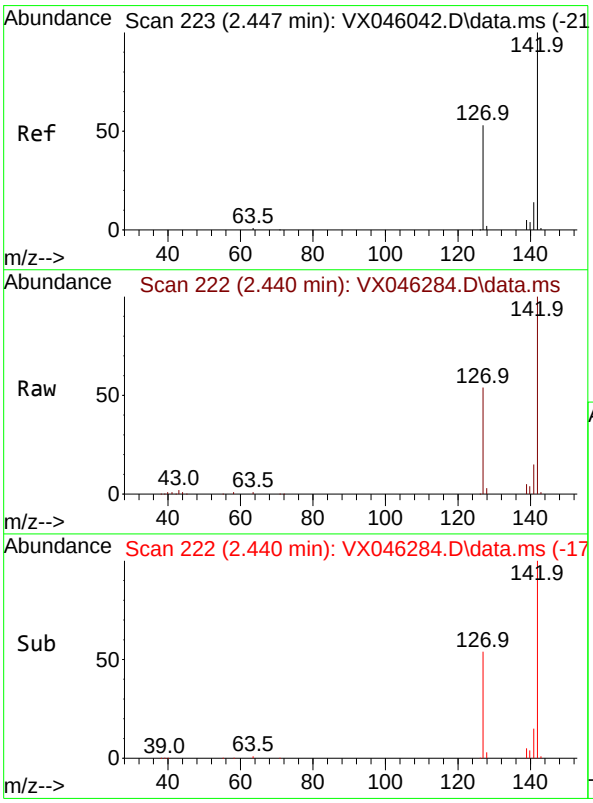
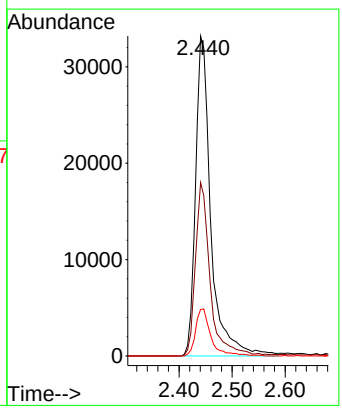
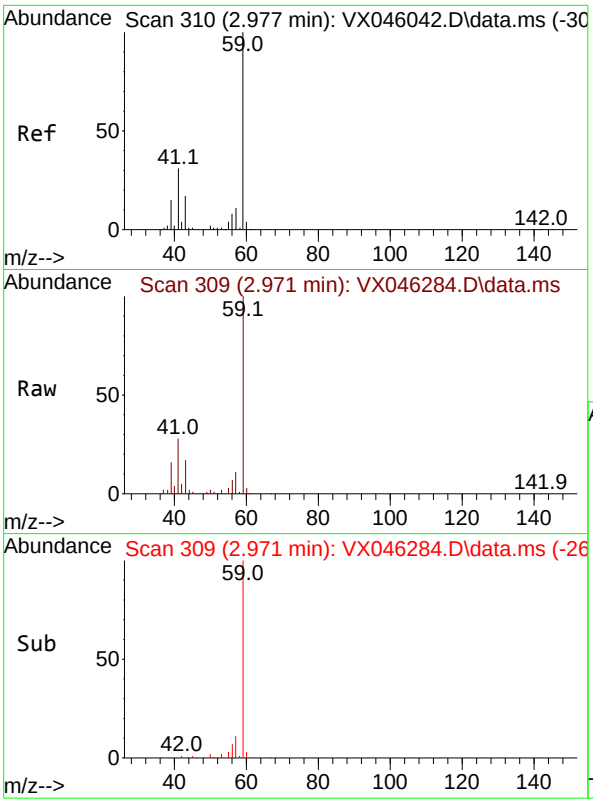



#10
Methyl Iodide
Concen: 46.821 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:142 Resp: 66552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 52.8 | 41.7 | 62.5 |
| 141 | 14.7 | 11.5 | 17.3 |

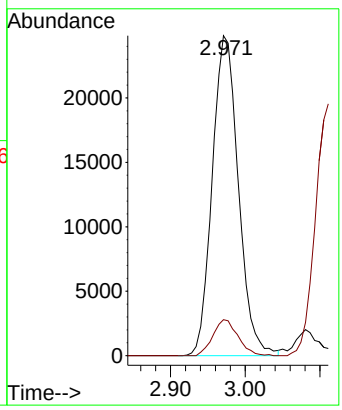





#11
Tert butyl alcohol
Concen: 242.803 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 59 Resp: 6041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.6 | 12.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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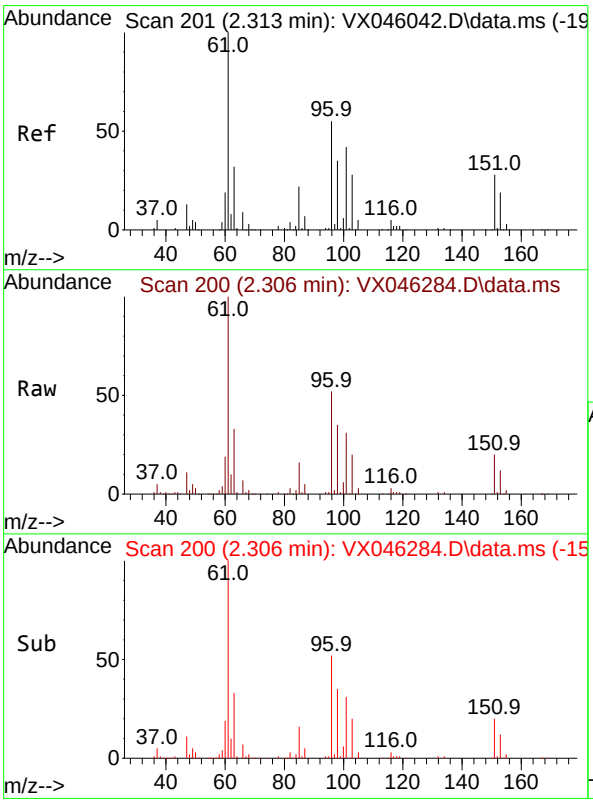
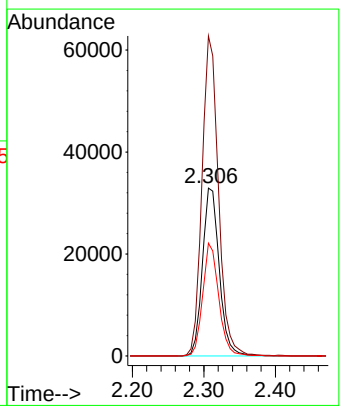
Supervised By :Mahesh Dadoda 05/22/2025

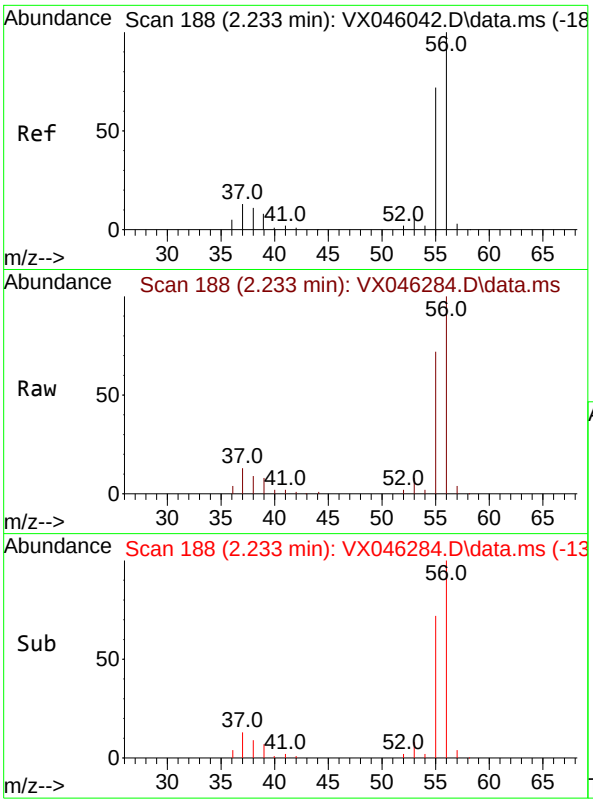



#12
1,1-Dichloroethene
Concen: 47.678 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 96 Resp: 53753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 190.6 | 146.2 | 219.2 |
| 98 | 67.2 | 51.0 | 76.6 |

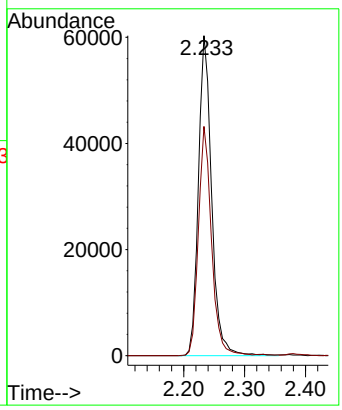





#13
Acrolein
Concen: 321.031 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 56 Resp: 9096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.1 | 56.2 | 84.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

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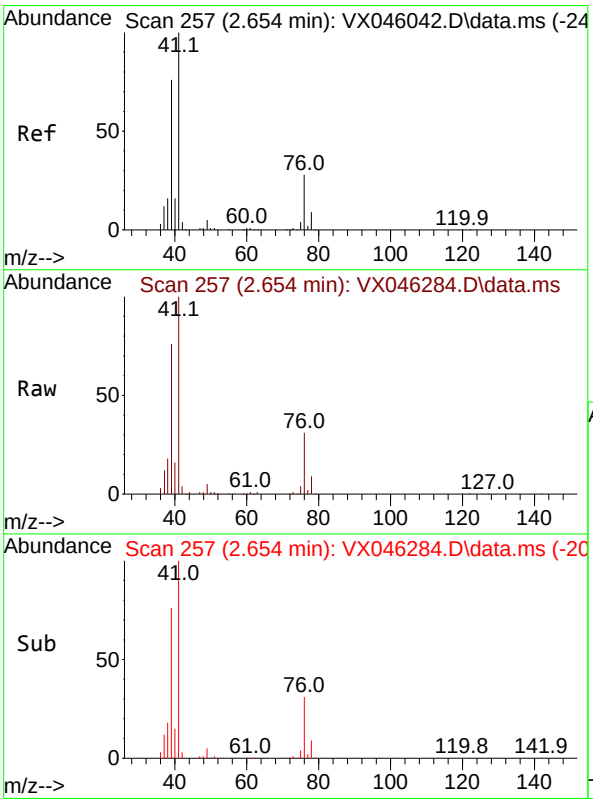
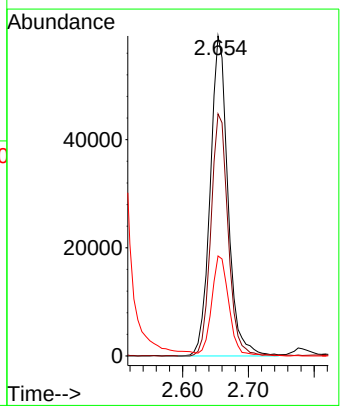
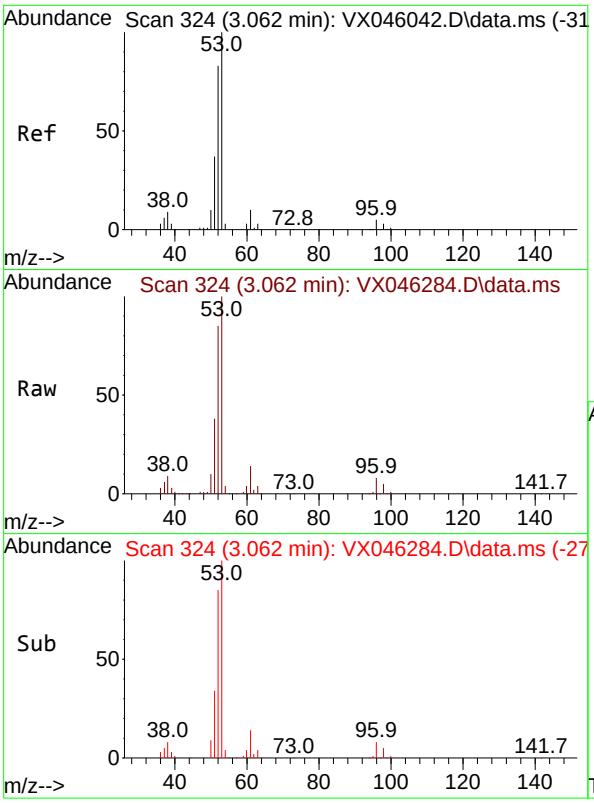



#14
Allyl chloride
Concen: 51.600 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 41 Resp: 111182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 73.3 | 60.6 | 90.8 |
| 76 | 30.2 | 24.9 | 37.3 |






#15
Acrylonitrile
Concen: 255.100 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 53 Resp: 18149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.7 | 65.3 | 97.9 |
| 51 | 38.5 | 29.8 | 44.8 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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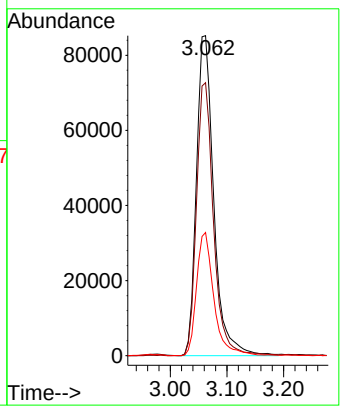
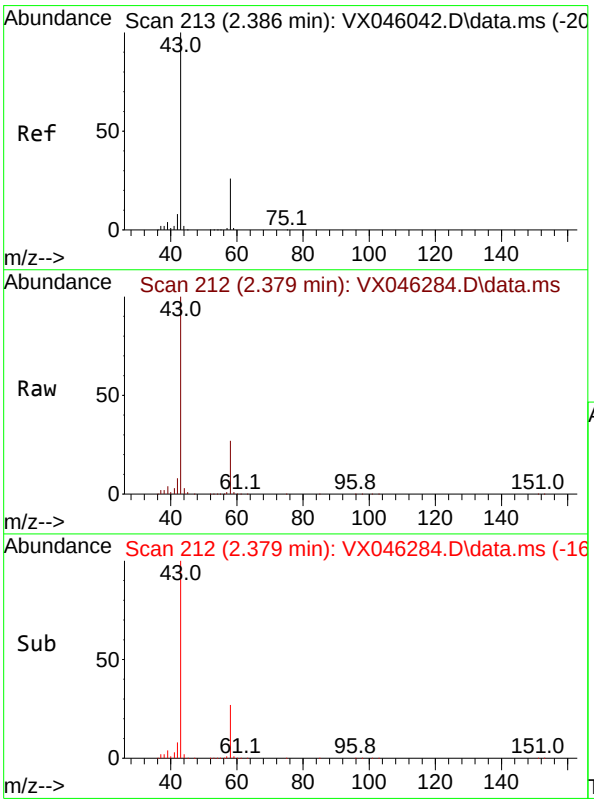
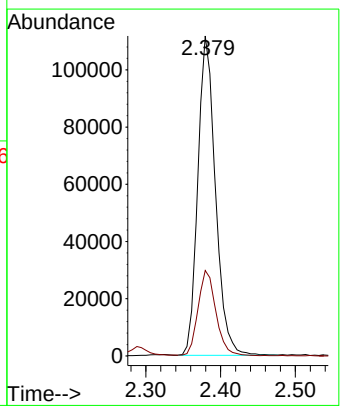


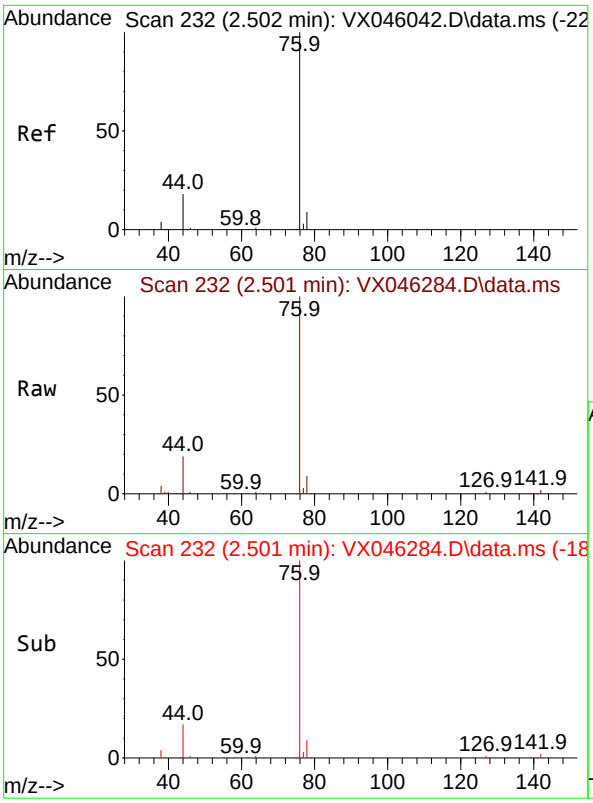




#16
Acetone
Concen: 257.477 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 43 Resp: 182996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.6 | 21.2 | 31.8 |






#17
Carbon Disulfide
Concen: 45.096 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 76 Resp: 12053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.9 | 7.0 | 10.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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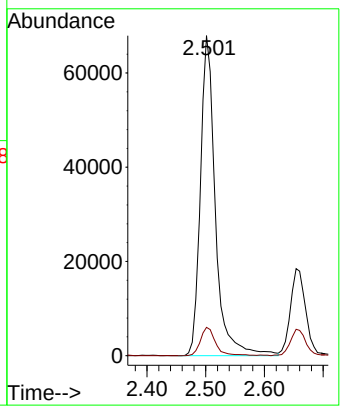
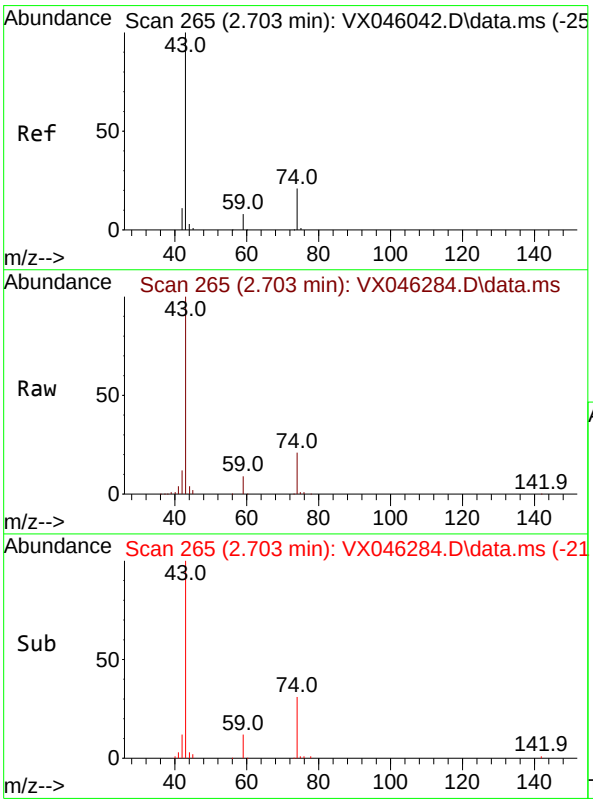
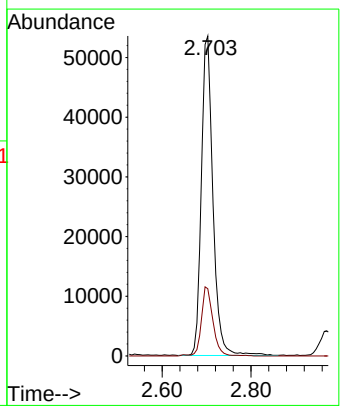


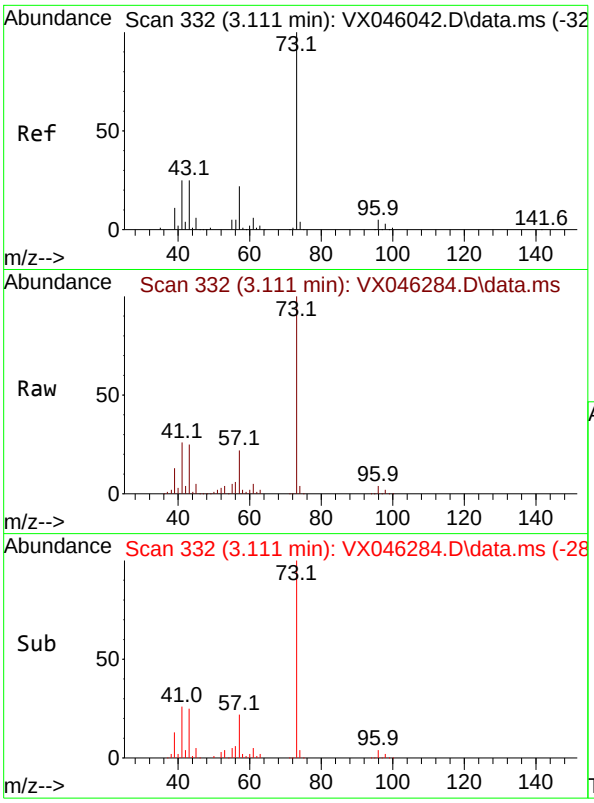




#18
Methyl Acetate
Concen: 59.105 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 43 Resp: 97480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 21.6 | 16.7 | 25.1 |






#19
Methyl tert-butyl Ether
Concen: 51.499 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

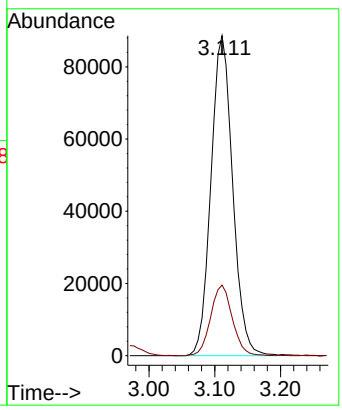
Tgt Ion: 73 Resp: 20355

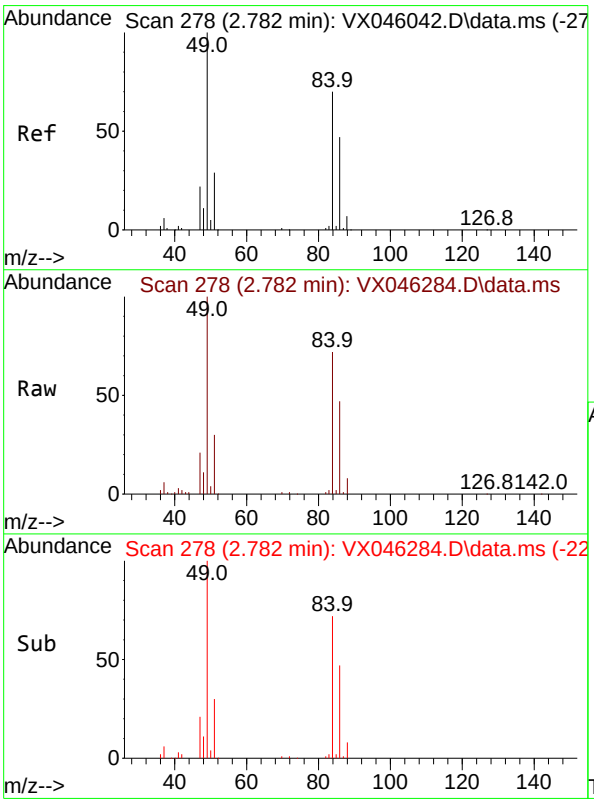
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.1 | 17.7 | 26.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

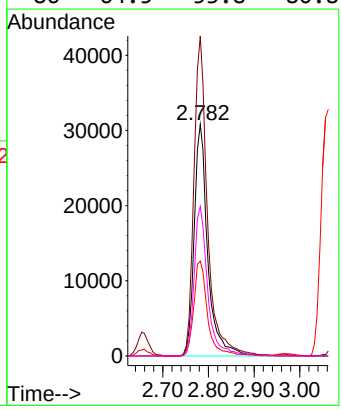


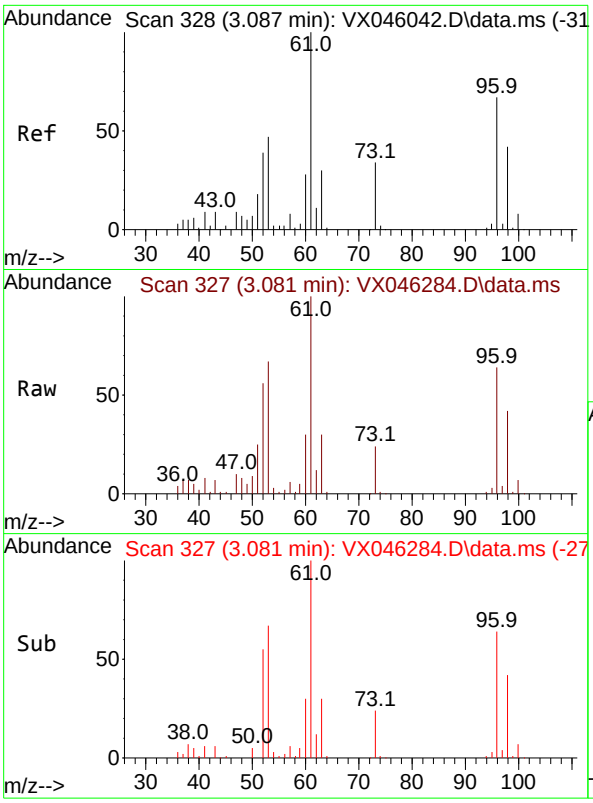




#20
Methylene Chloride
Concen: 46.691 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 84 Resp: 63593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 138.2 | 113.9 | 170.9 |
| 51 | 41.0 | 33.5 | 50.3 |
| 86 | 64.5 | 53.8 | 80.8 |

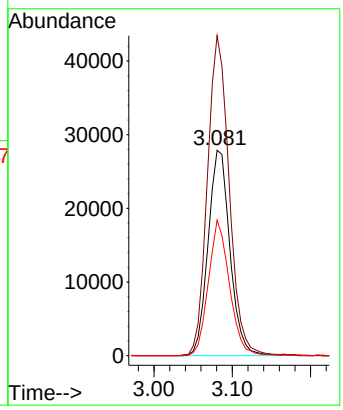





#21
trans-1,2-Dichloroethene
Concen: 47.714 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 96 Resp: 5409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 155.7 | 119.5 | 179.3 |
| 98 | 66.0 | 50.0 | 75.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

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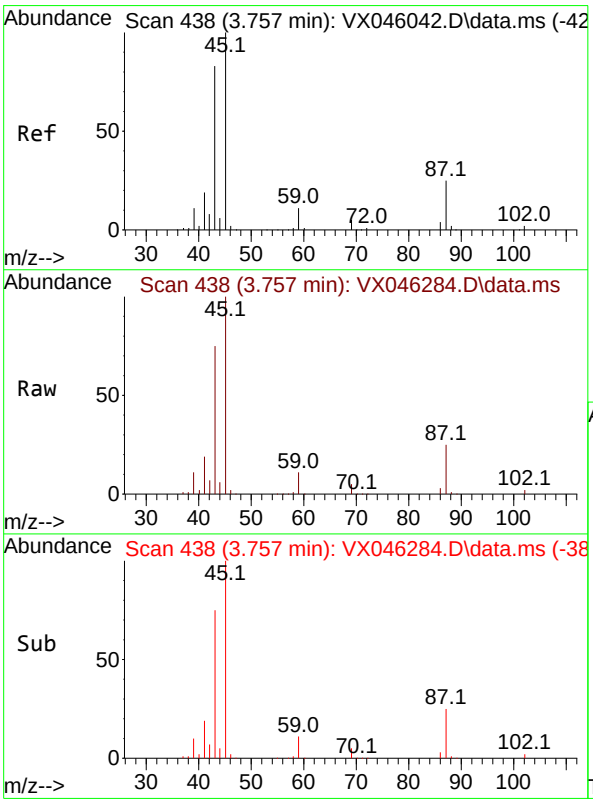
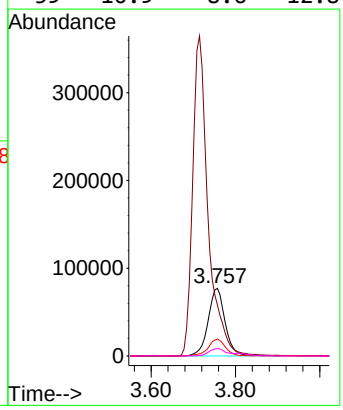
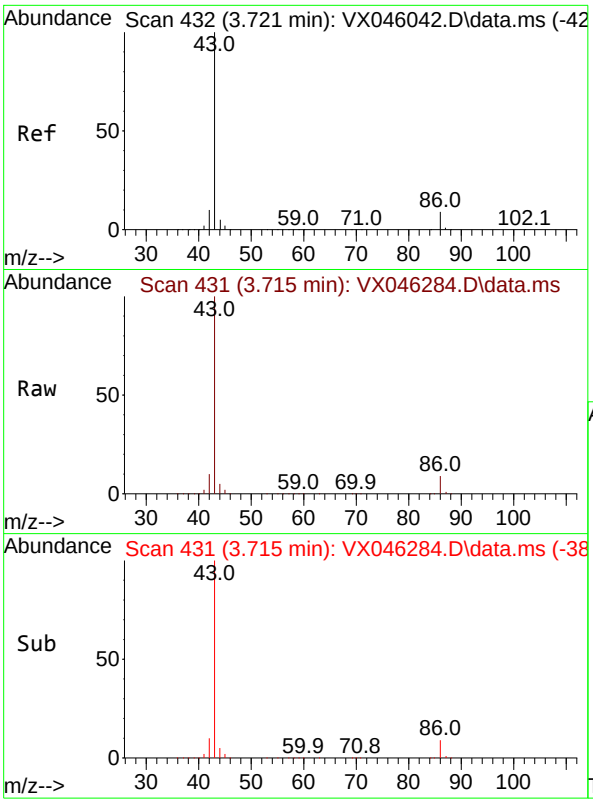



#22
Diisopropyl ether
Concen: 51.803 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 45 Resp: 215610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 75.3 | 66.6 | 100.0 |
| 87 | 25.0 | 19.8 | 29.6 |
| 59 | 10.9 | 8.6 | 12.8 |

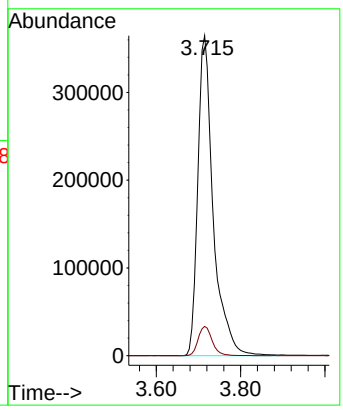





#23
Vinyl Acetate
Concen: 254.084 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 43 Resp: 93012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.2 | 7.5 | 11.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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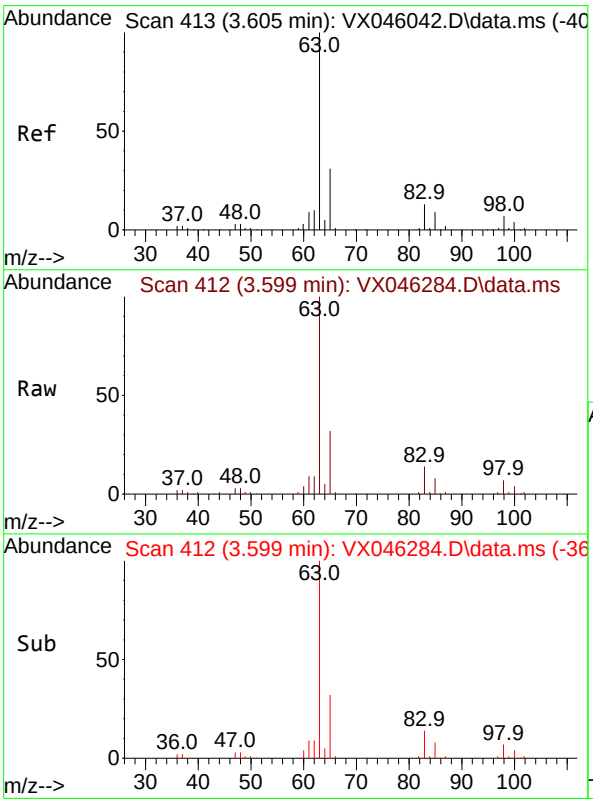
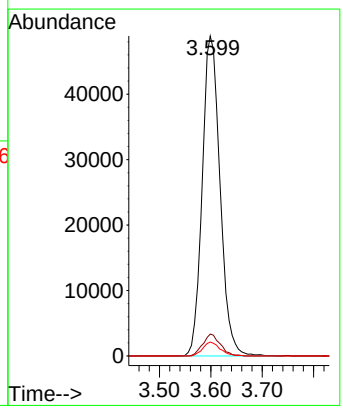
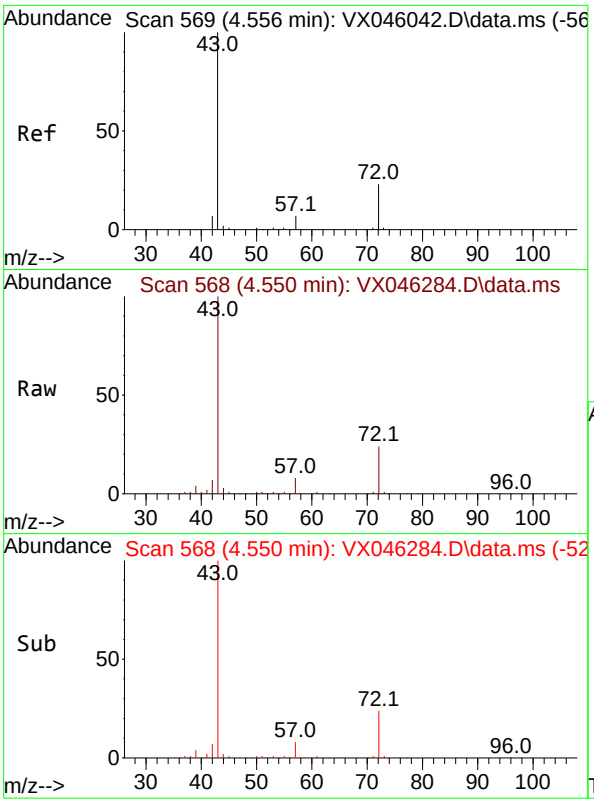



#24
1,1-Dichloroethane
Concen: 50.800 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 63 Resp: 117763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.8 | 3.6 | 10.8 |
| 100 | 4.4 | 2.1 | 6.3 |

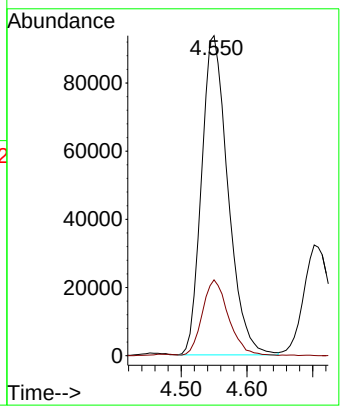





#25
2-Butanone
Concen: 254.074 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 43 Resp: 26216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.7 | 18.4 | 27.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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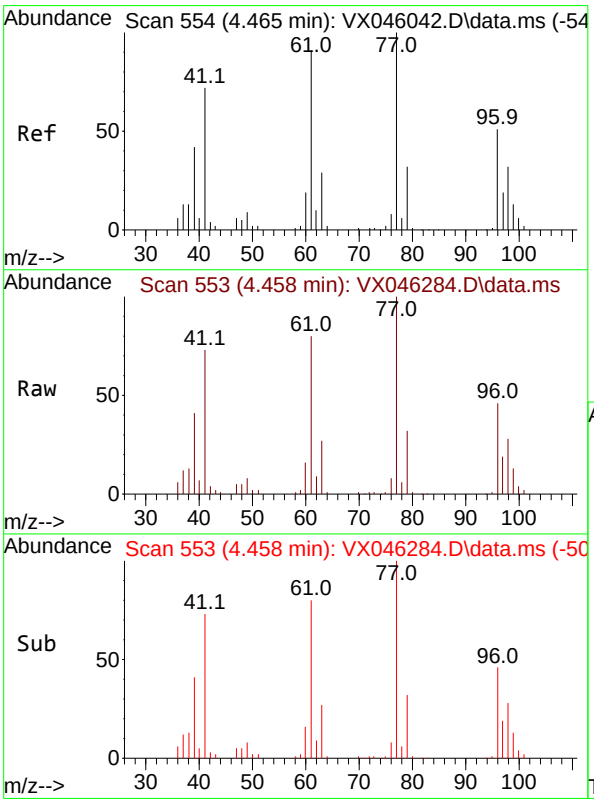
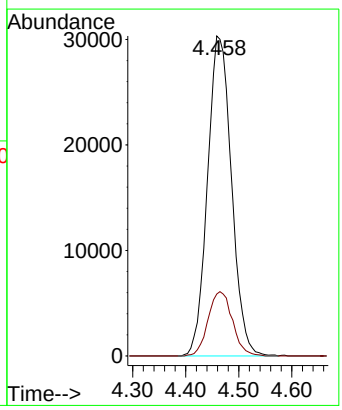
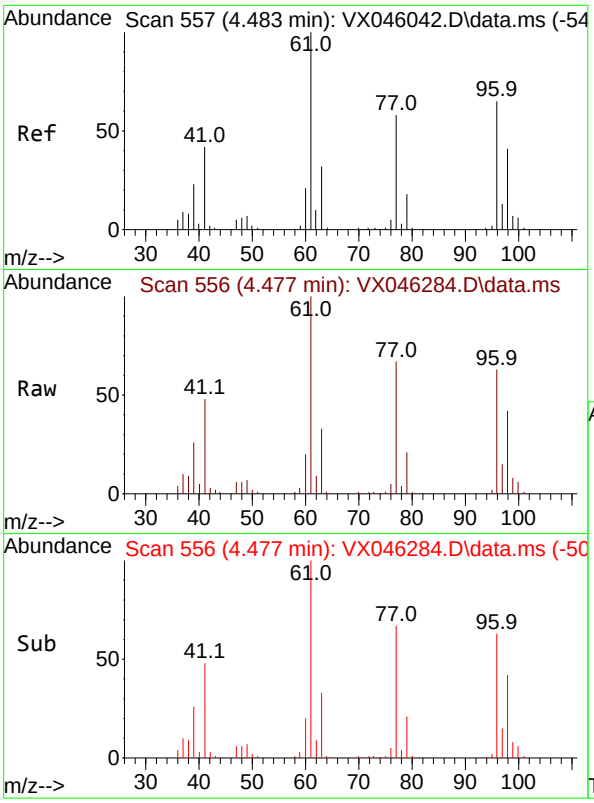



#26
2,2-Dichloropropane
Concen: 52.543 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 77 Resp: 95337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 20.3 | 10.5 | 31.5 |

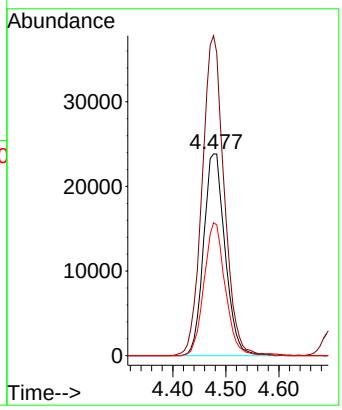





#27
cis-1,2-Dichloroethene
Concen: 49.246 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 96 Resp: 6721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.3 | 0.0 | 322.8 |
| 98 | 64.6 | 0.0 | 129.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

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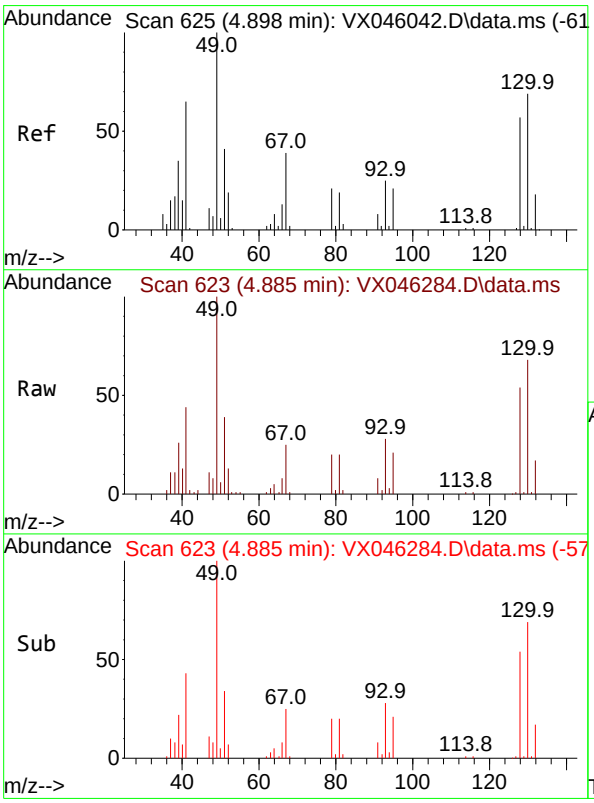
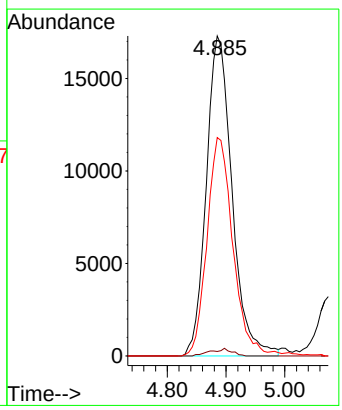
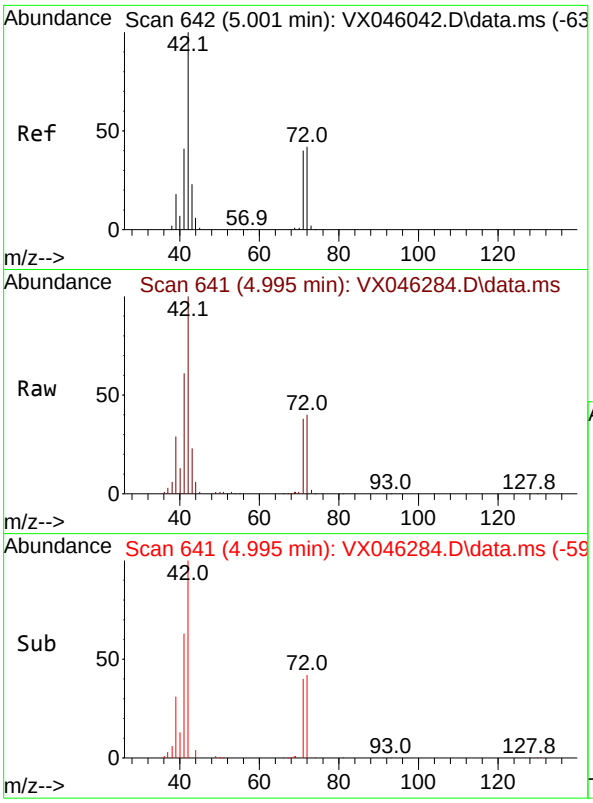



#28
Bromochloromethane
Concen: 47.215 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.012 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 49 Resp: 52685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 4.0 |
| 130 | 68.0 | 56.2 | 84.2 |






#29
Tetrahydrofuran
Concen: 250.853 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 42 Resp: 16219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.4 | 33.7 | 50.5 |
| 71 | 37.8 | 31.4 | 47.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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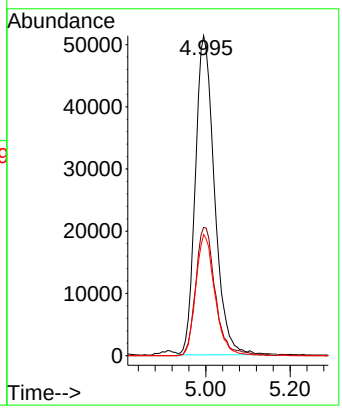
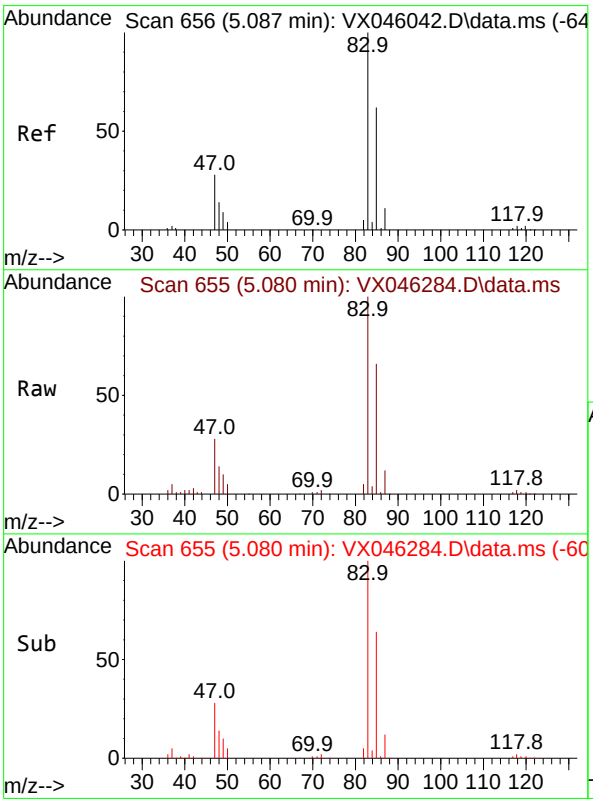
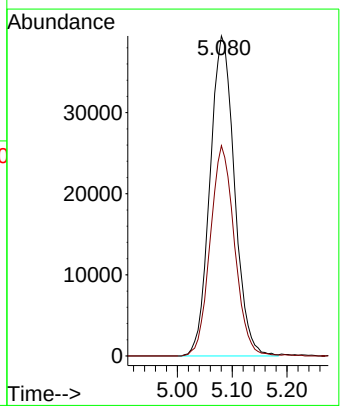


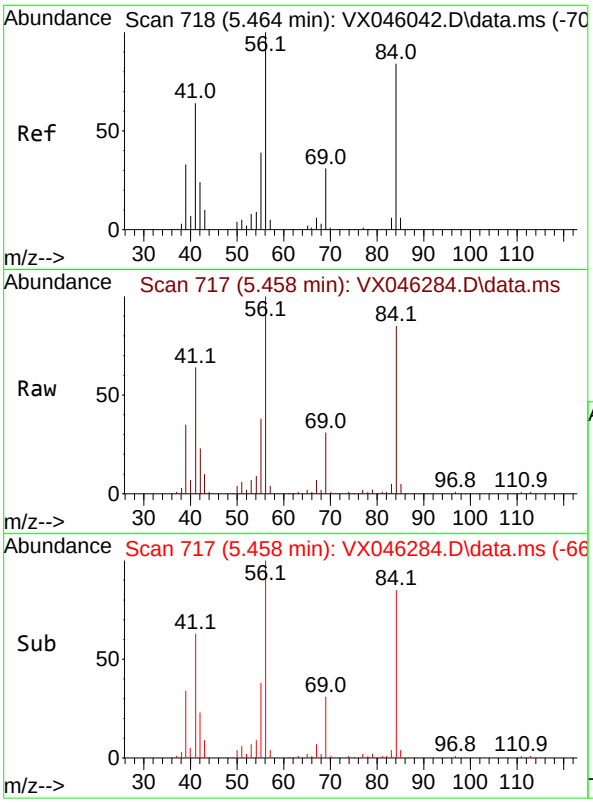




#30
Chloroform
Concen: 50.762 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 83 Resp: 122654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.7 | 49.3 | 73.9 |

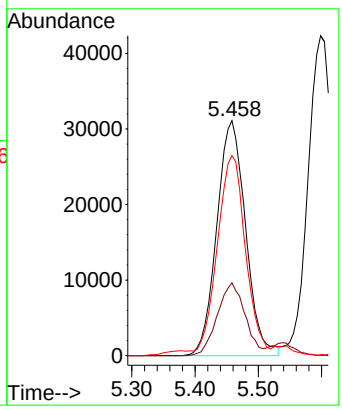





#31
Cyclohexane
Concen: 46.552 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 56 Resp: 9833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.0 | 24.4 | 36.6 |
| 84 | 83.0 | 66.9 | 100.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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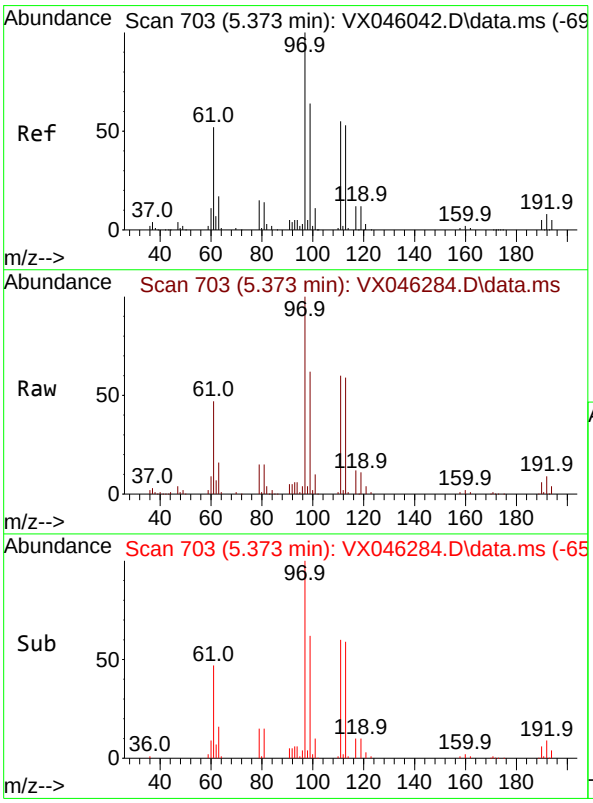
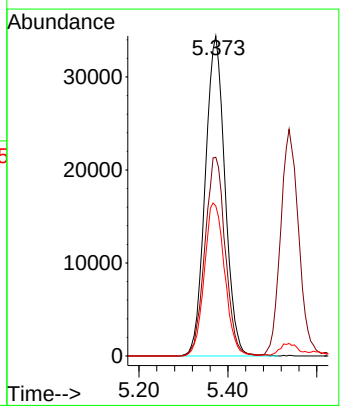
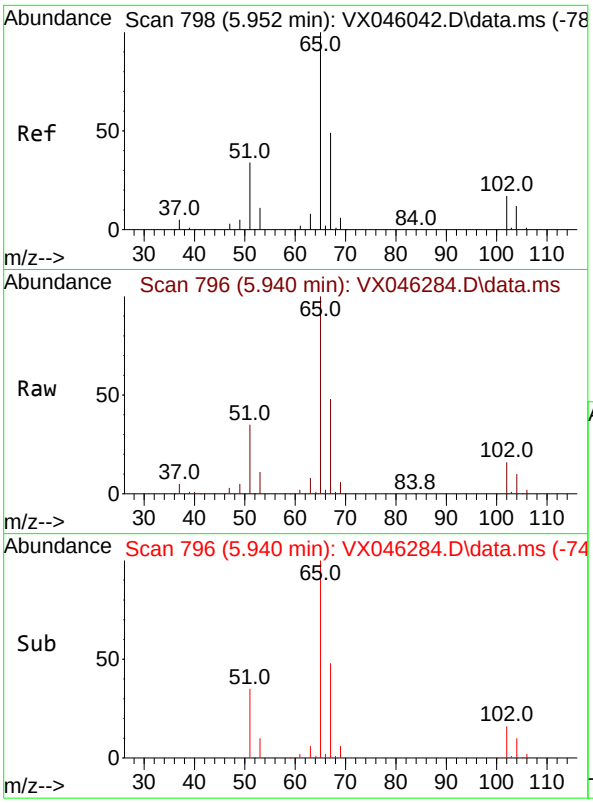



#32
1,1,1-Trichloroethane
Concen: 50.660 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 97 Resp: 106109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.0 | 51.8 | 77.6 |
| 61 | 49.6 | 40.1 | 60.1 |

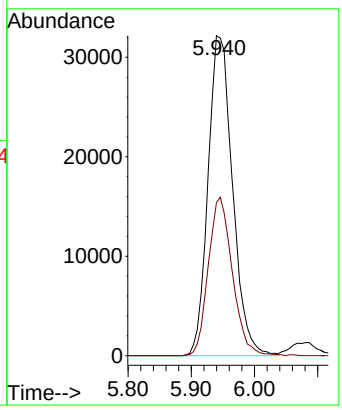





#33
1,2-Dichloroethane-d4
Concen: 48.949 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 65 Resp: 8676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.6 | 0.0 | 99.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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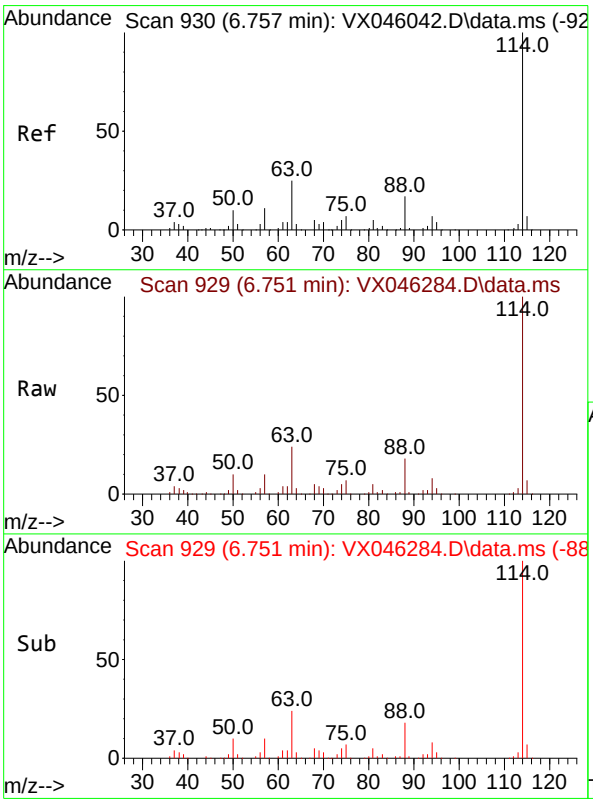
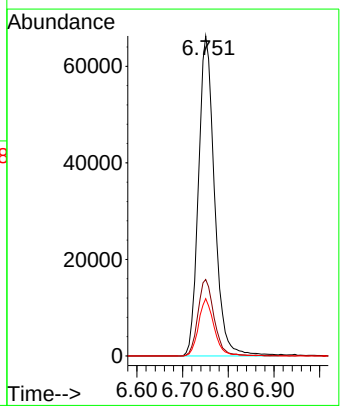
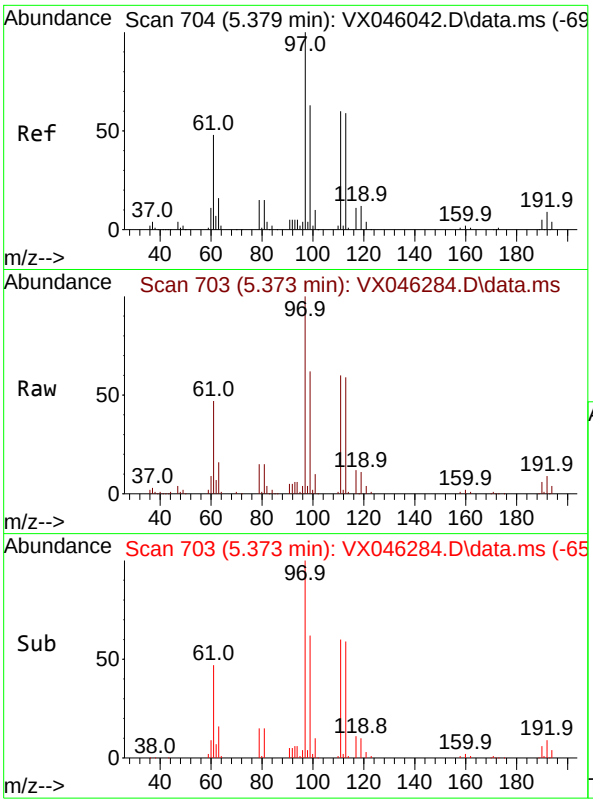



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:114 Resp: 161730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.9 | 0.0 | 49.2 |
| 88 | 17.9 | 0.0 | 33.6 |

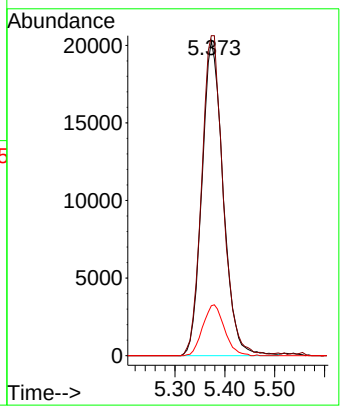





#35
Dibromofluoromethane
Concen: 51.518 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:113 Resp: 5999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.7 | 83.1 | 124.7 |
| 192 | 16.4 | 13.3 | 19.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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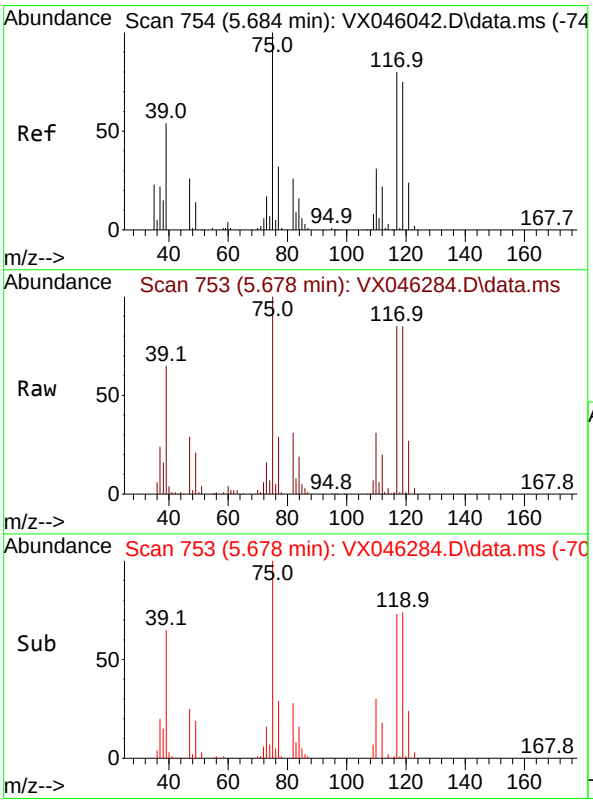
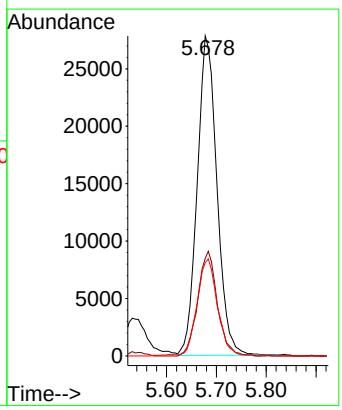
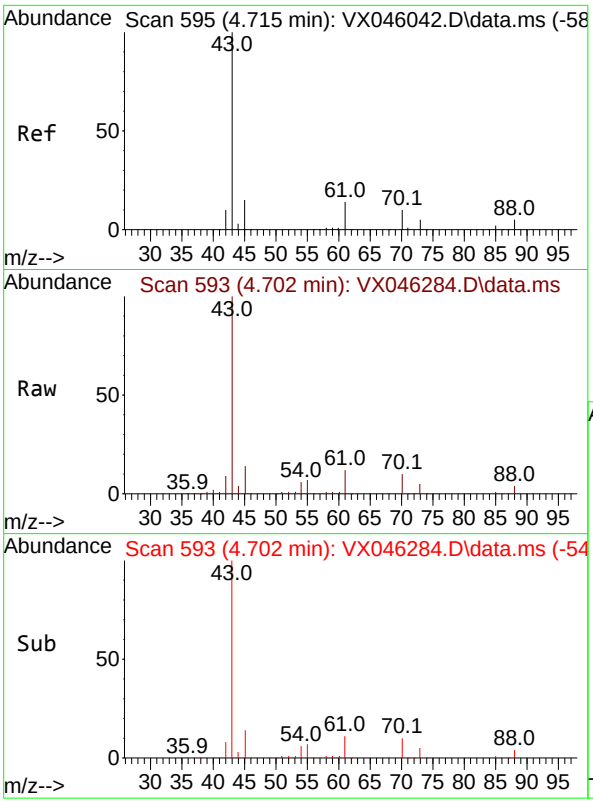



#36
1,1-Dichloropropene
Concen: 48.791 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 75 Resp: 76348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 32.7 | 16.3 | 48.9 |
| 77 | 31.6 | 24.3 | 36.5 |

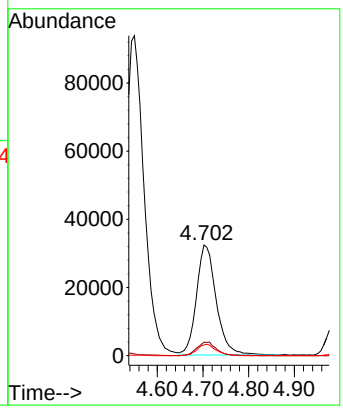





#37
Ethyl Acetate
Concen: 50.197 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 43 Resp: 9704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 12.4 | 10.3 | 15.5 |
| 70 | 9.9 | 7.9 | 11.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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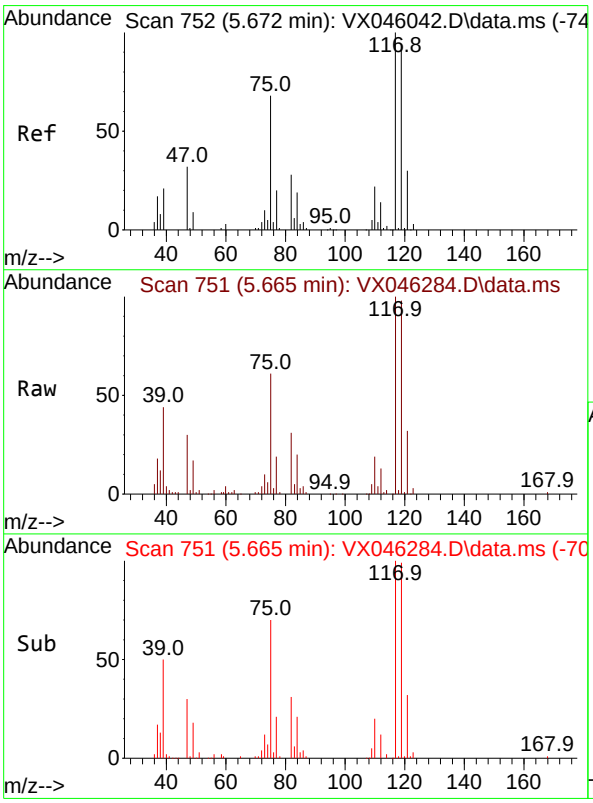
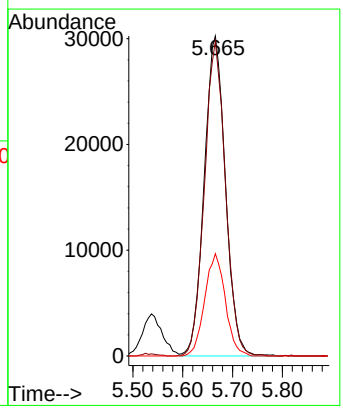
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

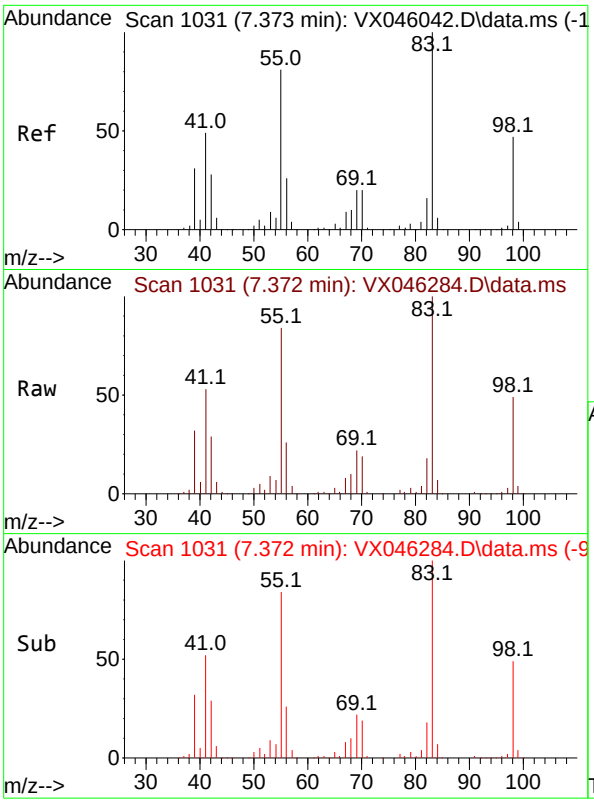



#38
Carbon Tetrachloride
Concen: 50.907 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:117 Resp: 89504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.3 | 75.2 | 112.8 |
| 121 | 32.0 | 24.2 | 36.4 |

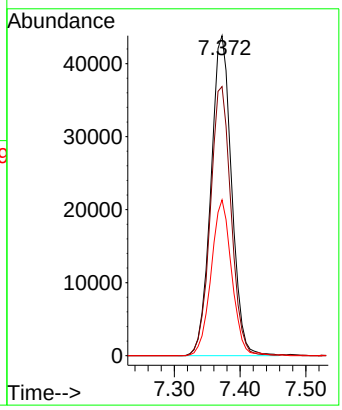





#39
Methylcyclohexane
Concen: 47.691 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 83 Resp: 9607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 84.1 | 64.7 | 97.1 |
| 98 | 48.7 | 37.4 | 56.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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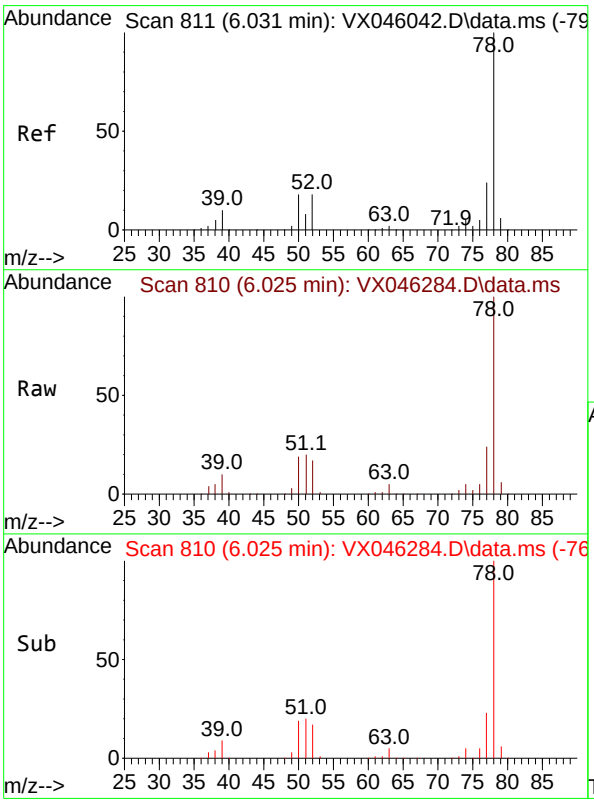
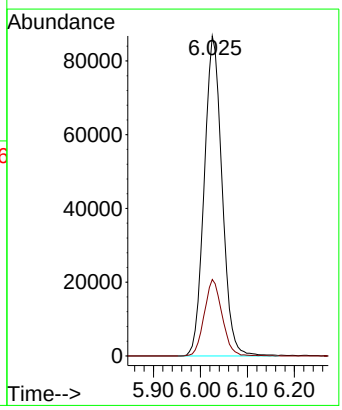
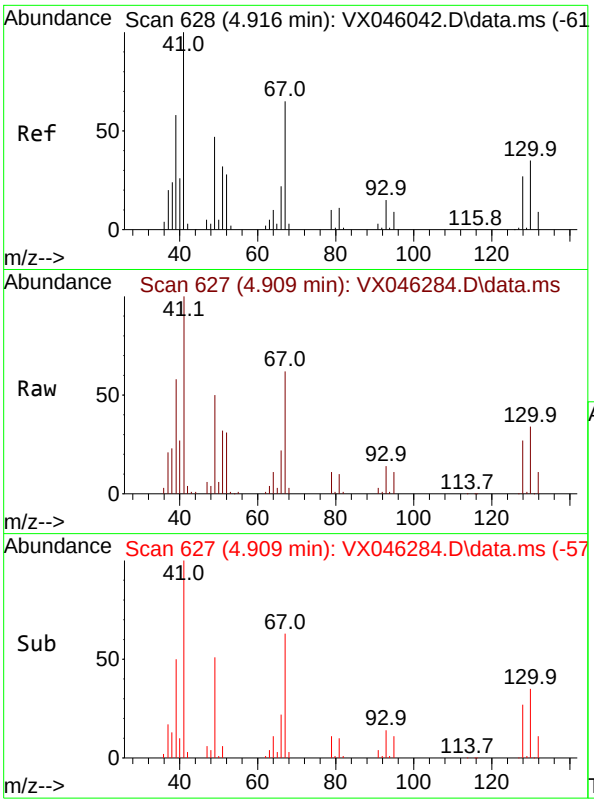



#40
Benzene
Concen: 49.833 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 78 Resp: 228406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 19.0 | 28.4 |

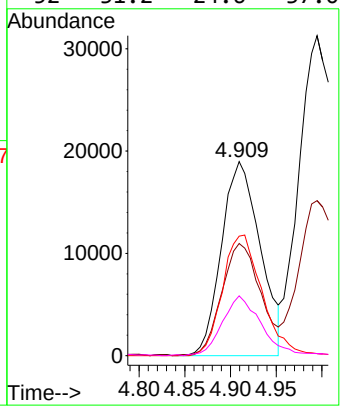





#41
Methacrylonitrile
Concen: 55.480 ug/l
RT: 4.909 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 41 Resp: 5610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.9 | 47.2 | 70.8 |
| 67 | 63.5 | 50.7 | 76.1 |
| 52 | 31.2 | 24.6 | 37.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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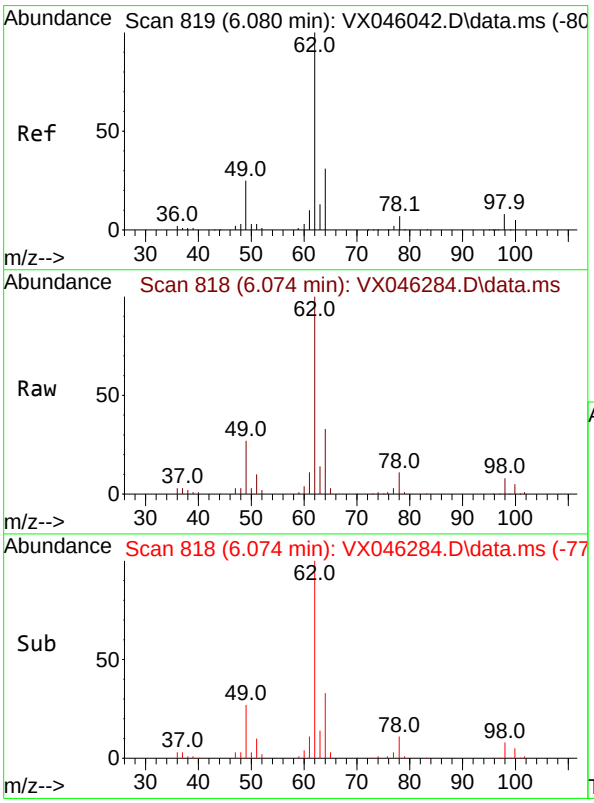
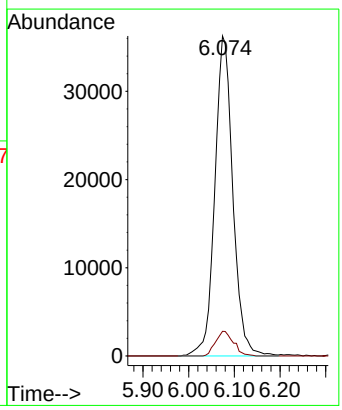
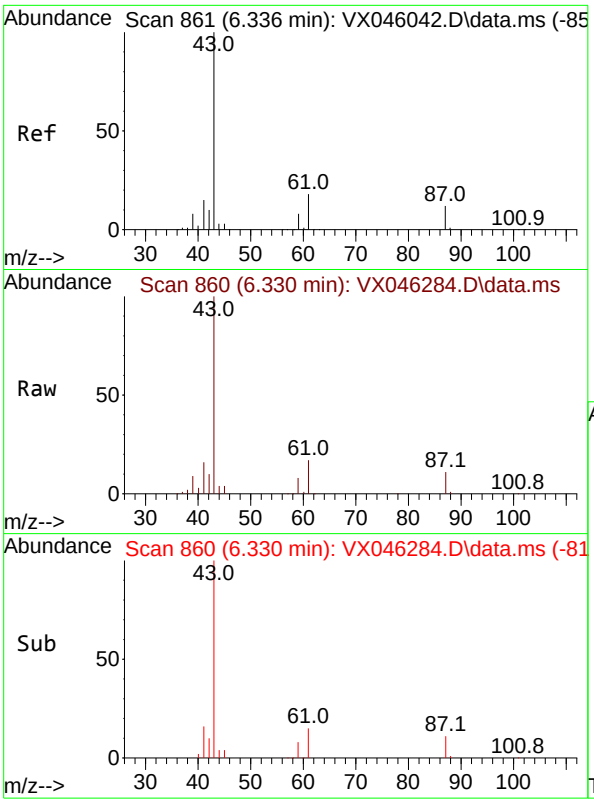



#42
1,2-Dichloroethane
Concen: 50.298 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 62 Resp: 99497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.7 | 0.0 | 15.2 |






#43
Isopropyl Acetate
Concen: 52.987 ug/l
RT: 6.330 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 43 Resp: 15627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 17.5 | 14.3 | 21.5 |
| 87 | 11.3 | 9.5 | 14.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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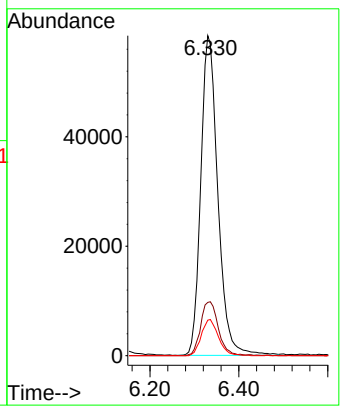
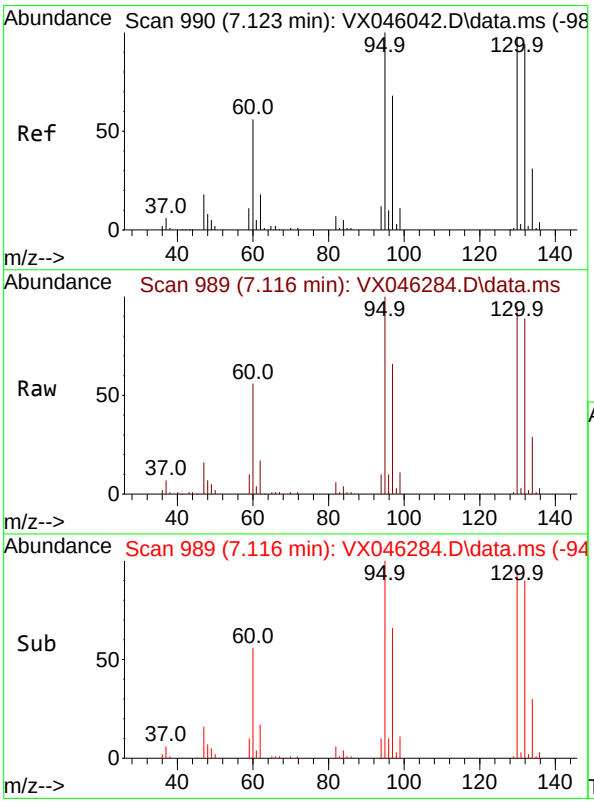
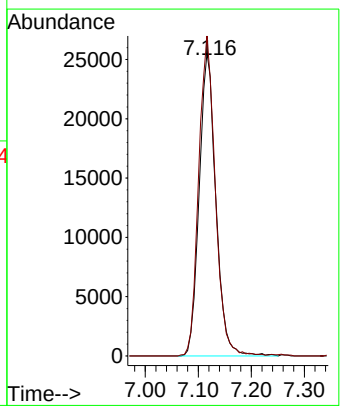


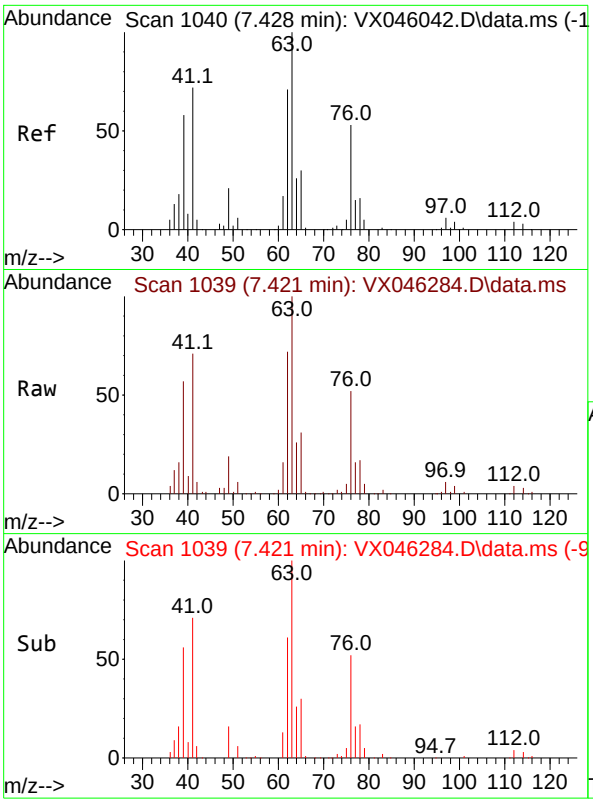




#44
Trichloroethene
Concen: 50.452 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:130 Resp: 55656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 105.6 | 0.0 | 204.2 |

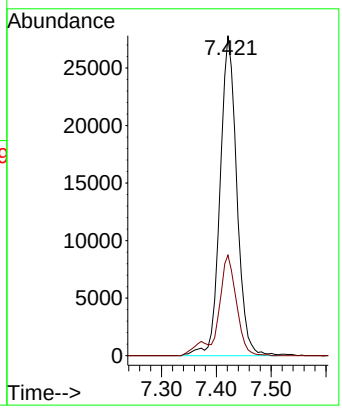





#45
1,2-Dichloropropane
Concen: 51.990 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 63 Resp: 5925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.4 | 24.1 | 36.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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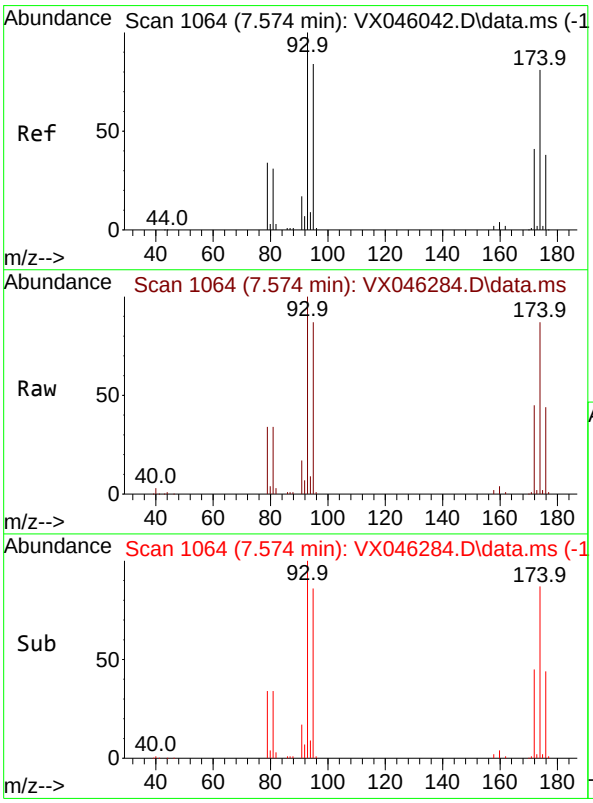
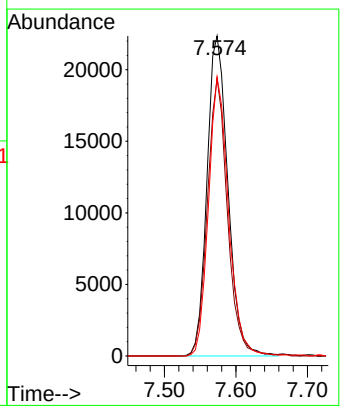
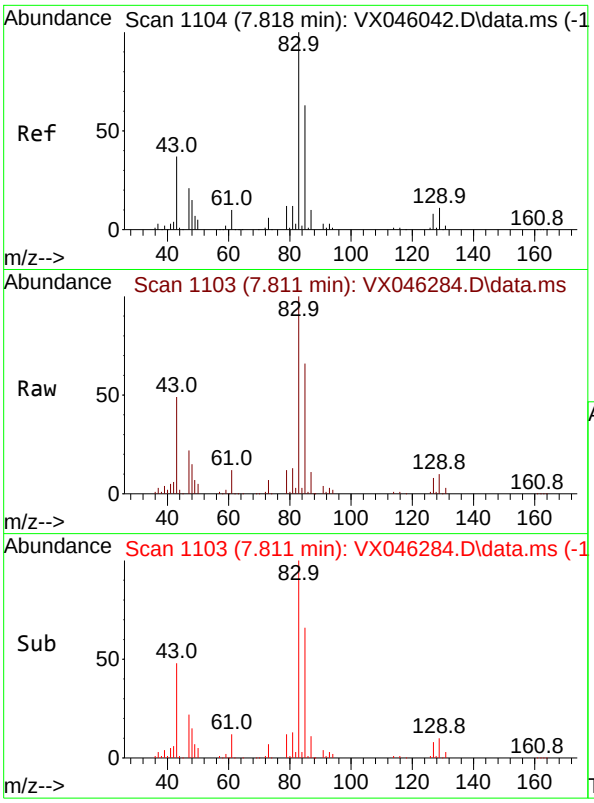



#46
Dibromomethane
Concen: 50.531 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 93 Resp: 45422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.0 | 65.6 | 98.4 |
| 174 | 83.8 | 68.2 | 102.2 |

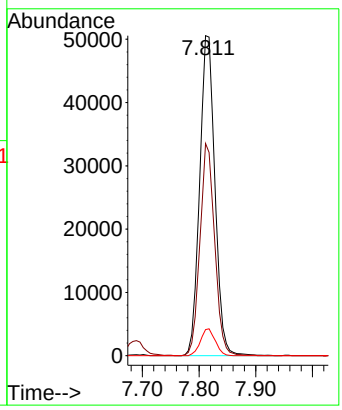





#47
Bromodichloromethane
Concen: 53.478 ug/l
RT: 7.811 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 83 Resp: 9467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.3 | 50.5 | 75.7 |
| 127 | 8.1 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
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VSTDCCC050

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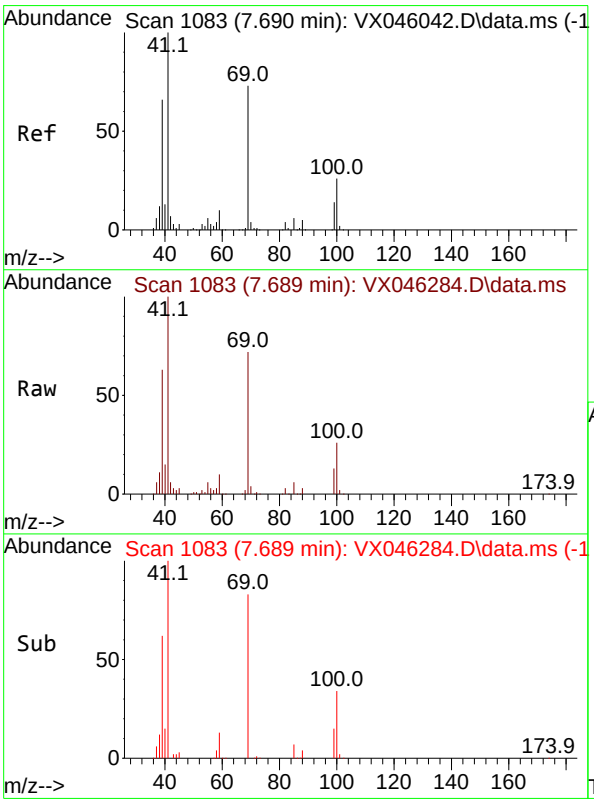
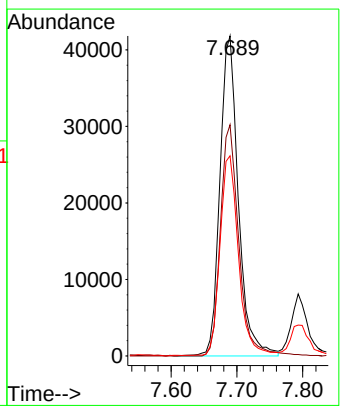
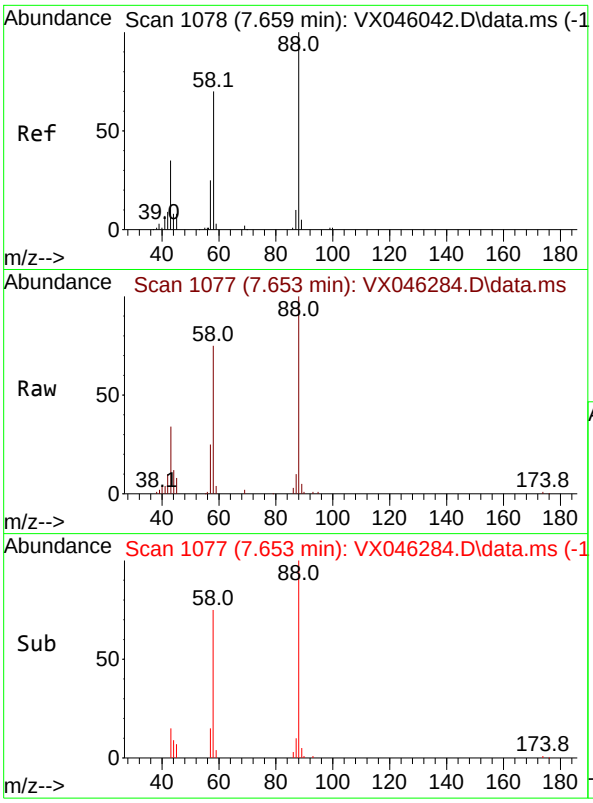



#48
Methyl methacrylate
Concen: 54.212 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 41 Resp: 81658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 72.1 | 58.5 | 87.7 |
| 39 | 62.3 | 51.7 | 77.5 |






#49
1,4-Dioxane
Concen: 977.870 ug/l
RT: 7.653 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 88 Resp: 2796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 42.1 | 33.4 | 50.2 |
| 58 | 76.5 | 58.6 | 88.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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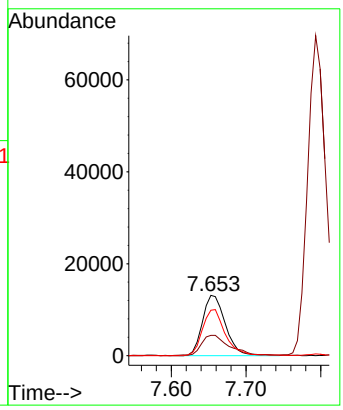
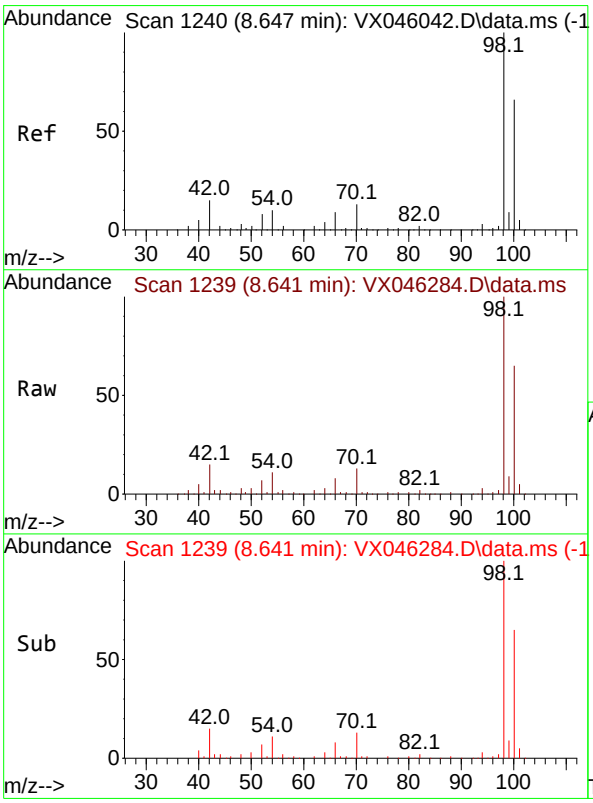
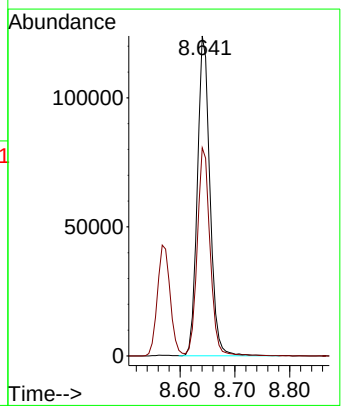


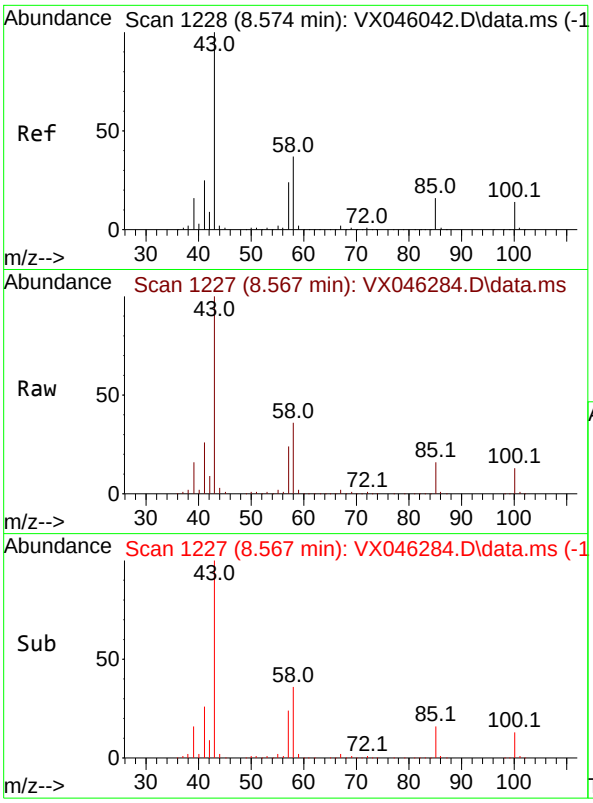




#50
Toluene-d8
Concen: 49.081 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 98 Resp: 197841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.5 | 53.5 | 80.3 |

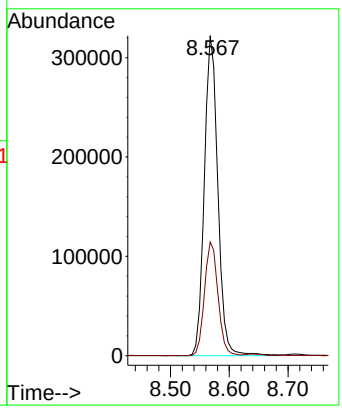





#51
4-Methyl-2-Pentanone
Concen: 262.926 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 43 Resp: 51474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.6 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

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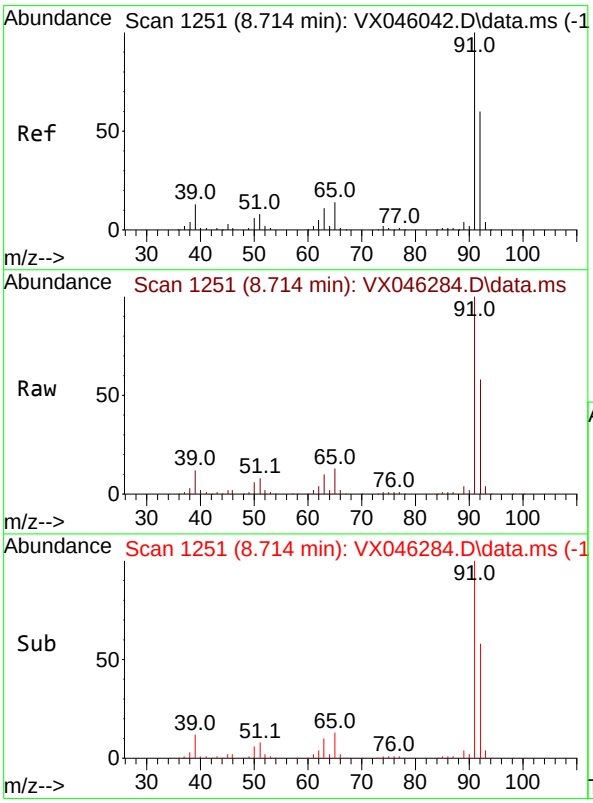
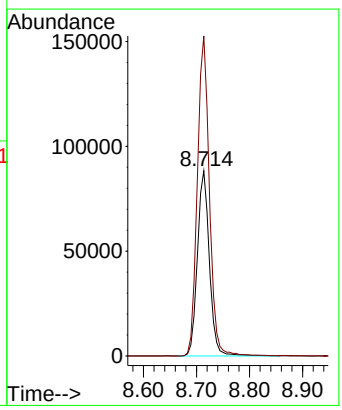
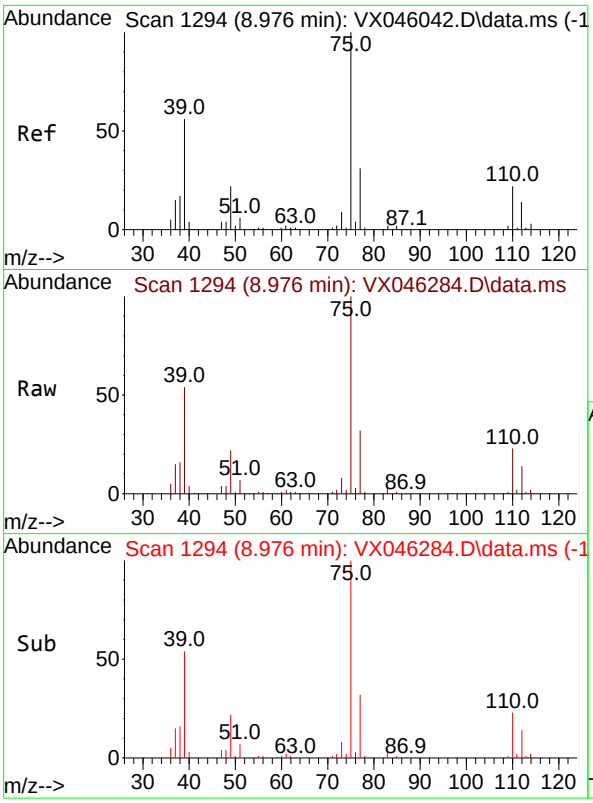



#52
Toluene
Concen: 49.311 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 92 Resp: 138588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.2 | 136.6 | 205.0 |

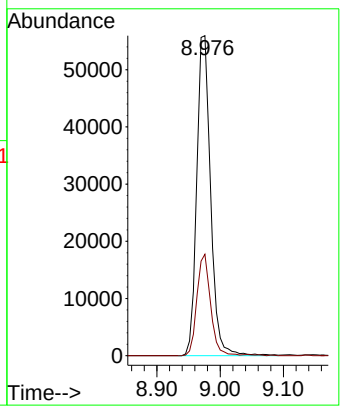





#53
t-1,3-Dichloropropene
Concen: 54.425 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 75 Resp: 8564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.0 | 37.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

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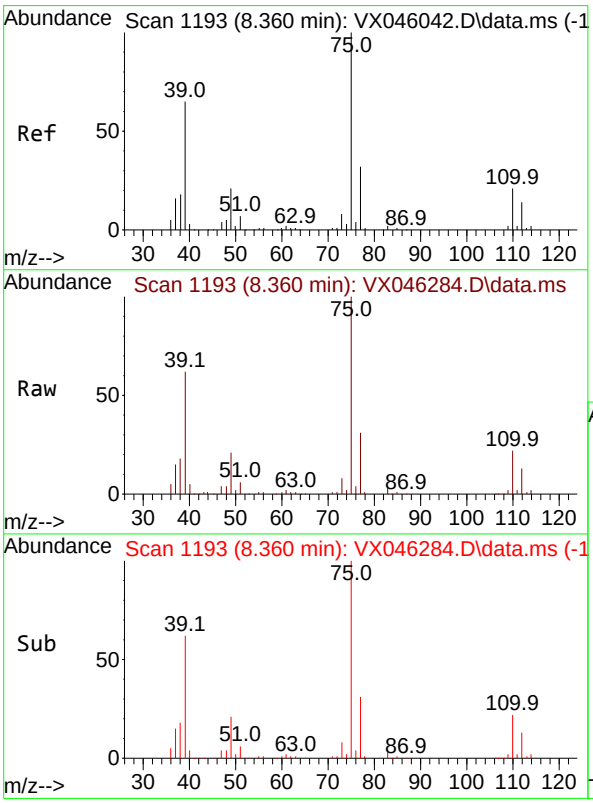
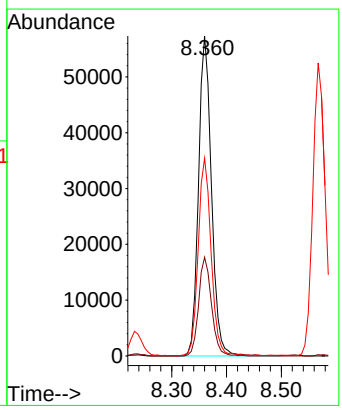
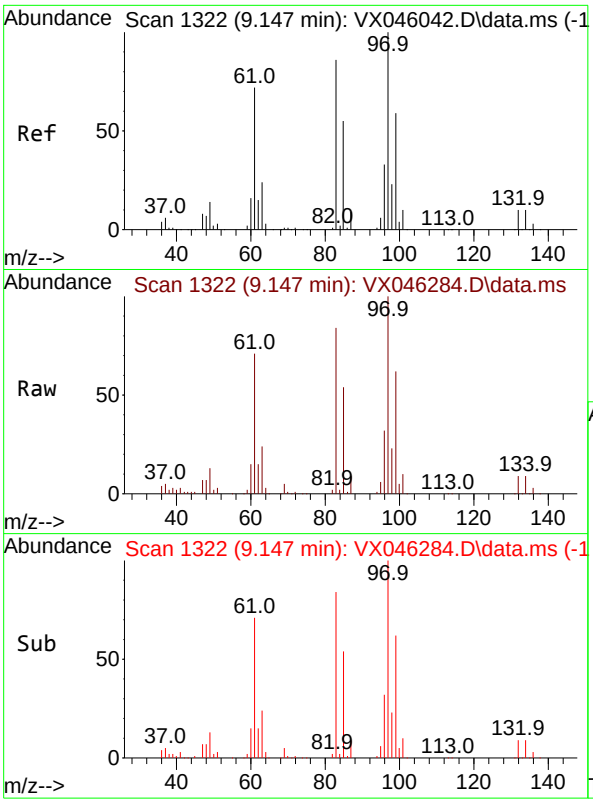



#54
cis-1,3-Dichloropropene
Concen: 54.136 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 75 Resp: 94157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.9 | 25.4 | 38.0 |
| 39 | 61.8 | 52.2 | 78.4 |

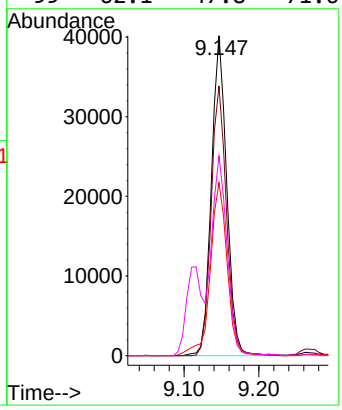





#55
1,1,2-Trichloroethane
Concen: 51.730 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 97 Resp: 5732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.2 | 69.0 | 103.6 |
| 85 | 53.9 | 44.3 | 66.5 |
| 99 | 62.1 | 47.8 | 71.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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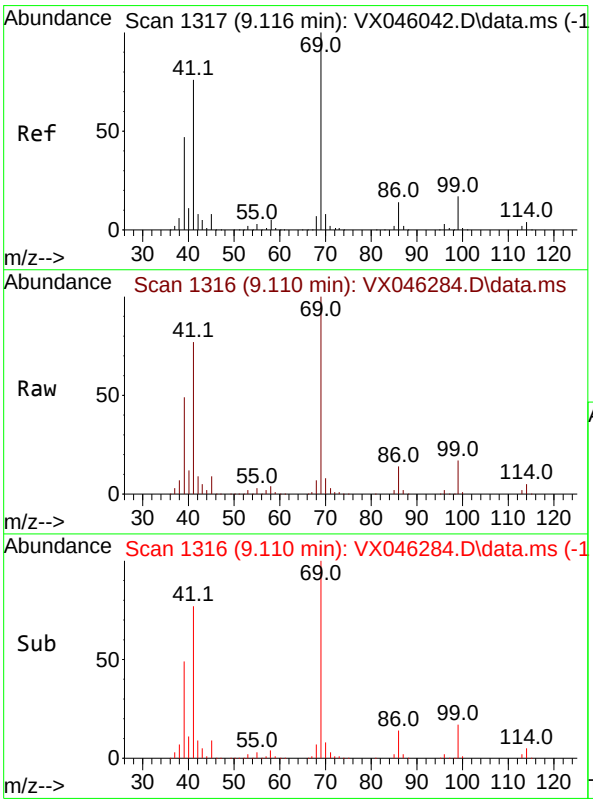
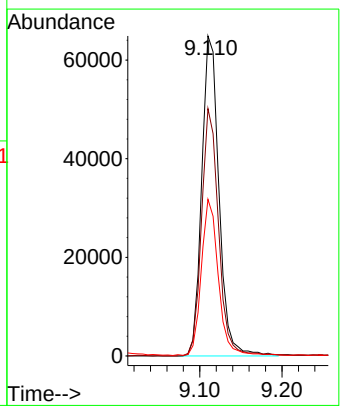
Supervised By :Mahesh Dadoda 05/22/2025

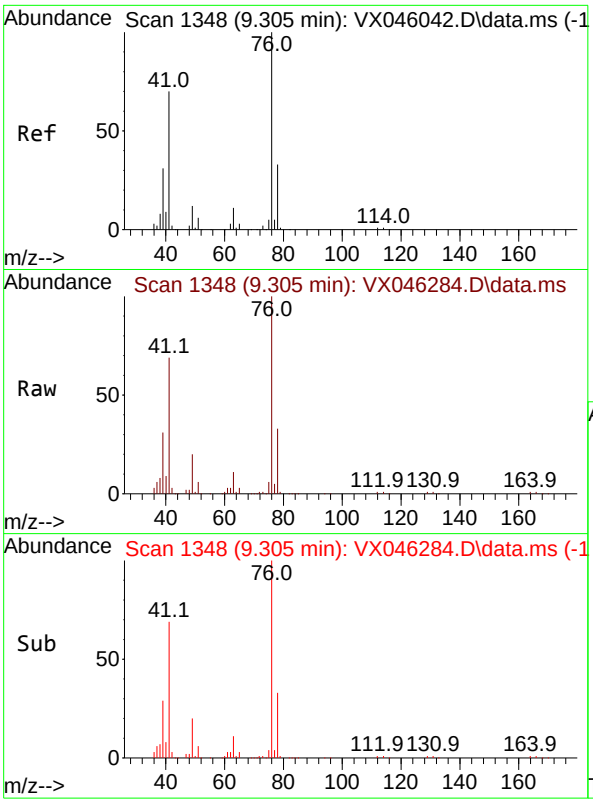



#56
Ethyl methacrylate
Concen: 53.634 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 69 Resp: 94728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 76.5 | 60.8 | 91.2 |
| 39 | 48.1 | 39.0 | 58.6 |

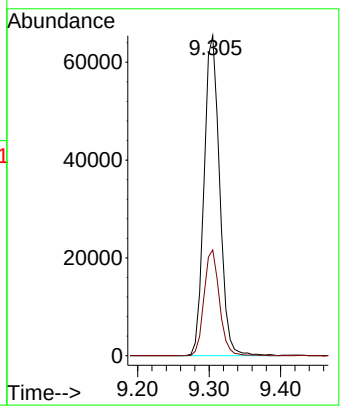





#57
1,3-Dichloropropane
Concen: 49.714 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 76 Resp: 9894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 26.3 | 39.5 |




**Instrument :**
MSVOA_X
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VSTDCCC050

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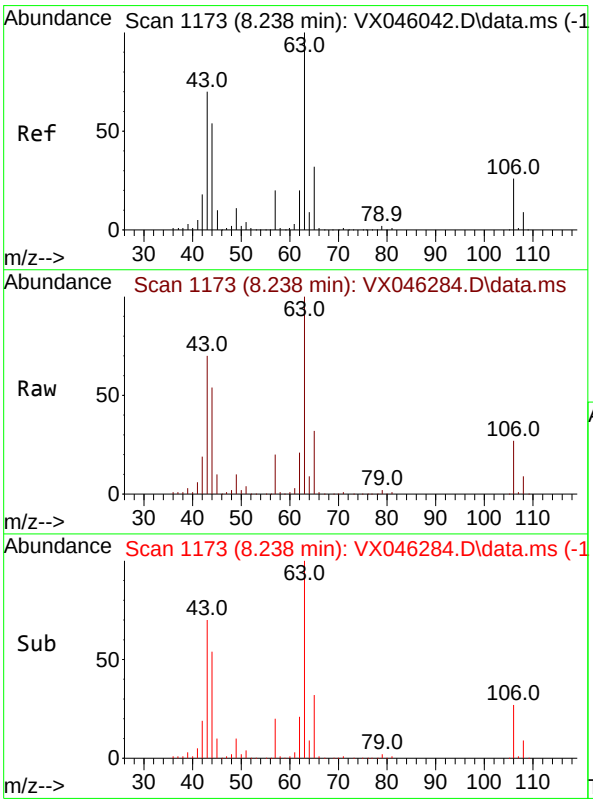
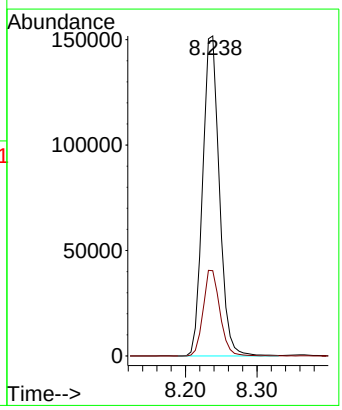
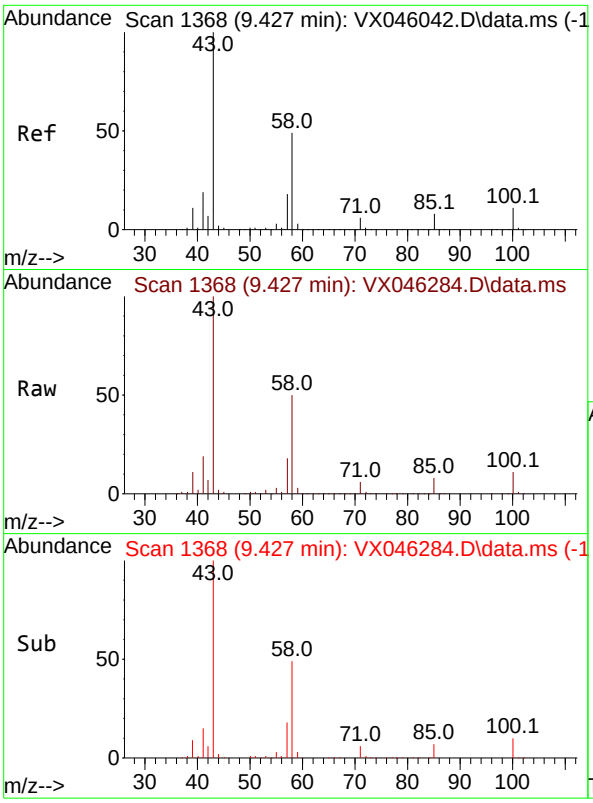



#58
2-Chloroethyl Vinyl ether
Concen: 273.669 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 63 Resp: 246422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.8 | 21.5 | 32.3 |

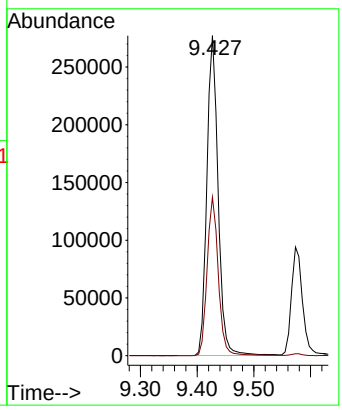





#59
2-Hexanone
Concen: 263.910 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 43 Resp: 38225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.5 | 24.9 | 74.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

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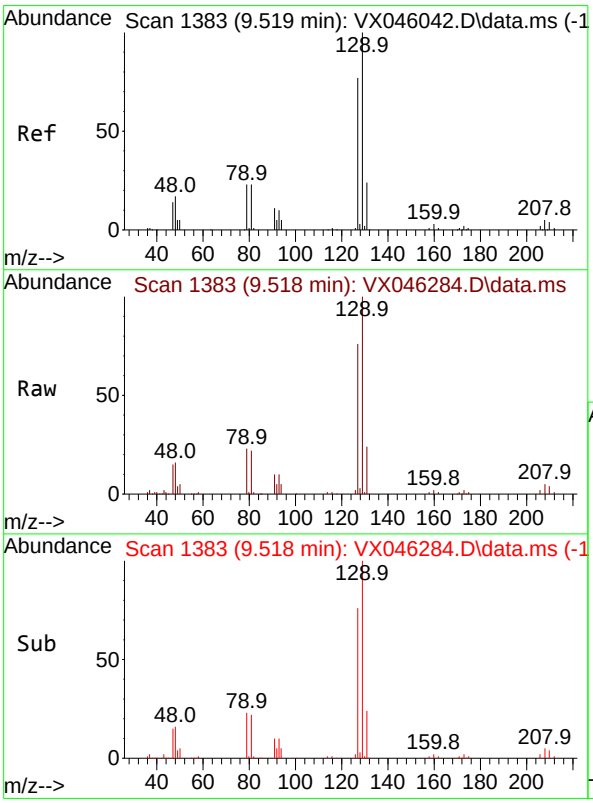
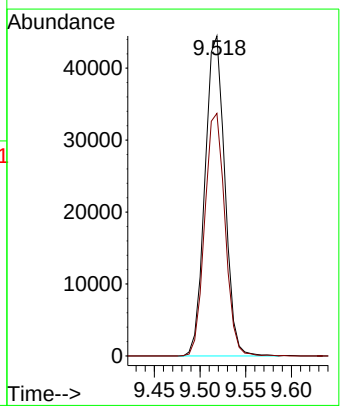
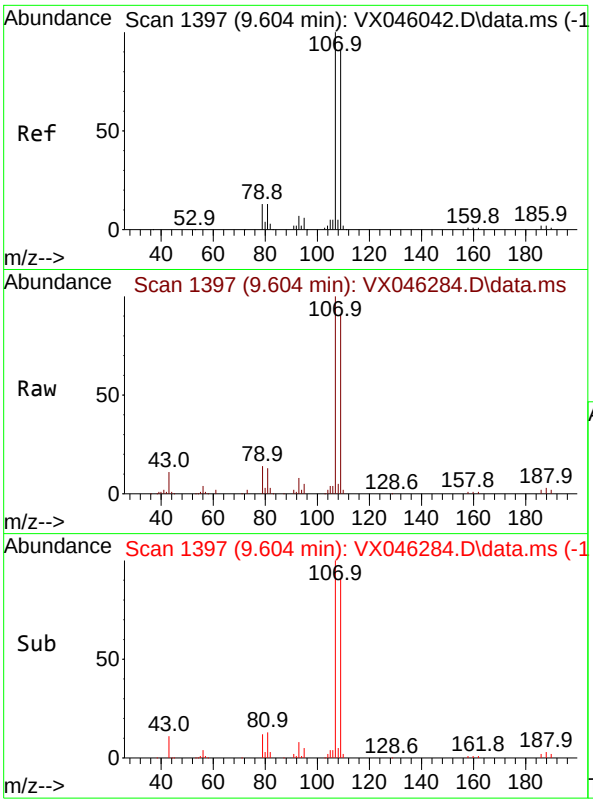



#60
Dibromochloromethane
Concen: 54.971 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:129 Resp: 66902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 39.3 | 117.8 |

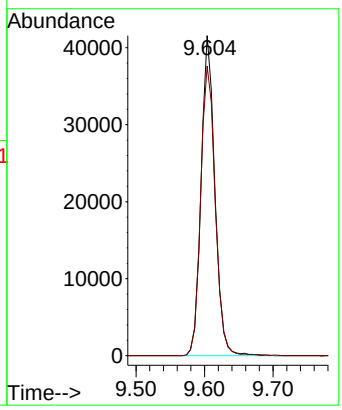





#61
1,2-Dibromoethane
Concen: 50.413 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:107 Resp: 5806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.9 | 73.3 | 109.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

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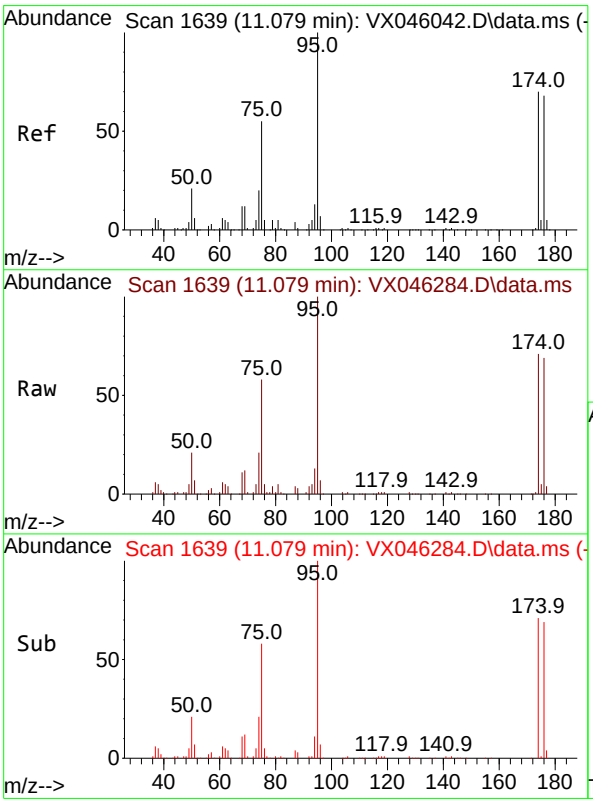
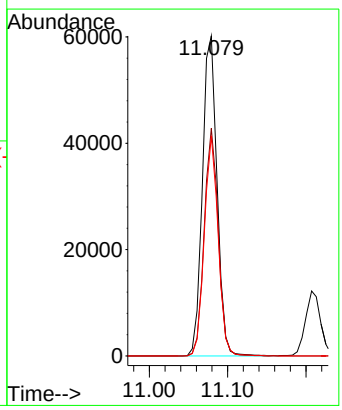
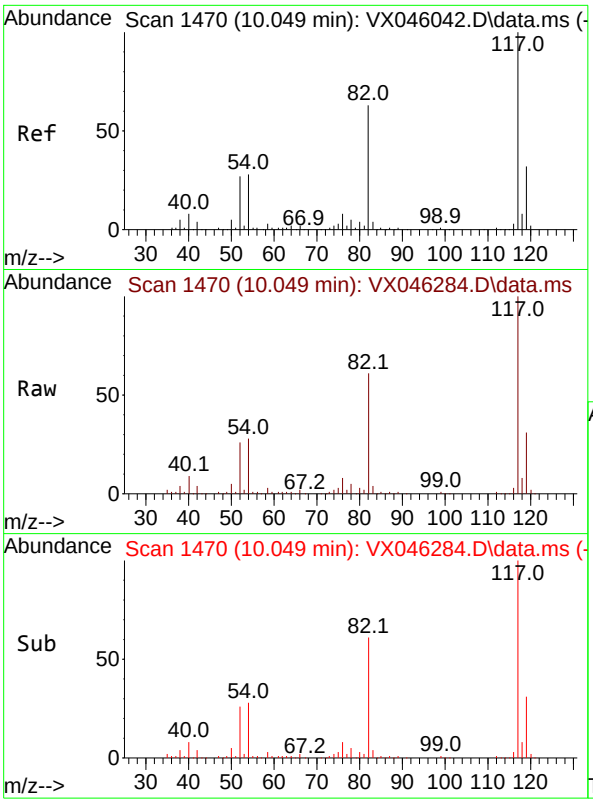



#62
4-Bromofluorobenzene
Concen: 50.363 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 95 Resp: 77871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 68.3 | 0.0 | 135.8 |
| 176 | 65.0 | 0.0 | 131.4 |

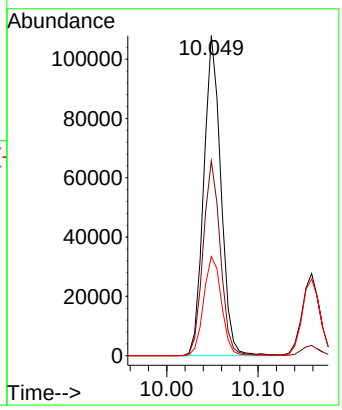





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:117 Resp: 14044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 60.9 | 50.6 | 76.0 |
| 119 | 31.0 | 25.8 | 38.6 |




**Instrument :**
MSVOA_X
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VSTDCCC050

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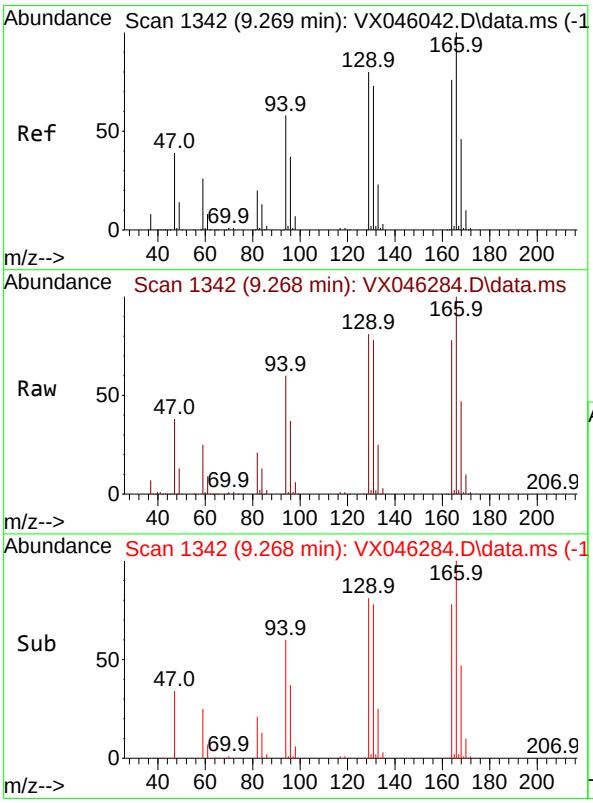
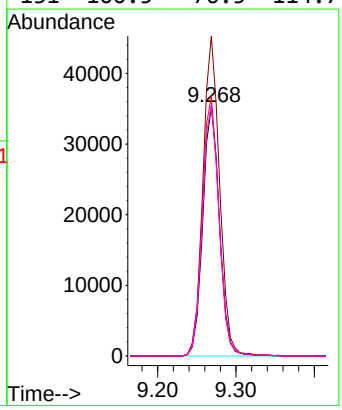
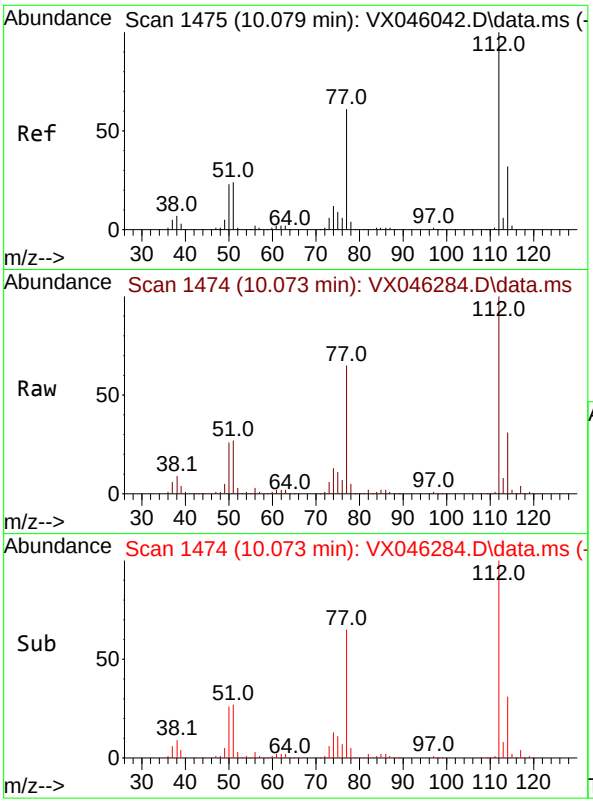



#64
Tetrachloroethene
Concen: 52.359 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:164 Resp: 52030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.4 | 105.0 | 157.6 |
| 129 | 104.1 | 83.5 | 125.3 |
| 131 | 100.5 | 76.5 | 114.7 |

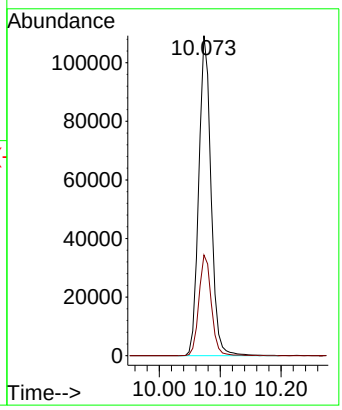





#65
Chlorobenzene
Concen: 49.440 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:112 Resp: 151979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.4 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
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VSTDCCC050

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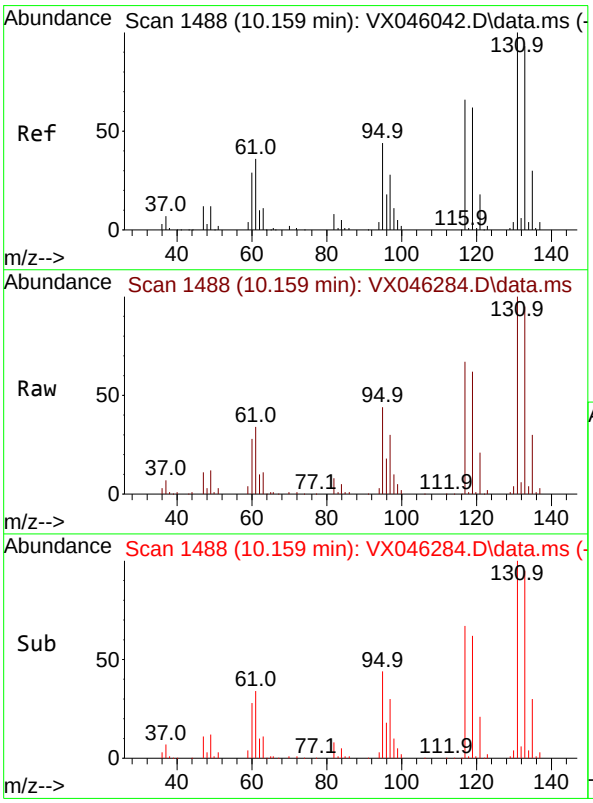
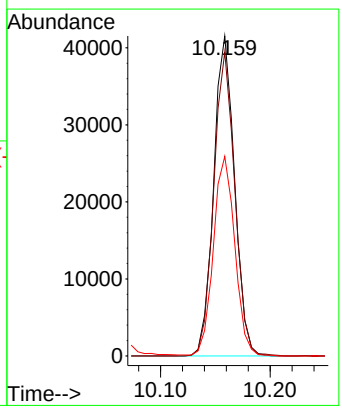
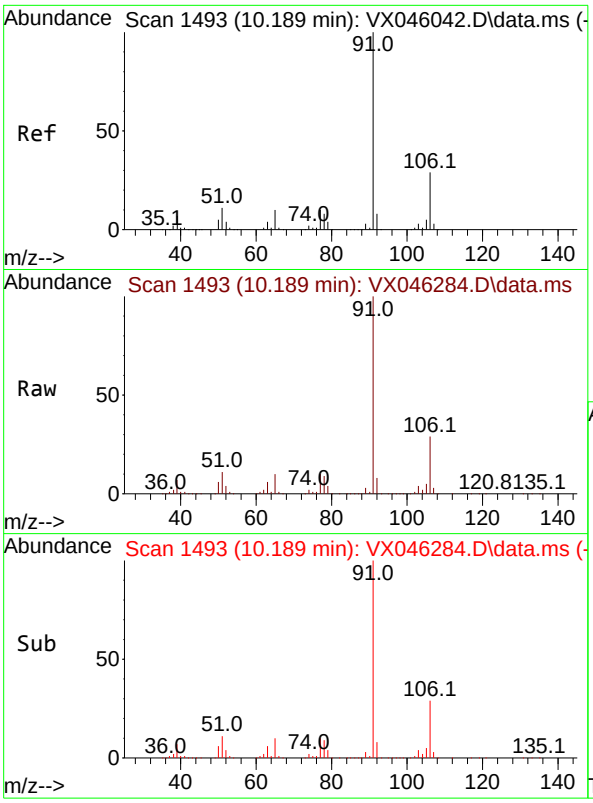



#66
1,1,1,2-Tetrachloroethane
Concen: 52.376 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:131 Resp: 54978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.6 | 47.3 | 141.9 |
| 119 | 64.1 | 31.6 | 95.0 |

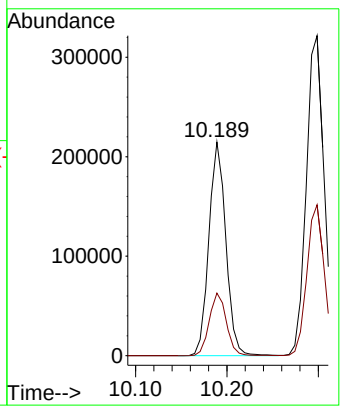





#67
Ethyl Benzene
Concen: 51.011 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 91 Resp: 27640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.3 | 23.4 | 35.2 |




**Instrument :**
MSVOA_X
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VSTDCCC050

**Manual Integrations**
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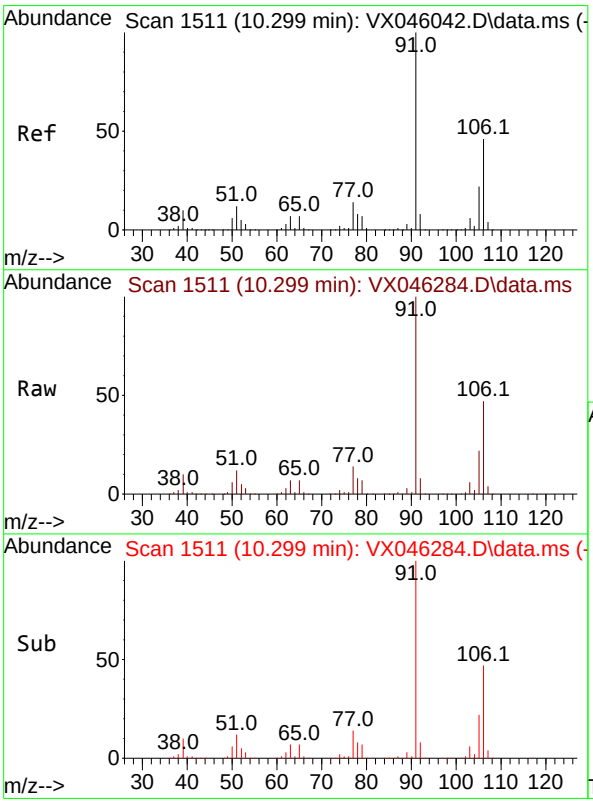
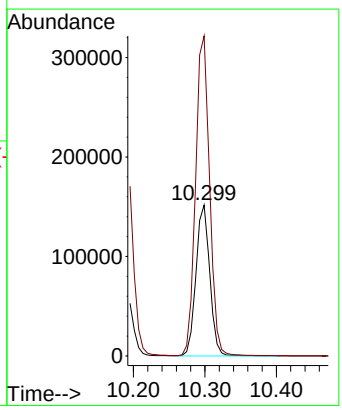
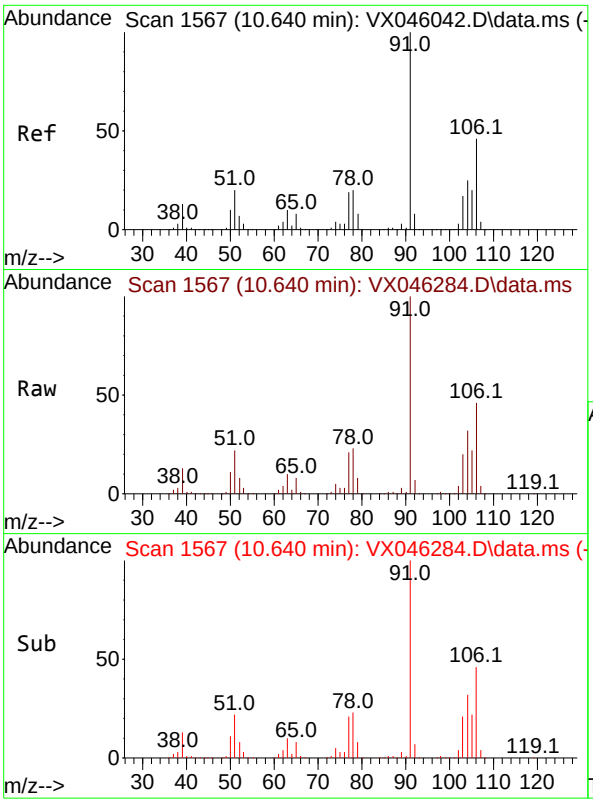



#68
m/p-Xylenes
Concen: 102.233 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:106 Resp: 202607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.6 | 171.2 | 256.8 |

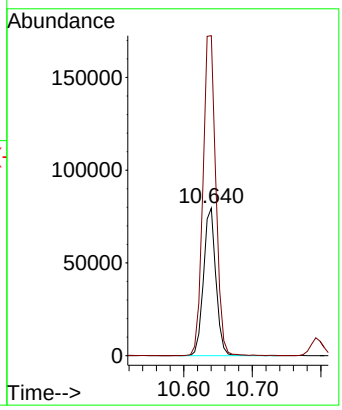





#69
o-Xylene
Concen: 51.746 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:106 Resp: 9997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 226.4 | 112.7 | 338.1 |




**Instrument :**
MSVOA_X
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VSTDCCC050

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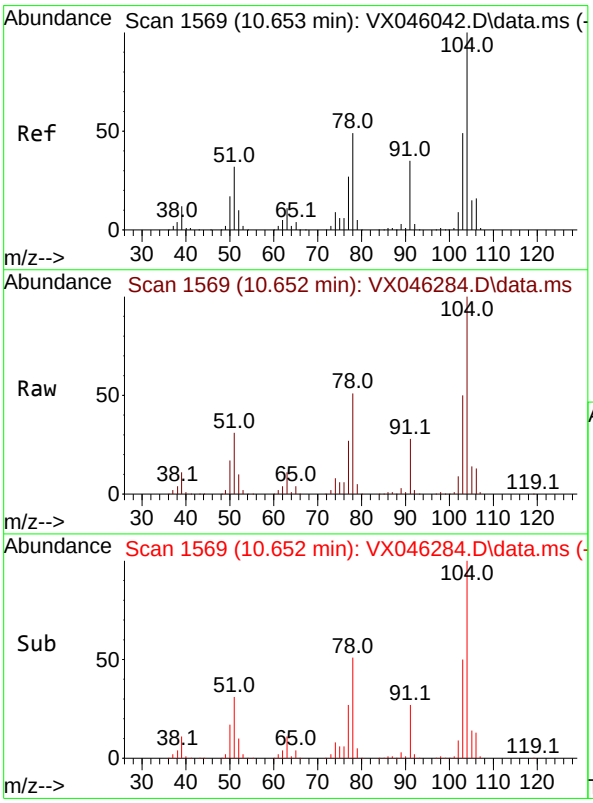
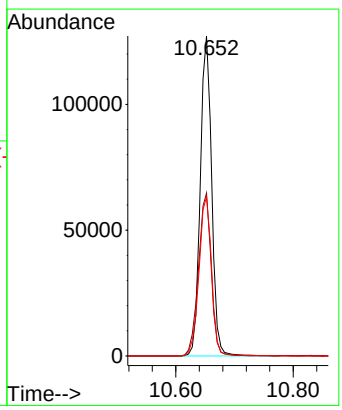
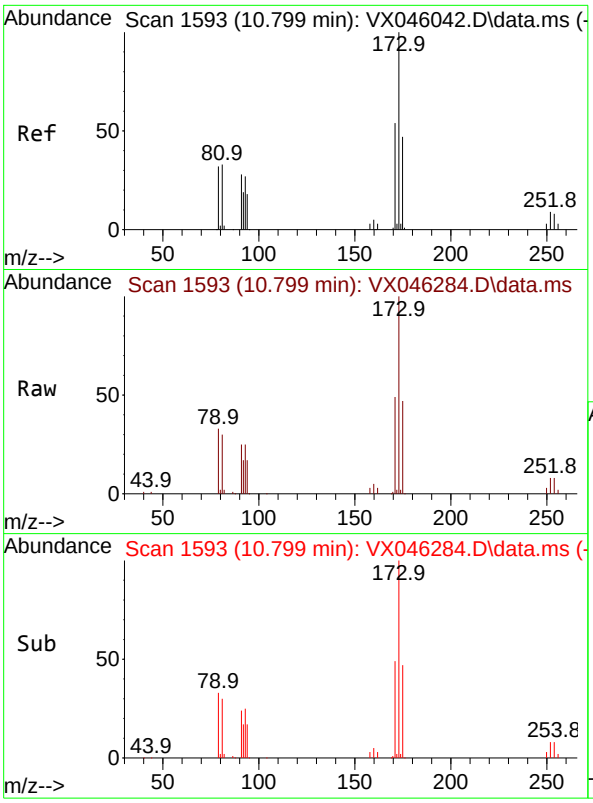



#70
Styrene
Concen: 53.925 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:104 Resp: 170672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 56.9 | 45.7 | 68.5 |
| 103 | 55.0 | 43.7 | 65.5 |

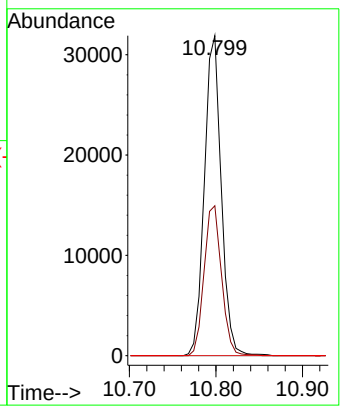





#71
Bromoform
Concen: 54.740 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:173 Resp: 4313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 23.4 | 70.0 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

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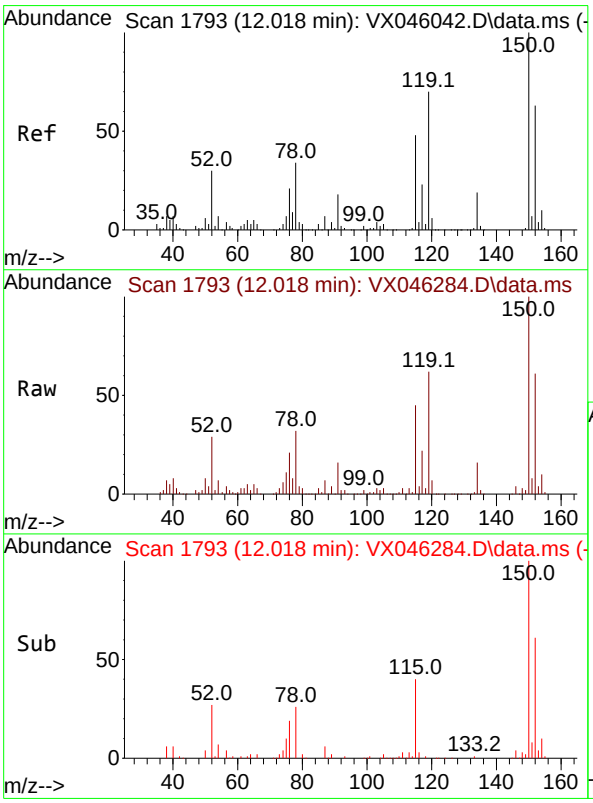
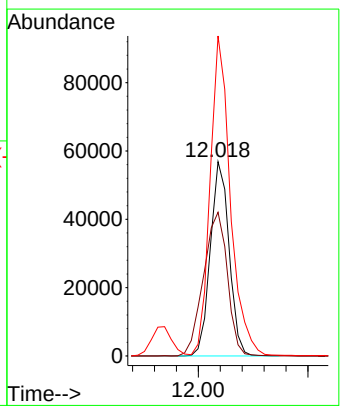
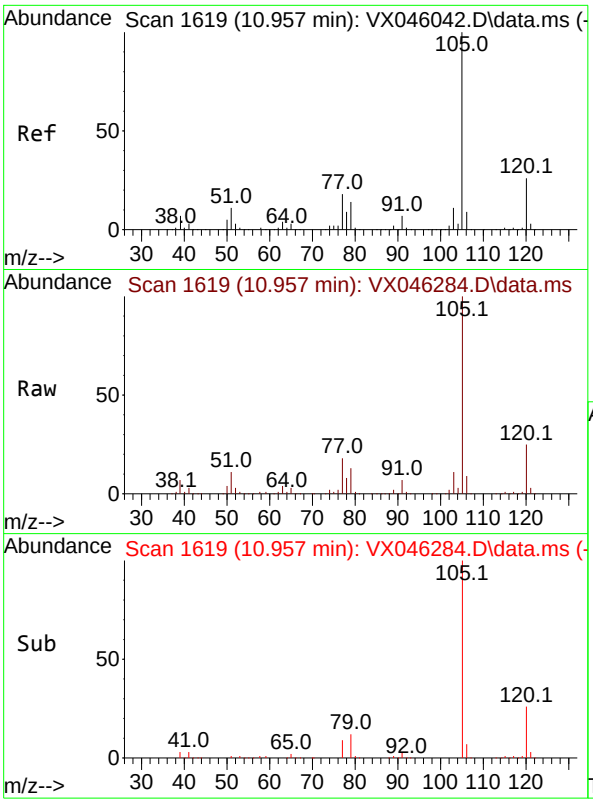



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:152 Resp: 67683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 94.2 | 46.9 | 140.7 |
| 150 | 177.1 | 0.0 | 351.0 |

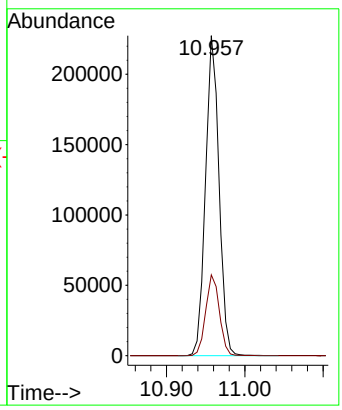





#73
Isopropylbenzene
Concen: 51.463 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:105 Resp: 27117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.6 | 12.8 | 38.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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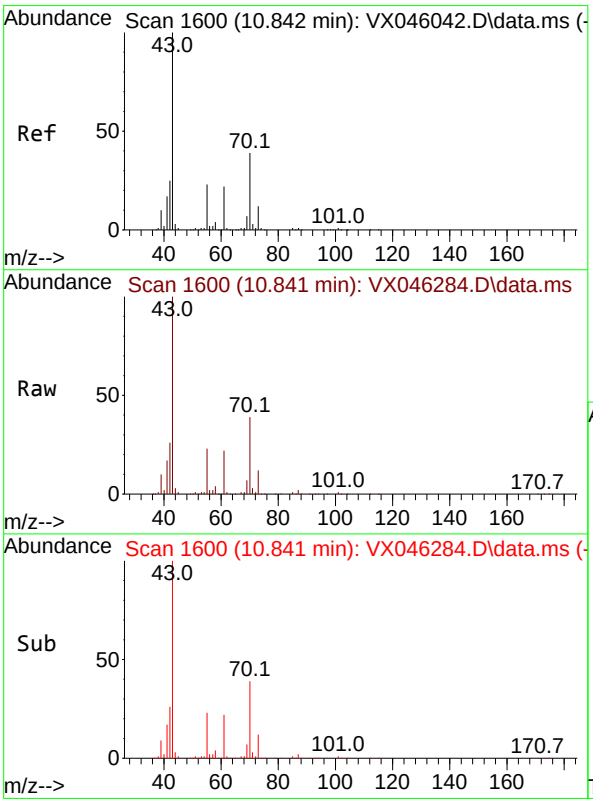
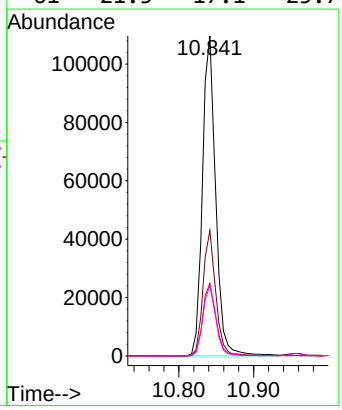
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

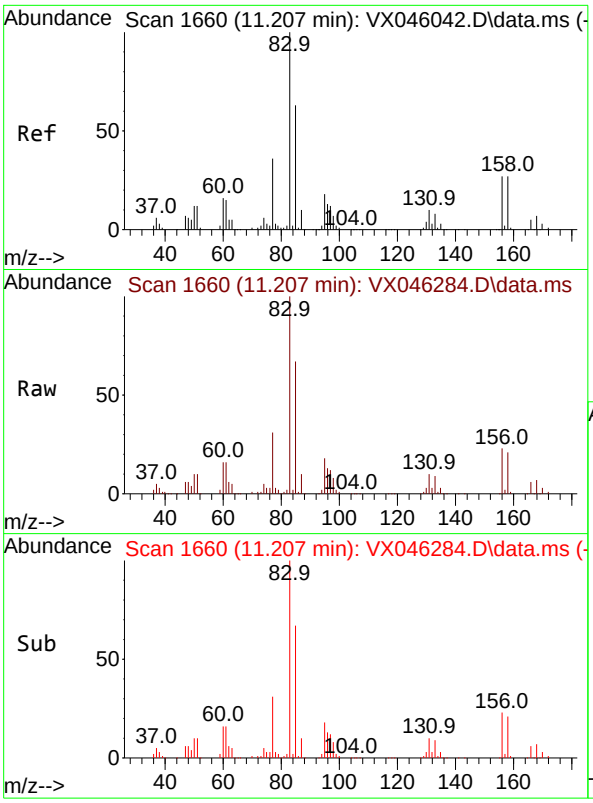



#74
N-amyl acetate
Concen: 51.743 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 43 Resp: 134729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 37.7 | 30.9 | 46.3 |
| 55 | 23.3 | 18.7 | 28.1 |
| 61 | 21.5 | 17.1 | 25.7 |

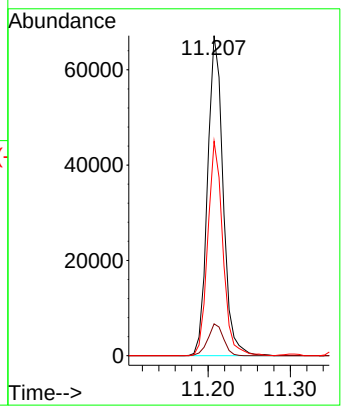





#75
1,1,2,2-Tetrachloroethane
Concen: 47.625 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 83 Resp: 8794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.0 | 5.0 | 14.9 |
| 85 | 64.9 | 31.9 | 95.7 |




**Instrument :**
MSVOA_X
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VSTDCCC050

**Manual Integrations**
**APPROVED**

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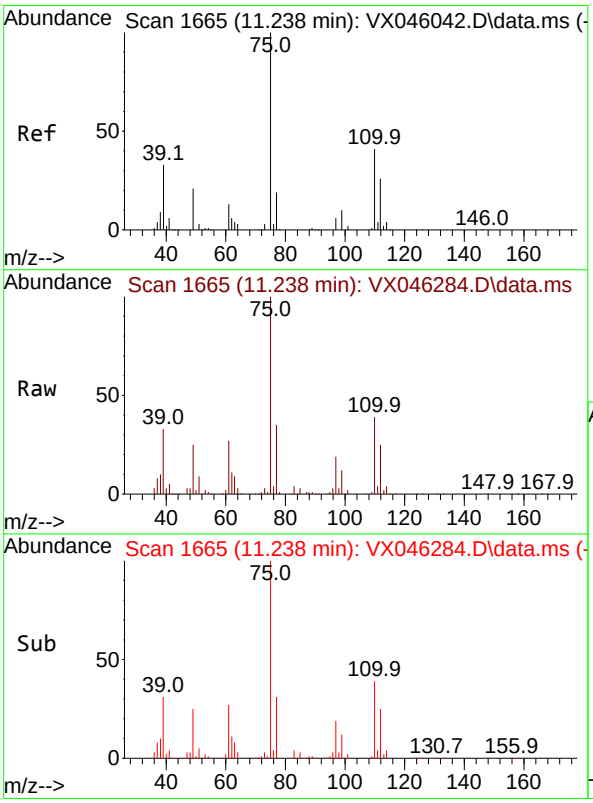
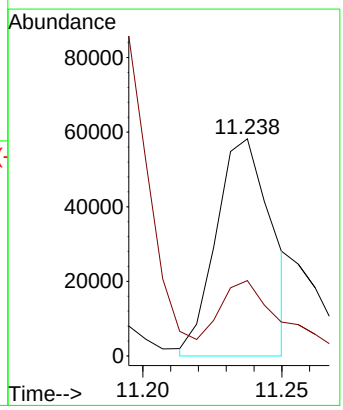
Supervised By :Mahesh Dadoda 05/22/2025

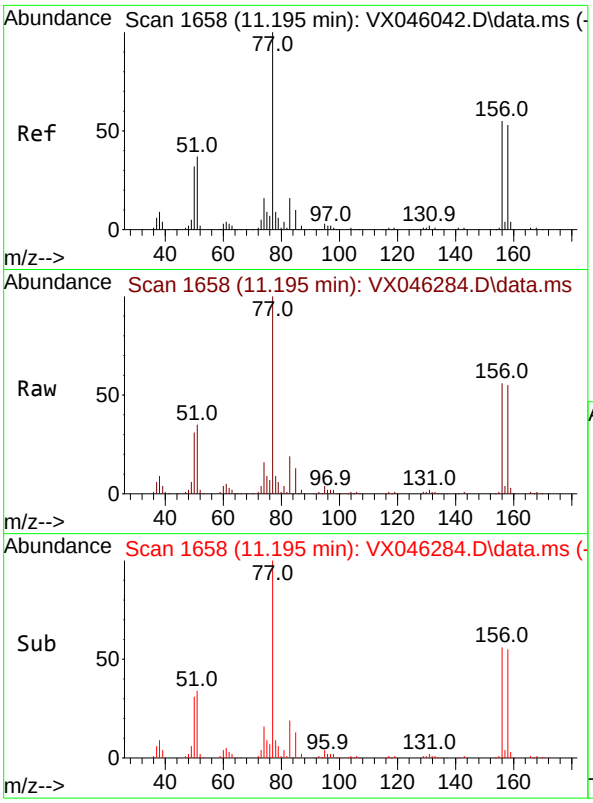



#76
1,2,3-Trichloropropane
Concen: 49.455 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 75 Resp: 80571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 40.4 | 20.5 | 61.5 |

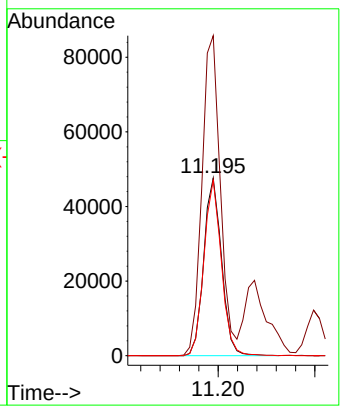





#77
Bromobenzene
Concen: 49.799 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:156 Resp: 6092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 186.6 | 92.8 | 278.3 |
| 158 | 97.2 | 48.8 | 146.3 |




**Instrument :**
MSVOA_X
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VSTDCCC050

**Manual Integrations**
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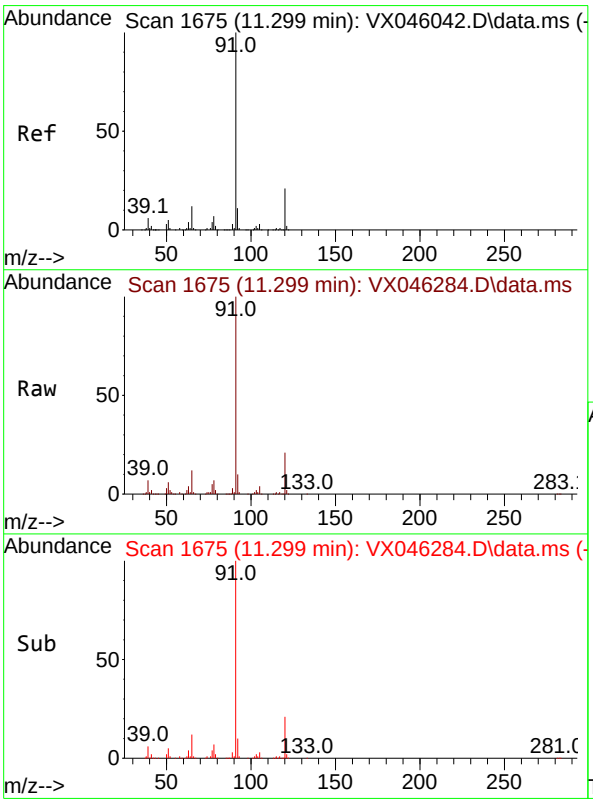
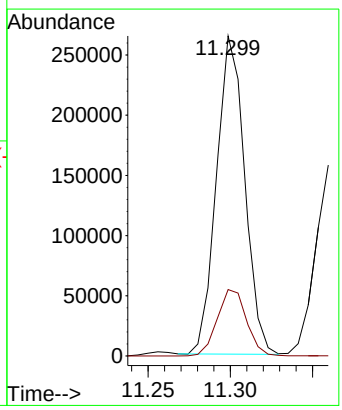
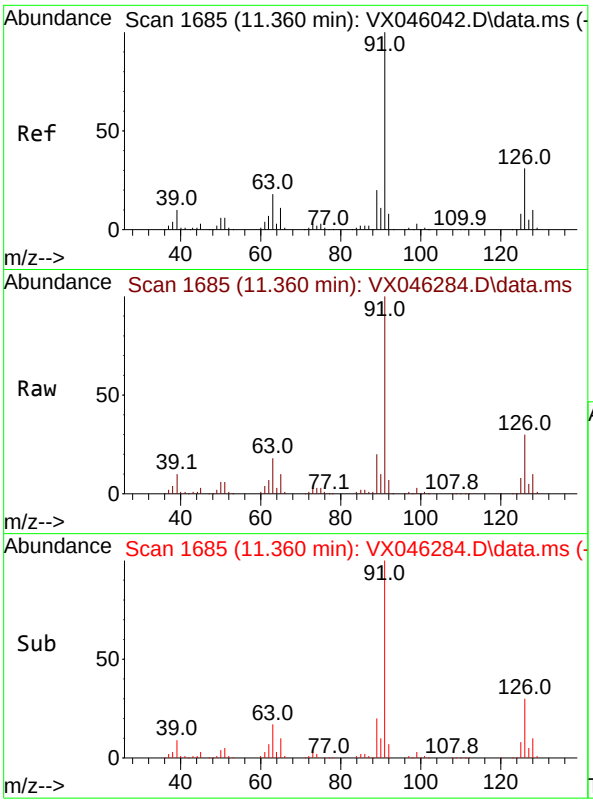



#78
n-propylbenzene
Concen: 51.595 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 91 Resp: 316117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.7 | 10.8 | 32.4 |

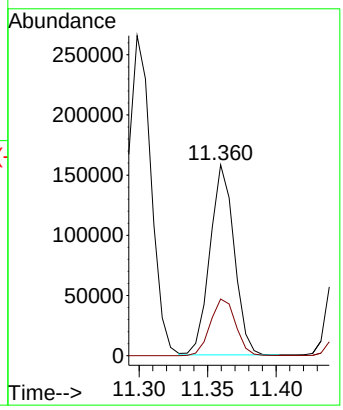





#79
2-Chlorotoluene
Concen: 49.086 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 91 Resp: 19398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.4 | 15.6 | 46.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

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Reviewed By :John Carlone 05/22/2025
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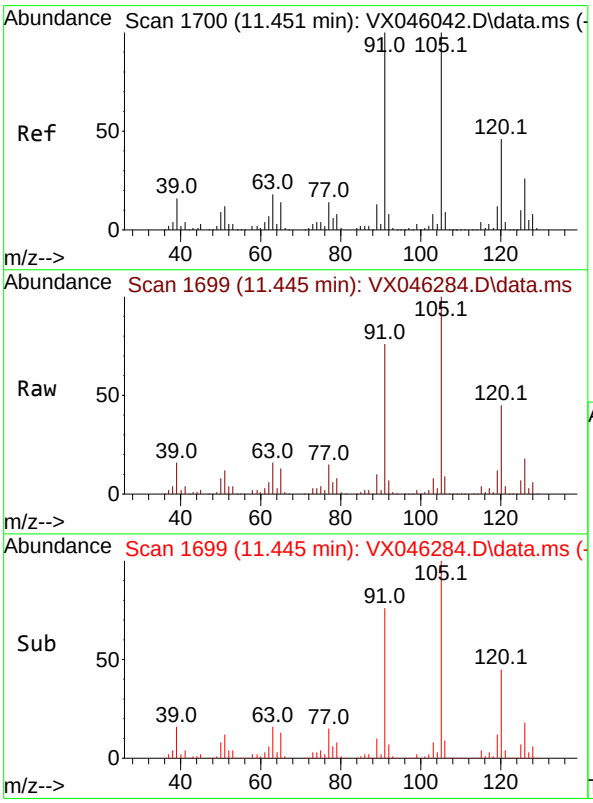
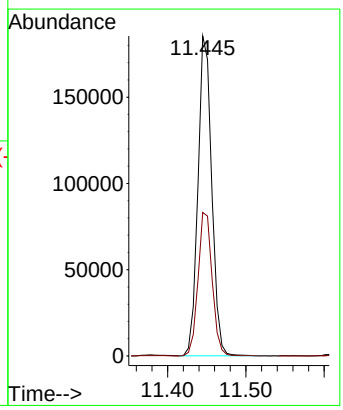
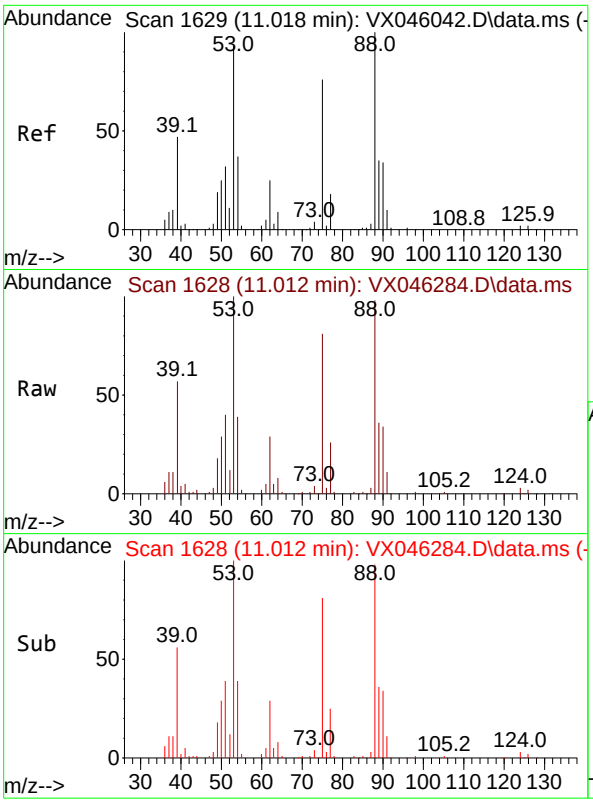



#80
1,3,5-Trimethylbenzene
Concen: 51.421 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:105 Resp: 226364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.3 | 23.1 | 69.2 |






#81
trans-1,4-Dichloro-2-butene
Concen: 53.175 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 75 Resp: 2660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 122.6 | 100.5 | 150.7 |
| 89 | 46.7 | 37.0 | 55.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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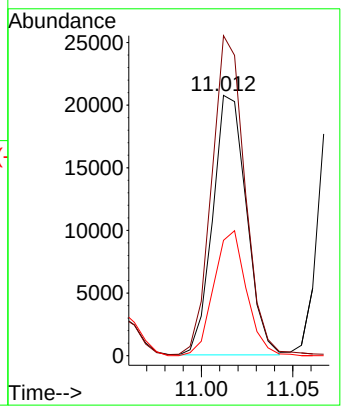
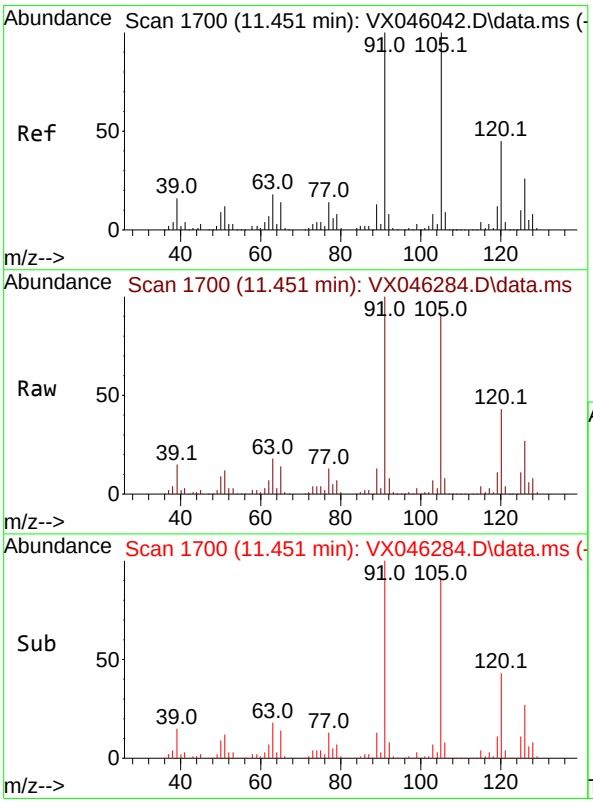
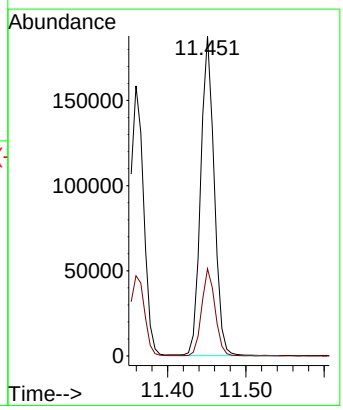


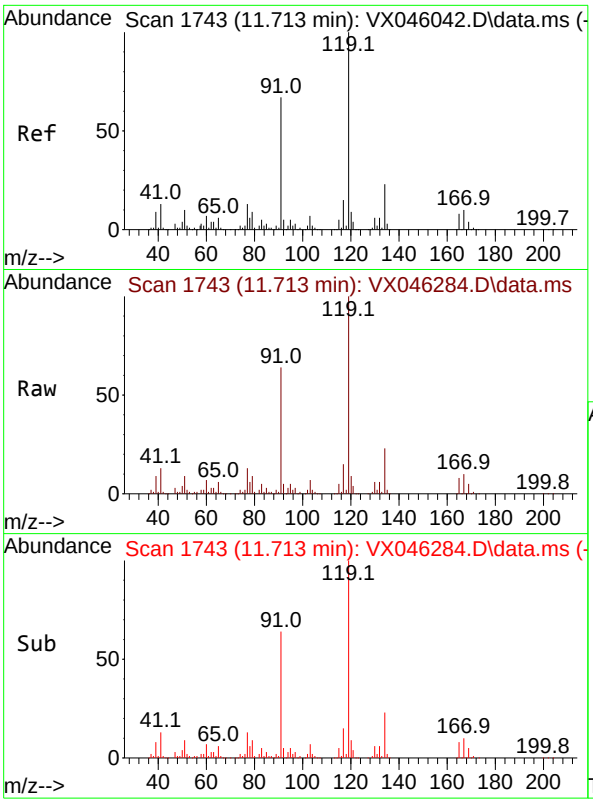




#82
4-Chlorotoluene
Concen: 51.369 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 91 Resp: 225123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 26.9 | 13.3 | 39.8 |

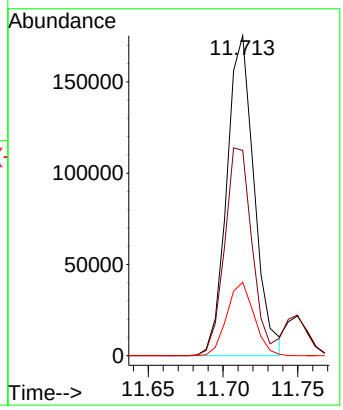





#83
tert-Butylbenzene
Concen: 50.408 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:119 Resp: 22352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.9 | 32.9 | 98.7 |
| 134 | 22.7 | 11.4 | 34.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

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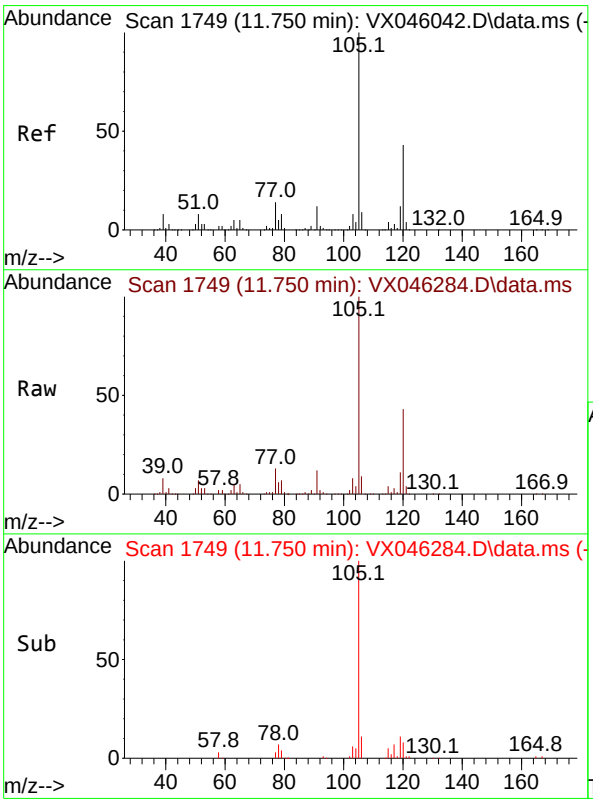
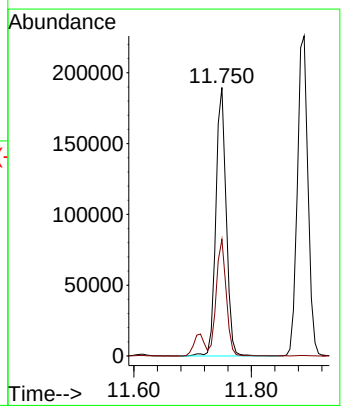
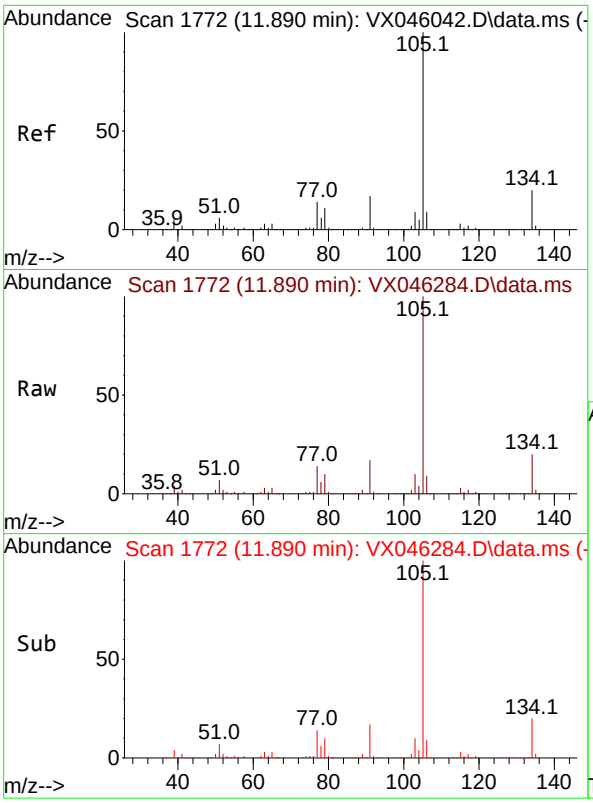



#84
1,2,4-Trimethylbenzene
Concen: 51.885 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:105 Resp: 231302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.1 | 21.2 | 63.6 |

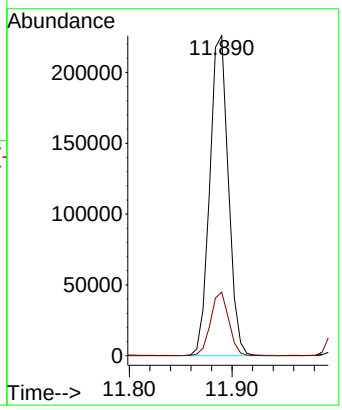





#85
sec-Butylbenzene
Concen: 52.129 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:105 Resp: 28381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.7 | 29.1 |




**Instrument :**
MSVOA_X
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VSTDCCC050

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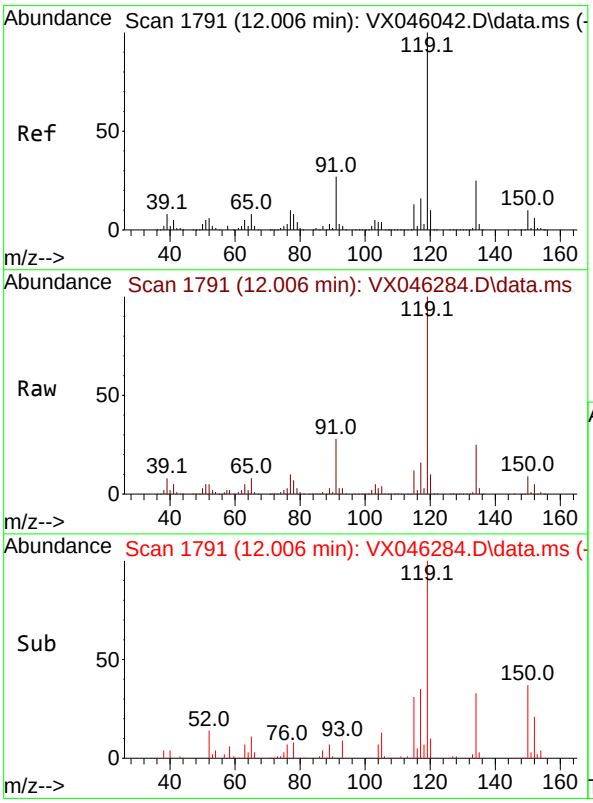
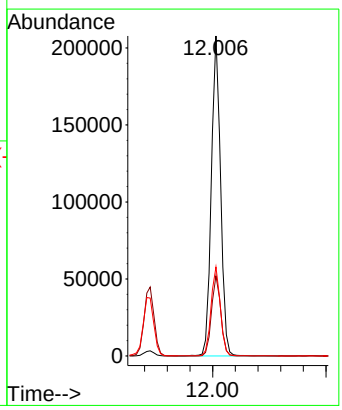
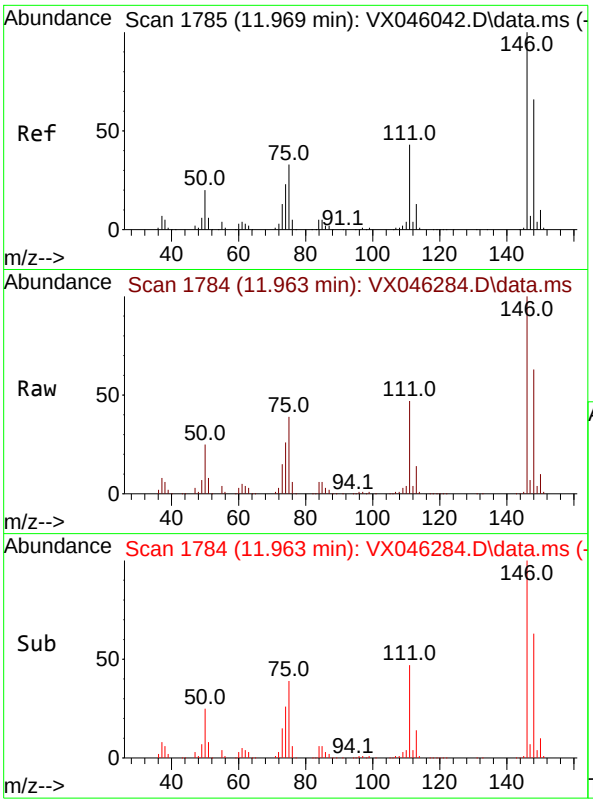



#86
p-Isopropyltoluene
Concen: 52.222 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:119 Resp: 234688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.1 | 12.5 | 37.5 |
| 91 | 27.8 | 13.8 | 41.4 |

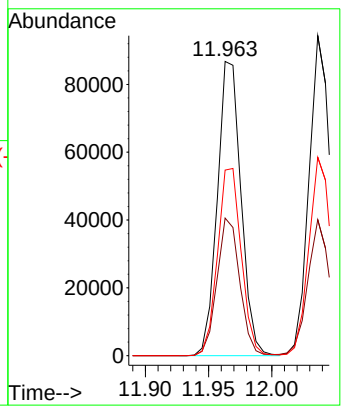





#87
1,3-Dichlorobenzene
Concen: 50.537 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:146 Resp: 11283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.1 | 22.1 | 66.3 |
| 148 | 63.8 | 32.1 | 96.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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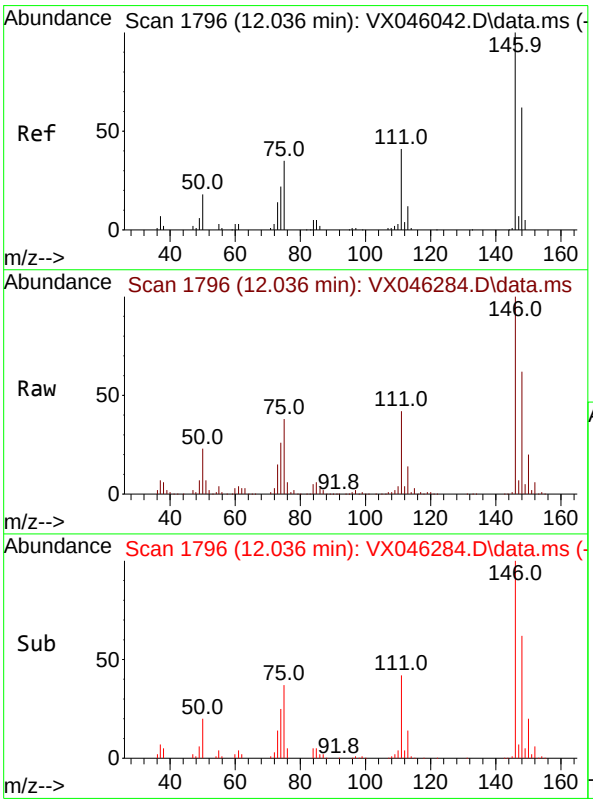
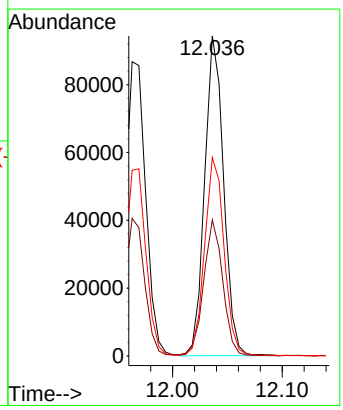
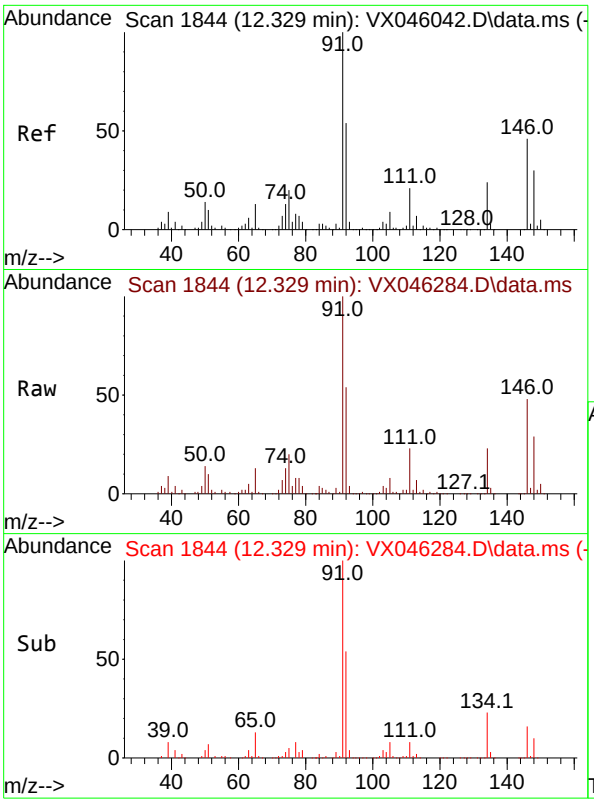



#88
1,4-Dichlorobenzene
Concen: 49.713 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:146 Resp: 113352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.1 | 21.3 | 63.9 |
| 148 | 63.8 | 31.9 | 95.5 |

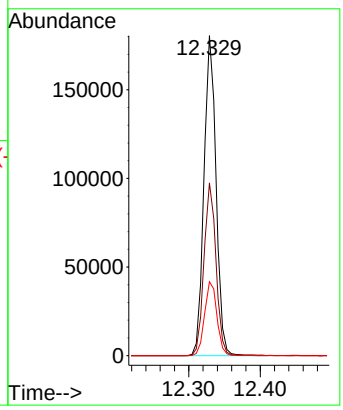





#89
n-Butylbenzene
Concen: 53.818 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 91 Resp: 21215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.7 | 26.9 | 80.7 |
| 134 | 23.7 | 11.8 | 35.3 |




**Instrument :**
MSVOA_X
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VSTDCCC050

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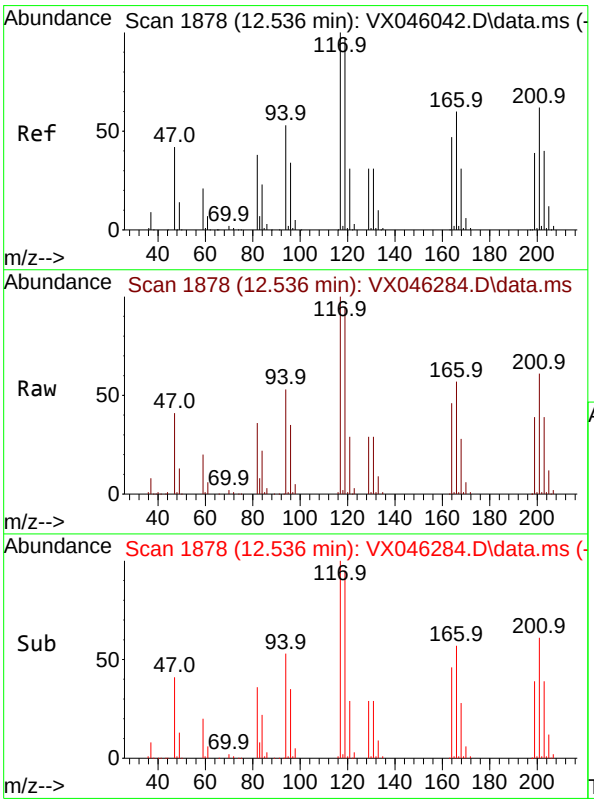
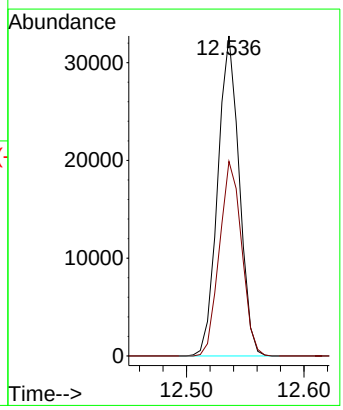
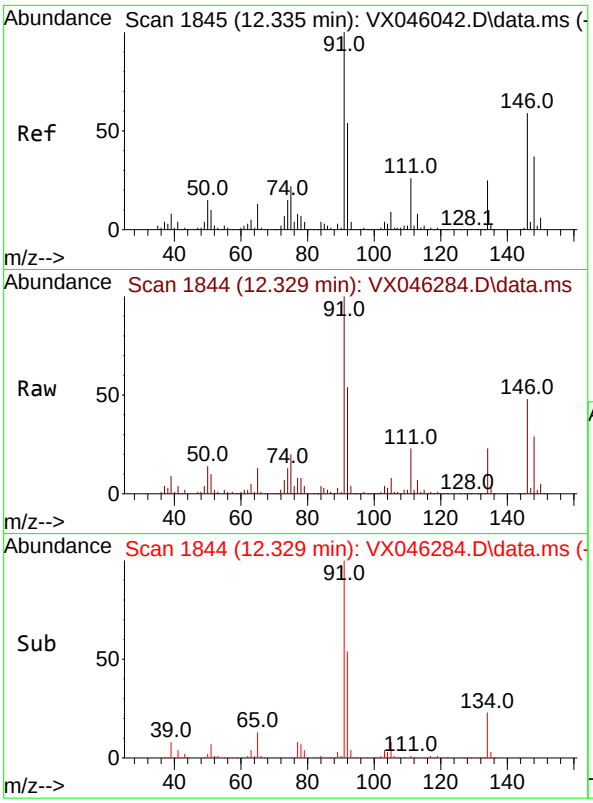



#90
Hexachloroethane
Concen: 52.527 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:117 Resp: 41588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.0 | 31.6 | 94.7 |

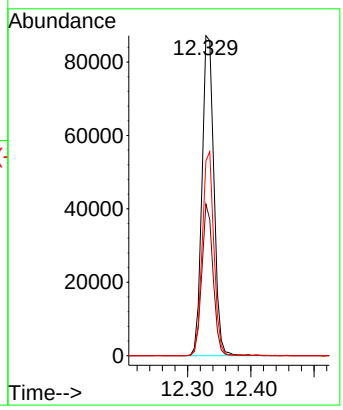





#91
1,2-Dichlorobenzene
Concen: 51.087 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:146 Resp: 11445

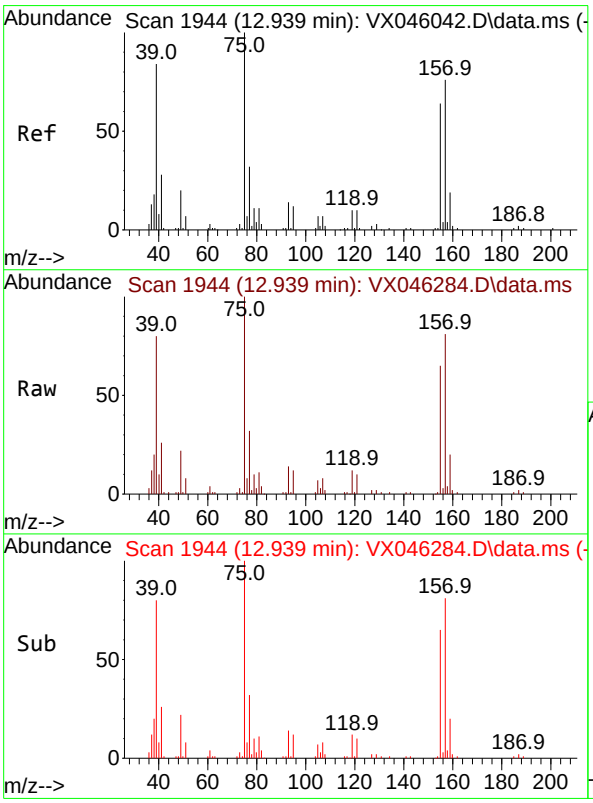
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.9 | 22.4 | 67.3 |
| 148 | 62.2 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

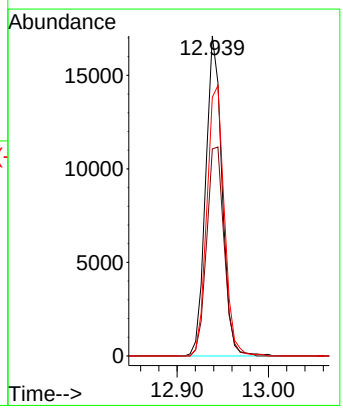
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

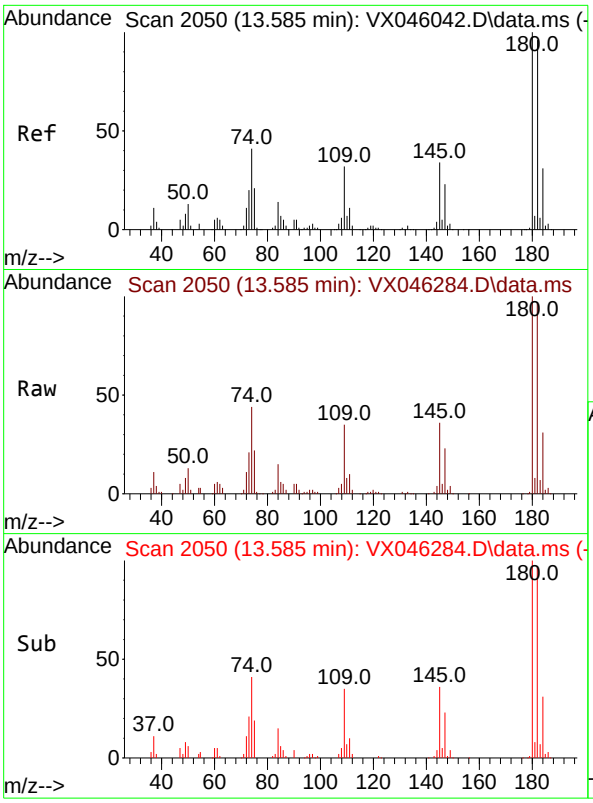



#92
1,2-Dibromo-3-Chloropropane
Concen: 52.001 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion: 75 Resp: 21272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 69.5 | 34.9 | 104.8 |
| 157 | 89.3 | 43.8 | 131.4 |

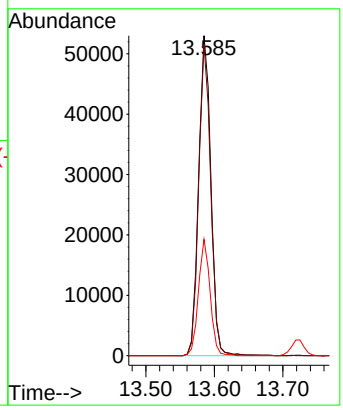





#93
1,2,4-Trichlorobenzene
Concen: 51.375 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:180 Resp: 6611

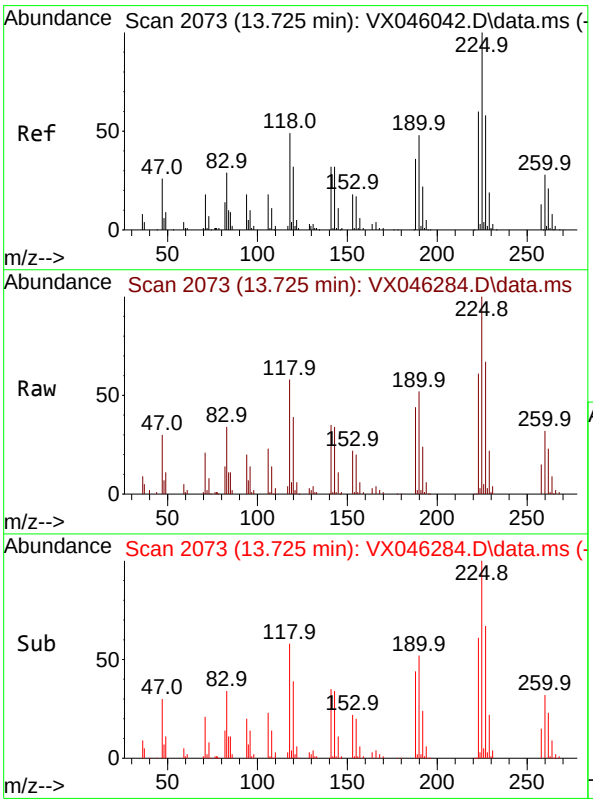
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 47.9 | 143.8 |
| 145 | 34.6 | 17.1 | 51.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

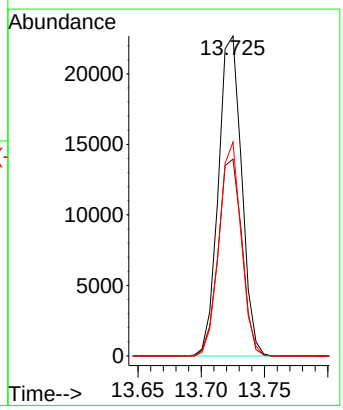
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

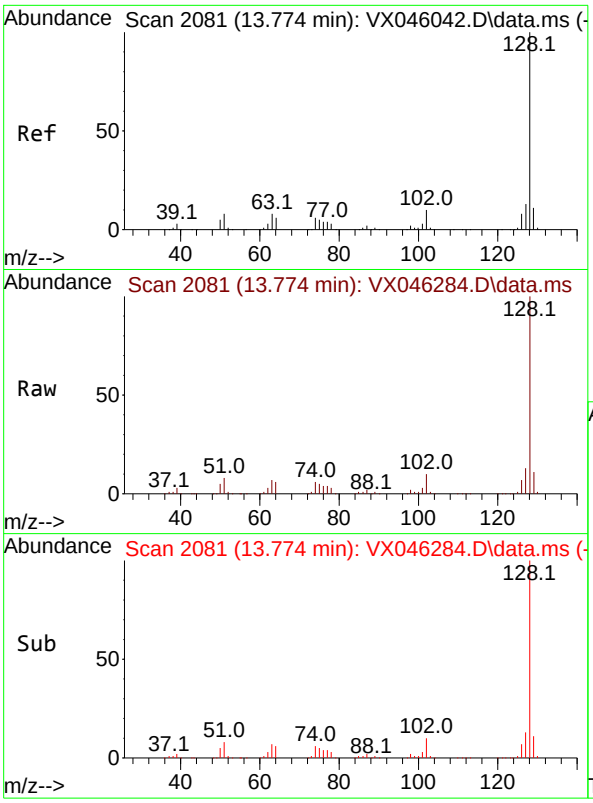



#94
Hexachlorobutadiene
Concen: 51.510 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:225 Resp: 28949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 30.8 | 92.4 |
| 227 | 63.5 | 30.9 | 92.7 |

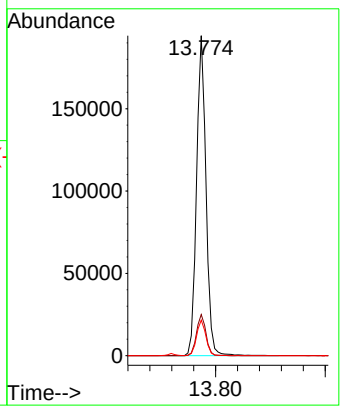





#95
Naphthalene
Concen: 49.502 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:128 Resp: 23363

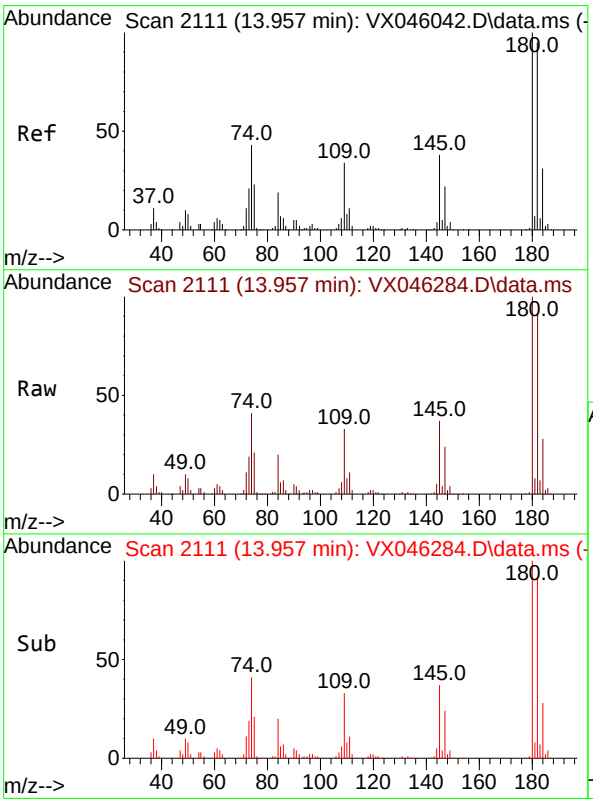
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.4 | 15.6 |
| 129 | 11.0 | 8.6 | 13.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

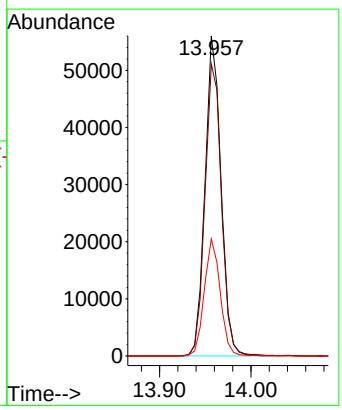
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025




#96
1,2,3-Trichlorobenzene
Concen: 51.272 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046284.D
Acq: 21 May 2025 09:55

Tgt Ion:180 Resp: 68077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.0 | 47.8 | 143.3 |
| 145 | 36.4 | 18.1 | 54.3 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046284.D
Acq On : 21 May 2025 09:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 22 01:44:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 98 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.765 | 0.775 | -1.3 | 88 | 0.00 |
| 3 | P | Chloromethane | 0.742 | 0.718 | 3.2 | 91 | 0.00 |
| 4 | C | Vinyl Chloride | 0.691 | 0.658 | 4.8# | 91 | 0.00 |
| 5 | T | Bromomethane | 0.320 | 0.295 | 7.8 | 89 | 0.00 |
| 6 | T | Chloroethane | 0.369 | 0.376 | -1.9 | 97 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.021 | 1.037 | -1.6 | 95 | 0.00 |
| 8 | T | Diethyl Ether | 0.347 | 0.339 | 2.3 | 98 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.632 | 0.636 | -0.6 | 97 | 0.00 |
| 10 | T | Methyl Iodide | 0.747 | 0.700 | 6.3 | 85 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.131 | 0.127 | 3.1 | 97 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.593 | 0.565 | 4.7# | 92 | 0.00 |
| 13 | T | Acrolein | 0.149 | 0.191 | -28.2# | 123 | 0.00 |
| 14 | T | Allyl chloride | 1.133 | 1.169 | -3.2 | 97 | 0.00 |
| 15 | T | Acrylonitrile | 0.374 | 0.382 | -2.1 | 96 | 0.00 |
| 16 | T | Acetone | 0.374 | 0.385 | -2.9 | 104 | 0.00 |
| 17 | T | Carbon Disulfide | 1.406 | 1.268 | 9.8 | 85 | 0.00 |
| 18 | T | Methyl Acetate | 0.867 | 1.025 | -18.2 | 118 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.079 | 2.141 | -3.0 | 97 | 0.00 |
| 20 | T | Methylene Chloride | 0.716 | 0.669 | 6.6 | 96 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.596 | 0.569 | 4.5 | 91 | 0.00 |
| 22 | T | Diisopropyl ether | 2.189 | 2.268 | -3.6 | 97 | 0.00 |
| 23 | T | Vinyl Acetate | 1.925 | 1.957 | -1.7 | 94 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.219 | 1.239 | -1.6 | 96 | 0.00 |
| 25 | T | 2-Butanone | 0.543 | 0.551 | -1.5 | 97 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.954 | 1.003 | -5.1 | 103 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.718 | 0.707 | 1.5 | 94 | 0.00 |
| 28 | T | Bromochloromethane | 0.587 | 0.554 | 5.6 | 94 | -0.01 |
| 29 | T | Tetrahydrofuran | 0.340 | 0.341 | -0.3 | 95 | 0.00 |
| 30 | C | Chloroform | 1.271 | 1.290 | -1.5# | 97 | 0.00 |
| 31 | T | Cyclohexane | 1.111 | 1.034 | 6.9 | 90 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.101 | 1.116 | -1.4 | 97 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.932 | 0.913 | 2.0 | 98 | -0.01 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.360 | 0.371 | -3.1 | 101 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.484 | 0.472 | 2.5 | 92 | 0.00 |
| 37 | T | Ethyl Acetate | 0.598 | 0.600 | -0.3 | 95 | -0.01 |
| 38 | T | Carbon Tetrachloride | 0.544 | 0.553 | -1.7 | 96 | 0.00 |
| 39 | T | Methylcyclohexane | 0.623 | 0.594 | 4.7 | 89 | 0.00 |
| 40 | TM | Benzene | 1.417 | 1.412 | 0.4 | 92 | 0.00 |
| 41 | T | Methacrylonitrile | 0.313 | 0.347 | -10.9 | 97 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.612 | 0.615 | -0.5 | 94 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.912 | 0.966 | -5.9 | 97 | 0.00 |
| 44 | TM | Trichloroethene | 0.341 | 0.344 | -0.9 | 93 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.352 | 0.366 | -4.0# | 95 | 0.00 |
| 46 | T | Dibromomethane | 0.278 | 0.281 | -1.1 | 94 | 0.00 |
| 47 | T | Bromodichloromethane | 0.547 | 0.585 | -6.9 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 0.466 | 0.505 | -8.4 | 97 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046284.D
Acq On : 21 May 2025 09:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 22 01:44:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 0.009 | 0.009 | 0.0 | 92 | 0.00 |
| 50 | S | Toluene-d8 | 1.246 | 1.223 | 1.8 | 96 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.605 | 0.637 | -5.3 | 97 | 0.00 |
| 52 | CM | Toluene | 0.869 | 0.857 | 1.4# | 92 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.487 | 0.530 | -8.8 | 97 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.538 | 0.582 | -8.2 | 97 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.343 | 0.354 | -3.2 | 96 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.546 | 0.586 | -7.3 | 95 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.615 | 0.612 | 0.5 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.278 | 0.305 | -9.7 | 96 | 0.00 |
| 59 | T | 2-Hexanone | 0.448 | 0.473 | -5.6 | 96 | 0.00 |
| 60 | T | Dibromochloromethane | 0.376 | 0.414 | -10.1 | 100 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.356 | 0.359 | -0.8 | 93 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.478 | 0.481 | -0.6 | 99 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 64 | T | Tetrachloroethene | 0.354 | 0.370 | -4.5 | 95 | 0.00 |
| 65 | PM | Chlorobenzene | 1.094 | 1.082 | 1.1 | 95 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.374 | 0.391 | -4.5 | 96 | 0.00 |
| 67 | C | Ethyl Benzene | 1.929 | 1.968 | -2.0# | 93 | 0.00 |
| 68 | T | m/p-Xylenes | 0.706 | 0.721 | -2.1 | 94 | 0.00 |
| 69 | T | o-Xylene | 0.688 | 0.712 | -3.5 | 94 | 0.00 |
| 70 | T | Styrene | 1.127 | 1.215 | -7.8 | 96 | 0.00 |
| 71 | P | Bromoform | 0.281 | 0.307 | -9.3 | 97 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 73 | T | Isopropylbenzene | 3.893 | 4.007 | -2.9 | 97 | 0.00 |
| 74 | T | N-amyl acetate | 1.924 | 1.991 | -3.5 | 96 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.364 | 1.299 | 4.8 | 97 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.204 | 1.190 | 1.2 | 100 | 0.00 |
| 77 | T | Bromobenzene | 0.904 | 0.900 | 0.4 | 97 | 0.00 |
| 78 | T | n-propylbenzene | 4.526 | 4.671 | -3.2 | 96 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.919 | 2.866 | 1.8 | 95 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.252 | 3.344 | -2.8 | 95 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.370 | 0.393 | -6.2 | 102 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.238 | 3.326 | -2.7 | 97 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.276 | 3.302 | -0.8 | 96 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.293 | 3.417 | -3.8 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.022 | 4.193 | -4.3 | 98 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.320 | 3.467 | -4.4 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.649 | 1.667 | -1.1 | 98 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.684 | 1.675 | 0.5 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 2.912 | 3.134 | -7.6 | 99 | 0.00 |
| 90 | T | Hexachloroethane | 0.585 | 0.614 | -5.0 | 98 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.655 | 1.691 | -2.2 | 99 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.302 | 0.314 | -4.0 | 97 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.951 | 0.977 | -2.7 | 99 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.415 | 0.428 | -3.1 | 100 | 0.00 |
| 95 | T | Naphthalene | 3.487 | 3.452 | 1.0 | 95 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046284.D
Acq On : 21 May 2025 09:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 22 01:44:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 0.981 | 1.006 | -2.5 | 98 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046284.D
Acq On : 21 May 2025 09:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 22 01:44:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 98 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 50.666 | -1.3 | 88 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 48.364 | 3.3 | 91 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 47.612 | 4.8# | 91 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 46.032 | 7.9 | 89 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 50.964 | -1.9 | 97 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 50.803 | -1.6 | 95 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 48.764 | 2.5 | 98 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 50.314 | -0.6 | 97 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 46.821 | 6.4 | 85 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 242.803 | 2.9 | 97 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.678 | 4.6# | 92 | 0.00 |
| 13 | T | Acrolein | 250.000 | 321.031 | -28.4# | 123 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 51.600 | -3.2 | 97 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 255.100 | -2.0 | 96 | 0.00 |
| 16 | T | Acetone | 250.000 | 257.477 | -3.0 | 104 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 45.096 | 9.8 | 85 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 59.105 | -18.2 | 118 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 51.499 | -3.0 | 97 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 46.691 | 6.6 | 96 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 47.714 | 4.6 | 91 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 51.803 | -3.6 | 97 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 254.084 | -1.6 | 94 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.800 | -1.6 | 96 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 254.074 | -1.6 | 97 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 52.543 | -5.1 | 103 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.246 | 1.5 | 94 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 47.215 | 5.6 | 94 | -0.01 |
| 29 | T | Tetrahydrofuran | 250.000 | 250.853 | -0.3 | 95 | 0.00 |
| 30 | C | Chloroform | 50.000 | 50.762 | -1.5# | 97 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 46.552 | 6.9 | 90 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.660 | -1.3 | 97 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 48.949 | 2.1 | 98 | -0.01 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 96 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 51.518 | -3.0 | 101 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 48.791 | 2.4 | 92 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 50.197 | -0.4 | 95 | -0.01 |
| 38 | T | Carbon Tetrachloride | 50.000 | 50.907 | -1.8 | 96 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 47.691 | 4.6 | 89 | 0.00 |
| 40 | TM | Benzene | 50.000 | 49.833 | 0.3 | 92 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 55.480 | -11.0 | 97 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 50.298 | -0.6 | 94 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 52.987 | -6.0 | 97 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.452 | -0.9 | 93 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 51.990 | -4.0# | 95 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 50.531 | -1.1 | 94 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 53.478 | -7.0 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 54.212 | -8.4 | 97 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046284.D
Acq On : 21 May 2025 09:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 22 01:44:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 977.870 | 2.2 | 92 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 49.081 | 1.8 | 96 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 262.926 | -5.2 | 97 | 0.00 |
| 52 | CM | Toluene | 50.000 | 49.311 | 1.4# | 92 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 54.425 | -8.8 | 97 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 54.136 | -8.3 | 97 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.730 | -3.5 | 96 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 53.634 | -7.3 | 95 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.714 | 0.6 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 273.669 | -9.5 | 96 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 263.910 | -5.6 | 96 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 54.971 | -9.9 | 100 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 50.413 | -0.8 | 93 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 50.363 | -0.7 | 99 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 96 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 52.359 | -4.7 | 95 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.440 | 1.1 | 95 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 52.376 | -4.8 | 96 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 51.011 | -2.0# | 93 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 102.233 | -2.2 | 94 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 51.746 | -3.5 | 94 | 0.00 |
| 70 | T | Styrene | 50.000 | 53.925 | -7.8 | 96 | 0.00 |
| 71 | P | Bromoform | 50.000 | 54.740 | -9.5 | 97 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.463 | -2.9 | 97 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 51.743 | -3.5 | 96 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 47.625 | 4.8 | 97 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 49.455 | 1.1 | 100 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.799 | 0.4 | 97 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 51.595 | -3.2 | 96 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.086 | 1.8 | 95 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.421 | -2.8 | 95 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 53.175 | -6.3 | 102 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 51.369 | -2.7 | 97 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.408 | -0.8 | 96 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.885 | -3.8 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 52.129 | -4.3 | 98 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 52.222 | -4.4 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.537 | -1.1 | 98 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 49.713 | 0.6 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 53.818 | -7.6 | 99 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 52.527 | -5.1 | 98 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 51.087 | -2.2 | 99 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.001 | -4.0 | 97 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 51.375 | -2.8 | 99 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 51.510 | -3.0 | 100 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 49.502 | 1.0 | 95 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046284.D
Acq On : 21 May 2025 09:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 22 01:44:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 51.272 | -2.5 | 98 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG No.: Q2075

Instrument ID: MSVOA_X Calibration Date/Time: 05/23/2025 09:24

Lab File ID: VX046331.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Benzene | 1.417 | 1.421 | | 0.28 | 20 |
| Toluene | 0.869 | 0.878 | | 1.04 | 20 |
| Ethyl Benzene | 1.929 | 1.985 | | 2.9 | 20 |
| m/p-Xylenes | 0.706 | 0.719 | | 1.84 | 20 |
| o-Xylene | 0.688 | 0.714 | | 3.78 | 20 |
| Isopropylbenzene | 3.893 | 3.986 | | 2.39 | 20 |
| n-propylbenzene | 4.526 | 4.678 | | 3.36 | 20 |
| 1,3,5-Trimethylbenzene | 3.252 | 3.374 | | 3.75 | 20 |
| tert-Butylbenzene | 3.276 | 3.334 | | 1.77 | 20 |
| 1,2,4-Trimethylbenzene | 3.293 | 3.388 | | 2.88 | 20 |
| sec-Butylbenzene | 4.022 | 4.204 | | 4.53 | 20 |
| p-Isopropyltoluene | 3.320 | 3.484 | | 4.94 | 20 |
| n-Butylbenzene | 2.912 | 3.156 | | 8.38 | 20 |
| 1,2-Dichloroethane-d4 | 0.932 | 0.966 | | 3.65 | 20 |
| Dibromofluoromethane | 0.360 | 0.384 | | 6.67 | 20 |
| Toluene-d8 | 1.246 | 1.307 | | 4.9 | 20 |
| 4-Bromofluorobenzene | 0.478 | 0.514 | | 7.53 | 20 |

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\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 89943 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 154938 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 137123 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 66629 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 86863 | 51.802 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 103.600% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 59429 | 53.265 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 106.540% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 202439 | 52.423 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 104.840% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 79568 | 53.716 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 107.440% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 64545 | 46.886 | ug/l | 97 |
| 3) Chloromethane | 1.306 | 50 | 58836 | 44.072 | ug/l | 99 |
| 4) Vinyl Chloride | 1.374 | 62 | 53273 | 42.877 | ug/l | 98 |
| 5) Bromomethane | 1.599 | 94 | 25935 | 45.004 | ug/l | 95 |
| 6) Chloroethane | 1.672 | 64 | 33980 | 51.230 | ug/l | 99 |
| 7) Trichlorofluoromethane | 1.880 | 101 | 89339 | 48.653 | ug/l | 98 |
| 8) Diethyl Ether | 2.130 | 74 | 30446 | 48.706 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 2.318 | 101 | 55612 | 48.939 | ug/l | 98 |
| 10) Methyl Iodide | 2.447 | 142 | 61527 | 45.758 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.965 | 59 | 64532 | 274.166 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.312 | 96 | 49469 | 46.384 | ug/l | 97 |
| 13) Acrolein | 2.233 | 56 | 71978 | 268.519 | ug/l | 98 |
| 14) Allyl chloride | 2.660 | 41 | 105111 | 51.568 | ug/l | 97 |
| 15) Acrylonitrile | 3.062 | 53 | 181852 | 270.194 | ug/l | 98 |
| 16) Acetone | 2.379 | 43 | 176899 | 263.114 | ug/l | 100 |
| 17) Carbon Disulfide | 2.507 | 76 | 105198 | 41.606 | ug/l | 99 |
| 18) Methyl Acetate | 2.703 | 43 | 98895 | 63.388 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 197614 | 52.851 | ug/l | 99 |
| 20) Methylene Chloride | 2.782 | 84 | 59651 | 46.299 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 50409 | 47.000 | ug/l | 92 |
| 22) Diisopropyl ether | 3.757 | 45 | 207508 | 52.704 | ug/l | 98 |
| 23) Vinyl Acetate | 3.715 | 43 | 910937 | 263.054 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 111459 | 50.826 | ug/l | 99 |
| 25) 2-Butanone | 4.550 | 43 | 266316 | 272.843 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 89521 | 52.155 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 63472 | 49.159 | ug/l | 99 |
| 28) Bromochloromethane | 4.891 | 49 | 54142 | 51.292 | ug/l | 100 |
| 29) Tetrahydrofuran | 5.001 | 42 | 166716 | 272.575 | ug/l | 98 |
| 30) Chloroform | 5.086 | 83 | 115698 | 50.618 | ug/l | 91 |
| 31) Cyclohexane | 5.464 | 56 | 92255 | 46.166 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 5.379 | 97 | 101459 | 51.206 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 72479 | 48.349 | ug/l | 100 |
| 37) Ethyl Acetate | 4.708 | 43 | 97648 | 52.723 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.672 | 117 | 85412 | 50.709 | ug/l | 99 |
| 39) Methylcyclohexane | 7.372 | 83 | 92549 | 47.954 | ug/l | 96 |
| 40) Benzene | 6.031 | 78 | 220133 | 50.133 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 56487m | 58.302 | ug/l | | |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 97361 | 51.375 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.336 | 43 | 158225 | 55.999 | ug/l | | 99 |
| 44) Trichloroethene | 7.123 | 130 | 53136 | 50.279 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 7.421 | 63 | 58016 | 53.136 | ug/l | | 99 |
| 46) Dibromomethane | 7.574 | 93 | 44309 | 51.454 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.818 | 83 | 92253 | 54.392 | ug/l | | 99 |
| 48) Methyl methacrylate | 7.689 | 41 | 82925 | 57.467 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.659 | 88 | 28855 | 1053.147 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 8.567 | 43 | 524686 | 279.753 | ug/l | | 99 |
| 52) Toluene | 8.714 | 92 | 136068 | 50.537 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 84046 | 55.750 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 91612 | 54.982 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 56661 | 53.371 | ug/l | | 97 |
| 56) Ethyl methacrylate | 9.110 | 69 | 97493 | 57.619 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 98945 | 51.895 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 231542 | 268.416 | ug/l | | 99 |
| 59) 2-Hexanone | 9.427 | 43 | 395700 | 285.172 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.518 | 129 | 64591 | 55.399 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 58405 | 52.931 | ug/l | | 98 |
| 64) Tetrachloroethene | 9.268 | 164 | 48977 | 50.481 | ug/l | | 96 |
| 65) Chlorobenzene | 10.073 | 112 | 148639 | 49.525 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 53302 | 52.010 | ug/l | | 98 |
| 67) Ethyl Benzene | 10.189 | 91 | 272231 | 51.457 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 197275 | 101.954 | ug/l | | 98 |
| 69) o-Xylene | 10.640 | 106 | 97901 | 51.899 | ug/l | | 98 |
| 70) Styrene | 10.652 | 104 | 165627 | 53.599 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 42491 | 55.224 | ug/l | # | 97 |
| 73) Isopropylbenzene | 10.957 | 105 | 265569 | 51.196 | ug/l | | 99 |
| 74) N-amyl acetate | 10.841 | 43 | 138648 | 54.091 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 91010 | 50.066 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 81837m | 51.027 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 59541 | 49.441 | ug/l | | 100 |
| 78) n-propylbenzene | 11.299 | 91 | 311660 | 51.673 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 191122 | 49.128 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 224812 | 51.877 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.012 | 75 | 27002 | 54.814 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 219638 | 50.910 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.713 | 119 | 222135 | 50.888 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 225740 | 51.438 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 280123 | 52.265 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 232168 | 52.479 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.963 | 146 | 109948 | 50.025 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 111425 | 49.641 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 210250 | 54.179 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 41404 | 53.122 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 12.329 | 146 | 112487 | 51.002 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 22183 | 55.085 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 66261 | 52.307 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 29675 | 53.637 | ug/l | | 99 |
| 95) Naphthalene | 13.774 | 128 | 242188 | 52.127 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 67021 | 51.275 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

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

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

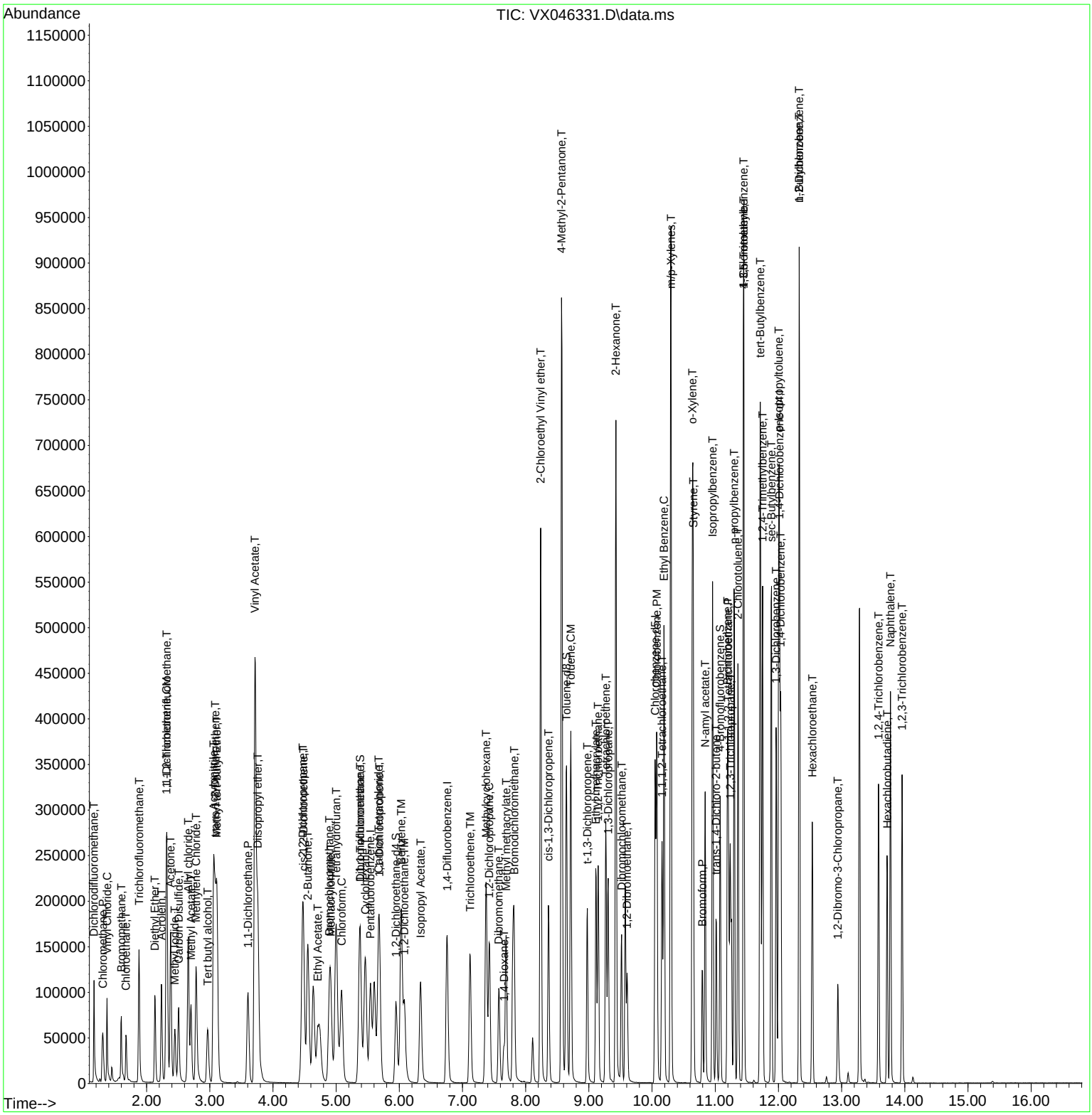
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

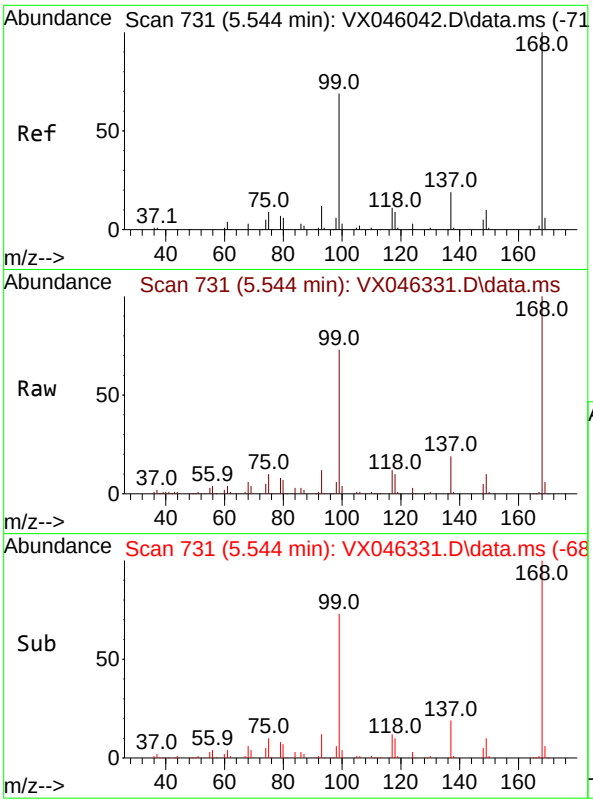
Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

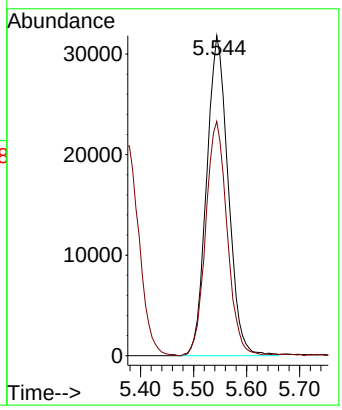





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:168 Resp: 8994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 73.2 | 54.9 | 82.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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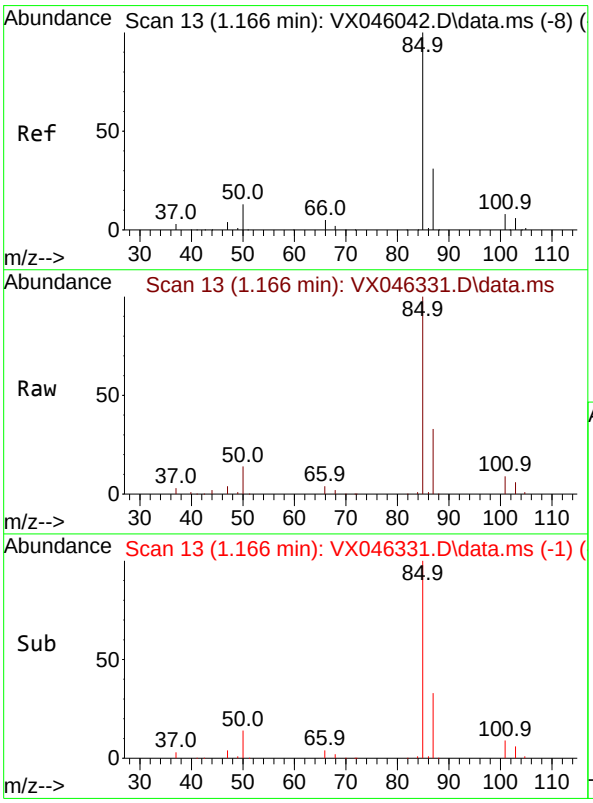
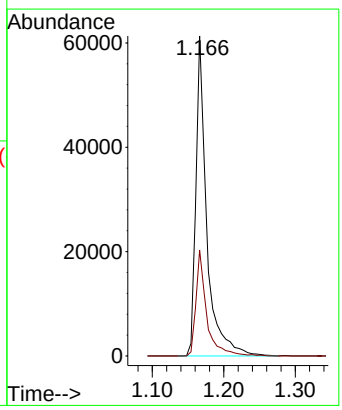
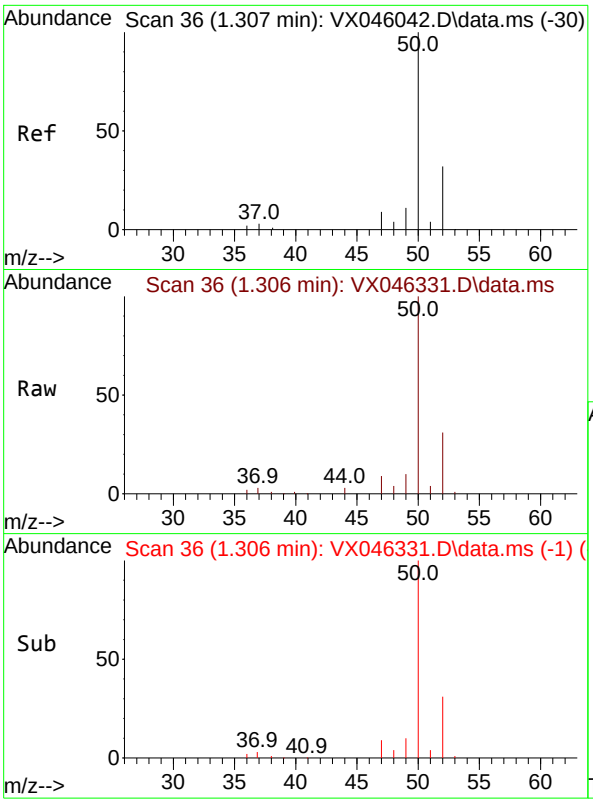



#2
Dichlorodifluoromethane
Concen: 46.886 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 85 Resp: 64545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.1 | 15.7 | 47.1 |

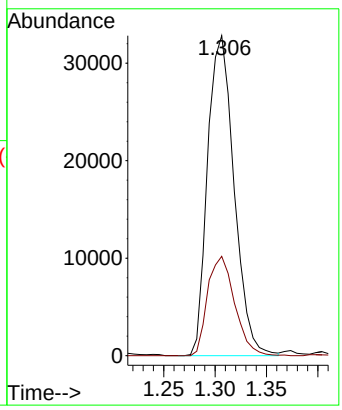





#3
Chloromethane
Concen: 44.072 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 50 Resp: 5883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.0 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 05/26/2025
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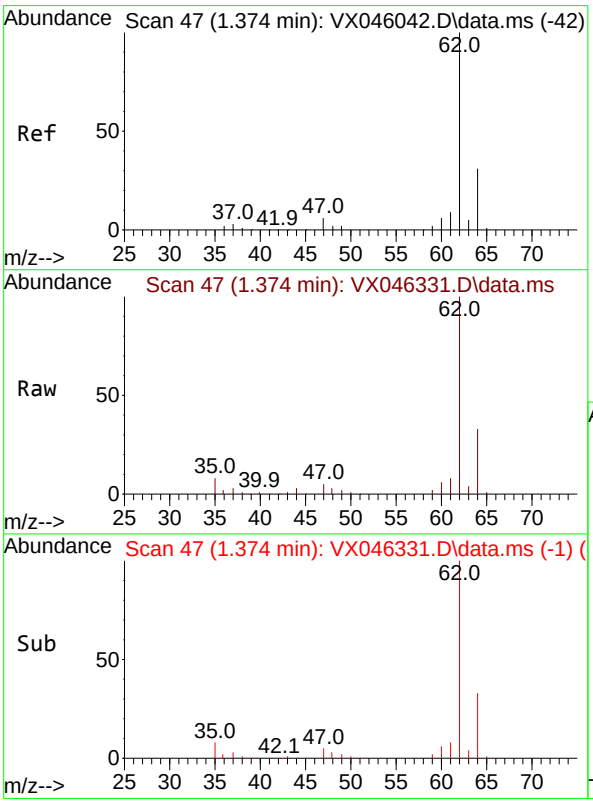
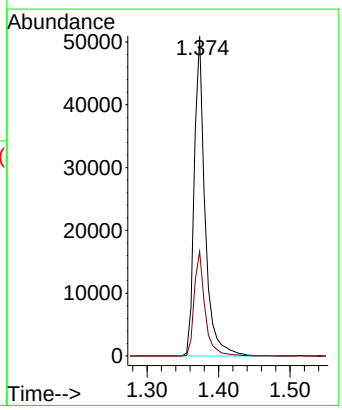
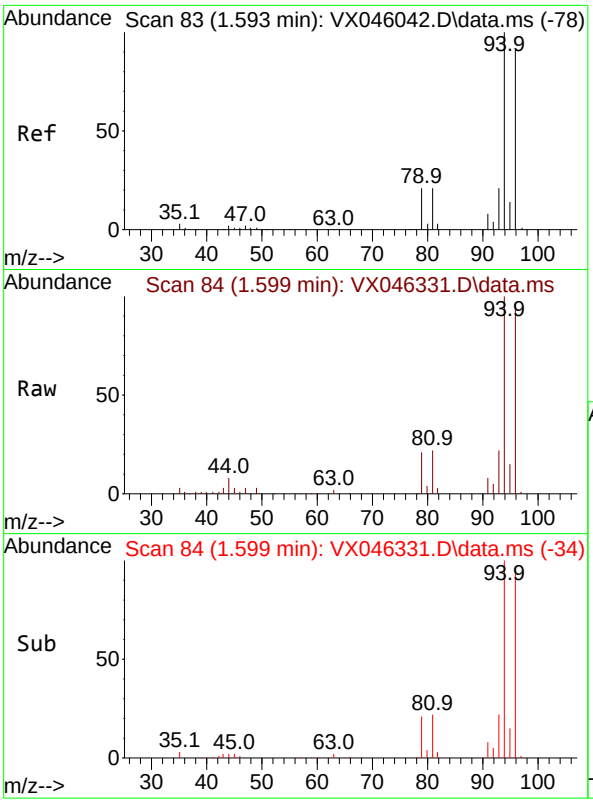



#4
Vinyl Chloride
Concen: 42.877 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 62 Resp: 53273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.6 | 25.2 | 37.8 |

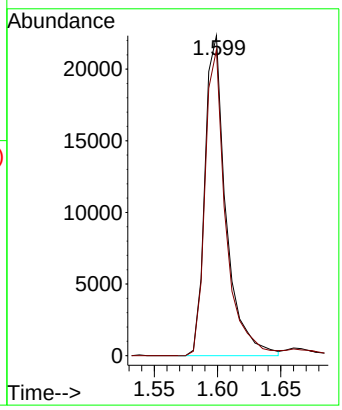





#5
Bromomethane
Concen: 45.004 ug/l
RT: 1.599 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 94 Resp: 2593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.6 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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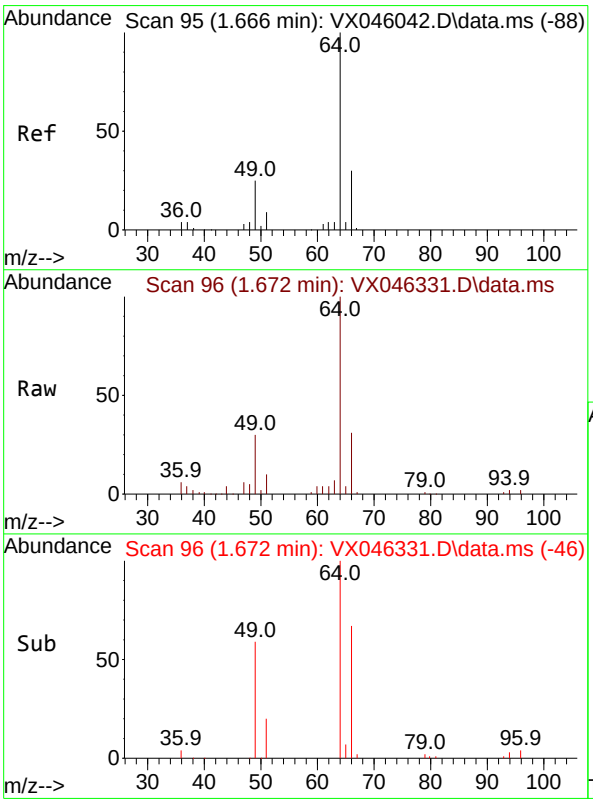
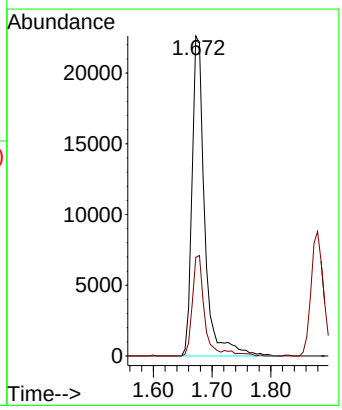
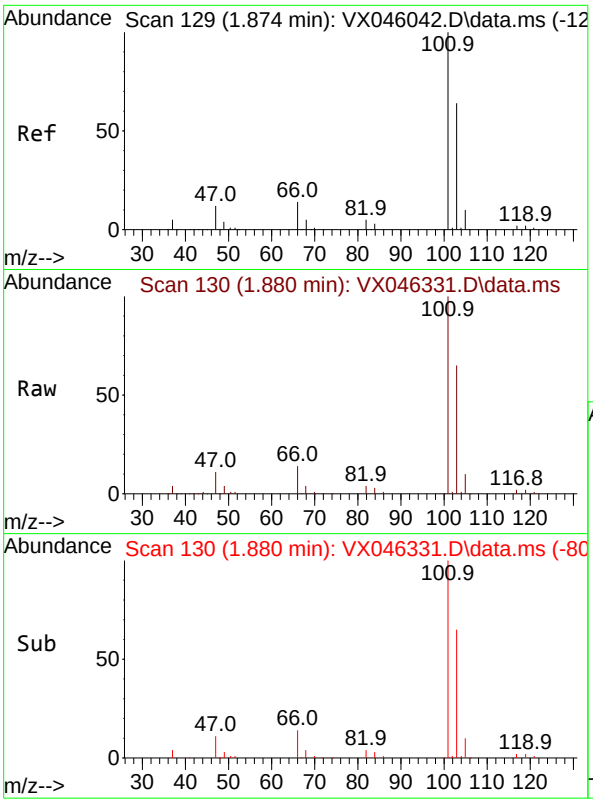



#6
Chloroethane
Concen: 51.230 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 64 Resp: 33980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.9 | 24.3 | 36.5 |

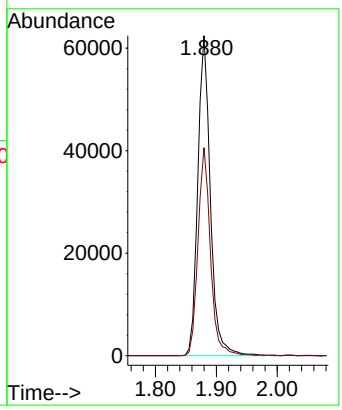





#7
Trichlorofluoromethane
Concen: 48.653 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:101 Resp: 8933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.0 | 51.0 | 76.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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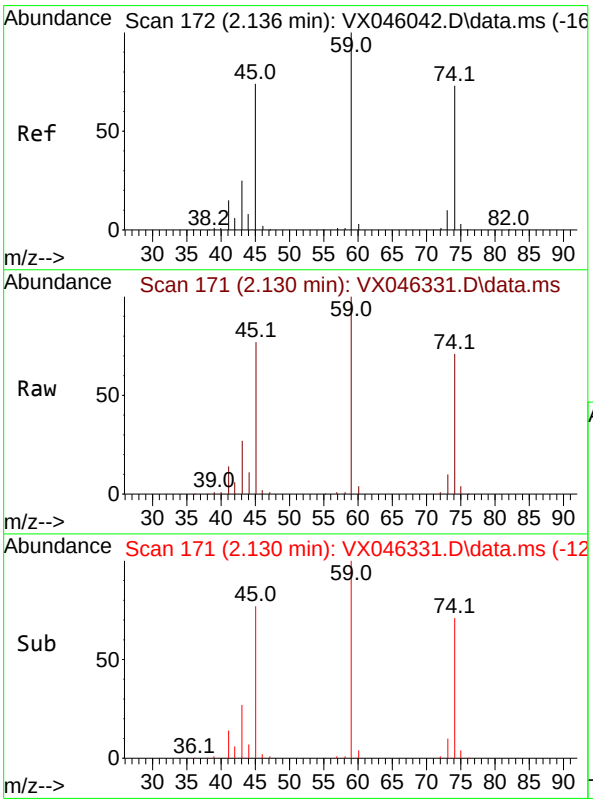
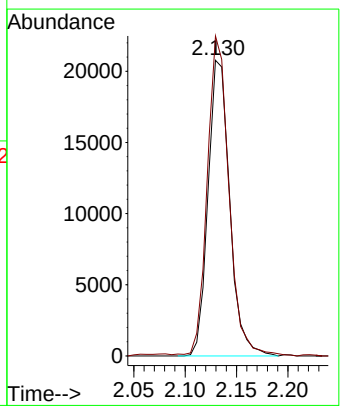
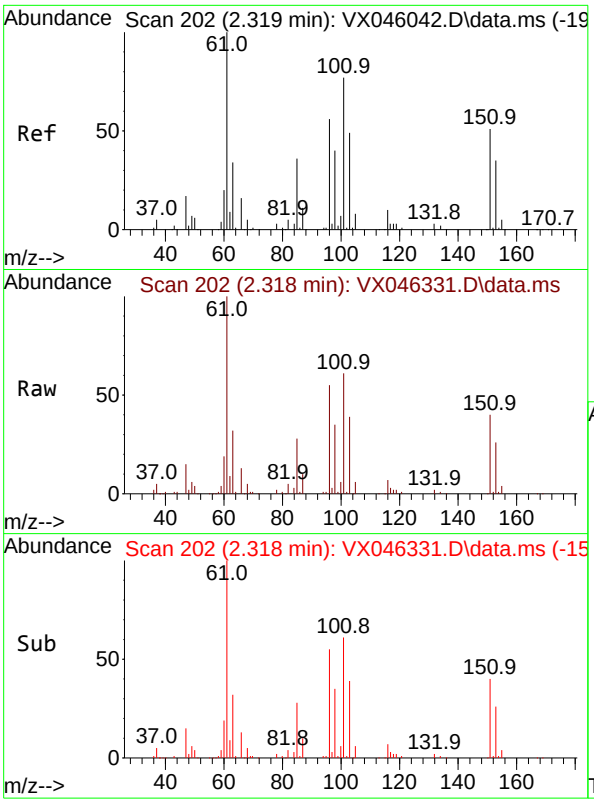



#8
Diethyl Ether
Concen: 48.706 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 74 Resp: 30446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 108.6 | 54.9 | 164.8 |

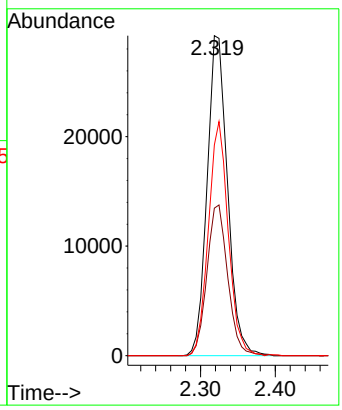





#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.939 ug/l
RT: 2.318 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:101 Resp: 5561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 48.0 | 38.6 | 58.0 |
| 151 | 71.0 | 55.2 | 82.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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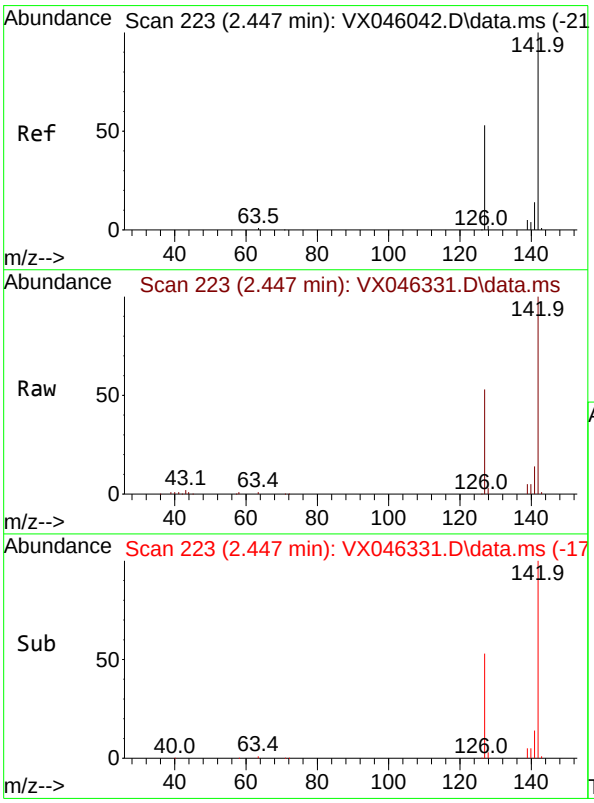
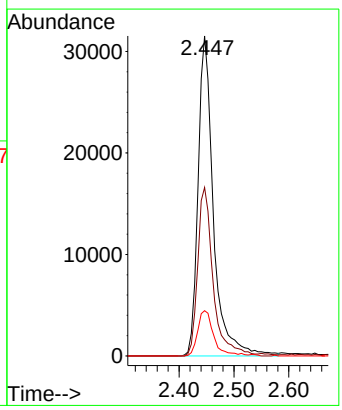
Supervised By :Mahesh Dadoda 05/26/2025

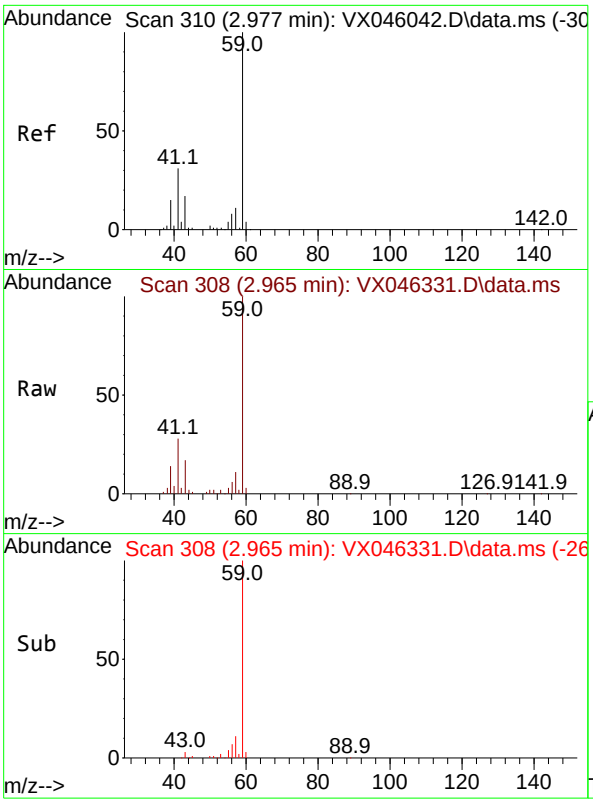



#10
Methyl Iodide
Concen: 45.758 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:142 Resp: 61527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 52.7 | 41.7 | 62.5 |
| 141 | 14.7 | 11.5 | 17.3 |

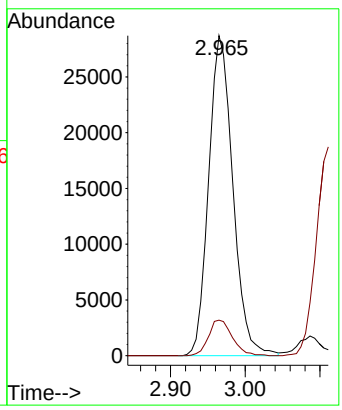





#11
Tert butyl alcohol
Concen: 274.166 ug/l
RT: 2.965 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 59 Resp: 6453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.0 | 8.6 | 12.8 |




**Instrument :**
MSVOA_X
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VSTDCCC050

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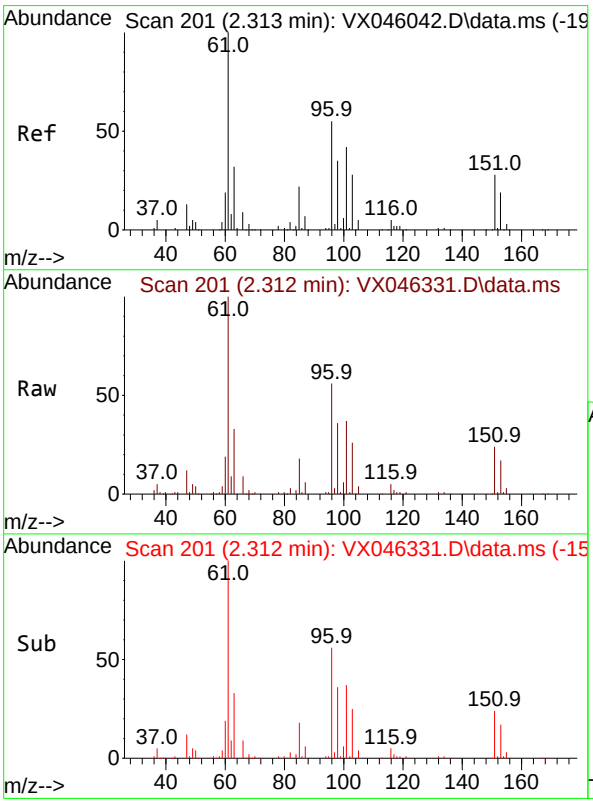
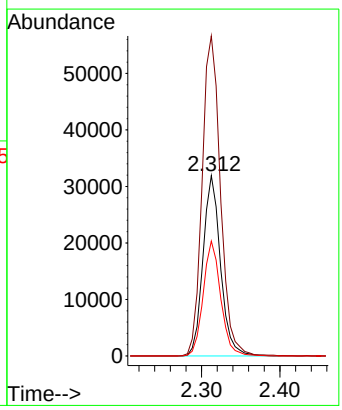
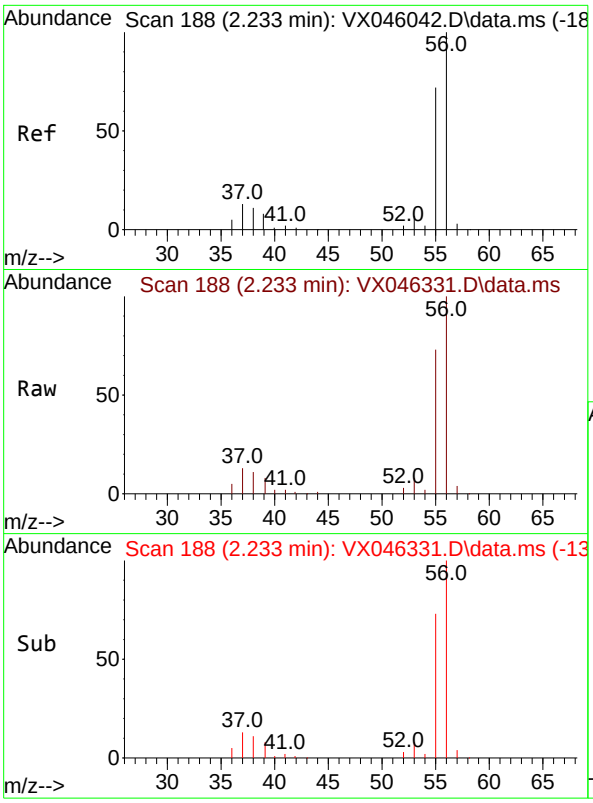



#12
1,1-Dichloroethene
Concen: 46.384 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 96 Resp: 49469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 177.5 | 146.2 | 219.2 |
| 98 | 63.7 | 51.0 | 76.6 |

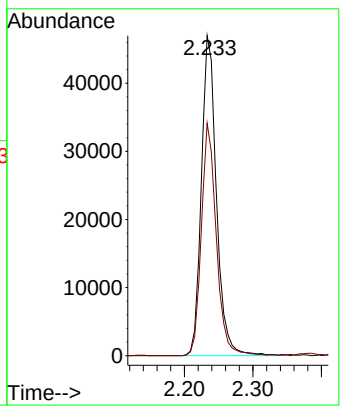





#13
Acrolein
Concen: 268.519 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 56 Resp: 7197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.3 | 56.2 | 84.4 |




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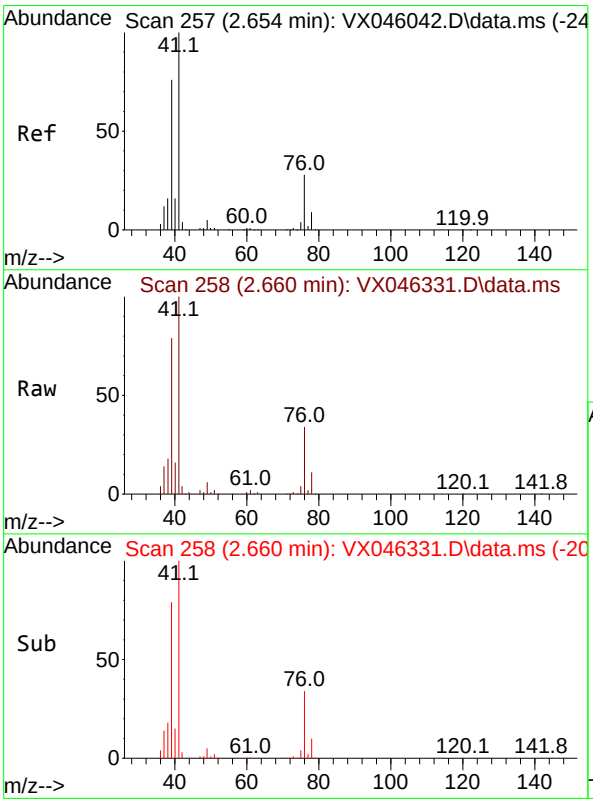
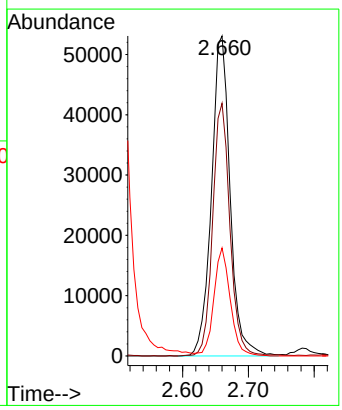
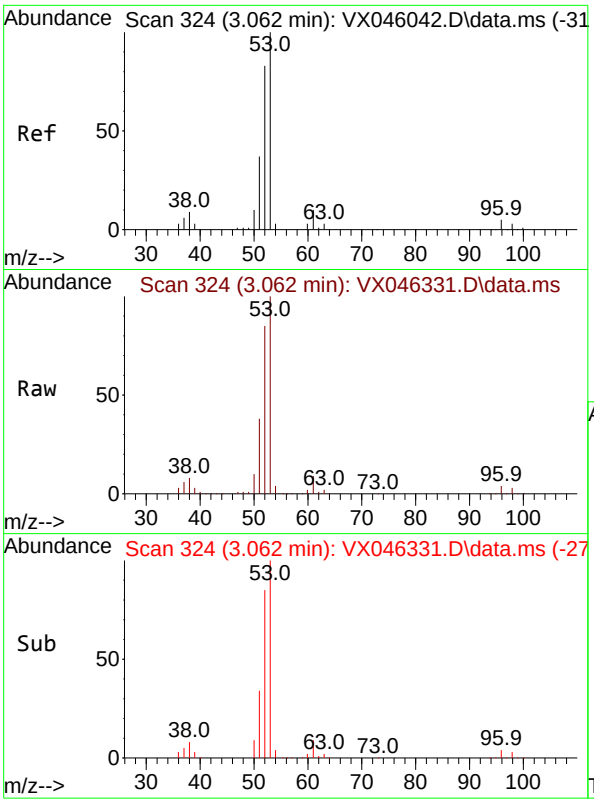



#14
Allyl chloride
Concen: 51.568 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 41 Resp: 105111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 72.7 | 60.6 | 90.8 |
| 76 | 29.7 | 24.9 | 37.3 |

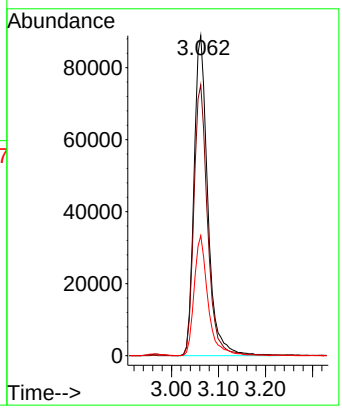





#15
Acrylonitrile
Concen: 270.194 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 53 Resp: 18185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 84.1 | 65.3 | 97.9 |
| 51 | 37.3 | 29.8 | 44.8 |




**Instrument :**
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VSTDCCC050

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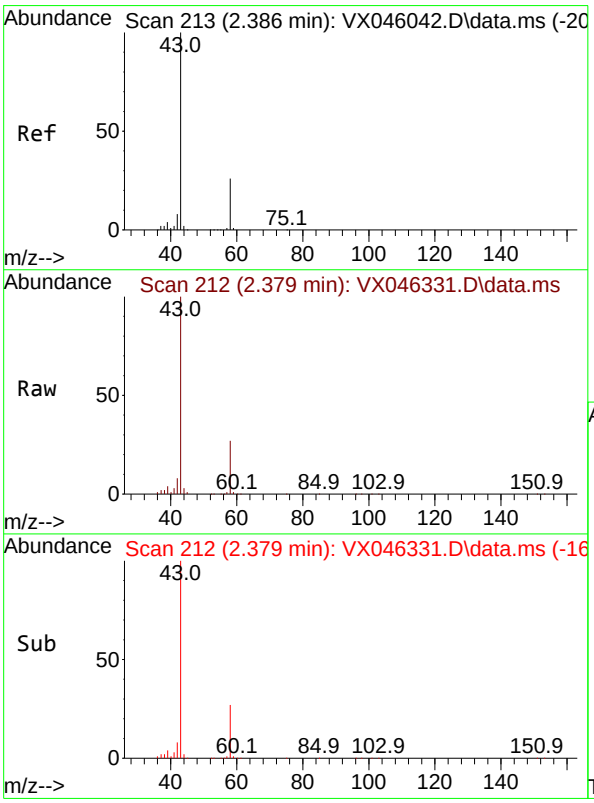
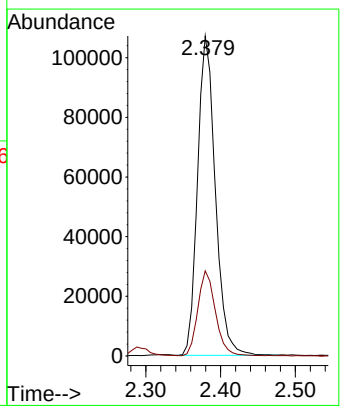
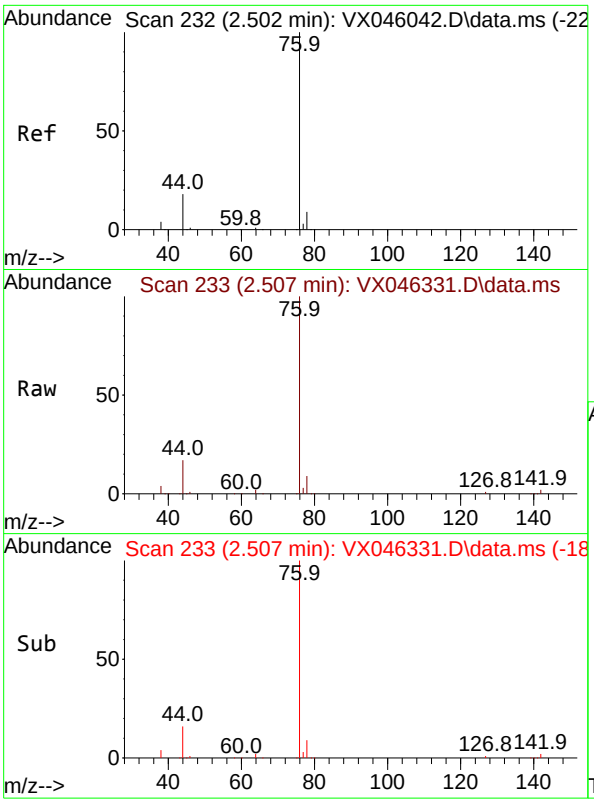



#16
Acetone
Concen: 263.114 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 176899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.6 | 21.2 | 31.8 |

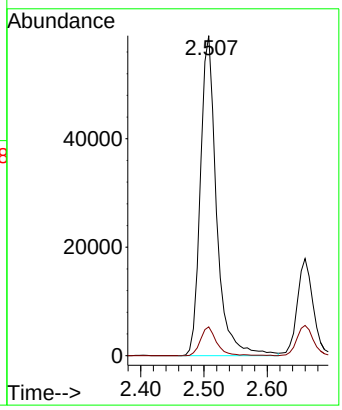





#17
Carbon Disulfide
Concen: 41.606 ug/l
RT: 2.507 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 76 Resp: 10519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.0 | 10.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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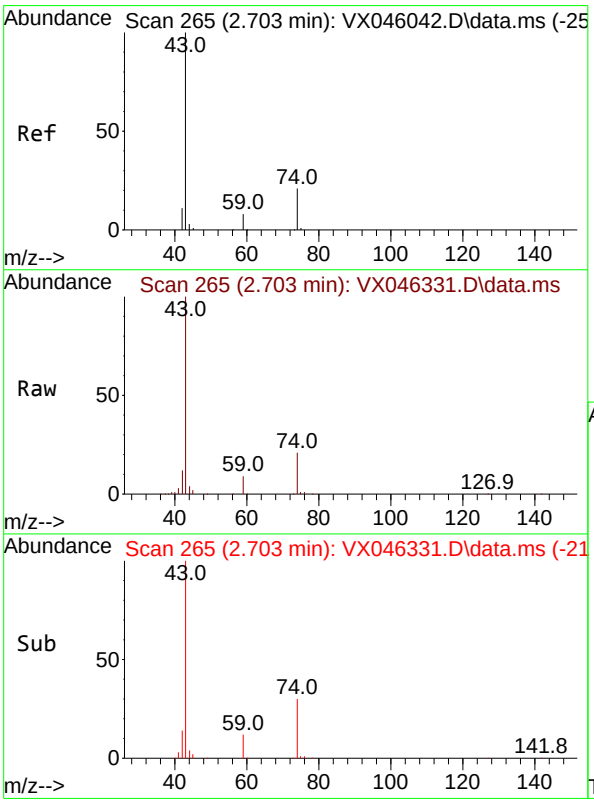
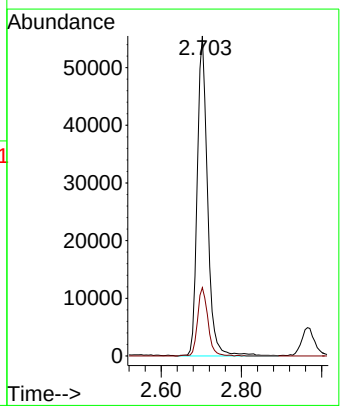
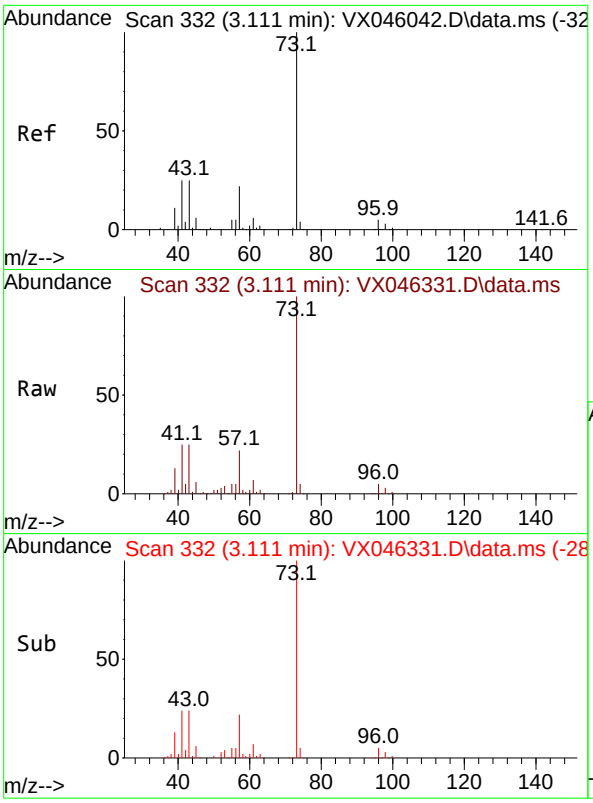



#18
Methyl Acetate
Concen: 63.388 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 98895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 21.4 | 16.7 | 25.1 |






#19
Methyl tert-butyl Ether
Concen: 52.851 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

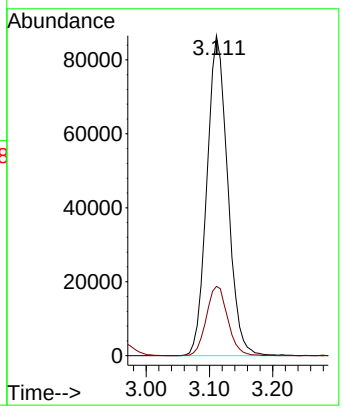
Tgt Ion: 73 Resp: 19761

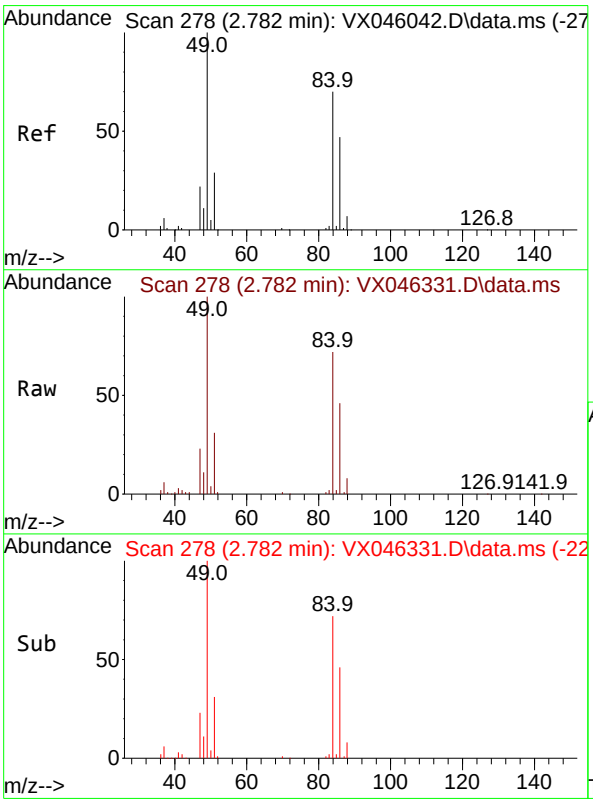
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.7 | 17.7 | 26.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

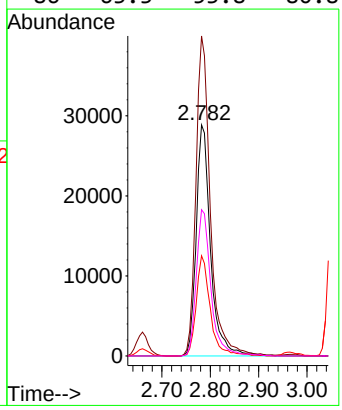


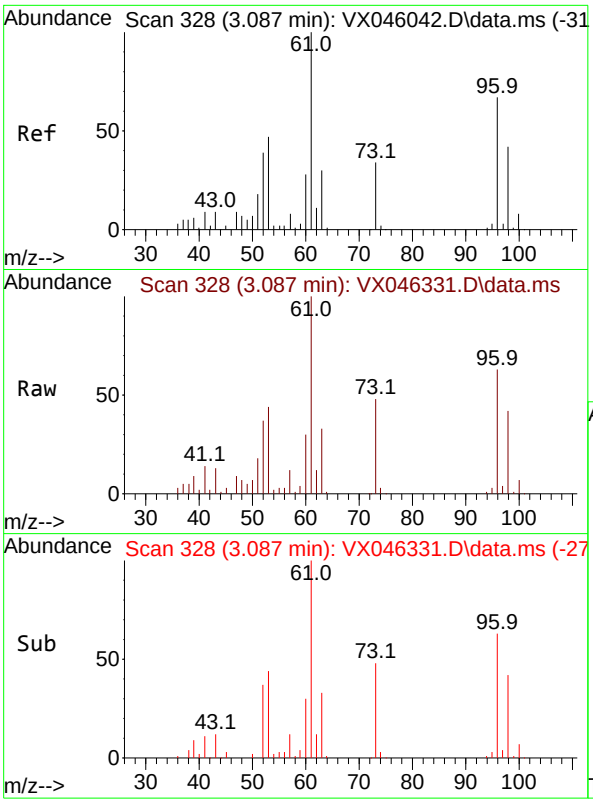




#20
Methylene Chloride
Concen: 46.299 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 84 Resp: 59651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 138.5 | 113.9 | 170.9 |
| 51 | 43.3 | 33.5 | 50.3 |
| 86 | 63.3 | 53.8 | 80.8 |

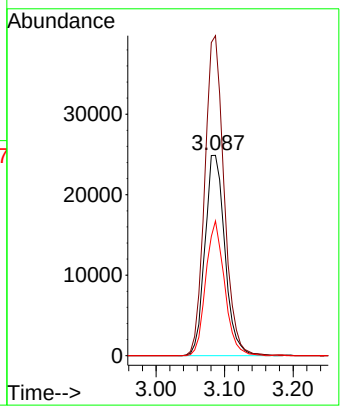





#21
trans-1,2-Dichloroethene
Concen: 47.000 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 96 Resp: 5040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 159.7 | 119.5 | 179.3 |
| 98 | 67.3 | 50.0 | 75.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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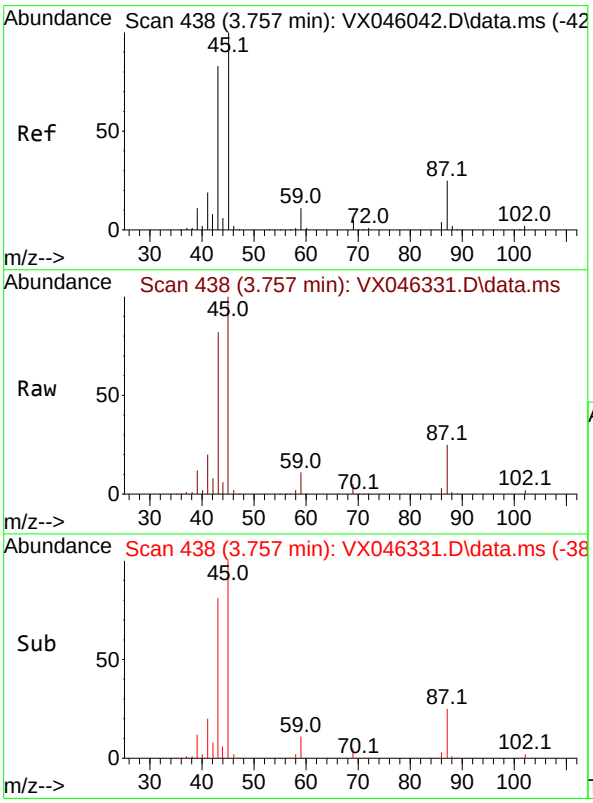
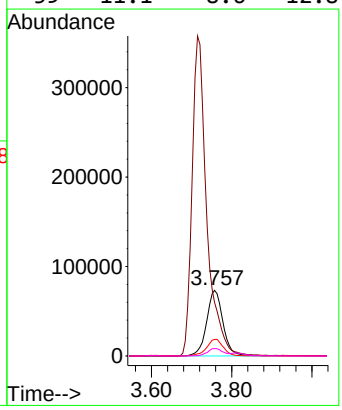
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

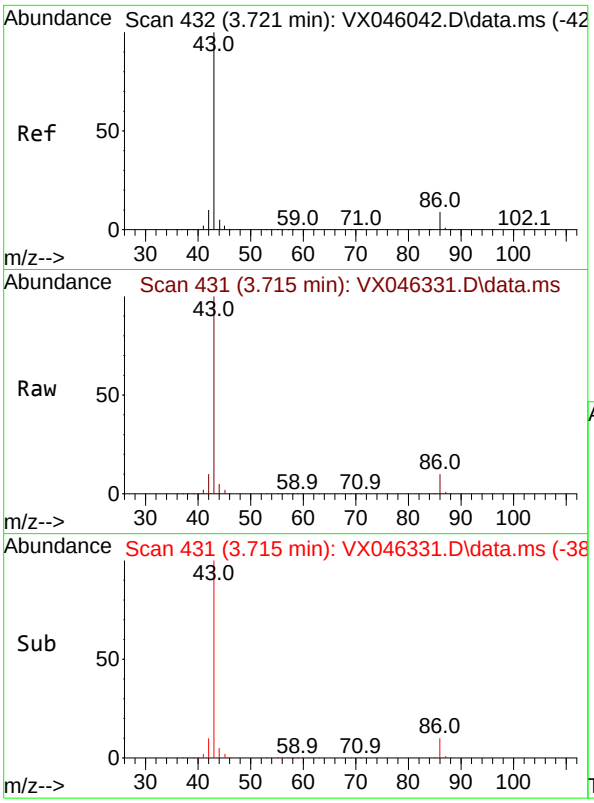



#22
Diisopropyl ether
Concen: 52.704 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 45 Resp: 207508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 81.5 | 66.6 | 100.0 |
| 87 | 25.1 | 19.8 | 29.6 |
| 59 | 11.1 | 8.6 | 12.8 |

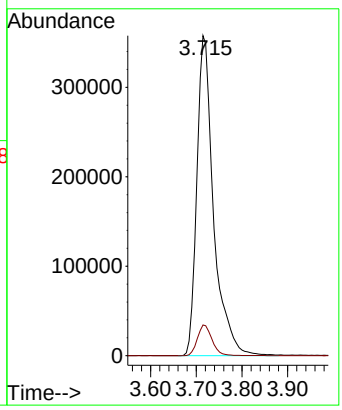





#23
Vinyl Acetate
Concen: 263.054 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 91093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.6 | 7.5 | 11.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 05/26/2025
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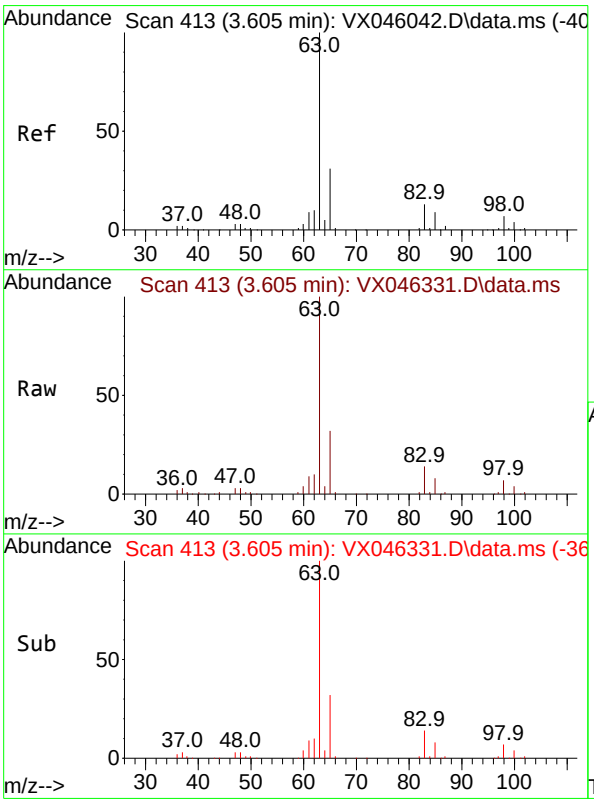
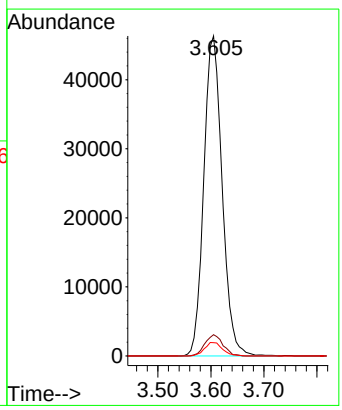
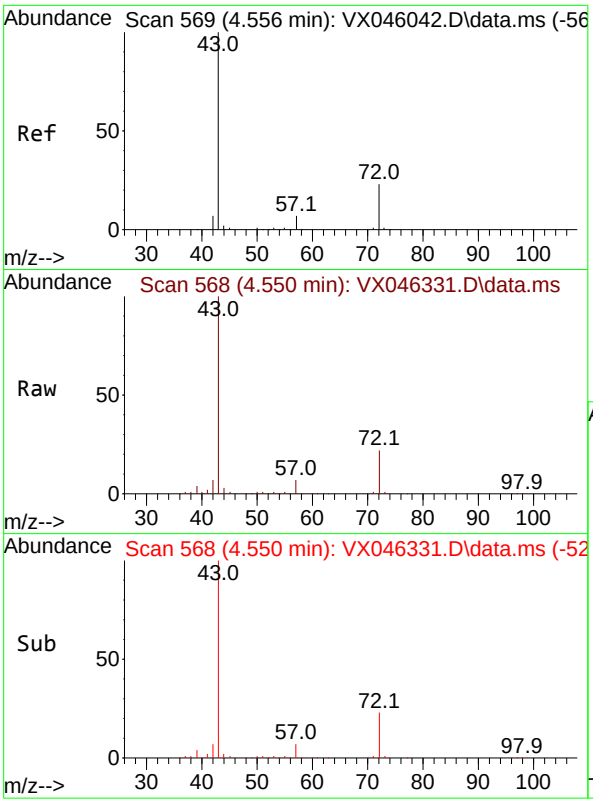



#24
1,1-Dichloroethane
Concen: 50.826 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 63 Resp: 111459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.6 | 3.6 | 10.8 |
| 100 | 4.1 | 2.1 | 6.3 |

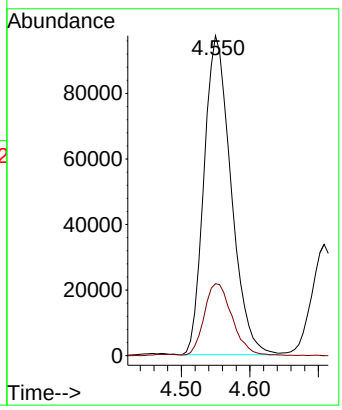





#25
2-Butanone
Concen: 272.843 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 26631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.3 | 18.4 | 27.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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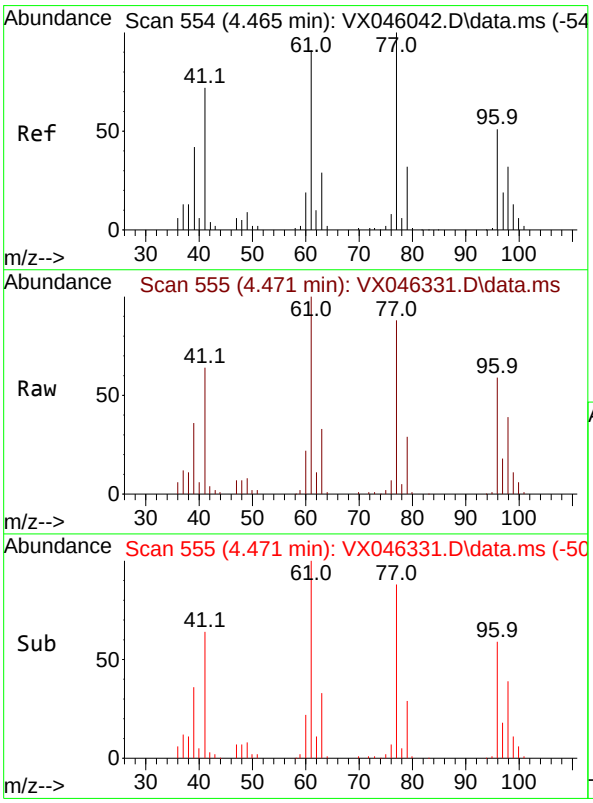
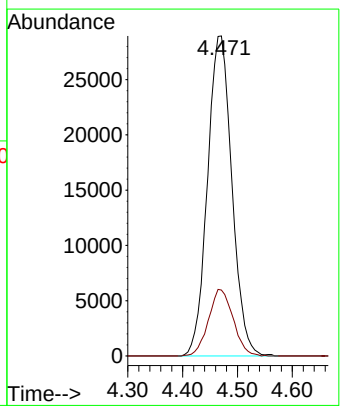
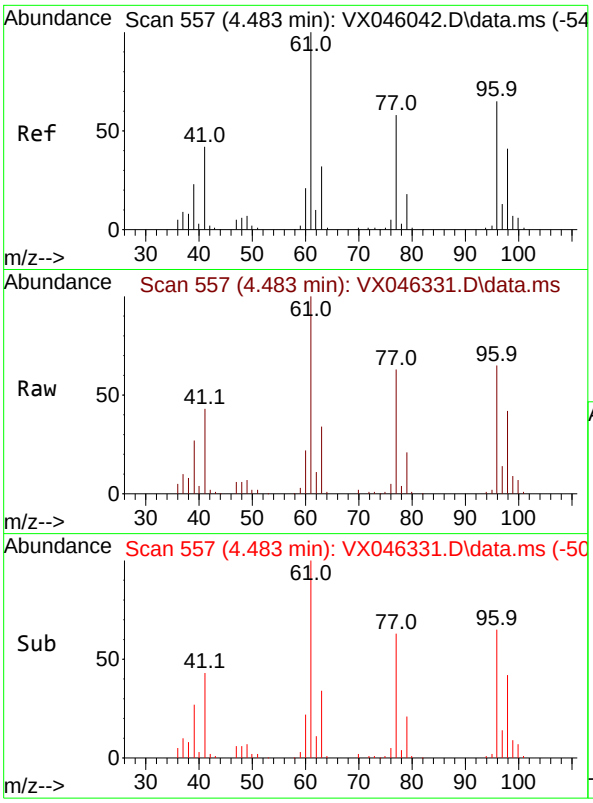



#26
2,2-Dichloropropane
Concen: 52.155 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 77 Resp: 89521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.0 | 10.5 | 31.5 |

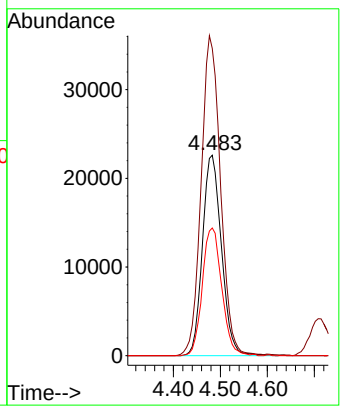





#27
cis-1,2-Dichloroethene
Concen: 49.159 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 96 Resp: 6347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.9 | 0.0 | 322.8 |
| 98 | 65.1 | 0.0 | 129.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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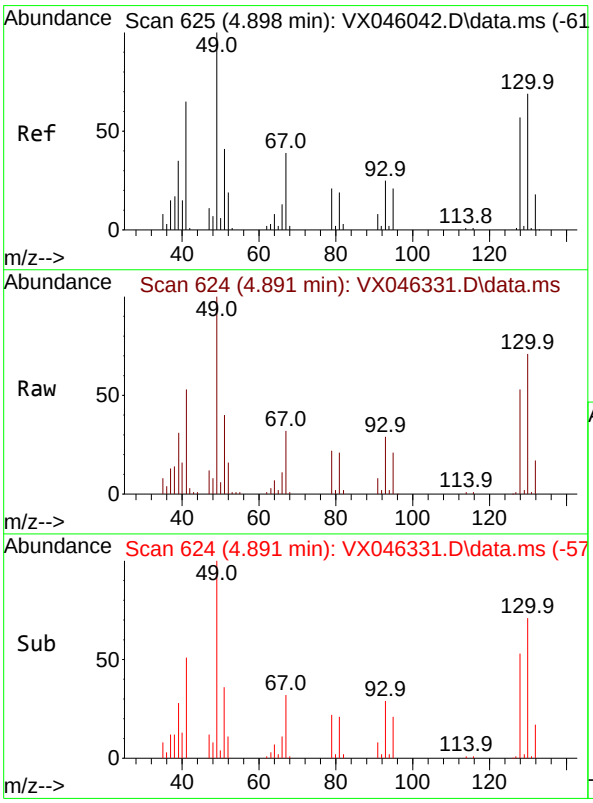
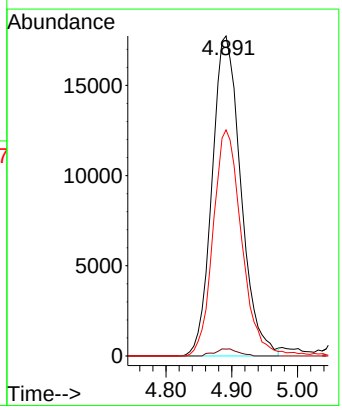
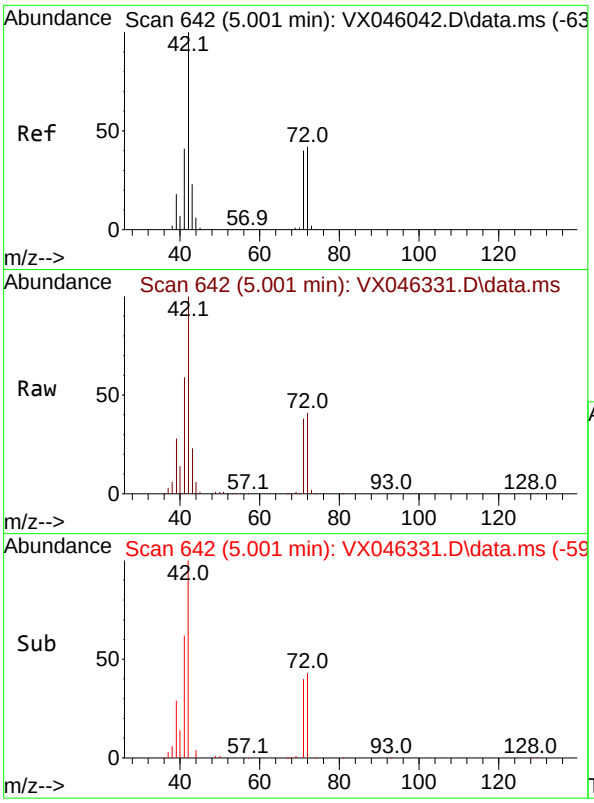



#28
Bromochloromethane
Concen: 51.292 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 49 Resp: 54142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 4.0 |
| 130 | 70.2 | 56.2 | 84.2 |






#29
Tetrahydrofuran
Concen: 272.575 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 42 Resp: 16671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.2 | 33.7 | 50.5 |
| 71 | 37.9 | 31.4 | 47.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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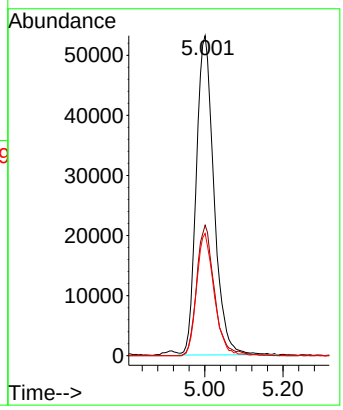
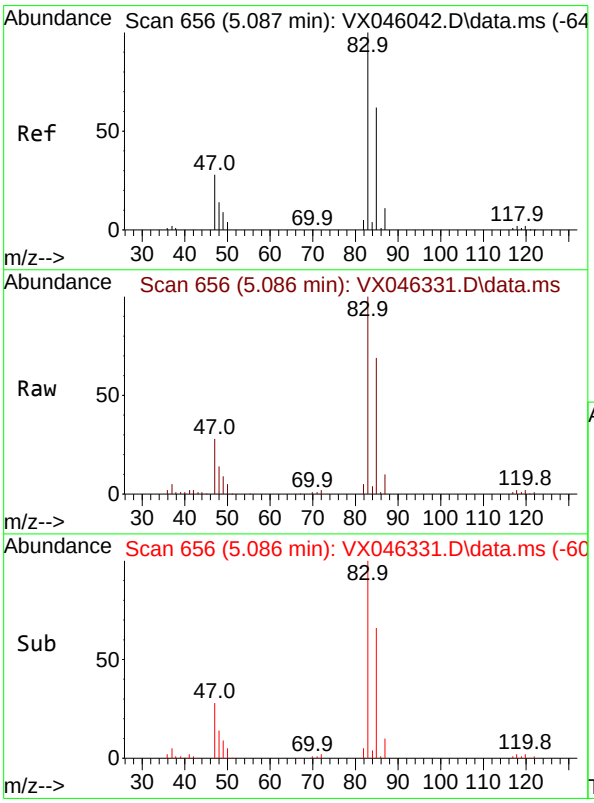
Supervised By :Mahesh Dadoda 05/26/2025

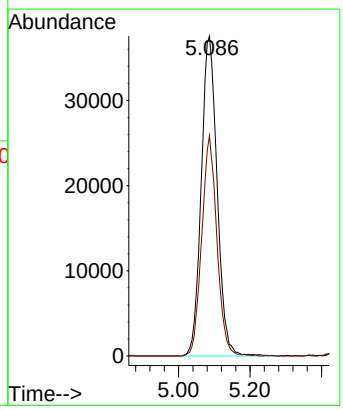


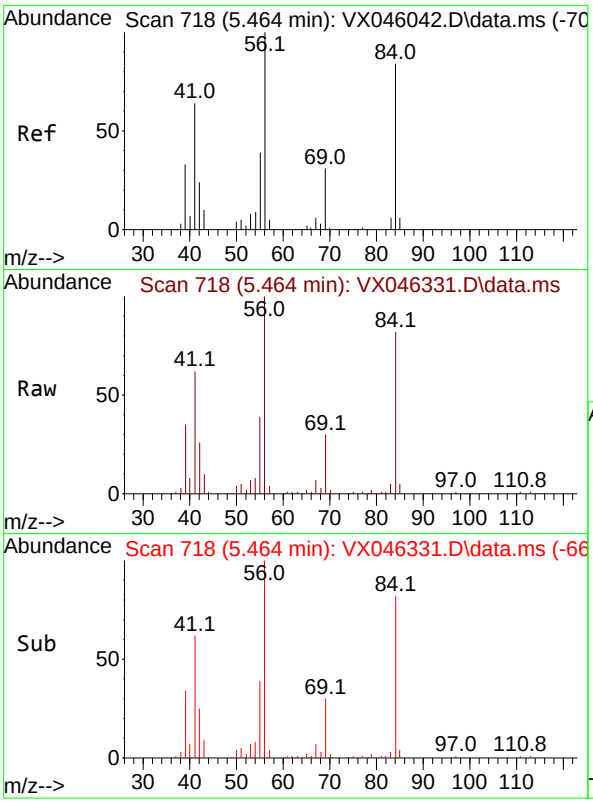




#30
Chloroform
Concen: 50.618 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 83 Resp: 115698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 68.9 | 49.3 | 73.9 |

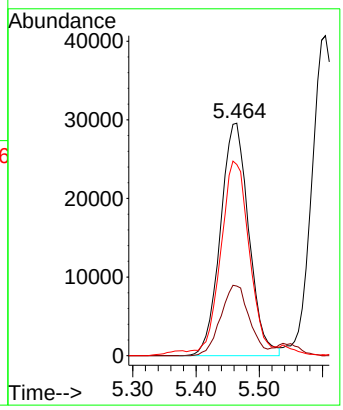





#31
Cyclohexane
Concen: 46.166 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 56 Resp: 9225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 30.0 | 24.4 | 36.6 |
| 84 | 80.1 | 66.9 | 100.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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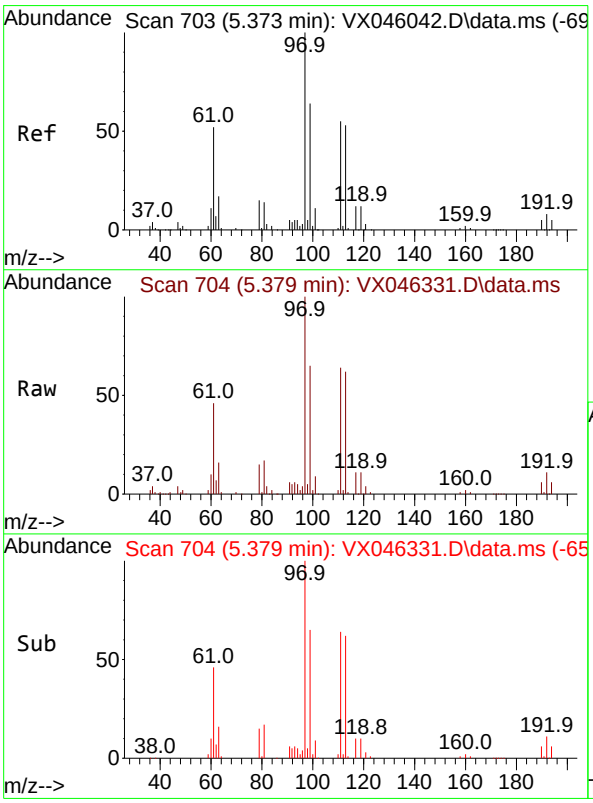
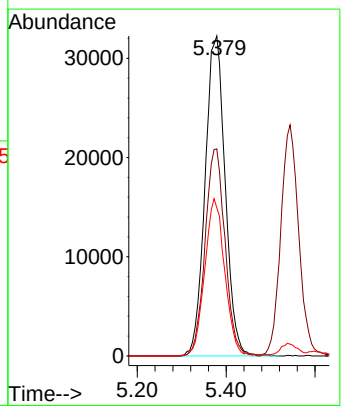
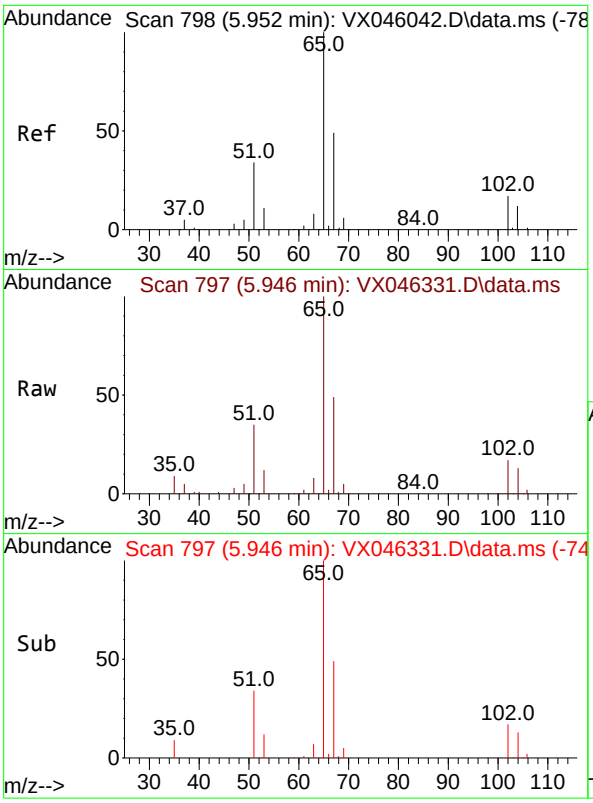



#32
1,1,1-Trichloroethane
Concen: 51.206 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 97 Resp: 101459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 51.8 | 77.6 |
| 61 | 49.1 | 40.1 | 60.1 |






#33
1,2-Dichloroethane-d4
Concen: 51.802 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 65 Resp: 8686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.1 | 0.0 | 99.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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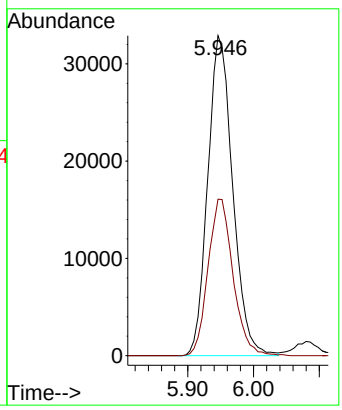
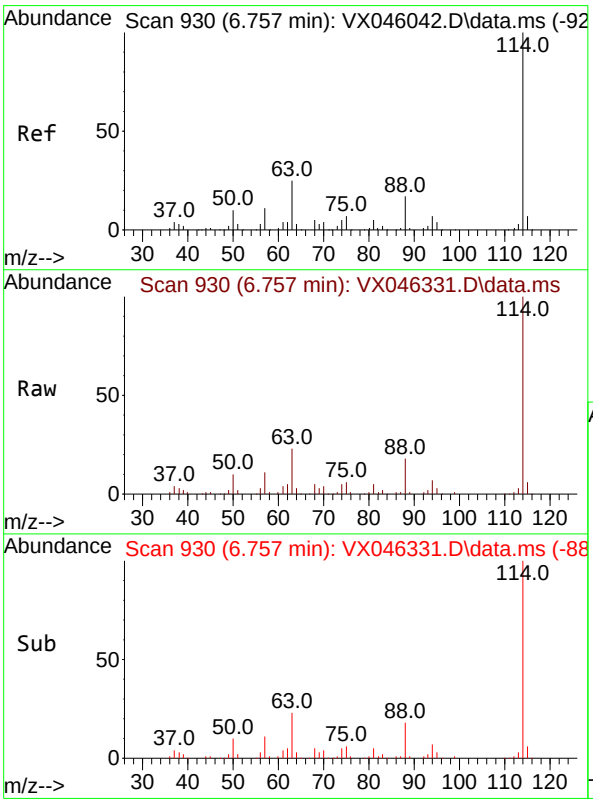
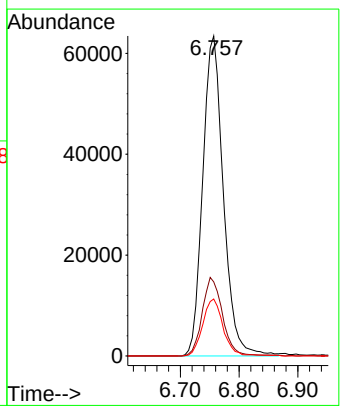


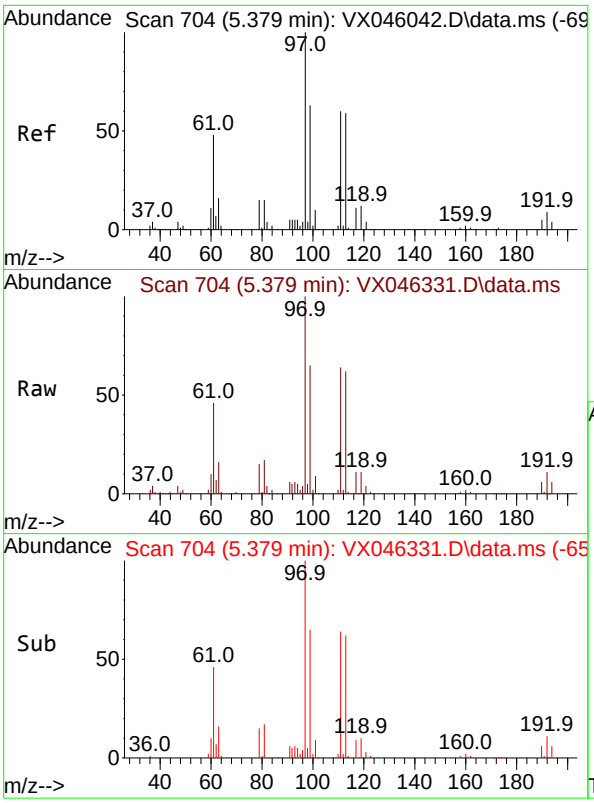




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:114 Resp: 154938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.1 | 0.0 | 49.2 |
| 88 | 17.8 | 0.0 | 33.6 |

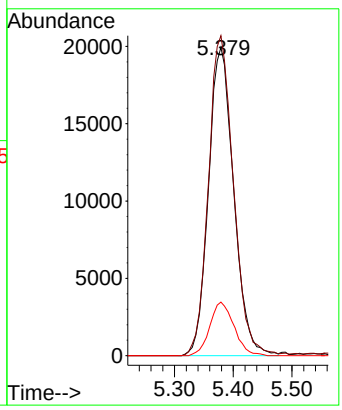





#35
Dibromofluoromethane
Concen: 53.265 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:113 Resp: 5942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 83.1 | 124.7 |
| 192 | 16.7 | 13.3 | 19.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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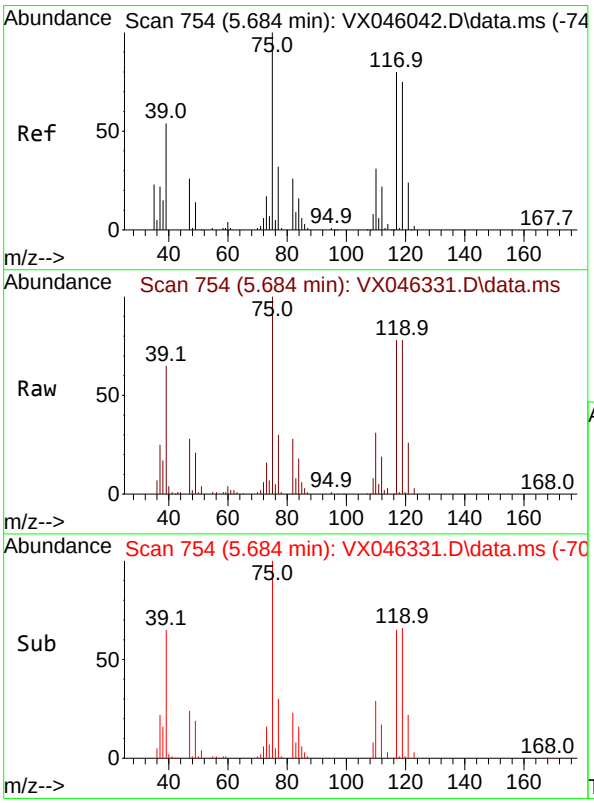
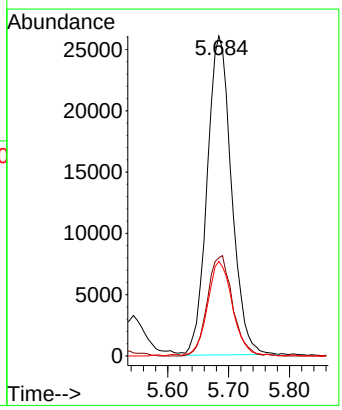
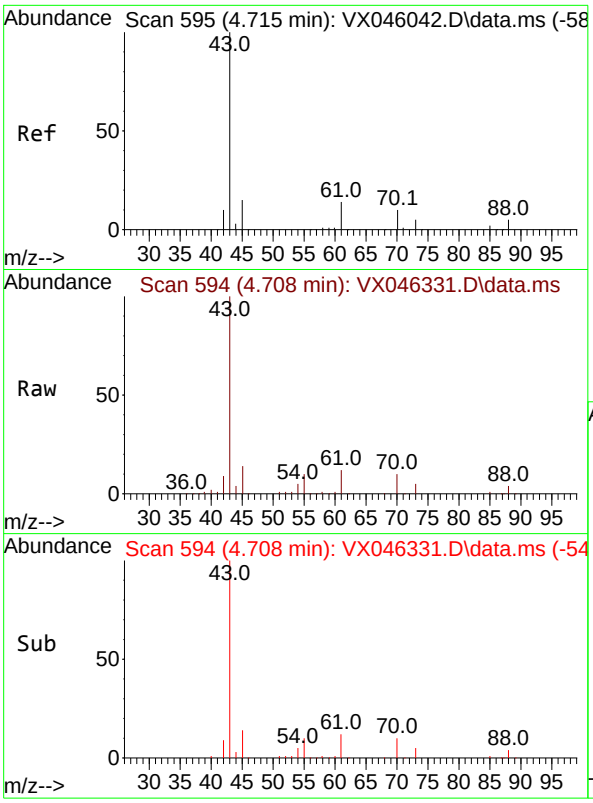



#36
1,1-Dichloropropene
Concen: 48.349 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 72479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 32.3 | 16.3 | 48.9 |
| 77 | 30.3 | 24.3 | 36.5 |

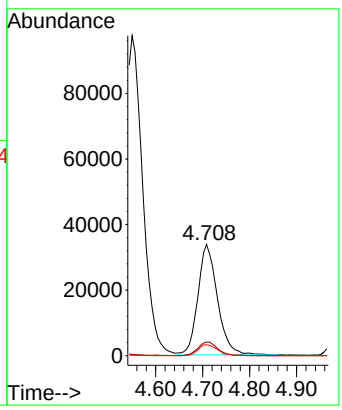





#37
Ethyl Acetate
Concen: 52.723 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 9764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 12.5 | 10.3 | 15.5 |
| 70 | 9.9 | 7.9 | 11.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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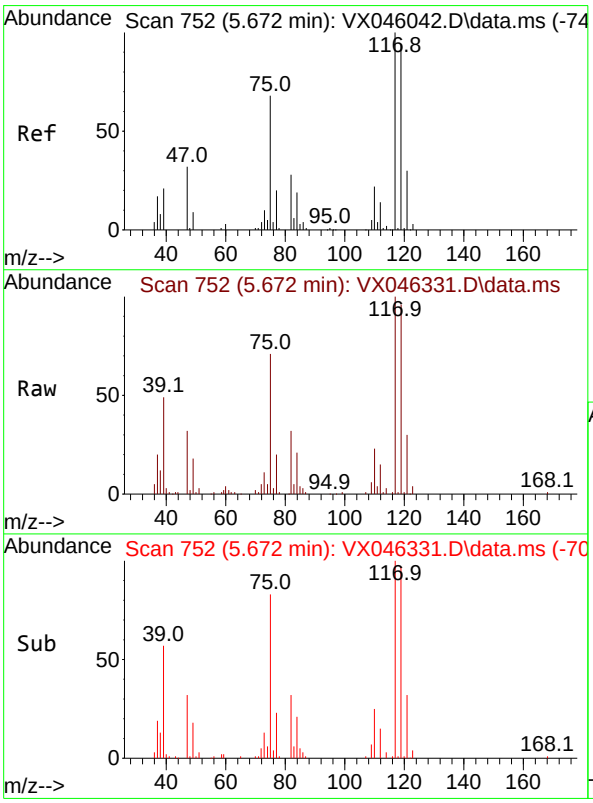
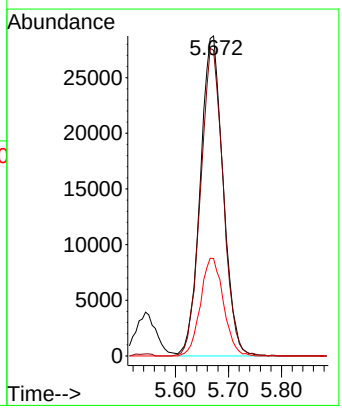
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

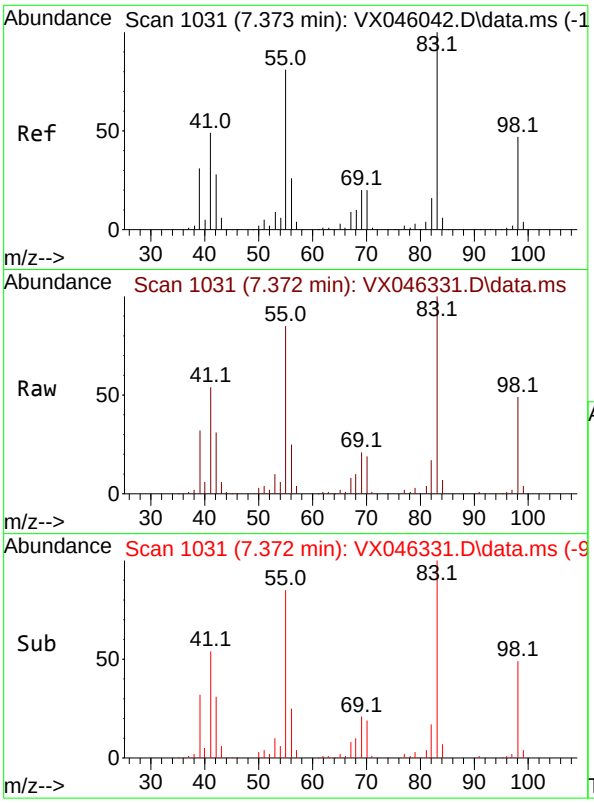



#38
Carbon Tetrachloride
Concen: 50.709 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:117 Resp: 85412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.5 | 75.2 | 112.8 |
| 121 | 30.4 | 24.2 | 36.4 |

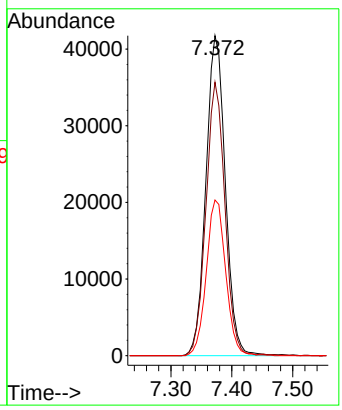





#39
Methylcyclohexane
Concen: 47.954 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 83 Resp: 9254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 85.5 | 64.7 | 97.1 |
| 98 | 48.7 | 37.4 | 56.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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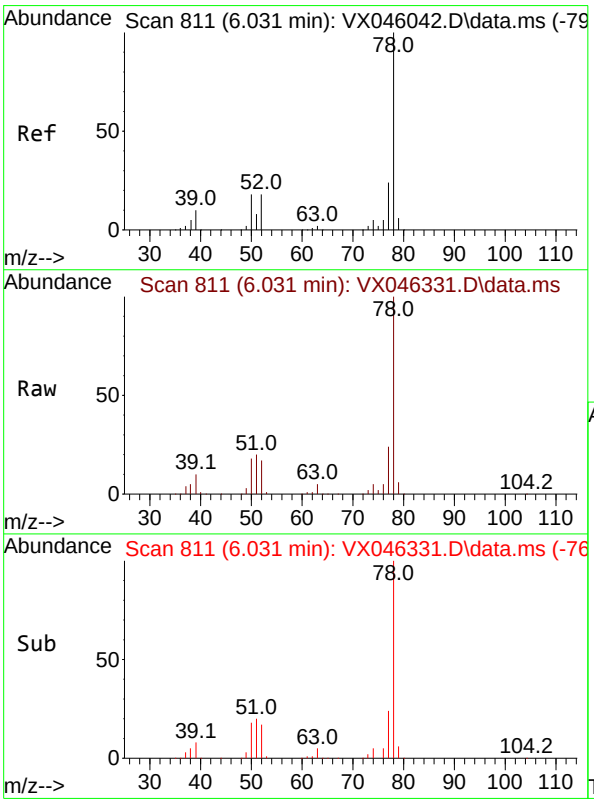
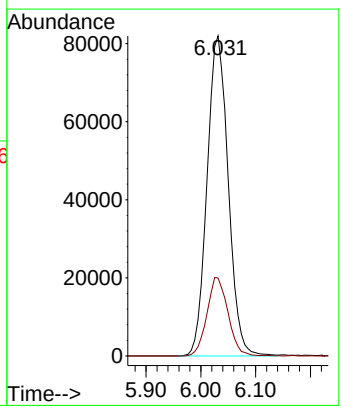
Supervised By :Mahesh Dadoda 05/26/2025

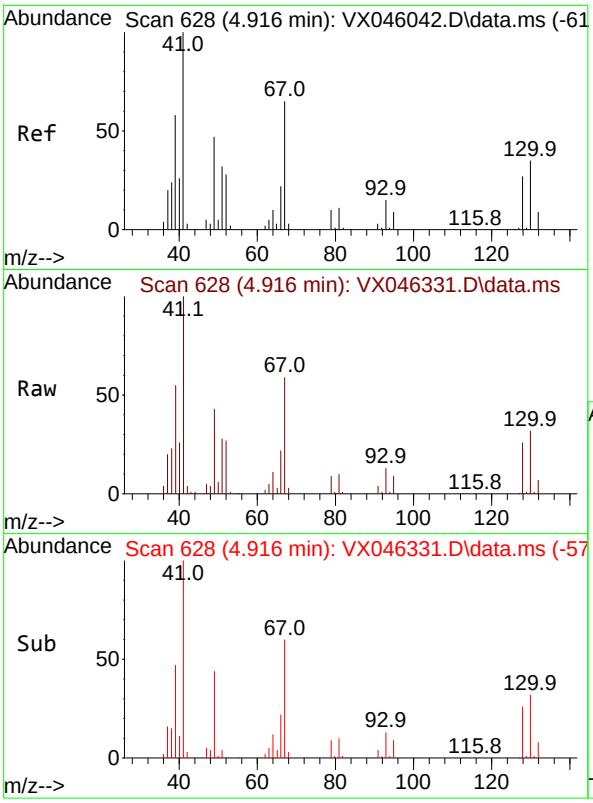



#40
Benzene
Concen: 50.133 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 78 Resp: 220133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.4 | 19.0 | 28.4 |

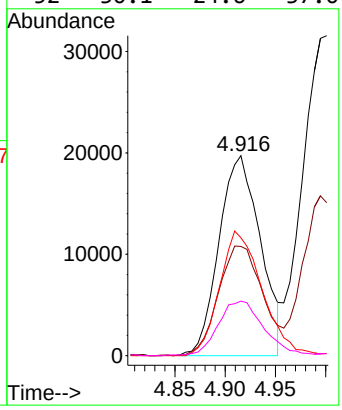





#41
Methacrylonitrile
Concen: 58.302 ug/l m
RT: 4.916 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 41 Resp: 5648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 59.4 | 47.2 | 70.8 |
| 67 | 64.1 | 50.7 | 76.1 |
| 52 | 30.1 | 24.6 | 37.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

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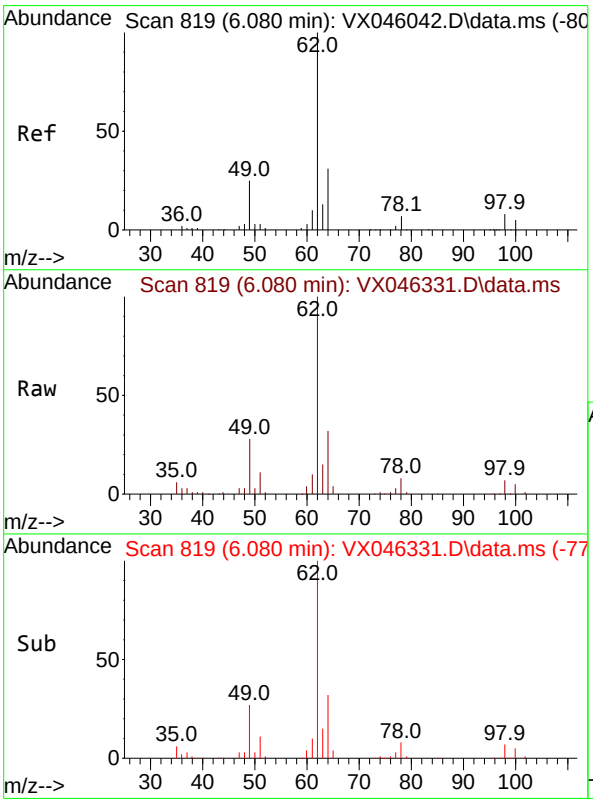
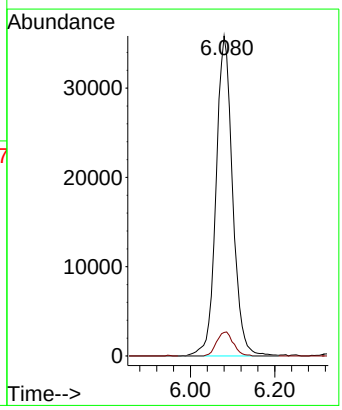
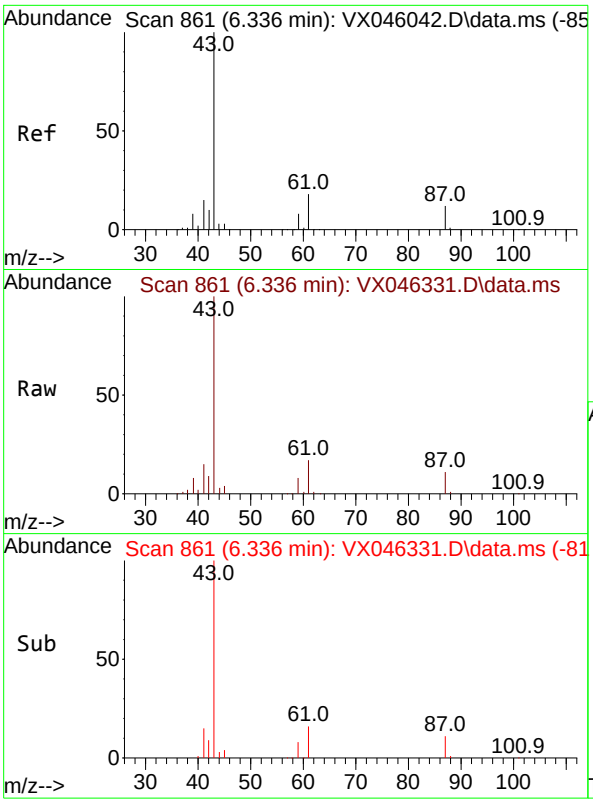



#42
1,2-Dichloroethane
Concen: 51.375 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 62 Resp: 97361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.6 | 0.0 | 15.2 |






#43
Isopropyl Acetate
Concen: 55.999 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 15822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 17.6 | 14.3 | 21.5 |
| 87 | 11.6 | 9.5 | 14.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

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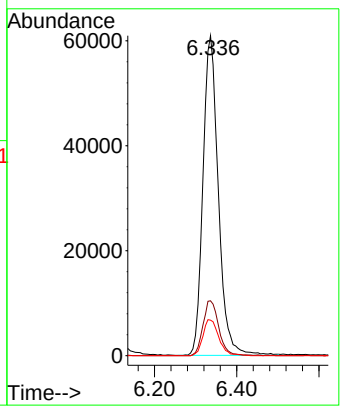
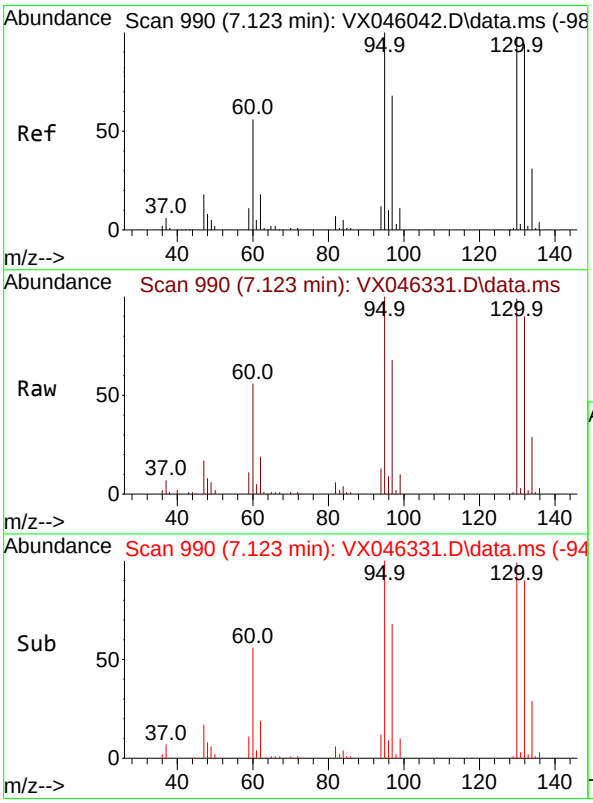
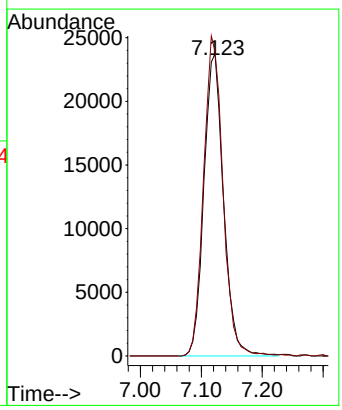


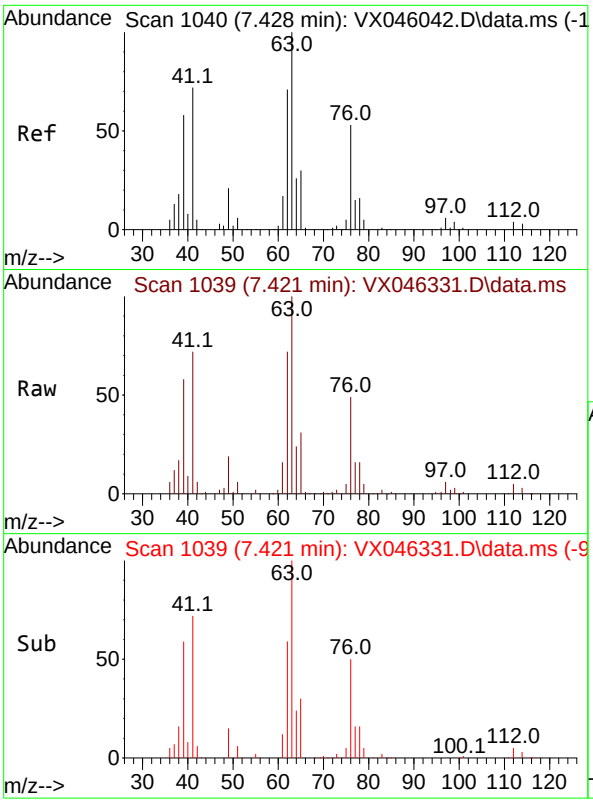




#44
Trichloroethene
Concen: 50.279 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:130 Resp: 53136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.8 | 0.0 | 204.2 |

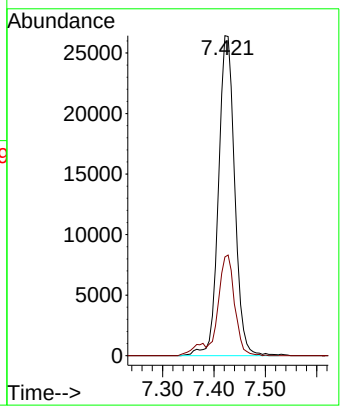





#45
1,2-Dichloropropane
Concen: 53.136 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 63 Resp: 5801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.8 | 24.1 | 36.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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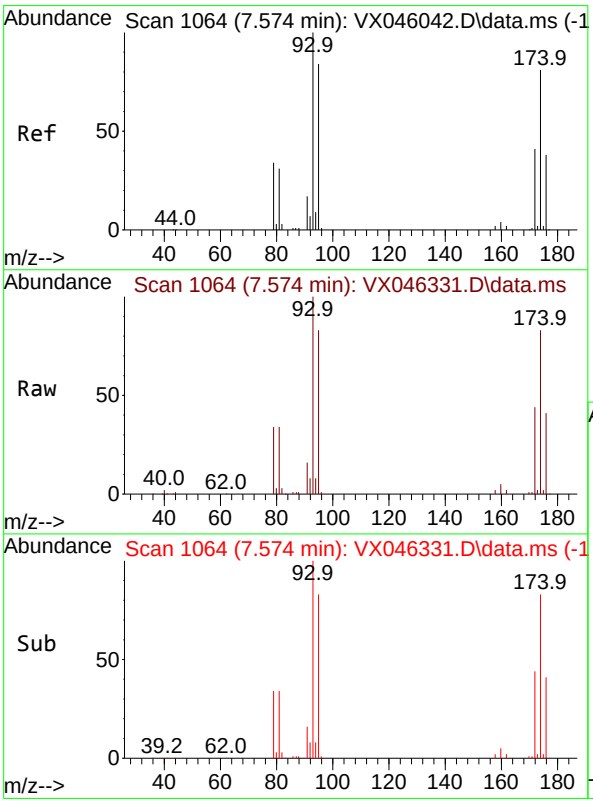
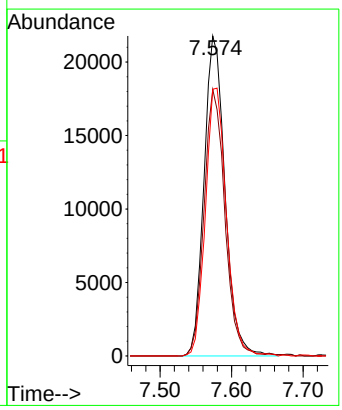
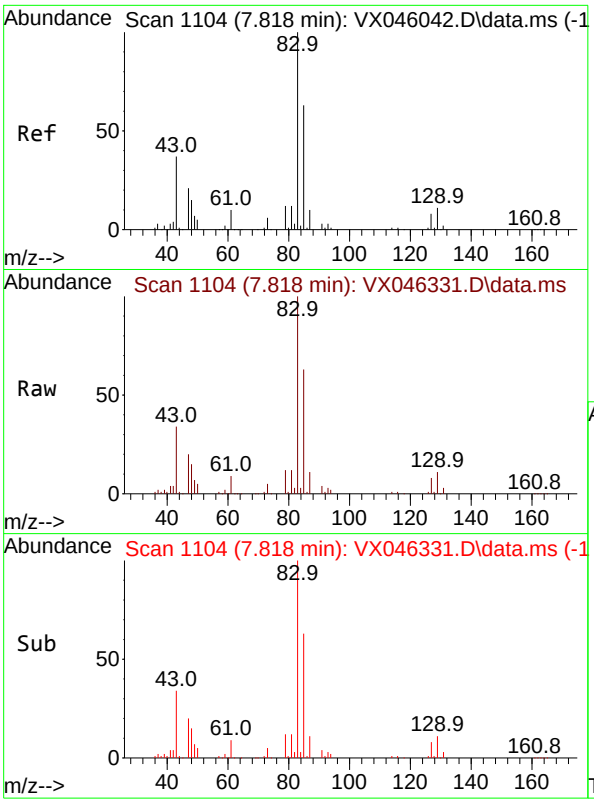



#46
Dibromomethane
Concen: 51.454 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 93 Resp: 44309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.7 | 65.6 | 98.4 |
| 174 | 84.2 | 68.2 | 102.2 |

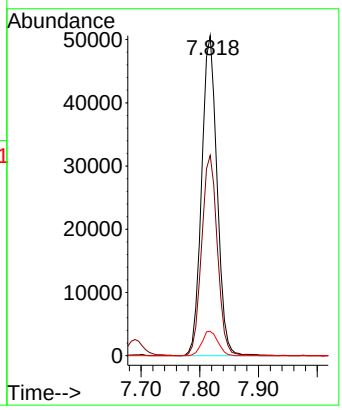





#47
Bromodichloromethane
Concen: 54.392 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 83 Resp: 9225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.6 | 50.5 | 75.7 |
| 127 | 7.6 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
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VSTDCCC050

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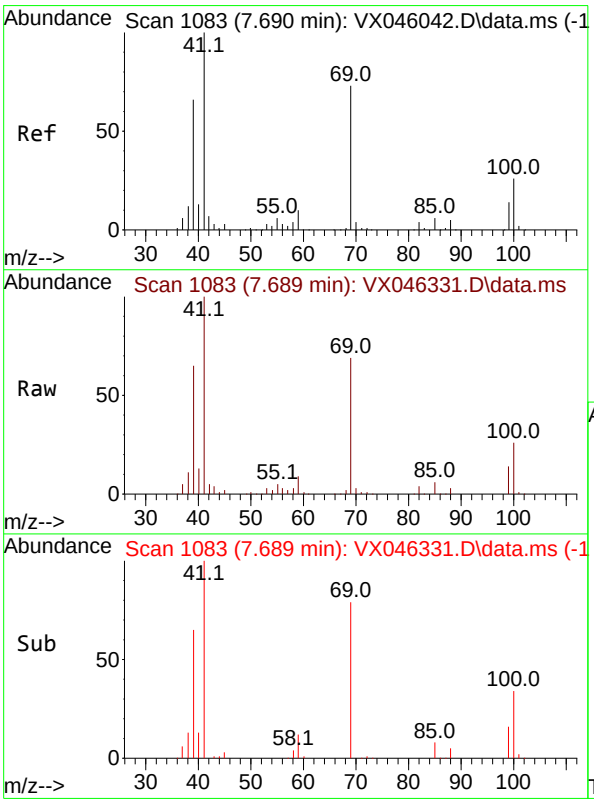
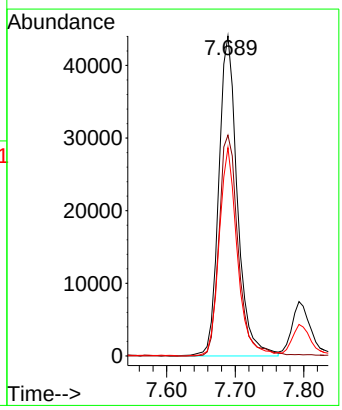
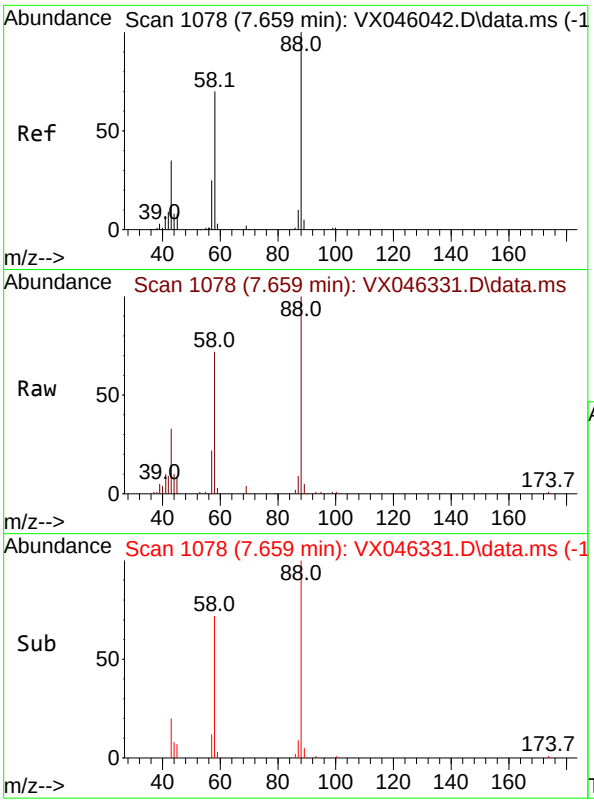



#48
Methyl methacrylate
Concen: 57.467 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 41 Resp: 82925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 72.0 | 58.5 | 87.7 |
| 39 | 63.5 | 51.7 | 77.5 |

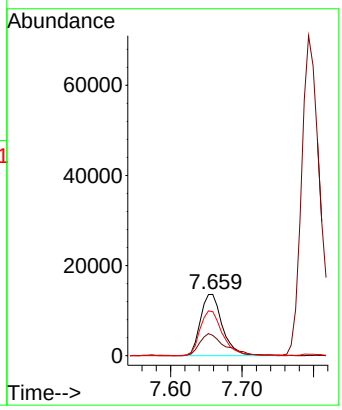





#49
1,4-Dioxane
Concen: 1053.147 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 88 Resp: 2885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 42.3 | 33.4 | 50.2 |
| 58 | 74.9 | 58.6 | 88.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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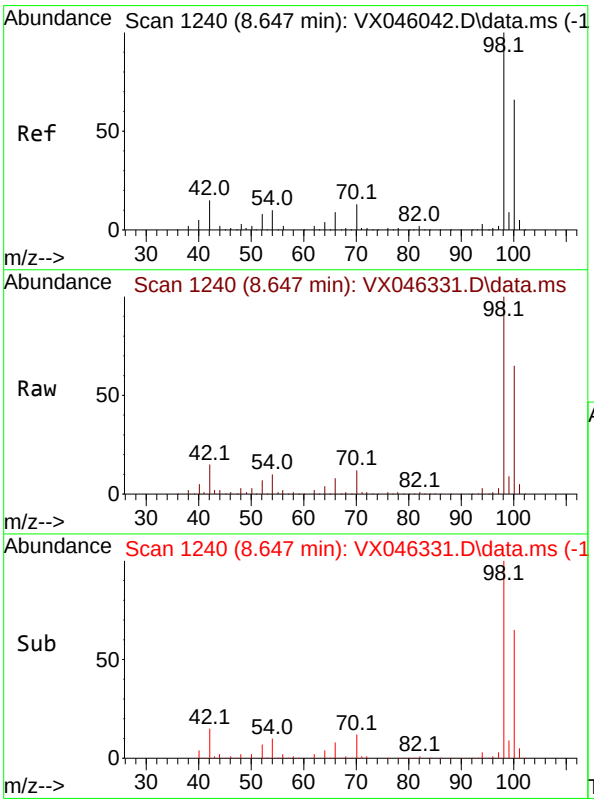
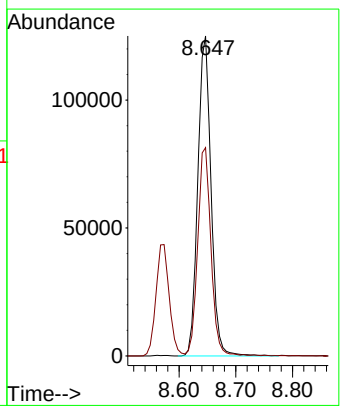
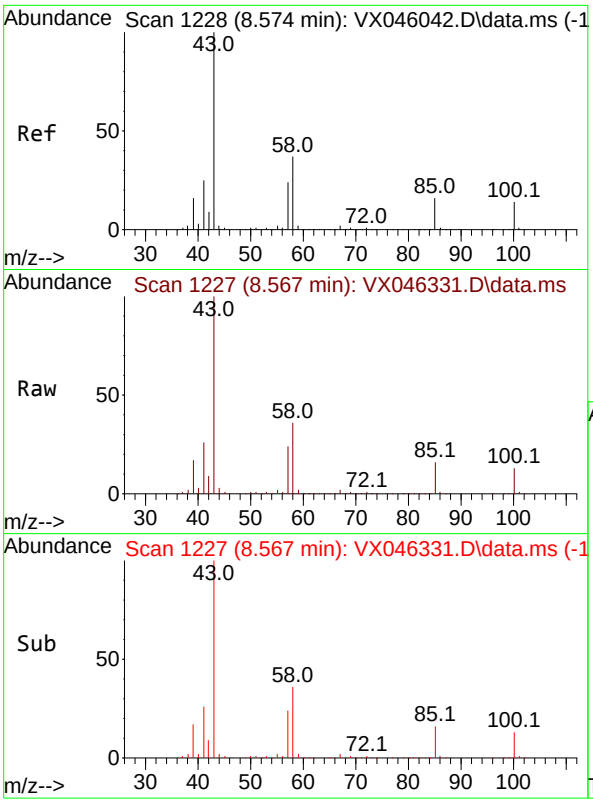



#50
Toluene-d8
Concen: 52.423 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 98 Resp: 202439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.6 | 53.5 | 80.3 |

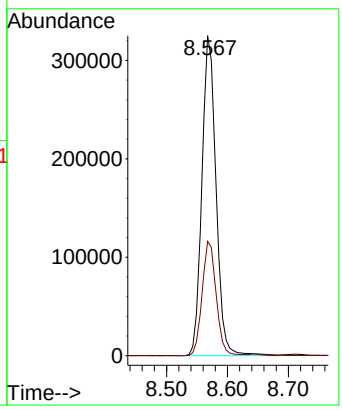





#51
4-Methyl-2-Pentanone
Concen: 279.753 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 52468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.5 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

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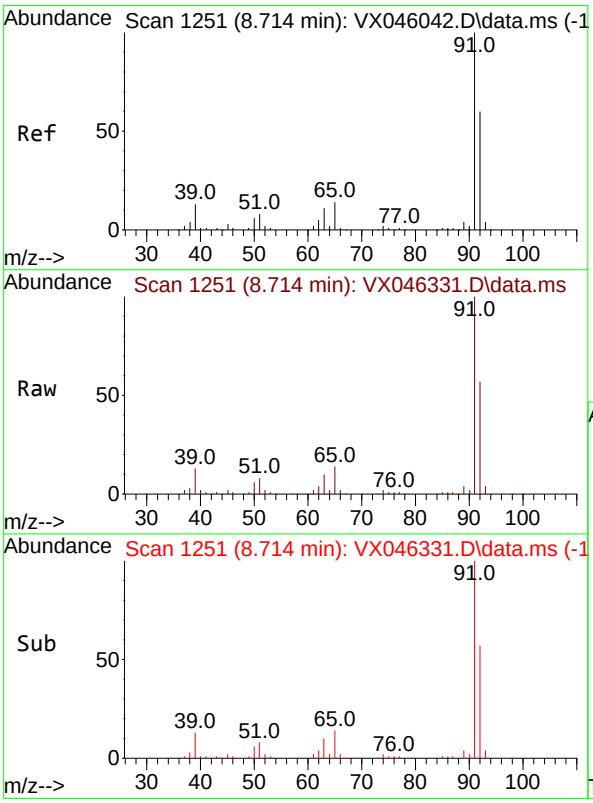
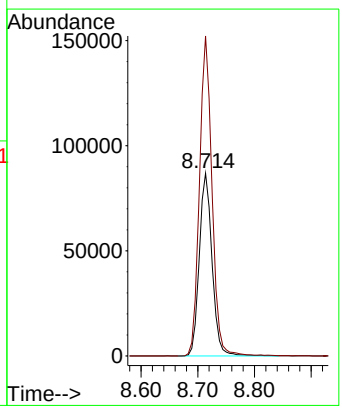
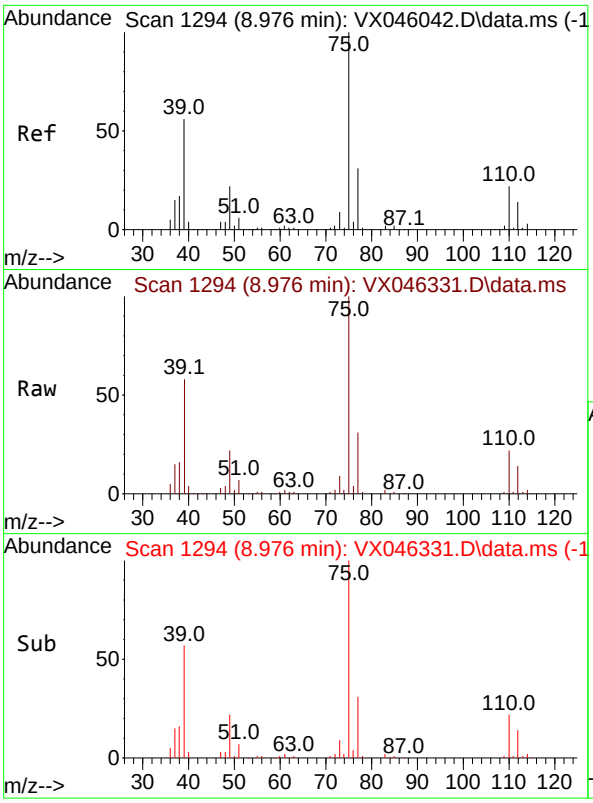



#52
Toluene
Concen: 50.537 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 92 Resp: 136068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.1 | 136.6 | 205.0 |

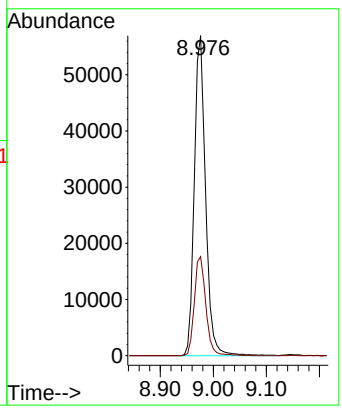





#53
t-1,3-Dichloropropene
Concen: 55.750 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 8404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.9 | 25.0 | 37.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

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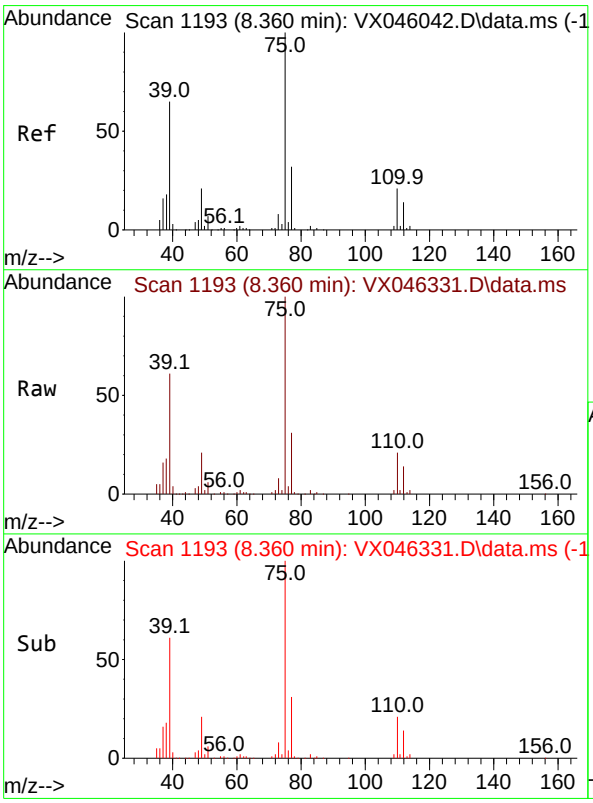
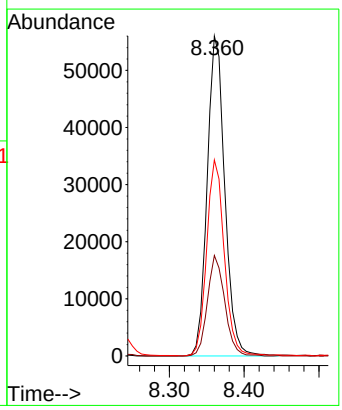
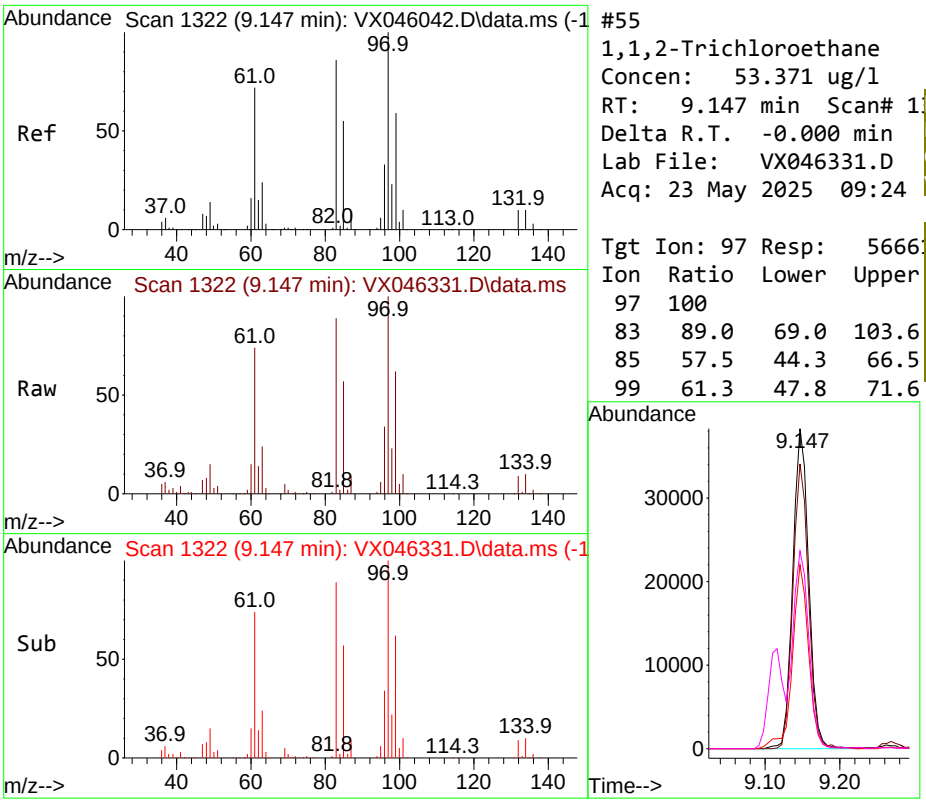



#54
cis-1,3-Dichloropropene
Concen: 54.982 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 91612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.4 | 38.0 |
| 39 | 61.1 | 52.2 | 78.4 |






#55
1,1,2-Trichloroethane
Concen: 53.371 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 97 Resp: 5666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.0 | 69.0 | 103.6 |
| 85 | 57.5 | 44.3 | 66.5 |
| 99 | 61.3 | 47.8 | 71.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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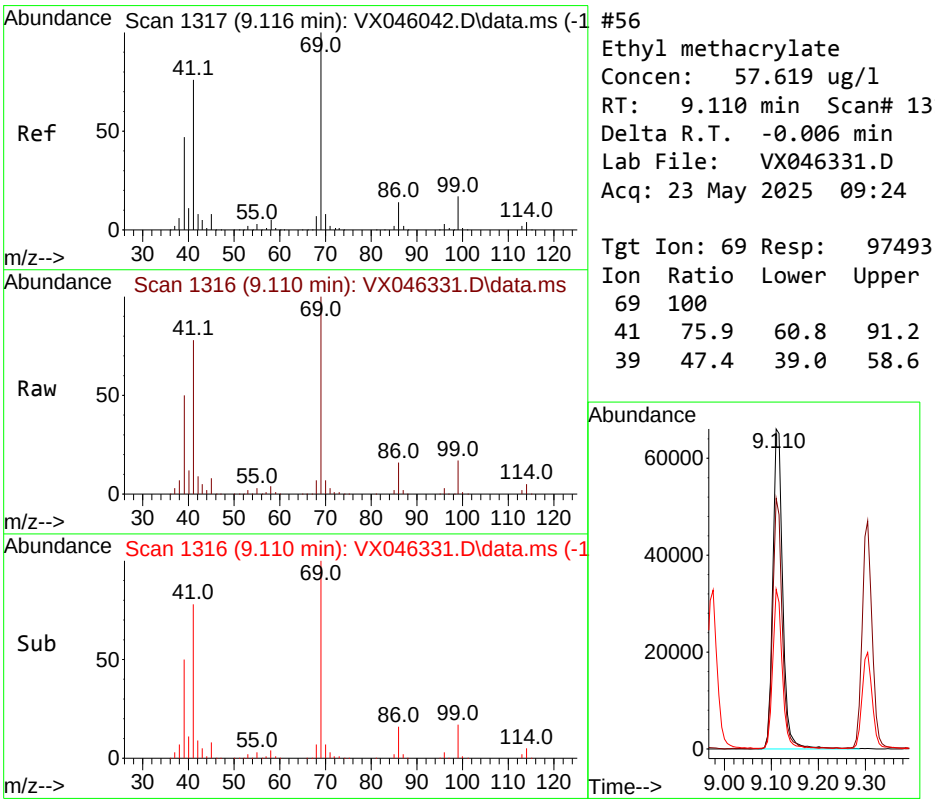
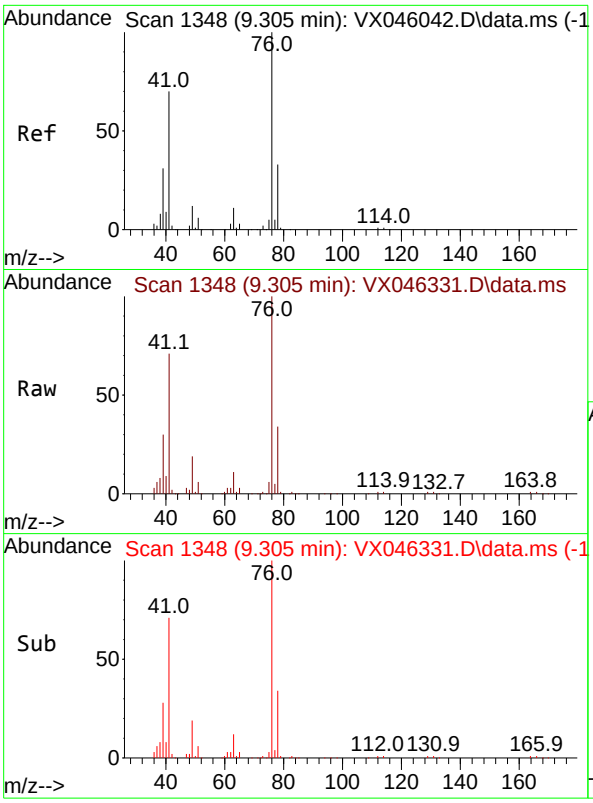
Supervised By :Mahesh Dadoda 05/26/2025




#56
Ethyl methacrylate
Concen: 57.619 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 69 Resp: 97493

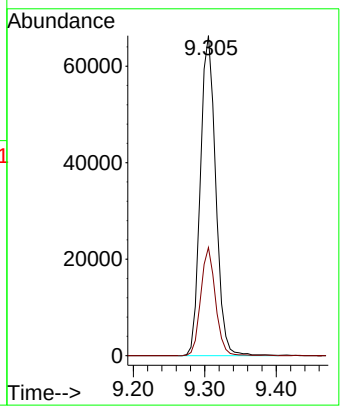
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 75.9 | 60.8 | 91.2 |
| 39 | 47.4 | 39.0 | 58.6 |




#57
1,3-Dichloropropane
Concen: 51.895 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 76 Resp: 9894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.4 | 26.3 | 39.5 |




**Instrument :**
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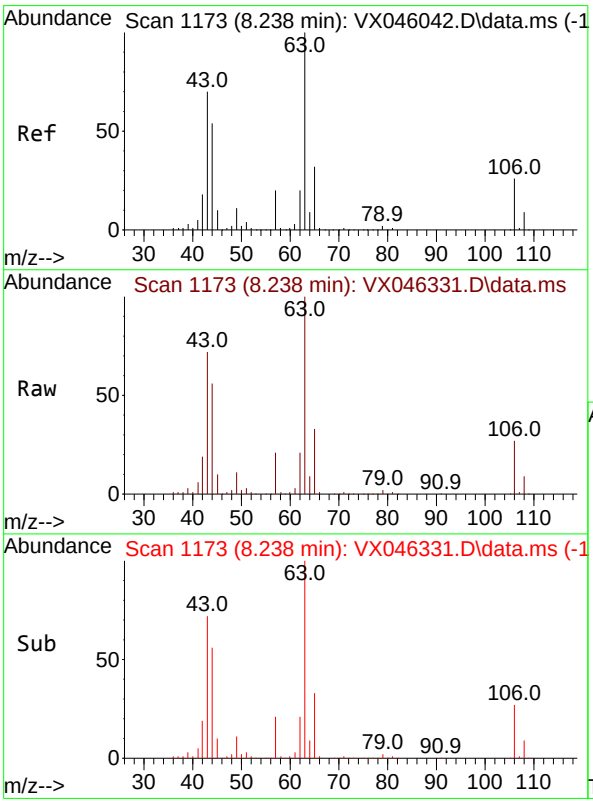
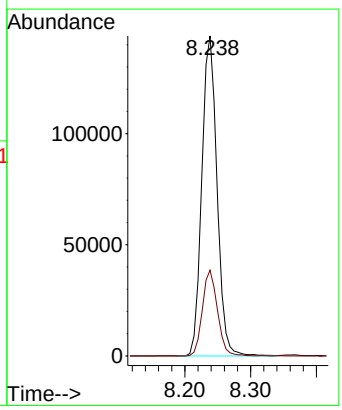
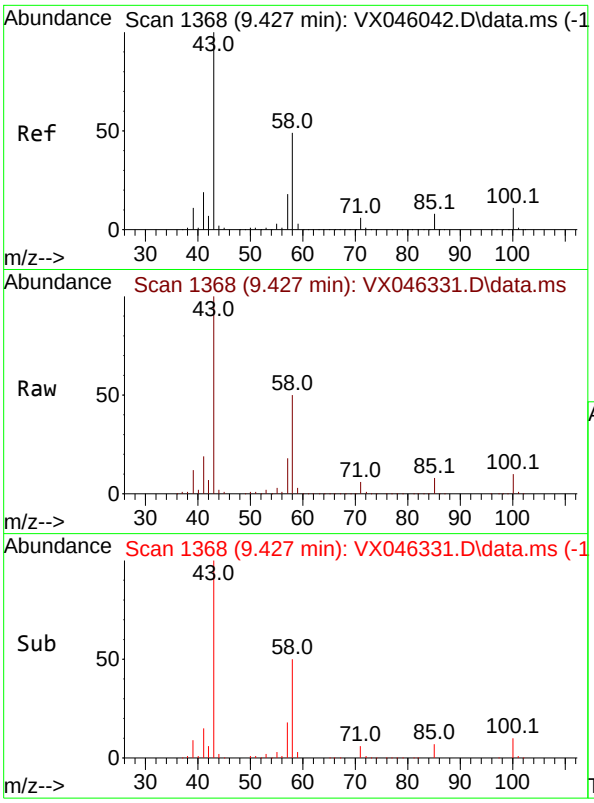



#58
2-Chloroethyl Vinyl ether
Concen: 268.416 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 63 Resp: 231542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.5 | 21.5 | 32.3 |

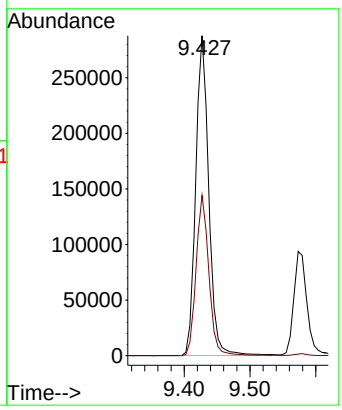





#59
2-Hexanone
Concen: 285.172 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 39570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.5 | 24.9 | 74.6 |




**Instrument :**
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**ClientSampleId :**
VSTDCCC050

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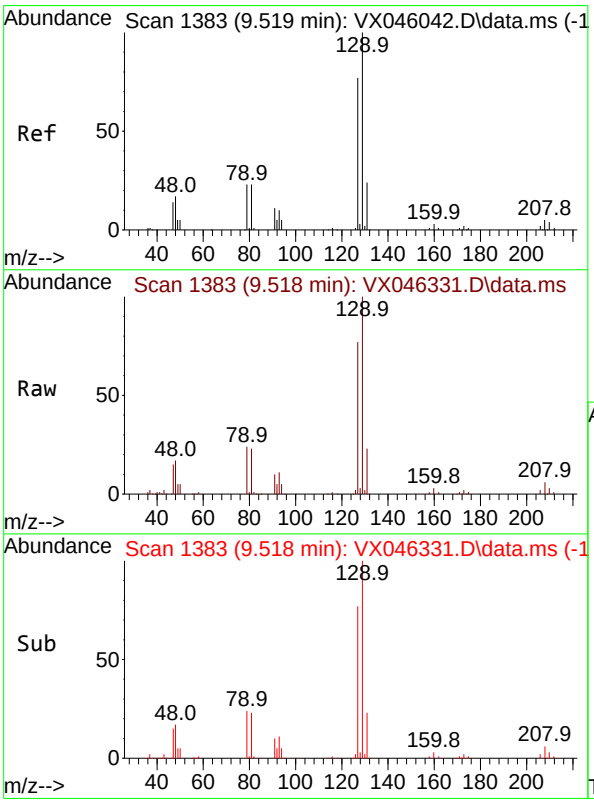
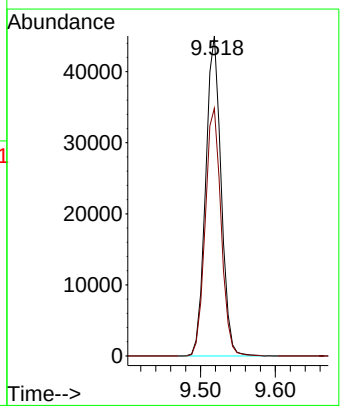
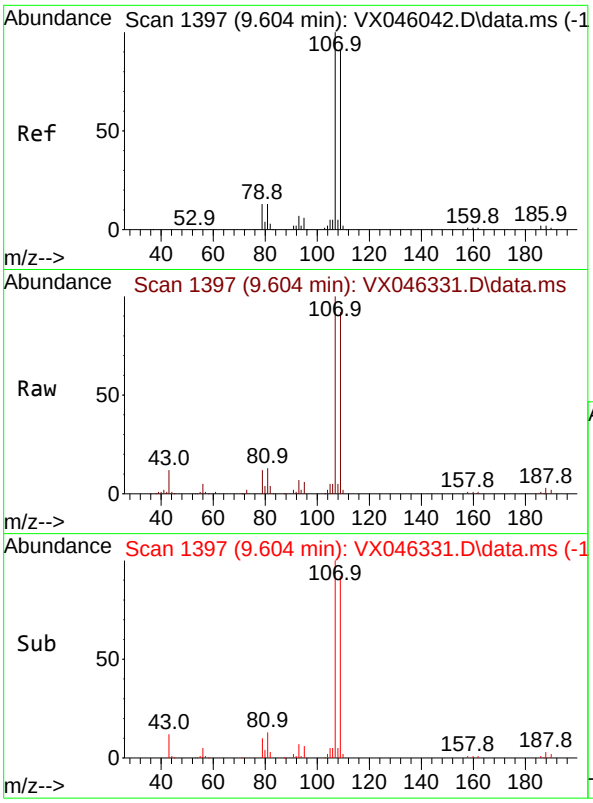



#60
Dibromochloromethane
Concen: 55.399 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:129 Resp: 64591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 79.4 | 39.3 | 117.8 |

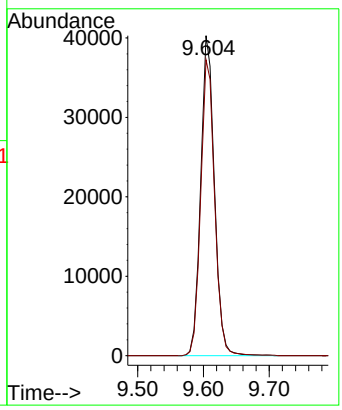





#61
1,2-Dibromoethane
Concen: 52.931 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:107 Resp: 5840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.9 | 73.3 | 109.9 |




**Instrument :**
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**ClientSampleId :**
VSTDCCC050

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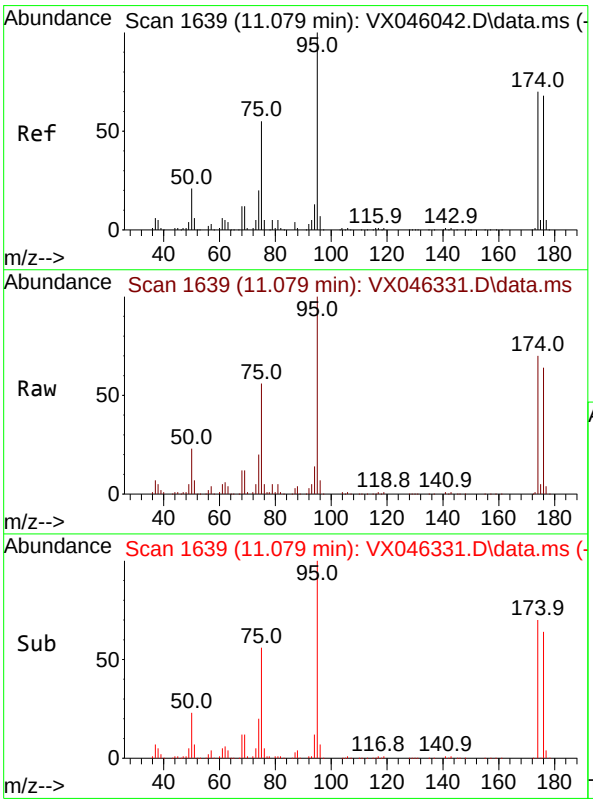
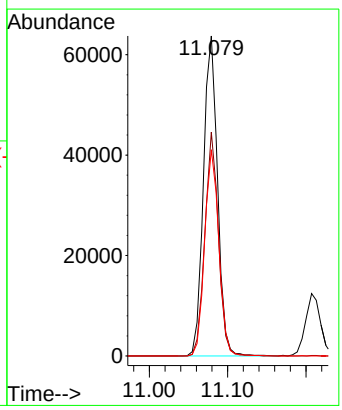
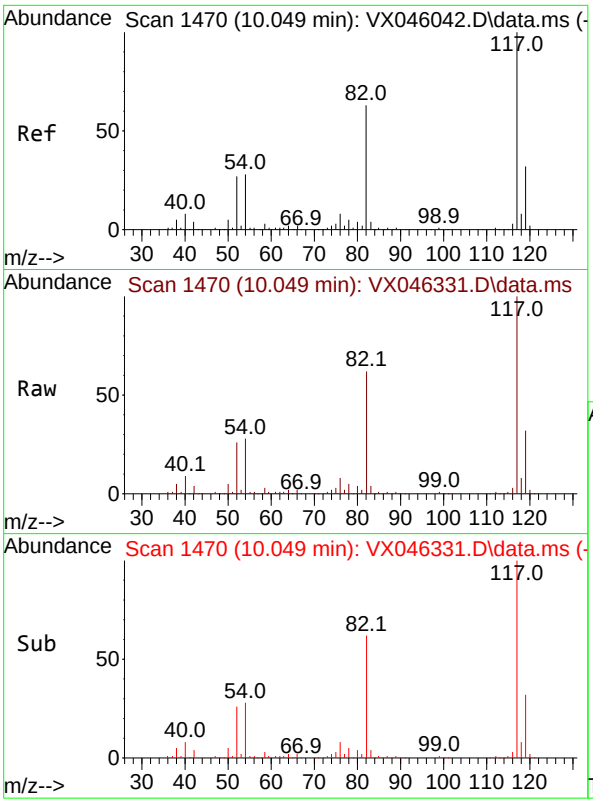



#62
4-Bromofluorobenzene
Concen: 53.716 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 95 Resp: 79568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.3 | 0.0 | 135.8 |
| 176 | 64.6 | 0.0 | 131.4 |

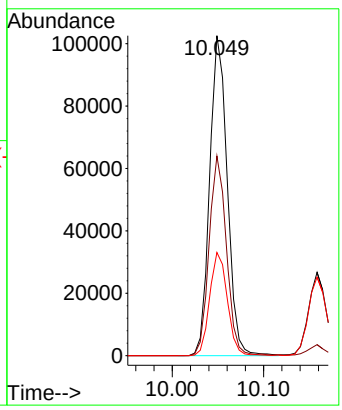





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:117 Resp: 13712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 62.4 | 50.6 | 76.0 |
| 119 | 32.2 | 25.8 | 38.6 |




**Instrument :**
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VSTDCCC050

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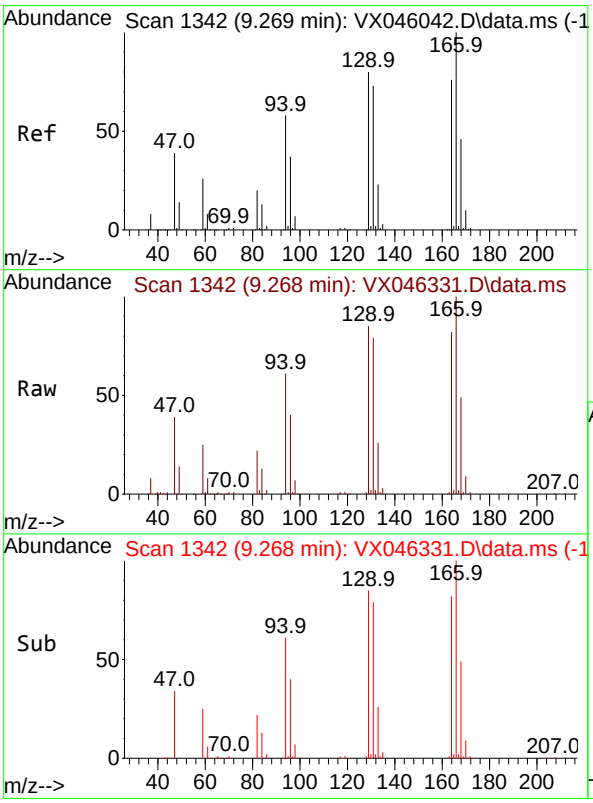
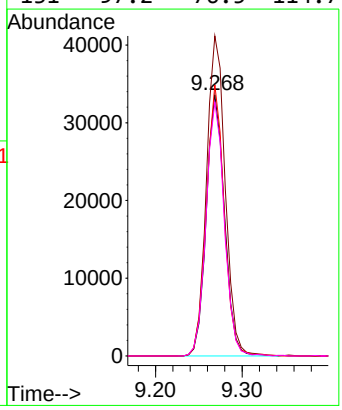
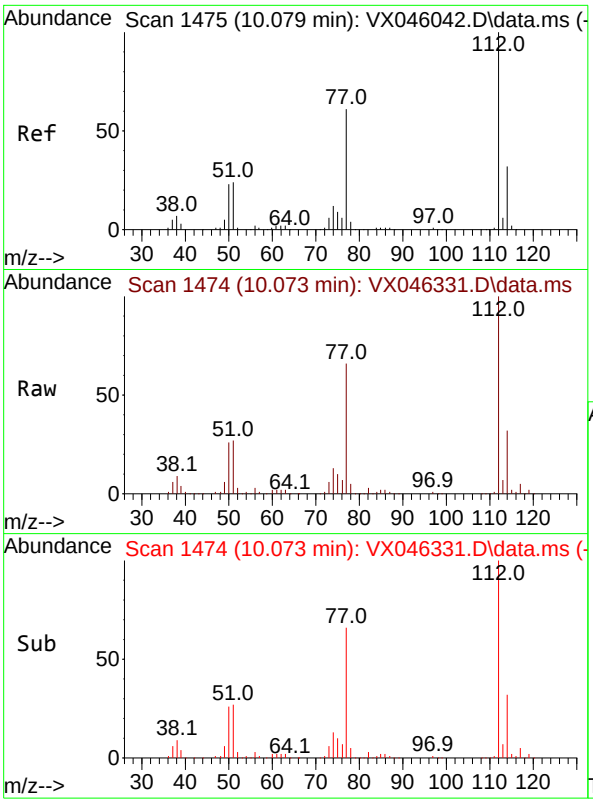



#64
Tetrachloroethene
Concen: 50.481 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:164 Resp: 48977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.6 | 105.0 | 157.6 |
| 129 | 103.9 | 83.5 | 125.3 |
| 131 | 97.2 | 76.5 | 114.7 |

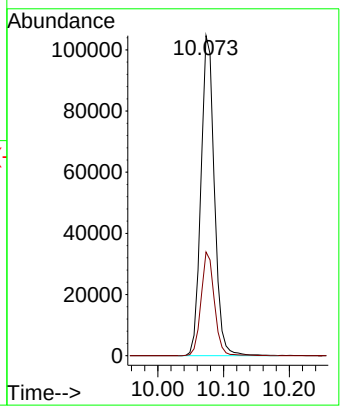





#65
Chlorobenzene
Concen: 49.525 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:112 Resp: 14863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.4 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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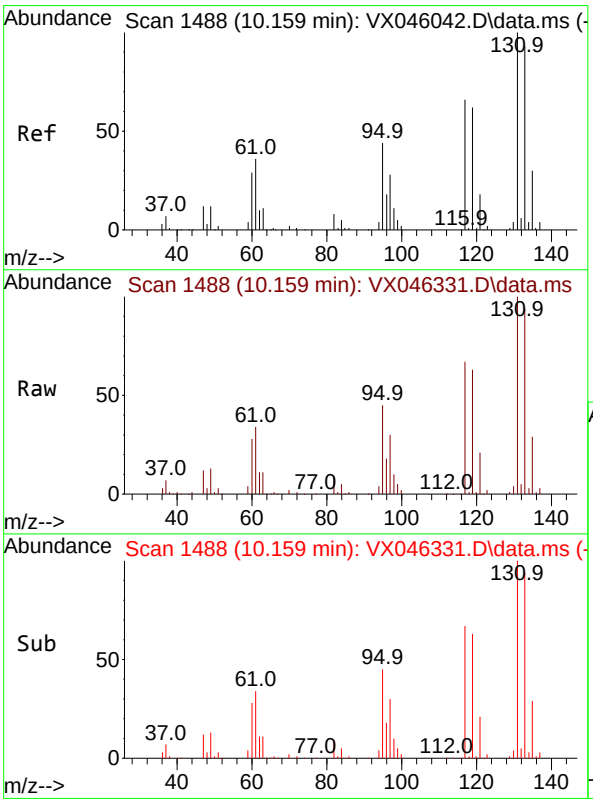
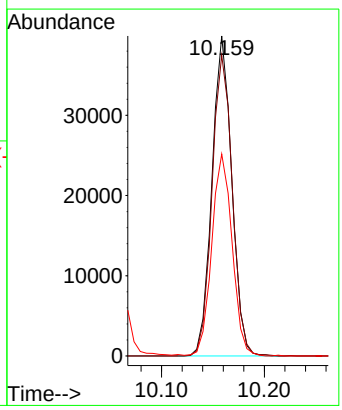
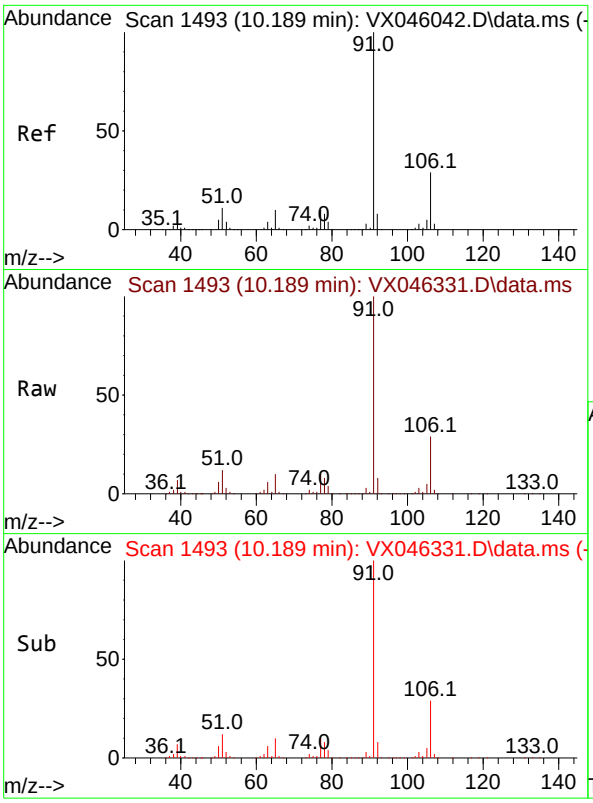



#66
1,1,1,2-Tetrachloroethane
Concen: 52.010 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:131 Resp: 53302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.3 | 47.3 | 141.9 |
| 119 | 64.8 | 31.6 | 95.0 |

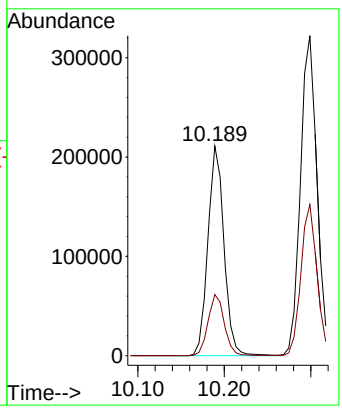





#67
Ethyl Benzene
Concen: 51.457 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 91 Resp: 27223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.2 | 23.4 | 35.2 |




**Instrument :**
MSVOA_X
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VSTDCCC050

**Manual Integrations**
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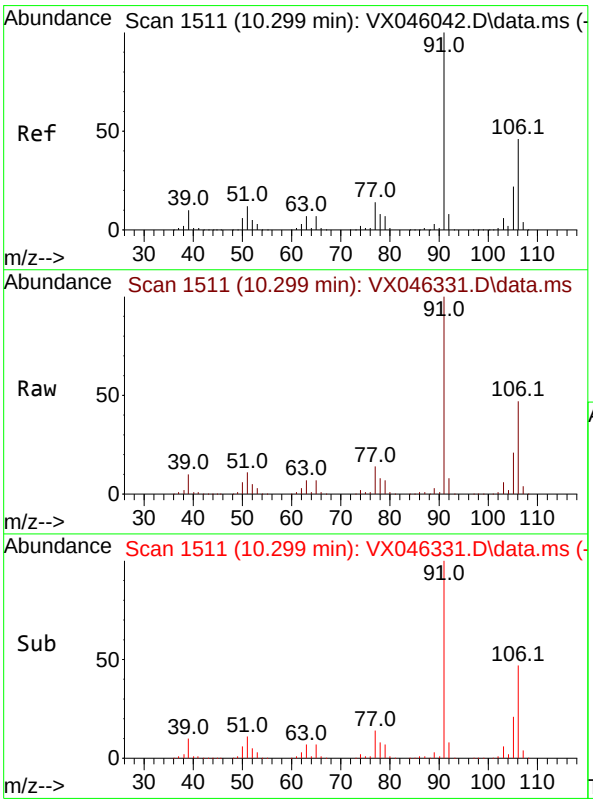
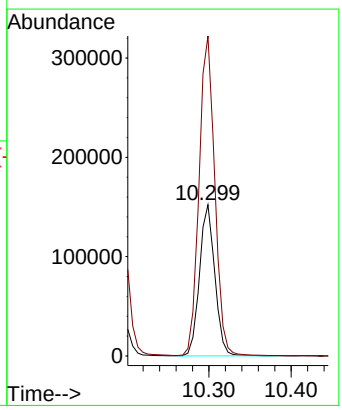
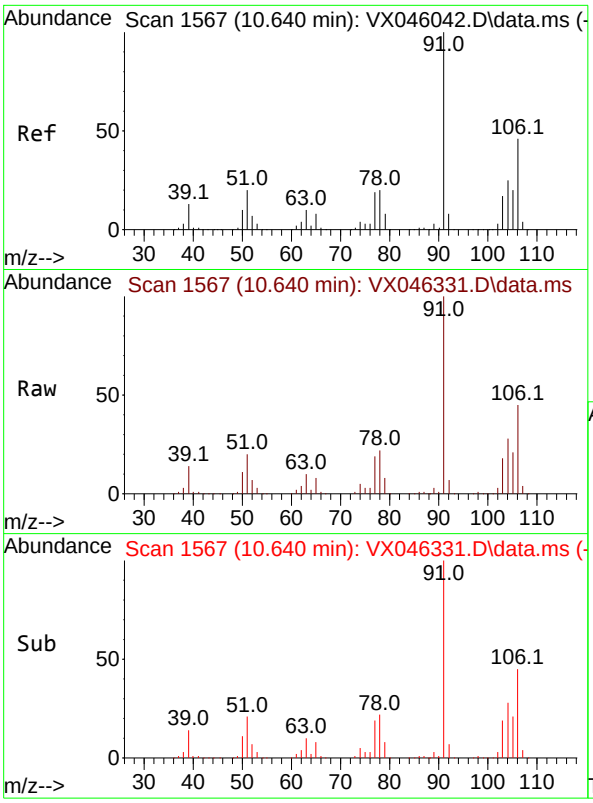



#68
m/p-Xylenes
Concen: 101.954 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:106 Resp: 197275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.8 | 171.2 | 256.8 |

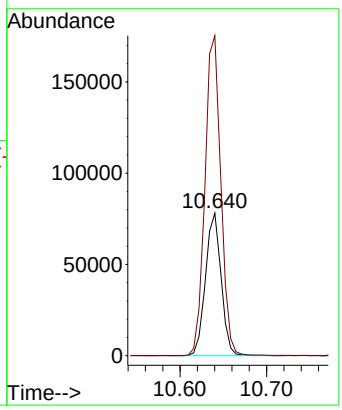





#69
o-Xylene
Concen: 51.899 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:106 Resp: 9790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 229.1 | 112.7 | 338.1 |




**Instrument :**
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VSTDCCC050

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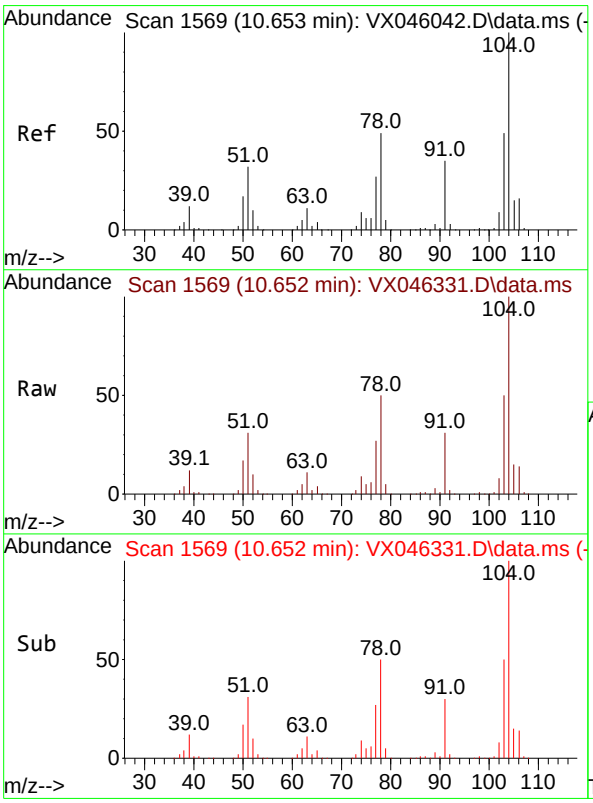
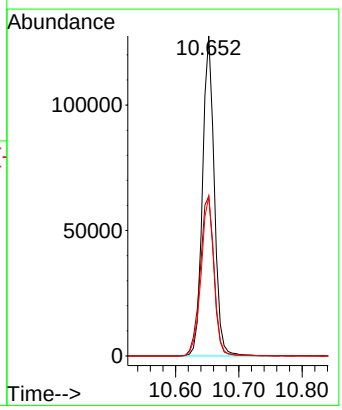
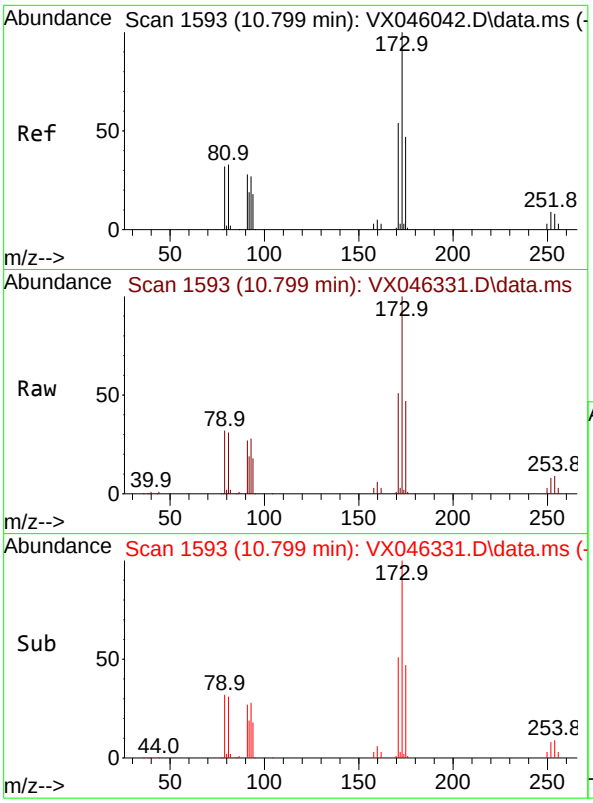



#70
Styrene
Concen: 53.599 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:104 Resp: 165627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 58.1 | 45.7 | 68.5 |
| 103 | 55.3 | 43.7 | 65.5 |

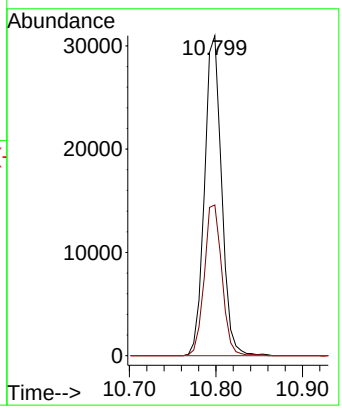





#71
Bromoform
Concen: 55.224 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:173 Resp: 4249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.6 | 23.4 | 70.0 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

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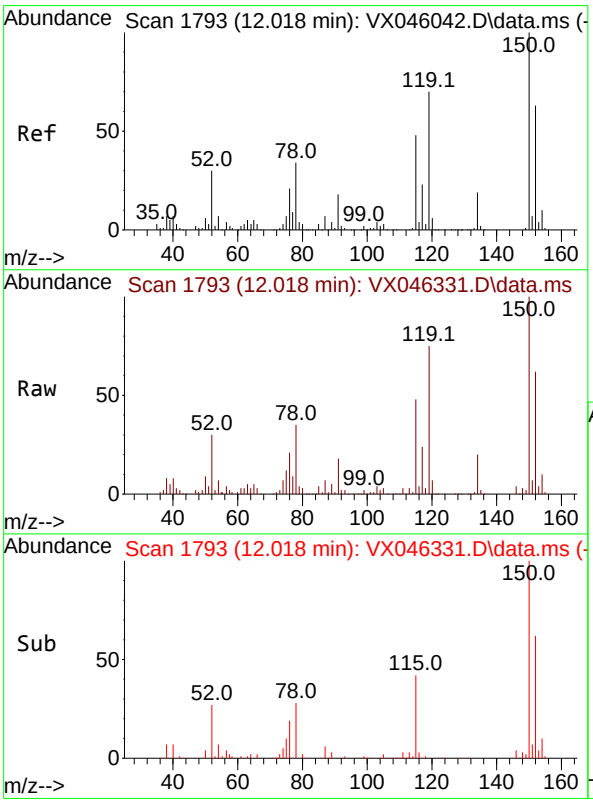
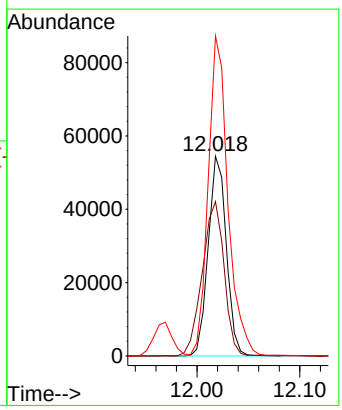
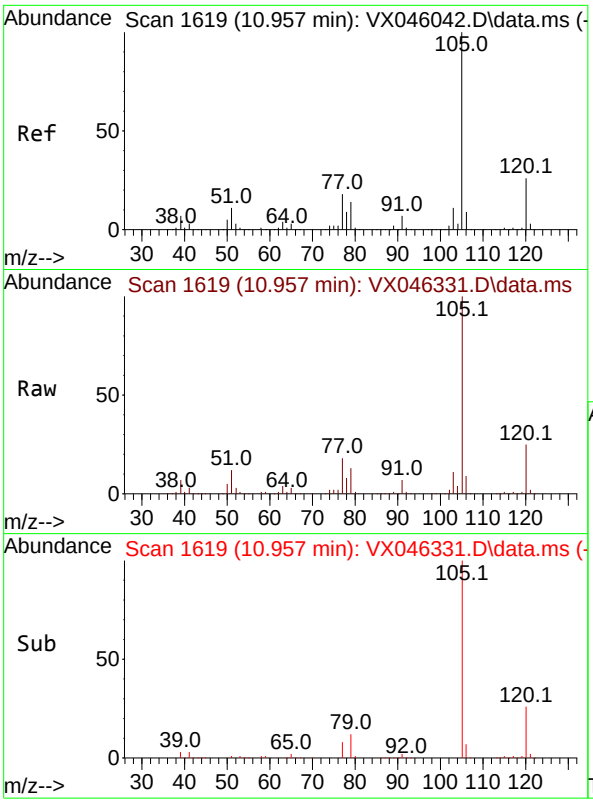



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:152 Resp: 66629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 93.5 | 46.9 | 140.7 |
| 150 | 175.2 | 0.0 | 351.0 |

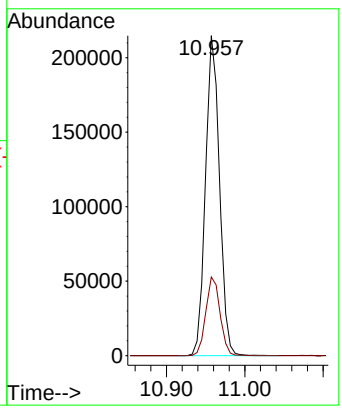





#73
Isopropylbenzene
Concen: 51.196 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:105 Resp: 26556

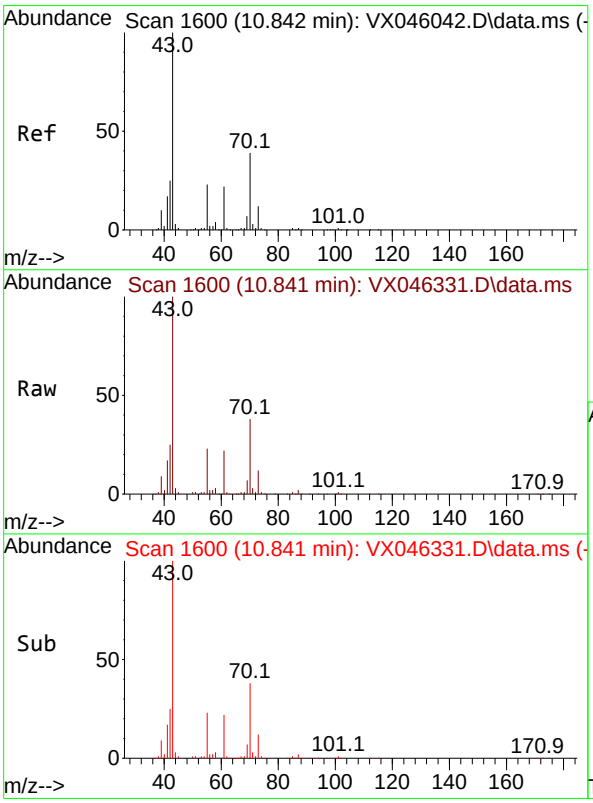
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.0 | 12.8 | 38.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

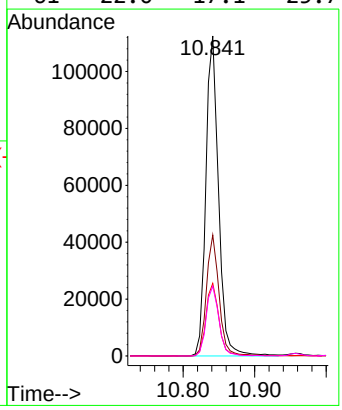
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

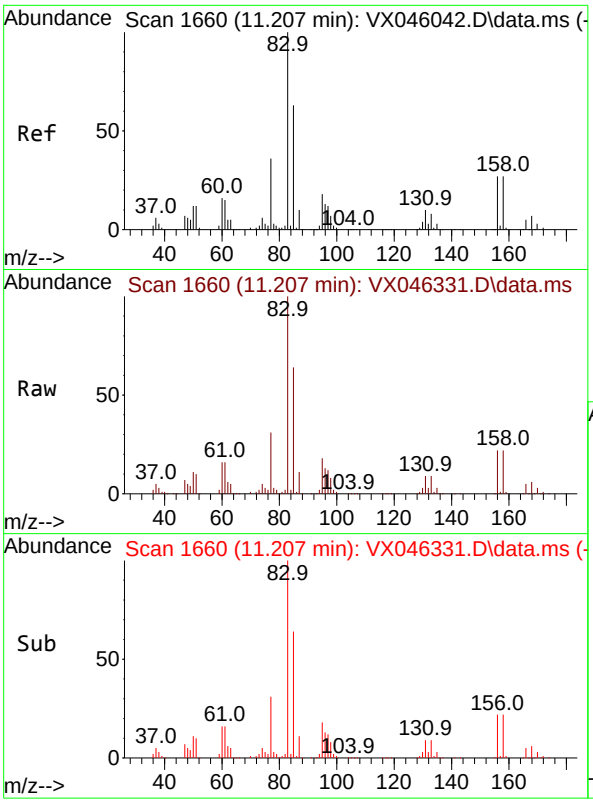



#74
N-amyl acetate
Concen: 54.091 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 138648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 37.7 | 30.9 | 46.3 |
| 55 | 23.4 | 18.7 | 28.1 |
| 61 | 22.0 | 17.1 | 25.7 |

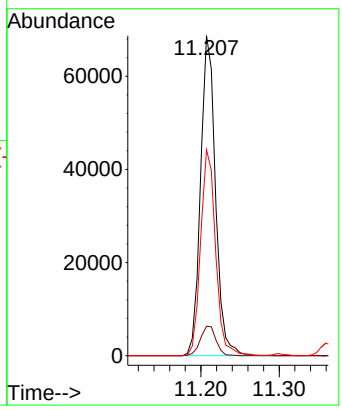





#75
1,1,2,2-Tetrachloroethane
Concen: 50.066 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 83 Resp: 9101

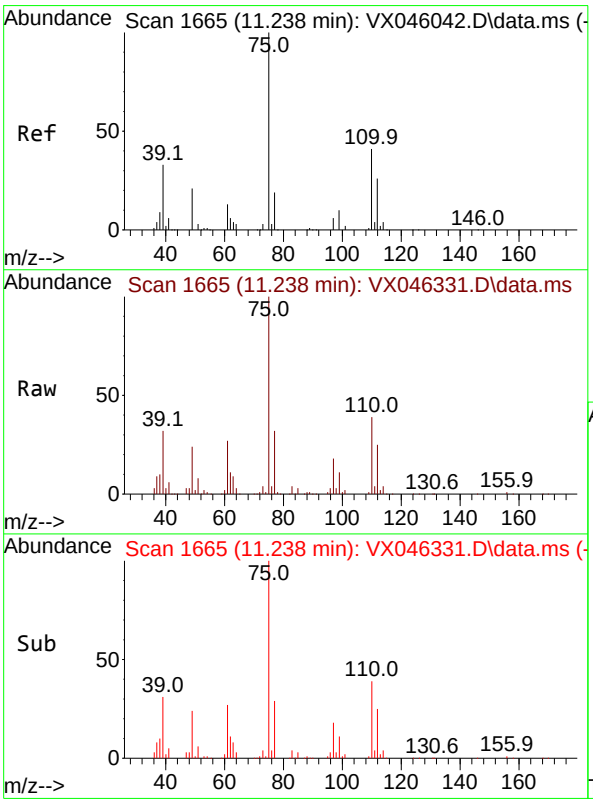
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 5.0 | 14.9 |
| 85 | 64.5 | 31.9 | 95.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

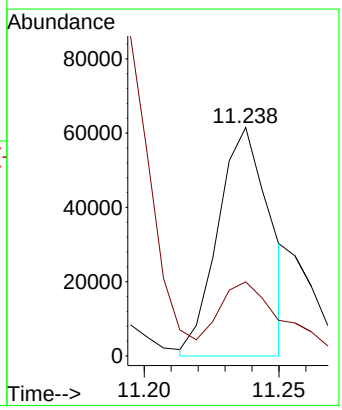
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

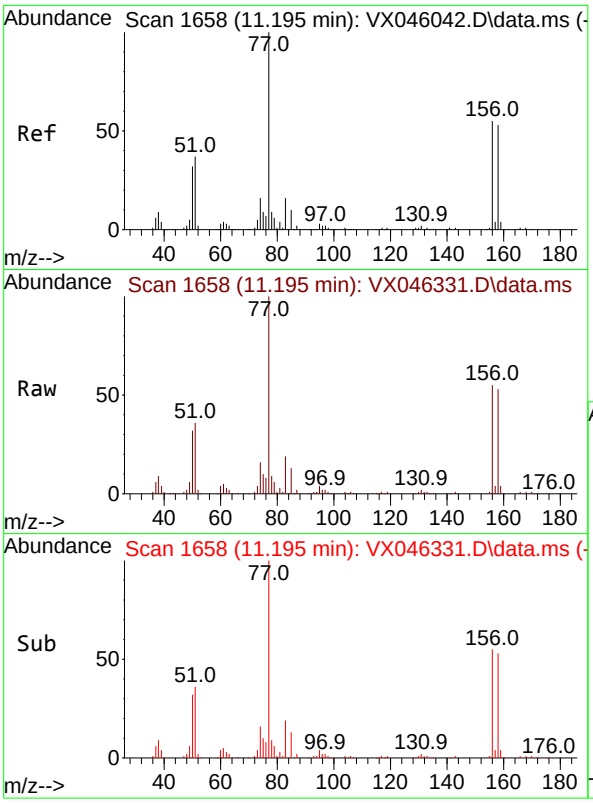



#76
1,2,3-Trichloropropane
Concen: 51.027 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 81837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 40.8 | 20.5 | 61.5 |

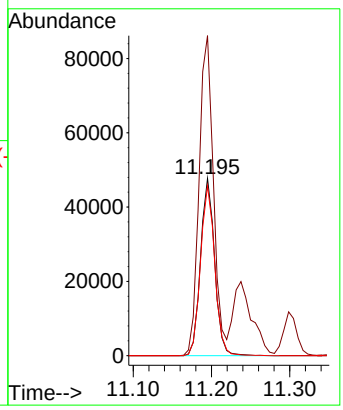





#77
Bromobenzene
Concen: 49.441 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:156 Resp: 5954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 185.1 | 92.8 | 278.3 |
| 158 | 97.2 | 48.8 | 146.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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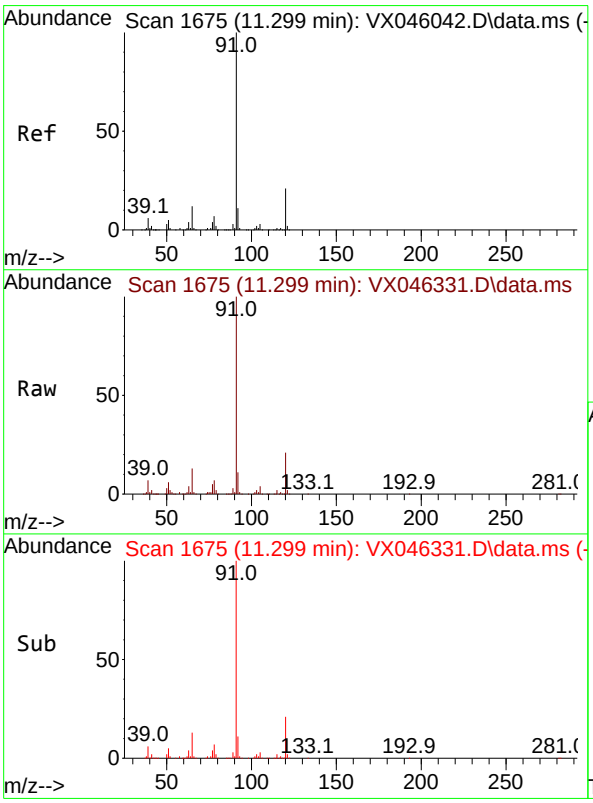
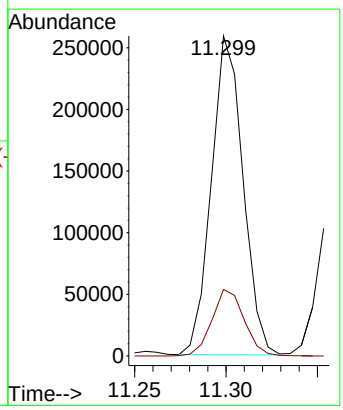
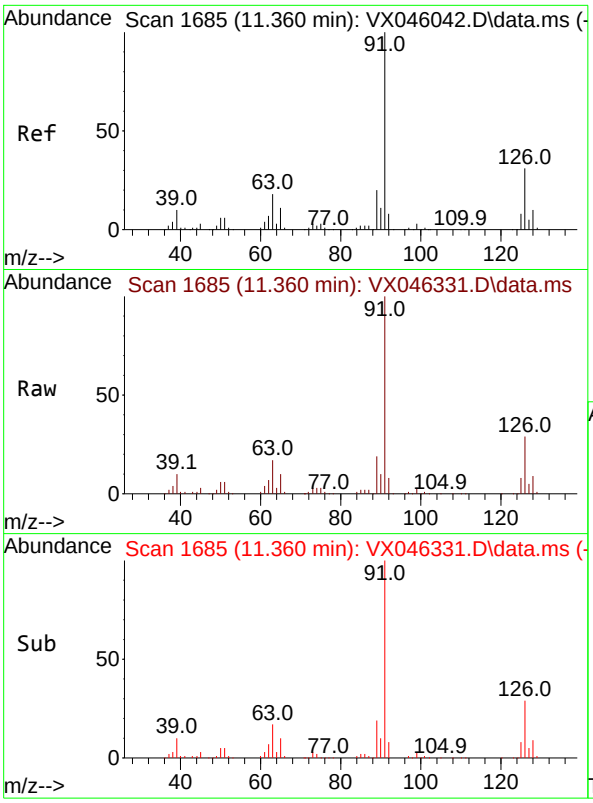



#78
n-propylbenzene
Concen: 51.673 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 91 Resp: 311660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.2 | 10.8 | 32.4 |






#79
2-Chlorotoluene
Concen: 49.128 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 91 Resp: 19112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.8 | 15.6 | 46.7 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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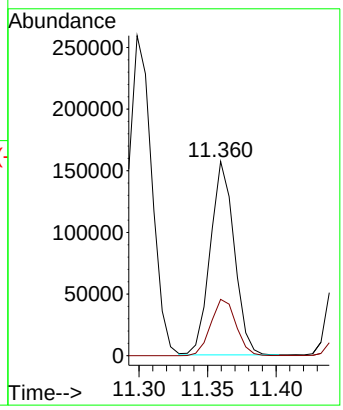
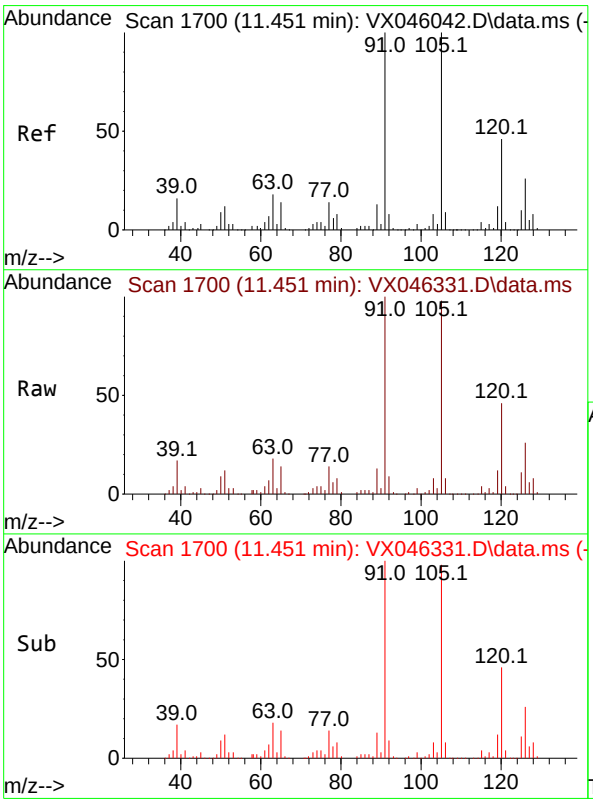
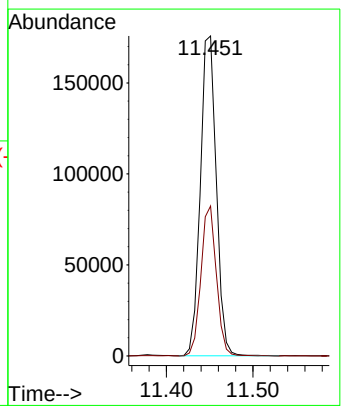


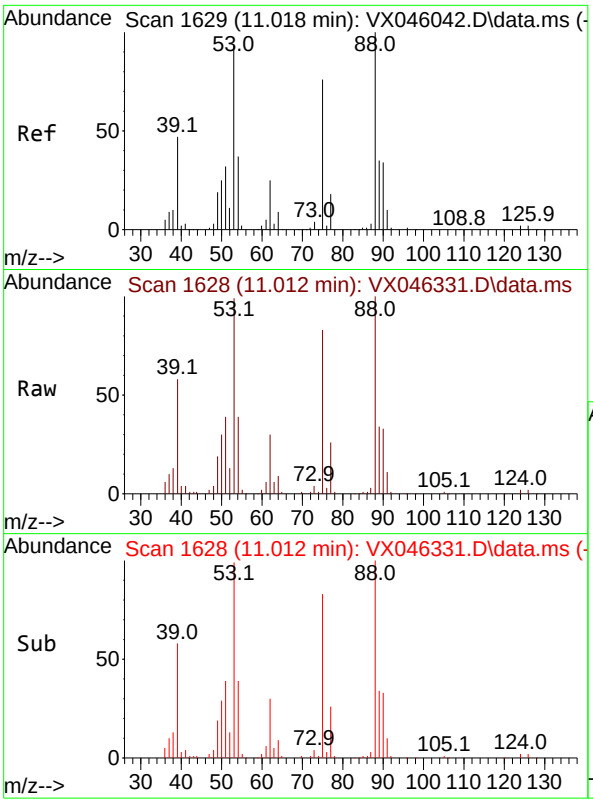




#80
1,3,5-Trimethylbenzene
Concen: 51.877 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:105 Resp: 224812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.4 | 23.1 | 69.2 |






#81
trans-1,4-Dichloro-2-butene
Concen: 54.814 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 2700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 121.3 | 100.5 | 150.7 |
| 89 | 45.7 | 37.0 | 55.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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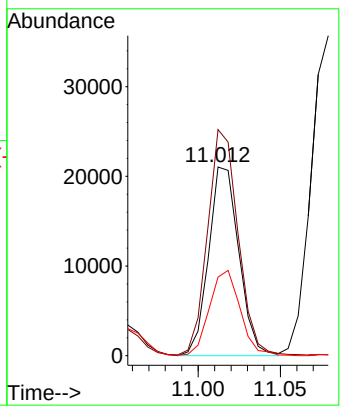
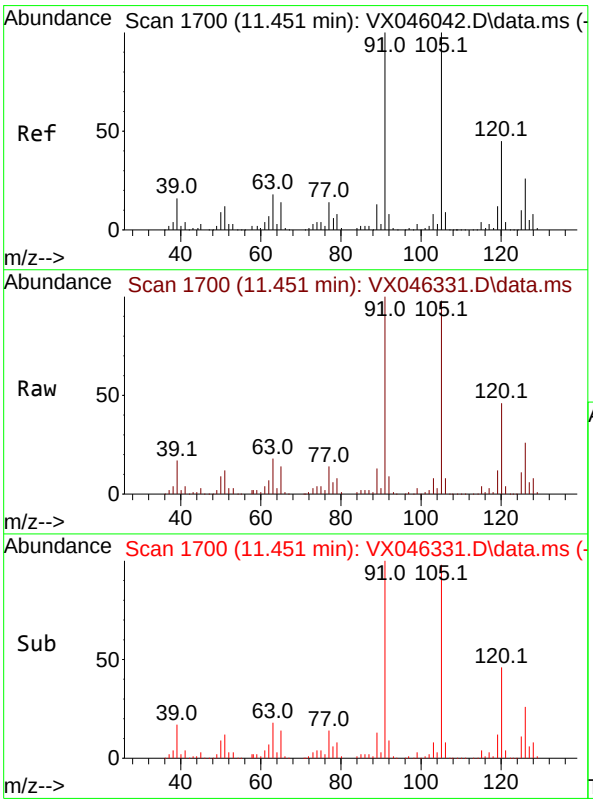
Supervised By :Mahesh Dadoda 05/26/2025

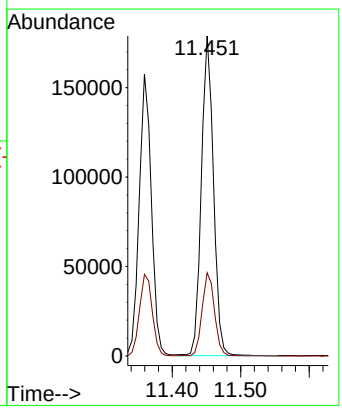


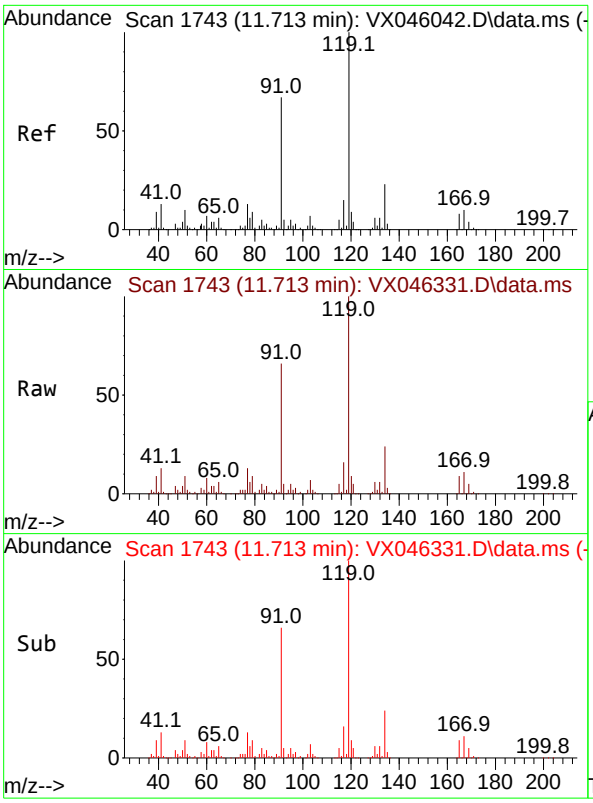




#82
4-Chlorotoluene
Concen: 50.910 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 91 Resp: 219638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 26.8 | 13.3 | 39.8 |

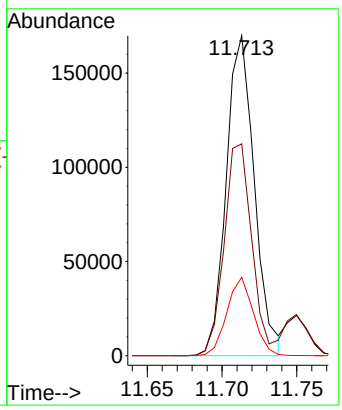





#83
tert-Butylbenzene
Concen: 50.888 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:119 Resp: 22213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.6 | 32.9 | 98.7 |
| 134 | 23.1 | 11.4 | 34.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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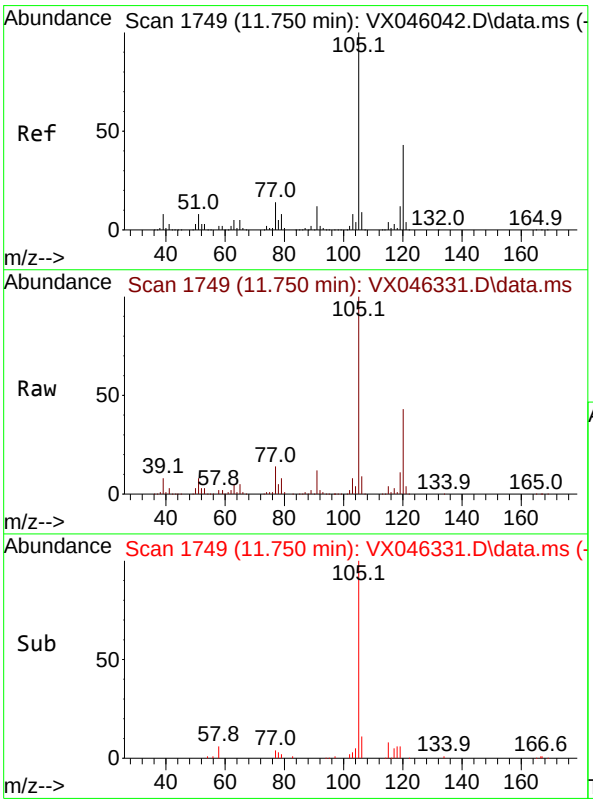
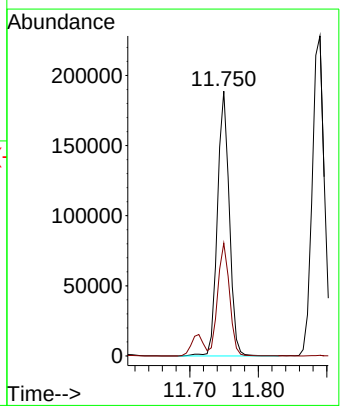
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

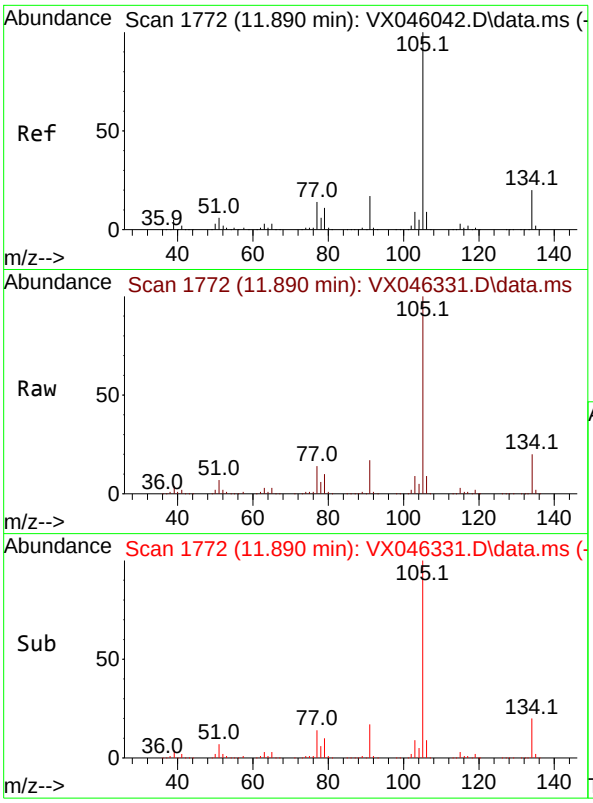



#84
1,2,4-Trimethylbenzene
Concen: 51.438 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:105 Resp: 225740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.4 | 21.2 | 63.6 |

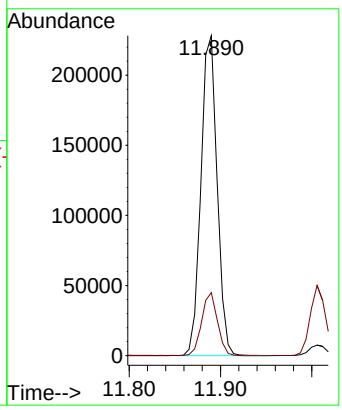





#85
sec-Butylbenzene
Concen: 52.265 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:105 Resp: 28012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.2 | 9.7 | 29.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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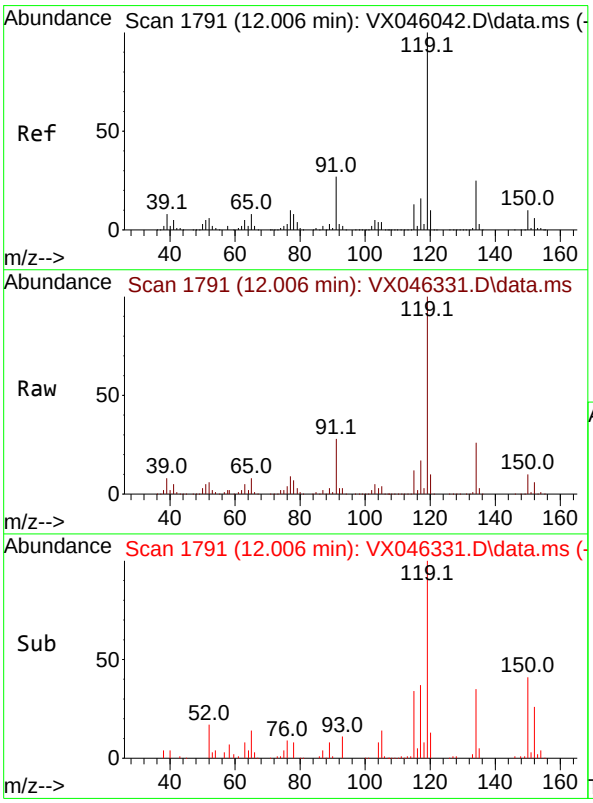
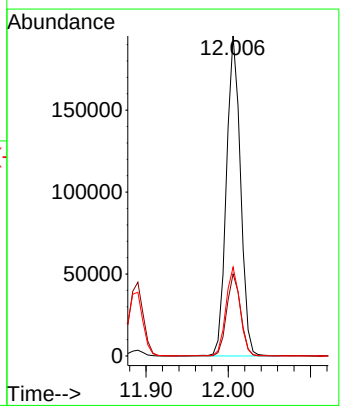
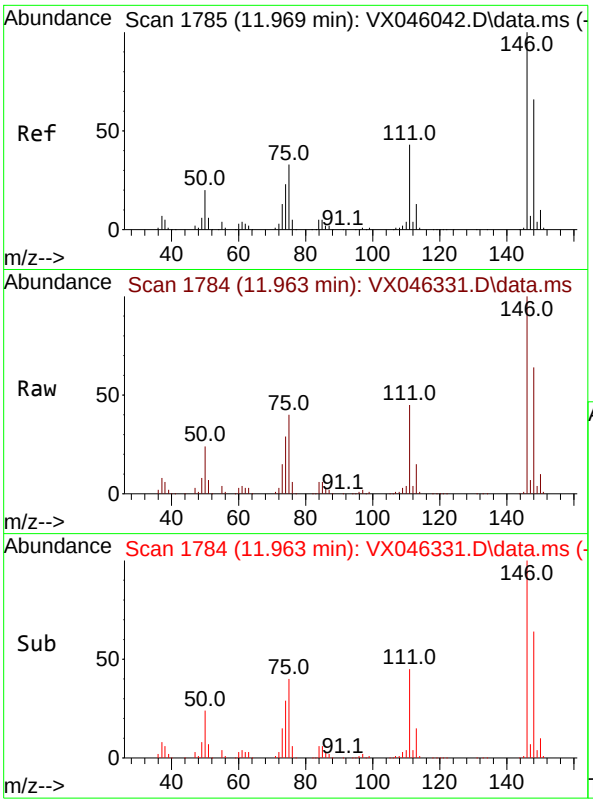



#86
p-Isopropyltoluene
Concen: 52.479 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:119 Resp: 232168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.3 | 12.5 | 37.5 |
| 91 | 27.5 | 13.8 | 41.4 |

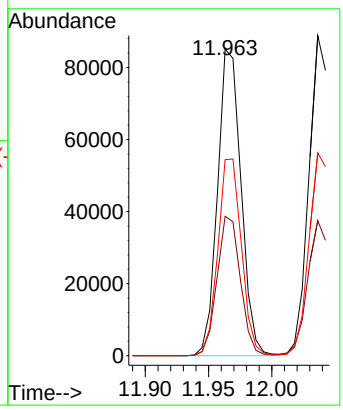





#87
1,3-Dichlorobenzene
Concen: 50.025 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:146 Resp: 10994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.2 | 22.1 | 66.3 |
| 148 | 64.2 | 32.1 | 96.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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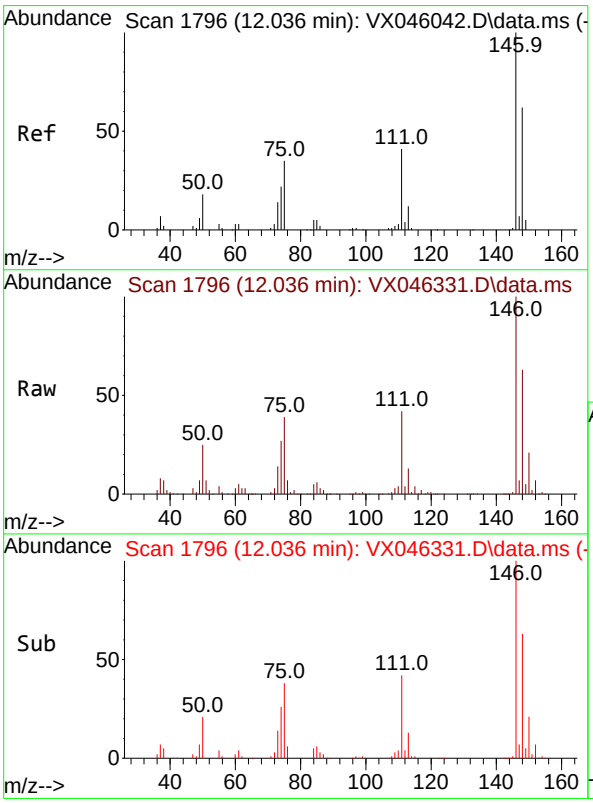
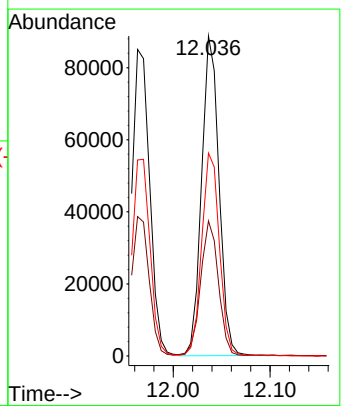
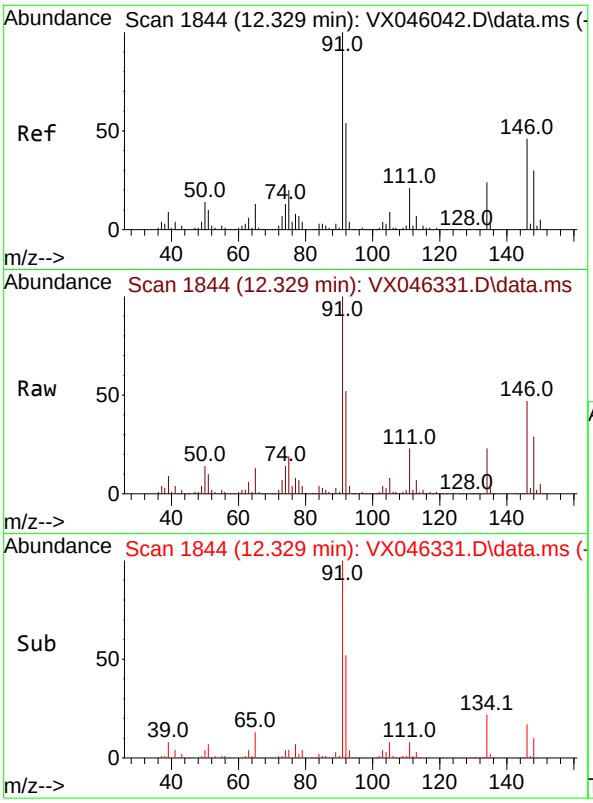



#88
1,4-Dichlorobenzene
Concen: 49.641 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:146 Resp: 111425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.0 | 21.3 | 63.9 |
| 148 | 64.9 | 31.9 | 95.5 |

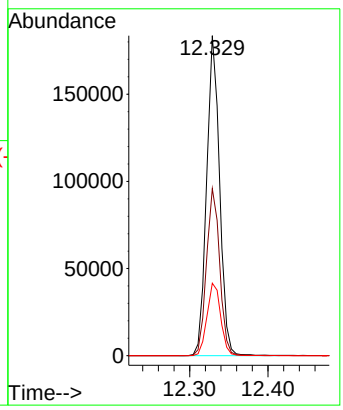





#89
n-Butylbenzene
Concen: 54.179 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 91 Resp: 21025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.3 | 26.9 | 80.7 |
| 134 | 23.9 | 11.8 | 35.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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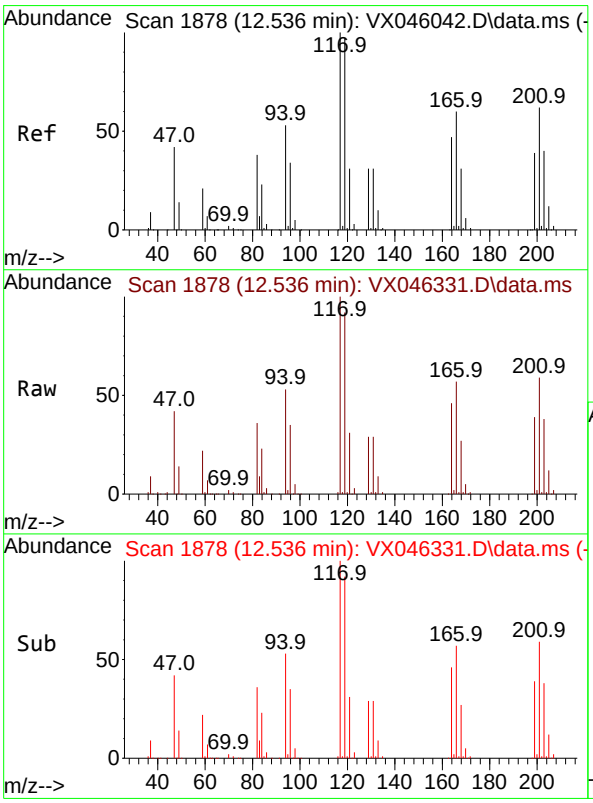
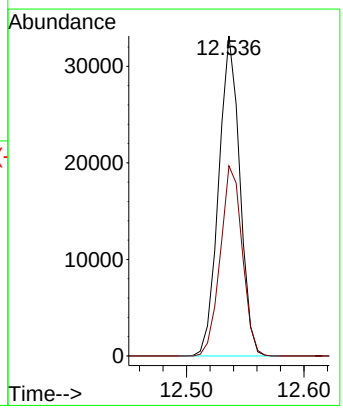
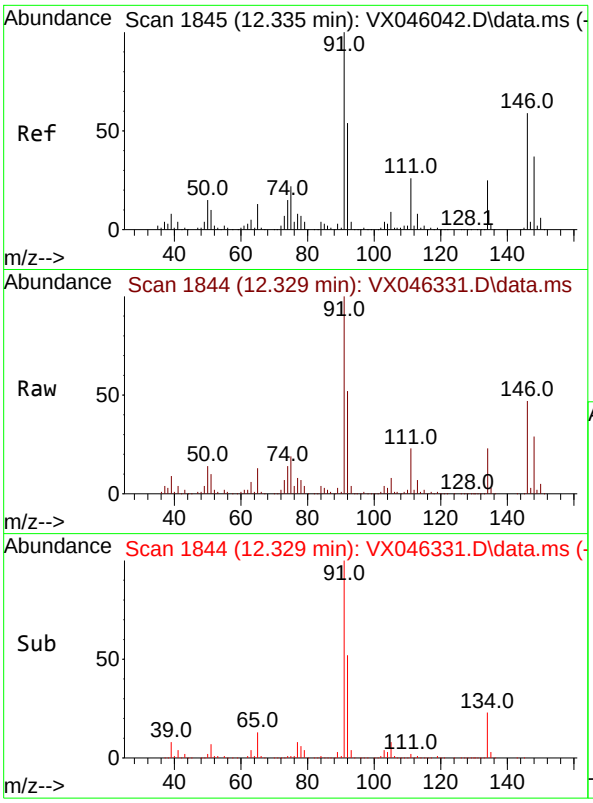



#90
Hexachloroethane
Concen: 53.122 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:117 Resp: 41404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 61.6 | 31.6 | 94.7 |

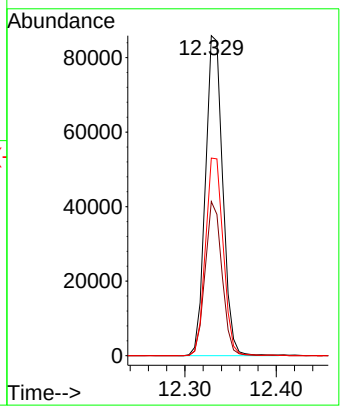





#91
1,2-Dichlorobenzene
Concen: 51.002 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:146 Resp: 11248

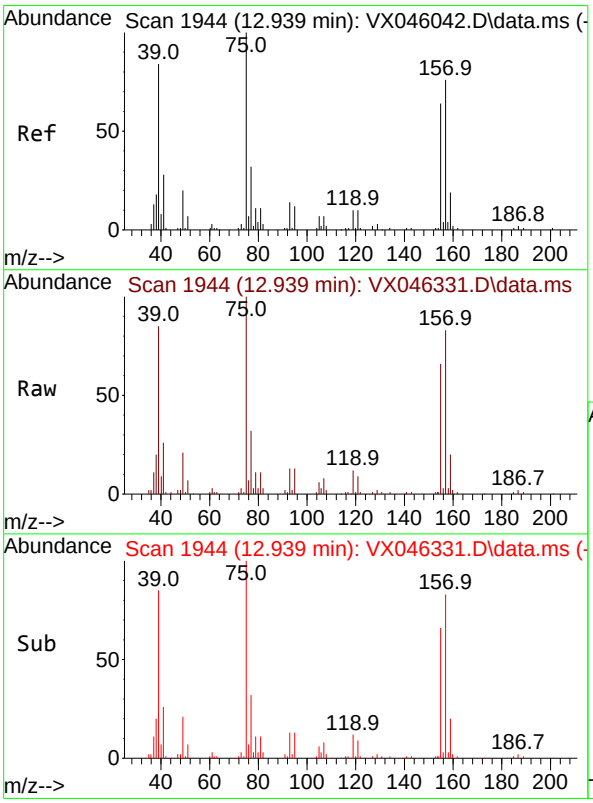
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.8 | 22.4 | 67.3 |
| 148 | 63.4 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

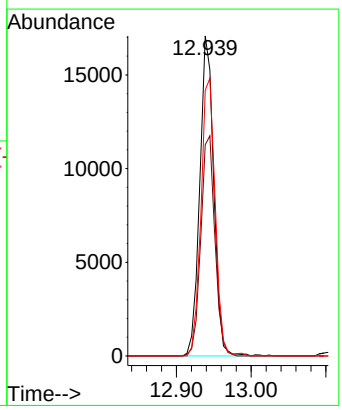
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

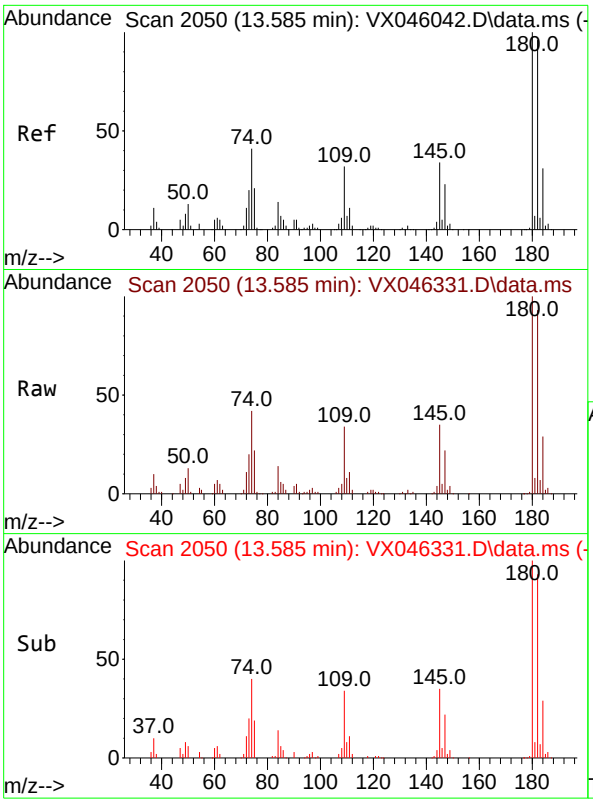



#92
1,2-Dibromo-3-Chloropropane
Concen: 55.085 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 22183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 69.3 | 34.9 | 104.8 |
| 157 | 88.3 | 43.8 | 131.4 |

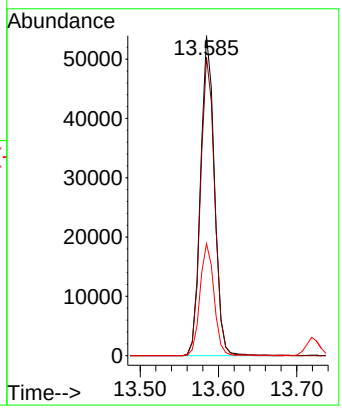





#93
1,2,4-Trichlorobenzene
Concen: 52.307 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:180 Resp: 6626

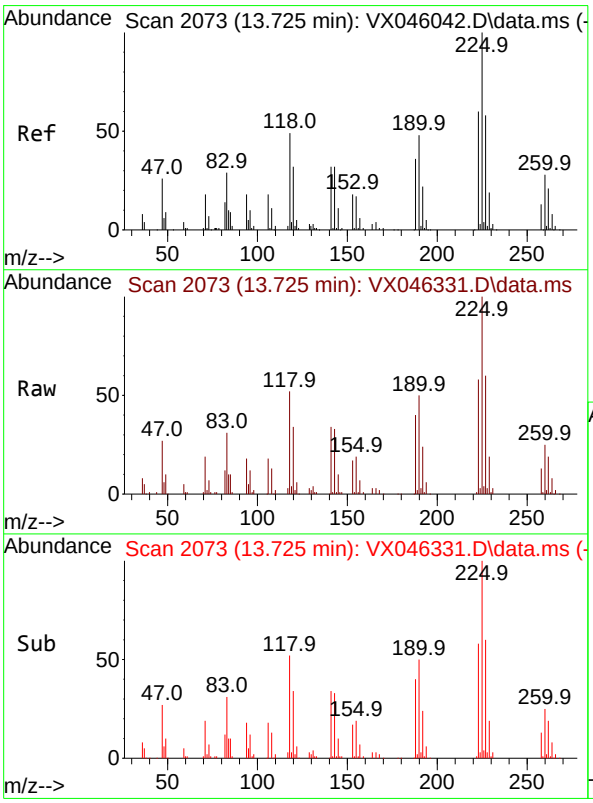
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 47.9 | 143.8 |
| 145 | 35.3 | 17.1 | 51.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

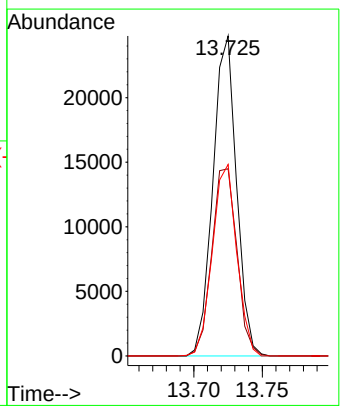
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

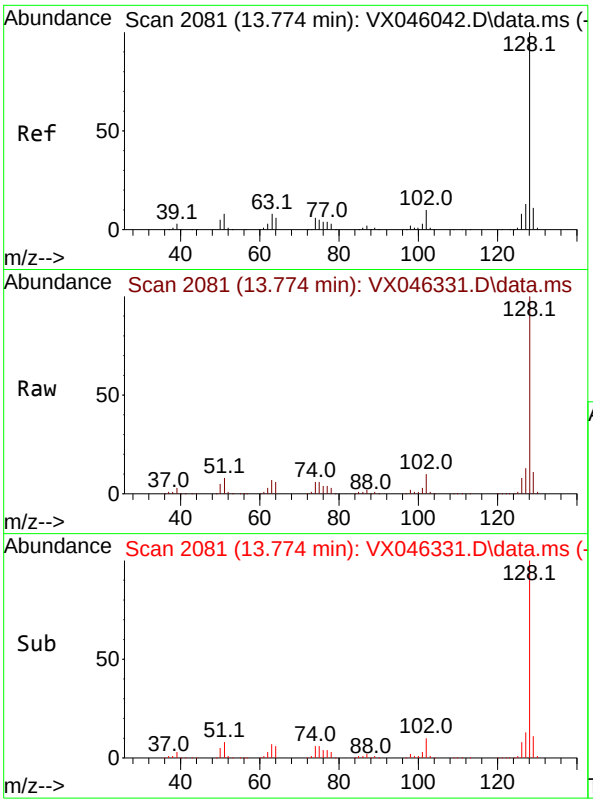



#94
Hexachlorobutadiene
Concen: 53.637 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:225 Resp: 29675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.4 | 30.8 | 92.4 |
| 227 | 61.8 | 30.9 | 92.7 |

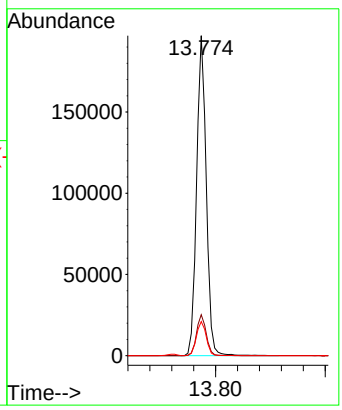





#95
Naphthalene
Concen: 52.127 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:128 Resp: 24218

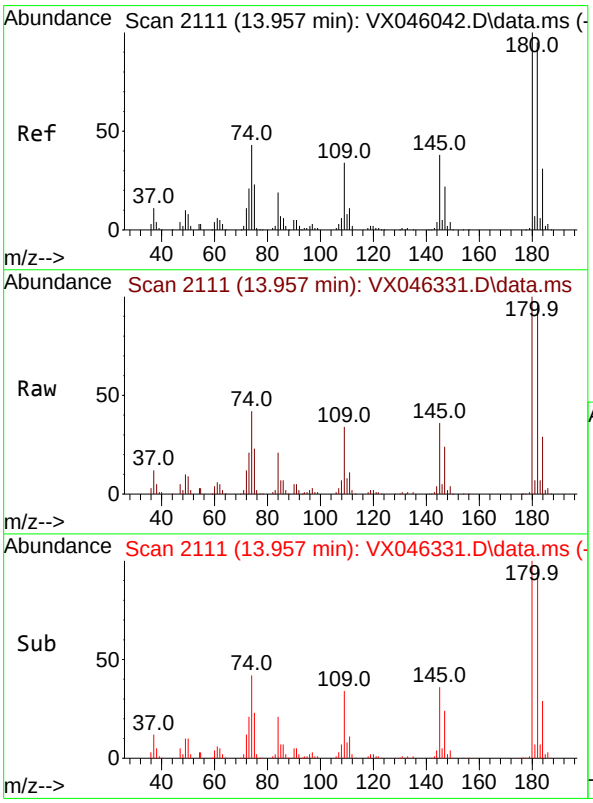
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.4 | 15.6 |
| 129 | 10.9 | 8.6 | 13.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

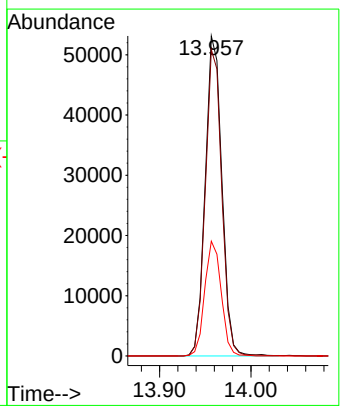
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025




#96
1,2,3-Trichlorobenzene
Concen: 51.275 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:180 Resp: 67021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 47.8 | 143.3 |
| 145 | 35.5 | 18.1 | 54.3 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 93 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.765 | 0.718 | 6.1 | 77 | 0.00 |
| 3 | P | Chloromethane | 0.742 | 0.654 | 11.9 | 78 | 0.00 |
| 4 | C | Vinyl Chloride | 0.691 | 0.592 | 14.3# | 77 | 0.00 |
| 5 | T | Bromomethane | 0.320 | 0.288 | 10.0 | 82 | 0.00 |
| 6 | T | Chloroethane | 0.369 | 0.378 | -2.4 | 93 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.021 | 0.993 | 2.7 | 86 | 0.00 |
| 8 | T | Diethyl Ether | 0.347 | 0.339 | 2.3 | 93 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.632 | 0.618 | 2.2 | 89 | 0.00 |
| 10 | T | Methyl Iodide | 0.747 | 0.684 | 8.4 | 79 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.131 | 0.143 | -9.2 | 103 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.593 | 0.550 | 7.3# | 85 | 0.00 |
| 13 | T | Acrolein | 0.149 | 0.160 | -7.4 | 97 | 0.00 |
| 14 | T | Allyl chloride | 1.133 | 1.169 | -3.2 | 92 | 0.00 |
| 15 | T | Acrylonitrile | 0.374 | 0.404 | -8.0 | 97 | 0.00 |
| 16 | T | Acetone | 0.374 | 0.393 | -5.1 | 101 | 0.00 |
| 17 | T | Carbon Disulfide | 1.406 | 1.170 | 16.8 | 74 | 0.00 |
| 18 | T | Methyl Acetate | 0.867 | 1.100 | -26.9# | 120 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.079 | 2.197 | -5.7 | 94 | 0.00 |
| 20 | T | Methylene Chloride | 0.716 | 0.663 | 7.4 | 90 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.596 | 0.560 | 6.0 | 85 | 0.00 |
| 22 | T | Diisopropyl ether | 2.189 | 2.307 | -5.4 | 94 | 0.00 |
| 23 | T | Vinyl Acetate | 1.925 | 2.026 | -5.2 | 92 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.219 | 1.239 | -1.6 | 91 | 0.00 |
| 25 | T | 2-Butanone | 0.543 | 0.592 | -9.0 | 99 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.954 | 0.995 | -4.3 | 96 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.718 | 0.706 | 1.7 | 89 | 0.00 |
| 28 | T | Bromochloromethane | 0.587 | 0.602 | -2.6 | 97 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.340 | 0.371 | -9.1 | 98 | 0.00 |
| 30 | C | Chloroform | 1.271 | 1.286 | -1.2# | 92 | 0.00 |
| 31 | T | Cyclohexane | 1.111 | 1.026 | 7.7 | 84 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.101 | 1.128 | -2.5 | 92 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.932 | 0.966 | -3.6 | 98 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.360 | 0.384 | -6.7 | 100 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.484 | 0.468 | 3.3 | 87 | 0.00 |
| 37 | T | Ethyl Acetate | 0.598 | 0.630 | -5.4 | 95 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.544 | 0.551 | -1.3 | 91 | 0.00 |
| 39 | T | Methylcyclohexane | 0.623 | 0.597 | 4.2 | 86 | 0.00 |
| 40 | TM | Benzene | 1.417 | 1.421 | -0.3 | 89 | 0.00 |
| 41 | T | Methacrylonitrile | 0.313 | 0.365 | -16.6 | 97 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.612 | 0.628 | -2.6 | 92 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.912 | 1.021 | -12.0 | 98 | 0.00 |
| 44 | TM | Trichloroethene | 0.341 | 0.343 | -0.6 | 89 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.352 | 0.374 | -6.3# | 93 | 0.00 |
| 46 | T | Dibromomethane | 0.278 | 0.286 | -2.9 | 92 | 0.00 |
| 47 | T | Bromodichloromethane | 0.547 | 0.595 | -8.8 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 0.466 | 0.535 | -14.8 | 98 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 0.009 | 0.009 | 0.0 | 95 | 0.00 |
| 50 | S | Toluene-d8 | 1.246 | 1.307 | -4.9 | 99 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.605 | 0.677 | -11.9 | 99 | 0.00 |
| 52 | CM | Toluene | 0.869 | 0.878 | -1.0# | 90 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.487 | 0.542 | -11.3 | 95 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.538 | 0.591 | -9.9 | 94 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.343 | 0.366 | -6.7 | 95 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.546 | 0.629 | -15.2 | 98 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.615 | 0.639 | -3.9 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.278 | 0.299 | -7.6 | 90 | 0.00 |
| 59 | T | 2-Hexanone | 0.448 | 0.511 | -14.1 | 100 | 0.00 |
| 60 | T | Dibromochloromethane | 0.376 | 0.417 | -10.9 | 96 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.356 | 0.377 | -5.9 | 93 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.478 | 0.514 | -7.5 | 101 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 64 | T | Tetrachloroethene | 0.354 | 0.357 | -0.8 | 89 | 0.00 |
| 65 | PM | Chlorobenzene | 1.094 | 1.084 | 0.9 | 93 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.374 | 0.389 | -4.0 | 93 | 0.00 |
| 67 | C | Ethyl Benzene | 1.929 | 1.985 | -2.9# | 92 | 0.00 |
| 68 | T | m/p-Xylenes | 0.706 | 0.719 | -1.8 | 91 | 0.00 |
| 69 | T | o-Xylene | 0.688 | 0.714 | -3.8 | 92 | 0.00 |
| 70 | T | Styrene | 1.127 | 1.208 | -7.2 | 93 | 0.00 |
| 71 | P | Bromoform | 0.281 | 0.310 | -10.3 | 96 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 73 | T | Isopropylbenzene | 3.893 | 3.986 | -2.4 | 95 | 0.00 |
| 74 | T | N-amyl acetate | 1.924 | 2.081 | -8.2 | 99 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.364 | 1.366 | -0.1 | 100 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.204 | 1.228 | -2.0 | 101 | 0.00 |
| 77 | T | Bromobenzene | 0.904 | 0.894 | 1.1 | 94 | 0.00 |
| 78 | T | n-propylbenzene | 4.526 | 4.678 | -3.4 | 94 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.919 | 2.868 | 1.7 | 94 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.252 | 3.374 | -3.8 | 95 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.370 | 0.405 | -9.5 | 103 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.238 | 3.296 | -1.8 | 94 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.276 | 3.334 | -1.8 | 95 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.293 | 3.388 | -2.9 | 94 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.022 | 4.204 | -4.5 | 96 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.320 | 3.484 | -4.9 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.649 | 1.650 | -0.1 | 95 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.684 | 1.672 | 0.7 | 97 | 0.00 |
| 89 | T | n-Butylbenzene | 2.912 | 3.156 | -8.4 | 98 | 0.00 |
| 90 | T | Hexachloroethane | 0.585 | 0.621 | -6.2 | 98 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.655 | 1.688 | -2.0 | 98 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.302 | 0.333 | -10.3 | 101 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.951 | 0.994 | -4.5 | 99 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.415 | 0.445 | -7.2 | 102 | 0.00 |
| 95 | T | Naphthalene | 3.487 | 3.635 | -4.2 | 99 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 0.981 | 1.006 | -2.5 | 97 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 93 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 46.886 | 6.2 | 77 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 44.072 | 11.9 | 78 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 42.877 | 14.2# | 77 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 45.004 | 10.0 | 82 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 51.230 | -2.5 | 93 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 48.653 | 2.7 | 86 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 48.706 | 2.6 | 93 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.939 | 2.1 | 89 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 45.758 | 8.5 | 79 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 274.166 | -9.7 | 103 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 46.384 | 7.2# | 85 | 0.00 |
| 13 | T | Acrolein | 250.000 | 268.519 | -7.4 | 97 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 51.568 | -3.1 | 92 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 270.194 | -8.1 | 97 | 0.00 |
| 16 | T | Acetone | 250.000 | 263.114 | -5.2 | 101 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 41.606 | 16.8 | 74 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 63.388 | -26.8# | 120 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 52.851 | -5.7 | 94 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 46.299 | 7.4 | 90 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 47.000 | 6.0 | 85 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 52.704 | -5.4 | 94 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 263.054 | -5.2 | 92 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.826 | -1.7 | 91 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 272.843 | -9.1 | 99 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 52.155 | -4.3 | 96 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.159 | 1.7 | 89 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 51.292 | -2.6 | 97 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 272.575 | -9.0 | 98 | 0.00 |
| 30 | C | Chloroform | 50.000 | 50.618 | -1.2# | 92 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 46.166 | 7.7 | 84 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 51.206 | -2.4 | 92 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 51.802 | -3.6 | 98 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 53.265 | -6.5 | 100 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 48.349 | 3.3 | 87 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 52.723 | -5.4 | 95 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 50.709 | -1.4 | 91 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 47.954 | 4.1 | 86 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.133 | -0.3 | 89 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 58.302 | -16.6 | 97 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 51.375 | -2.8 | 92 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 55.999 | -12.0 | 98 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.279 | -0.6 | 89 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 53.136 | -6.3# | 93 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 51.454 | -2.9 | 92 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 54.392 | -8.8 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 57.467 | -14.9 | 98 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 1053.147 | -5.3 | 95 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 52.423 | -4.8 | 99 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 279.753 | -11.9 | 99 | 0.00 |
| 52 | CM | Toluene | 50.000 | 50.537 | -1.1# | 90 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 55.750 | -11.5 | 95 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 54.982 | -10.0 | 94 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 53.371 | -6.7 | 95 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 57.619 | -15.2 | 98 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 51.895 | -3.8 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 268.416 | -7.4 | 90 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 285.172 | -14.1 | 100 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 55.399 | -10.8 | 96 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 52.931 | -5.9 | 93 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 53.716 | -7.4 | 101 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 94 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 50.481 | -1.0 | 89 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.525 | 1.0 | 93 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 52.010 | -4.0 | 93 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 51.457 | -2.9# | 92 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 101.954 | -2.0 | 91 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 51.899 | -3.8 | 92 | 0.00 |
| 70 | T | Styrene | 50.000 | 53.599 | -7.2 | 93 | 0.00 |
| 71 | P | Bromoform | 50.000 | 55.224 | -10.4 | 96 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.196 | -2.4 | 95 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 54.091 | -8.2 | 99 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 50.066 | -0.1 | 100 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 51.027 | -2.1 | 101 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.441 | 1.1 | 94 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 51.673 | -3.3 | 94 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.128 | 1.7 | 94 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.877 | -3.8 | 95 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 54.814 | -9.6 | 103 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 50.910 | -1.8 | 94 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.888 | -1.8 | 95 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.438 | -2.9 | 94 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 52.265 | -4.5 | 96 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 52.479 | -5.0 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.025 | -0.0 | 95 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 49.641 | 0.7 | 97 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 54.179 | -8.4 | 98 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 53.122 | -6.2 | 98 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 51.002 | -2.0 | 98 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 55.085 | -10.2 | 101 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 52.307 | -4.6 | 99 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 53.637 | -7.3 | 102 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 52.127 | -4.3 | 99 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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 | 51.275 | -2.5 | 97 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG No.: Q2075

Instrument ID: MSVOA_Y Calibration Date/Time: 05/20/2025 08:40

Lab File ID: VY022329.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Benzene | 1.457 | 1.473 | | 1.1 | 20 |
| Toluene | 0.923 | 0.912 | | -1.19 | 20 |
| Ethyl Benzene | 2.113 | 2.120 | | 0.33 | 20 |
| m/p-Xylenes | 0.796 | 0.803 | | 0.88 | 20 |
| o-Xylene | 0.753 | 0.738 | | -1.99 | 20 |
| Isopropylbenzene | 4.142 | 4.147 | | 0.12 | 20 |
| n-propylbenzene | 4.996 | 5.062 | | 1.32 | 20 |
| 1,3,5-Trimethylbenzene | 3.344 | 3.297 | | -1.41 | 20 |
| tert-Butylbenzene | 2.972 | 2.924 | | -1.62 | 20 |
| 1,2,4-Trimethylbenzene | 3.319 | 3.232 | | -2.62 | 20 |
| sec-Butylbenzene | 4.412 | 4.438 | | 0.59 | 20 |
| p-Isopropyltoluene | 3.710 | 3.717 | | 0.19 | 20 |
| n-Butylbenzene | 3.510 | 3.562 | | 1.48 | 20 |
| 1,2-Dichloroethane-d4 | 0.546 | 0.533 | | -2.38 | 20 |
| Dibromofluoromethane | 0.298 | 0.305 | | 2.35 | 20 |
| Toluene-d8 | 1.222 | 1.259 | | 3.03 | 20 |
| 4-Bromofluorobenzene | 0.387 | 0.375 | | -3.1 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022329.D
Acq On : 20 May 2025 08:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 01:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 180374 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 298369 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 252391 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 120747 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 96211 | 48.805 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 97.620% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 90959 | 51.076 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 102.160% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 375501 | 51.484 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 102.960% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 111811 | 48.365 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 96.740% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 87856 | 46.679 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 197335 | 49.842 | ug/l | 100 |
| 4) Vinyl Chloride | 2.202 | 62 | 274924 | 62.153 | ug/l | 97 |
| 5) Bromomethane | 2.598 | 94 | 209168 | 58.088 | ug/l | 99 |
| 6) Chloroethane | 2.733 | 64 | 182573 | 66.345 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 251083 | 56.065 | ug/l | 100 |
| 8) Diethyl Ether | 3.452 | 74 | 49275 | 45.847 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 99707 | 51.283 | ug/l | 98 |
| 10) Methyl Iodide | 4.007 | 142 | 113213 | 50.311 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.860 | 59 | 32480 | 215.761 | ug/l # | 100 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 96307 | 49.916 | ug/l | 98 |
| 13) Acrolein | 3.653 | 56 | 26963 | 122.519 | ug/l | 94 |
| 14) Allyl chloride | 4.379 | 41 | 152279 | 45.013 | ug/l | 94 |
| 15) Acrylonitrile | 5.055 | 53 | 100495 | 226.925 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 82432 | 223.009 | ug/l | 90 |
| 17) Carbon Disulfide | 4.104 | 76 | 308666 | 49.060 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 49112 | 42.141 | ug/l | 95 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 249468 | 46.893 | ug/l | 99 |
| 20) Methylene Chloride | 4.616 | 84 | 104952 | 43.941 | ug/l | 92 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 105103 | 49.353 | ug/l | 91 |
| 22) Diisopropyl ether | 6.019 | 45 | 328037 | 45.916 | ug/l | 99 |
| 23) Vinyl Acetate | 5.958 | 43 | 945452 | 219.054 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 195759 | 49.046 | ug/l | 97 |
| 25) 2-Butanone | 6.890 | 43 | 132386 | 214.116 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 176104 | 49.606 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 123269 | 50.159 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 84842 | 49.834 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.262 | 42 | 85738 | 215.541 | ug/l | 95 |
| 30) Chloroform | 7.421 | 83 | 191099 | 49.916 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 186740 | 46.827 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 174168 | 49.587 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 146745 | 50.028 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 60741 | 43.038 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 154127 | 50.762 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 197541 | 50.127 | ug/l | 96 |
| 40) Benzene | 8.079 | 78 | 439609 | 50.555 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022329.D
Acq On : 20 May 2025 08:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 01:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 42308m | 45.192 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 113474 | 48.255 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 132355 | 43.001 | ug/l | # | 86 |
| 44) Trichloroethene | 8.866 | 130 | 108566 | 50.212 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 103106 | 49.181 | ug/l | | 98 |
| 46) Dibromomethane | 9.231 | 93 | 54532 | 48.227 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.420 | 83 | 145860 | 49.724 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.219 | 41 | 61712 | 42.873 | ug/l | | 94 |
| 49) 1,4-Dioxane | 9.231 | 88 | 12080 | 945.674 | ug/l | | 90 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 328310 | 217.386 | ug/l | | 97 |
| 52) Toluene | 10.170 | 92 | 272032 | 49.403 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 136680 | 47.744 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 157453 | 48.006 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 69620 | 48.082 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.438 | 69 | 103441 | 45.862 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 124485 | 48.388 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 228868 | 226.074 | ug/l | | 99 |
| 59) 2-Hexanone | 10.762 | 43 | 216713 | 214.015 | ug/l | | 97 |
| 60) Dibromochloromethane | 10.914 | 129 | 90557 | 48.185 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 64317 | 47.659 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 118778 | 50.915 | ug/l | | 98 |
| 65) Chlorobenzene | 11.444 | 112 | 283164 | 49.729 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 96653 | 49.374 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 534980 | 50.166 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 405451 | 100.899 | ug/l | | 98 |
| 69) o-Xylene | 11.956 | 106 | 186251 | 48.989 | ug/l | | 100 |
| 70) Styrene | 11.969 | 104 | 316649 | 49.374 | ug/l | | 98 |
| 71) Bromoform | 12.133 | 173 | 48192 | 45.610 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 500715 | 50.055 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 122315 | 42.753 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 71869 | 46.716 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 57634m | 47.114 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 101902 | 47.696 | ug/l | | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 611228 | 50.658 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 320605 | 48.352 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 398122 | 49.303 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 26577 | 44.011 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 331061 | 48.542 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 353055 | 49.191 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 390297 | 48.690 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.176 | 105 | 535889 | 50.299 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 448789 | 50.085 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 211690 | 48.536 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 200827 | 47.869 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 430086 | 50.735 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 88228 | 48.777 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 175805 | 47.987 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 11289 | 45.506 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 98395 | 46.496 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 54240 | 45.960 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 179488 | 44.695 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 82076 | 45.719 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022329.D
Acq On : 20 May 2025 08:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 01:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

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

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

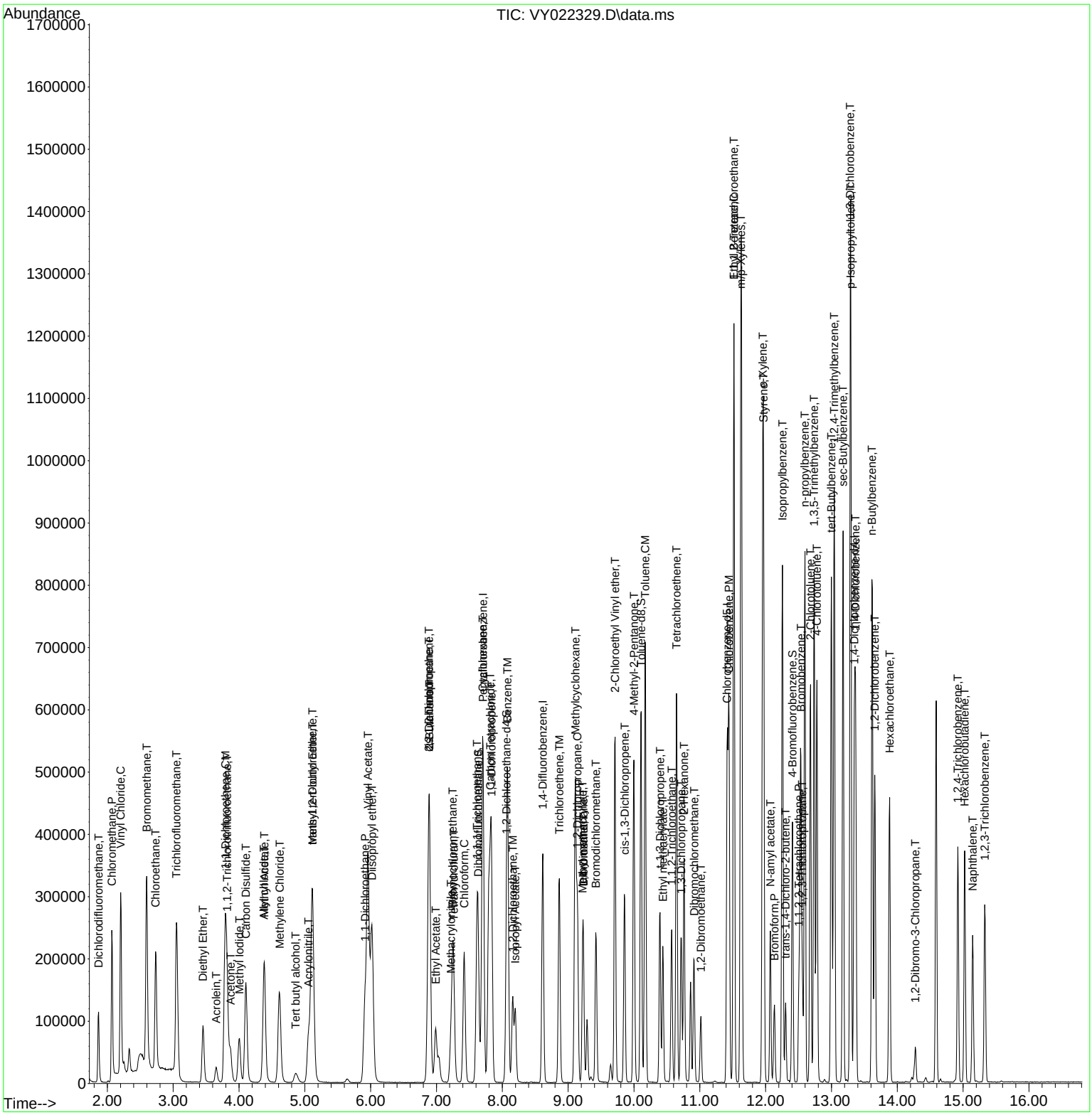
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022329.D
Acq On : 20 May 2025 08:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

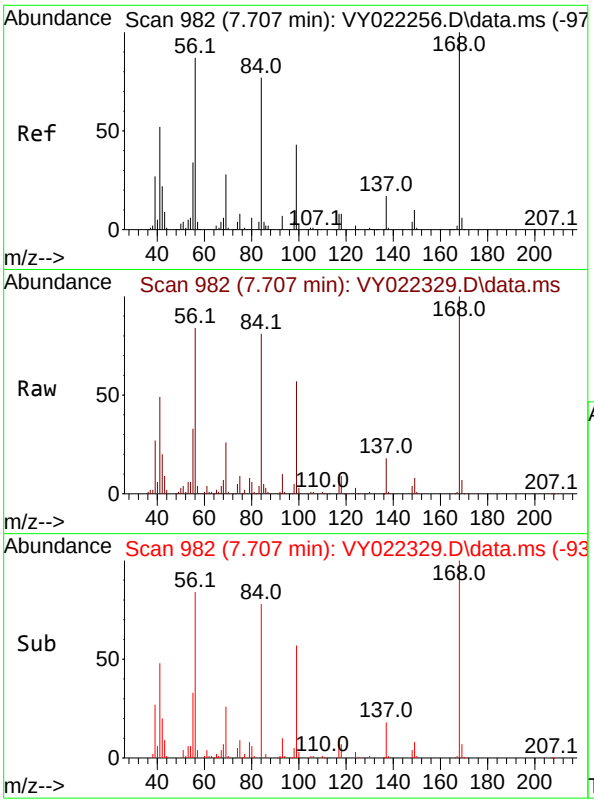
Quant Time: May 21 01:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

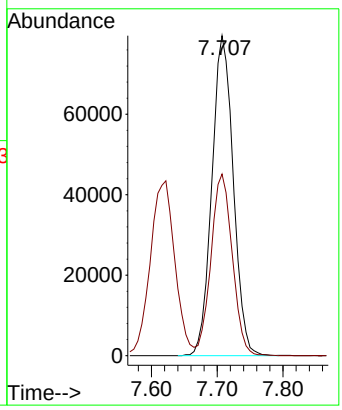





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:168 Resp: 18037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.7 | 44.2 | 66.4 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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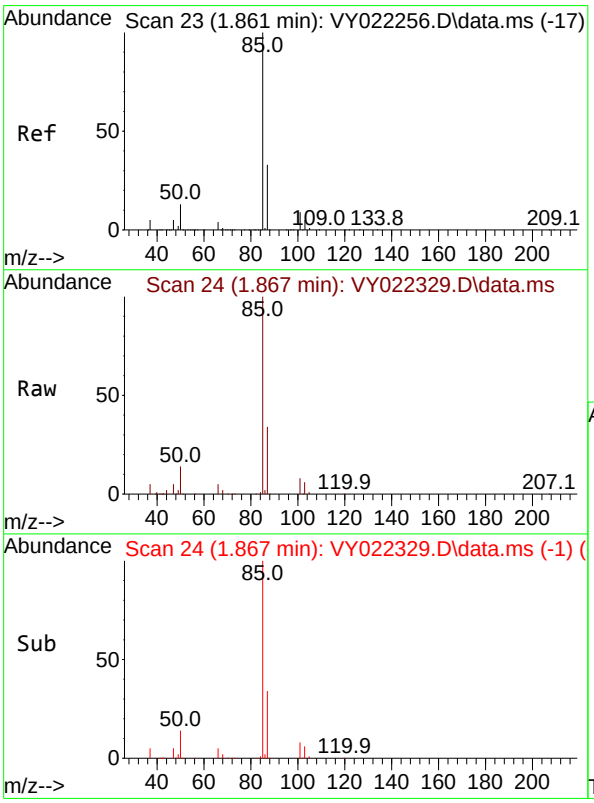
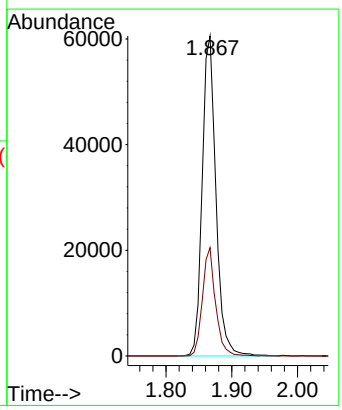
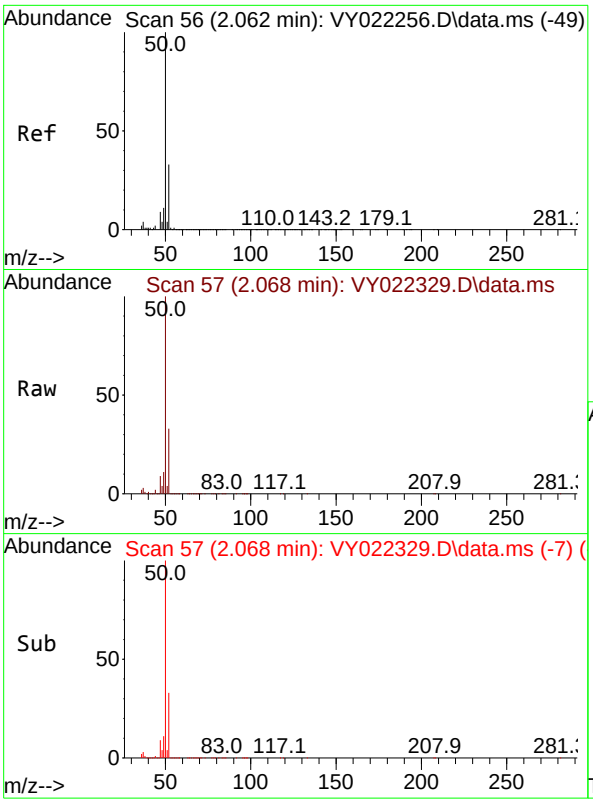



#2
Dichlorodifluoromethane
Concen: 46.679 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 85 Resp: 87856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.8 | 16.5 | 49.5 |

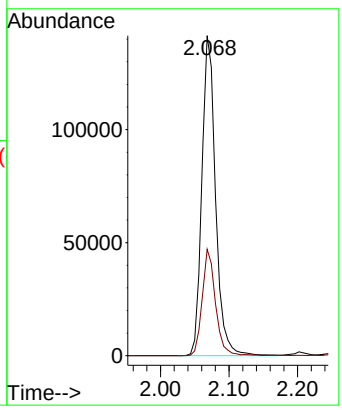





#3
Chloromethane
Concen: 49.842 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 50 Resp: 19733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.2 | 26.5 | 39.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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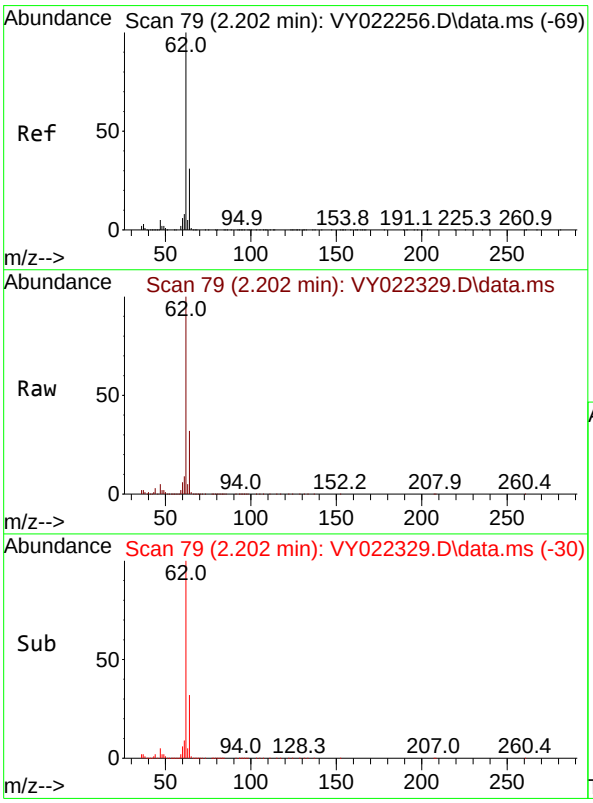
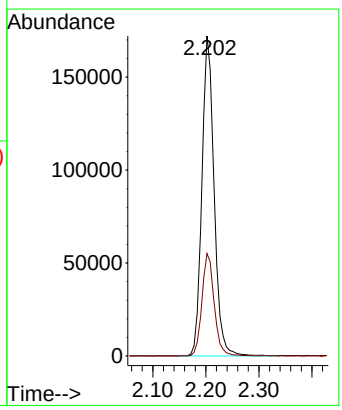
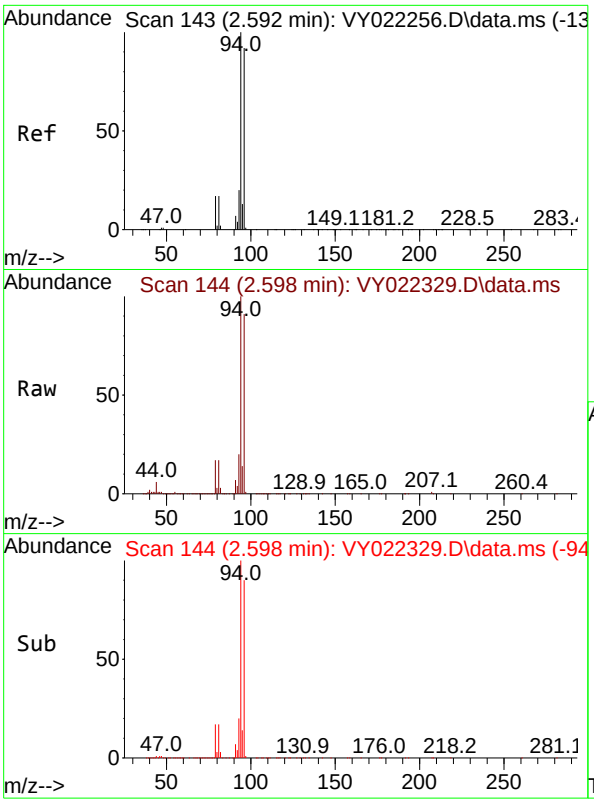



#4
Vinyl Chloride
Concen: 62.153 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 62 Resp: 274924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.0 | 24.5 | 36.7 |

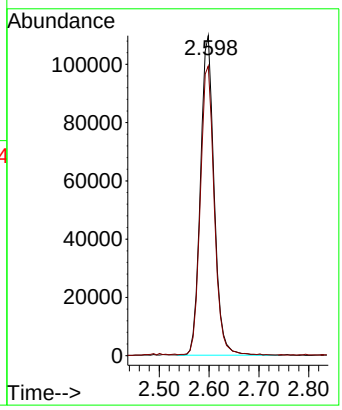





#5
Bromomethane
Concen: 58.088 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 94 Resp: 20916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 90.5 | 73.4 | 110.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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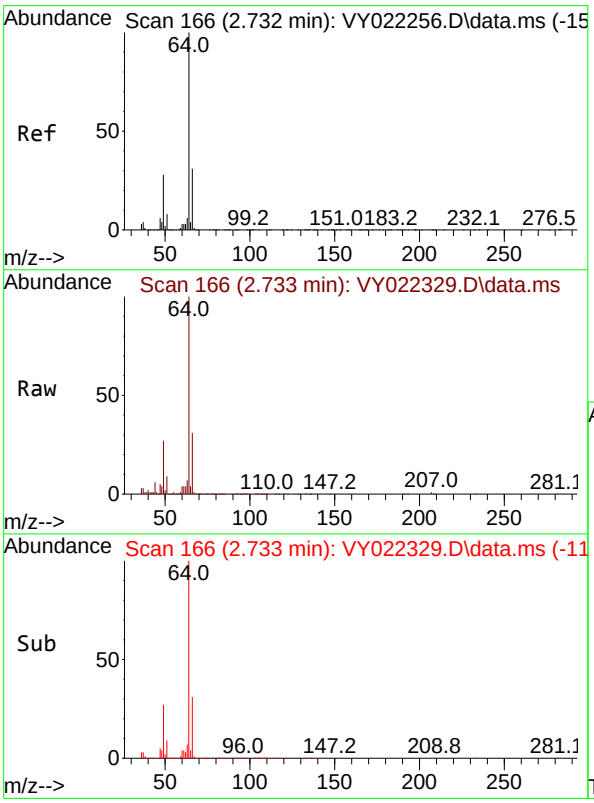
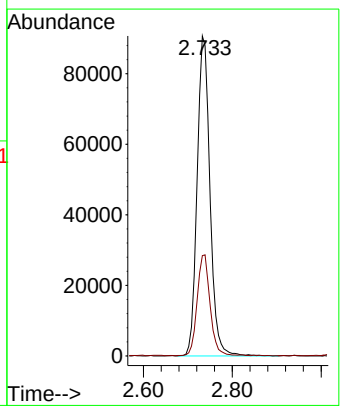
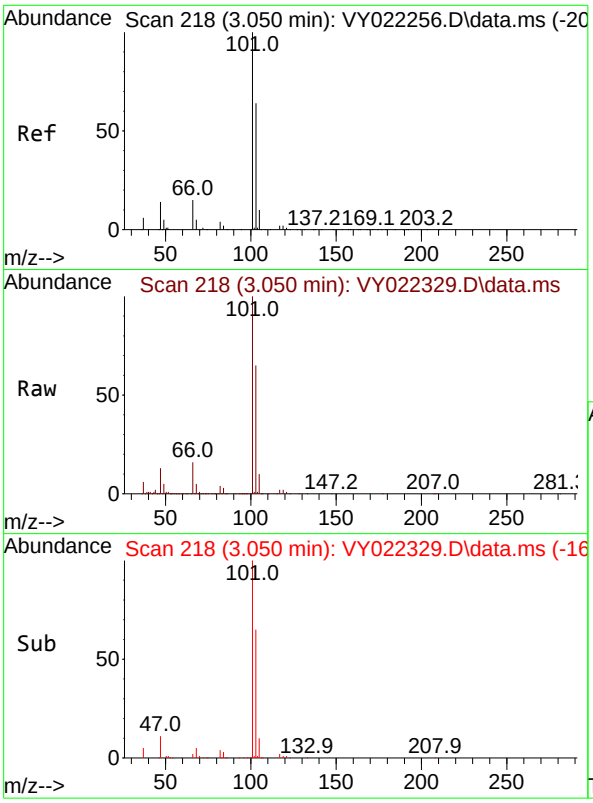



#6
Chloroethane
Concen: 66.345 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 64 Resp: 182573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.2 | 24.8 | 37.2 |

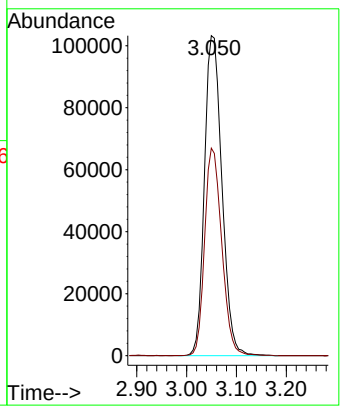





#7
Trichlorofluoromethane
Concen: 56.065 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:101 Resp: 25108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.9 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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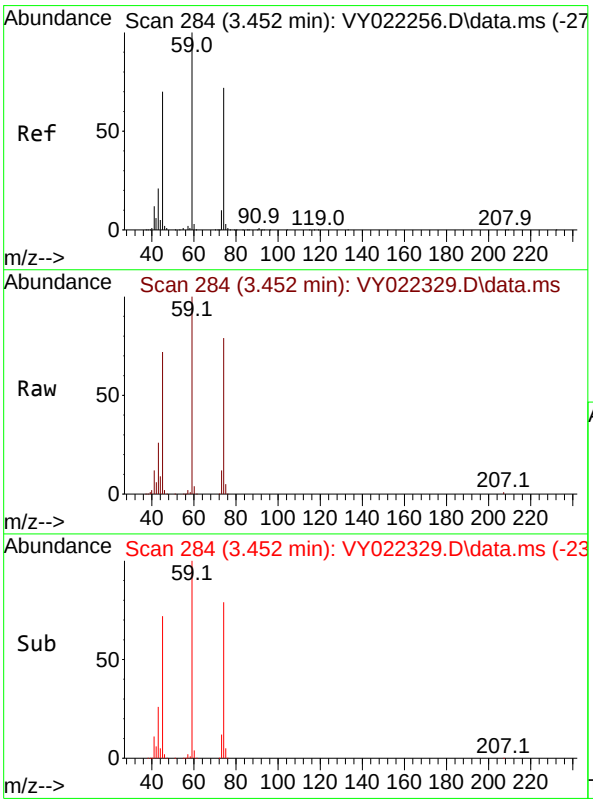
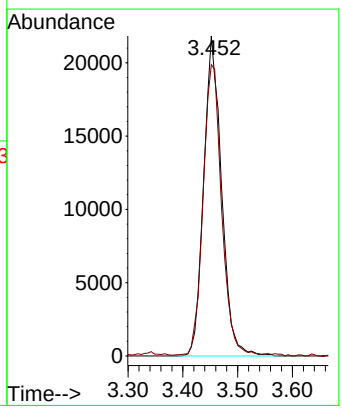
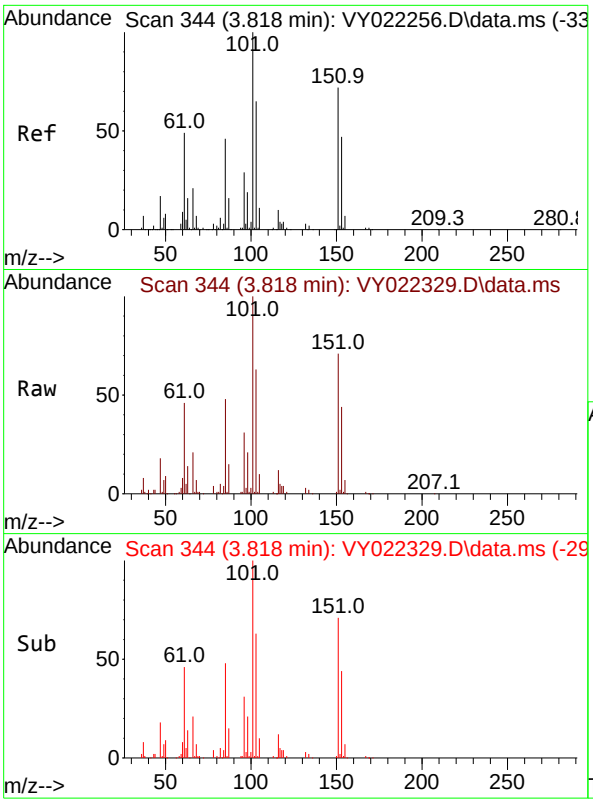



#8
Diethyl Ether
Concen: 45.847 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 74 Resp: 49275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 93.9 | 48.6 | 145.8 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.283 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:101 Resp: 9970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.5 | 38.6 | 58.0 |
| 151 | 72.3 | 59.7 | 89.5 |

**Instrument :**
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**ClientSampleId :**
VSTDCCC050

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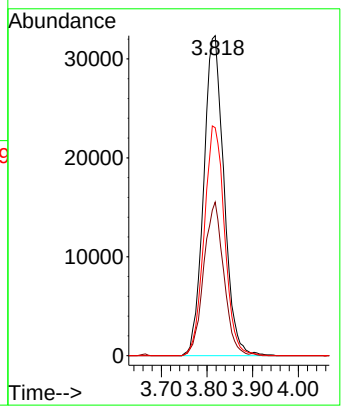
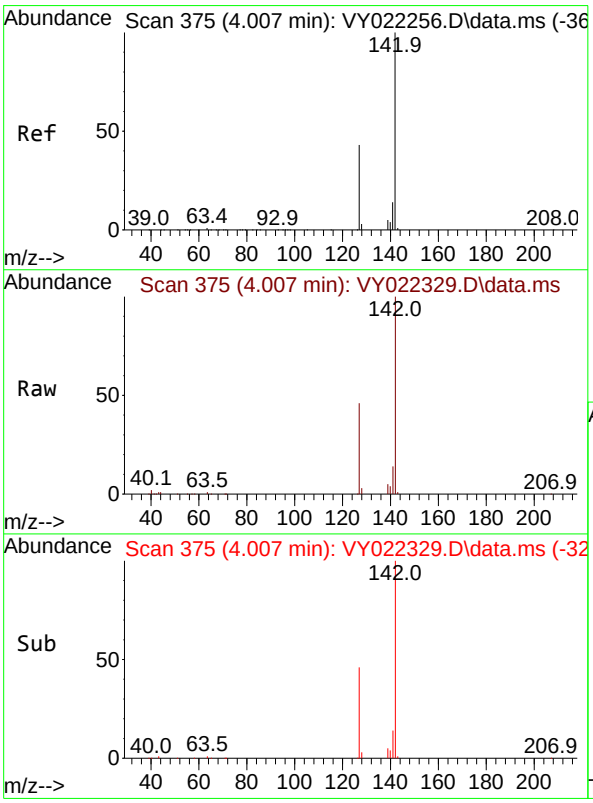
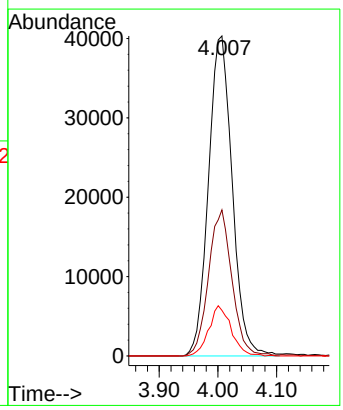


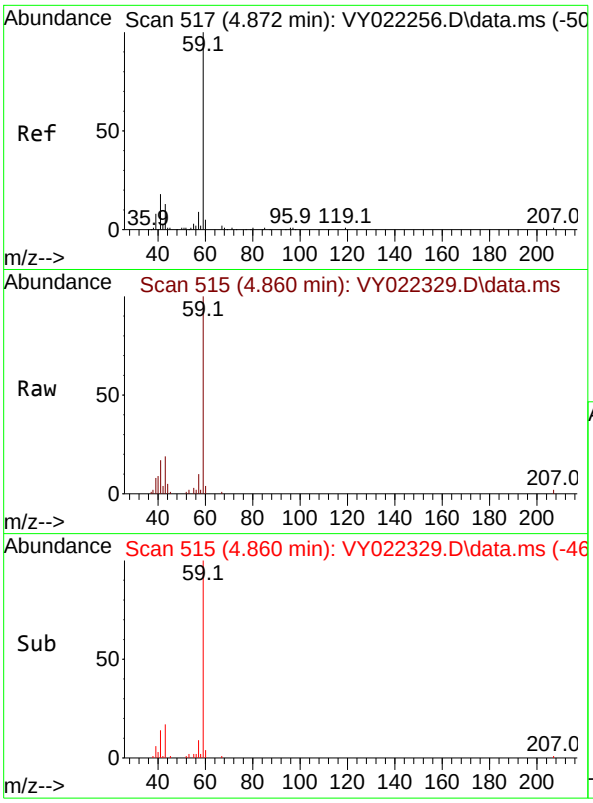




#10
Methyl Iodide
Concen: 50.311 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:142 Resp: 113213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.1 | 35.7 | 53.5 |
| 141 | 14.8 | 11.1 | 16.7 |

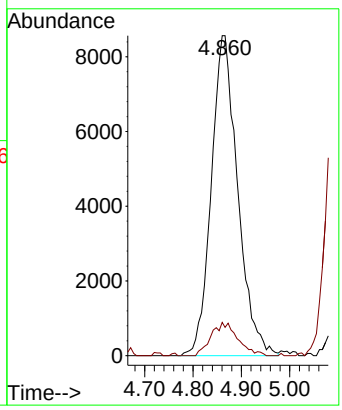





#11
Tert butyl alcohol
Concen: 215.761 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 59 Resp: 3248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.5 | 0.0 | 0.0 |

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VSTDCCC050

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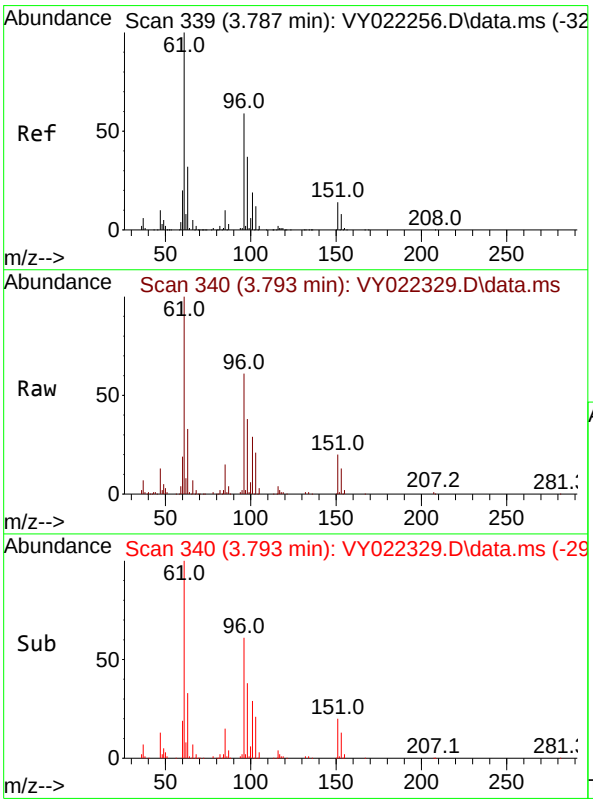
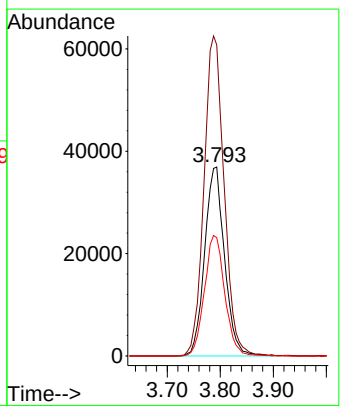
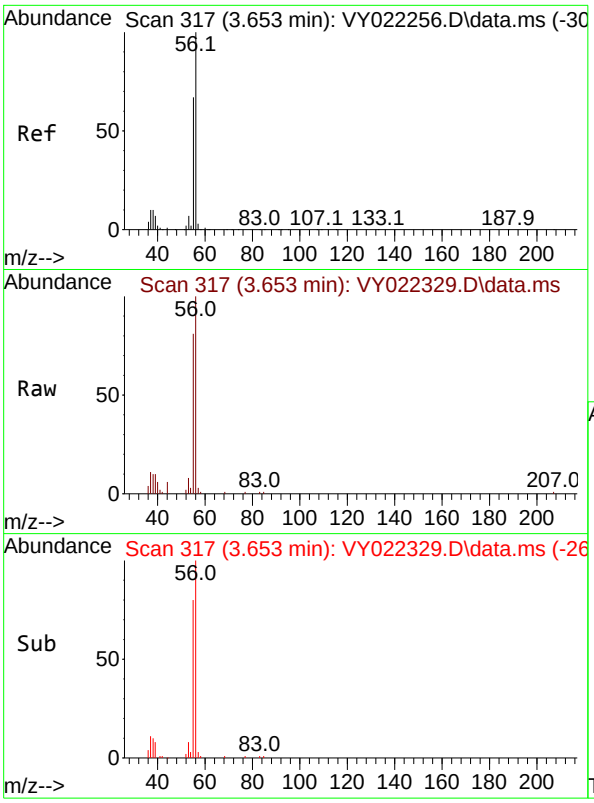



#12
1,1-Dichloroethene
Concen: 49.916 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 96 Resp: 96307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 164.5 | 134.9 | 202.3 |
| 98 | 62.5 | 49.9 | 74.9 |

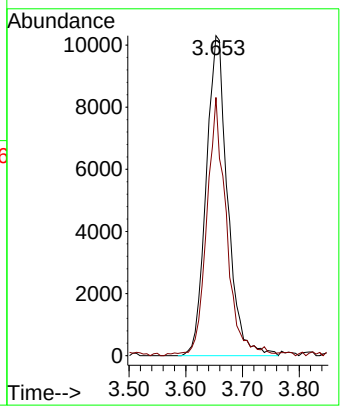





#13
Acrolein
Concen: 122.519 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 56 Resp: 2696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 74.4 | 55.6 | 83.4 |

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VSTDCCC050

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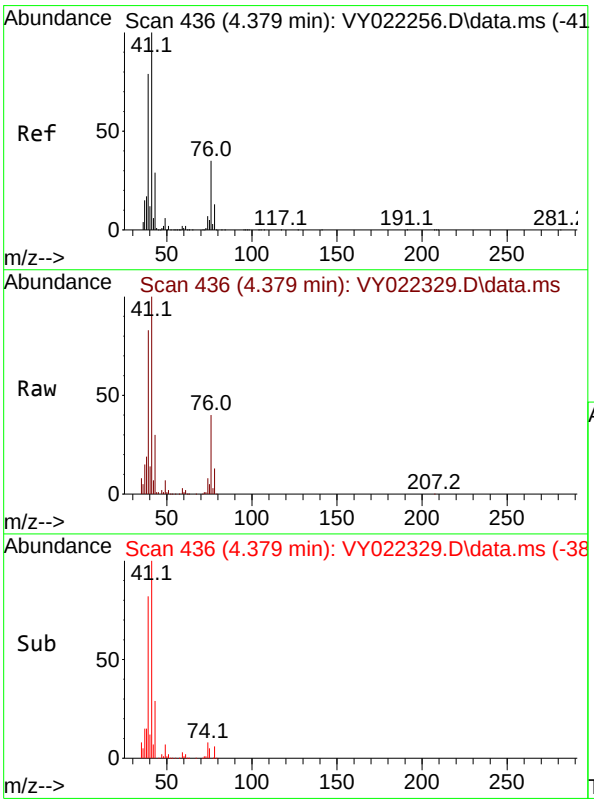
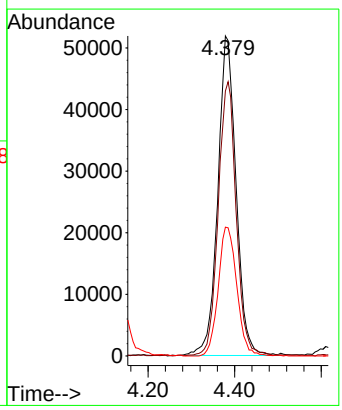
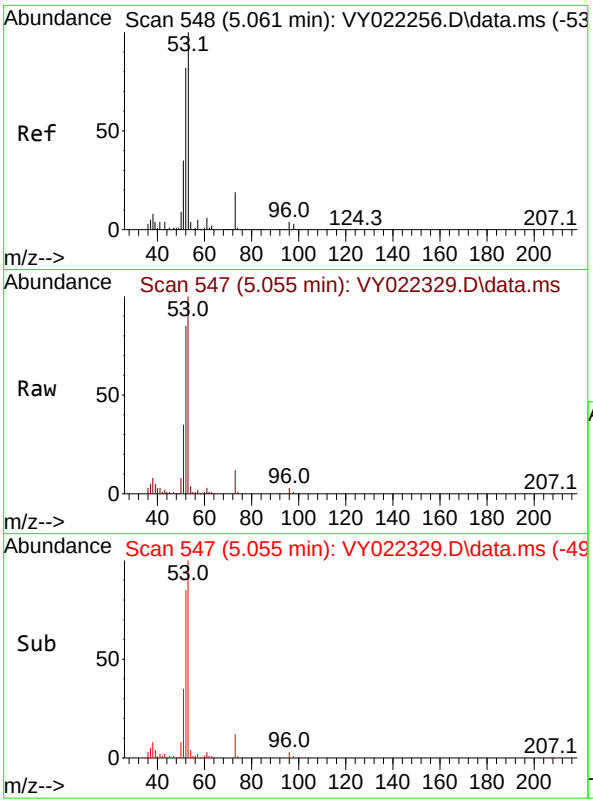



#14
Allyl chloride
Concen: 45.013 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 41 Resp: 152279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 84.4 | 63.4 | 95.0 |
| 76 | 41.0 | 29.5 | 44.3 |

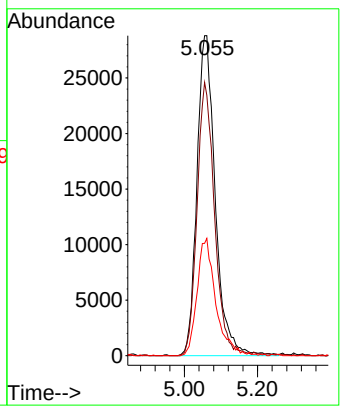





#15
Acrylonitrile
Concen: 226.925 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 53 Resp: 10049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.4 | 66.1 | 99.1 |
| 51 | 37.2 | 30.0 | 45.0 |

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VSTDCCC050

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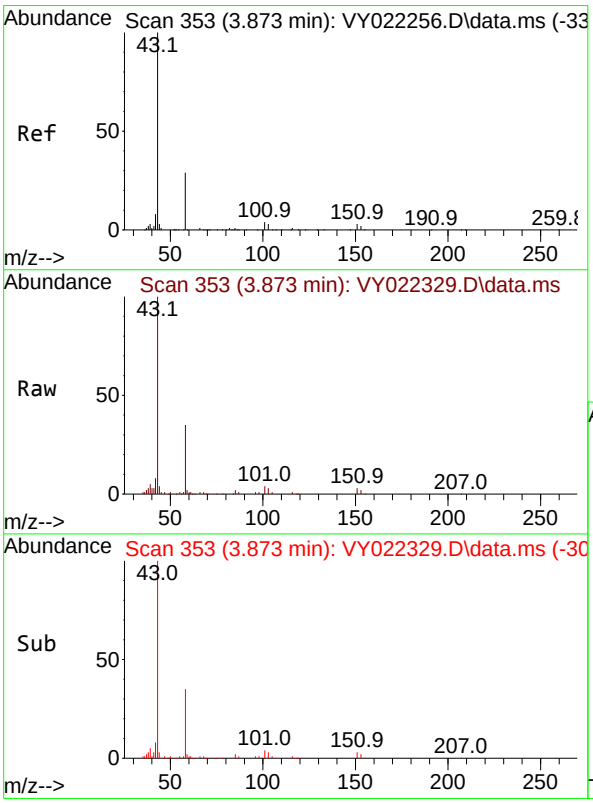
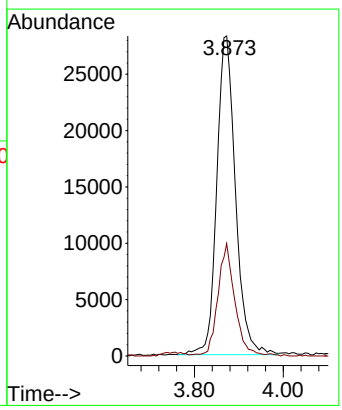
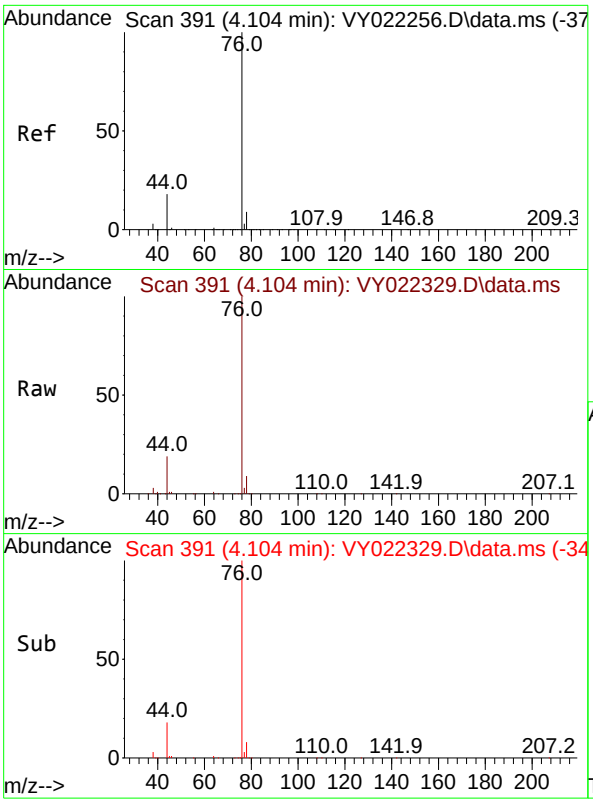



#16
Acetone
Concen: 223.009 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 43 Resp: 82432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.0 | 23.6 | 35.4 |

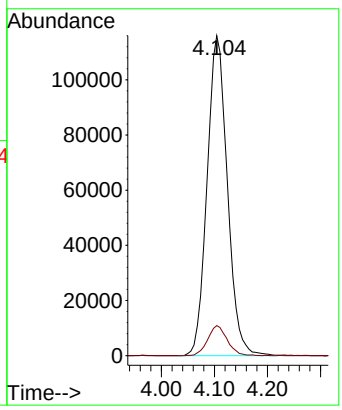





#17
Carbon Disulfide
Concen: 49.060 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 76 Resp: 30866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.4 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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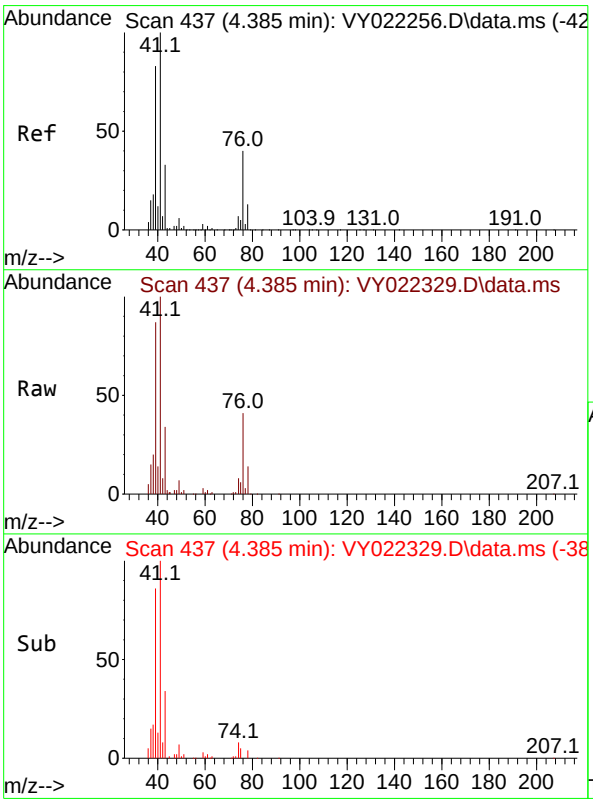
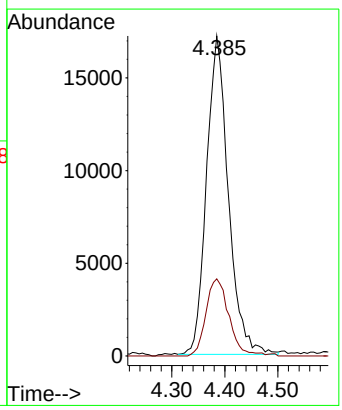
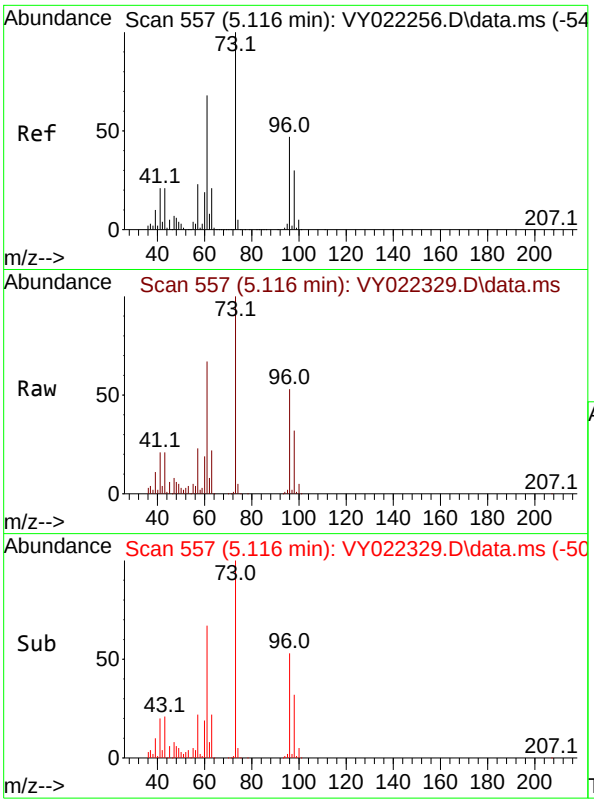



#18
Methyl Acetate
Concen: 42.141 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 43 Resp: 49112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.5 | 18.2 | 27.4 |

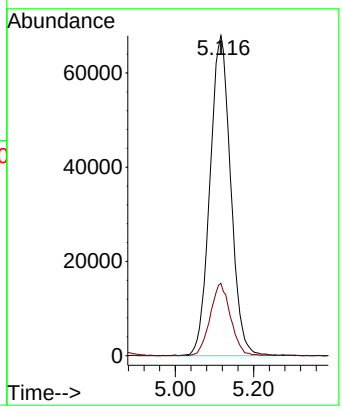





#19
Methyl tert-butyl Ether
Concen: 46.893 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 73 Resp: 24946

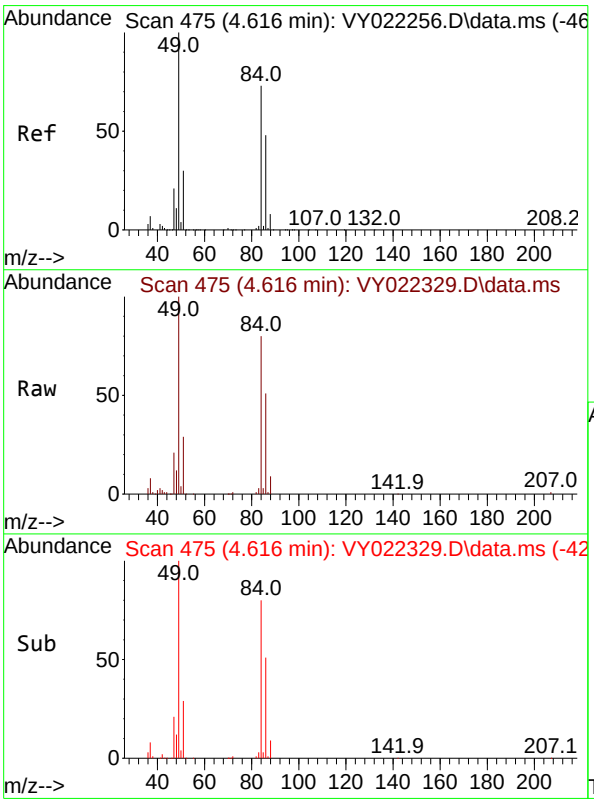
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.6 | 18.6 | 28.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

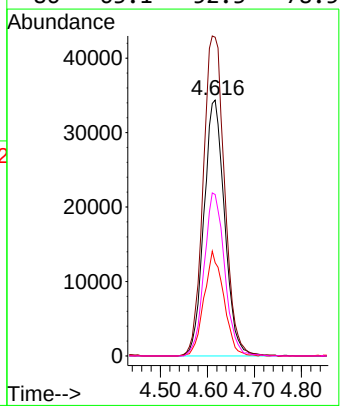
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

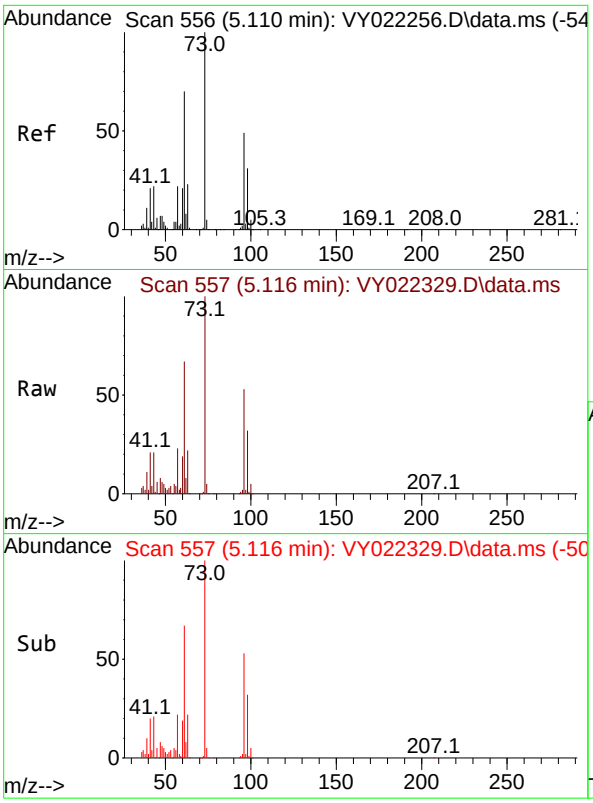



#20
Methylene Chloride
Concen: 43.941 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 84 Resp: 104952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 124.6 | 109.6 | 164.4 |
| 51 | 36.5 | 32.4 | 48.6 |
| 86 | 63.1 | 52.3 | 78.5 |

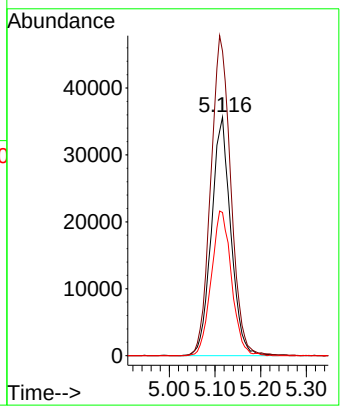





#21
trans-1,2-Dichloroethene
Concen: 49.353 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 96 Resp: 10510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 127.6 | 113.4 | 170.0 |
| 98 | 60.0 | 50.9 | 76.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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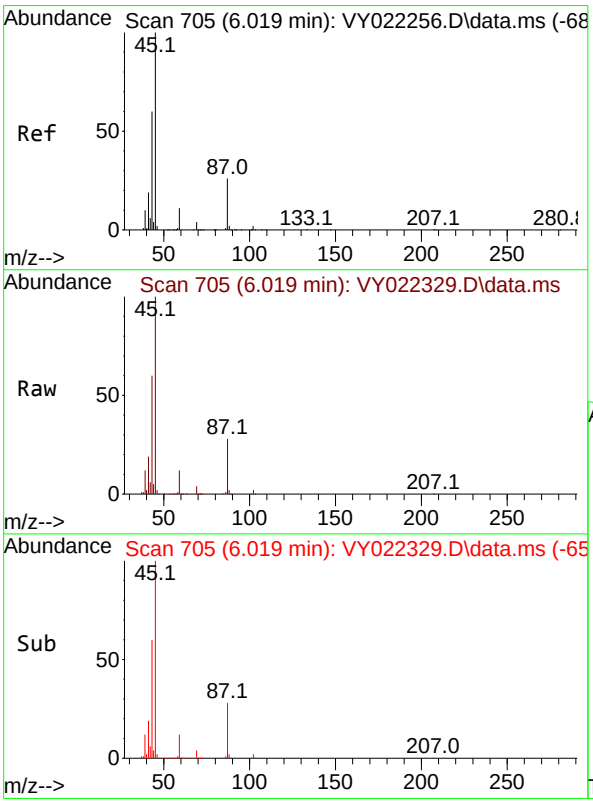
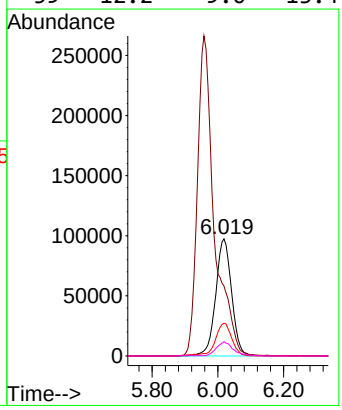
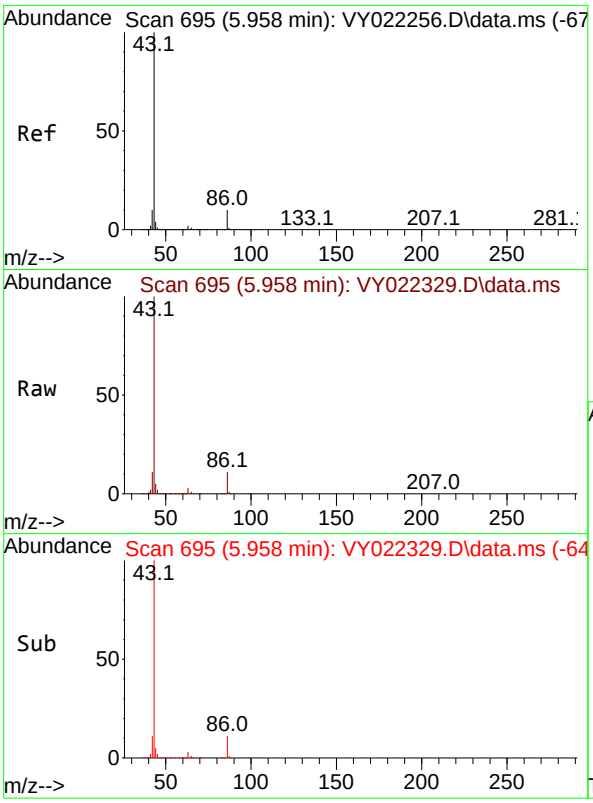



#22
Diisopropyl ether
Concen: 45.916 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 45 Resp: 328037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.6 | 48.2 | 72.2 |
| 87 | 28.0 | 21.4 | 32.0 |
| 59 | 12.2 | 9.0 | 13.4 |






#23
Vinyl Acetate
Concen: 219.054 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 43 Resp: 94545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.9 | 7.8 | 11.8 |

**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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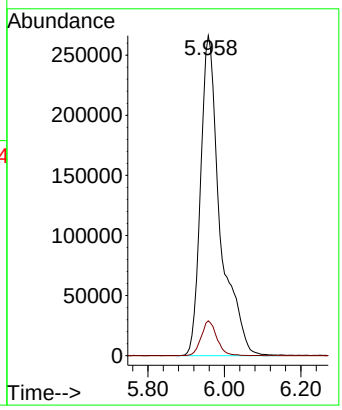
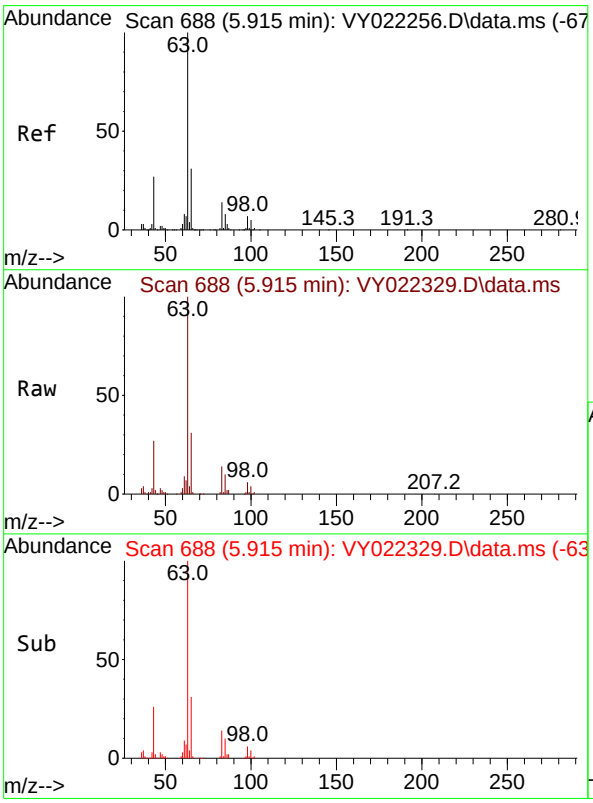
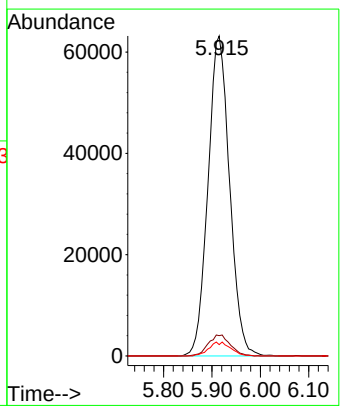


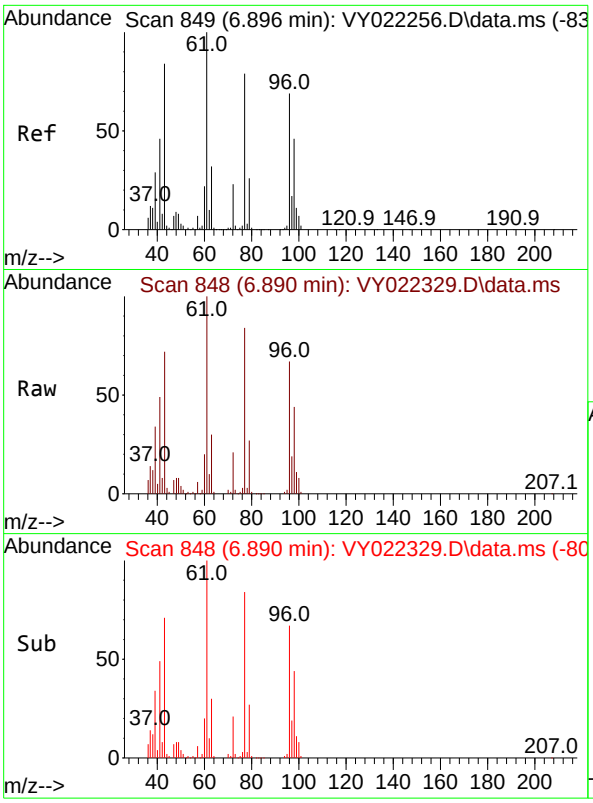




#24
1,1-Dichloroethane
Concen: 49.046 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 63 Resp: 195759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.4 | 3.5 | 10.5 |
| 100 | 3.6 | 2.4 | 7.2 |






#25
2-Butanone
Concen: 214.116 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 43 Resp: 13238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.9 | 22.1 | 33.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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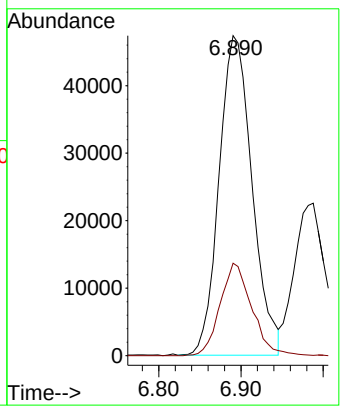
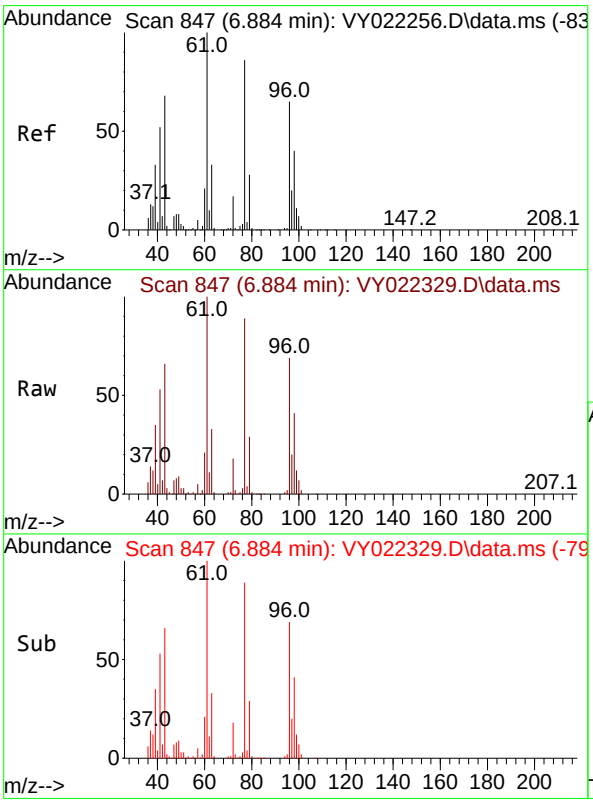
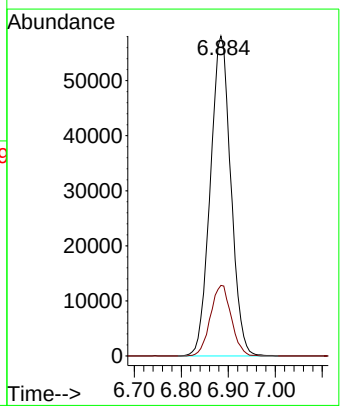


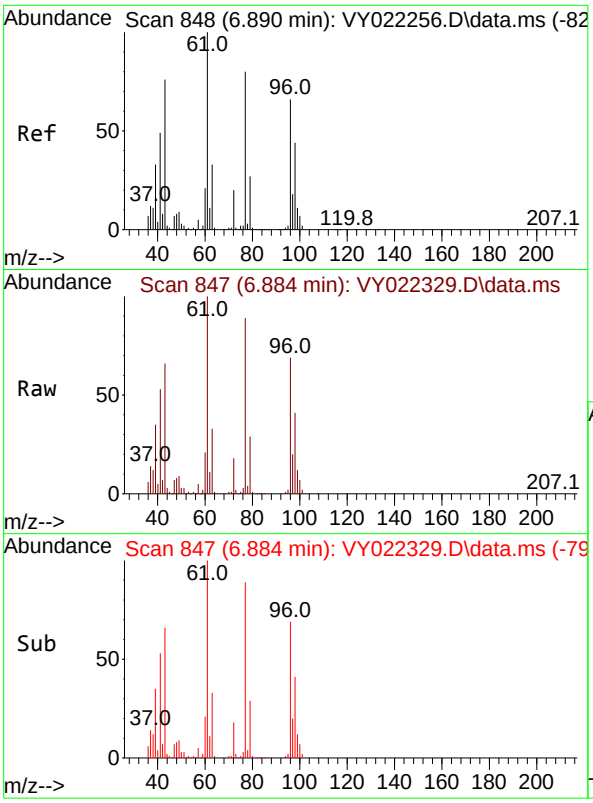




#26
2,2-Dichloropropane
Concen: 49.606 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 77 Resp: 176104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.4 | 11.2 | 33.5 |






#27
cis-1,2-Dichloroethene
Concen: 50.159 ug/l
RT: 6.884 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 96 Resp: 12326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 149.5 | 0.0 | 302.6 |
| 98 | 63.9 | 0.0 | 128.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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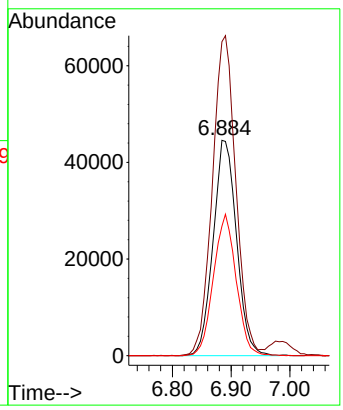
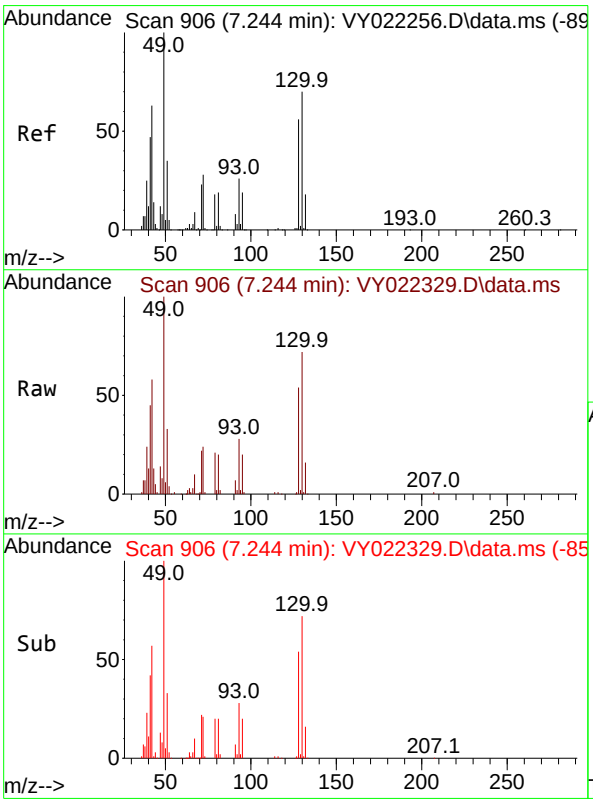
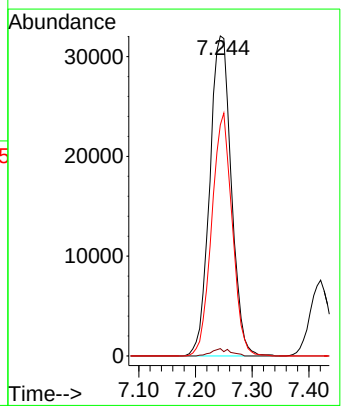


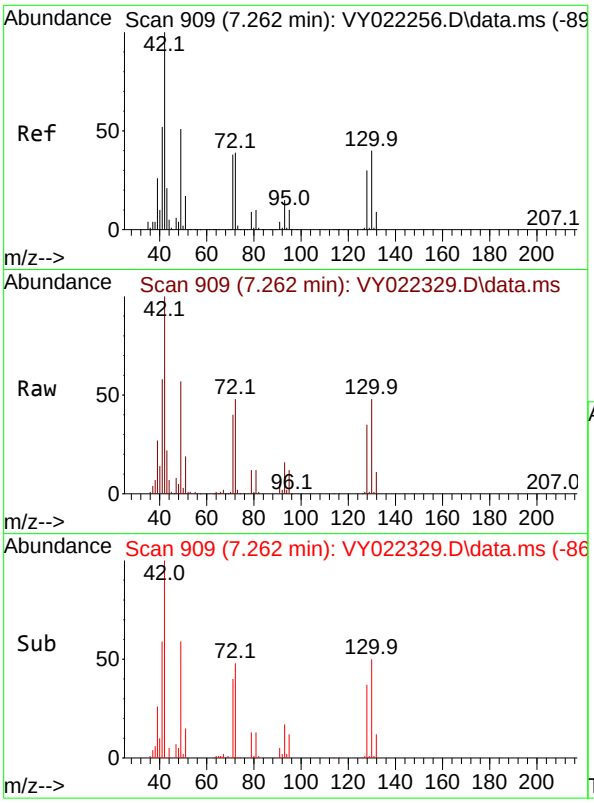




#28
Bromochloromethane
Concen: 49.834 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 49 Resp: 84842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 3.6 |
| 130 | 71.9 | 54.7 | 82.1 |






#29
Tetrahydrofuran
Concen: 215.541 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 42 Resp: 8573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 45.8 | 33.8 | 50.6 |
| 71 | 42.3 | 31.5 | 47.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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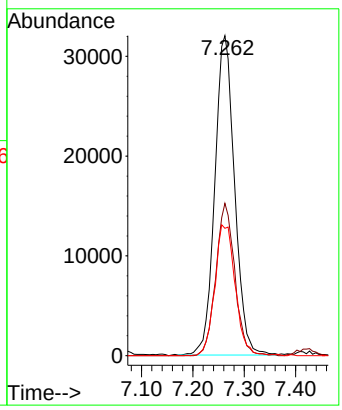
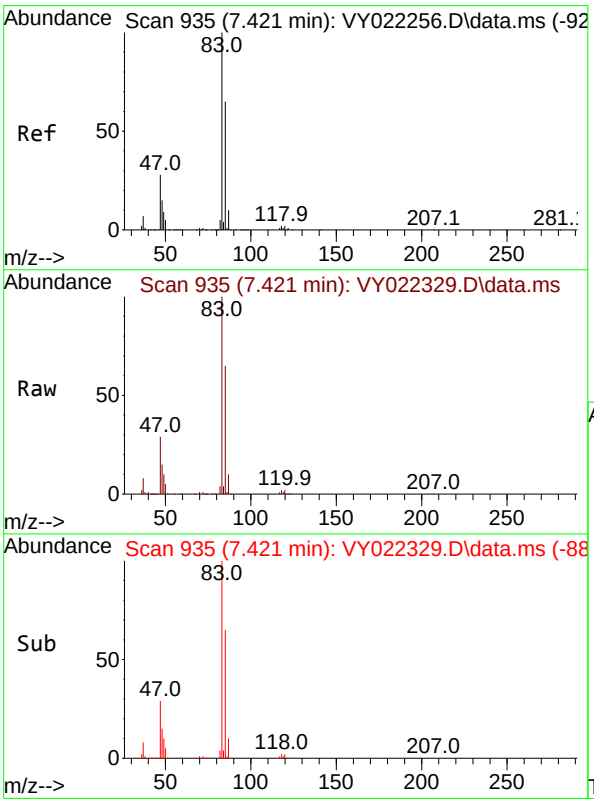
Supervised By :Semsettin Yesilyurt 05/21/2025

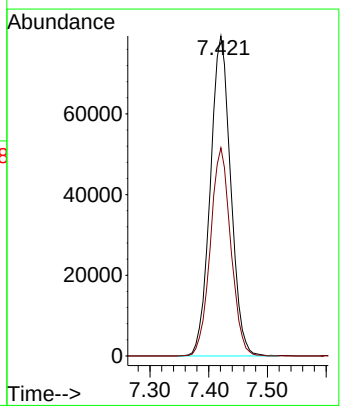


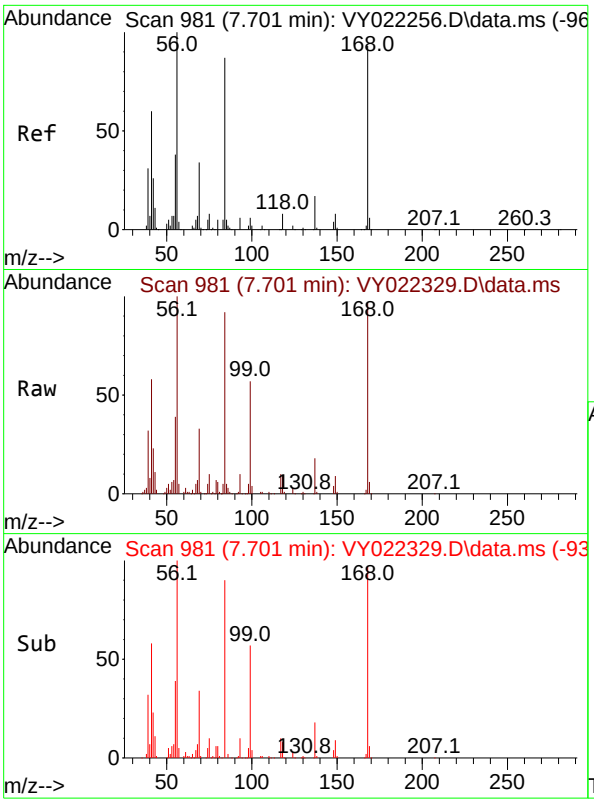




#30
Chloroform
Concen: 49.916 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 83 Resp: 191099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.0 | 51.8 | 77.8 |

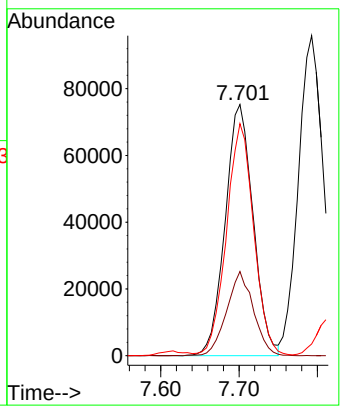





#31
Cyclohexane
Concen: 46.827 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 56 Resp: 18674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 33.4 | 27.4 | 41.2 |
| 84 | 91.1 | 70.0 | 105.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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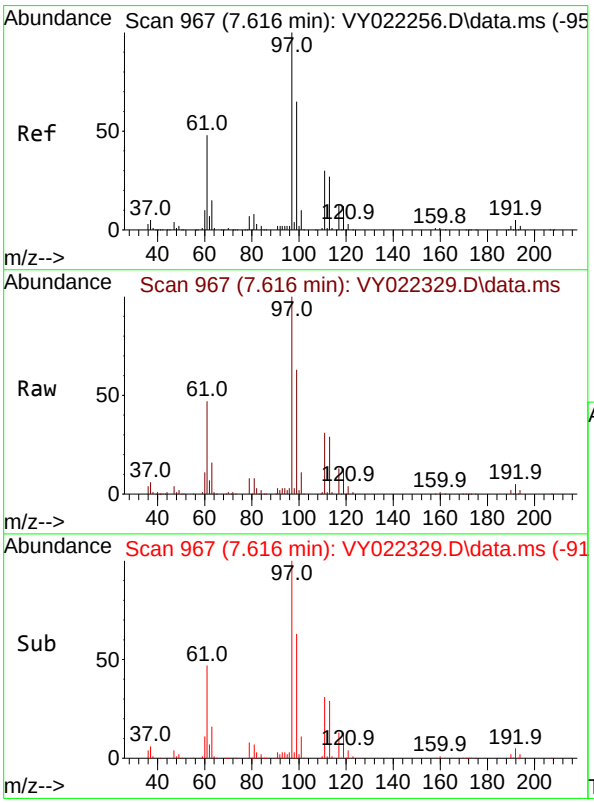
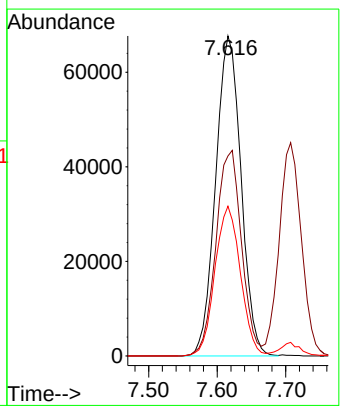
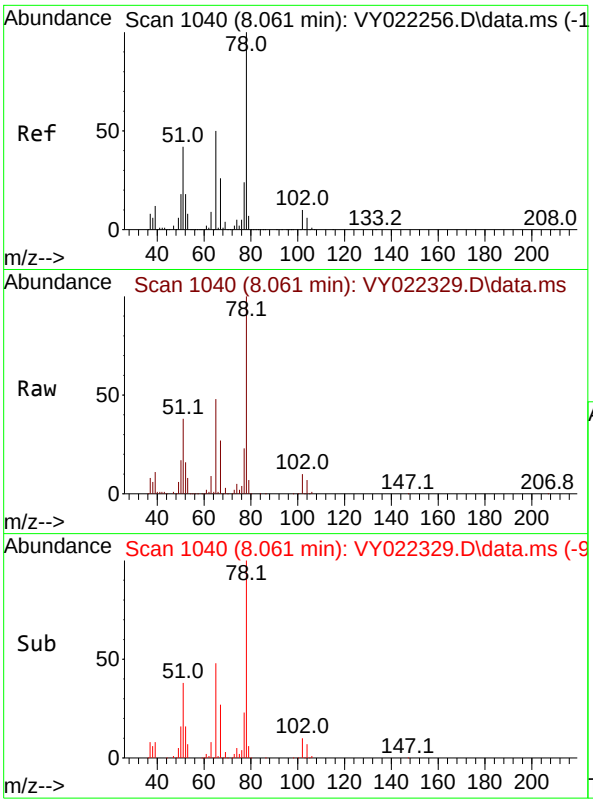



#32
1,1,1-Trichloroethane
Concen: 49.587 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 97 Resp: 174168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.0 | 51.4 | 77.0 |
| 61 | 47.0 | 38.1 | 57.1 |

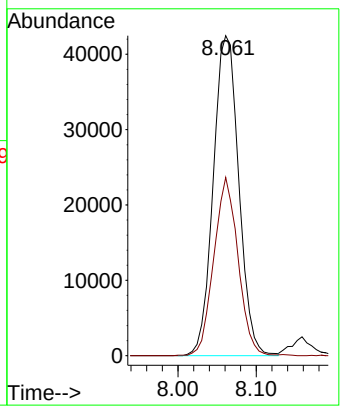





#33
1,2-Dichloroethane-d4
Concen: 48.805 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 65 Resp: 9621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.8 | 0.0 | 104.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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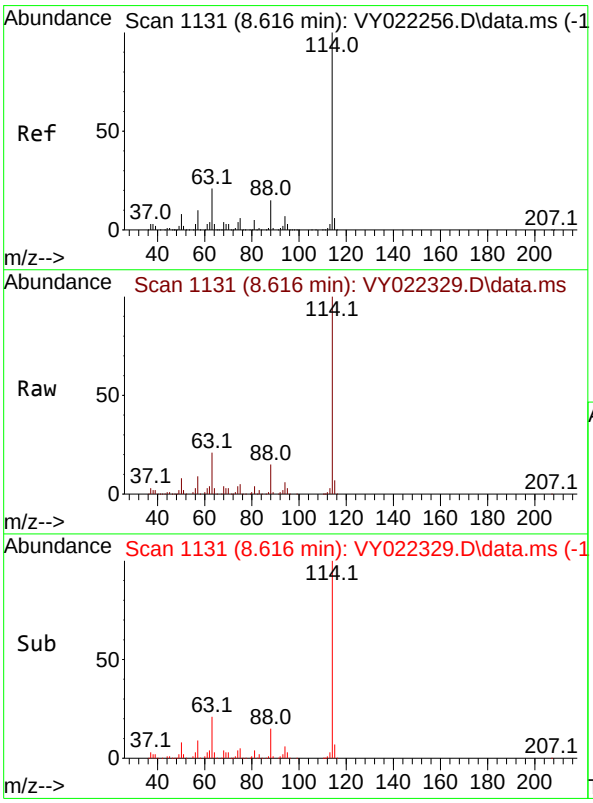
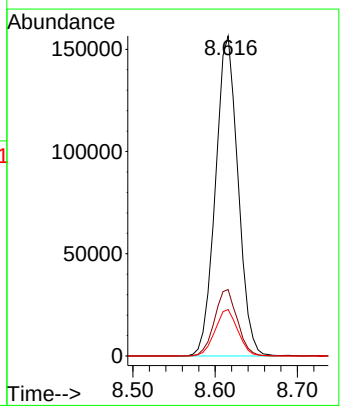
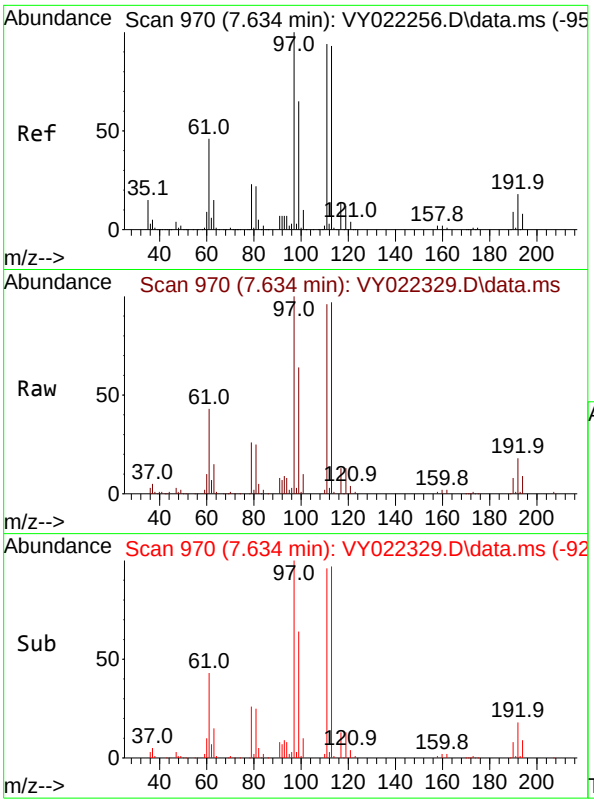



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:114 Resp: 298369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.8 | 0.0 | 41.0 |
| 88 | 14.5 | 0.0 | 29.4 |

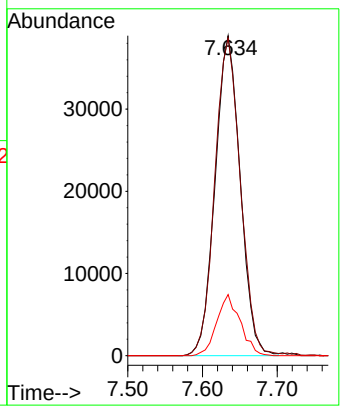





#35
Dibromofluoromethane
Concen: 51.076 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:113 Resp: 9095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.0 | 82.6 | 123.8 |
| 192 | 17.8 | 15.2 | 22.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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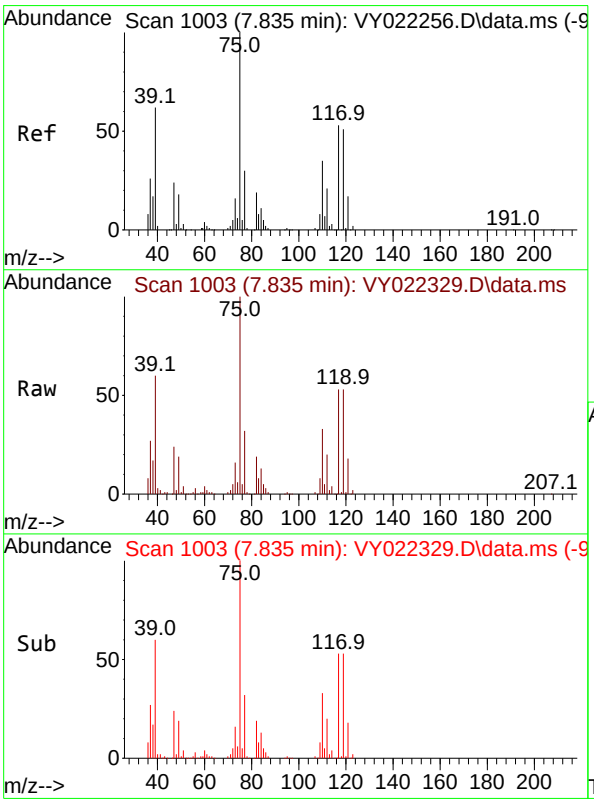
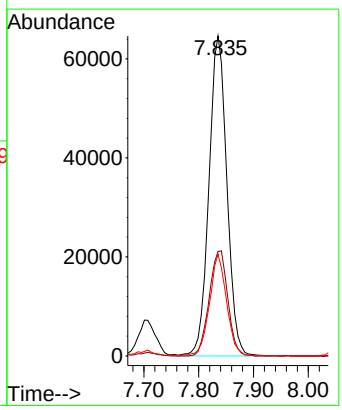
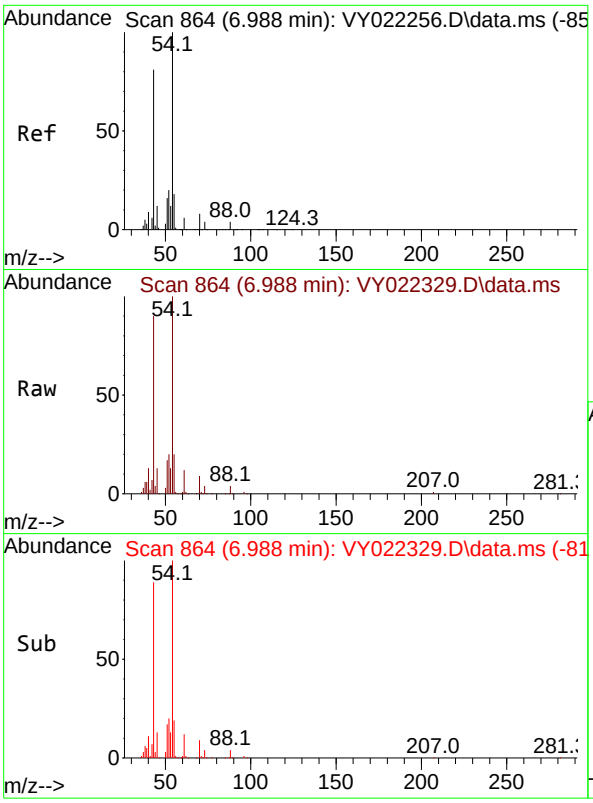



#36
1,1-Dichloropropene
Concen: 50.028 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 75 Resp: 146745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.0 | 16.6 | 49.8 |
| 77 | 30.3 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 43.038 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 43 Resp: 6074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.2 | 10.2 | 15.2 |
| 70 | 9.7 | 7.6 | 11.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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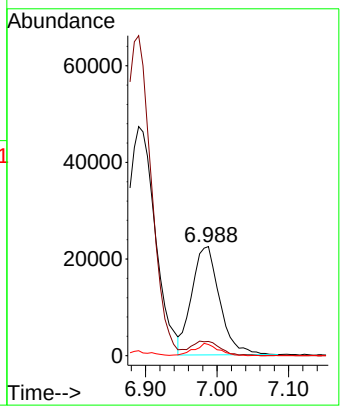
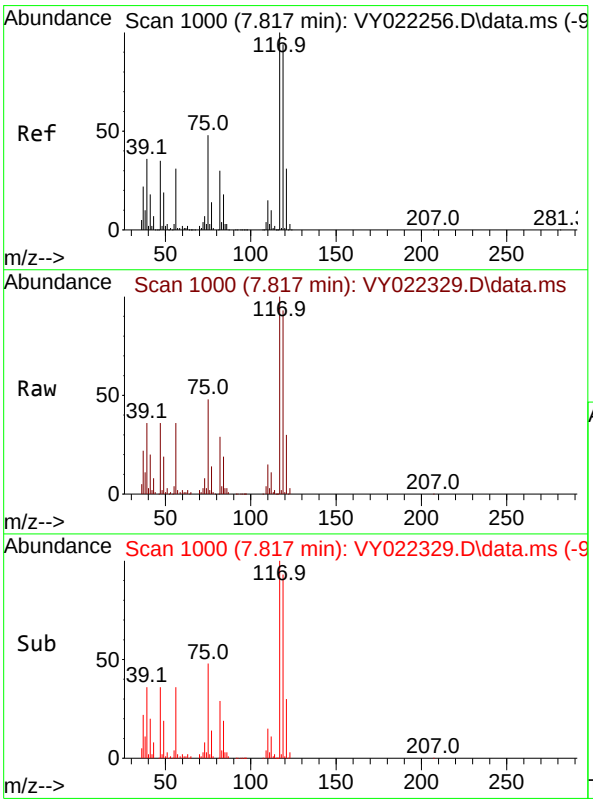
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

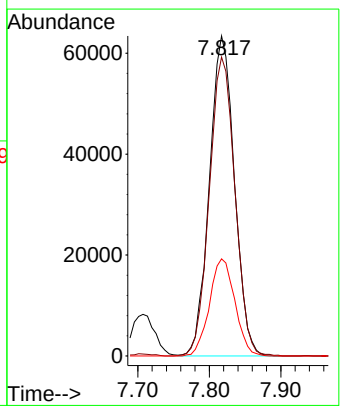


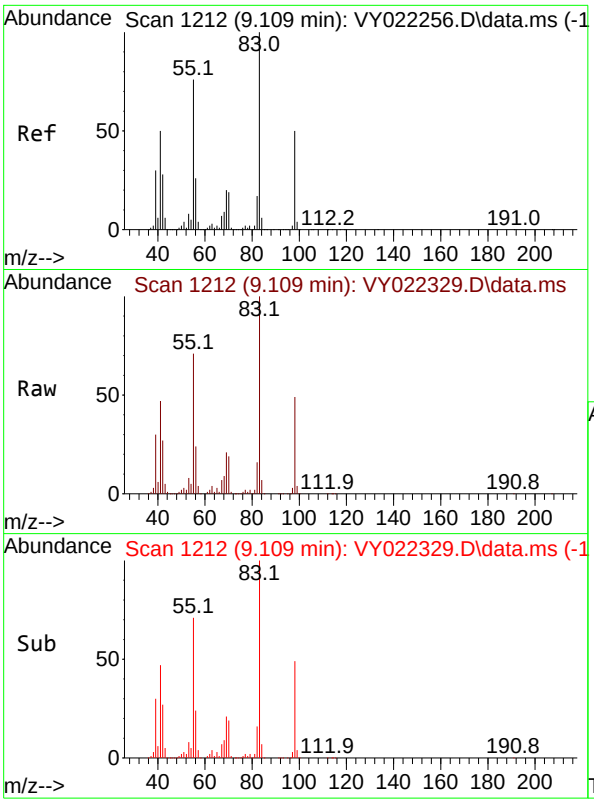




#38
Carbon Tetrachloride
Concen: 50.762 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:117 Resp: 154127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.3 | 75.3 | 112.9 |
| 121 | 30.4 | 24.7 | 37.1 |






#39
Methylcyclohexane
Concen: 50.127 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 83 Resp: 19754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 71.5 | 60.6 | 90.8 |
| 98 | 48.9 | 40.0 | 60.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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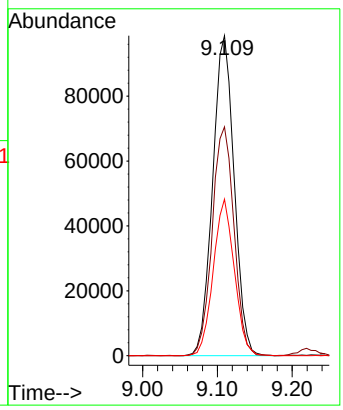
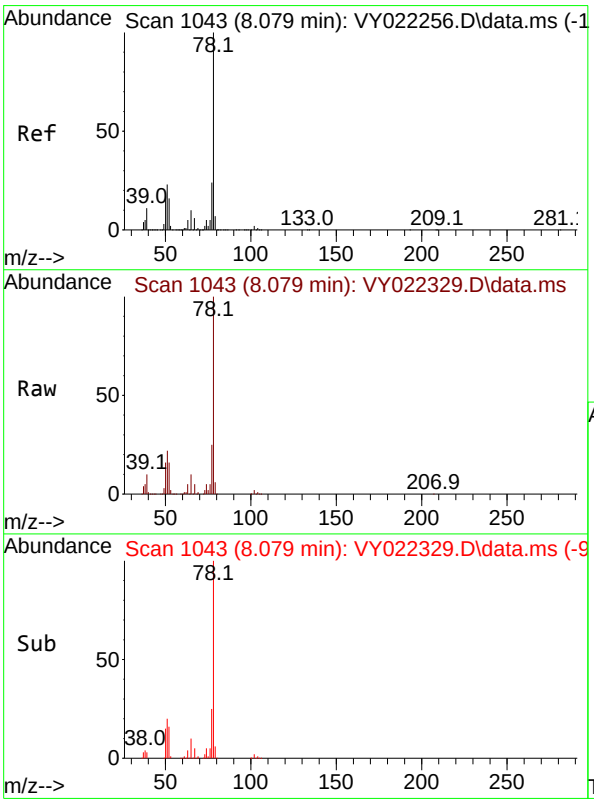
Supervised By :Semsettin Yesilyurt 05/21/2025

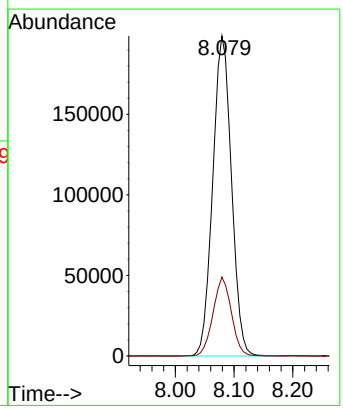


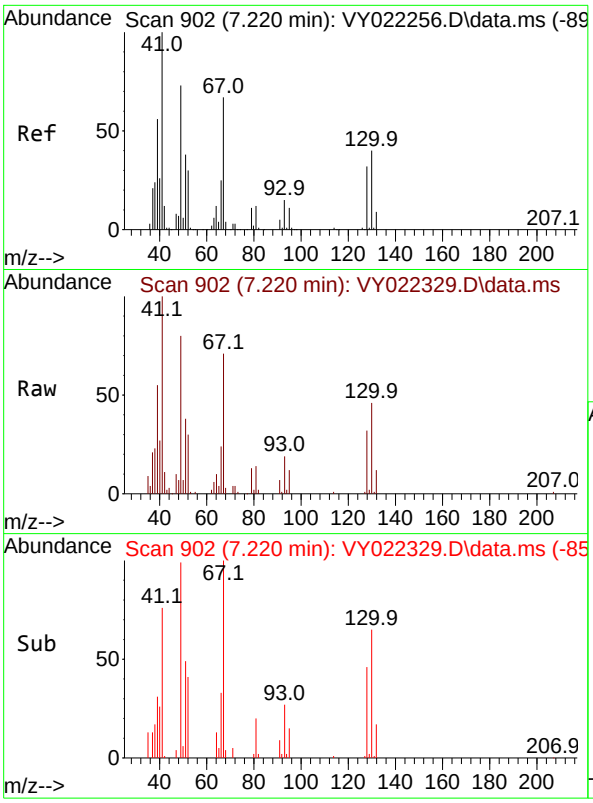




#40
Benzene
Concen: 50.555 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 78 Resp: 439609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.7 | 18.9 | 28.3 |

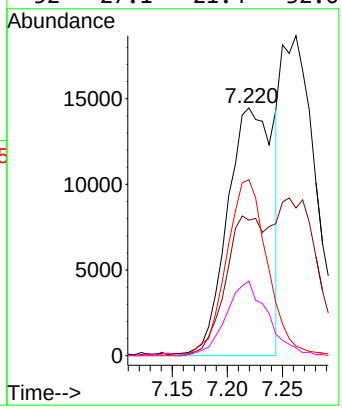





#41
Methacrylonitrile
Concen: 45.192 ug/l m
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 41 Resp: 4230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 43.3 | 39.1 | 58.7 |
| 67 | 63.2 | 47.1 | 70.7 |
| 52 | 27.1 | 21.4 | 32.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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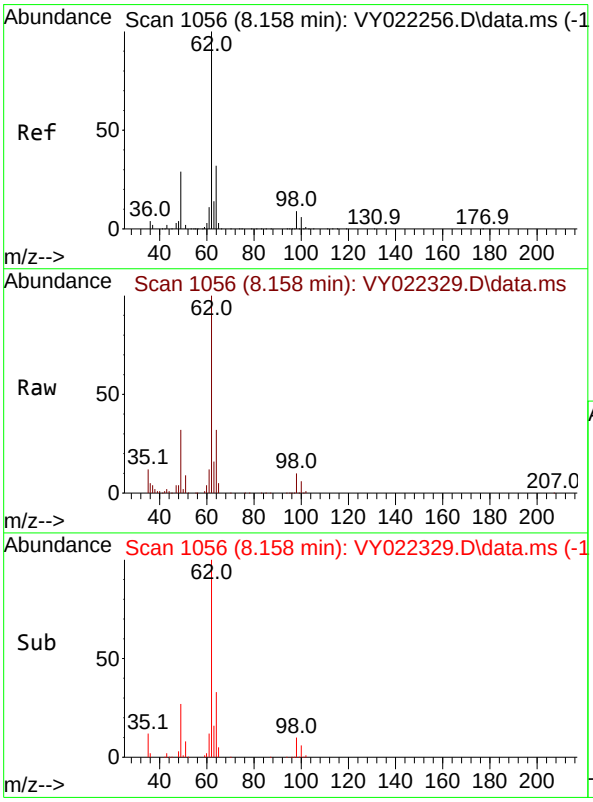
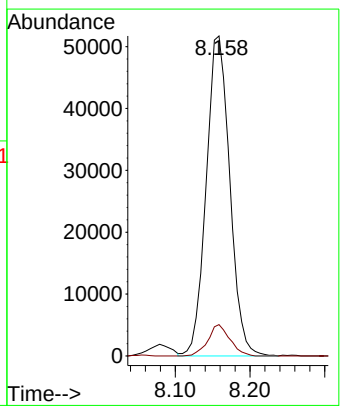
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

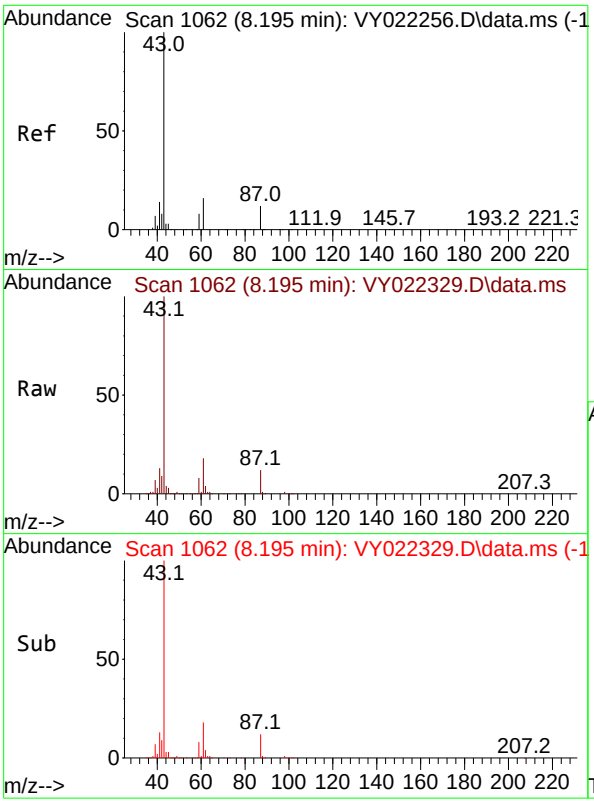



#42
1,2-Dichloroethane
Concen: 48.255 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 62 Resp: 113474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.1 | 0.0 | 18.4 |






#43
Isopropyl Acetate
Concen: 43.001 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 43 Resp: 13235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 28.5 | 15.1 | 22.7# |
| 87 | 13.0 | 9.7 | 14.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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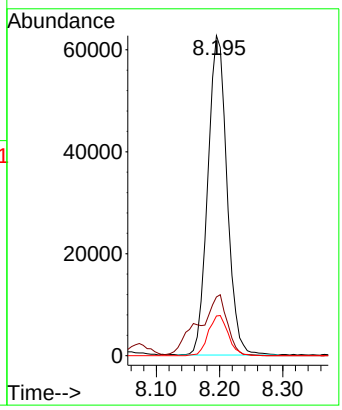
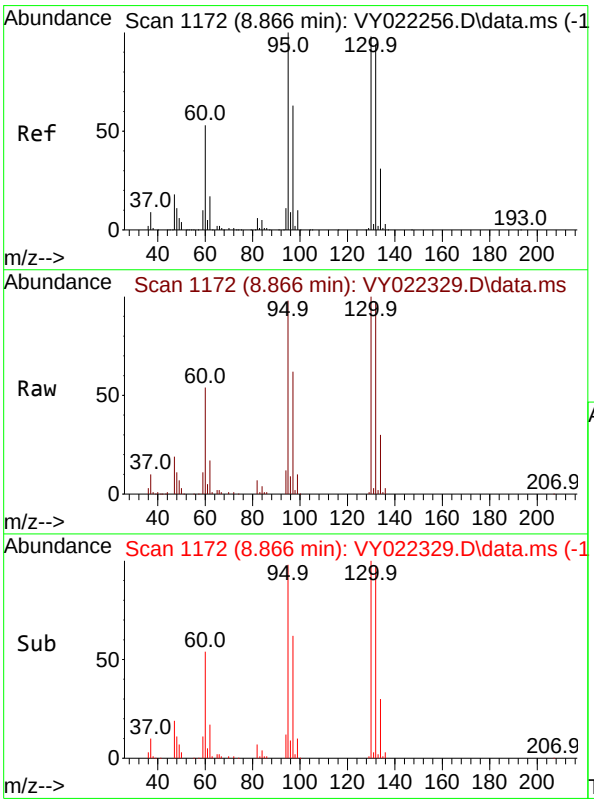
Supervised By :Semsettin Yesilyurt 05/21/2025

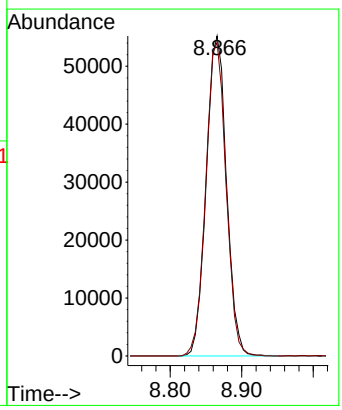


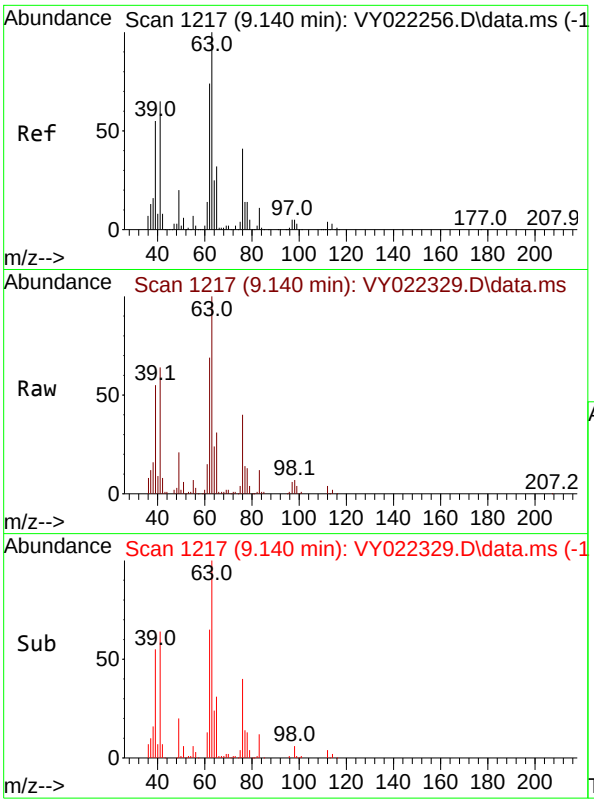




#44
Trichloroethene
Concen: 50.212 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:130 Resp: 108566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 97.9 | 0.0 | 204.8 |

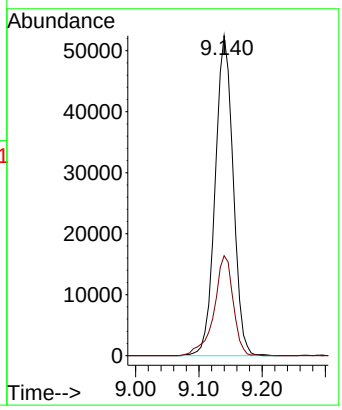





#45
1,2-Dichloropropane
Concen: 49.181 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 63 Resp: 10310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.2 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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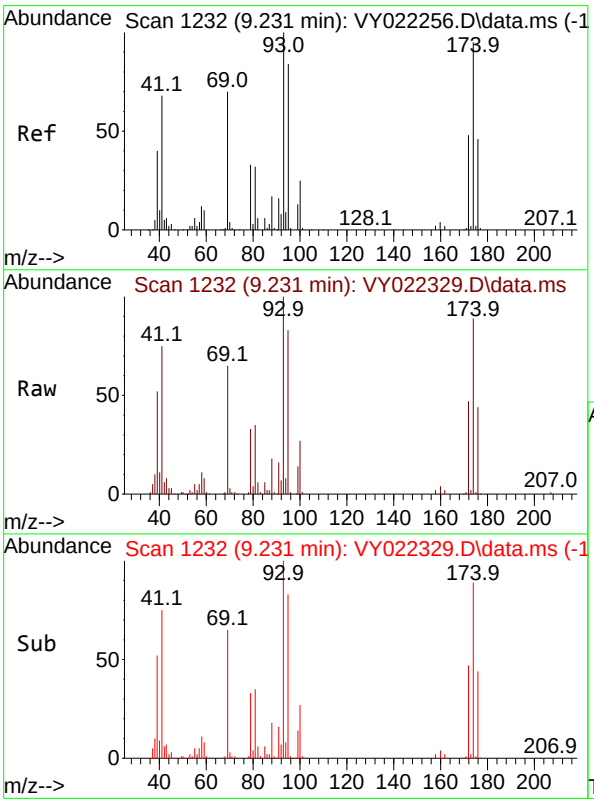
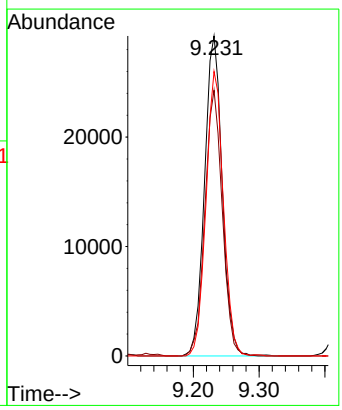
Supervised By :Semsettin Yesilyurt 05/21/2025

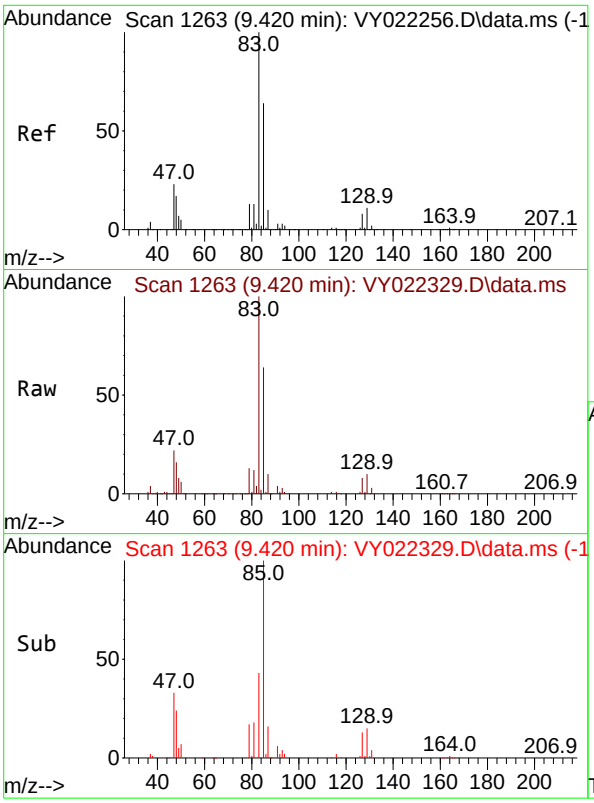



#46
Dibromomethane
Concen: 48.227 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 93 Resp: 54532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.0 | 65.2 | 97.8 |
| 174 | 87.8 | 74.3 | 111.5 |

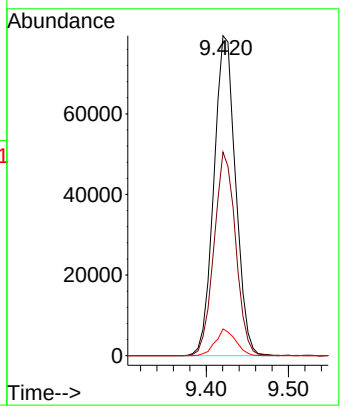





#47
Bromodichloromethane
Concen: 49.724 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 83 Resp: 14586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.7 | 51.1 | 76.7 |
| 127 | 8.4 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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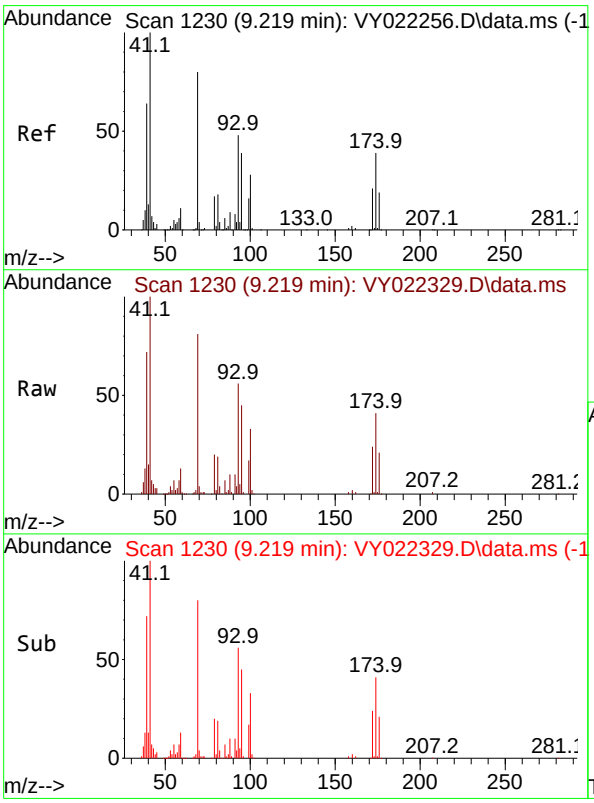
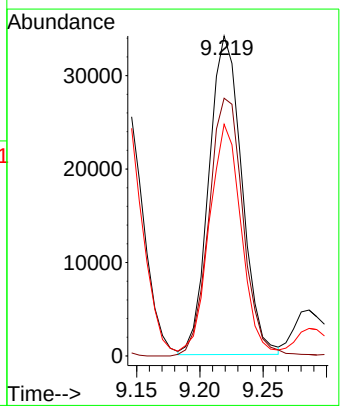
Supervised By :Semsettin Yesilyurt 05/21/2025

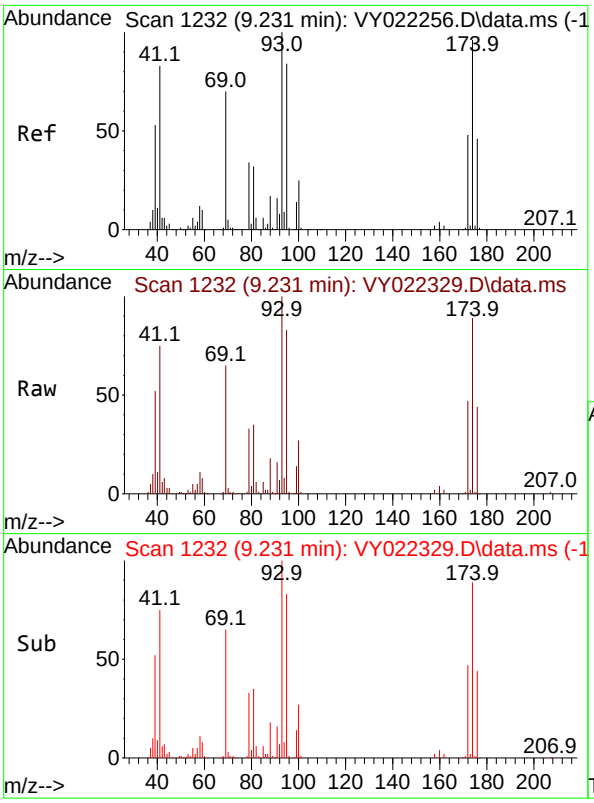



#48
Methyl methacrylate
Concen: 42.873 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 41 Resp: 61712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.2 | 63.5 | 95.3 |
| 39 | 68.0 | 50.8 | 76.2 |

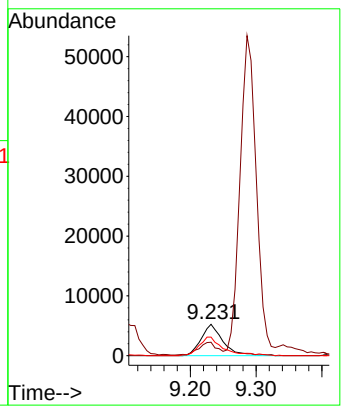





#49
1,4-Dioxane
Concen: 945.674 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 88 Resp: 1208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.0 | 28.5 | 42.7 |
| 58 | 65.6 | 61.4 | 92.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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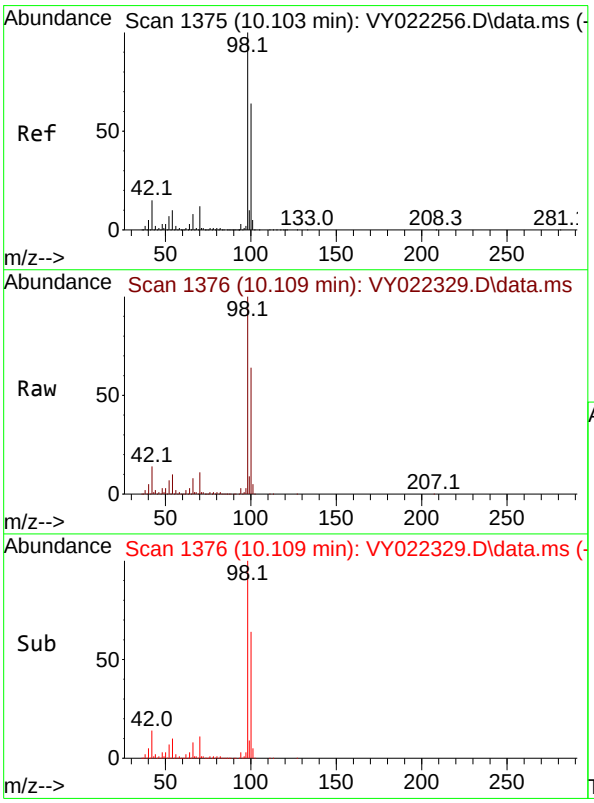
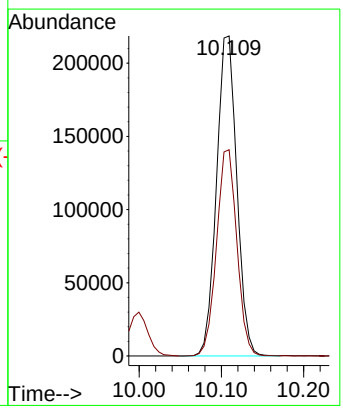
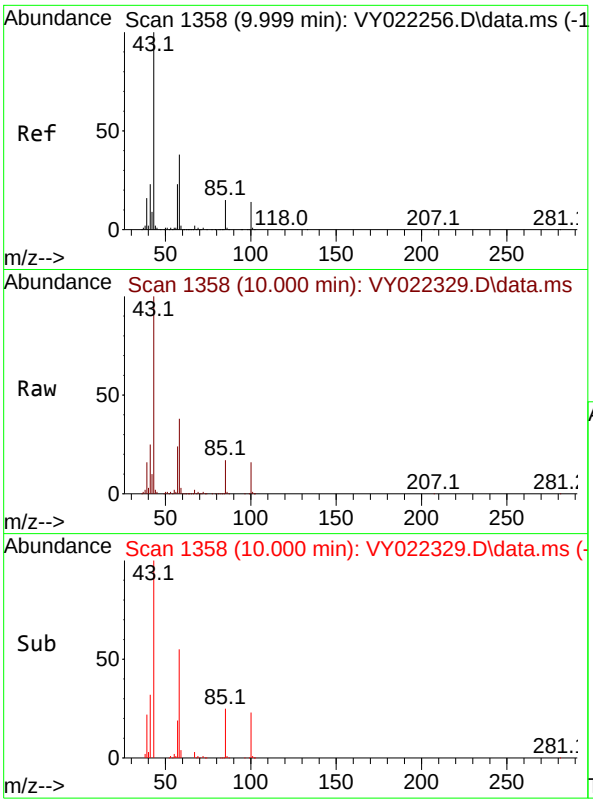



#50
Toluene-d8
Concen: 51.484 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 98 Resp: 375501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.5 | 51.8 | 77.8 |

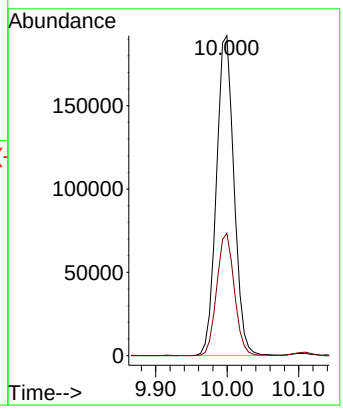





#51
4-Methyl-2-Pentanone
Concen: 217.386 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 43 Resp: 32831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.3 | 29.4 | 44.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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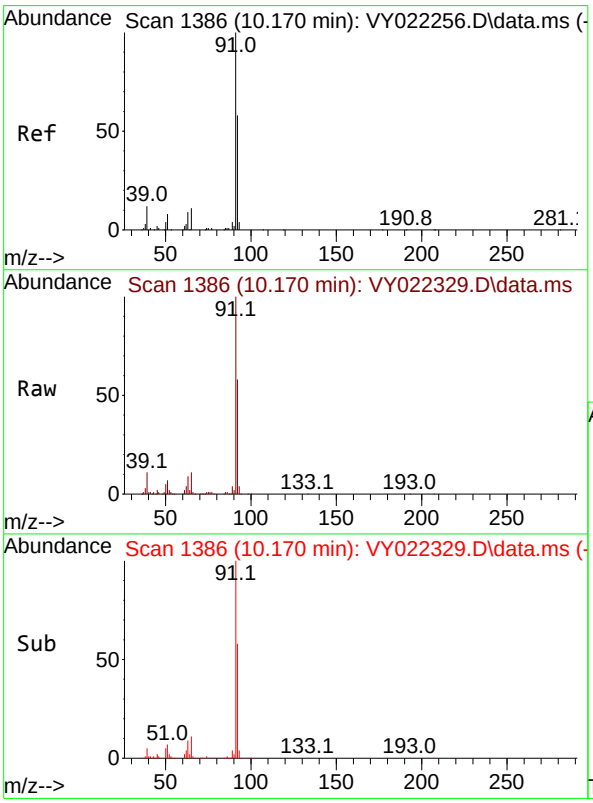
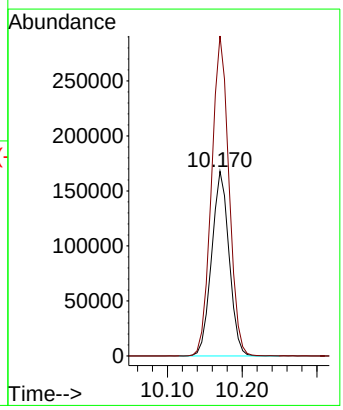
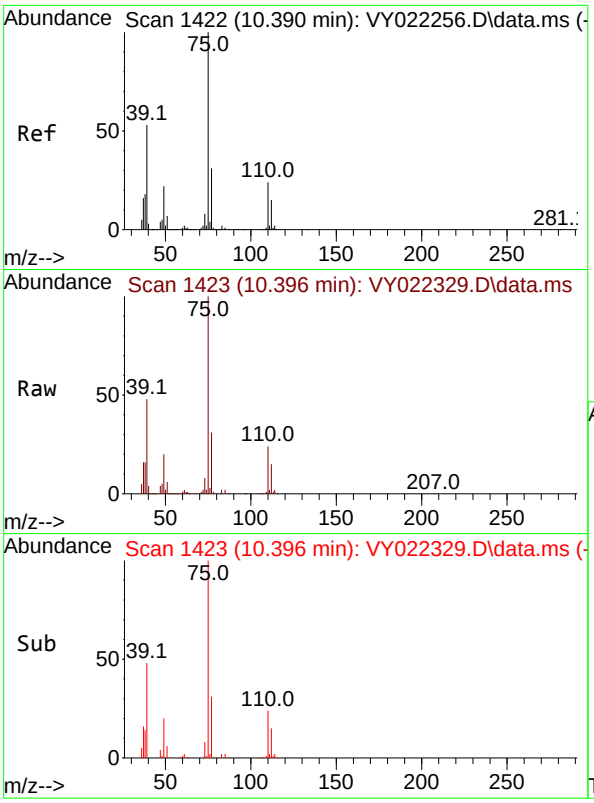



#52
Toluene
Concen: 49.403 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 92 Resp: 272032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.8 | 139.1 | 208.7 |

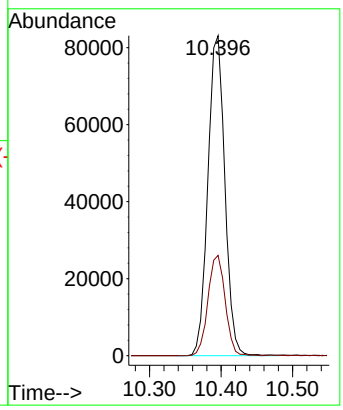





#53
t-1,3-Dichloropropene
Concen: 47.744 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 75 Resp: 13668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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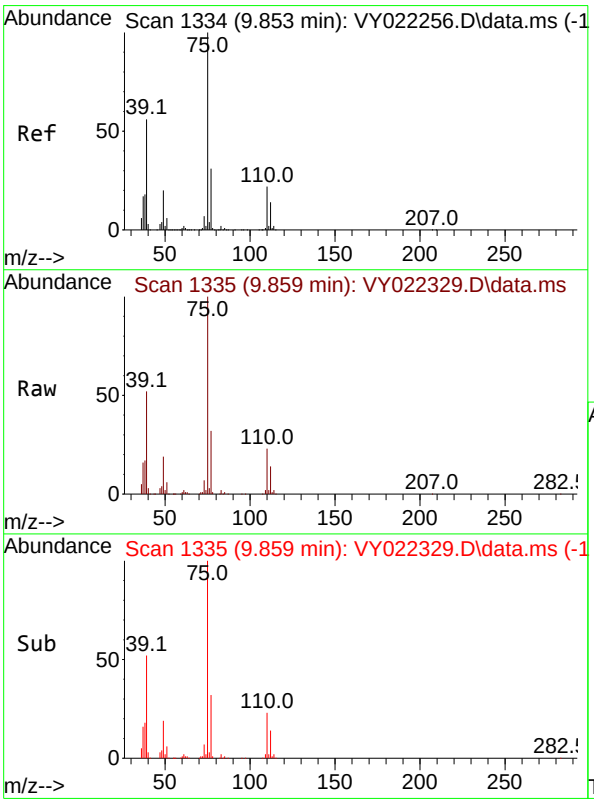
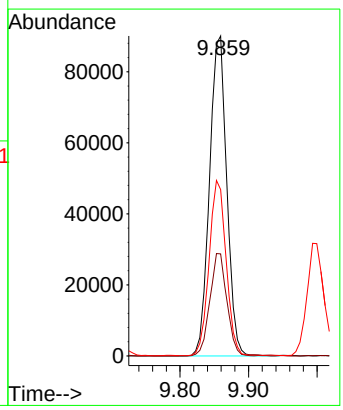
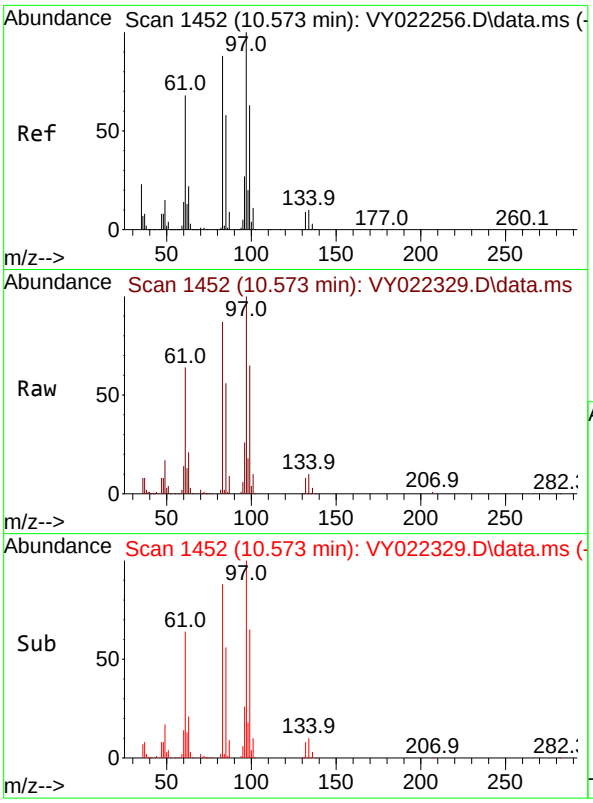



#54
cis-1,3-Dichloropropene
Concen: 48.006 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 75 Resp: 157453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.1 | 37.7 |
| 39 | 51.9 | 44.5 | 66.7 |

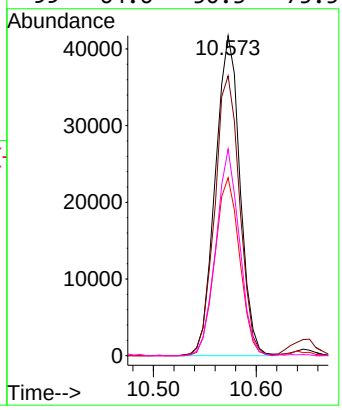





#55
1,1,2-Trichloroethane
Concen: 48.082 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 97 Resp: 6962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.5 | 70.3 | 105.5 |
| 85 | 55.6 | 46.2 | 69.4 |
| 99 | 64.6 | 50.3 | 75.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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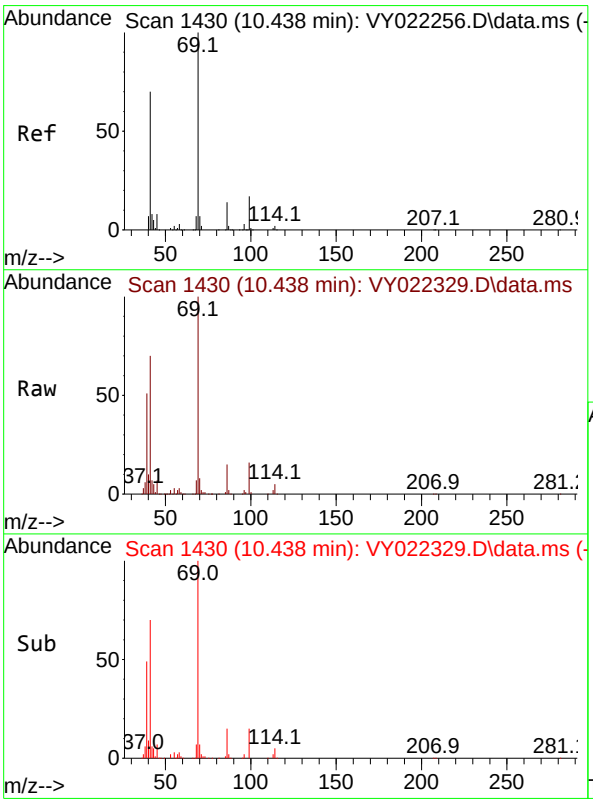
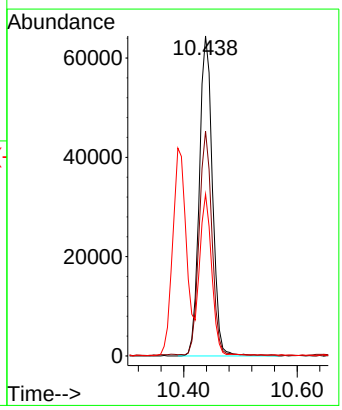
Supervised By :Semsettin Yesilyurt 05/21/2025

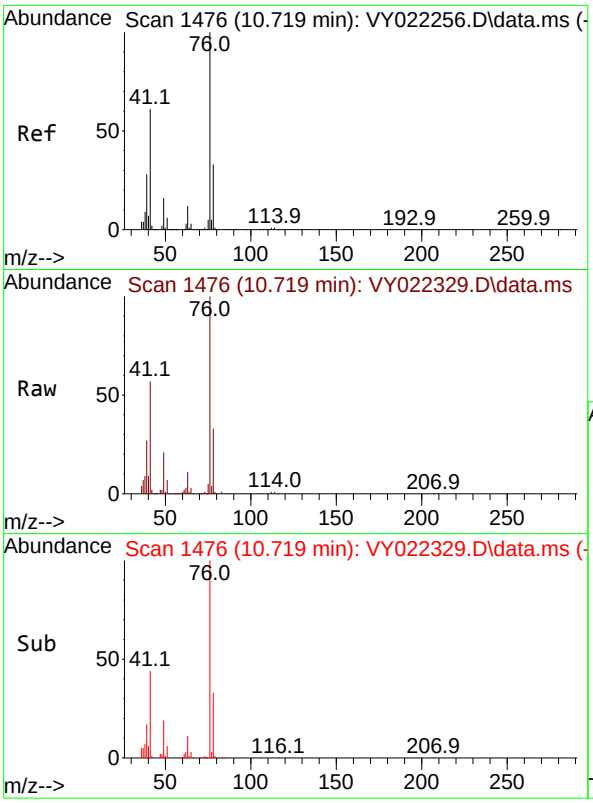



#56
Ethyl methacrylate
Concen: 45.862 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 69 Resp: 103441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 68.0 | 56.5 | 84.7 |
| 39 | 44.0 | 37.1 | 55.7 |

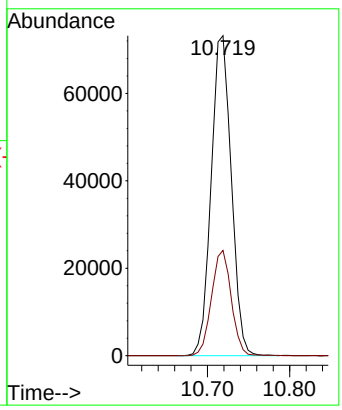





#57
1,3-Dichloropropane
Concen: 48.388 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 76 Resp: 12448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.3 | 25.8 | 38.8 |




**Instrument :**
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VSTDCCC050

**Manual Integrations**
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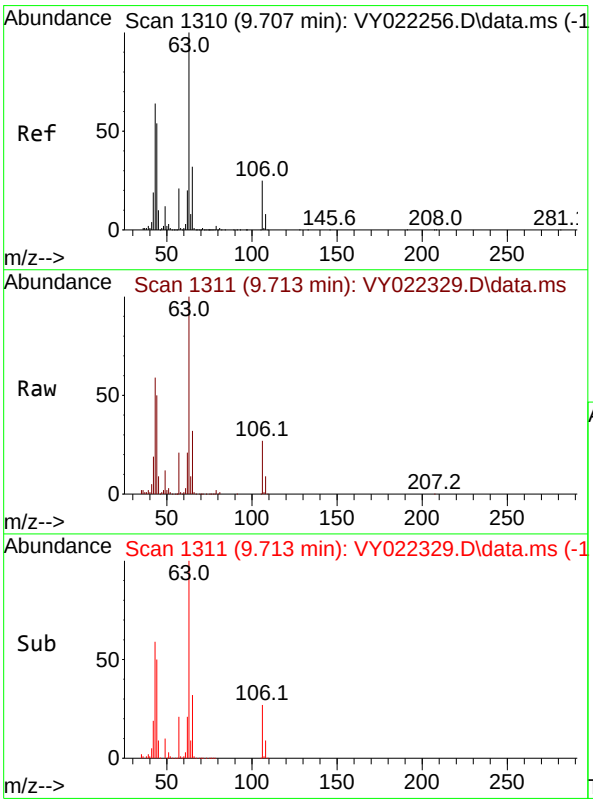
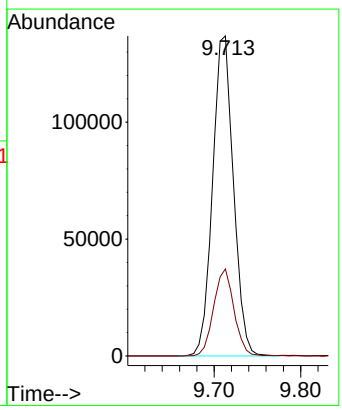
Supervised By :Semsettin Yesilyurt 05/21/2025

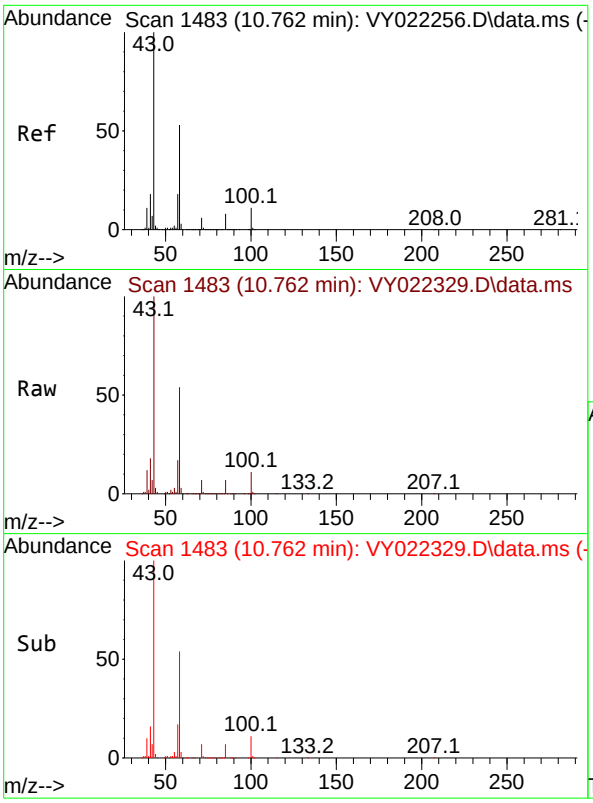



#58
2-Chloroethyl Vinyl ether
Concen: 226.074 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 63 Resp: 228868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.5 | 21.0 | 31.4 |






#59
2-Hexanone
Concen: 214.015 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 43 Resp: 21671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.2 | 26.1 | 78.3 |

**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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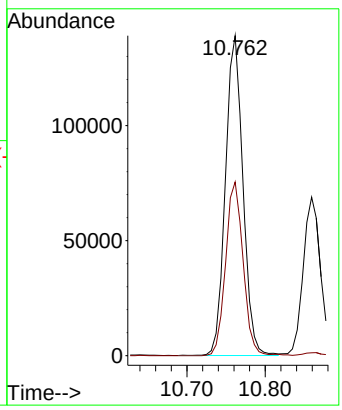
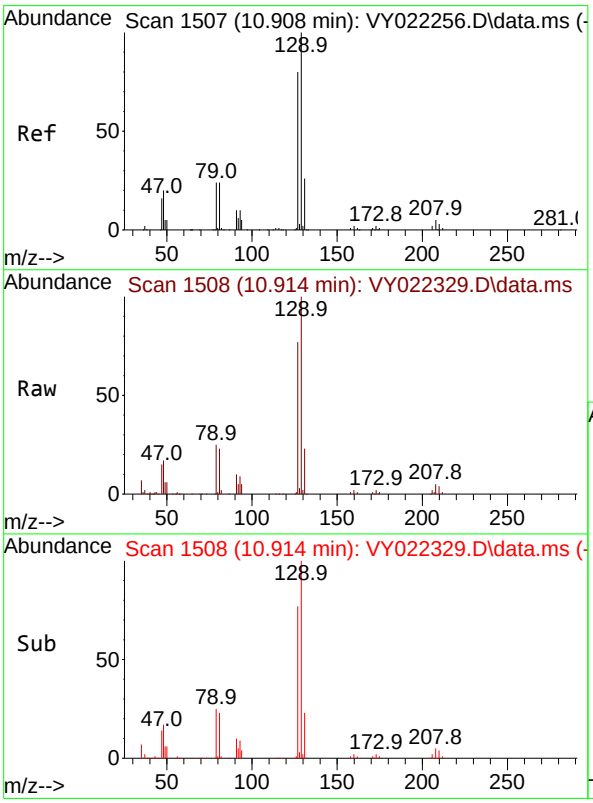
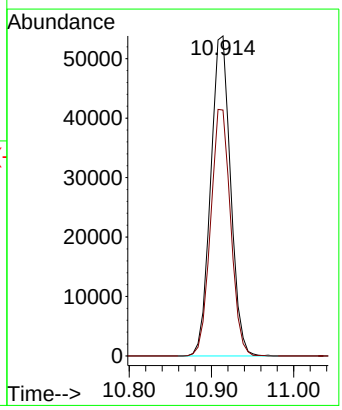


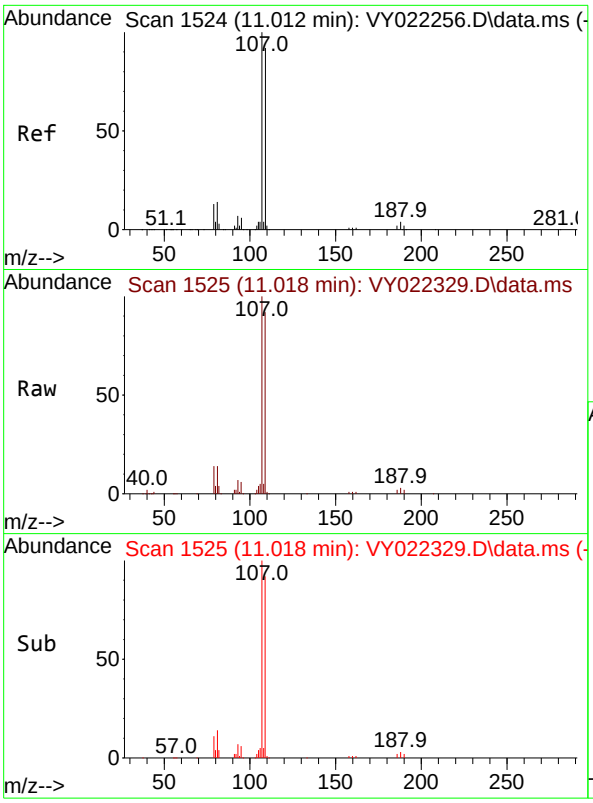




#60
Dibromochloromethane
Concen: 48.185 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:129 Resp: 90557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.3 | 38.6 | 115.7 |

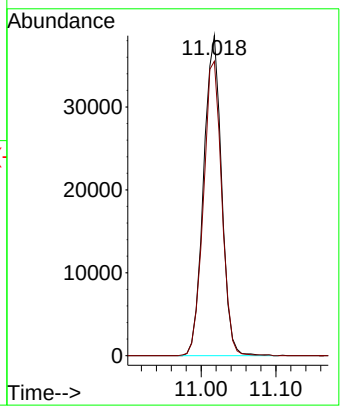





#61
1,2-Dibromoethane
Concen: 47.659 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:107 Resp: 6431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.8 | 74.6 | 111.8 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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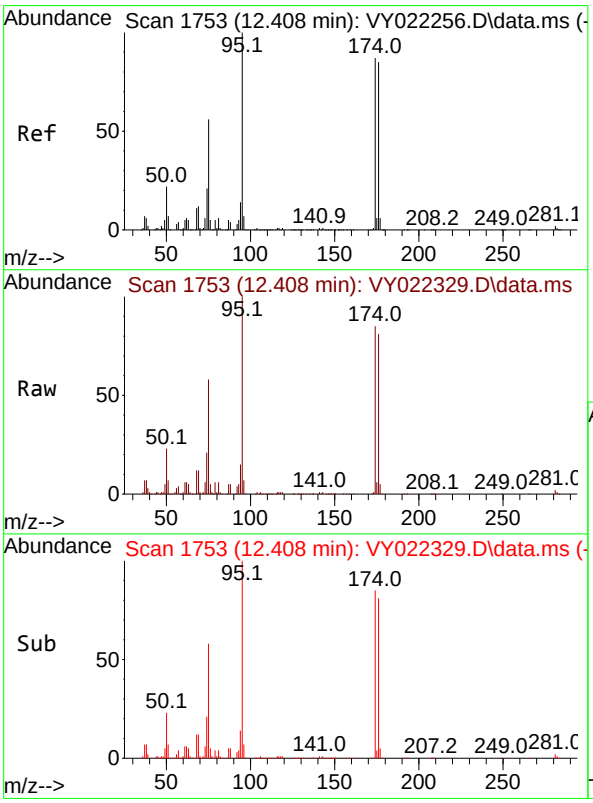
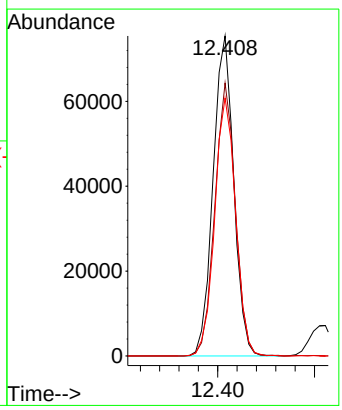
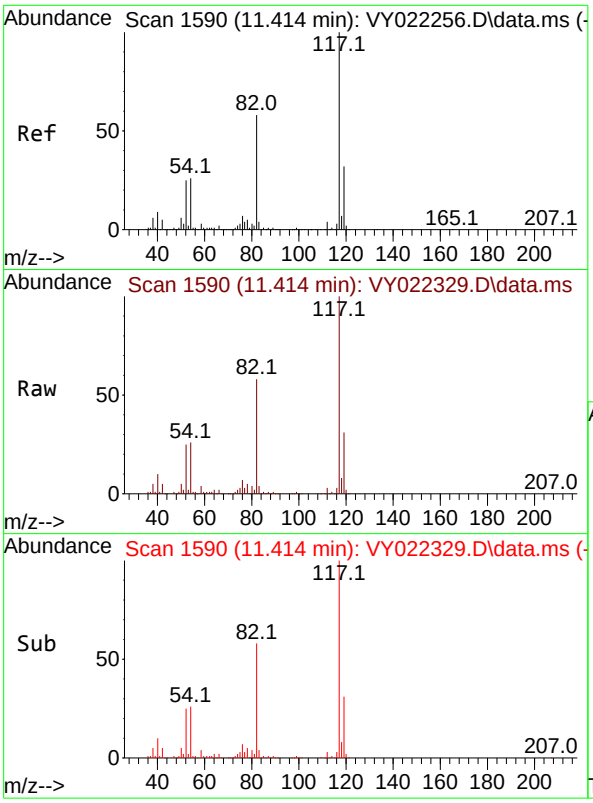



#62
4-Bromofluorobenzene
Concen: 48.365 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 95 Resp: 111811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.7 | 0.0 | 166.8 |
| 176 | 81.8 | 0.0 | 160.8 |

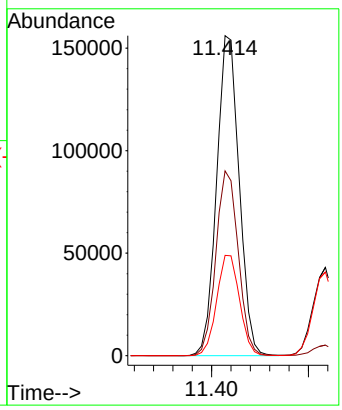





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:117 Resp: 25239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.7 | 46.6 | 70.0 |
| 119 | 31.3 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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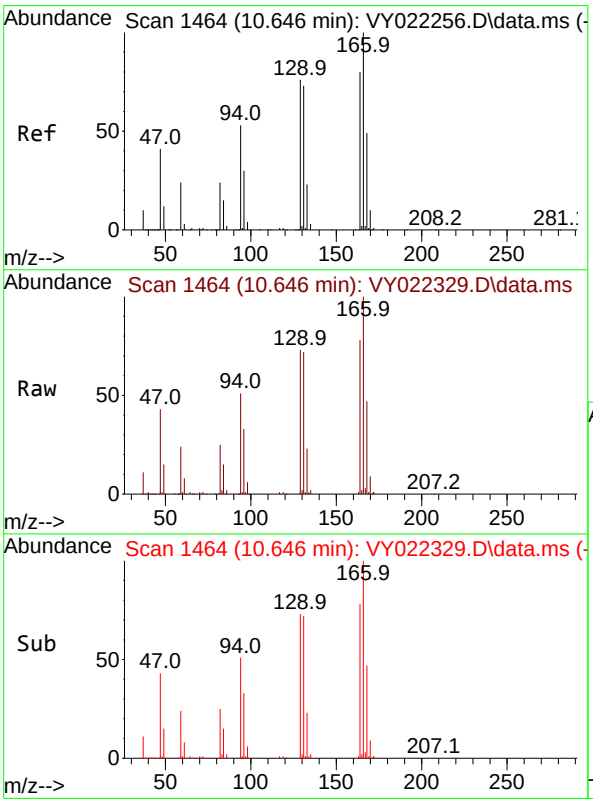
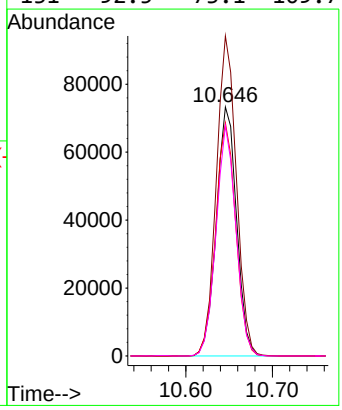
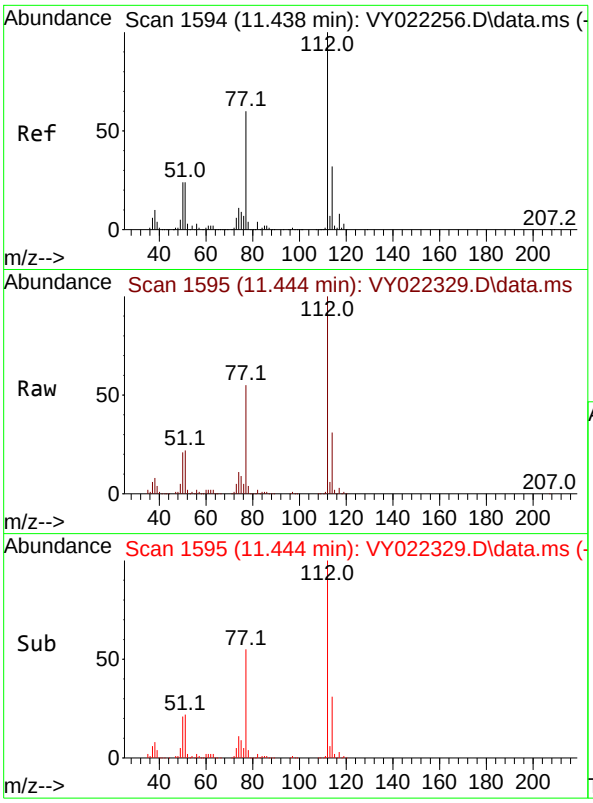



#64
Tetrachloroethene
Concen: 50.915 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:164 Resp: 118778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.5 | 100.4 | 150.6 |
| 129 | 93.6 | 76.4 | 114.6 |
| 131 | 92.5 | 73.1 | 109.7 |

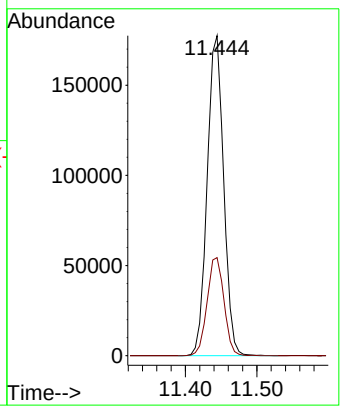





#65
Chlorobenzene
Concen: 49.729 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:112 Resp: 28316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 30.7 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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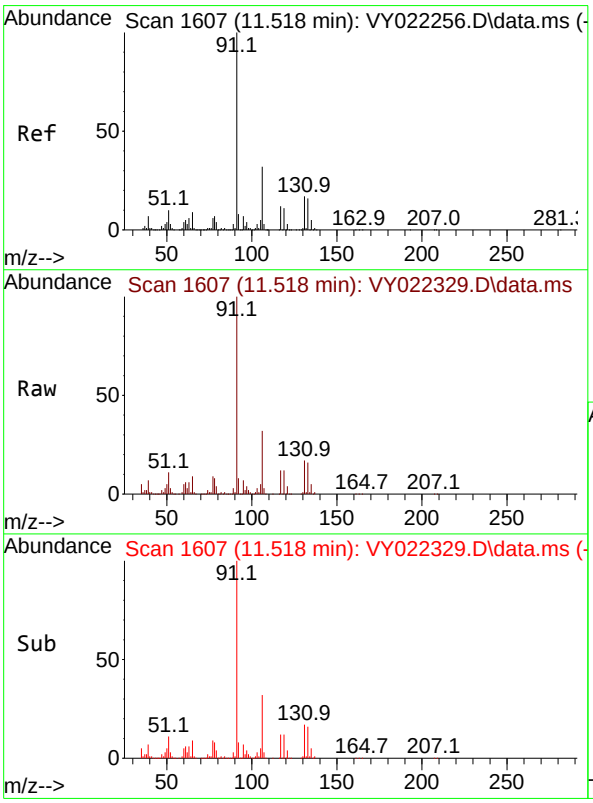
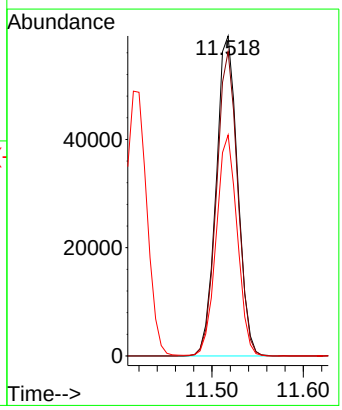
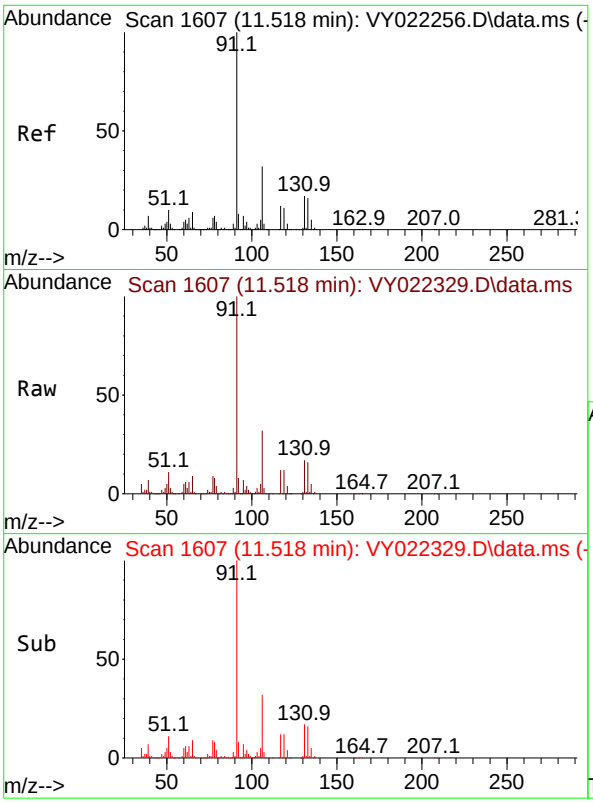



#66
1,1,1,2-Tetrachloroethane
Concen: 49.374 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:131 Resp: 96653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.7 | 47.3 | 141.9 |
| 119 | 67.6 | 33.1 | 99.2 |

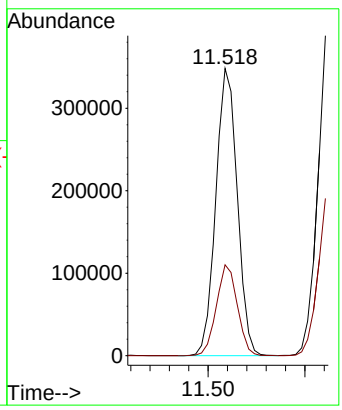





#67
Ethyl Benzene
Concen: 50.166 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 91 Resp: 53498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.6 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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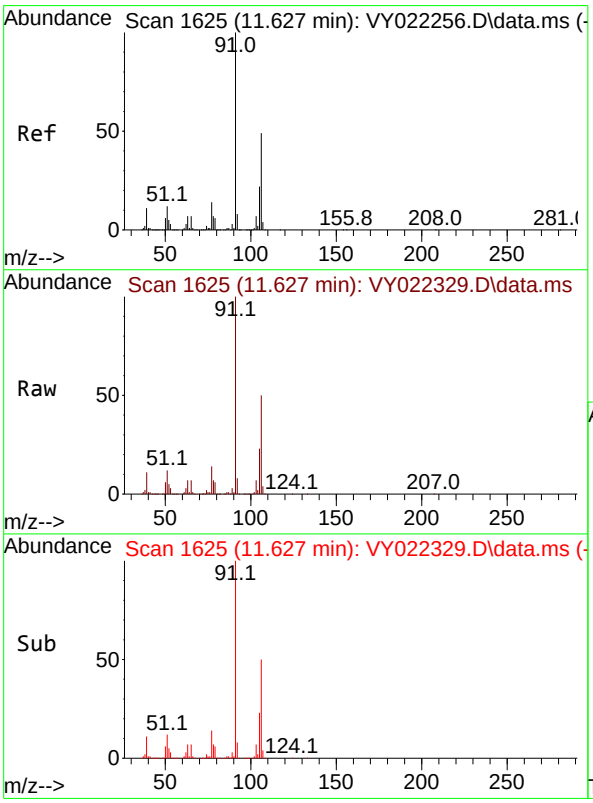
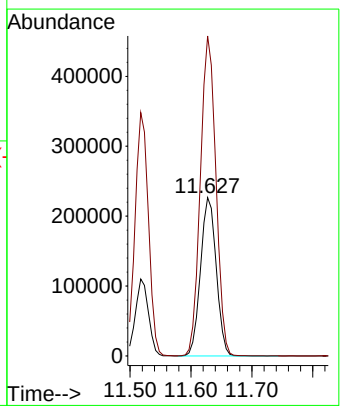
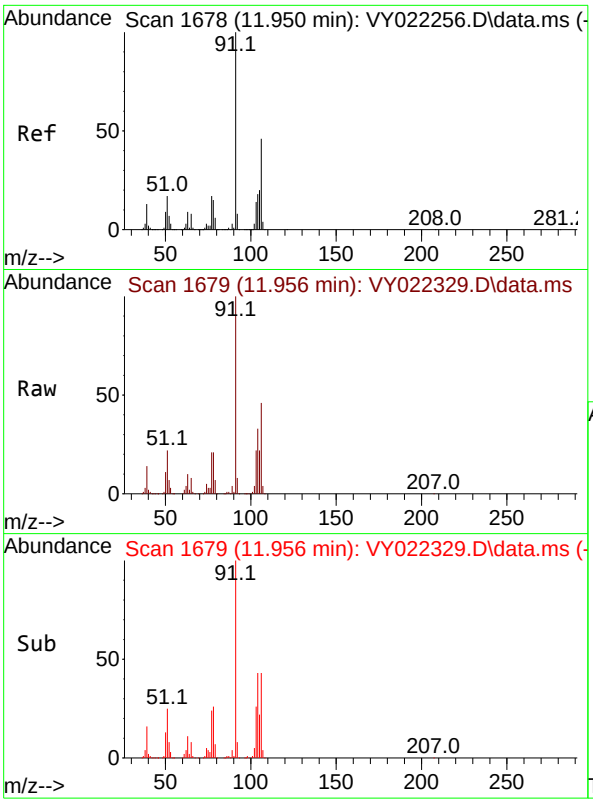



#68
m/p-Xylenes
Concen: 100.899 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:106 Resp: 405451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 200.1 | 163.0 | 244.4 |

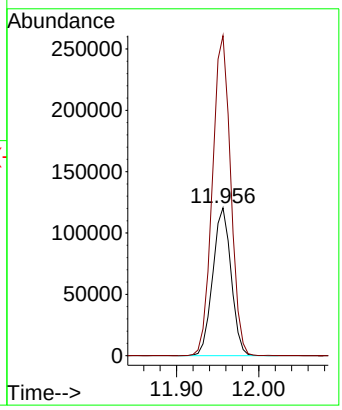





#69
o-Xylene
Concen: 48.989 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:106 Resp: 18625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.9 | 108.3 | 324.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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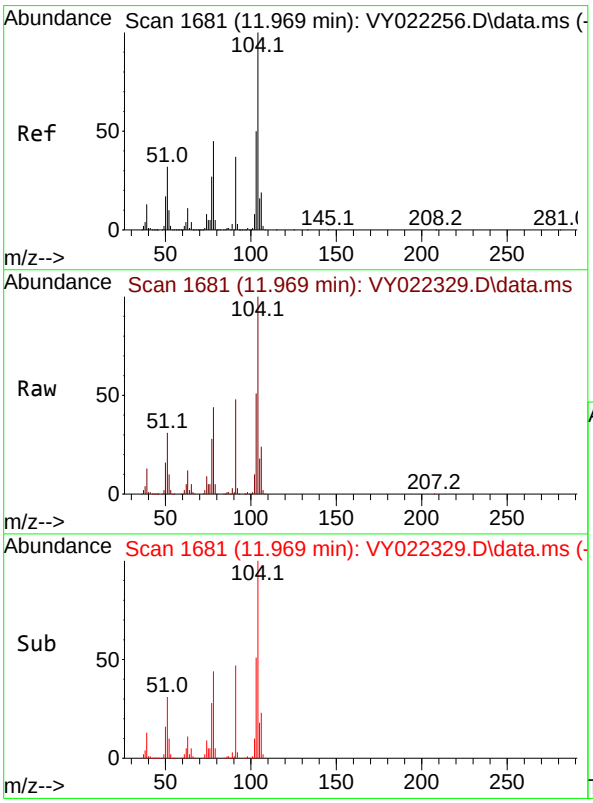
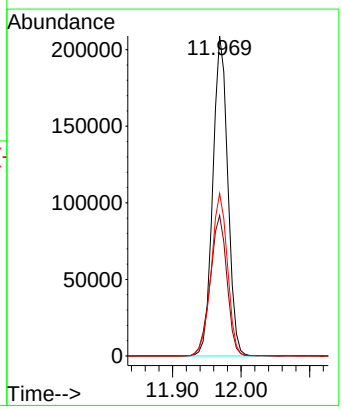
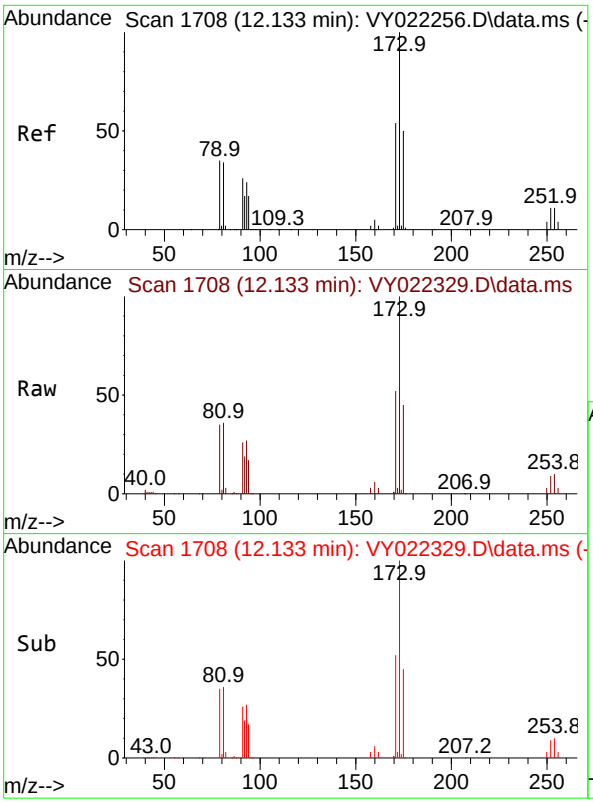



#70
Styrene
Concen: 49.374 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:104 Resp: 316649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.0 | 40.9 | 61.3 |
| 103 | 55.4 | 43.7 | 65.5 |

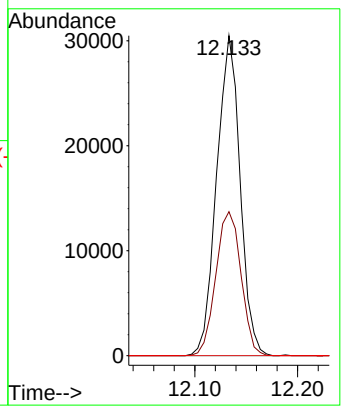





#71
Bromoform
Concen: 45.610 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:173 Resp: 4819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.4 | 24.7 | 74.1 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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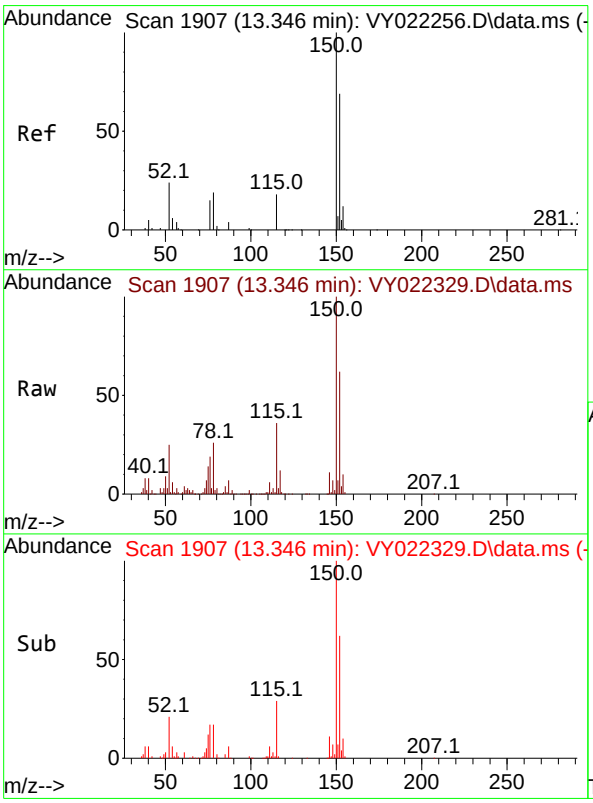
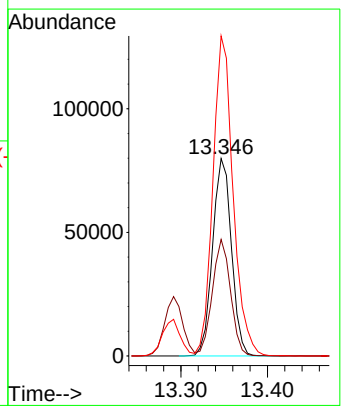
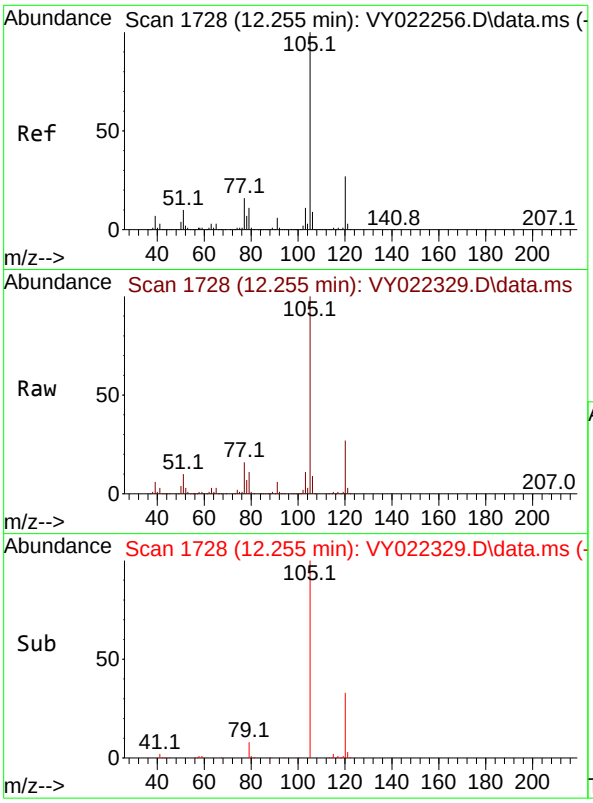



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:152 Resp: 120747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.2 | 29.4 | 88.2 |
| 150 | 173.4 | 0.0 | 353.8 |

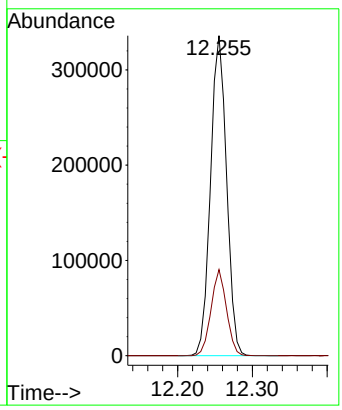





#73
Isopropylbenzene
Concen: 50.055 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:105 Resp: 50071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.8 | 13.2 | 39.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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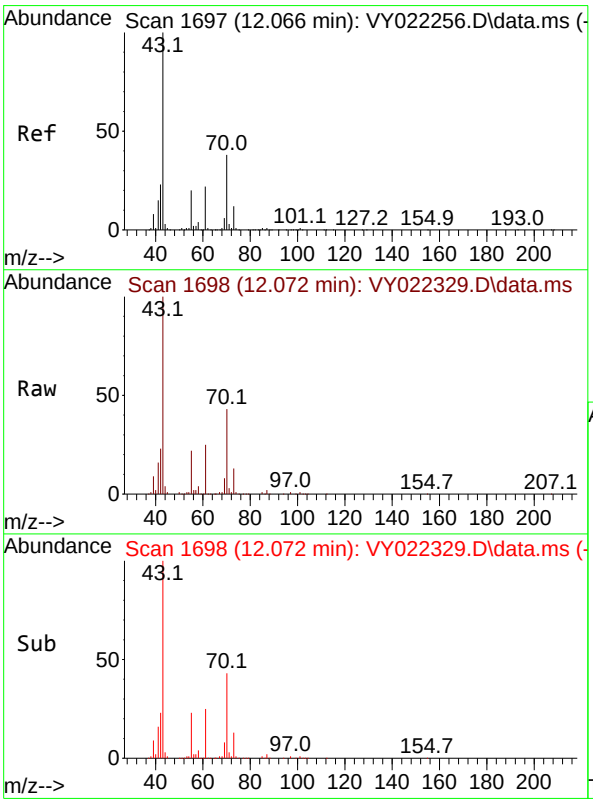
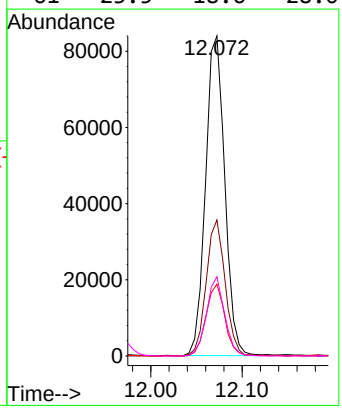
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

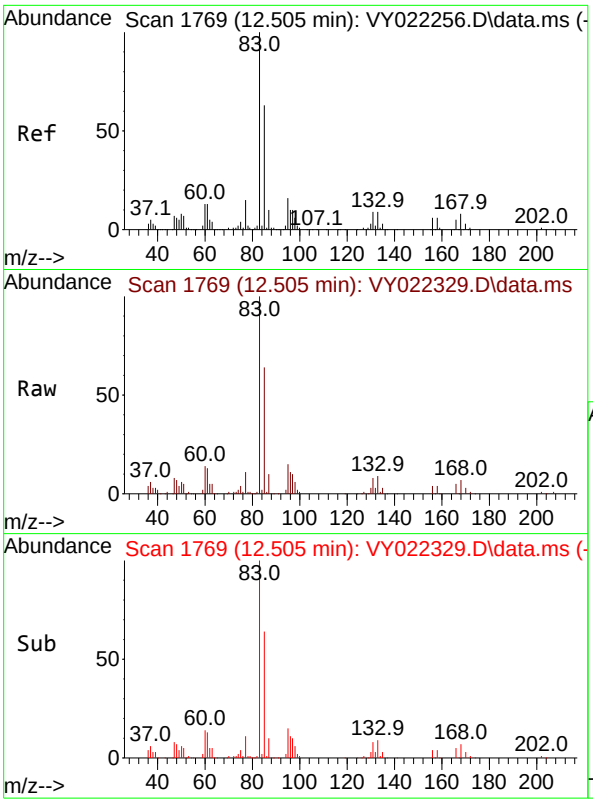



#74
N-amyl acetate
Concen: 42.753 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 43 Resp: 122315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.1 | 31.4 | 47.0 |
| 55 | 22.3 | 17.0 | 25.6 |
| 61 | 23.5 | 18.6 | 28.0 |






#75
1,1,2,2-Tetrachloroethane
Concen: 46.716 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 83 Resp: 7186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.9 | 14.7 |
| 85 | 62.7 | 32.0 | 96.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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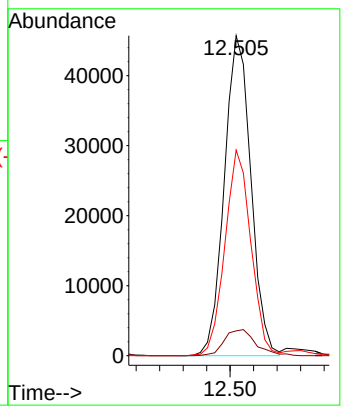
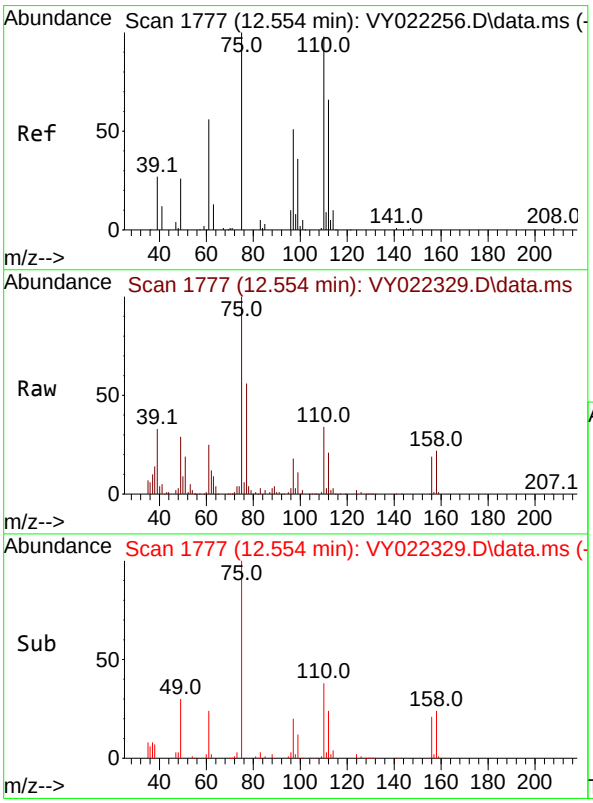
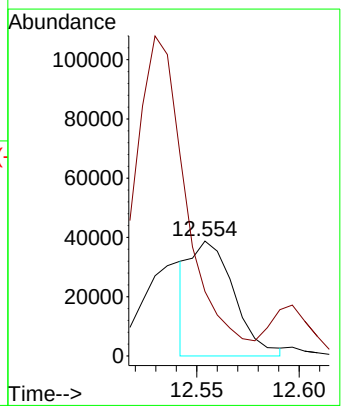


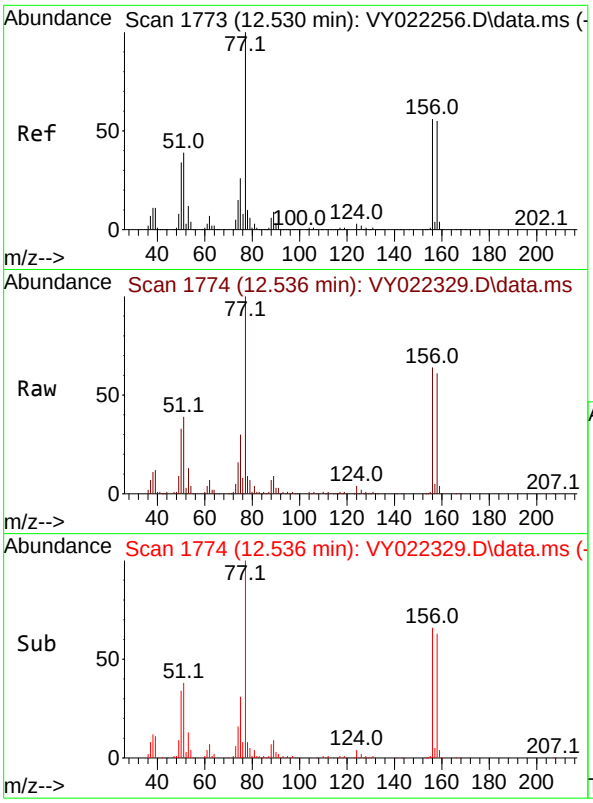




#76
1,2,3-Trichloropropane
Concen: 47.114 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 75 Resp: 57634

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






#77
Bromobenzene
Concen: 47.696 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:156 Resp: 10190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 188.3 | 94.5 | 283.6 |
| 158 | 97.7 | 48.4 | 145.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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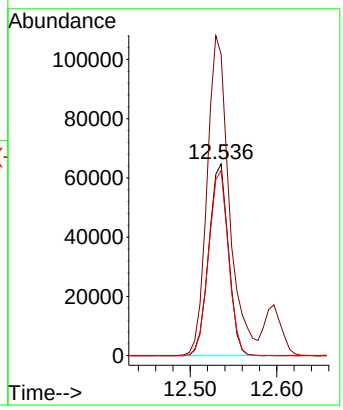
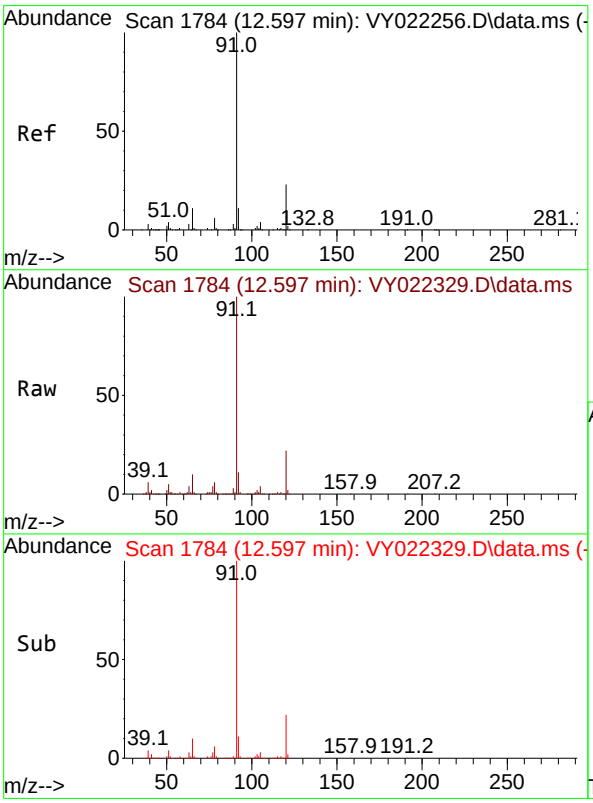
Supervised By :Semsettin Yesilyurt 05/21/2025

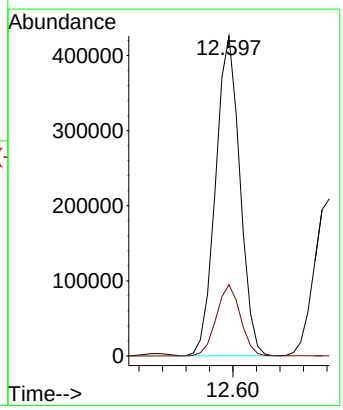


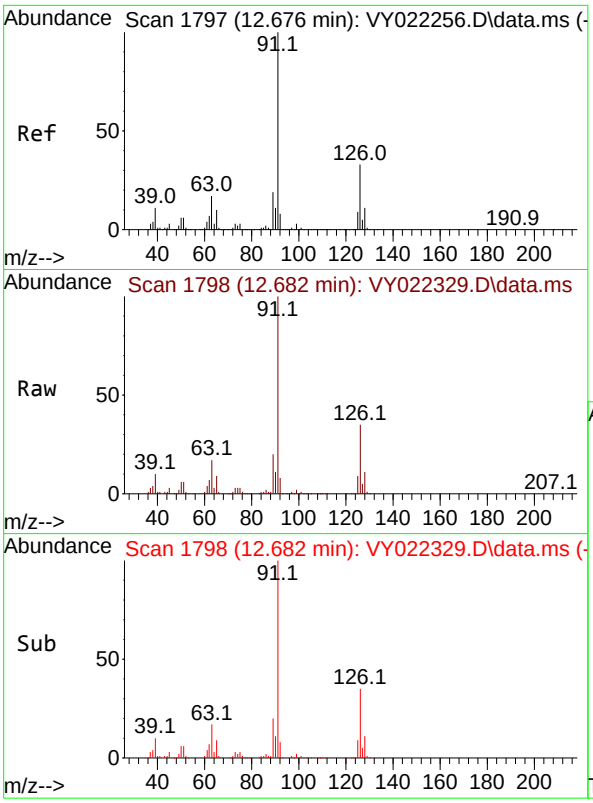




#78
n-propylbenzene
Concen: 50.658 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 91 Resp: 611228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.1 | 11.1 | 33.3 |

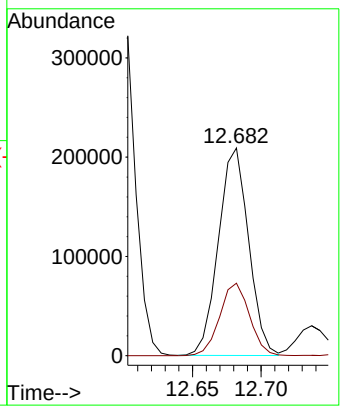





#79
2-Chlorotoluene
Concen: 48.352 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 91 Resp: 32060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.5 | 16.8 | 50.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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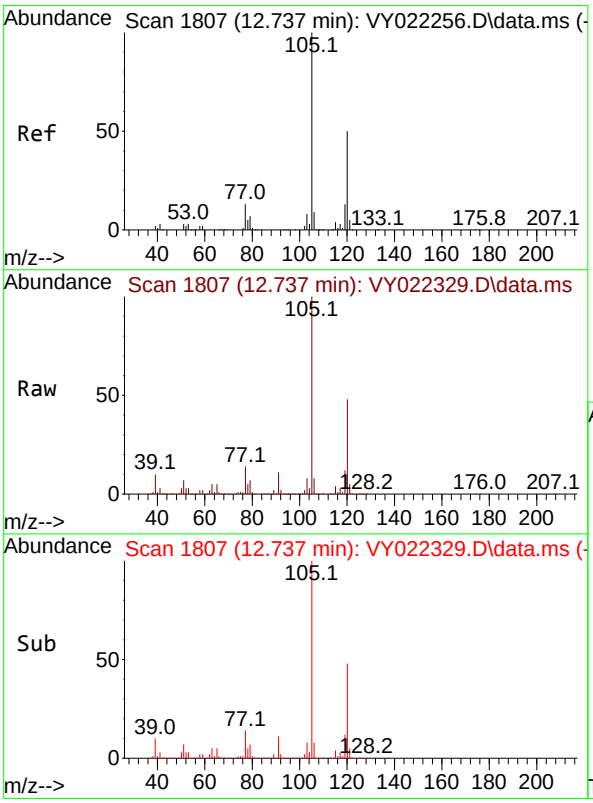
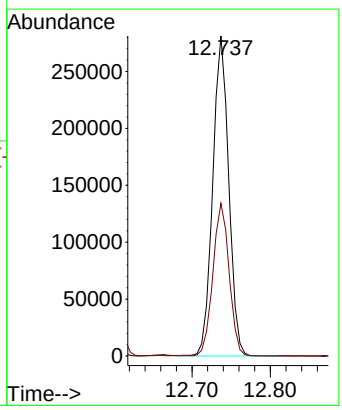
Supervised By :Semsettin Yesilyurt 05/21/2025

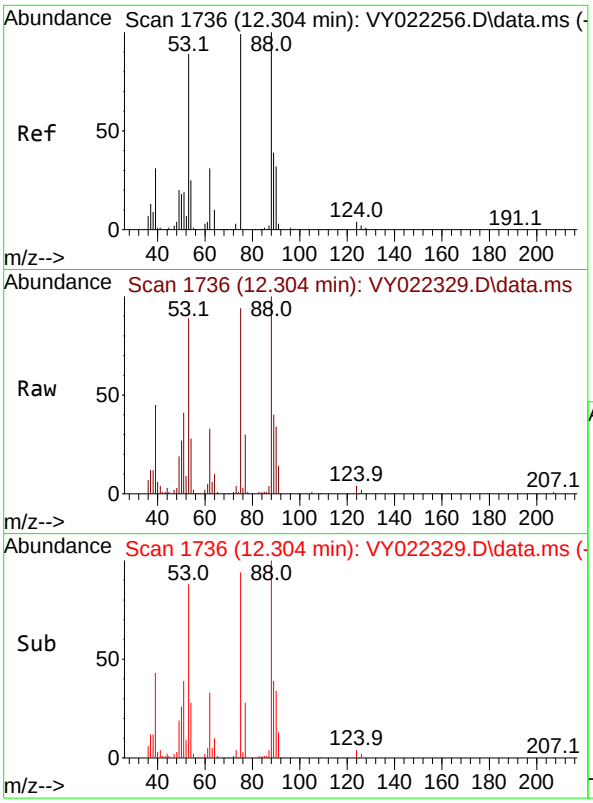



#80
1,3,5-Trimethylbenzene
Concen: 49.303 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:105 Resp: 398122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.5 | 24.2 | 72.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 44.011 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 75 Resp: 2657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 91.4 | 75.8 | 113.8 |
| 89 | 42.3 | 36.2 | 54.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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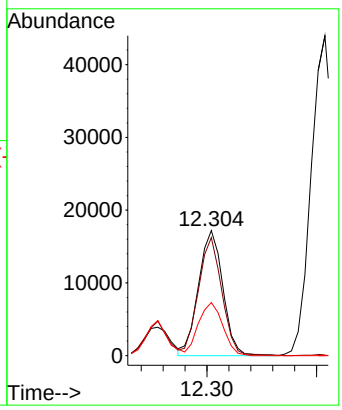
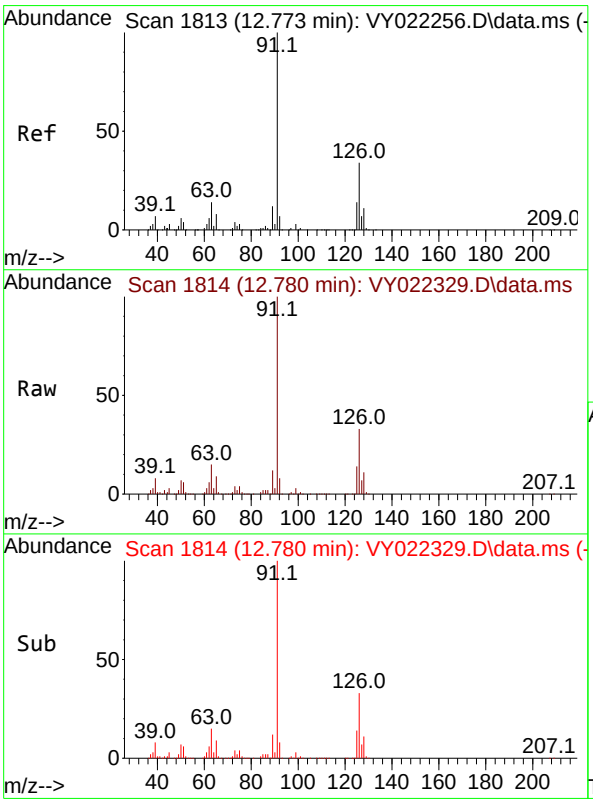
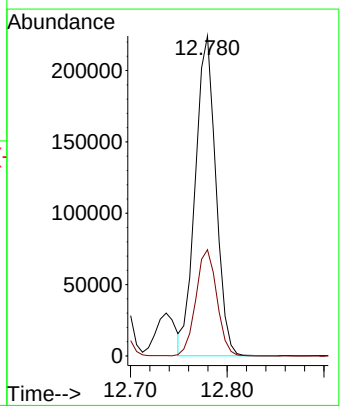


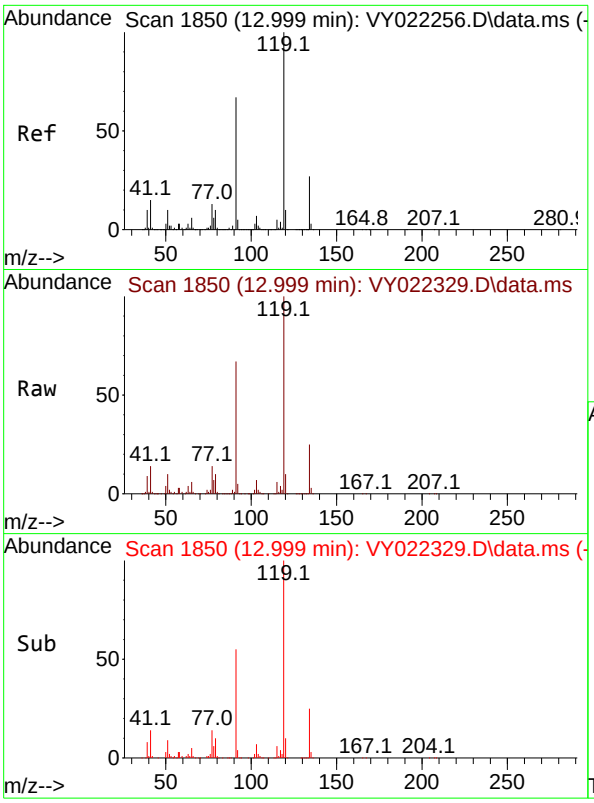




#82
4-Chlorotoluene
Concen: 48.542 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 91 Resp: 331061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.0 | 16.8 | 50.4 |






#83
tert-Butylbenzene
Concen: 49.191 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:119 Resp: 35305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.7 | 32.8 | 98.3 |
| 134 | 26.0 | 12.9 | 38.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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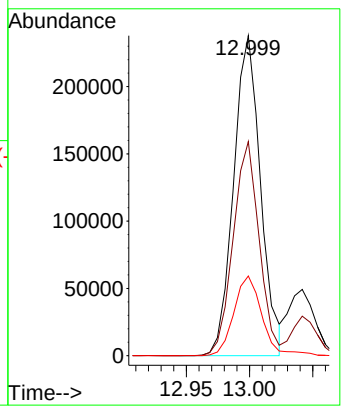
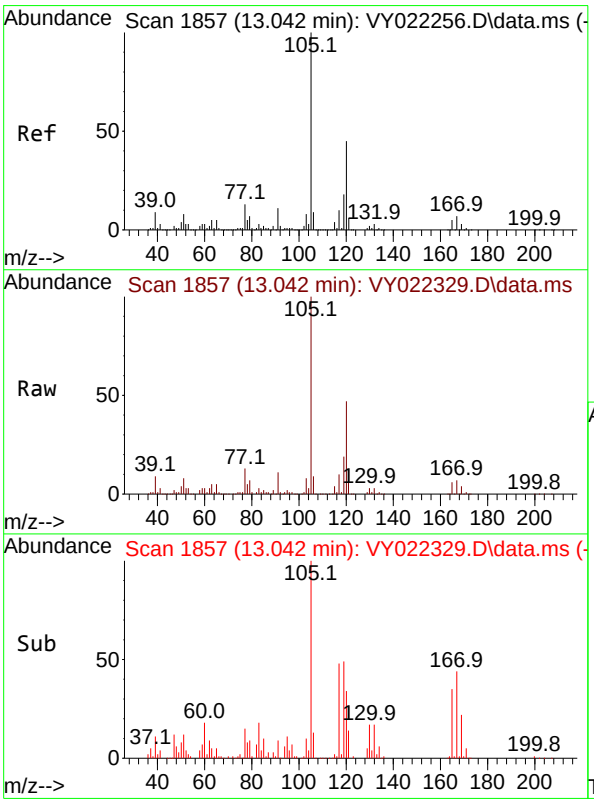
Supervised By :Semsettin Yesilyurt 05/21/2025

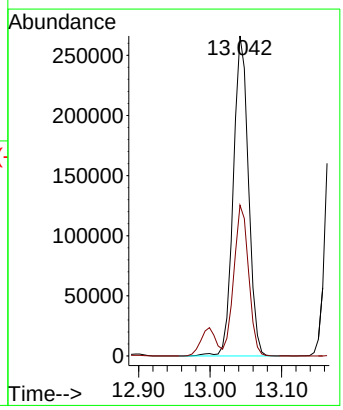


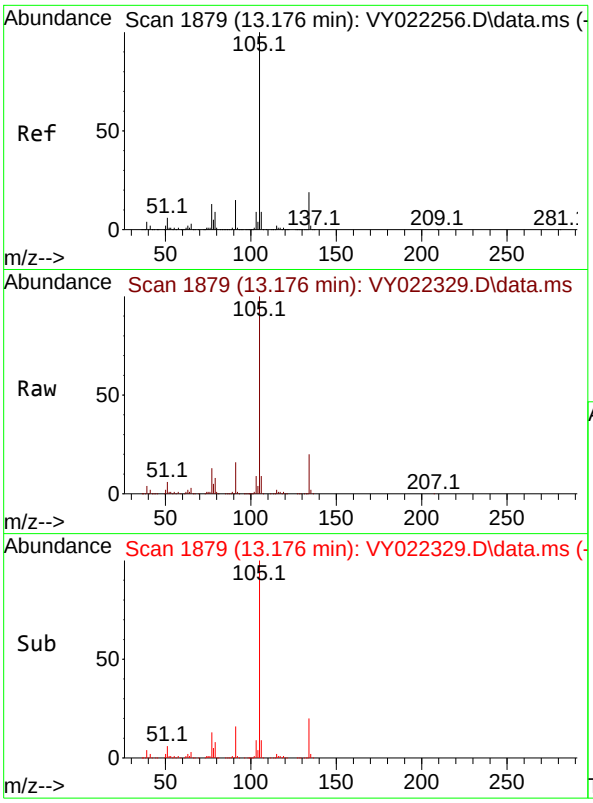




#84
1,2,4-Trimethylbenzene
Concen: 48.690 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:105 Resp: 390297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.9 | 22.3 | 66.9 |

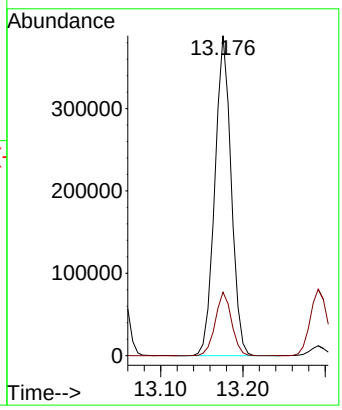





#85
sec-Butylbenzene
Concen: 50.299 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:105 Resp: 53588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.8 | 9.8 | 29.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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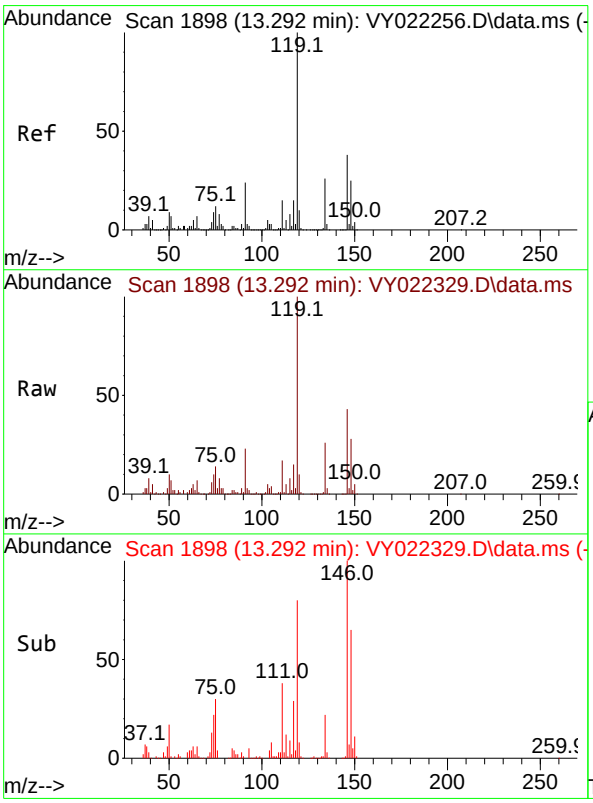
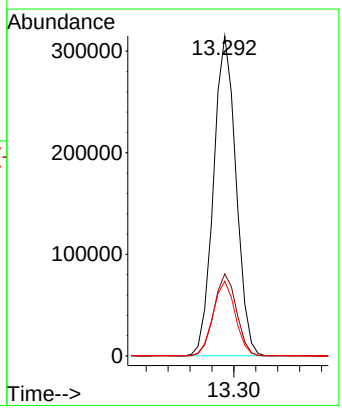
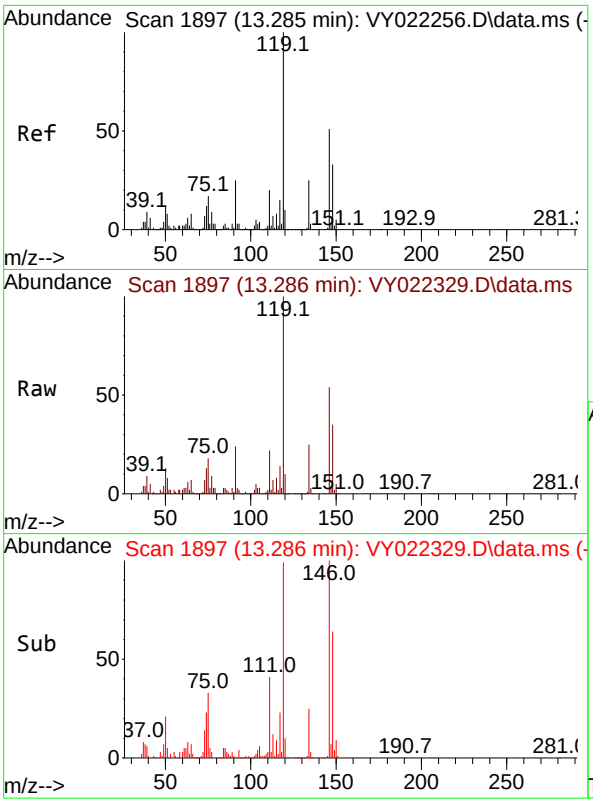



#86
p-Isopropyltoluene
Concen: 50.085 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:119 Resp: 448789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 12.9 | 38.6 |
| 91 | 23.1 | 12.1 | 36.3 |

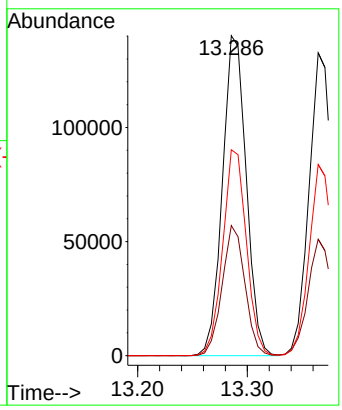





#87
1,3-Dichlorobenzene
Concen: 48.536 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:146 Resp: 21169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.9 | 19.9 | 59.7 |
| 148 | 63.9 | 31.9 | 95.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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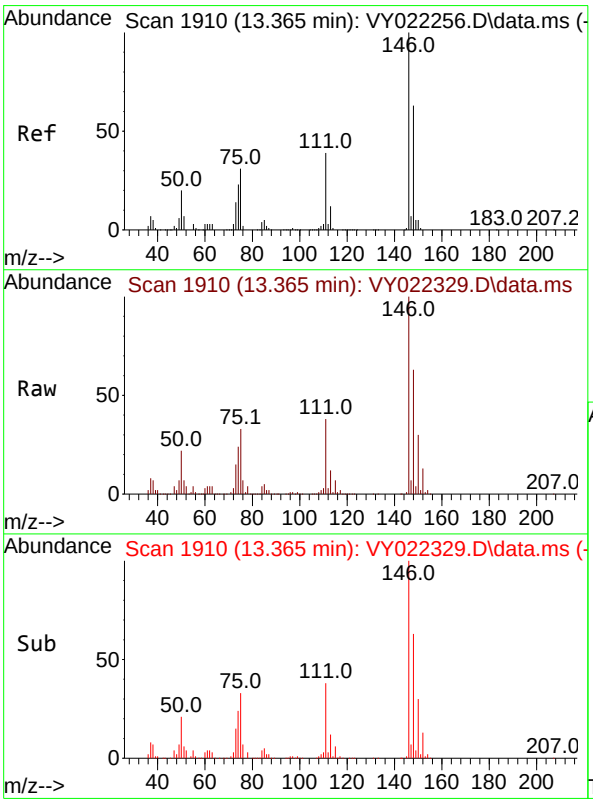
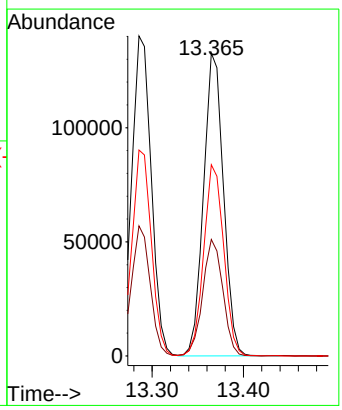
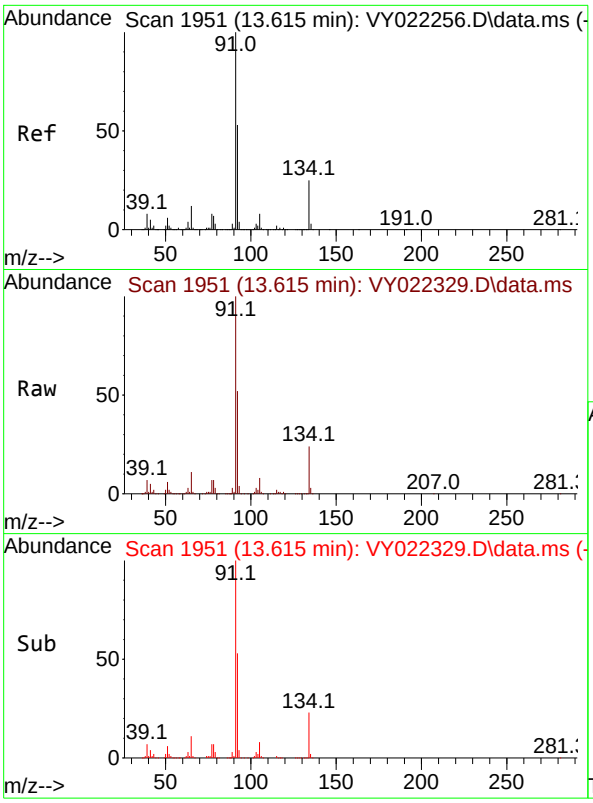



#88
1,4-Dichlorobenzene
Concen: 47.869 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:146 Resp: 200827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.9 | 20.0 | 59.9 |
| 148 | 63.3 | 32.1 | 96.5 |

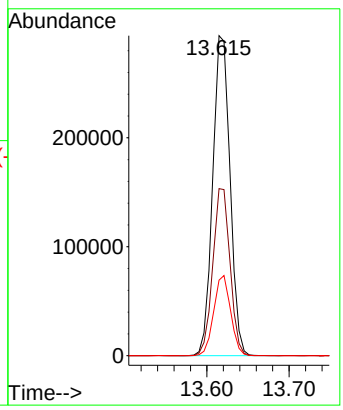





#89
n-Butylbenzene
Concen: 50.735 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 91 Resp: 43008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.9 | 26.3 | 78.9 |
| 134 | 24.5 | 12.4 | 37.4 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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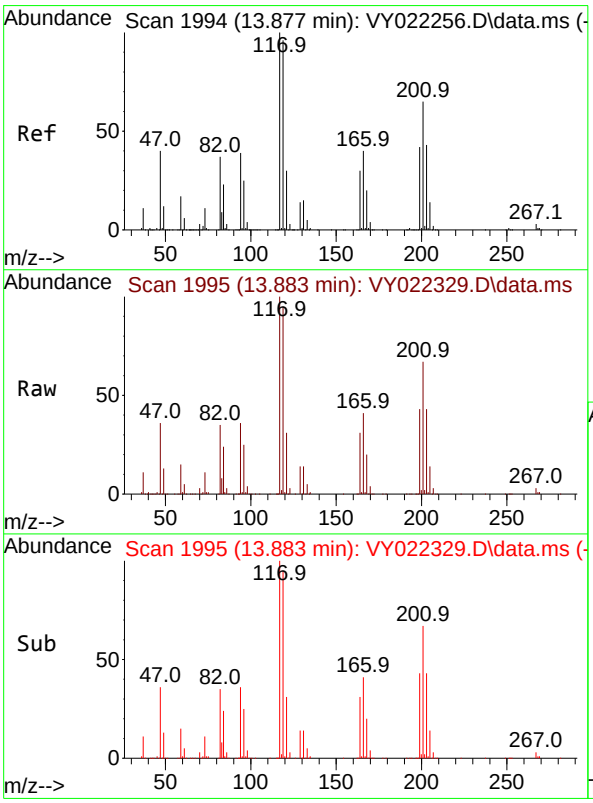
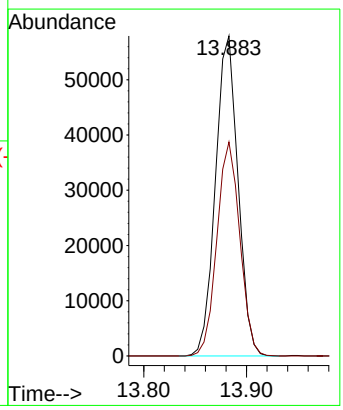
Supervised By :Semsettin Yesilyurt 05/21/2025

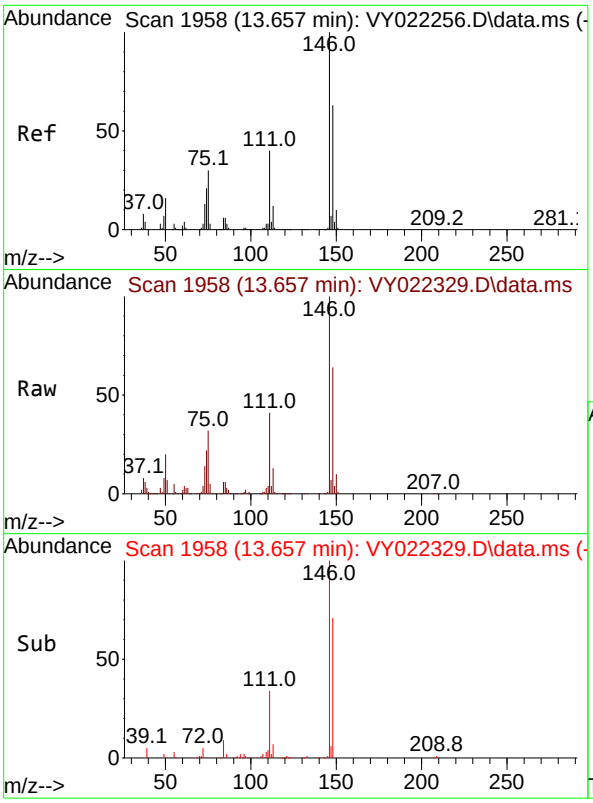



#90
Hexachloroethane
Concen: 48.777 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:117 Resp: 88228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 68.0 | 35.2 | 105.6 |

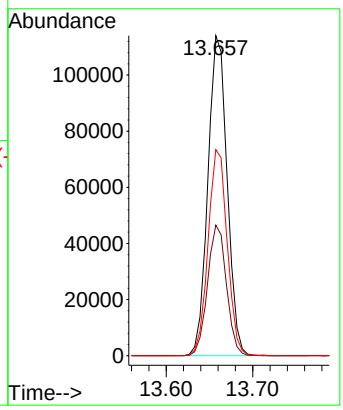





#91
1,2-Dichlorobenzene
Concen: 47.987 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:146 Resp: 17580

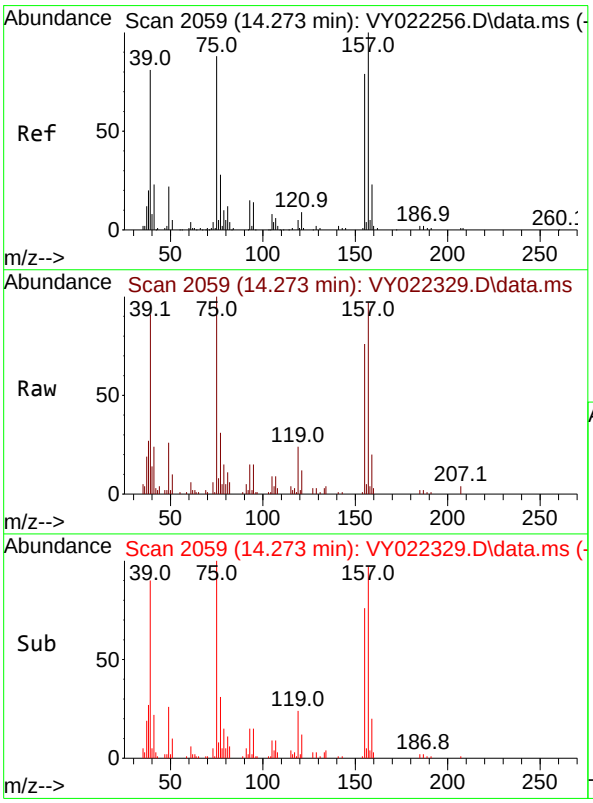
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.1 | 20.5 | 61.5 |
| 148 | 64.1 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

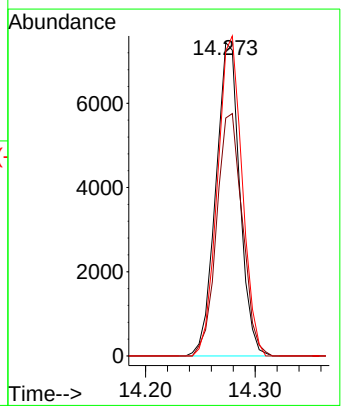
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

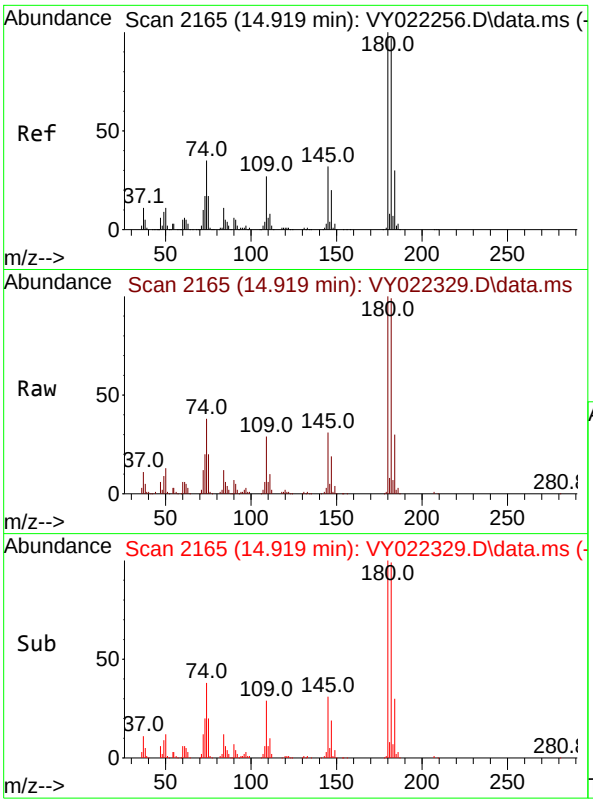



#92
1,2-Dibromo-3-Chloropropane
Concen: 45.506 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion: 75 Resp: 11289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 83.1 | 43.4 | 130.1 |
| 157 | 105.0 | 54.6 | 163.9 |

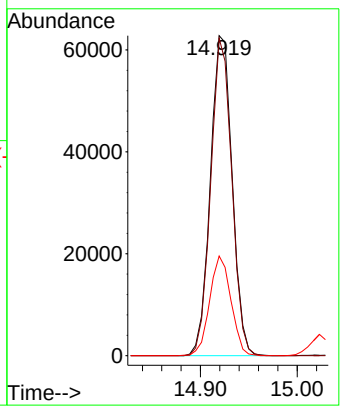





#93
1,2,4-Trichlorobenzene
Concen: 46.496 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:180 Resp: 9839

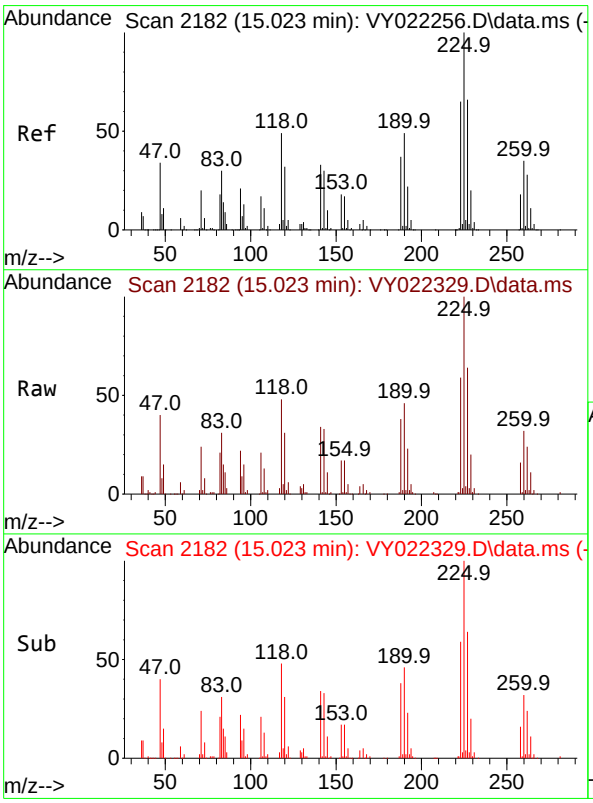
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 48.0 | 144.0 |
| 145 | 30.5 | 15.0 | 45.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

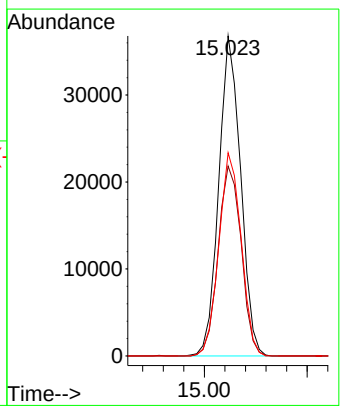
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

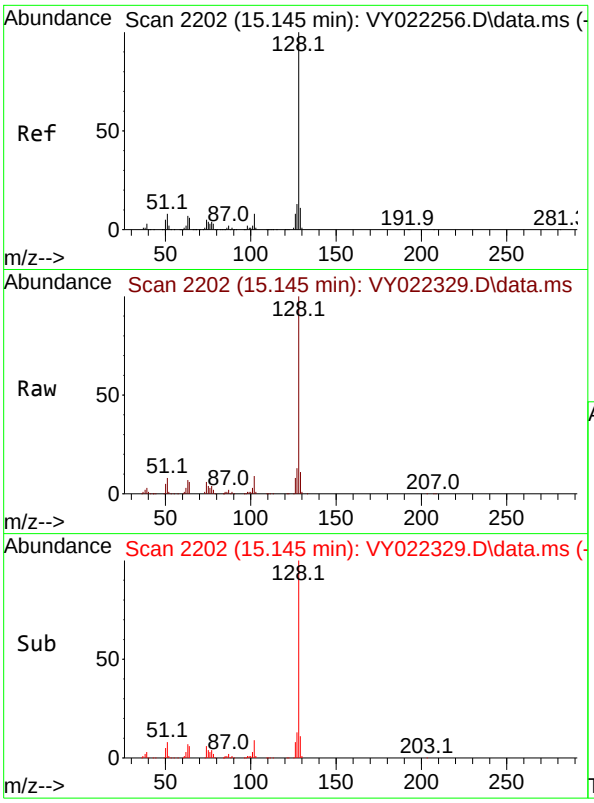



#94
Hexachlorobutadiene
Concen: 45.960 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:225 Resp: 54240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.5 | 31.5 | 94.5 |
| 227 | 64.9 | 32.1 | 96.3 |

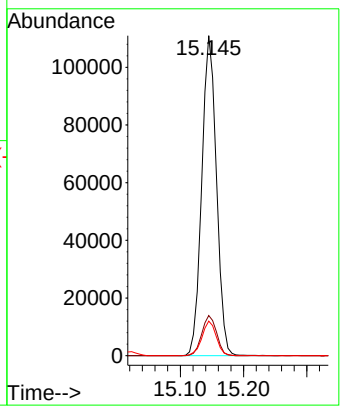





#95
Naphthalene
Concen: 44.695 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:128 Resp: 17948

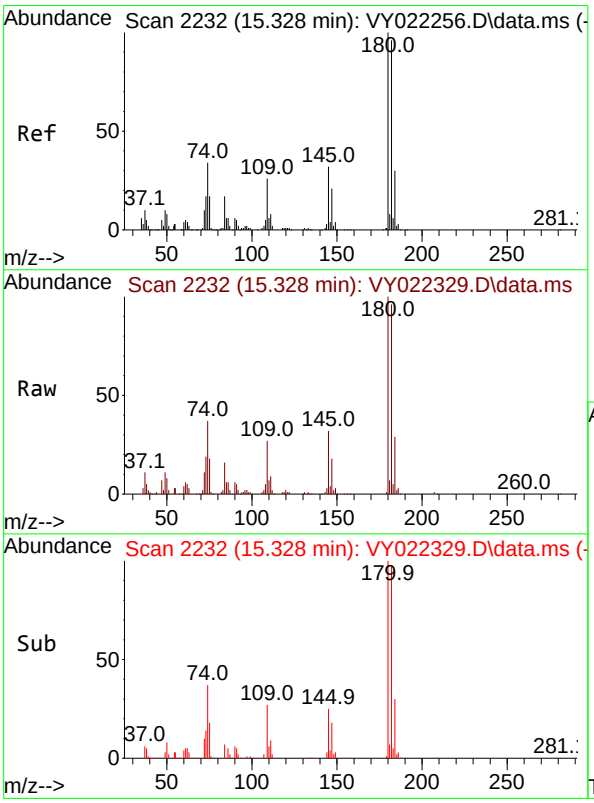
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.6 | 10.2 | 15.2 |
| 129 | 10.6 | 8.8 | 13.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

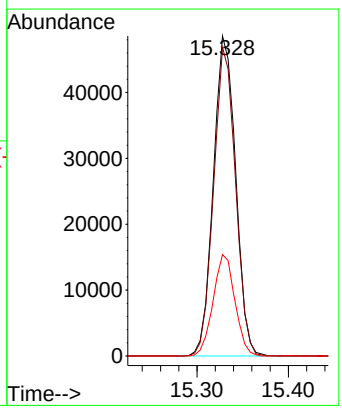
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025




#96
1,2,3-Trichlorobenzene
Concen: 45.719 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022329.D
Acq: 20 May 2025 08:40

Tgt Ion:180 Resp: 82076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.9 | 47.1 | 141.3 |
| 145 | 31.1 | 15.9 | 47.6 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022329.D
Acq On : 20 May 2025 08:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: May 21 01:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 67 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.522 | 0.487 | 6.7 | 65 | 0.00 |
| 3 | P | Chloromethane | 1.097 | 1.094 | 0.3 | 71 | 0.00 |
| 4 | C | Vinyl Chloride | 1.226 | 1.524 | -24.3# | 85 | 0.00 |
| 5 | T | Bromomethane | 0.998 | 1.160 | -16.2 | 89 | 0.00 |
| 6 | T | Chloroethane | 0.763 | 1.012 | -32.6# | 90 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.241 | 1.392 | -12.2 | 77 | 0.00 |
| 8 | T | Diethyl Ether | 0.298 | 0.273 | 8.4 | 63 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.539 | 0.553 | -2.6 | 69 | 0.00 |
| 10 | T | Methyl Iodide | 0.624 | 0.628 | -0.6 | 62 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.042 | 0.036 | 14.3 | 63 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.535 | 0.534 | 0.2# | 67 | 0.00 |
| 13 | T | Acrolein | 0.061 | 0.030 | 50.8# | 36# | 0.00 |
| 14 | T | Allyl chloride | 0.938 | 0.844 | 10.0 | 59 | 0.00 |
| 15 | T | Acrylonitrile | 0.123 | 0.111 | 9.8 | 63 | 0.00 |
| 16 | T | Acetone | 0.102 | 0.091 | 10.8 | 66 | 0.00 |
| 17 | T | Carbon Disulfide | 1.744 | 1.711 | 1.9 | 66 | 0.00 |
| 18 | T | Methyl Acetate | 0.323 | 0.272 | 15.8 | 61 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.475 | 1.383 | 6.2 | 64 | 0.00 |
| 20 | T | Methylene Chloride | 0.662 | 0.582 | 12.1 | 66 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.590 | 0.583 | 1.2 | 66 | 0.00 |
| 22 | T | Diisopropyl ether | 1.980 | 1.819 | 8.1 | 62 | 0.00 |
| 23 | T | Vinyl Acetate | 1.196 | 1.048 | 12.4 | 60 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.106 | 1.085 | 1.9 | 66 | 0.00 |
| 25 | T | 2-Butanone | 0.171 | 0.147 | 14.0 | 61 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.984 | 0.976 | 0.8 | 67 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.681 | 0.683 | -0.3 | 67 | 0.00 |
| 28 | T | Bromochloromethane | 0.472 | 0.470 | 0.4 | 67 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.110 | 0.095 | 13.6 | 60 | 0.00 |
| 30 | C | Chloroform | 1.061 | 1.059 | 0.2# | 66 | 0.00 |
| 31 | T | Cyclohexane | 1.105 | 1.035 | 6.3 | 66 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.974 | 0.966 | 0.8 | 67 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.546 | 0.533 | 2.4 | 66 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 68 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.298 | 0.305 | -2.3 | 69 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.492 | 0.492 | 0.0 | 66 | 0.00 |
| 37 | T | Ethyl Acetate | 0.237 | 0.204 | 13.9 | 59 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.509 | 0.517 | -1.6 | 68 | 0.00 |
| 39 | T | Methylcyclohexane | 0.660 | 0.662 | -0.3 | 67 | 0.00 |
| 40 | TM | Benzene | 1.457 | 1.473 | -1.1 | 67 | 0.00 |
| 41 | T | Methacrylonitrile | 0.157 | 0.142 | 9.6 | 61 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.394 | 0.380 | 3.6 | 64 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.516 | 0.444 | 14.0 | 59 | 0.00 |
| 44 | TM | Trichloroethene | 0.362 | 0.364 | -0.6 | 67 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.351 | 0.346 | 1.4# | 66 | 0.00 |
| 46 | T | Dibromomethane | 0.189 | 0.183 | 3.2 | 66 | 0.00 |
| 47 | T | Bromodichloromethane | 0.492 | 0.489 | 0.6 | 66 | 0.00 |
| 48 | T | Methyl methacrylate | 0.241 | 0.207 | 14.1 | 59 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022329.D
Acq On : 20 May 2025 08:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: May 21 01:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 0.002 | 0.002 | 0.0 | 67 | 0.00 |
| 50 | S | Toluene-d8 | 1.222 | 1.259 | -3.0 | 69 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.253 | 0.220 | 13.0 | 59 | 0.00 |
| 52 | CM | Toluene | 0.923 | 0.912 | 1.2# | 66 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.480 | 0.458 | 4.6 | 64 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.550 | 0.528 | 4.0 | 64 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.243 | 0.233 | 4.1 | 65 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.378 | 0.347 | 8.2 | 62 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.431 | 0.417 | 3.2 | 65 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.170 | 0.153 | 10.0 | 57 | 0.00 |
| 59 | T | 2-Hexanone | 0.170 | 0.145 | 14.7 | 59 | 0.00 |
| 60 | T | Dibromochloromethane | 0.315 | 0.304 | 3.5 | 64 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.226 | 0.216 | 4.4 | 64 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.387 | 0.375 | 3.1 | 66 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 67 | 0.00 |
| 64 | T | Tetrachloroethene | 0.462 | 0.471 | -1.9 | 66 | 0.00 |
| 65 | PM | Chlorobenzene | 1.128 | 1.122 | 0.5 | 65 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.388 | 0.383 | 1.3 | 65 | 0.00 |
| 67 | C | Ethyl Benzene | 2.113 | 2.120 | -0.3# | 65 | 0.00 |
| 68 | T | m/p-Xylenes | 0.796 | 0.803 | -0.9 | 66 | 0.00 |
| 69 | T | o-Xylene | 0.753 | 0.738 | 2.0 | 64 | 0.00 |
| 70 | T | Styrene | 1.270 | 1.255 | 1.2 | 64 | 0.00 |
| 71 | P | Bromoform | 0.209 | 0.191 | 8.6 | 61 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 67 | 0.00 |
| 73 | T | Isopropylbenzene | 4.142 | 4.147 | -0.1 | 66 | 0.00 |
| 74 | T | N-amyl acetate | 1.185 | 1.013 | 14.5 | 58 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.637 | 0.595 | 6.6 | 63 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.507 | 0.477 | 5.9 | 64 | 0.00 |
| 77 | T | Bromobenzene | 0.885 | 0.844 | 4.6 | 63 | 0.00 |
| 78 | T | n-propylbenzene | 4.996 | 5.062 | -1.3 | 66 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.746 | 2.655 | 3.3 | 63 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.344 | 3.297 | 1.4 | 65 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.250 | 0.220 | 12.0 | 62 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.824 | 2.742 | 2.9 | 63 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.972 | 2.924 | 1.6 | 65 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.319 | 3.232 | 2.6 | 63 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.412 | 4.438 | -0.6 | 65 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.710 | 3.717 | -0.2 | 65 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.806 | 1.753 | 2.9 | 64 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.737 | 1.663 | 4.3 | 64 | 0.00 |
| 89 | T | n-Butylbenzene | 3.510 | 3.562 | -1.5 | 65 | 0.00 |
| 90 | T | Hexachloroethane | 0.749 | 0.731 | 2.4 | 64 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.517 | 1.456 | 4.0 | 64 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.103 | 0.093 | 9.7 | 63 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.876 | 0.815 | 7.0 | 61 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.489 | 0.449 | 8.2 | 60 | 0.00 |
| 95 | T | Naphthalene | 1.663 | 1.486 | 10.6 | 60 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022329.D
Acq On : 20 May 2025 08:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: May 21 01:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 0.743 | 0.680 | 8.5 | 60 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022329.D
Acq On : 20 May 2025 08:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: May 21 01:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 67 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 46.679 | 6.6 | 65 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 49.842 | 0.3 | 71 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 62.153 | -24.3# | 85 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 58.088 | -16.2 | 89 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 66.345 | -32.7# | 90 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 56.065 | -12.1 | 77 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 45.847 | 8.3 | 63 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 51.283 | -2.6 | 69 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 50.311 | -0.6 | 62 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 215.761 | 13.7 | 63 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 49.916 | 0.2# | 67 | 0.00 |
| 13 | T | Acrolein | 250.000 | 122.519 | 51.0# | 36 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 45.013 | 10.0 | 59 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 226.925 | 9.2 | 63 | 0.00 |
| 16 | T | Acetone | 250.000 | 223.009 | 10.8 | 66 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 49.060 | 1.9 | 66 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 42.141 | 15.7 | 61 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 46.893 | 6.2 | 64 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 43.941 | 12.1 | 66 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 49.353 | 1.3 | 66 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 45.916 | 8.2 | 62 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 219.054 | 12.4 | 60 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 49.046 | 1.9 | 66 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 214.116 | 14.4 | 61 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 49.606 | 0.8 | 67 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 50.159 | -0.3 | 67 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 49.834 | 0.3 | 67 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 215.541 | 13.8 | 60 | 0.00 |
| 30 | C | Chloroform | 50.000 | 49.916 | 0.2# | 66 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 46.827 | 6.3 | 66 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 49.587 | 0.8 | 67 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 48.805 | 2.4 | 66 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 68 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 51.076 | -2.2 | 69 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 50.028 | -0.1 | 66 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 43.038 | 13.9 | 59 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 50.762 | -1.5 | 68 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 50.127 | -0.3 | 67 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.555 | -1.1 | 67 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 45.192 | 9.6 | 61 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 48.255 | 3.5 | 64 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 43.001 | 14.0 | 59 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.212 | -0.4 | 67 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 49.181 | 1.6# | 66 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 48.227 | 3.5 | 66 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 49.724 | 0.6 | 66 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 42.873 | 14.3 | 59 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022329.D
Acq On : 20 May 2025 08:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: May 21 01:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 945.674 | 5.4 | 67 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 51.484 | -3.0 | 69 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 217.386 | 13.0 | 59 | 0.00 |
| 52 | CM | Toluene | 50.000 | 49.403 | 1.2# | 66 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 47.744 | 4.5 | 64 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 48.006 | 4.0 | 64 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 48.082 | 3.8 | 65 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 45.862 | 8.3 | 62 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 48.388 | 3.2 | 65 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 226.074 | 9.6 | 57 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 214.015 | 14.4 | 59 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 48.185 | 3.6 | 64 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 47.659 | 4.7 | 64 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 48.365 | 3.3 | 66 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 67 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 50.915 | -1.8 | 66 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.729 | 0.5 | 65 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 49.374 | 1.3 | 65 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 50.166 | -0.3# | 65 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 100.899 | -0.9 | 66 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 48.989 | 2.0 | 64 | 0.00 |
| 70 | T | Styrene | 50.000 | 49.374 | 1.3 | 64 | 0.00 |
| 71 | P | Bromoform | 50.000 | 45.610 | 8.8 | 61 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 67 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 50.055 | -0.1 | 66 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 42.753 | 14.5 | 58 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 46.716 | 6.6 | 63 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 47.114 | 5.8 | 64 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 47.696 | 4.6 | 63 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 50.658 | -1.3 | 66 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 48.352 | 3.3 | 63 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 49.303 | 1.4 | 65 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 44.011 | 12.0 | 62 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 48.542 | 2.9 | 63 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 49.191 | 1.6 | 65 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 48.690 | 2.6 | 63 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 50.299 | -0.6 | 65 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.085 | -0.2 | 65 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 48.536 | 2.9 | 64 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 47.869 | 4.3 | 64 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 50.735 | -1.5 | 65 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 48.777 | 2.4 | 64 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 47.987 | 4.0 | 64 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.506 | 9.0 | 63 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 46.496 | 7.0 | 61 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 45.960 | 8.1 | 60 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 44.695 | 10.6 | 60 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022329.D
Acq On : 20 May 2025 08:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: May 21 01:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 45.719 | 8.6 | 60 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2075 SAS No.: Q2075 SDG No.: Q2075

Instrument ID: MSVOA_Y Calibration Date/Time: 05/22/2025 08:35

Lab File ID: VY022380.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Benzene | 1.457 | 1.548 | | 6.25 | 20 |
| Toluene | 0.923 | 0.978 | | 5.96 | 20 |
| Ethyl Benzene | 2.113 | 2.234 | | 5.73 | 20 |
| m/p-Xylenes | 0.796 | 0.849 | | 6.66 | 20 |
| o-Xylene | 0.753 | 0.791 | | 5.05 | 20 |
| Isopropylbenzene | 4.142 | 4.432 | | 7 | 20 |
| n-propylbenzene | 4.996 | 5.385 | | 7.79 | 20 |
| 1,3,5-Trimethylbenzene | 3.344 | 3.533 | | 5.65 | 20 |
| tert-Butylbenzene | 2.972 | 3.200 | | 7.67 | 20 |
| 1,2,4-Trimethylbenzene | 3.319 | 3.526 | | 6.24 | 20 |
| sec-Butylbenzene | 4.412 | 4.835 | | 9.59 | 20 |
| p-Isopropyltoluene | 3.710 | 4.077 | | 9.89 | 20 |
| n-Butylbenzene | 3.510 | 3.887 | | 10.74 | 20 |
| 1,2-Dichloroethane-d4 | 0.546 | 0.561 | | 2.75 | 20 |
| Dibromofluoromethane | 0.298 | 0.318 | | 6.71 | 20 |
| Toluene-d8 | 1.222 | 1.298 | | 6.22 | 20 |
| 4-Bromofluorobenzene | 0.387 | 0.387 | | 0 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022380.D
Acq On : 22 May 2025 08:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 03:30:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.720 | 168 | 161495 | 50.000 | ug/l | 0.01 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 274168 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 235238 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 110586 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 90668 | 51.370 | ug/l | 0.01 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 102.740% | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 87280 | 53.337 | ug/l | 0.01 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 106.680% | | | |
| 50) Toluene-d8 | 10.115 | 98 | 355941 | 53.110 | ug/l | 0.01 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 106.220% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 105997 | 49.898 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 99.800% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 82650 | 49.047 | ug/l | 99 |
| 3) Chloromethane | 2.074 | 50 | 176433 | 49.773 | ug/l | 96 |
| 4) Vinyl Chloride | 2.208 | 62 | 234408 | 59.188 | ug/l | 97 |
| 5) Bromomethane | 2.605 | 94 | 194171 | 60.227 | ug/l | 96 |
| 6) Chloroethane | 2.745 | 64 | 160268 | 65.048 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 216108 | 53.896 | ug/l | 95 |
| 8) Diethyl Ether | 3.470 | 74 | 48567 | 50.471 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 96945 | 55.692 | ug/l | 98 |
| 10) Methyl Iodide | 4.019 | 142 | 112522 | 55.849 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.885 | 59 | 30628 | 227.243 | ug/l # | 100 |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 93099 | 53.894 | ug/l | 96 |
| 13) Acrolein | 3.665 | 56 | 21575 | 109.497 | ug/l | 98 |
| 14) Allyl chloride | 4.397 | 41 | 143029 | 47.221 | ug/l | 94 |
| 15) Acrylonitrile | 5.074 | 53 | 96693 | 243.864 | ug/l | 100 |
| 16) Acetone | 3.879 | 43 | 77883 | 235.333 | ug/l | 99 |
| 17) Carbon Disulfide | 4.117 | 76 | 291563 | 51.759 | ug/l | 98 |
| 18) Methyl Acetate | 4.403 | 43 | 49022 | 46.981 | ug/l | 94 |
| 19) Methyl tert-butyl Ether | 5.135 | 73 | 245795 | 51.604 | ug/l | 96 |
| 20) Methylene Chloride | 4.629 | 84 | 99182 | 46.380 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.135 | 96 | 101691 | 53.333 | ug/l | 91 |
| 22) Diisopropyl ether | 6.031 | 45 | 310912 | 48.607 | ug/l | 97 |
| 23) Vinyl Acetate | 5.976 | 43 | 899140 | 232.677 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 186582 | 52.212 | ug/l | 98 |
| 25) 2-Butanone | 6.909 | 43 | 124712 | 225.284 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 172279 | 54.202 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.903 | 96 | 119734 | 54.417 | ug/l | 97 |
| 28) Bromochloromethane | 7.256 | 49 | 79145 | 51.923 | ug/l | 94 |
| 29) Tetrahydrofuran | 7.274 | 42 | 80994 | 227.418 | ug/l | 94 |
| 30) Chloroform | 7.433 | 83 | 186842 | 54.509 | ug/l | 99 |
| 31) Cyclohexane | 7.713 | 56 | 173130 | 48.489 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 170179 | 54.115 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.848 | 75 | 141766 | 52.597 | ug/l | 98 |
| 37) Ethyl Acetate | 6.994 | 43 | 57919 | 44.661 | ug/l | 96 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 150177 | 53.827 | ug/l | 98 |
| 39) Methylcyclohexane | 9.122 | 83 | 190360 | 52.569 | ug/l | 94 |
| 40) Benzene | 8.091 | 78 | 424335 | 53.106 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022380.D
Acq On : 22 May 2025 08:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 03:30:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.256 | 41 | 39078m | 45.426 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.171 | 62 | 108617 | 50.267 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.207 | 43 | 128391 | 45.395 | ug/l | # | 85 |
| 44) Trichloroethene | 8.878 | 130 | 105676 | 53.190 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 99132 | 51.460 | ug/l | | 95 |
| 46) Dibromomethane | 9.238 | 93 | 53943 | 51.917 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.433 | 83 | 140915 | 52.278 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.231 | 41 | 58854 | 44.496 | ug/l | | 93 |
| 49) 1,4-Dioxane | 9.238 | 88 | 11678 | 994.901 | ug/l | | 88 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 315171 | 227.107 | ug/l | | 96 |
| 52) Toluene | 10.176 | 92 | 268178 | 53.002 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 131043 | 49.816 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 154811 | 51.367 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 67471 | 50.711 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.445 | 69 | 101892 | 49.163 | ug/l | | 95 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 121474 | 51.386 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 247160 | 265.693 | ug/l | | 97 |
| 59) 2-Hexanone | 10.768 | 43 | 206922 | 222.384 | ug/l | | 95 |
| 60) Dibromochloromethane | 10.920 | 129 | 90531 | 52.423 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 64690 | 52.166 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.652 | 164 | 118077 | 54.305 | ug/l | | 97 |
| 65) Chlorobenzene | 11.451 | 112 | 280913 | 52.931 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 94462 | 51.774 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.524 | 91 | 525554 | 52.876 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 399310 | 106.617 | ug/l | | 96 |
| 69) o-Xylene | 11.963 | 106 | 186099 | 52.518 | ug/l | | 96 |
| 70) Styrene | 11.975 | 104 | 311800 | 52.163 | ug/l | | 98 |
| 71) Bromoform | 12.139 | 173 | 49753 | 50.521 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.261 | 105 | 490162 | 53.502 | ug/l | | 100 |
| 74) N-amyl acetate | 12.078 | 43 | 119696 | 45.682 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 72647 | 51.561 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 55147m | 49.223 | ug/l | | |
| 77) Bromobenzene | 12.542 | 156 | 102872 | 52.574 | ug/l | | 97 |
| 78) n-propylbenzene | 12.603 | 91 | 595455 | 53.885 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 318579 | 52.461 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 390755 | 52.837 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 25898 | 46.827 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 325243 | 52.070 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 353926 | 53.844 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 389894 | 53.109 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.182 | 105 | 534707 | 54.800 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 450850 | 54.938 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 212275 | 53.142 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 202502 | 52.704 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.621 | 91 | 429840 | 55.365 | ug/l | | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 87959 | 53.097 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 176961 | 52.741 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 11556 | 50.863 | ug/l | | 93 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 103673 | 53.492 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 57263 | 52.980 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 187535 | 50.990 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 86200 | 52.428 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022380.D
Acq On : 22 May 2025 08:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 03:30:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

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

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

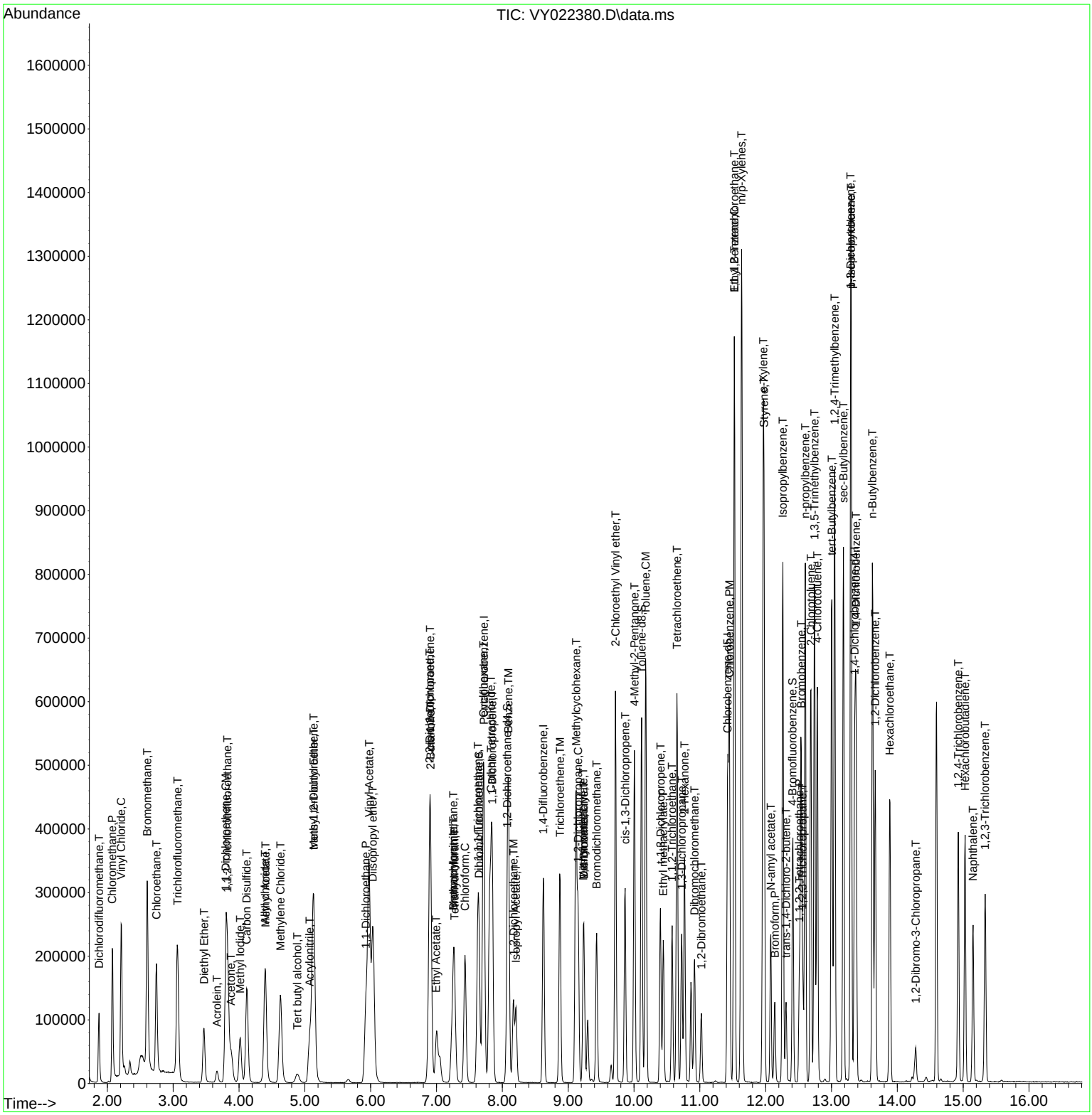
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022380.D
Acq On : 22 May 2025 08:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

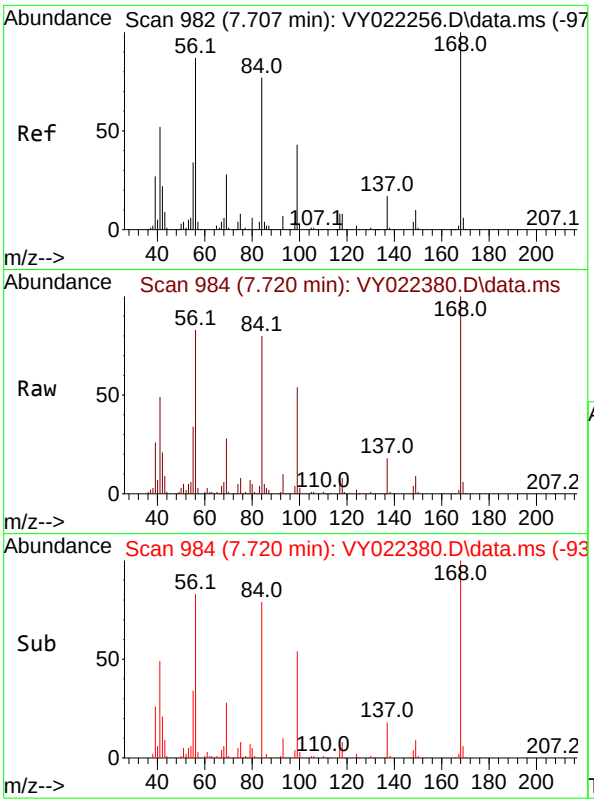
Quant Time: May 23 03:30:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

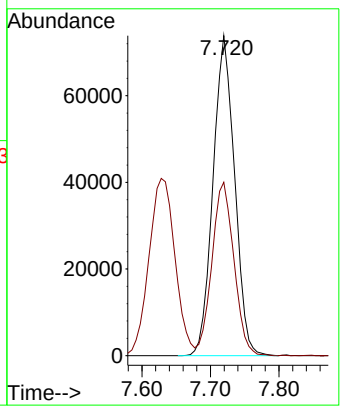





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 9
Delta R.T. 0.013 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:168 Resp: 16149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.2 | 44.2 | 66.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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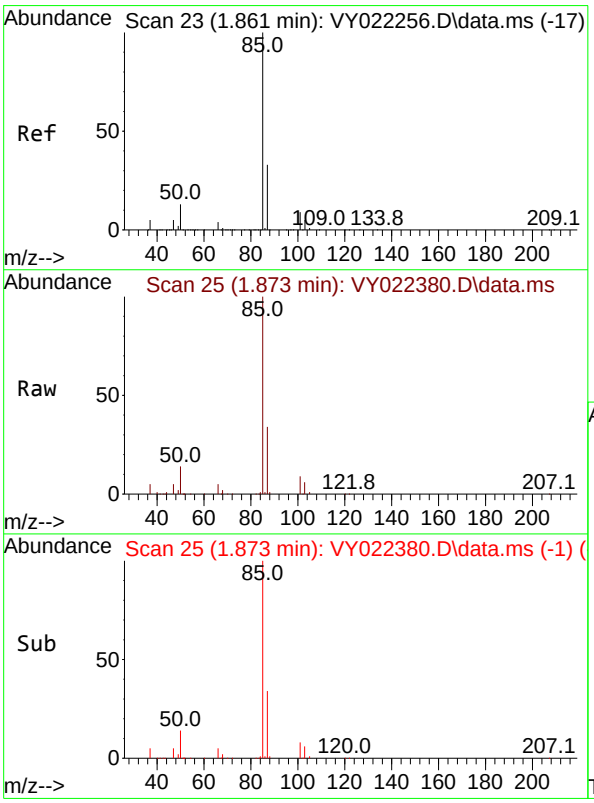
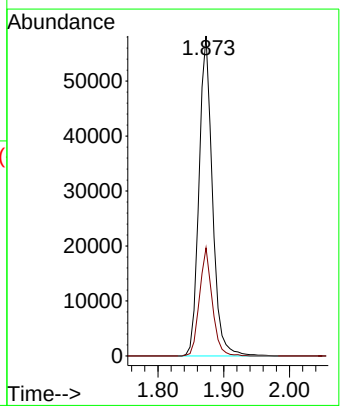
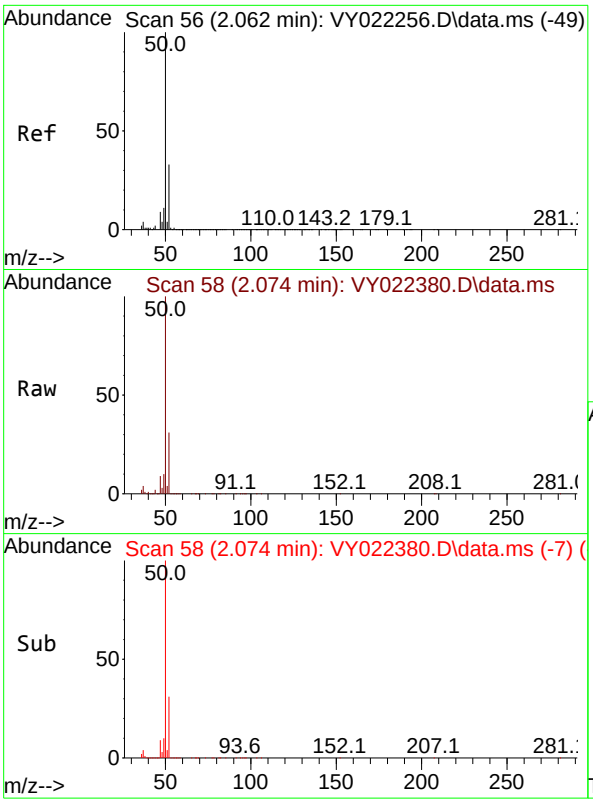



#2
Dichlorodifluoromethane
Concen: 49.047 ug/l
RT: 1.873 min Scan# 25
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 85 Resp: 82650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.8 | 16.5 | 49.5 |

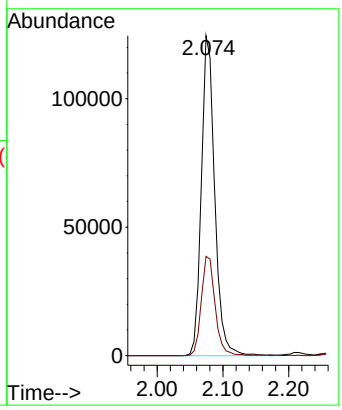





#3
Chloromethane
Concen: 49.773 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 50 Resp: 17643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.0 | 26.5 | 39.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/23/2025
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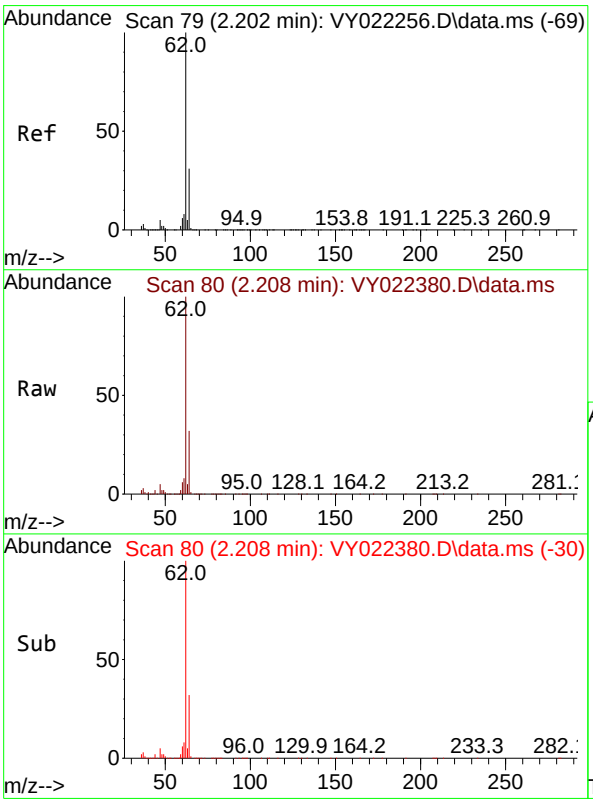
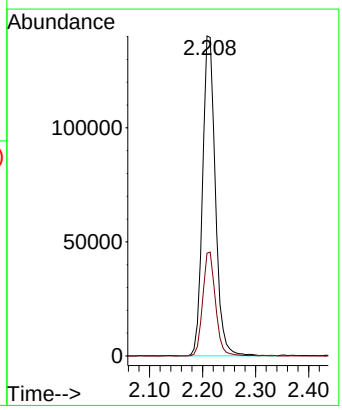
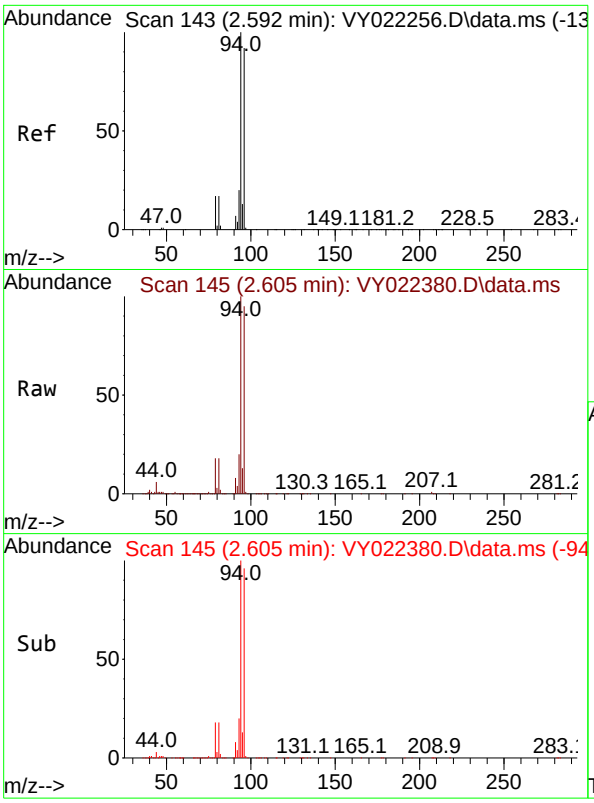



#4
Vinyl Chloride
Concen: 59.188 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 62 Resp: 234408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.1 | 24.5 | 36.7 |

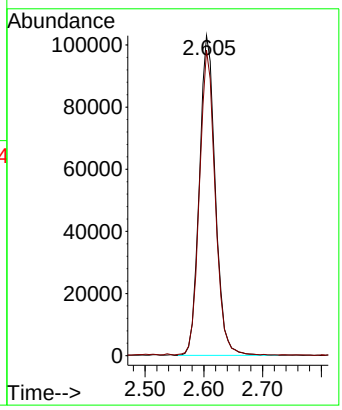





#5
Bromomethane
Concen: 60.227 ug/l
RT: 2.605 min Scan# 14
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 94 Resp: 19417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.4 | 73.4 | 110.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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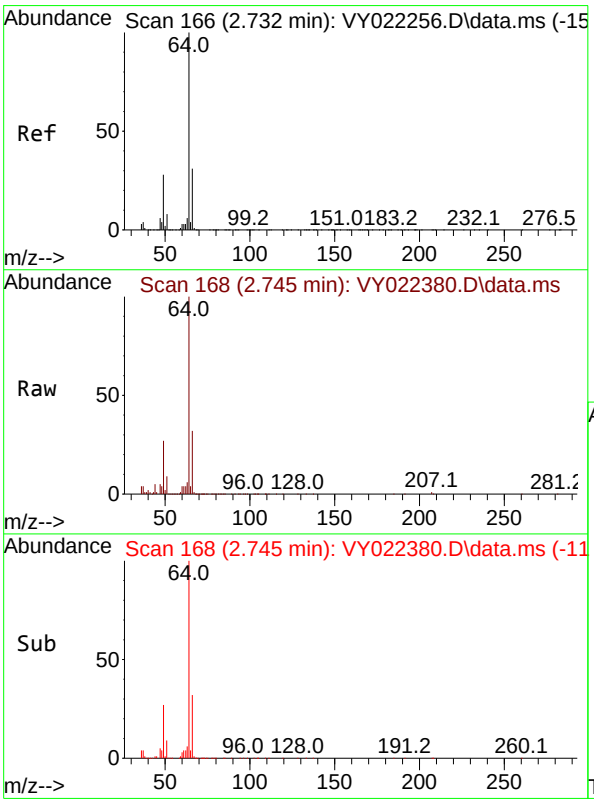
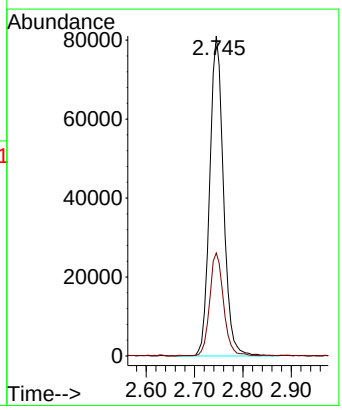
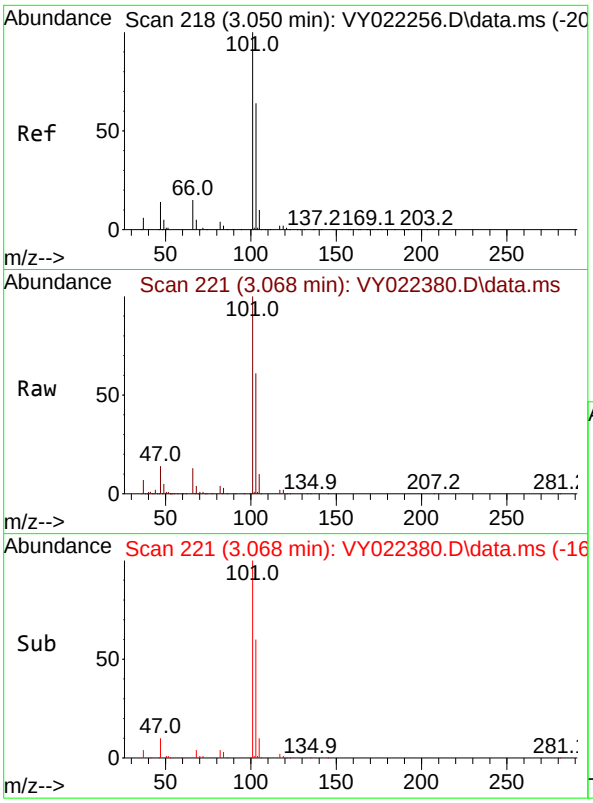



#6
Chloroethane
Concen: 65.048 ug/l
RT: 2.745 min Scan# 168
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 64 Resp: 160268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.0 | 24.8 | 37.2 |

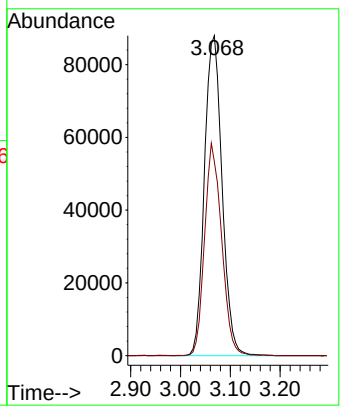





#7
Trichlorofluoromethane
Concen: 53.896 ug/l
RT: 3.068 min Scan# 2
Delta R.T. 0.018 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:101 Resp: 21610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 60.6 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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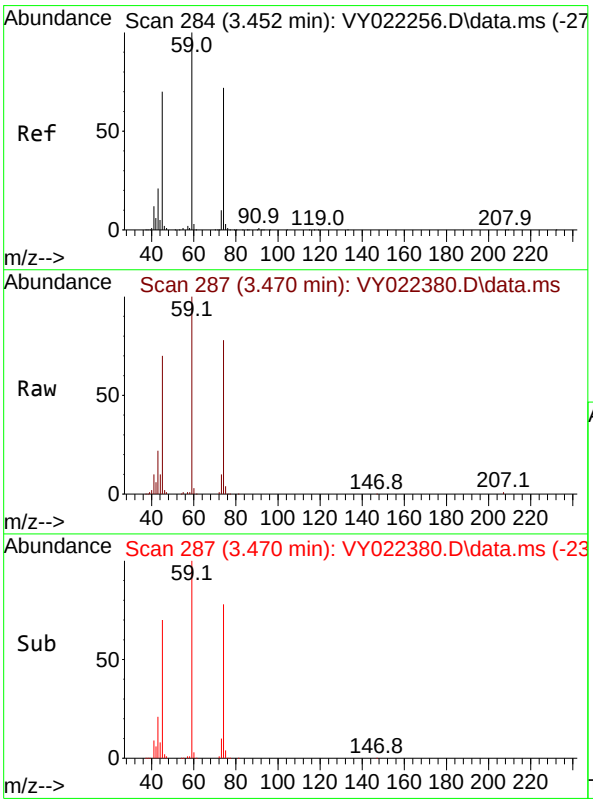
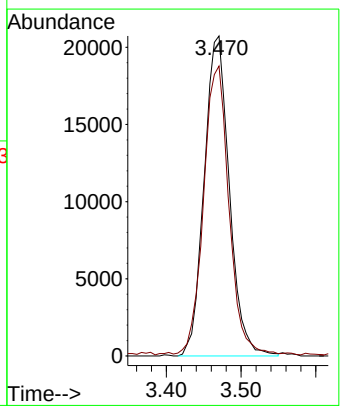
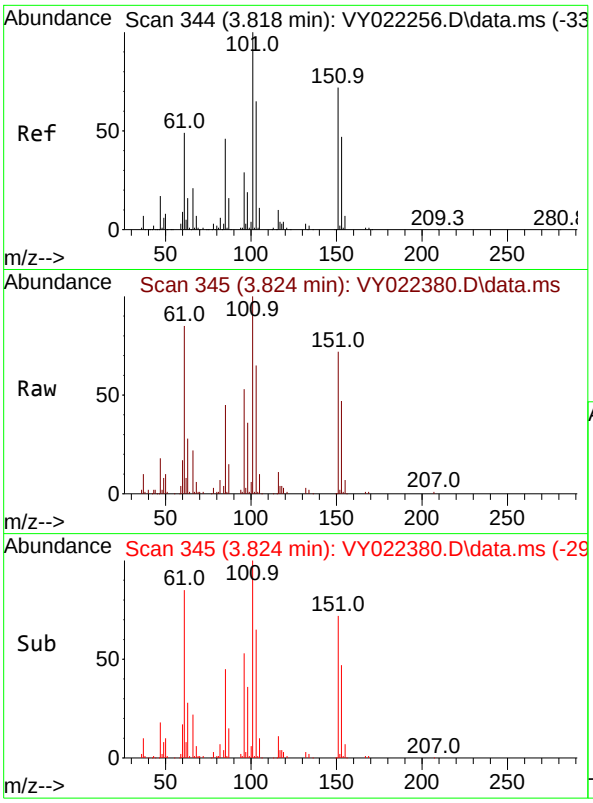



#8
Diethyl Ether
Concen: 50.471 ug/l
RT: 3.470 min Scan# 287
Delta R.T. 0.018 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 74 Resp: 48567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 91.3 | 48.6 | 145.8 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.692 ug/l
RT: 3.824 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:101 Resp: 9694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.5 | 38.6 | 58.0 |
| 151 | 73.1 | 59.7 | 89.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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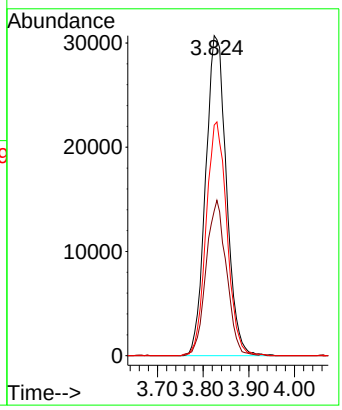
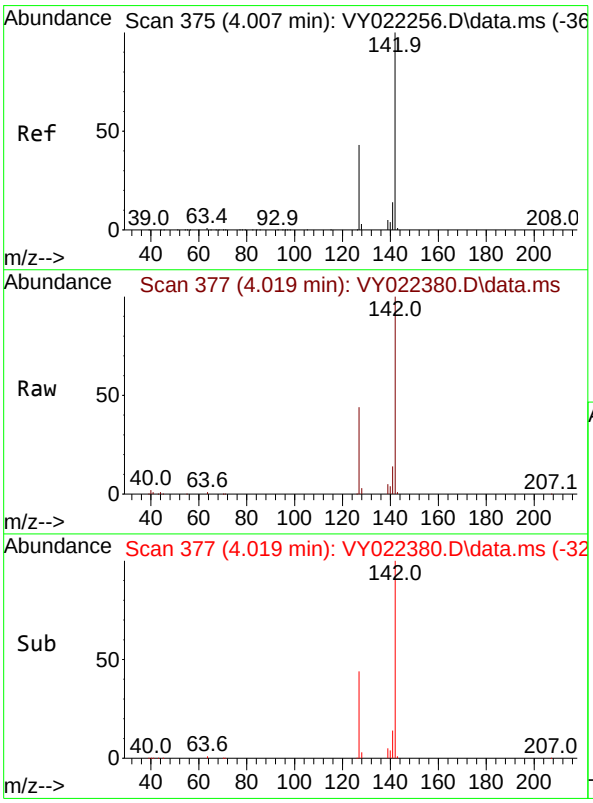
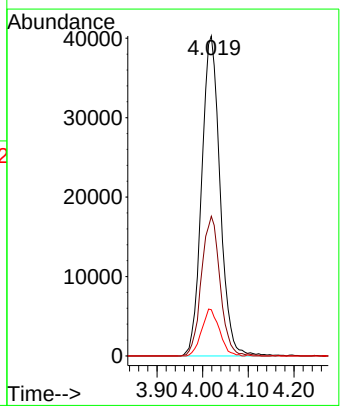


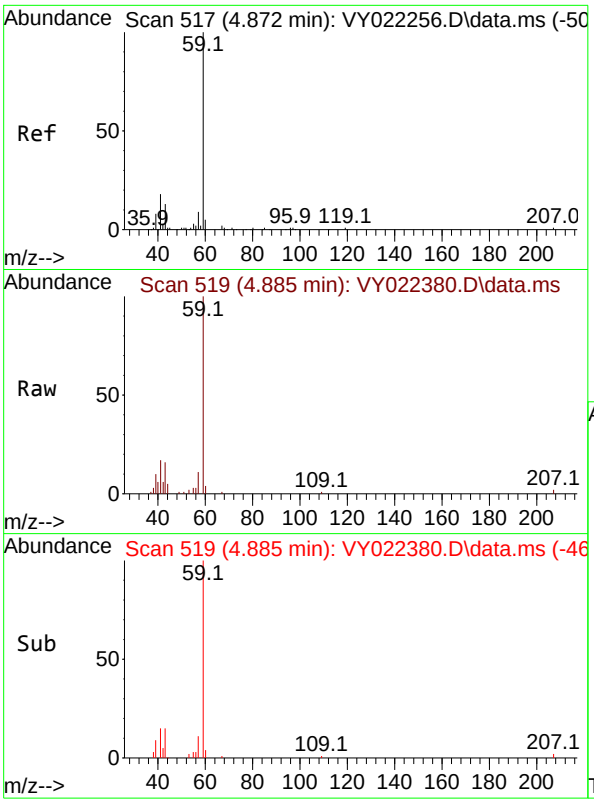




#10
Methyl Iodide
Concen: 55.849 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:142 Resp: 112522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.3 | 35.7 | 53.5 |
| 141 | 14.1 | 11.1 | 16.7 |

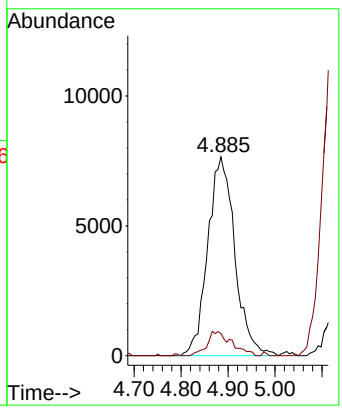





#11
Tert butyl alcohol
Concen: 227.243 ug/l
RT: 4.885 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 59 Resp: 3062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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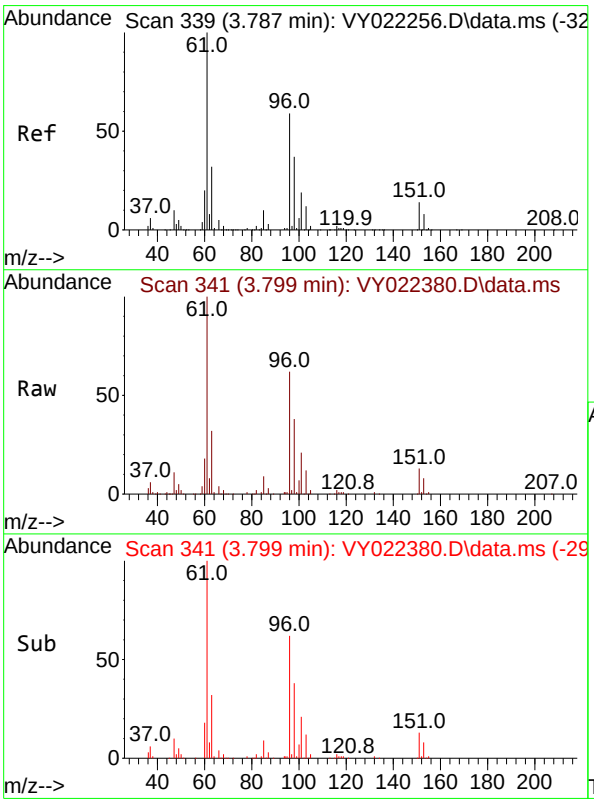
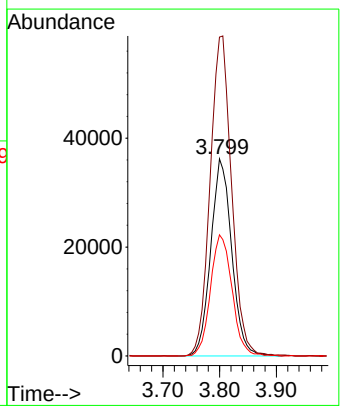
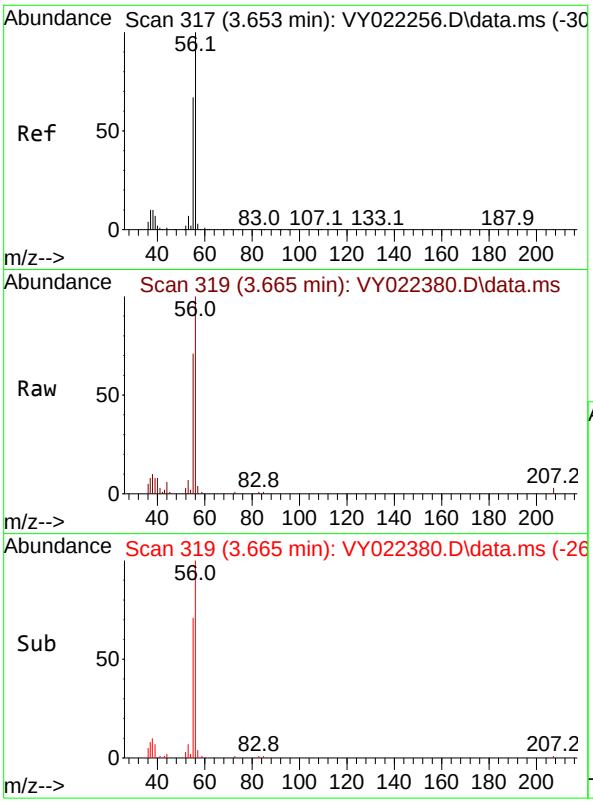



#12
1,1-Dichloroethene
Concen: 53.894 ug/l
RT: 3.799 min Scan# 341
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 96 Resp: 93099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.7 | 134.9 | 202.3 |
| 98 | 61.5 | 49.9 | 74.9 |

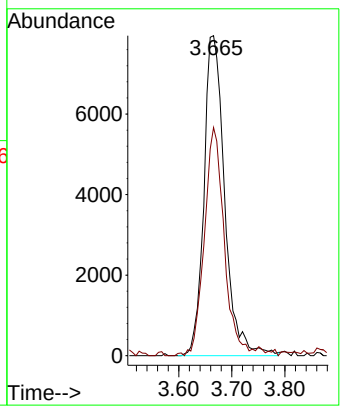





#13
Acrolein
Concen: 109.497 ug/l
RT: 3.665 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 56 Resp: 2157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.2 | 55.6 | 83.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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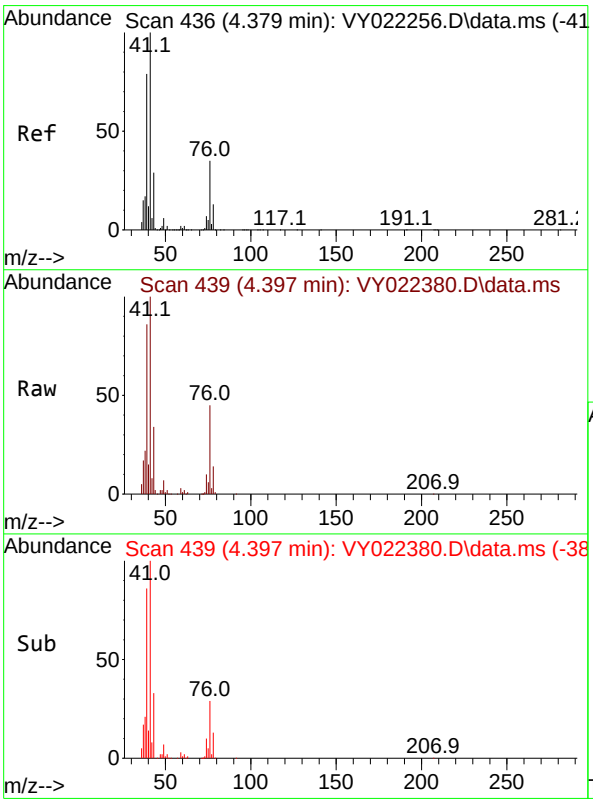
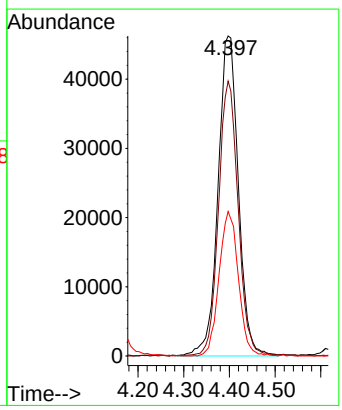
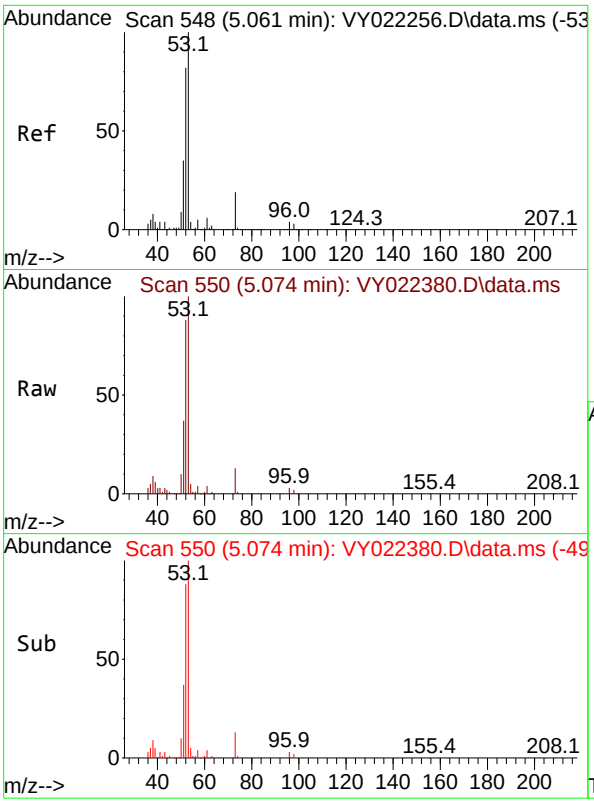



#14
Allyl chloride
Concen: 47.221 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.018 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 41 Resp: 143029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 83.0 | 63.4 | 95.0 |
| 76 | 42.9 | 29.5 | 44.3 |

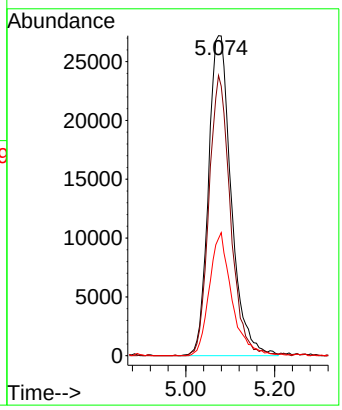





#15
Acrylonitrile
Concen: 243.864 ug/l
RT: 5.074 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 53 Resp: 9669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.5 | 66.1 | 99.1 |
| 51 | 37.8 | 30.0 | 45.0 |




**Instrument :**
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**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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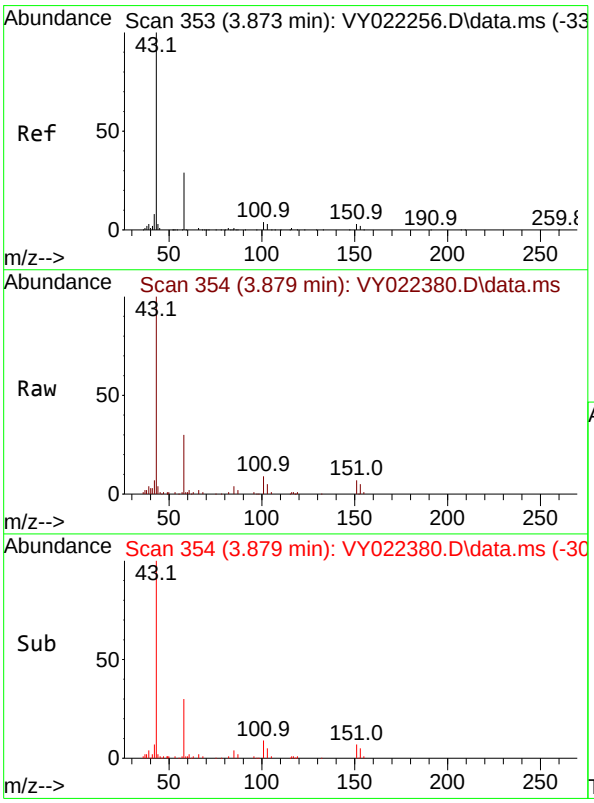
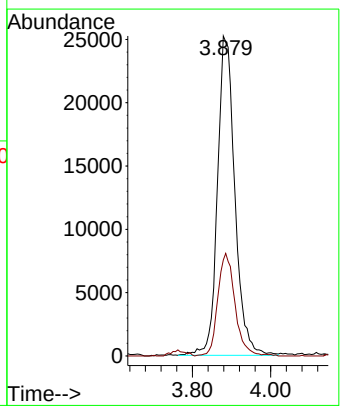
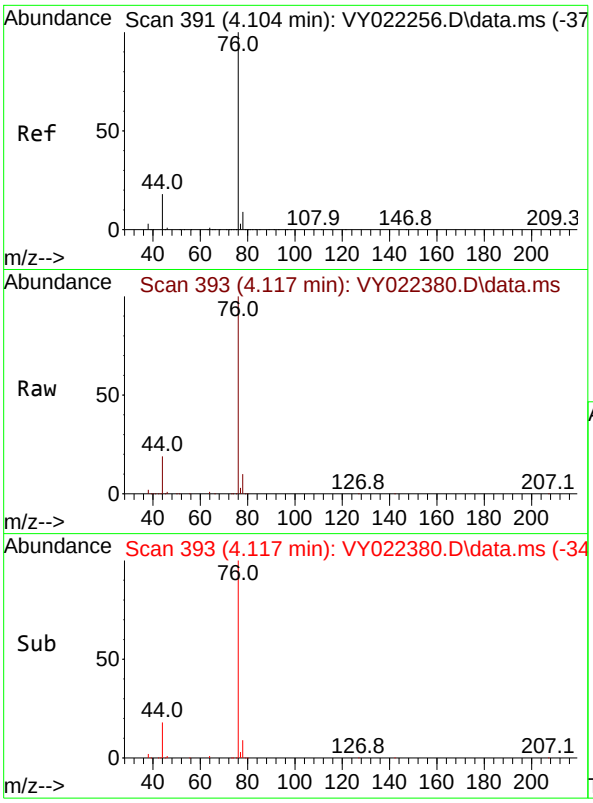



#16
Acetone
Concen: 235.333 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 43 Resp: 77883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.1 | 23.6 | 35.4 |

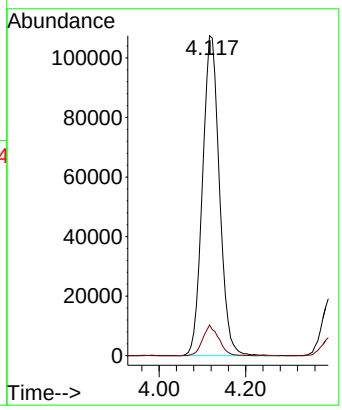





#17
Carbon Disulfide
Concen: 51.759 ug/l
RT: 4.117 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 76 Resp: 29156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.6 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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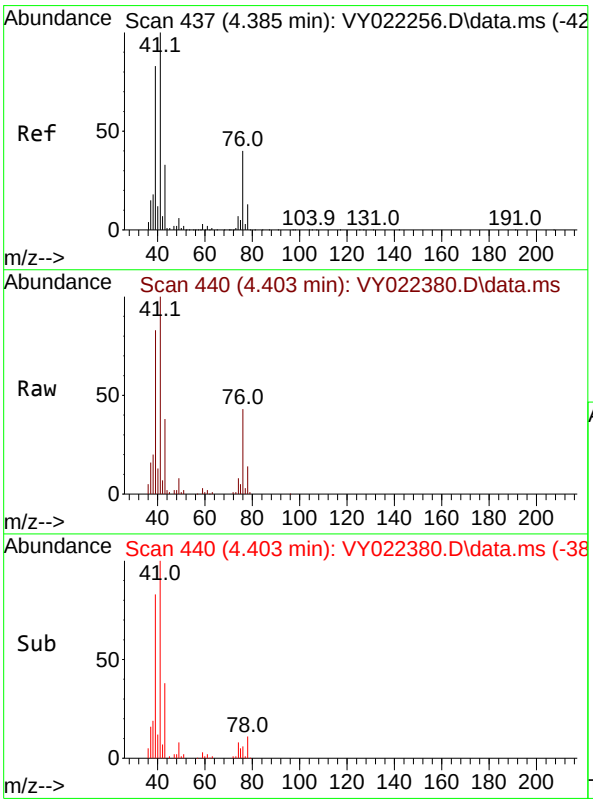
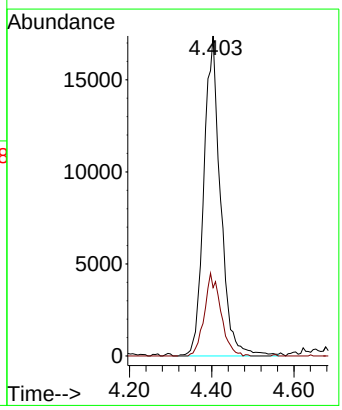
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

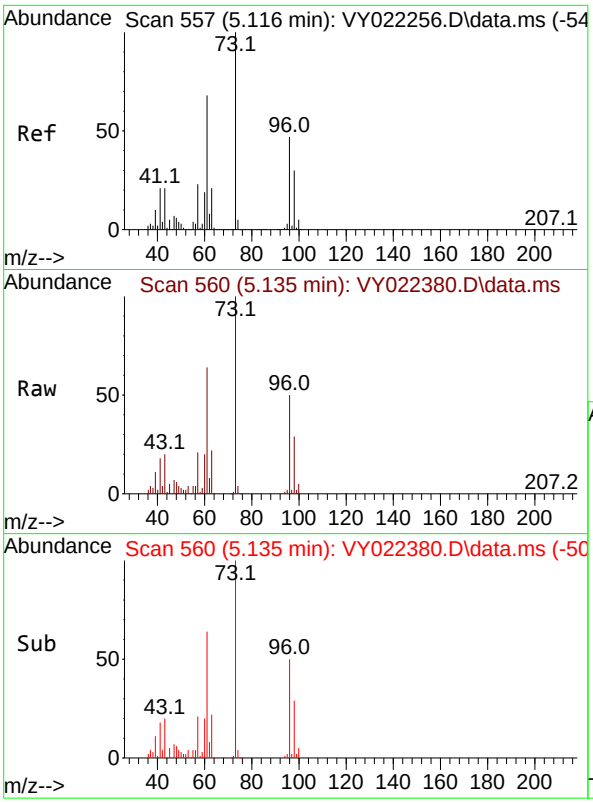



#18
Methyl Acetate
Concen: 46.981 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.018 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 43 Resp: 49022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.5 | 18.2 | 27.4 |

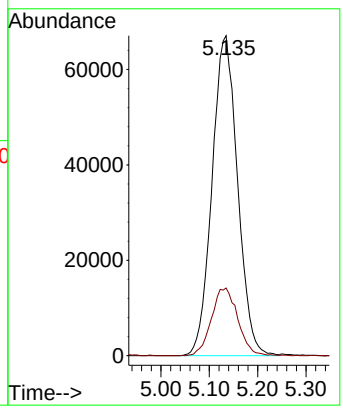





#19
Methyl tert-butyl Ether
Concen: 51.604 ug/l
RT: 5.135 min Scan# 5
Delta R.T. 0.018 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 73 Resp: 24579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.2 | 18.6 | 28.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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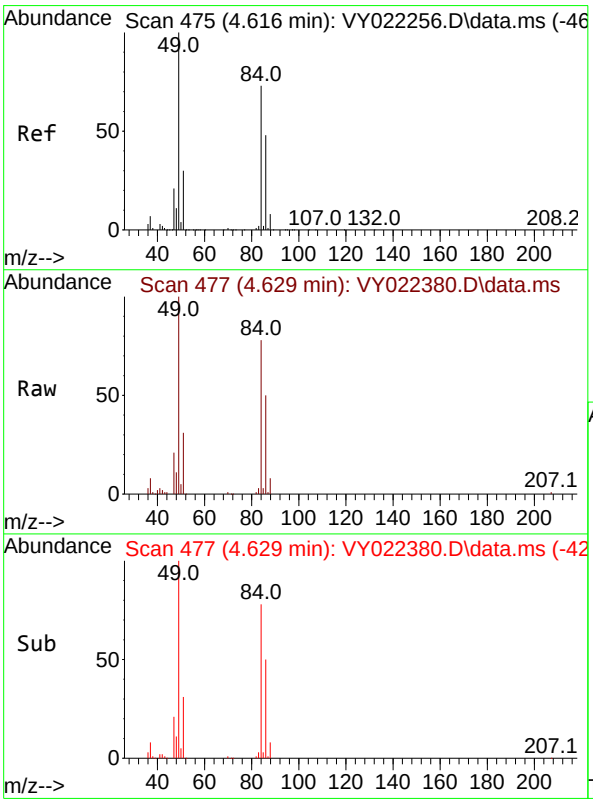
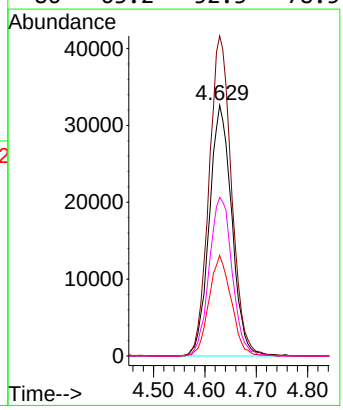
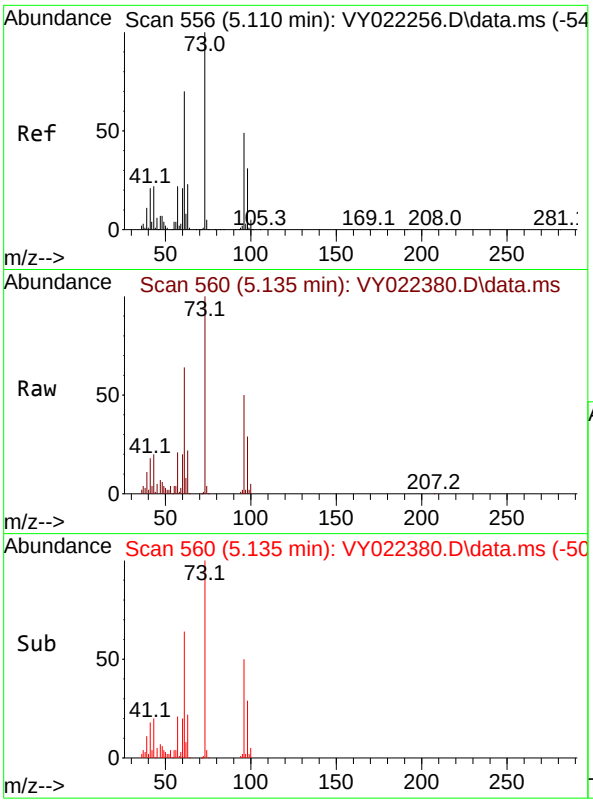



#20
Methylene Chloride
Concen: 46.380 ug/l
RT: 4.629 min Scan# 477
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 84 Resp: 99182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 127.6 | 109.6 | 164.4 |
| 51 | 40.1 | 32.4 | 48.6 |
| 86 | 63.2 | 52.3 | 78.5 |






#21
trans-1,2-Dichloroethene
Concen: 53.333 ug/l
RT: 5.135 min Scan# 5
Delta R.T. 0.025 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 96 Resp: 10169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 129.3 | 113.4 | 170.0 |
| 98 | 59.4 | 50.9 | 76.3 |

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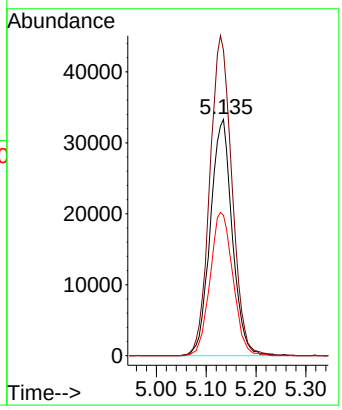
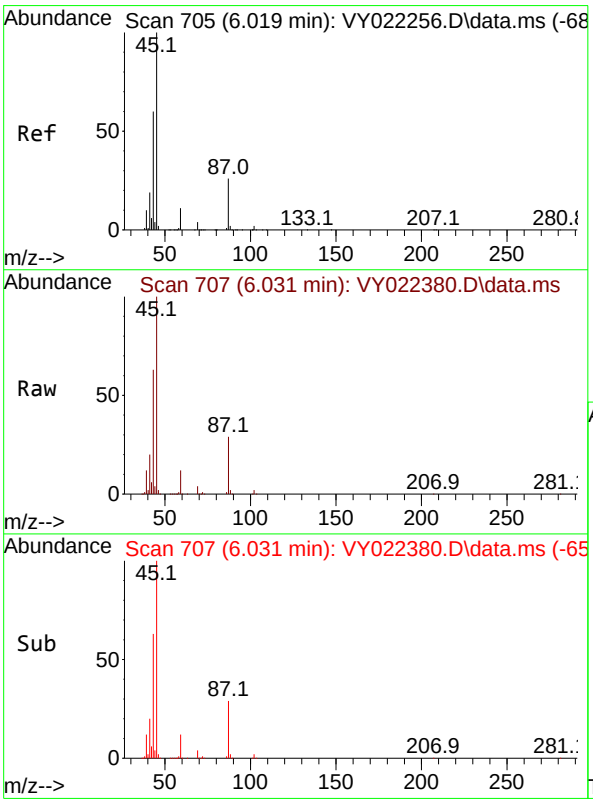
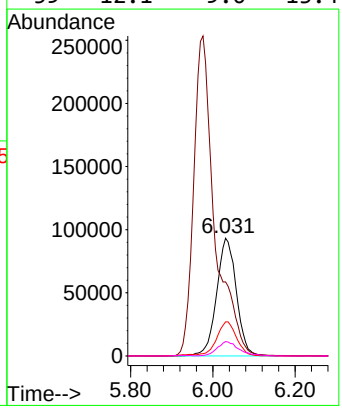


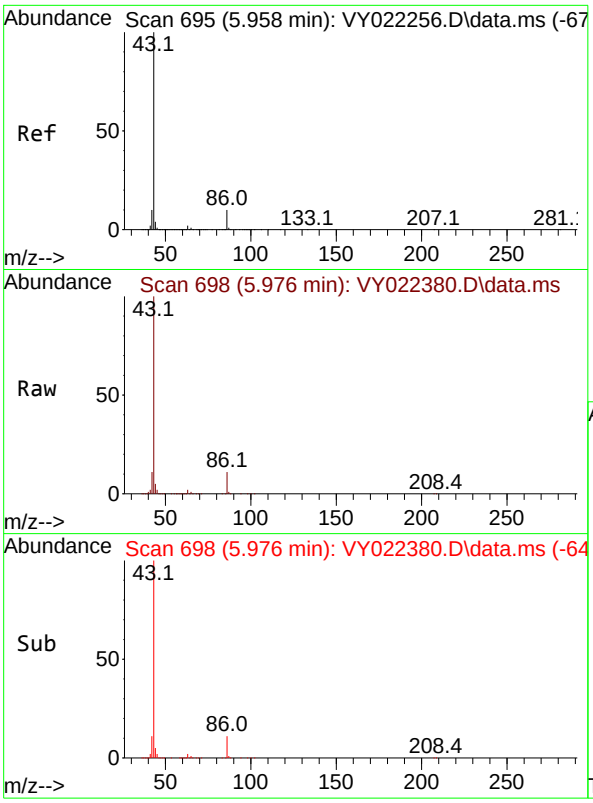




#22
Diisopropyl ether
Concen: 48.607 ug/l
RT: 6.031 min Scan# 707
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 45 Resp: 310912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 62.4 | 48.2 | 72.2 |
| 87 | 28.9 | 21.4 | 32.0 |
| 59 | 12.1 | 9.0 | 13.4 |

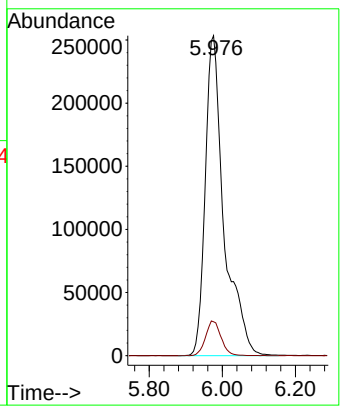





#23
Vinyl Acetate
Concen: 232.677 ug/l
RT: 5.976 min Scan# 6
Delta R.T. 0.018 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 43 Resp: 89914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.6 | 7.8 | 11.8 |

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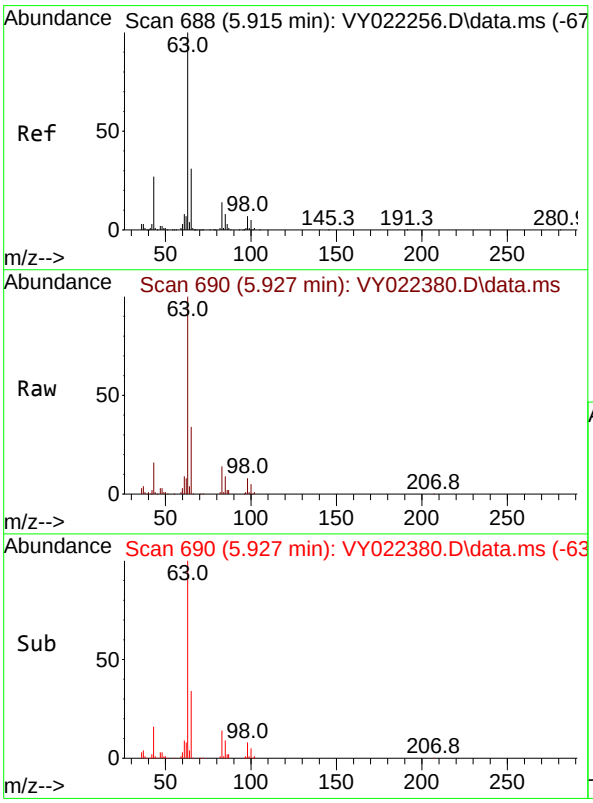
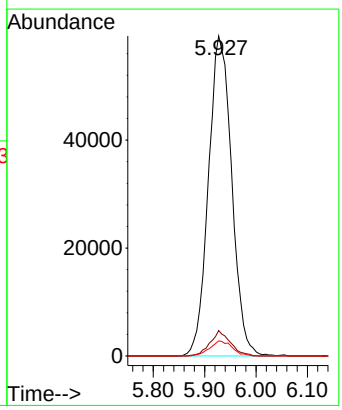
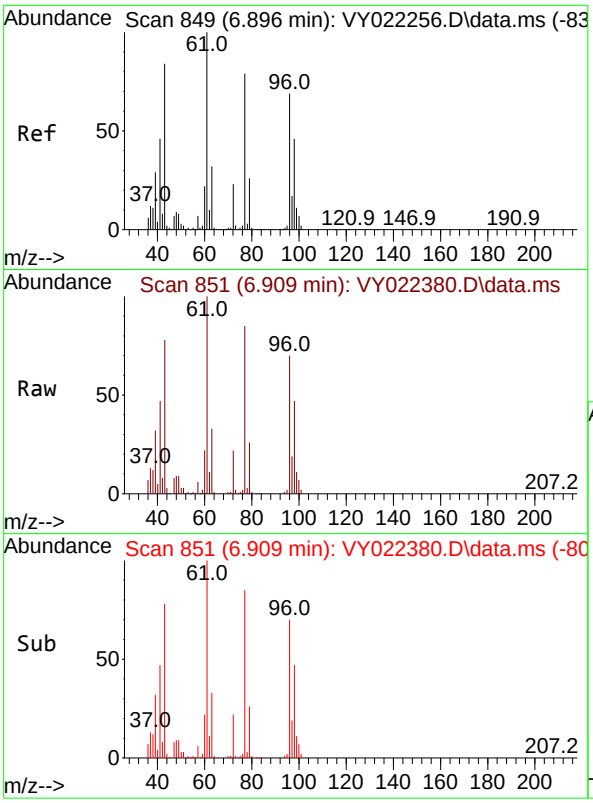



#24
1,1-Dichloroethane
Concen: 52.212 ug/l
RT: 5.927 min Scan# 690
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 63 Resp: 186582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.9 | 3.5 | 10.5 |
| 100 | 4.7 | 2.4 | 7.2 |






#25
2-Butanone
Concen: 225.284 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 43 Resp: 12471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.0 | 22.1 | 33.1 |

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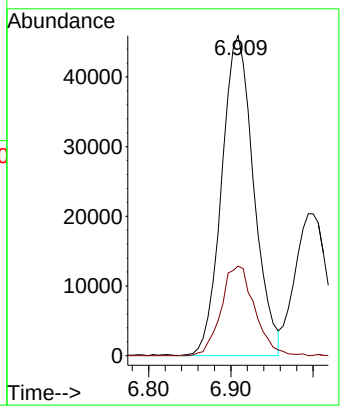
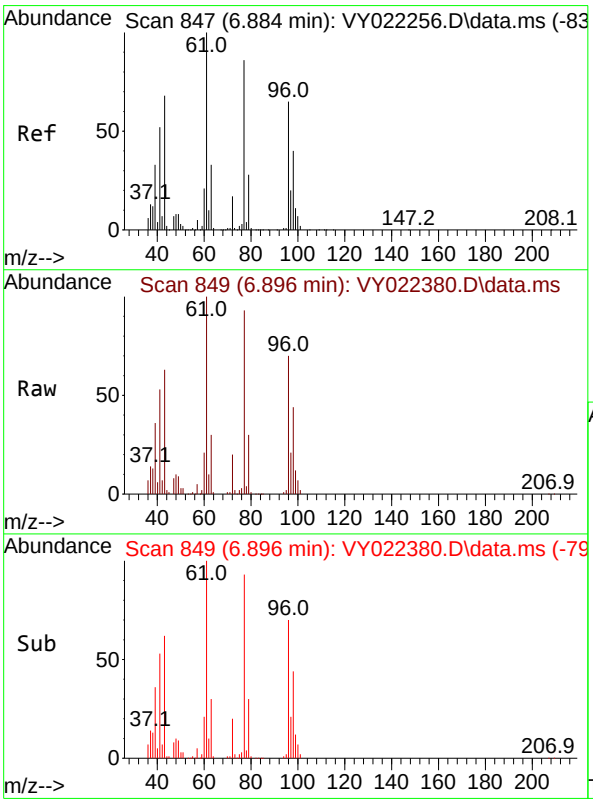
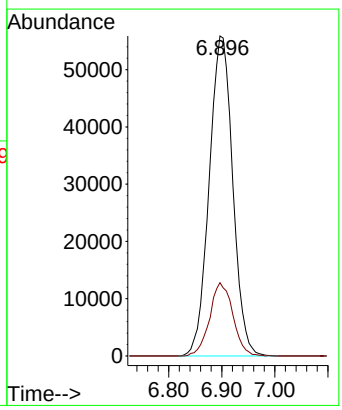


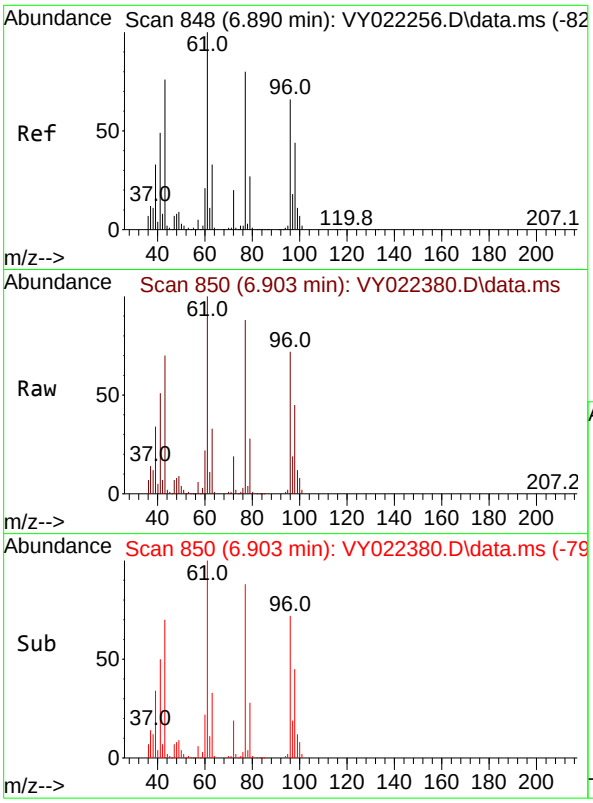




#26
2,2-Dichloropropane
Concen: 54.202 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 77 Resp: 172279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.6 | 11.2 | 33.5 |






#27
cis-1,2-Dichloroethene
Concen: 54.417 ug/l
RT: 6.903 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 96 Resp: 11973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 146.1 | 0.0 | 302.6 |
| 98 | 64.8 | 0.0 | 128.8 |

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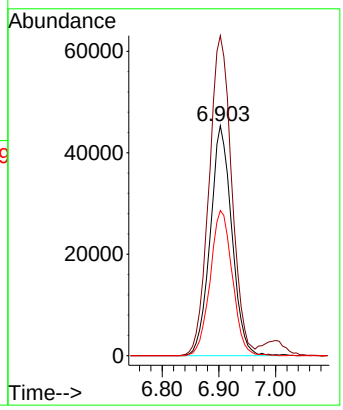
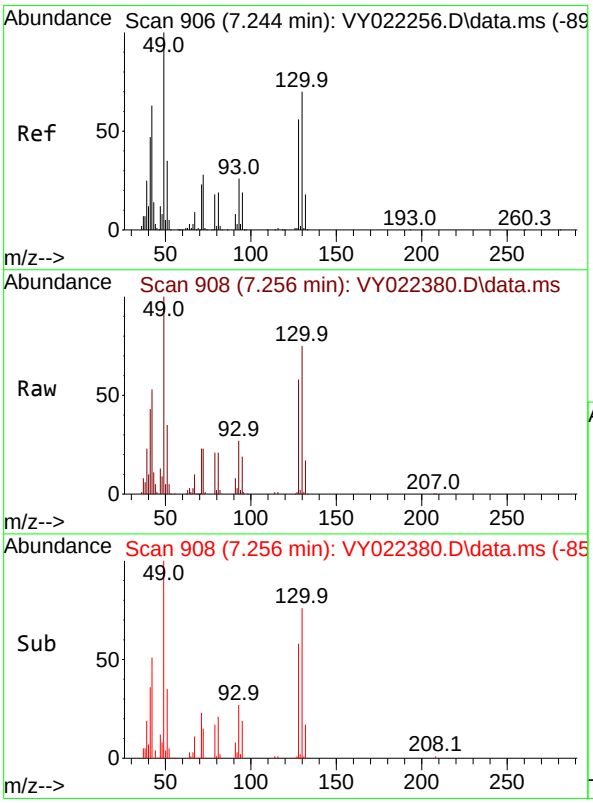
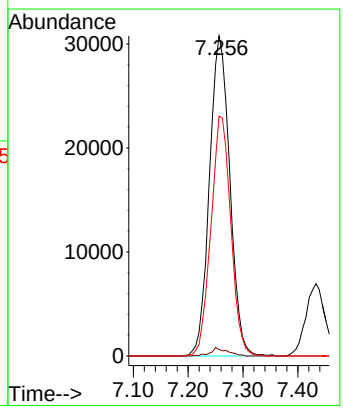


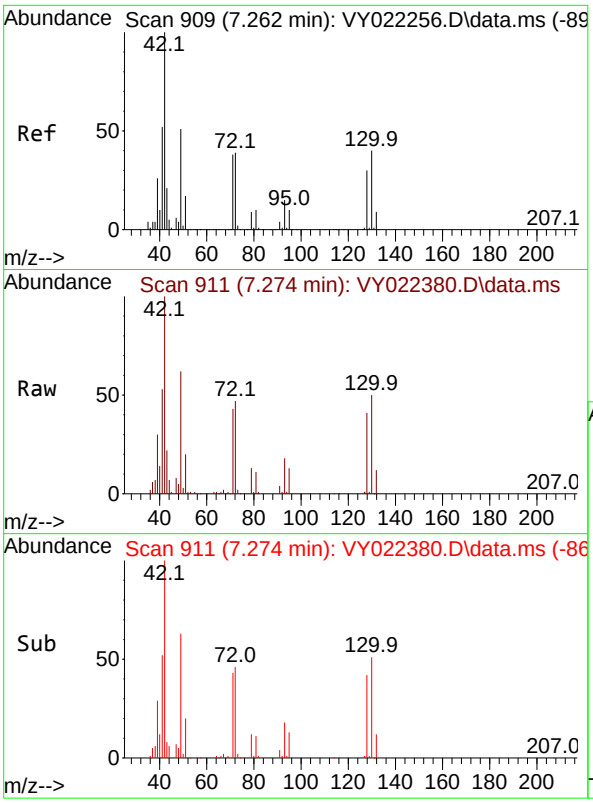




#28
Bromochloromethane
Concen: 51.923 ug/l
RT: 7.256 min Scan# 908
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 49 Resp: 79145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 3.6 |
| 130 | 73.2 | 54.7 | 82.1 |

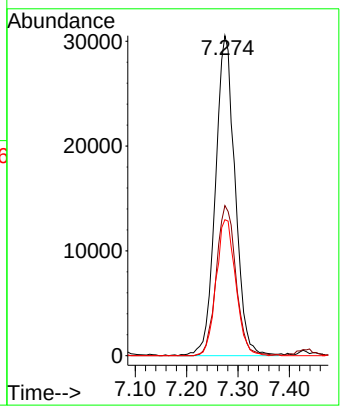





#29
Tetrahydrofuran
Concen: 227.418 ug/l
RT: 7.274 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 42 Resp: 8099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.2 | 33.8 | 50.6 |
| 71 | 42.5 | 31.5 | 47.3 |

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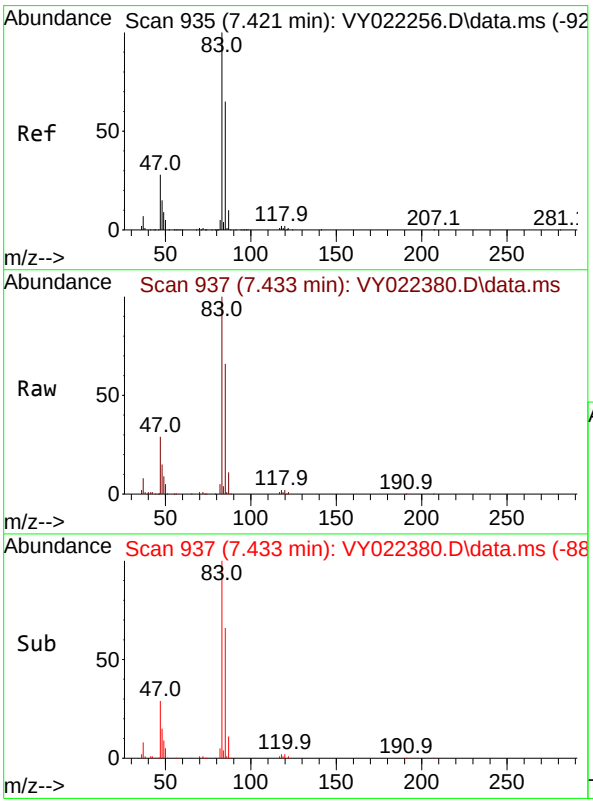
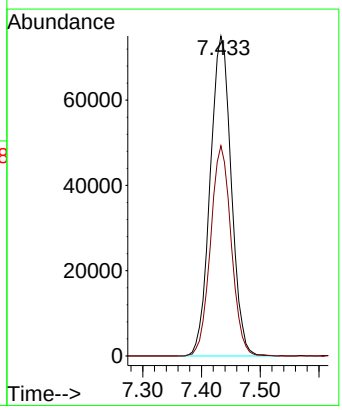
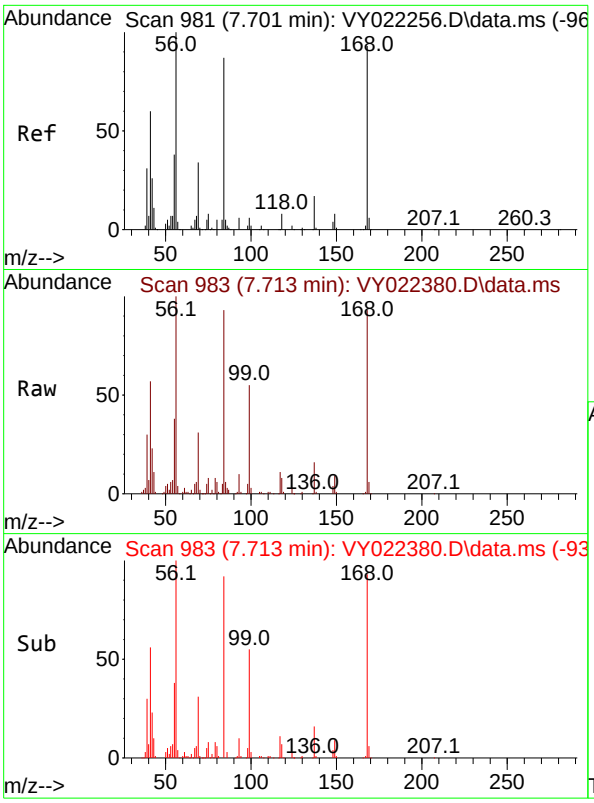



#30
Chloroform
Concen: 54.509 ug/l
RT: 7.433 min Scan# 937
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 83 Resp: 186842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.7 | 51.8 | 77.8 |

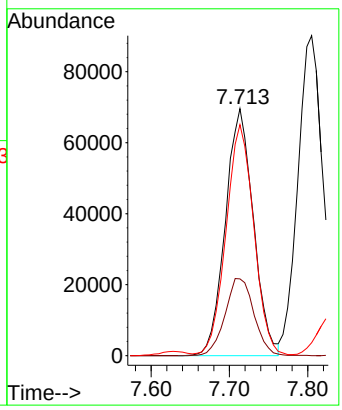





#31
Cyclohexane
Concen: 48.489 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 56 Resp: 17313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.1 | 27.4 | 41.2 |
| 84 | 91.9 | 70.0 | 105.0 |




**Instrument :**
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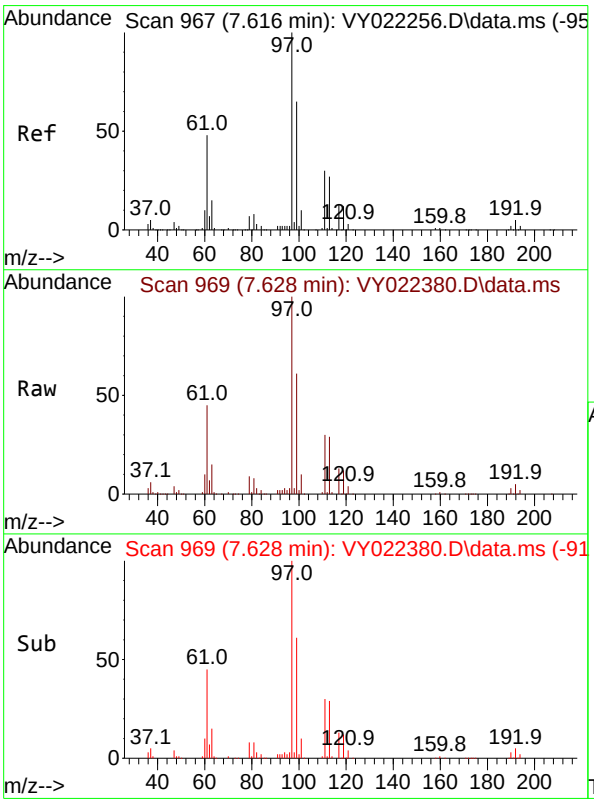
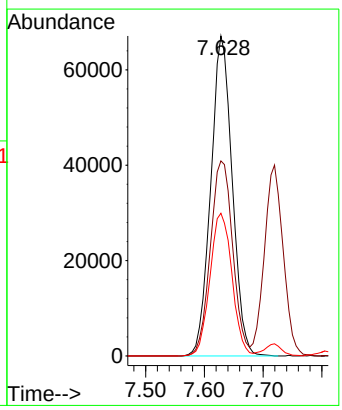
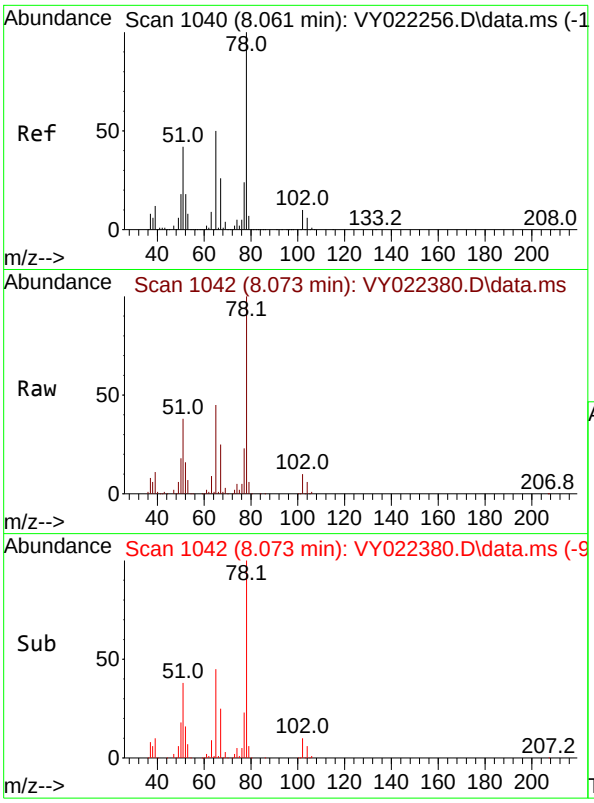



#32
1,1,1-Trichloroethane
Concen: 54.115 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 97 Resp: 170179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.7 | 51.4 | 77.0 |
| 61 | 45.9 | 38.1 | 57.1 |

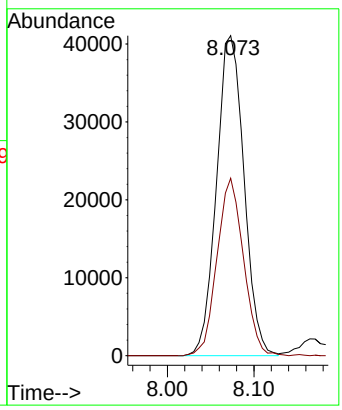





#33
1,2-Dichloroethane-d4
Concen: 51.370 ug/l
RT: 8.073 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 65 Resp: 9066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.4 | 0.0 | 104.6 |

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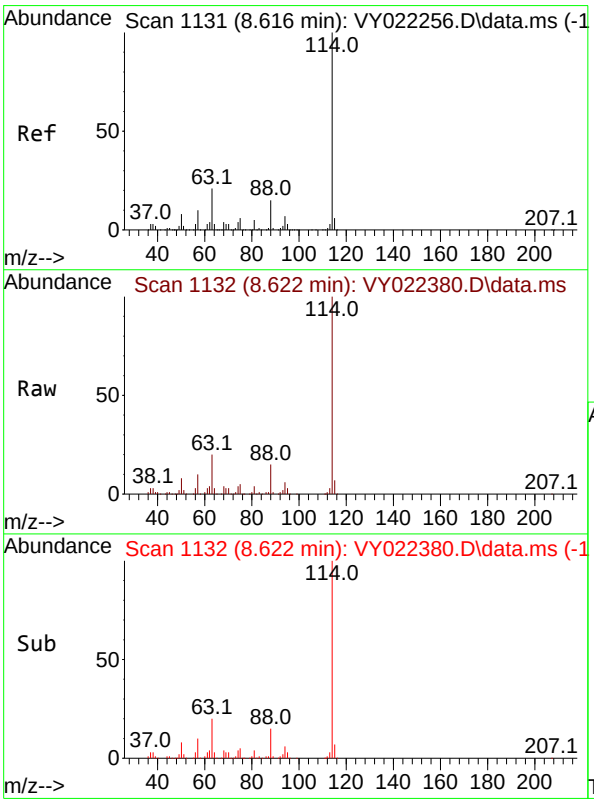
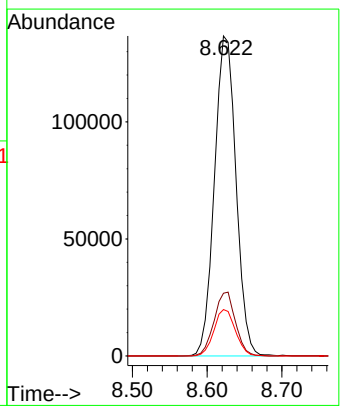
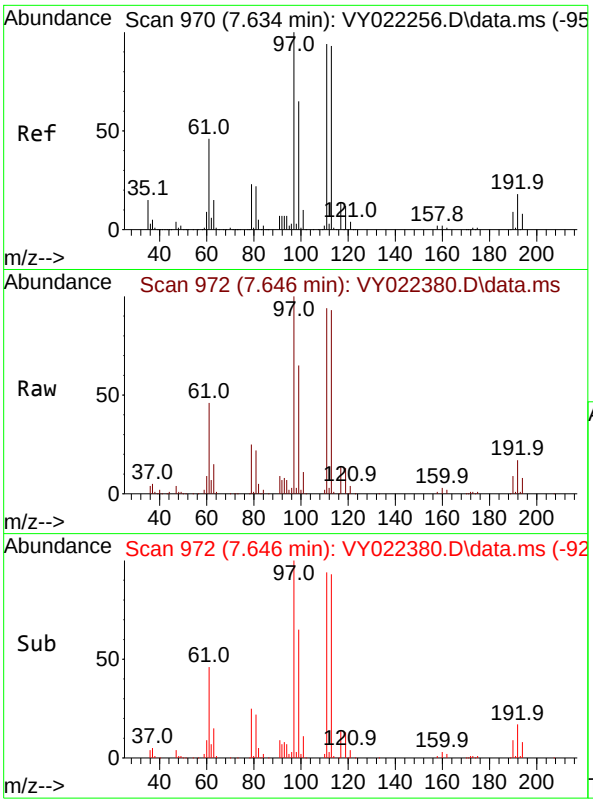



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:114 Resp: 274168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.6 | 0.0 | 41.0 |
| 88 | 14.5 | 0.0 | 29.4 |

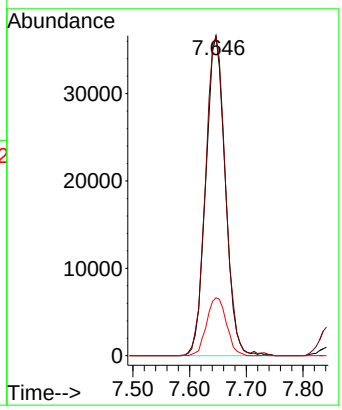





#35
Dibromofluoromethane
Concen: 53.337 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:113 Resp: 8728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.7 | 82.6 | 123.8 |
| 192 | 18.5 | 15.2 | 22.8 |




**Instrument :**
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**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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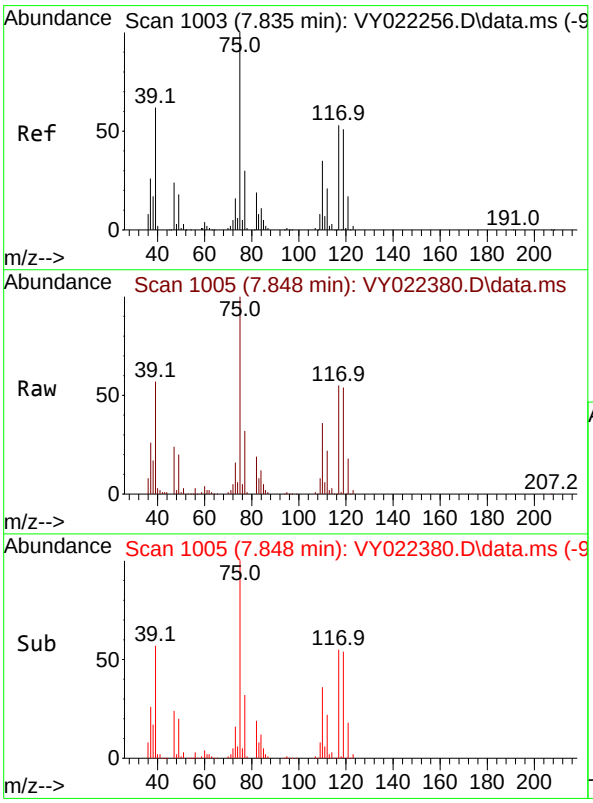
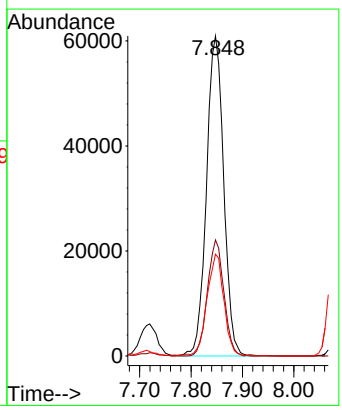
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

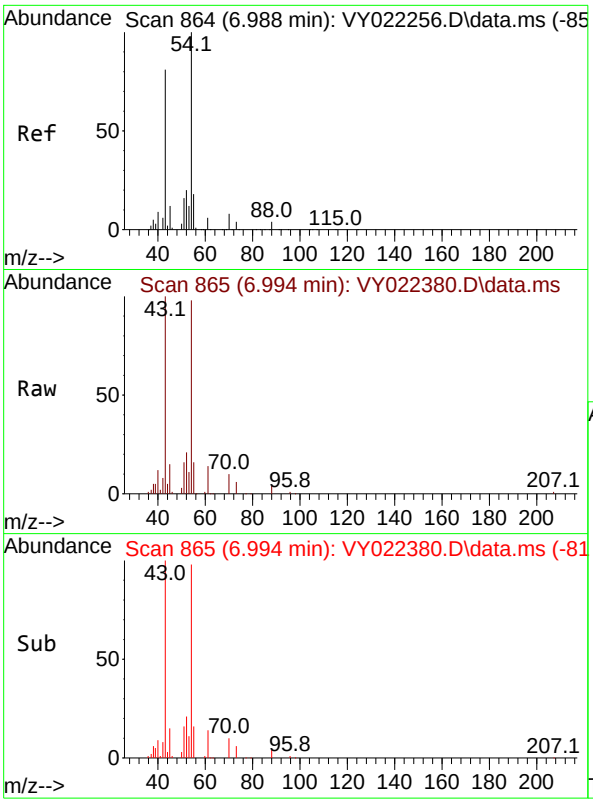



#36
1,1-Dichloropropene
Concen: 52.597 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 75 Resp: 141766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.7 | 16.6 | 49.8 |
| 77 | 31.2 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 44.661 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 43 Resp: 5791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.9 | 10.2 | 15.2 |
| 70 | 9.8 | 7.6 | 11.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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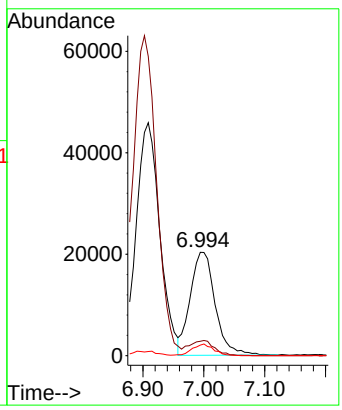
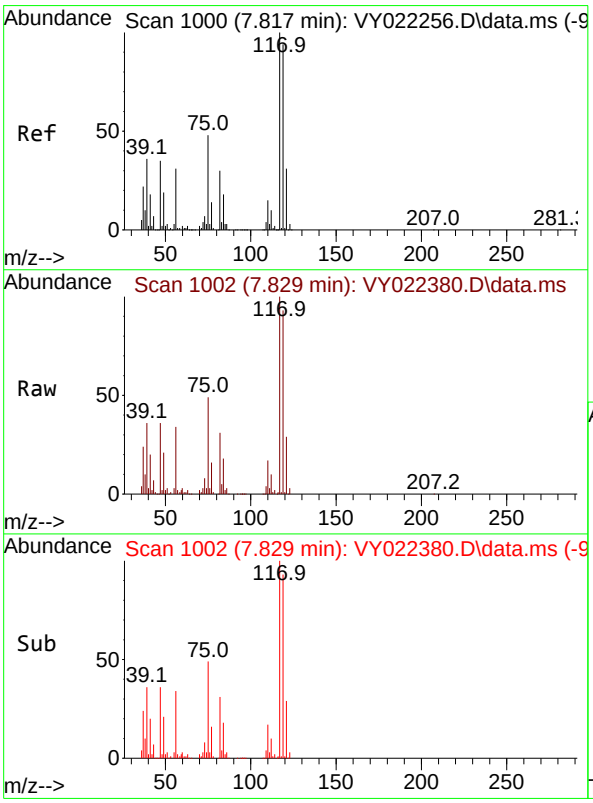
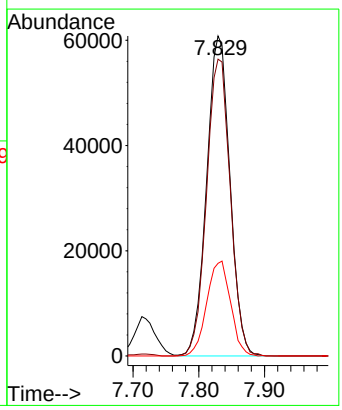


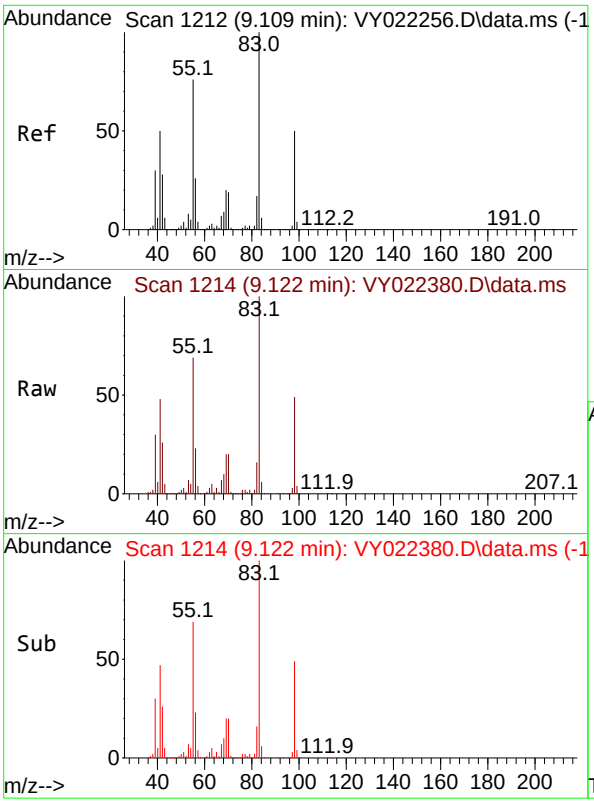




#38
Carbon Tetrachloride
Concen: 53.827 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:117 Resp: 150177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 92.7 | 75.3 | 112.9 |
| 121 | 29.0 | 24.7 | 37.1 |

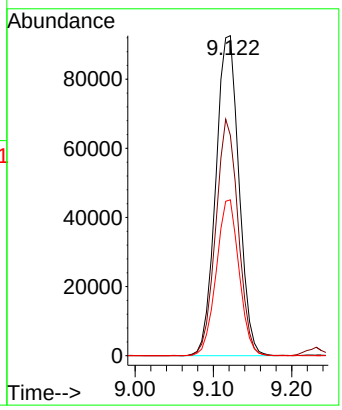





#39
Methylcyclohexane
Concen: 52.569 ug/l
RT: 9.122 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 83 Resp: 19036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 68.8 | 60.6 | 90.8 |
| 98 | 48.7 | 40.0 | 60.0 |

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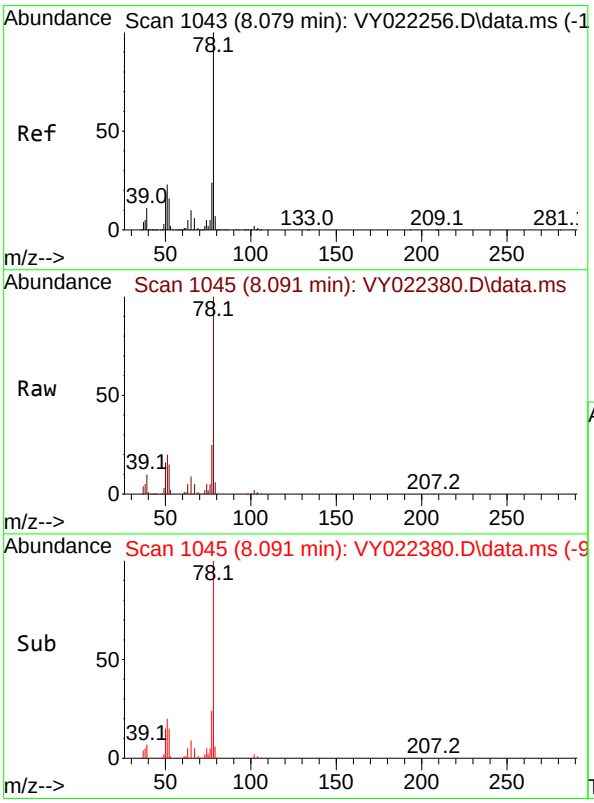
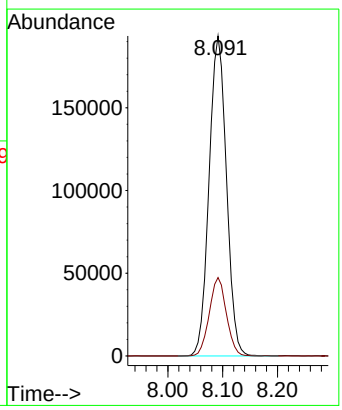
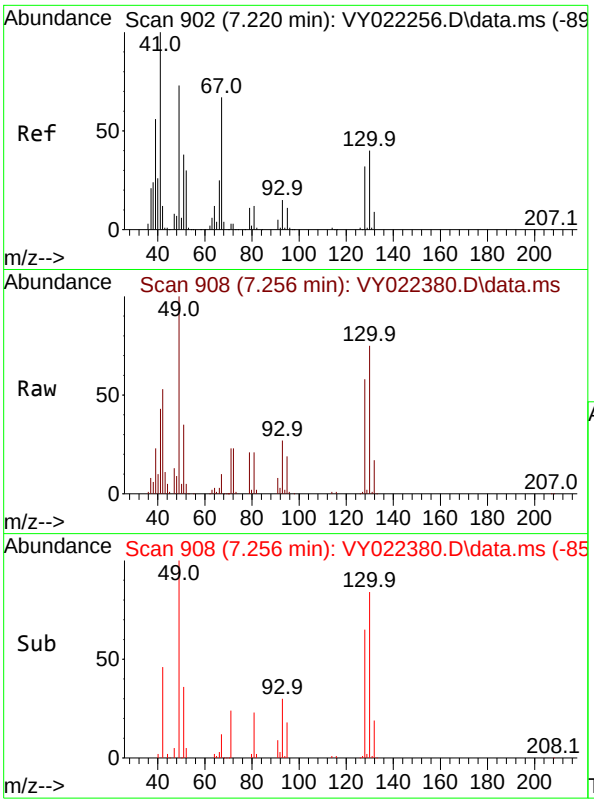



#40
Benzene
Concen: 53.106 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 78 Resp: 424335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.5 | 18.9 | 28.3 |

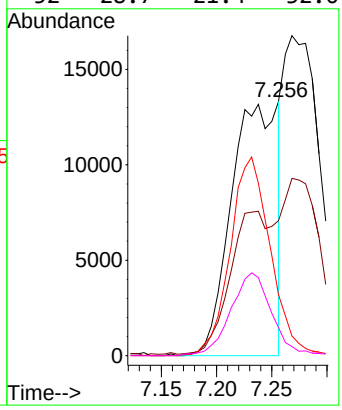





#41
Methacrylonitrile
Concen: 45.426 ug/l m
RT: 7.256 min Scan# 9
Delta R.T. 0.037 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 41 Resp: 3907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 42.8 | 39.1 | 58.7 |
| 67 | 67.6 | 47.1 | 70.7 |
| 52 | 28.7 | 21.4 | 32.0 |




**Instrument :**
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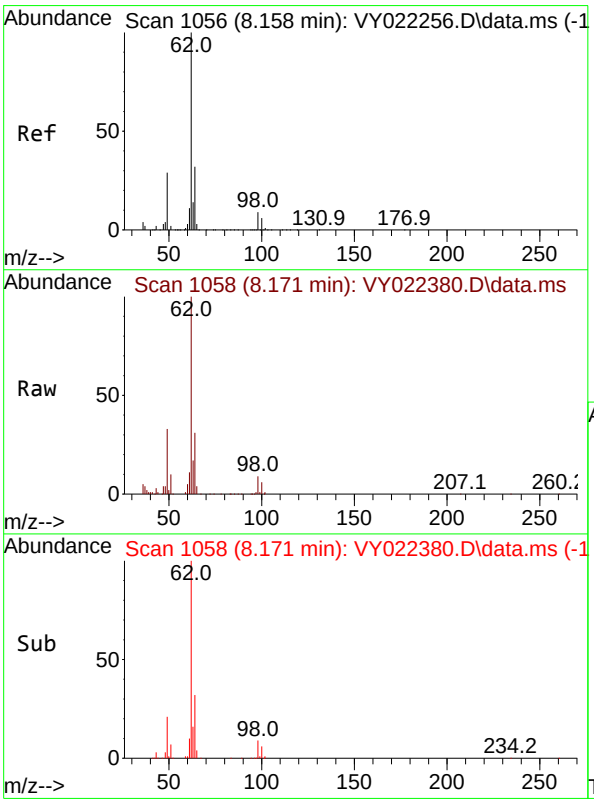
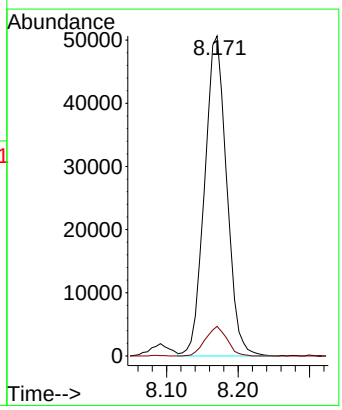
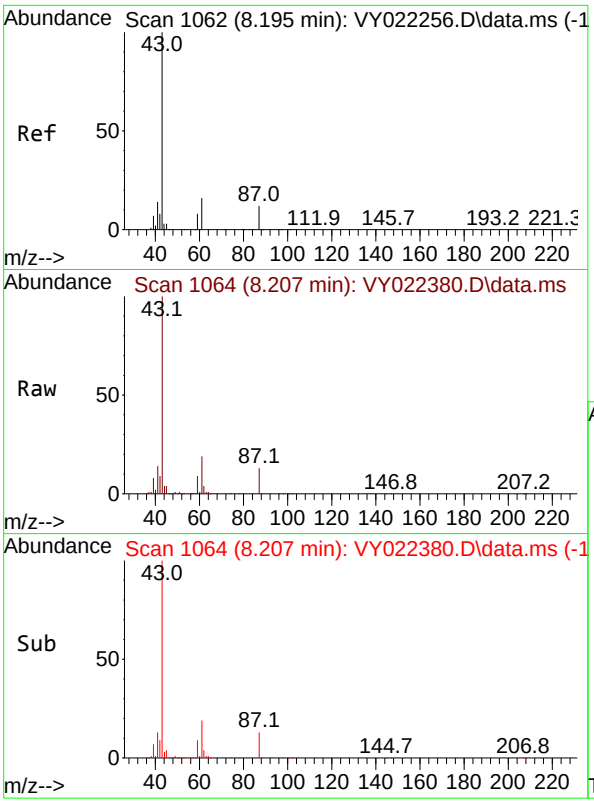



#42
1,2-Dichloroethane
Concen: 50.267 ug/l
RT: 8.171 min Scan# 1058
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 62 Resp: 108617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.0 | 0.0 | 18.4 |

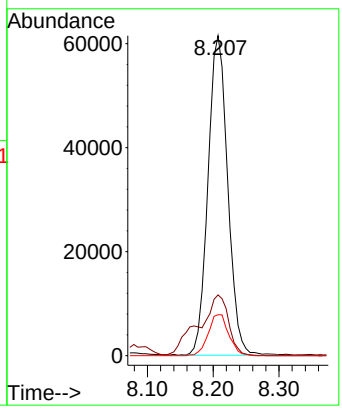





#43
Isopropyl Acetate
Concen: 45.395 ug/l
RT: 8.207 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 43 Resp: 12839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 28.8 | 15.1 | 22.7# |
| 87 | 13.4 | 9.7 | 14.5 |

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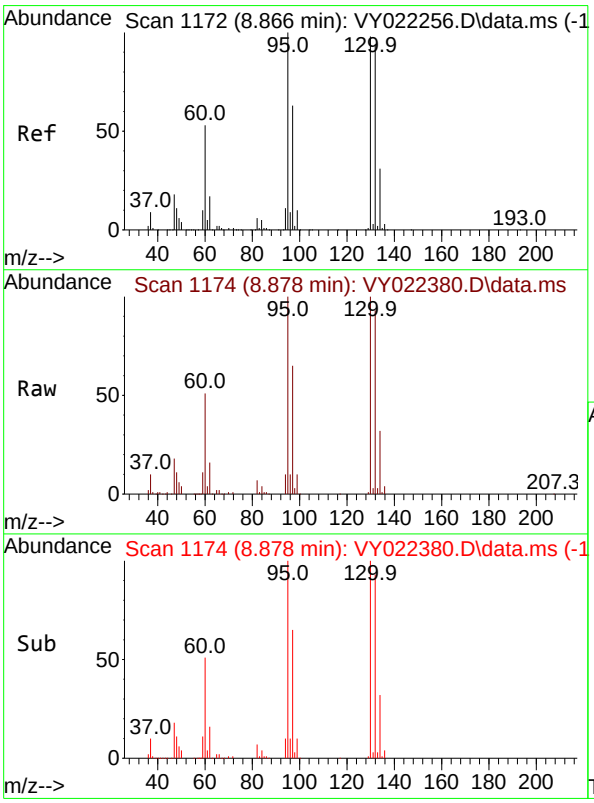
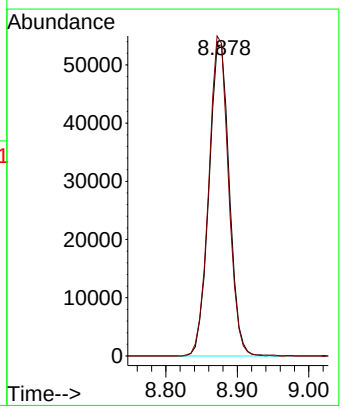
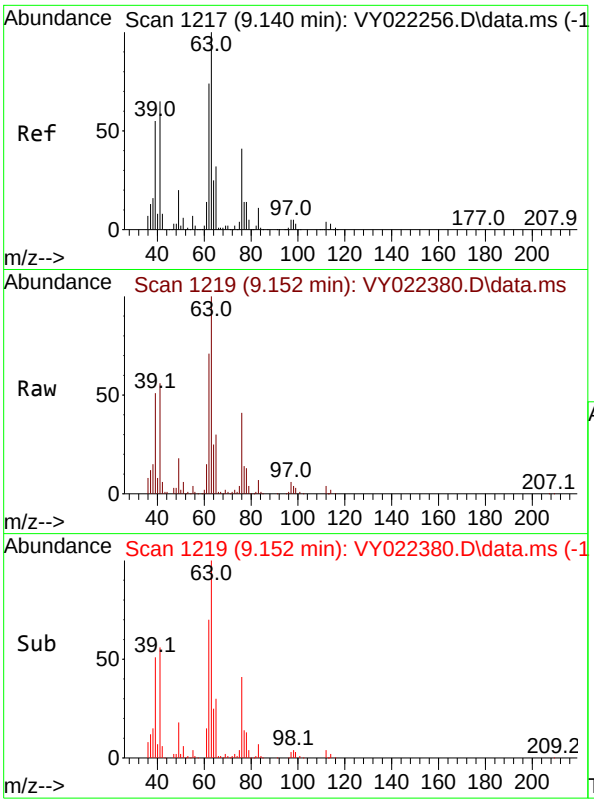



#44
Trichloroethene
Concen: 53.190 ug/l
RT: 8.878 min Scan# 1174
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:130 Resp: 105676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.4 | 0.0 | 204.8 |






#45
1,2-Dichloropropane
Concen: 51.460 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 63 Resp: 9913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.5 | 25.7 | 38.5 |

**Instrument :**
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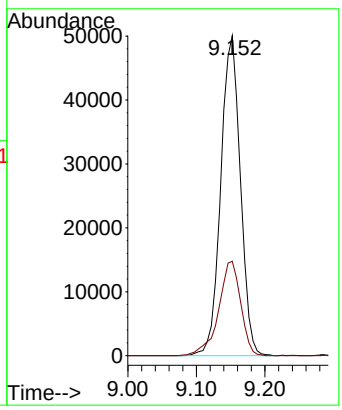
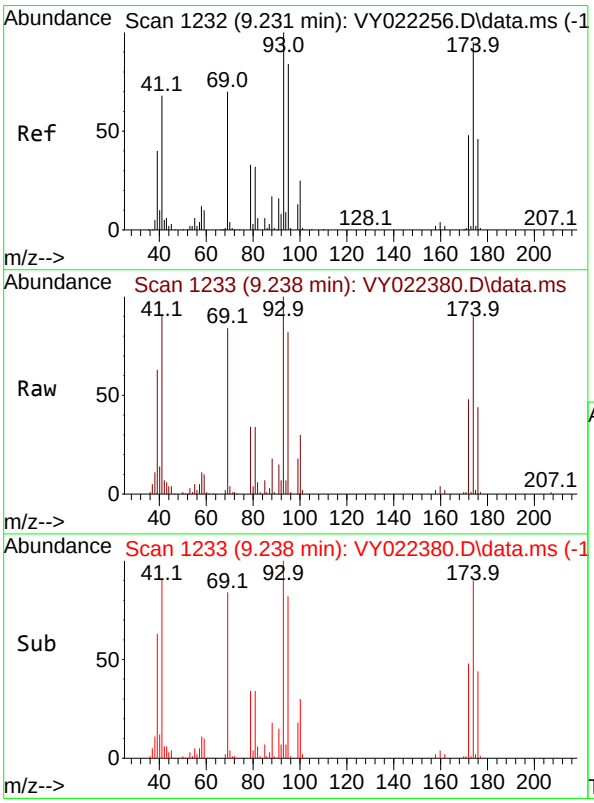
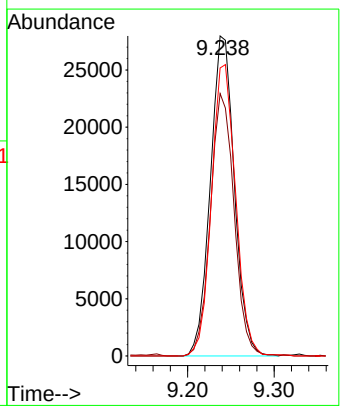


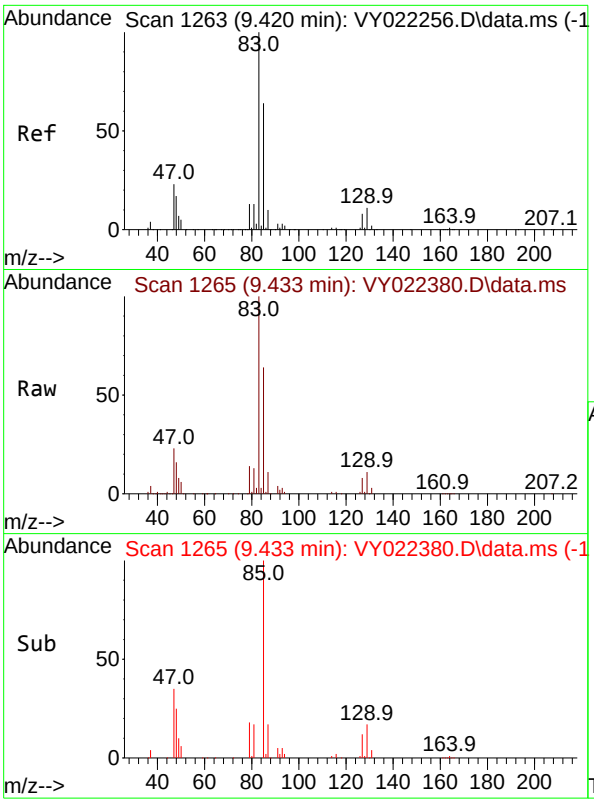




#46
Dibromomethane
Concen: 51.917 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 93 Resp: 53943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.9 | 65.2 | 97.8 |
| 174 | 91.5 | 74.3 | 111.5 |

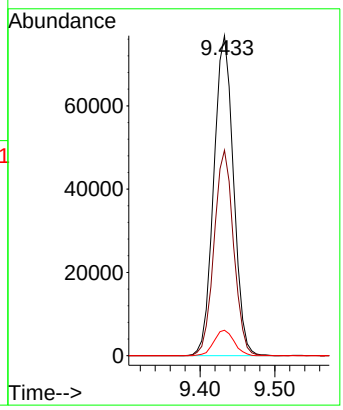





#47
Bromodichloromethane
Concen: 52.278 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 83 Resp: 14091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.2 | 51.1 | 76.7 |
| 127 | 8.0 | 6.6 | 10.0 |

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MSVOA_Y
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VSTDCCC050

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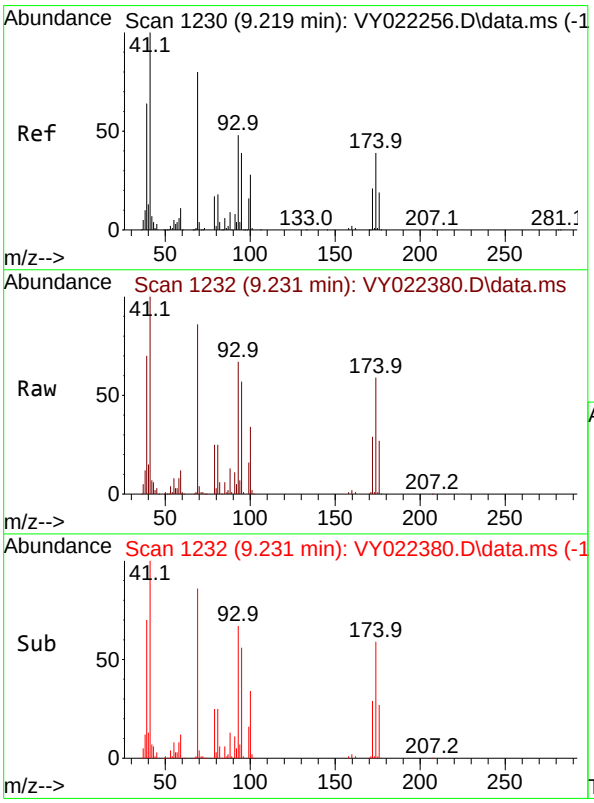
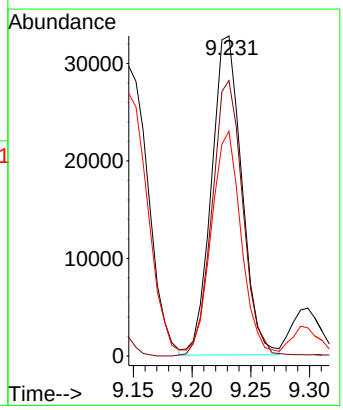
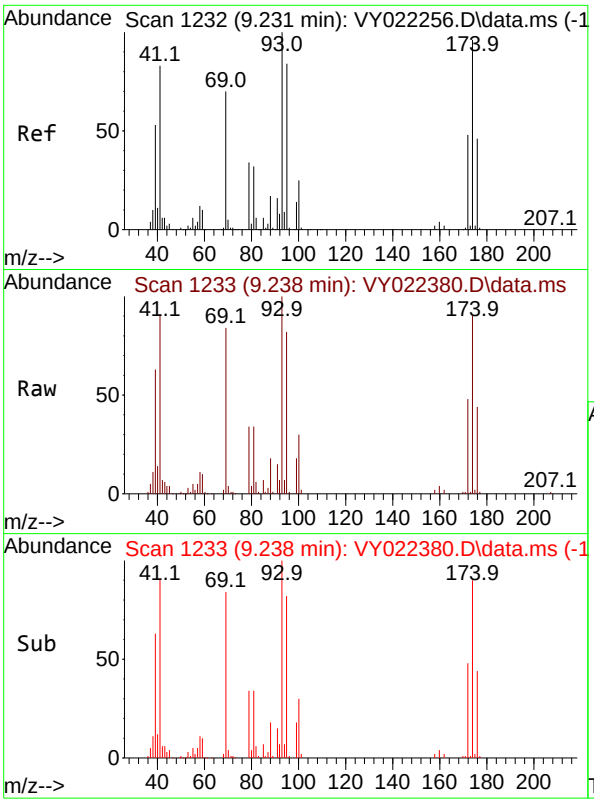



#48
Methyl methacrylate
Concen: 44.496 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 41 Resp: 58854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 87.6 | 63.5 | 95.3 |
| 39 | 66.6 | 50.8 | 76.2 |

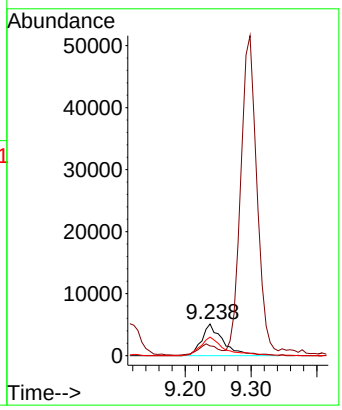





#49
1,4-Dioxane
Concen: 994.901 ug/l
RT: 9.238 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 88 Resp: 1167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.9 | 28.5 | 42.7 |
| 58 | 65.5 | 61.4 | 92.2 |

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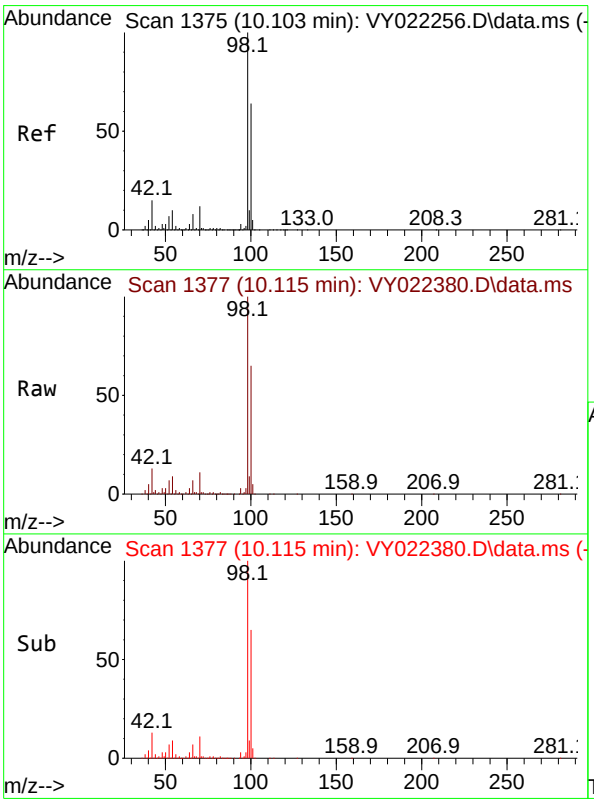
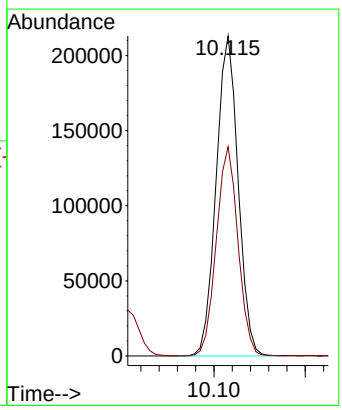
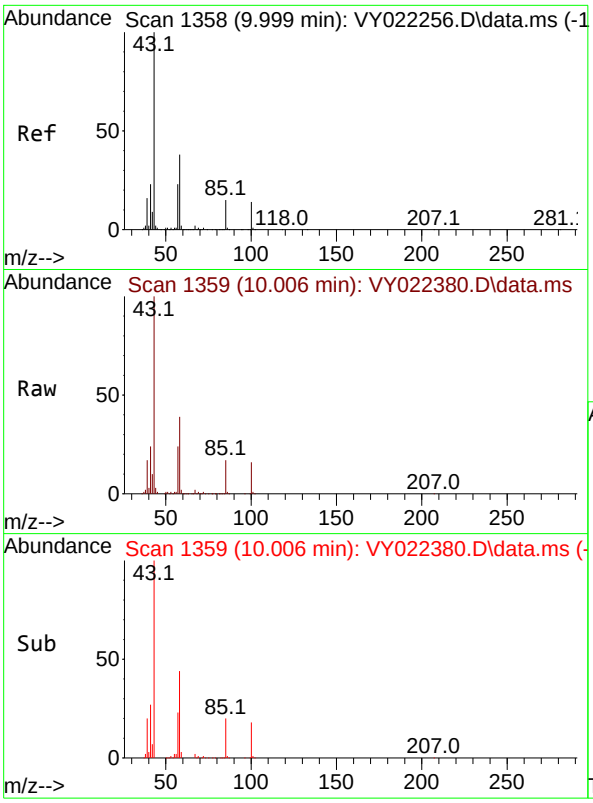



#50
Toluene-d8
Concen: 53.110 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 98 Resp: 355941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.5 | 51.8 | 77.8 |

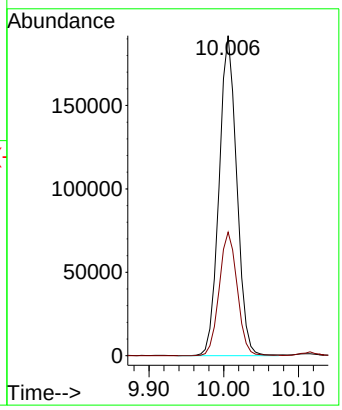





#51
4-Methyl-2-Pentanone
Concen: 227.107 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 43 Resp: 31517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.3 | 29.4 | 44.2 |




**Instrument :**
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VSTDCCC050

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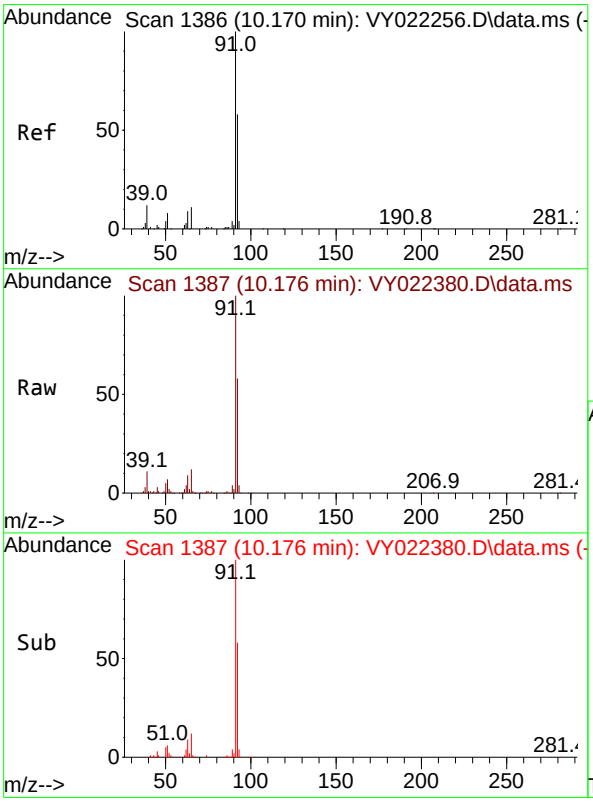
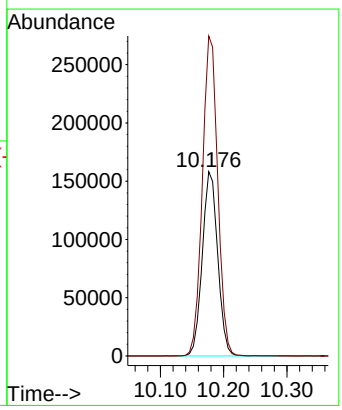
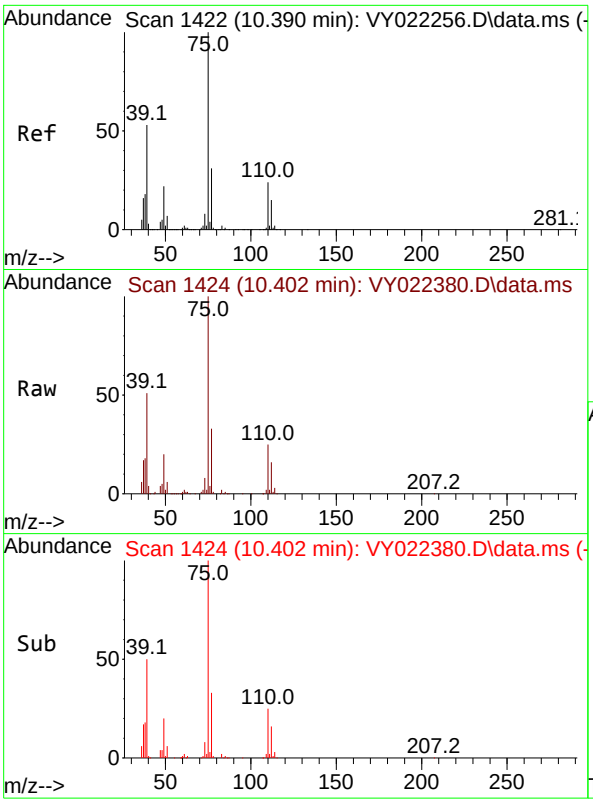



#52
Toluene
Concen: 53.002 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 92 Resp: 268178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.5 | 139.1 | 208.7 |

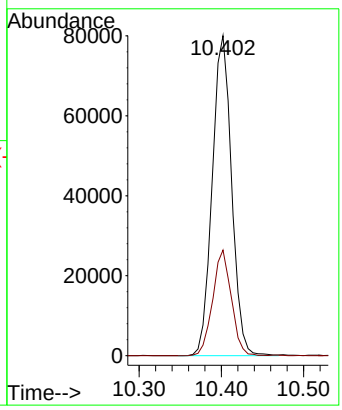





#53
t-1,3-Dichloropropene
Concen: 49.816 ug/l
RT: 10.402 min Scan# 14
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 75 Resp: 13104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.0 | 25.0 | 37.6 |

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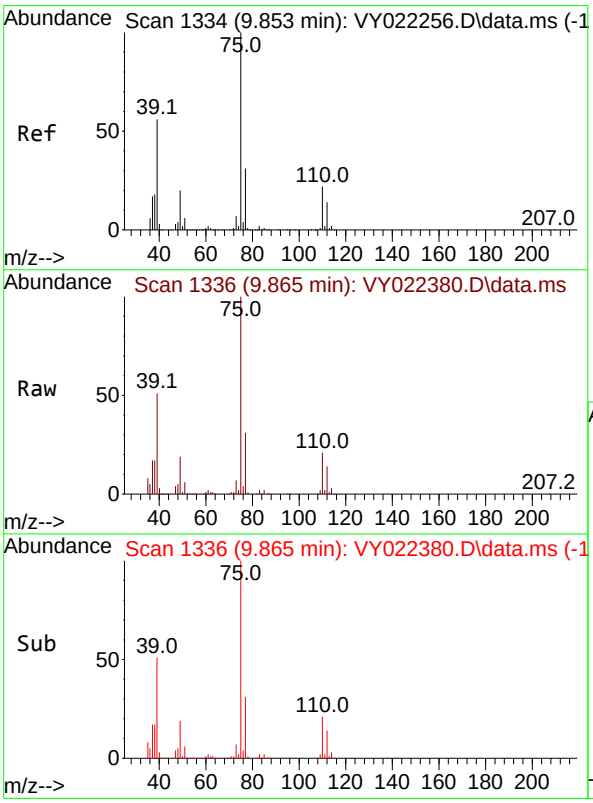
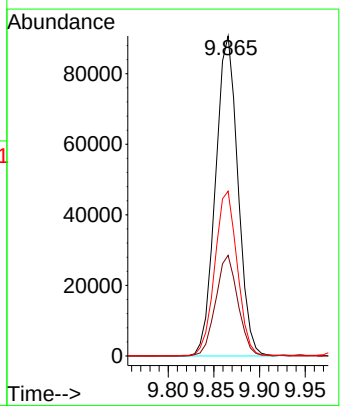
Supervised By :Mahesh Dadoda 05/23/2025

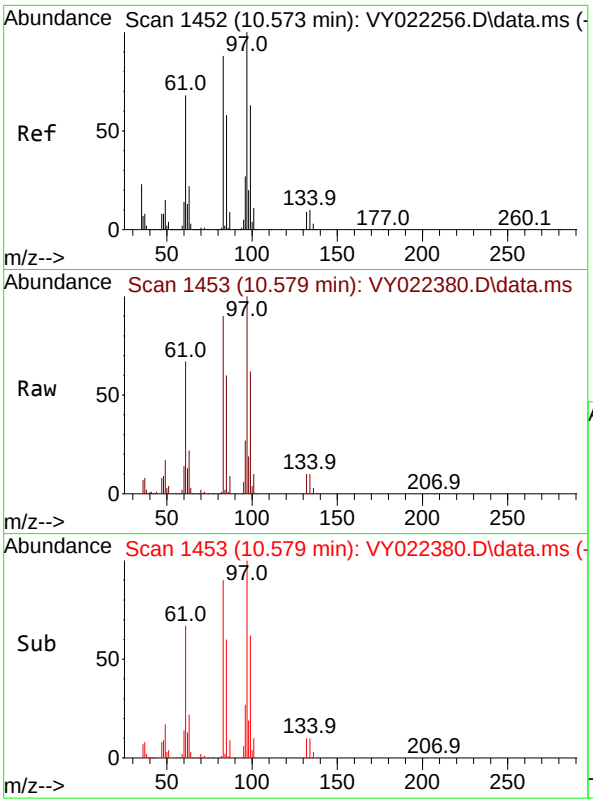



#54
cis-1,3-Dichloropropene
Concen: 51.367 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 75 Resp: 154811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.1 | 37.7 |
| 39 | 51.4 | 44.5 | 66.7 |

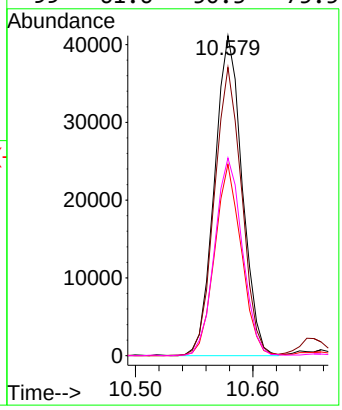





#55
1,1,2-Trichloroethane
Concen: 50.711 ug/l
RT: 10.579 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 97 Resp: 6747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.9 | 70.3 | 105.5 |
| 85 | 59.8 | 46.2 | 69.4 |
| 99 | 61.6 | 50.3 | 75.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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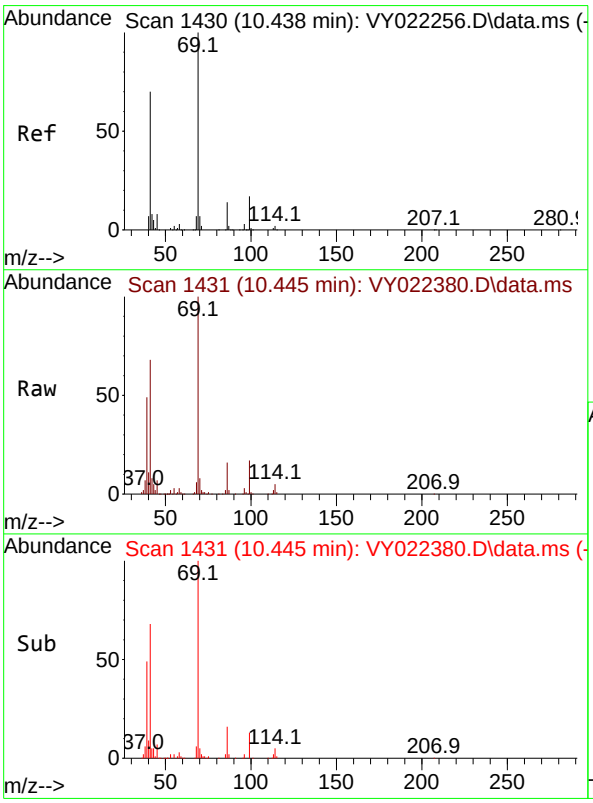
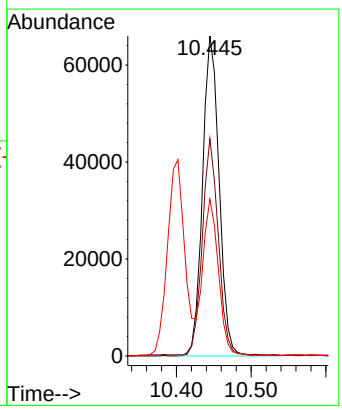
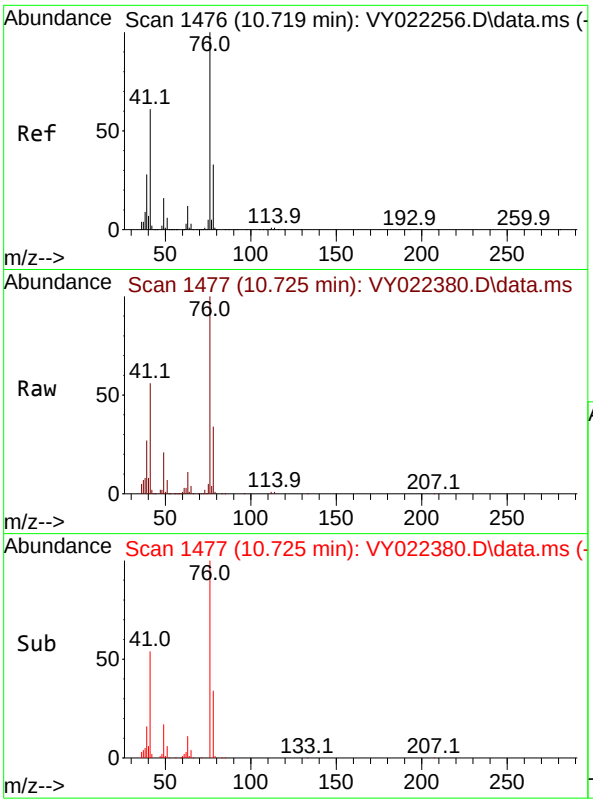



#56
Ethyl methacrylate
Concen: 49.163 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 69 Resp: 101892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 64.9 | 56.5 | 84.7 |
| 39 | 45.1 | 37.1 | 55.7 |

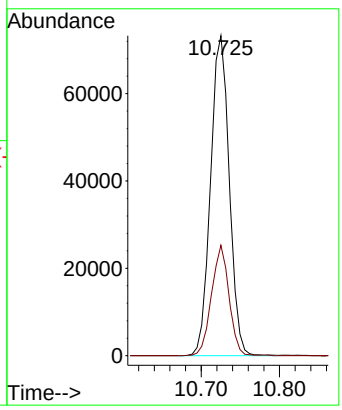





#57
1,3-Dichloropropane
Concen: 51.386 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 76 Resp: 12147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.3 | 25.8 | 38.8 |




**Instrument :**
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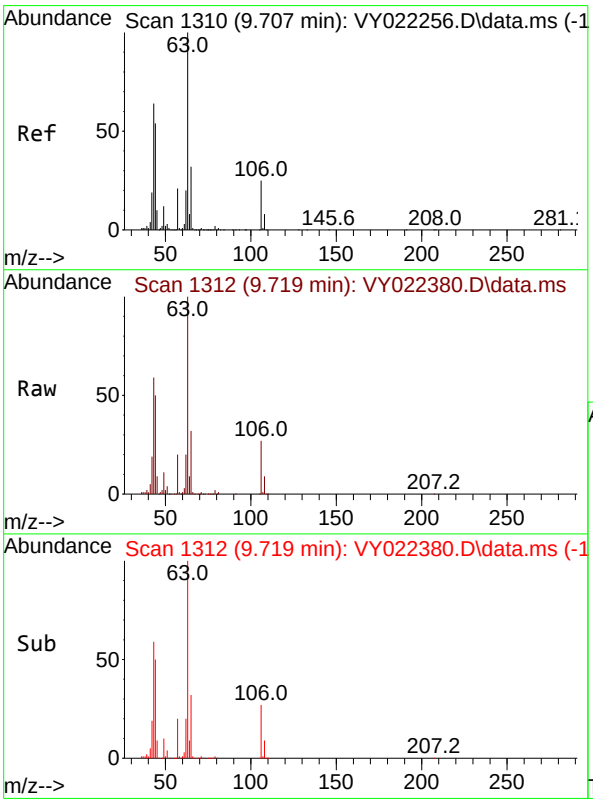
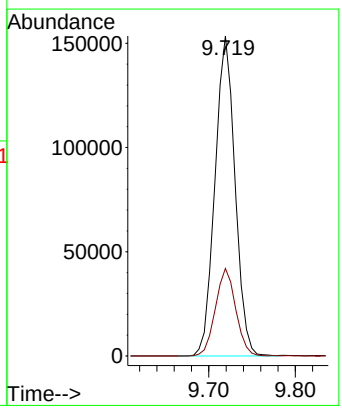
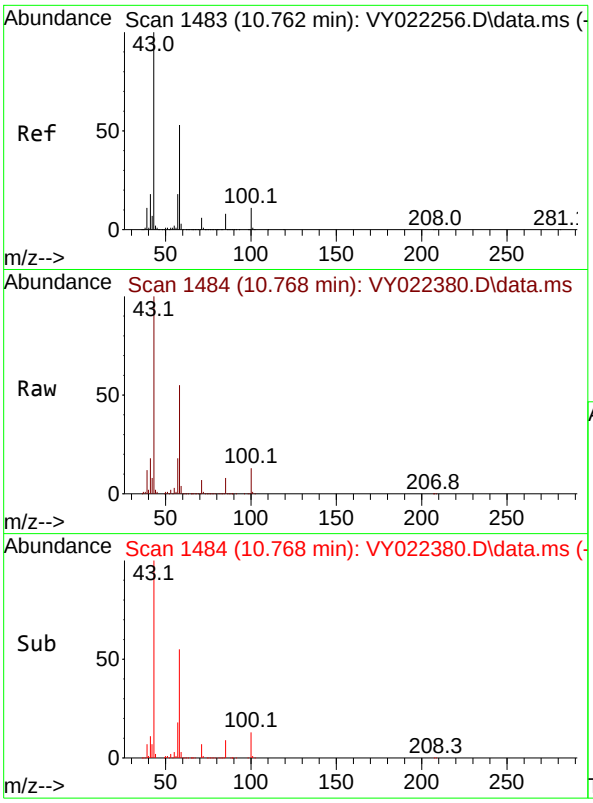



#58
2-Chloroethyl Vinyl ether
Concen: 265.693 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 63 Resp: 247160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.6 | 21.0 | 31.4 |






#59
2-Hexanone
Concen: 222.384 ug/l
RT: 10.768 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 43 Resp: 20692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.5 | 26.1 | 78.3 |

**Instrument :**
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VSTDCCC050

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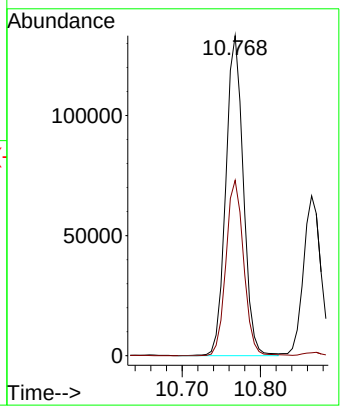
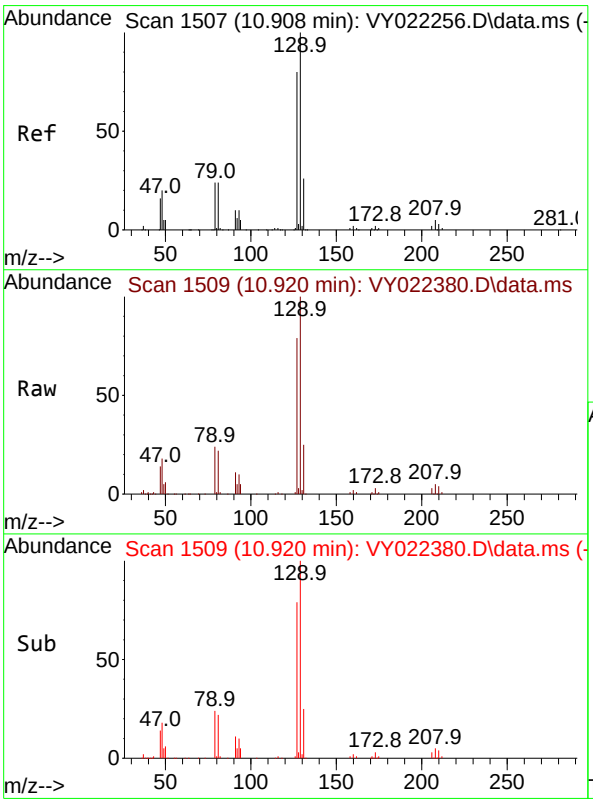
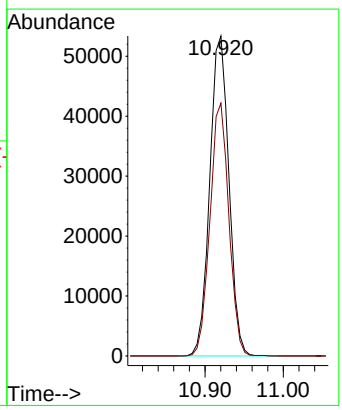


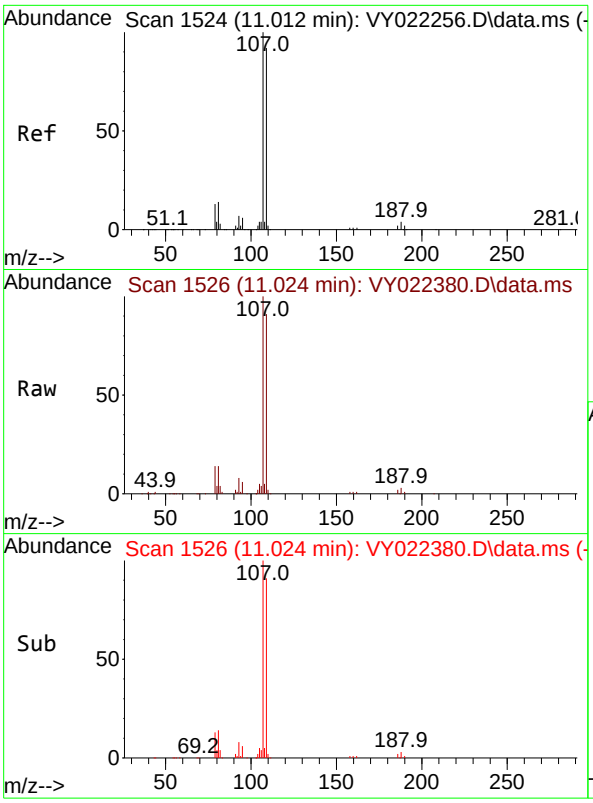




#60
Dibromochloromethane
Concen: 52.423 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:129 Resp: 90531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.1 | 38.6 | 115.7 |

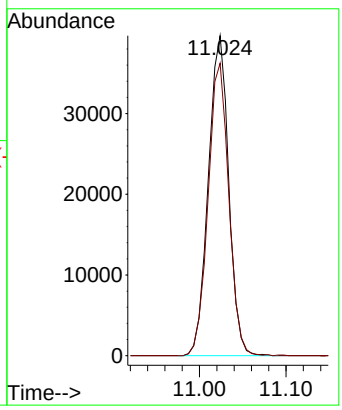





#61
1,2-Dibromoethane
Concen: 52.166 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:107 Resp: 6469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.8 | 74.6 | 111.8 |




**Instrument :**
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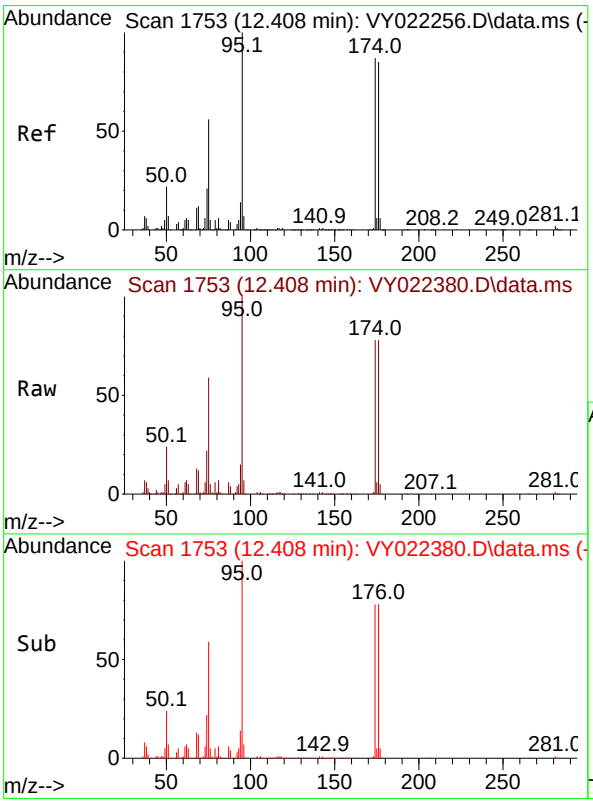
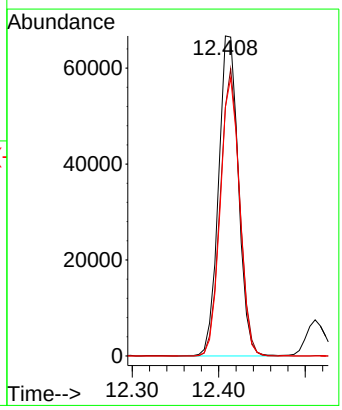
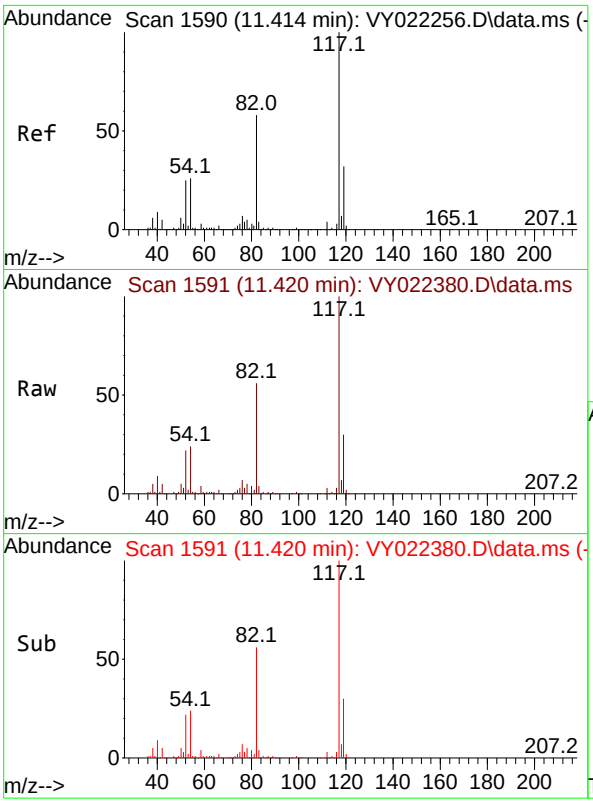



#62
4-Bromofluorobenzene
Concen: 49.898 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 95 Resp: 105997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 87.3 | 0.0 | 166.8 |
| 176 | 84.6 | 0.0 | 160.8 |

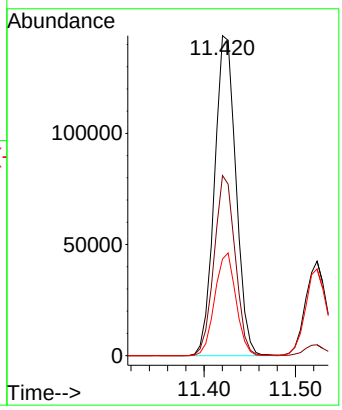





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:117 Resp: 23523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.3 | 46.6 | 70.0 |
| 119 | 30.2 | 25.8 | 38.6 |

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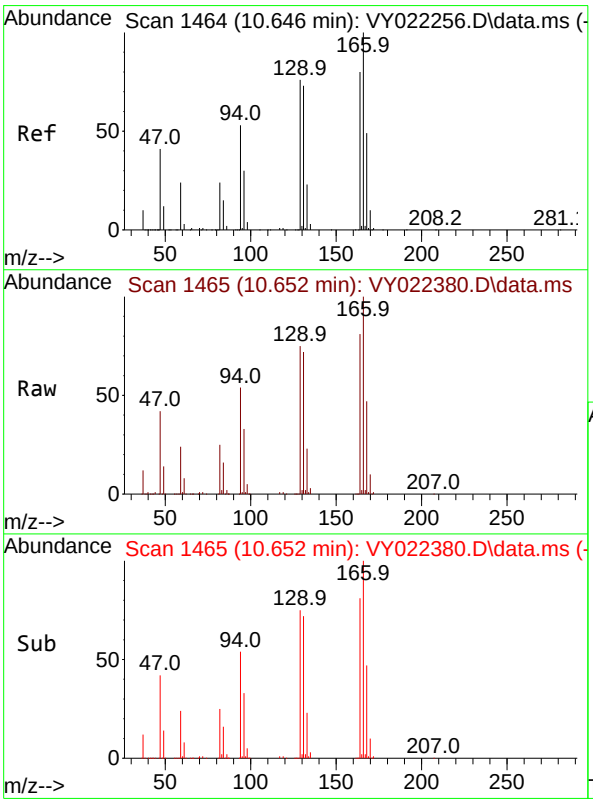
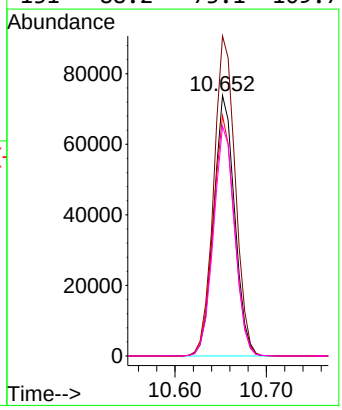
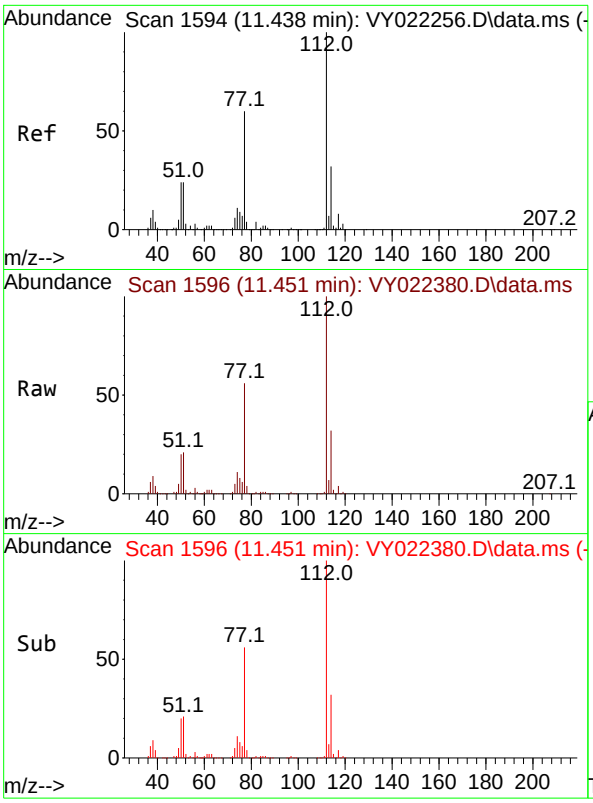



#64
Tetrachloroethene
Concen: 54.305 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:164 Resp: 118077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.8 | 100.4 | 150.6 |
| 129 | 92.2 | 76.4 | 114.6 |
| 131 | 88.2 | 73.1 | 109.7 |

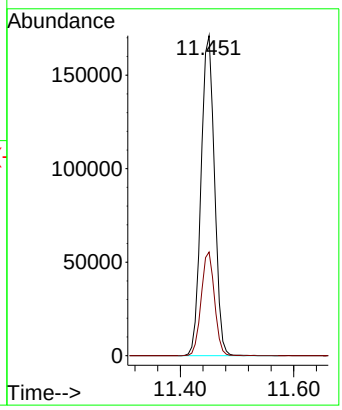





#65
Chlorobenzene
Concen: 52.931 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:112 Resp: 28091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.4 | 25.8 | 38.6 |

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VSTDCCC050

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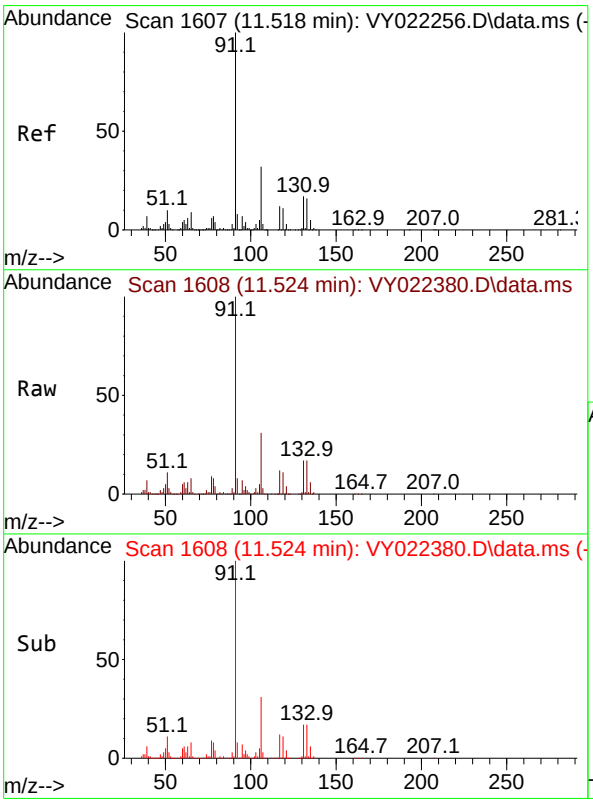
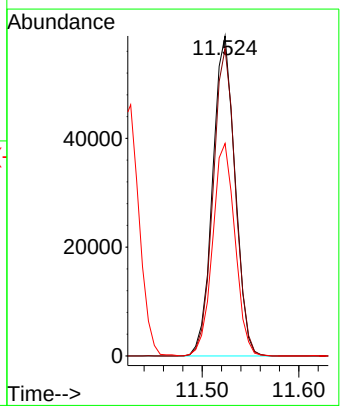
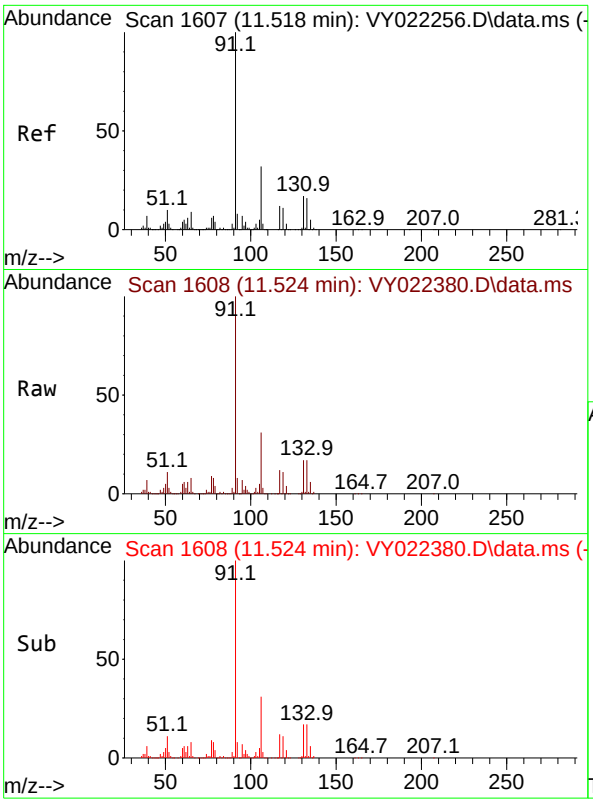



#66
1,1,1,2-Tetrachloroethane
Concen: 51.774 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:131 Resp: 94462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.6 | 47.3 | 141.9 |
| 119 | 66.4 | 33.1 | 99.2 |

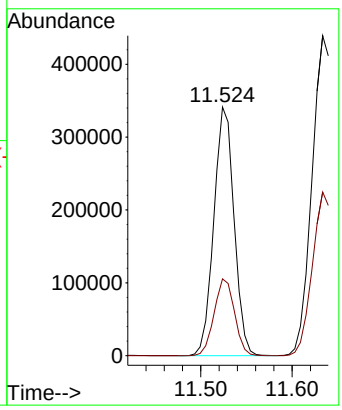





#67
Ethyl Benzene
Concen: 52.876 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 91 Resp: 52555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.9 | 25.4 | 38.0 |




**Instrument :**
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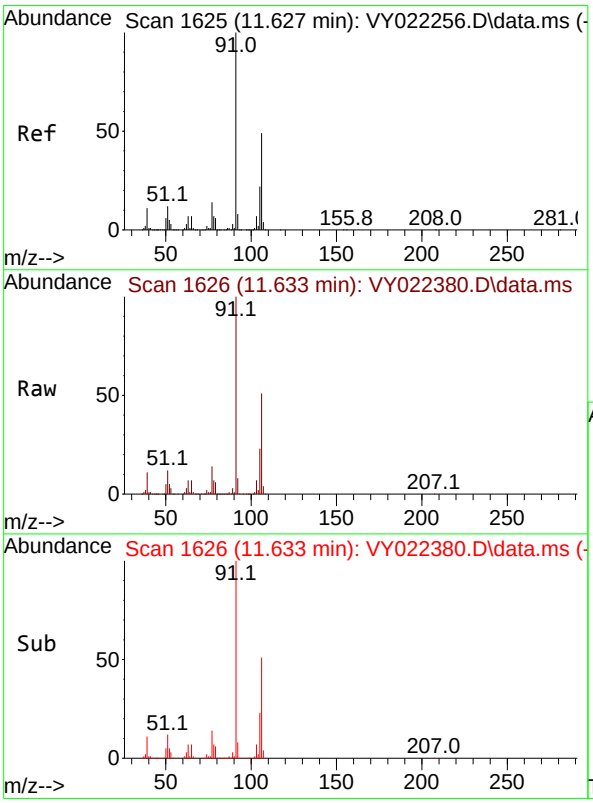
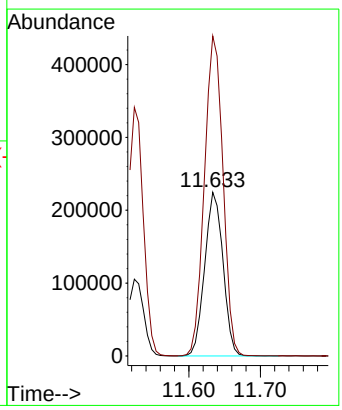
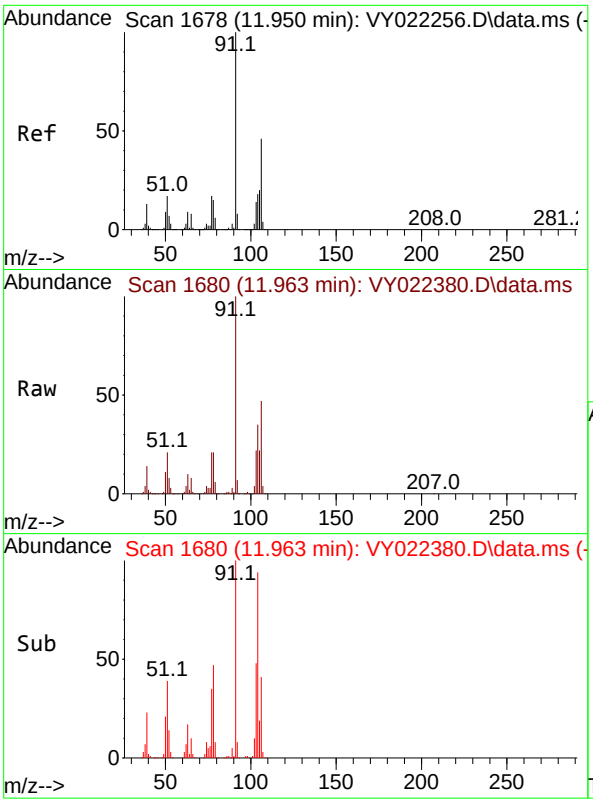



#68
m/p-Xylenes
Concen: 106.617 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:106 Resp: 399310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 198.2 | 163.0 | 244.4 |

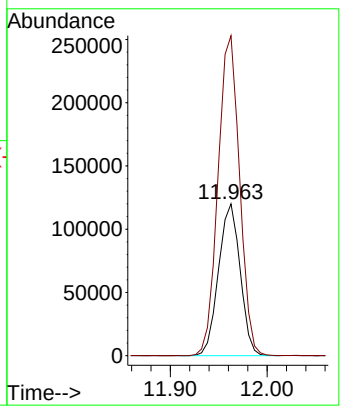





#69
o-Xylene
Concen: 52.518 ug/l
RT: 11.963 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:106 Resp: 18609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.9 | 108.3 | 324.8 |




**Instrument :**
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VSTDCCC050

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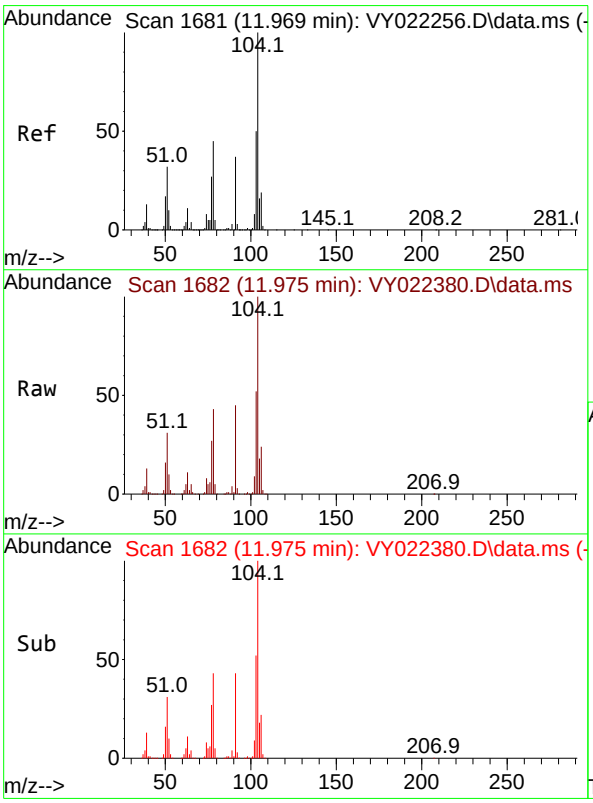
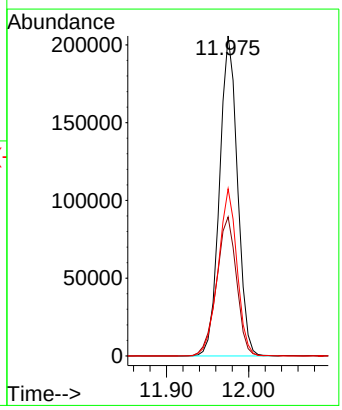
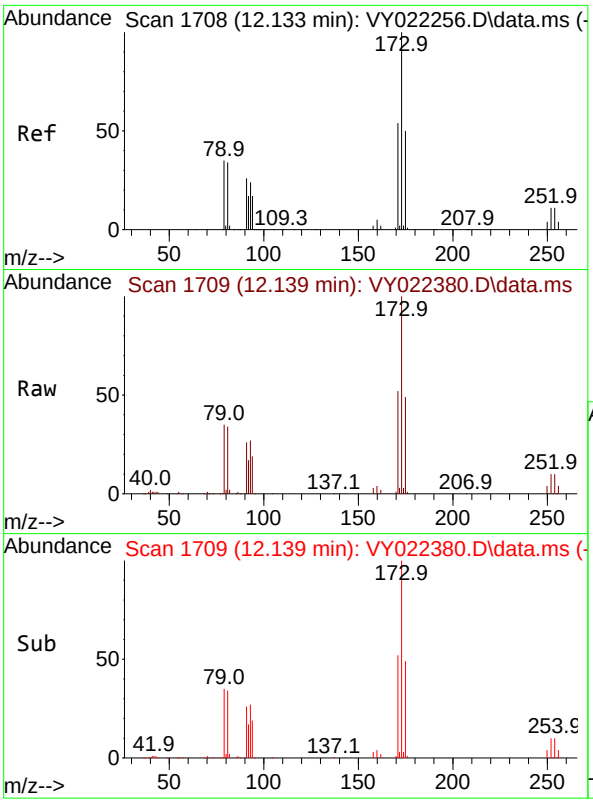



#70
Styrene
Concen: 52.163 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:104 Resp: 311800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.4 | 40.9 | 61.3 |
| 103 | 55.0 | 43.7 | 65.5 |

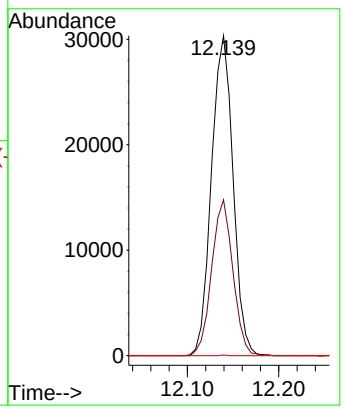





#71
Bromoform
Concen: 50.521 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:173 Resp: 4975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.9 | 24.7 | 74.1 |
| 254 | 0.1 | 0.0 | 0.0 |




**Instrument :**
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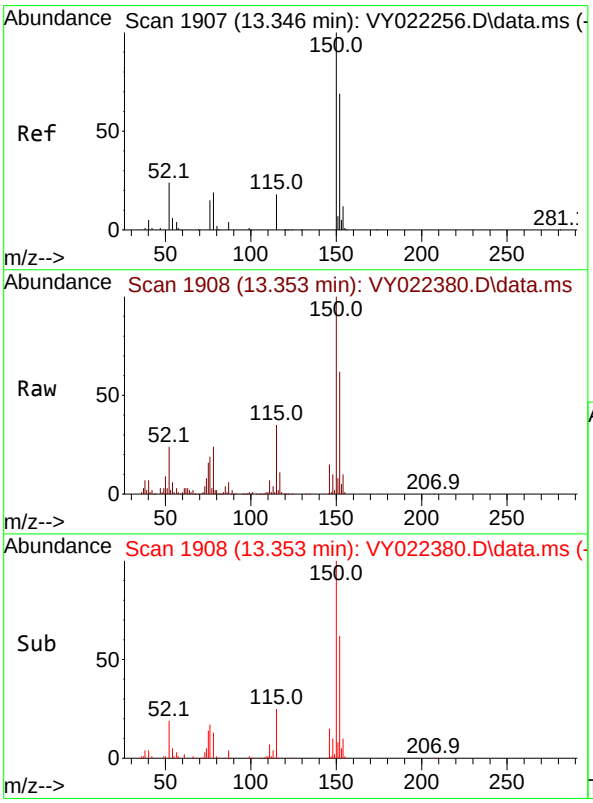
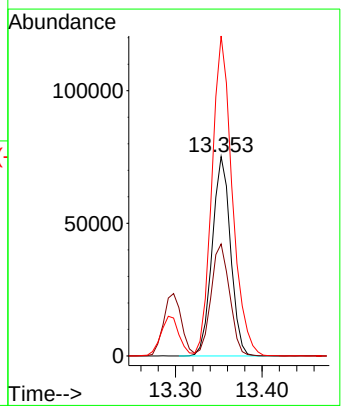
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

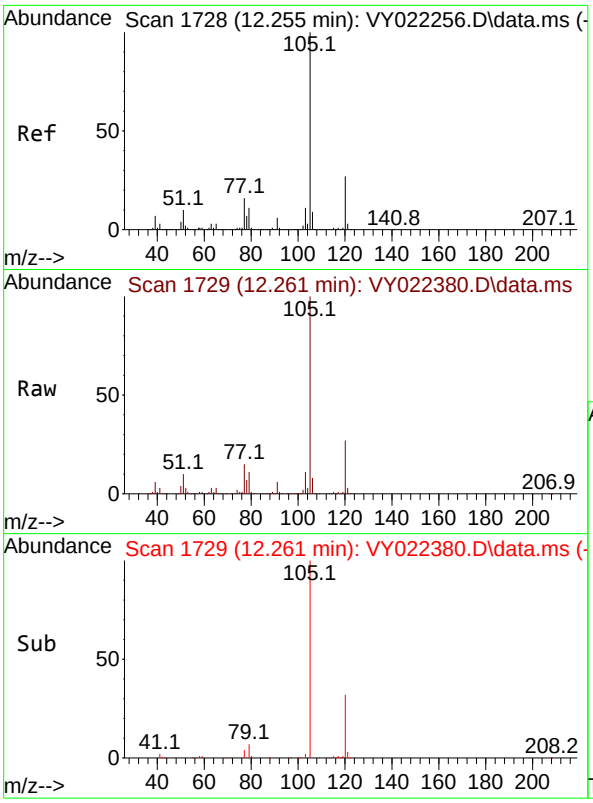



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:152 Resp: 110586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.1 | 29.4 | 88.2 |
| 150 | 177.7 | 0.0 | 353.8 |

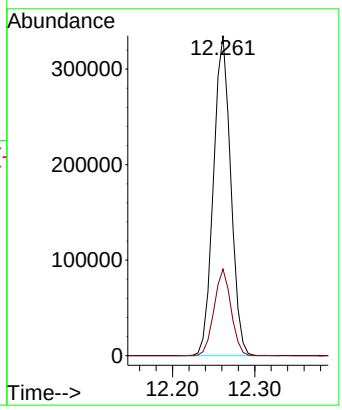





#73
Isopropylbenzene
Concen: 53.502 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:105 Resp: 49016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.5 | 13.2 | 39.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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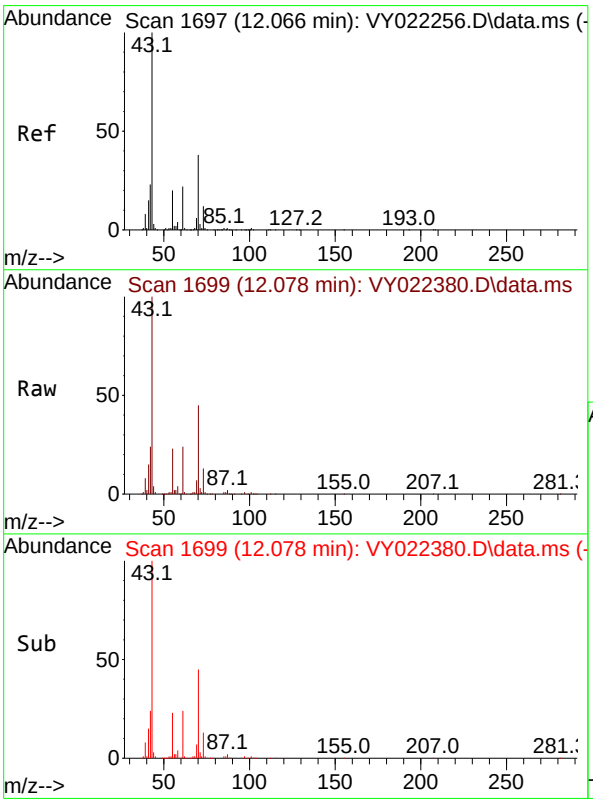
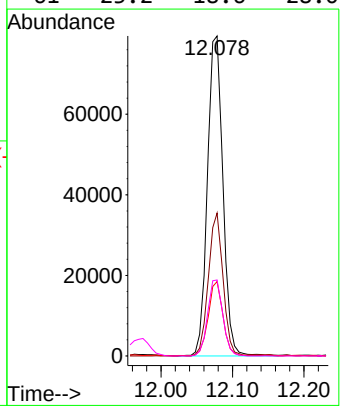
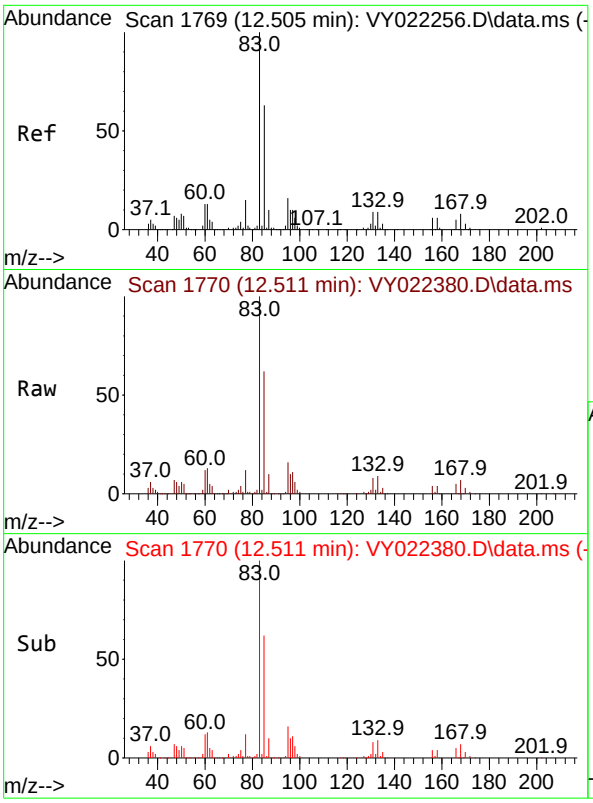



#74
N-amyl acetate
Concen: 45.682 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 43 Resp: 119696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.2 | 31.4 | 47.0 |
| 55 | 22.3 | 17.0 | 25.6 |
| 61 | 23.2 | 18.6 | 28.0 |






#75
1,1,2,2-Tetrachloroethane
Concen: 51.561 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 83 Resp: 7264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.9 | 14.7 |
| 85 | 63.4 | 32.0 | 96.0 |

**Instrument :**
MSVOA_Y
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VSTDCCC050

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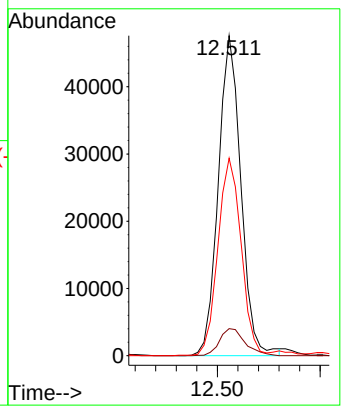
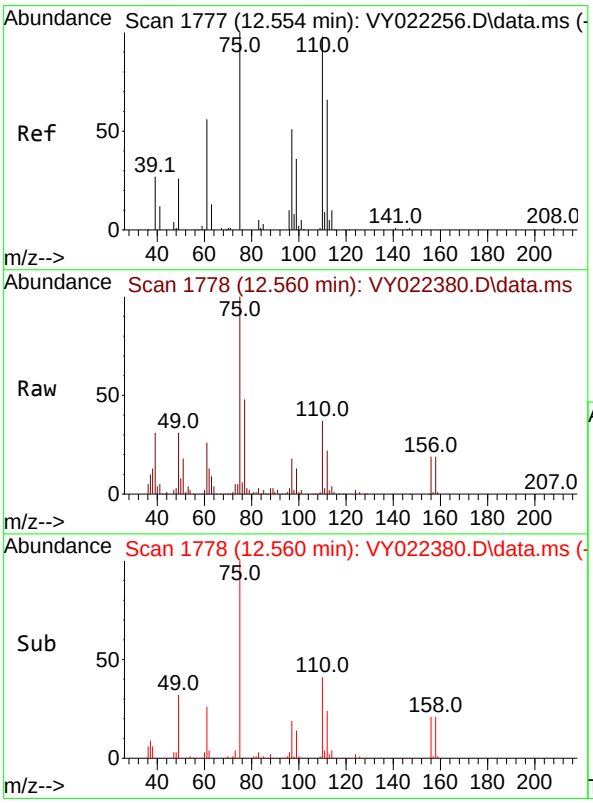
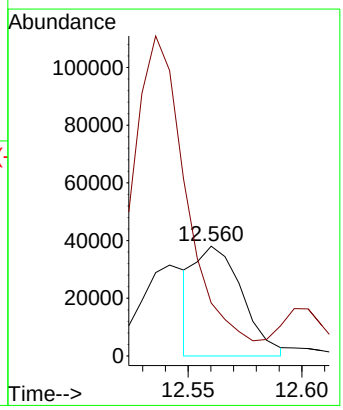


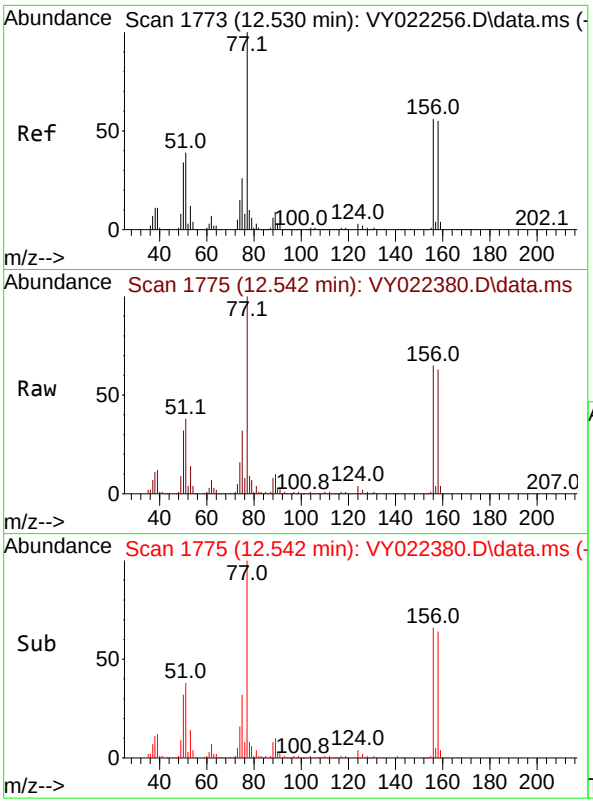




#76
1,2,3-Trichloropropane
Concen: 49.223 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 75 Resp: 55147

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

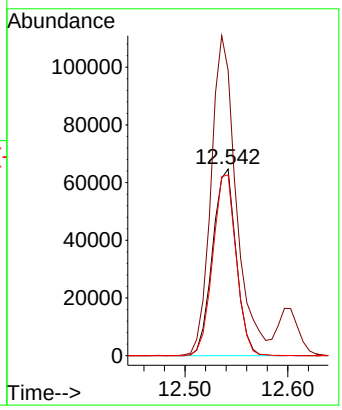





#77
Bromobenzene
Concen: 52.574 ug/l
RT: 12.542 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:156 Resp: 10287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 183.0 | 94.5 | 283.6 |
| 158 | 96.4 | 48.4 | 145.3 |




**Instrument :**
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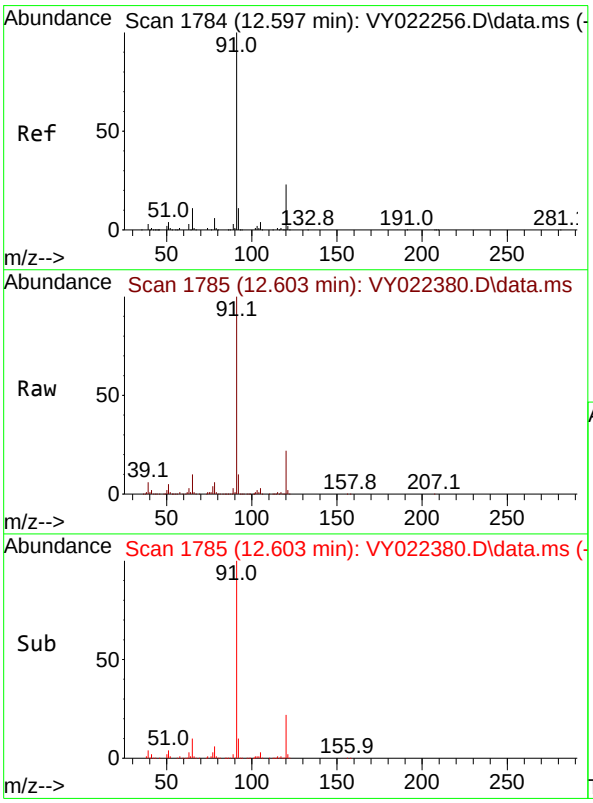
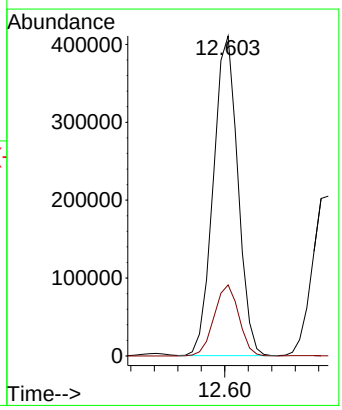
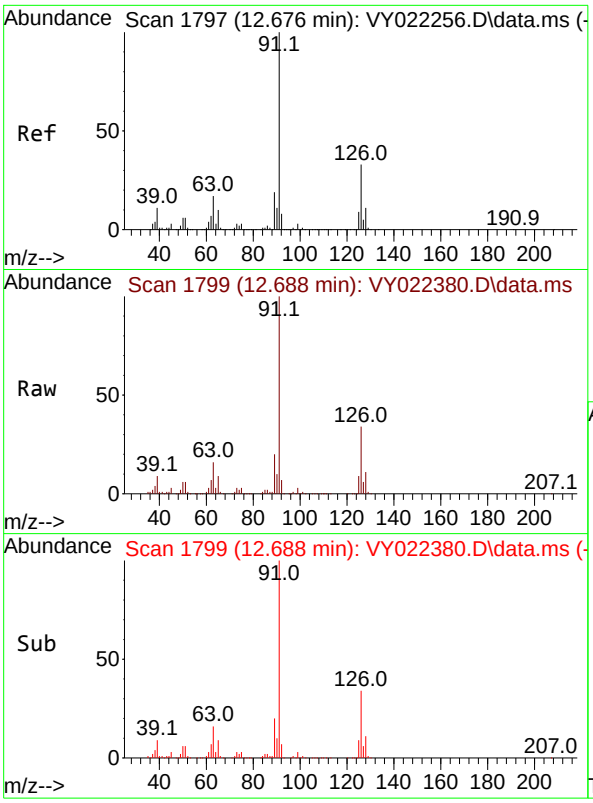



#78
n-propylbenzene
Concen: 53.885 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 91 Resp: 595455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.4 | 11.1 | 33.3 |

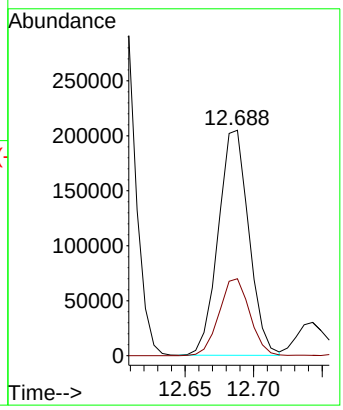





#79
2-Chlorotoluene
Concen: 52.461 ug/l
RT: 12.688 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 91 Resp: 31857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.4 | 16.8 | 50.4 |




**Instrument :**
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VSTDCCC050

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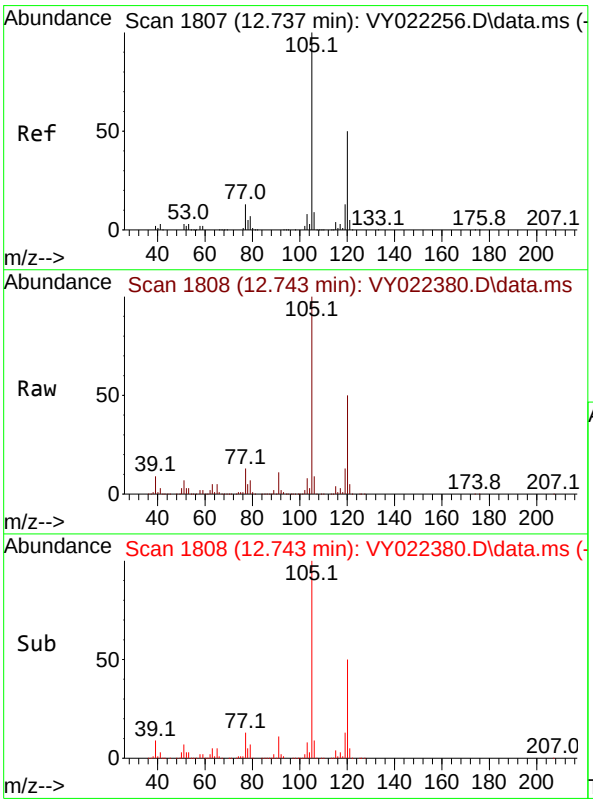
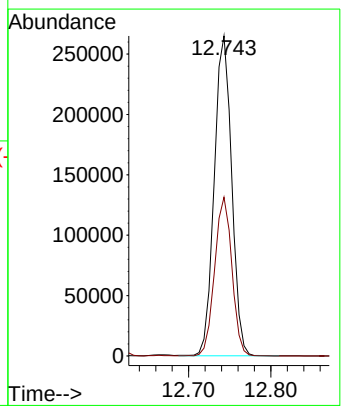
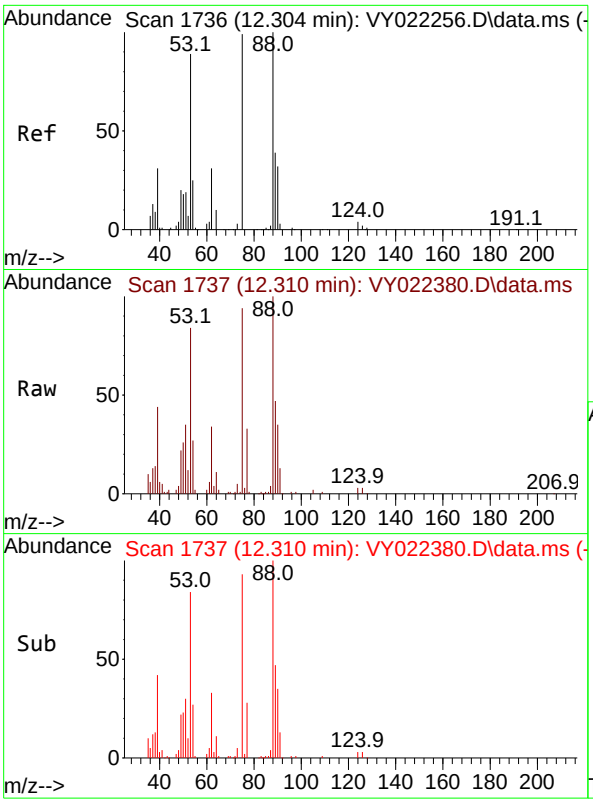



#80
1,3,5-Trimethylbenzene
Concen: 52.837 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:105 Resp: 390755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.1 | 24.2 | 72.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 46.827 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 75 Resp: 2589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 90.0 | 75.8 | 113.8 |
| 89 | 46.4 | 36.2 | 54.2 |

**Instrument :**
MSVOA_Y
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VSTDCCC050

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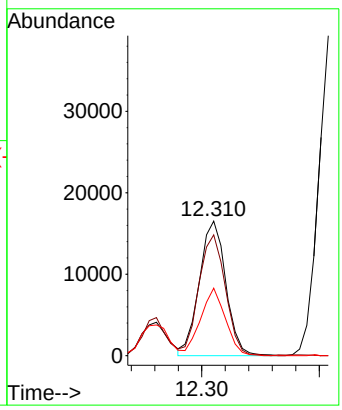
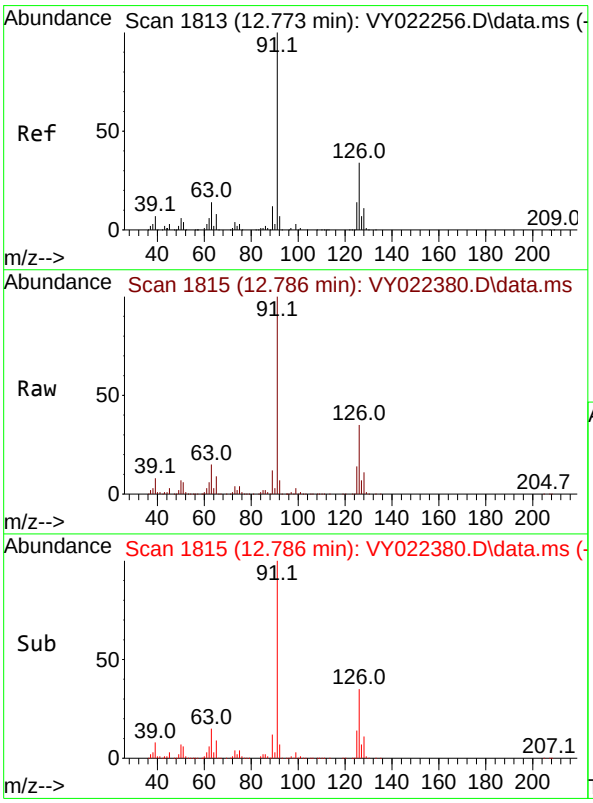
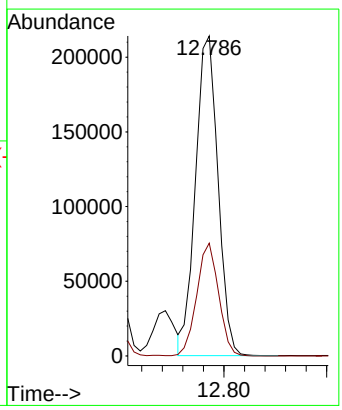


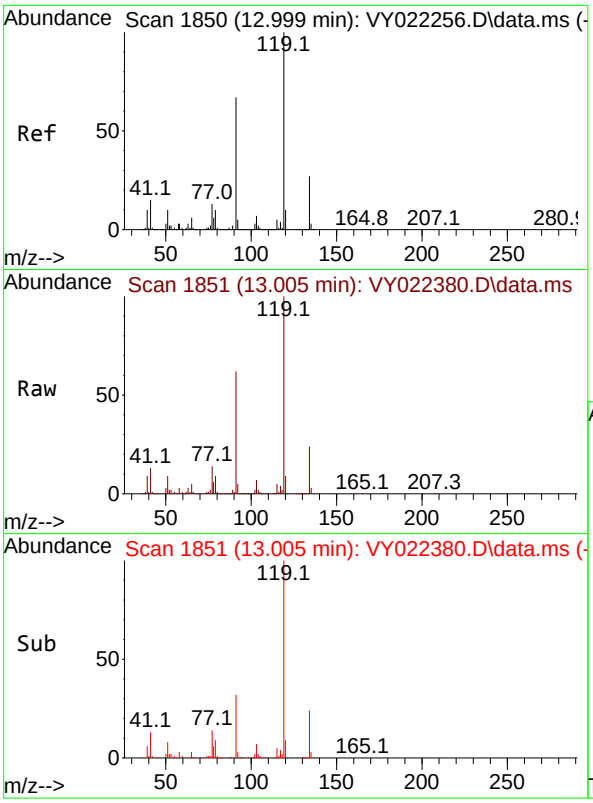




#82
4-Chlorotoluene
Concen: 52.070 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.012 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 91 Resp: 325243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.4 | 16.8 | 50.4 |

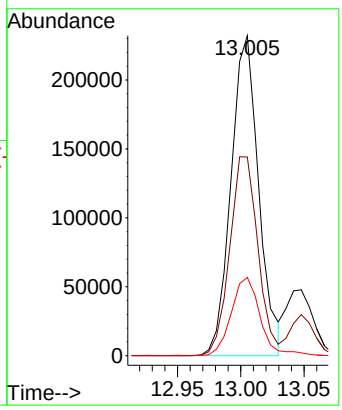





#83
tert-Butylbenzene
Concen: 53.844 ug/l
RT: 13.005 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:119 Resp: 35392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.2 | 32.8 | 98.3 |
| 134 | 25.5 | 12.9 | 38.6 |

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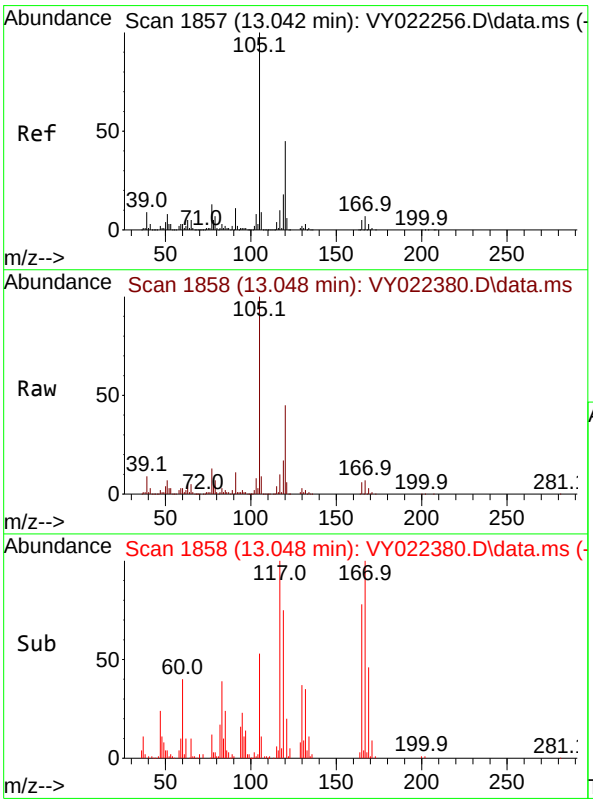
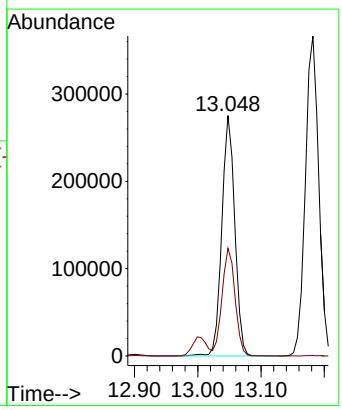
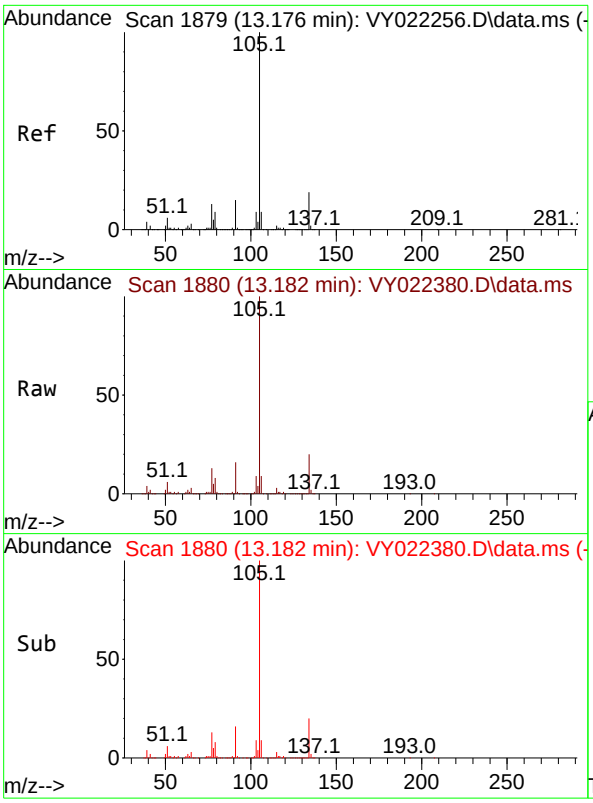



#84
1,2,4-Trimethylbenzene
Concen: 53.109 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:105 Resp: 389894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.8 | 22.3 | 66.9 |






#85
sec-Butylbenzene
Concen: 54.800 ug/l
RT: 13.182 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:105 Resp: 53470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.8 | 29.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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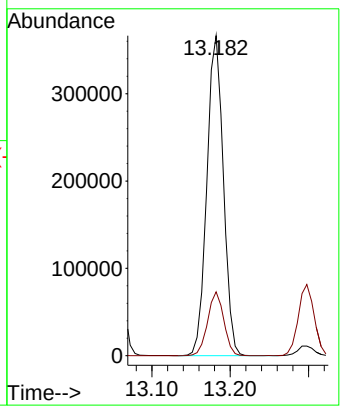
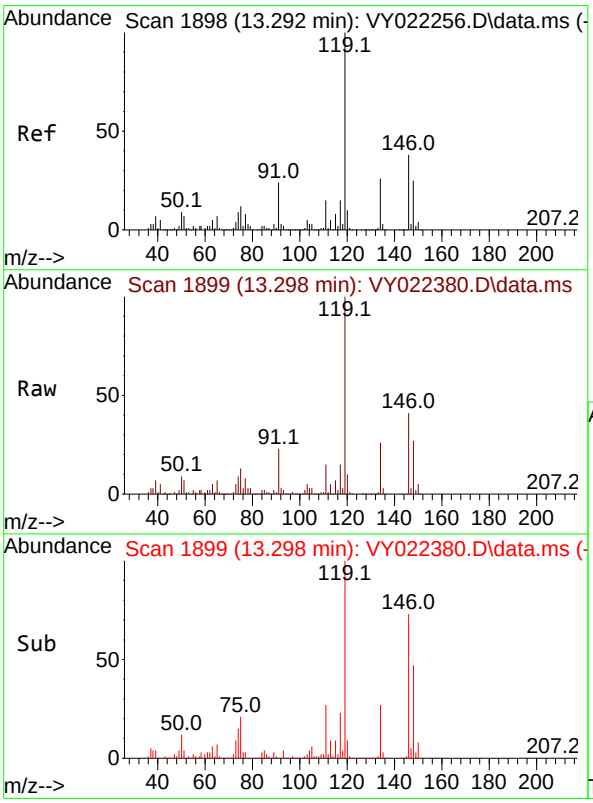
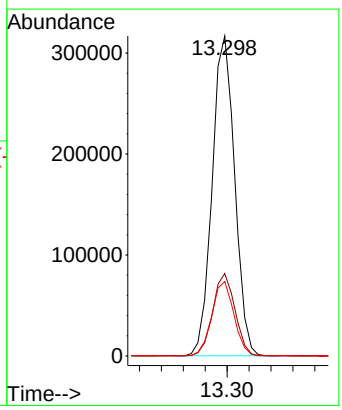


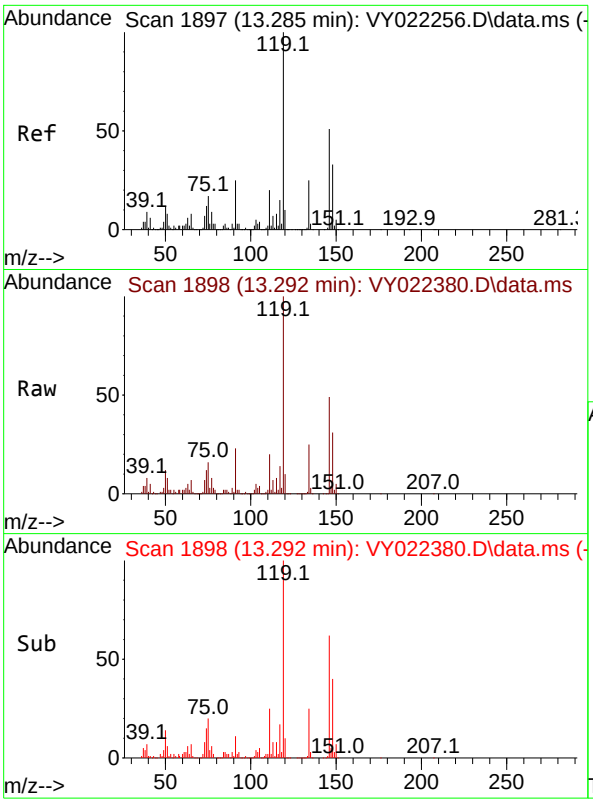




#86
p-Isopropyltoluene
Concen: 54.938 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:119 Resp: 450850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.5 | 12.9 | 38.6 |
| 91 | 22.9 | 12.1 | 36.3 |

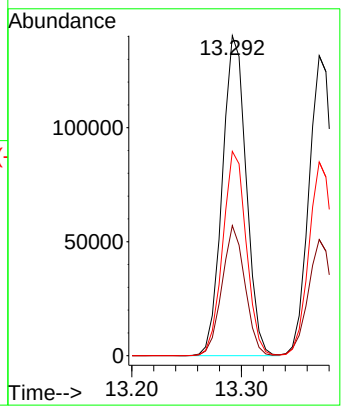





#87
1,3-Dichlorobenzene
Concen: 53.142 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:146 Resp: 21227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.9 | 59.7 |
| 148 | 63.0 | 31.9 | 95.7 |

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MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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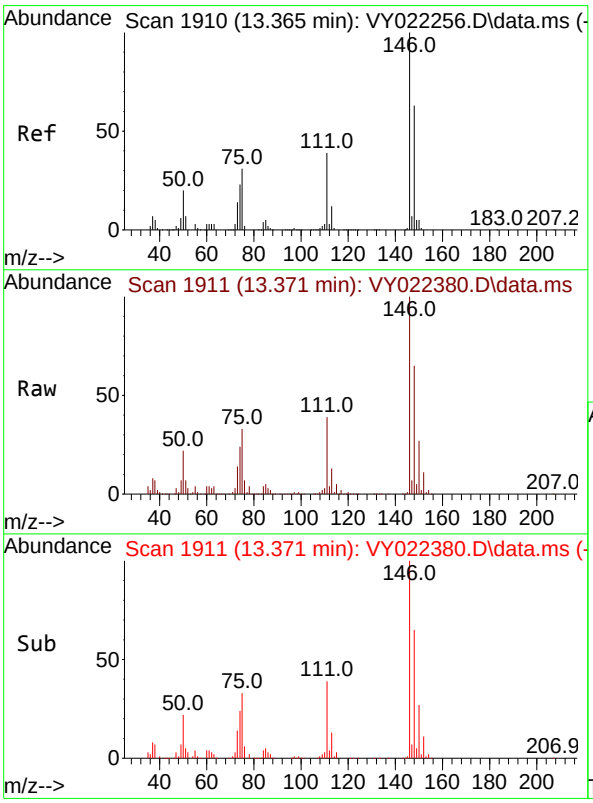
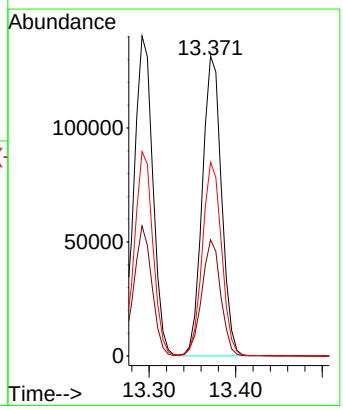
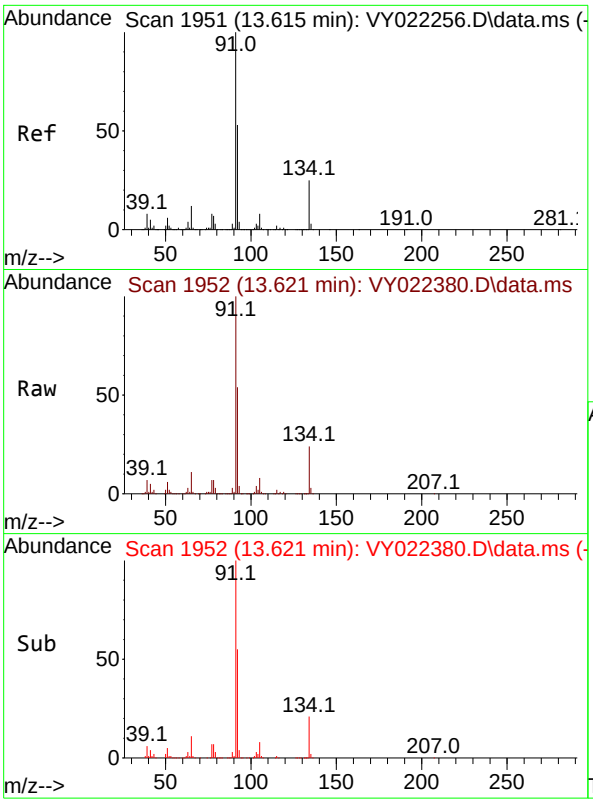



#88
1,4-Dichlorobenzene
Concen: 52.704 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:146 Resp: 202502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.3 | 20.0 | 59.9 |
| 148 | 64.7 | 32.1 | 96.5 |

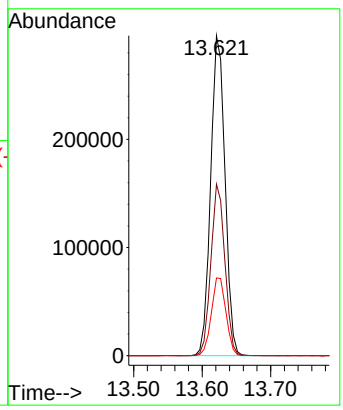





#89
n-Butylbenzene
Concen: 55.365 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 91 Resp: 42984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.3 | 26.3 | 78.9 |
| 134 | 24.8 | 12.4 | 37.4 |

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VSTDCCC050

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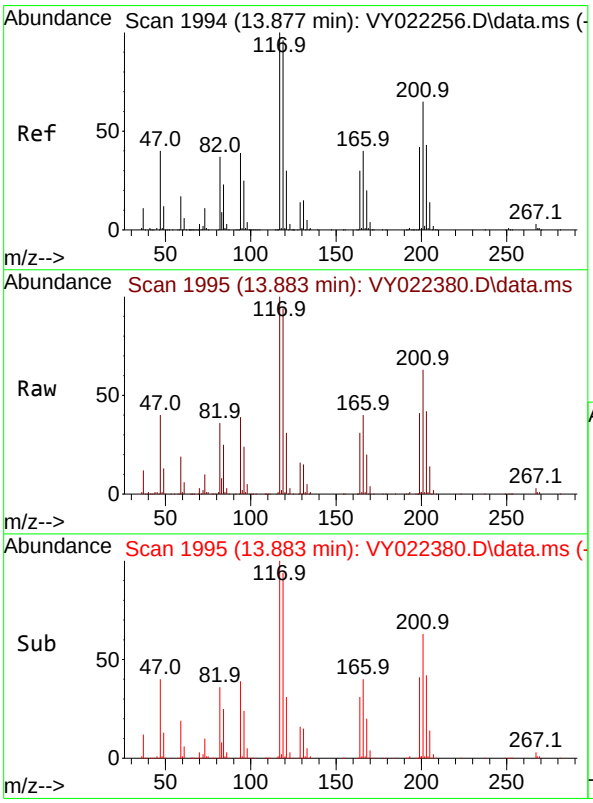
**APPROVED**

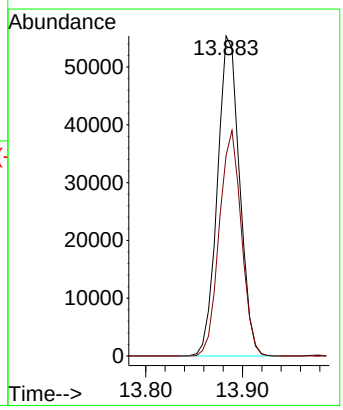
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

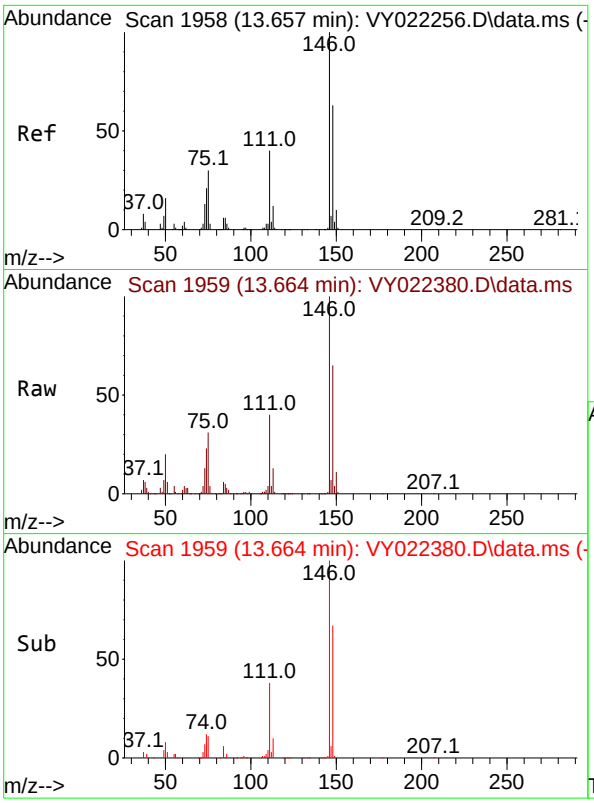



#90
Hexachloroethane
Concen: 53.097 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:117 Resp: 87959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 70.1 | 35.2 | 105.6 |

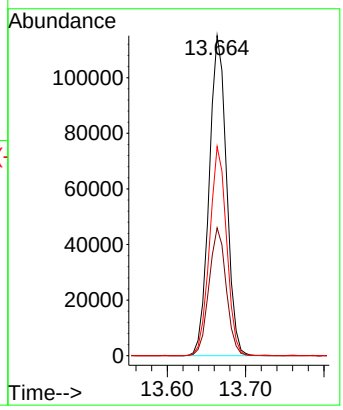





#91
1,2-Dichlorobenzene
Concen: 52.741 ug/l
RT: 13.664 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:146 Resp: 17696

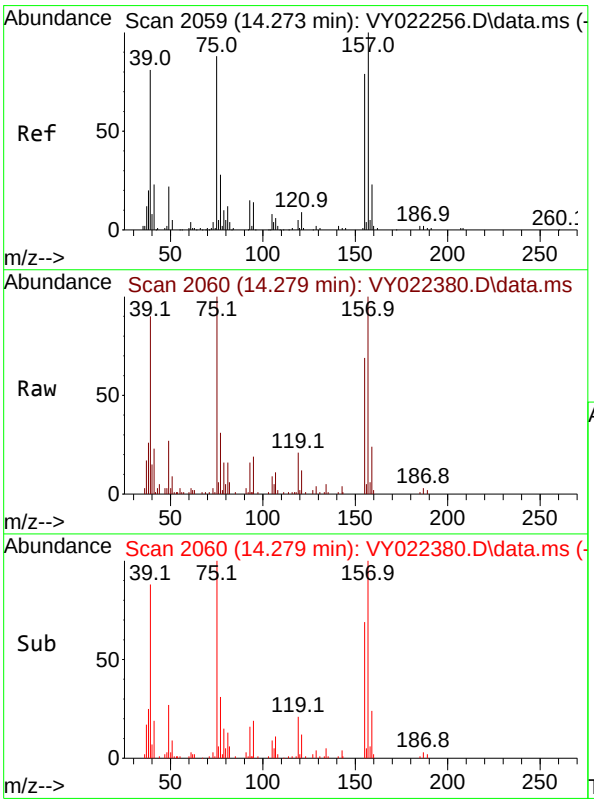
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.5 | 20.5 | 61.5 |
| 148 | 64.0 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

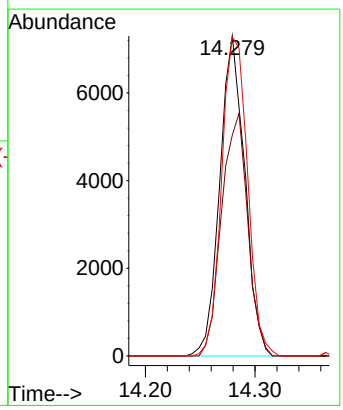
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

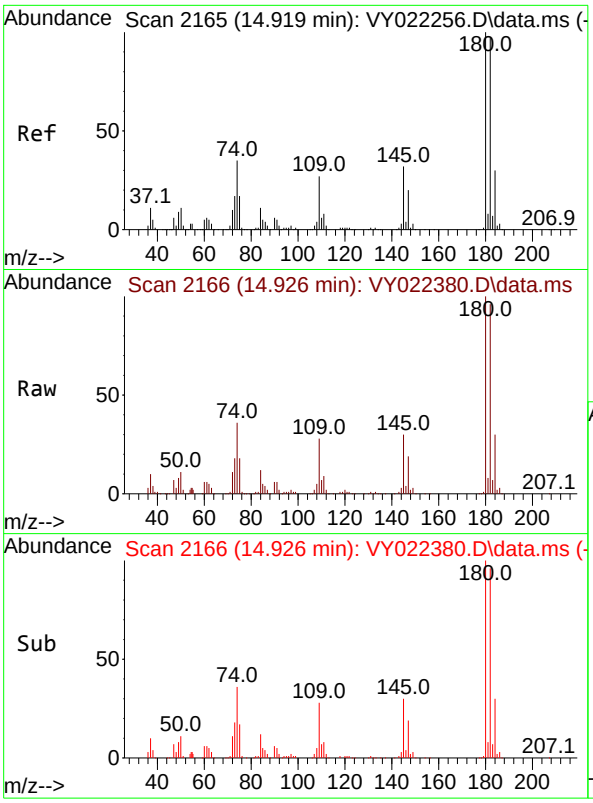



#92
1,2-Dibromo-3-Chloropropane
Concen: 50.863 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion: 75 Resp: 11556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 78.9 | 43.4 | 130.1 |
| 157 | 103.4 | 54.6 | 163.9 |






#93
1,2,4-Trichlorobenzene
Concen: 53.492 ug/l
RT: 14.926 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

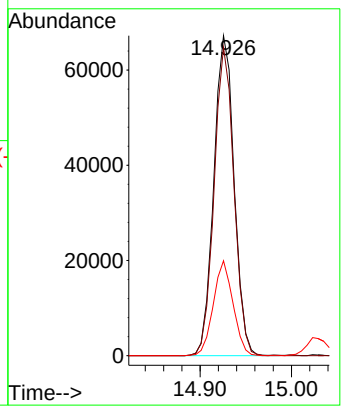
Tgt Ion:180 Resp: 10367

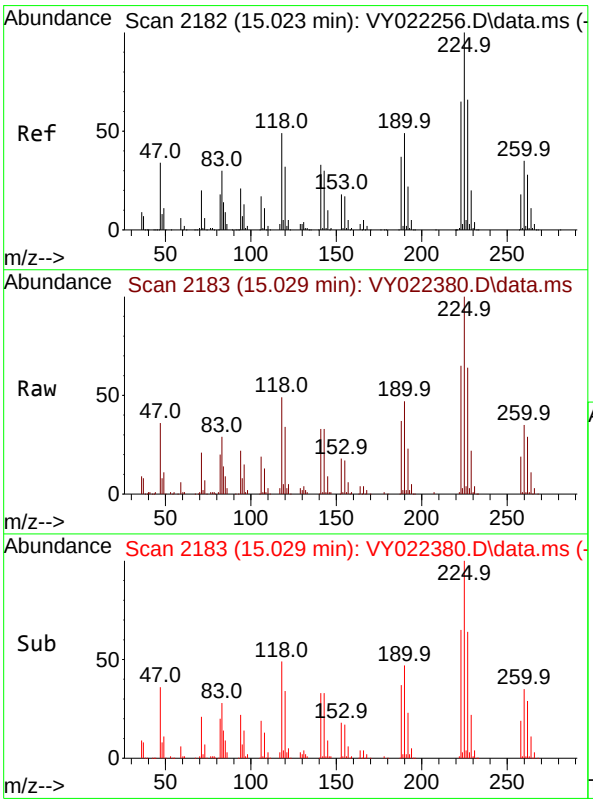
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.2 | 48.0 | 144.0 |
| 145 | 28.8 | 15.0 | 45.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

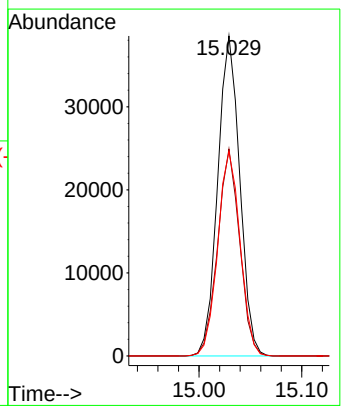


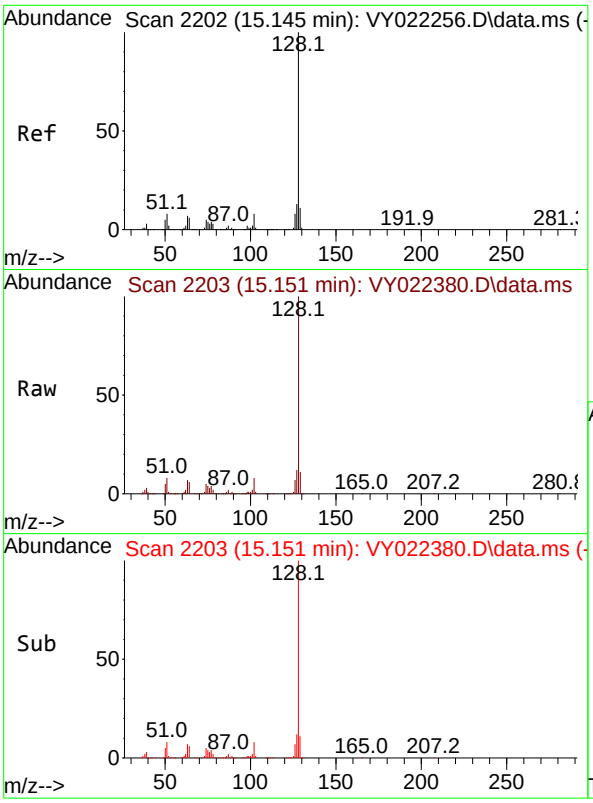




#94
Hexachlorobutadiene
Concen: 52.980 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:225 Resp: 57263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.6 | 31.5 | 94.5 |
| 227 | 64.9 | 32.1 | 96.3 |

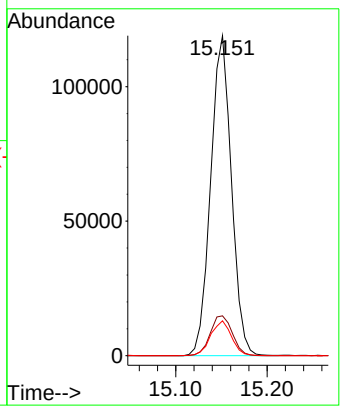





#95
Naphthalene
Concen: 50.990 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:128 Resp: 18753

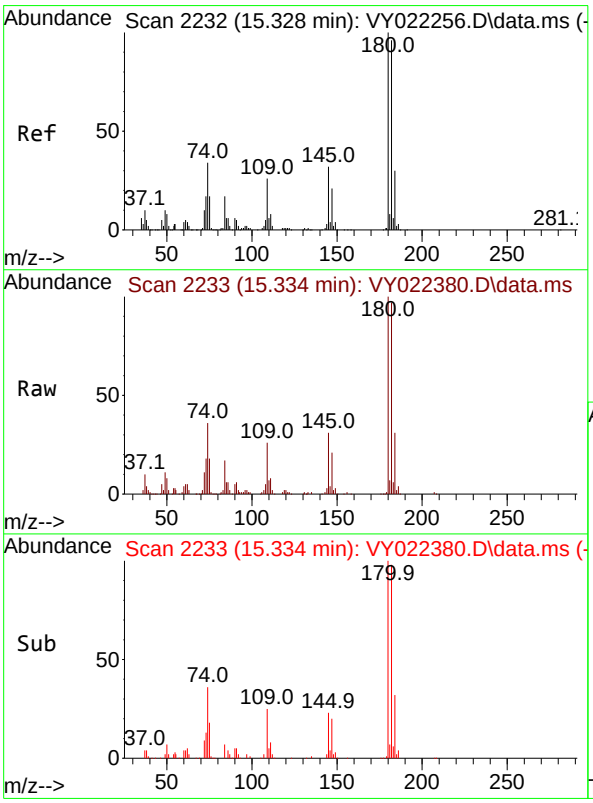
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.2 | 15.2 |
| 129 | 11.0 | 8.8 | 13.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

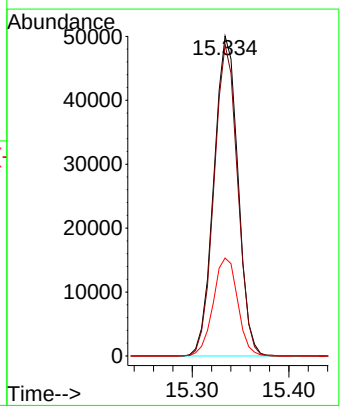
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025




#96
1,2,3-Trichlorobenzene
Concen: 52.428 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY022380.D
Acq: 22 May 2025 08:35

Tgt Ion:180 Resp: 86200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 47.1 | 141.3 |
| 145 | 31.2 | 15.9 | 47.6 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022380.D
Acq On : 22 May 2025 08:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: May 23 03:30:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 60 | 0.01 |
| 2 | T | Dichlorodifluoromethane | 0.522 | 0.512 | 1.9 | 61 | 0.01 |
| 3 | P | Chloromethane | 1.097 | 1.092 | 0.5 | 63 | 0.01 |
| 4 | C | Vinyl Chloride | 1.226 | 1.451 | -18.4# | 72 | 0.00 |
| 5 | T | Bromomethane | 0.998 | 1.202 | -20.4 | 83 | 0.01 |
| 6 | T | Chloroethane | 0.763 | 0.992 | -30.0# | 79 | 0.01 |
| 7 | T | Trichlorofluoromethane | 1.241 | 1.338 | -7.8 | 67 | 0.02 |
| 8 | T | Diethyl Ether | 0.298 | 0.301 | -1.0 | 62 | 0.02 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.539 | 0.600 | -11.3 | 67 | 0.00 |
| 10 | T | Methyl Iodide | 0.624 | 0.697 | -11.7 | 61 | 0.01 |
| 11 | T | Tert butyl alcohol | 0.042 | 0.038 | 9.5 | 59 | 0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.535 | 0.576 | -7.7# | 65 | 0.01 |
| 13 | T | Acrolein | 0.061 | 0.027 | 55.7# | 29# | 0.01 |
| 14 | T | Allyl chloride | 0.938 | 0.886 | 5.5 | 56 | 0.02 |
| 15 | T | Acrylonitrile | 0.123 | 0.120 | 2.4 | 60 | 0.01 |
| 16 | T | Acetone | 0.102 | 0.096 | 5.9 | 63 | 0.00 |
| 17 | T | Carbon Disulfide | 1.744 | 1.805 | -3.5 | 62 | 0.01 |
| 18 | T | Methyl Acetate | 0.323 | 0.304 | 5.9 | 61 | 0.02 |
| 19 | T | Methyl tert-butyl Ether | 1.475 | 1.522 | -3.2 | 63 | 0.02 |
| 20 | T | Methylene Chloride | 0.662 | 0.614 | 7.3 | 62 | 0.01 |
| 21 | T | trans-1,2-Dichloroethene | 0.590 | 0.630 | -6.8 | 64 | 0.02 |
| 22 | T | Diisopropyl ether | 1.980 | 1.925 | 2.8 | 58 | 0.01 |
| 23 | T | Vinyl Acetate | 1.196 | 1.114 | 6.9 | 57 | 0.02 |
| 24 | P | 1,1-Dichloroethane | 1.106 | 1.155 | -4.4 | 62 | 0.01 |
| 25 | T | 2-Butanone | 0.171 | 0.154 | 9.9 | 58 | 0.01 |
| 26 | T | 2,2-Dichloropropane | 0.984 | 1.067 | -8.4 | 65 | 0.01 |
| 27 | T | cis-1,2-Dichloroethene | 0.681 | 0.741 | -8.8 | 65 | 0.01 |
| 28 | T | Bromochloromethane | 0.472 | 0.490 | -3.8 | 63 | 0.01 |
| 29 | T | Tetrahydrofuran | 0.110 | 0.100 | 9.1 | 57 | 0.01 |
| 30 | C | Chloroform | 1.061 | 1.157 | -9.0# | 65 | 0.01 |
| 31 | T | Cyclohexane | 1.105 | 1.072 | 3.0 | 61 | 0.01 |
| 32 | T | 1,1,1-Trichloroethane | 0.974 | 1.054 | -8.2 | 66 | 0.01 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.546 | 0.561 | -2.7 | 63 | 0.01 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 62 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.298 | 0.318 | -6.7 | 66 | 0.01 |
| 36 | T | 1,1-Dichloropropene | 0.492 | 0.517 | -5.1 | 64 | 0.01 |
| 37 | T | Ethyl Acetate | 0.237 | 0.211 | 11.0 | 56 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.509 | 0.548 | -7.7 | 66 | 0.01 |
| 39 | T | Methylcyclohexane | 0.660 | 0.694 | -5.2 | 65 | 0.01 |
| 40 | TM | Benzene | 1.457 | 1.548 | -6.2 | 64 | 0.01 |
| 41 | T | Methacrylonitrile | 0.157 | 0.143 | 8.9 | 56 | 0.04 |
| 42 | TM | 1,2-Dichloroethane | 0.394 | 0.396 | -0.5 | 62 | 0.01 |
| 43 | T | Isopropyl Acetate | 0.516 | 0.468 | 9.3 | 57 | 0.01 |
| 44 | TM | Trichloroethene | 0.362 | 0.385 | -6.4 | 65 | 0.01 |
| 45 | C | 1,2-Dichloropropane | 0.351 | 0.362 | -3.1# | 63 | 0.01 |
| 46 | T | Dibromomethane | 0.189 | 0.197 | -4.2 | 65 | 0.00 |
| 47 | T | Bromodichloromethane | 0.492 | 0.514 | -4.5 | 63 | 0.01 |
| 48 | T | Methyl methacrylate | 0.241 | 0.215 | 10.8 | 56 | 0.01 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022380.D
Acq On : 22 May 2025 08:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: May 23 03:30:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 0.002 | 0.002 | 0.0 | 65 | 0.00 |
| 50 | S | Toluene-d8 | 1.222 | 1.298 | -6.2 | 66 | 0.01 |
| 51 | T | 4-Methyl-2-Pentanone | 0.253 | 0.230 | 9.1 | 57 | 0.00 |
| 52 | CM | Toluene | 0.923 | 0.978 | -6.0# | 65 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.480 | 0.478 | 0.4 | 61 | 0.01 |
| 54 | T | cis-1,3-Dichloropropene | 0.550 | 0.565 | -2.7 | 63 | 0.01 |
| 55 | T | 1,1,2-Trichloroethane | 0.243 | 0.246 | -1.2 | 63 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.378 | 0.372 | 1.6 | 61 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.431 | 0.443 | -2.8 | 63 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.170 | 0.180 | -5.9 | 61 | 0.01 |
| 59 | T | 2-Hexanone | 0.170 | 0.151 | 11.2 | 57 | 0.00 |
| 60 | T | Dibromochloromethane | 0.315 | 0.330 | -4.8 | 64 | 0.01 |
| 61 | T | 1,2-Dibromoethane | 0.226 | 0.236 | -4.4 | 65 | 0.01 |
| 62 | S | 4-Bromofluorobenzene | 0.387 | 0.387 | 0.0 | 62 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 62 | 0.00 |
| 64 | T | Tetrachloroethene | 0.462 | 0.502 | -8.7 | 66 | 0.00 |
| 65 | PM | Chlorobenzene | 1.128 | 1.194 | -5.9 | 64 | 0.01 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.388 | 0.402 | -3.6 | 63 | 0.00 |
| 67 | C | Ethyl Benzene | 2.113 | 2.234 | -5.7# | 64 | 0.00 |
| 68 | T | m/p-Xylenes | 0.796 | 0.849 | -6.7 | 65 | 0.00 |
| 69 | T | o-Xylene | 0.753 | 0.791 | -5.0 | 64 | 0.01 |
| 70 | T | Styrene | 1.270 | 1.325 | -4.3 | 63 | 0.00 |
| 71 | P | Bromoform | 0.209 | 0.212 | -1.4 | 63 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 61 | 0.00 |
| 73 | T | Isopropylbenzene | 4.142 | 4.432 | -7.0 | 65 | 0.00 |
| 74 | T | N-amyl acetate | 1.185 | 1.082 | 8.7 | 57 | 0.01 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.637 | 0.657 | -3.1 | 64 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.507 | 0.499 | 1.6 | 61 | 0.00 |
| 77 | T | Bromobenzene | 0.885 | 0.930 | -5.1 | 64 | 0.01 |
| 78 | T | n-propylbenzene | 4.996 | 5.385 | -7.8 | 64 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.746 | 2.881 | -4.9 | 63 | 0.01 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.344 | 3.533 | -5.7 | 64 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.250 | 0.234 | 6.4 | 61 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.824 | 2.941 | -4.1 | 62 | 0.01 |
| 83 | T | tert-Butylbenzene | 2.972 | 3.200 | -7.7 | 65 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.319 | 3.526 | -6.2 | 63 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.412 | 4.835 | -9.6 | 65 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.710 | 4.077 | -9.9 | 65 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.806 | 1.920 | -6.3 | 64 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.737 | 1.831 | -5.4 | 64 | 0.00 |
| 89 | T | n-Butylbenzene | 3.510 | 3.887 | -10.7 | 65 | 0.00 |
| 90 | T | Hexachloroethane | 0.749 | 0.795 | -6.1 | 64 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.517 | 1.600 | -5.5 | 64 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.103 | 0.104 | -1.0 | 64 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.876 | 0.937 | -7.0 | 64 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.489 | 0.518 | -5.9 | 63 | 0.00 |
| 95 | T | Naphthalene | 1.663 | 1.696 | -2.0 | 63 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022380.D
Acq On : 22 May 2025 08:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: May 23 03:30:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 0.743 | 0.779 | -4.8 | 64 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022380.D
Acq On : 22 May 2025 08:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: May 23 03:30:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 60 | 0.01 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 49.047 | 1.9 | 61 | 0.01 |
| 3 | P | Chloromethane | 50.000 | 49.773 | 0.5 | 63 | 0.01 |
| 4 | C | Vinyl Chloride | 50.000 | 59.188 | -18.4# | 72 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 60.227 | -20.5 | 83 | 0.01 |
| 6 | T | Chloroethane | 50.000 | 65.048 | -30.1# | 79 | 0.01 |
| 7 | T | Trichlorofluoromethane | 50.000 | 53.896 | -7.8 | 67 | 0.02 |
| 8 | T | Diethyl Ether | 50.000 | 50.471 | -0.9 | 62 | 0.02 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 55.692 | -11.4 | 67 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 55.849 | -11.7 | 61 | 0.01 |
| 11 | T | Tert butyl alcohol | 250.000 | 227.243 | 9.1 | 59 | 0.01 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 53.894 | -7.8# | 65 | 0.01 |
| 13 | T | Acrolein | 250.000 | 109.497 | 56.2# | 29 | 0.01 |
| 14 | T | Allyl chloride | 50.000 | 47.221 | 5.6 | 56 | 0.02 |
| 15 | T | Acrylonitrile | 250.000 | 243.864 | 2.5 | 60 | 0.01 |
| 16 | T | Acetone | 250.000 | 235.333 | 5.9 | 63 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 51.759 | -3.5 | 62 | 0.01 |
| 18 | T | Methyl Acetate | 50.000 | 46.981 | 6.0 | 61 | 0.02 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 51.604 | -3.2 | 63 | 0.02 |
| 20 | T | Methylene Chloride | 50.000 | 46.380 | 7.2 | 62 | 0.01 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 53.333 | -6.7 | 64 | 0.02 |
| 22 | T | Diisopropyl ether | 50.000 | 48.607 | 2.8 | 58 | 0.01 |
| 23 | T | Vinyl Acetate | 250.000 | 232.677 | 6.9 | 57 | 0.02 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 52.212 | -4.4 | 62 | 0.01 |
| 25 | T | 2-Butanone | 250.000 | 225.284 | 9.9 | 58 | 0.01 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 54.202 | -8.4 | 65 | 0.01 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 54.417 | -8.8 | 65 | 0.01 |
| 28 | T | Bromochloromethane | 50.000 | 51.923 | -3.8 | 63 | 0.01 |
| 29 | T | Tetrahydrofuran | 250.000 | 227.418 | 9.0 | 57 | 0.01 |
| 30 | C | Chloroform | 50.000 | 54.509 | -9.0# | 65 | 0.01 |
| 31 | T | Cyclohexane | 50.000 | 48.489 | 3.0 | 61 | 0.01 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 54.115 | -8.2 | 66 | 0.01 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 51.370 | -2.7 | 63 | 0.01 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 62 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 53.337 | -6.7 | 66 | 0.01 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 52.597 | -5.2 | 64 | 0.01 |
| 37 | T | Ethyl Acetate | 50.000 | 44.661 | 10.7 | 56 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 53.827 | -7.7 | 66 | 0.01 |
| 39 | T | Methylcyclohexane | 50.000 | 52.569 | -5.1 | 65 | 0.01 |
| 40 | TM | Benzene | 50.000 | 53.106 | -6.2 | 64 | 0.01 |
| 41 | T | Methacrylonitrile | 50.000 | 45.426 | 9.1 | 56 | 0.04 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 50.267 | -0.5 | 62 | 0.01 |
| 43 | T | Isopropyl Acetate | 50.000 | 45.395 | 9.2 | 57 | 0.01 |
| 44 | TM | Trichloroethene | 50.000 | 53.190 | -6.4 | 65 | 0.01 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 51.460 | -2.9# | 63 | 0.01 |
| 46 | T | Dibromomethane | 50.000 | 51.917 | -3.8 | 65 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 52.278 | -4.6 | 63 | 0.01 |
| 48 | T | Methyl methacrylate | 50.000 | 44.496 | 11.0 | 56 | 0.01 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022380.D
Acq On : 22 May 2025 08:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: May 23 03:30:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 994.901 | 0.5 | 65 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 53.110 | -6.2 | 66 | 0.01 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 227.107 | 9.2 | 57 | 0.00 |
| 52 | CM | Toluene | 50.000 | 53.002 | -6.0# | 65 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 49.816 | 0.4 | 61 | 0.01 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 51.367 | -2.7 | 63 | 0.01 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 50.711 | -1.4 | 63 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 49.163 | 1.7 | 61 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 51.386 | -2.8 | 63 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 265.693 | -6.3 | 61 | 0.01 |
| 59 | T | 2-Hexanone | 250.000 | 222.384 | 11.0 | 57 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 52.423 | -4.8 | 64 | 0.01 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 52.166 | -4.3 | 65 | 0.01 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 49.898 | 0.2 | 62 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 62 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 54.305 | -8.6 | 66 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 52.931 | -5.9 | 64 | 0.01 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.774 | -3.5 | 63 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 52.876 | -5.8# | 64 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 106.617 | -6.6 | 65 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 52.518 | -5.0 | 64 | 0.01 |
| 70 | T | Styrene | 50.000 | 52.163 | -4.3 | 63 | 0.00 |
| 71 | P | Bromoform | 50.000 | 50.521 | -1.0 | 63 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 61 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 53.502 | -7.0 | 65 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 45.682 | 8.6 | 57 | 0.01 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 51.561 | -3.1 | 64 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 49.223 | 1.6 | 61 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 52.574 | -5.1 | 64 | 0.01 |
| 78 | T | n-propylbenzene | 50.000 | 53.885 | -7.8 | 64 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 52.461 | -4.9 | 63 | 0.01 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 52.837 | -5.7 | 64 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 46.827 | 6.3 | 61 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 52.070 | -4.1 | 62 | 0.01 |
| 83 | T | tert-Butylbenzene | 50.000 | 53.844 | -7.7 | 65 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 53.109 | -6.2 | 63 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 54.800 | -9.6 | 65 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 54.938 | -9.9 | 65 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 53.142 | -6.3 | 64 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 52.704 | -5.4 | 64 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 55.365 | -10.7 | 65 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 53.097 | -6.2 | 64 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 52.741 | -5.5 | 64 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.863 | -1.7 | 64 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 53.492 | -7.0 | 64 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 52.980 | -6.0 | 63 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 50.990 | -2.0 | 63 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022380.D
Acq On : 22 May 2025 08:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: May 23 03:30:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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 | 52.428 | -4.9 | 64 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

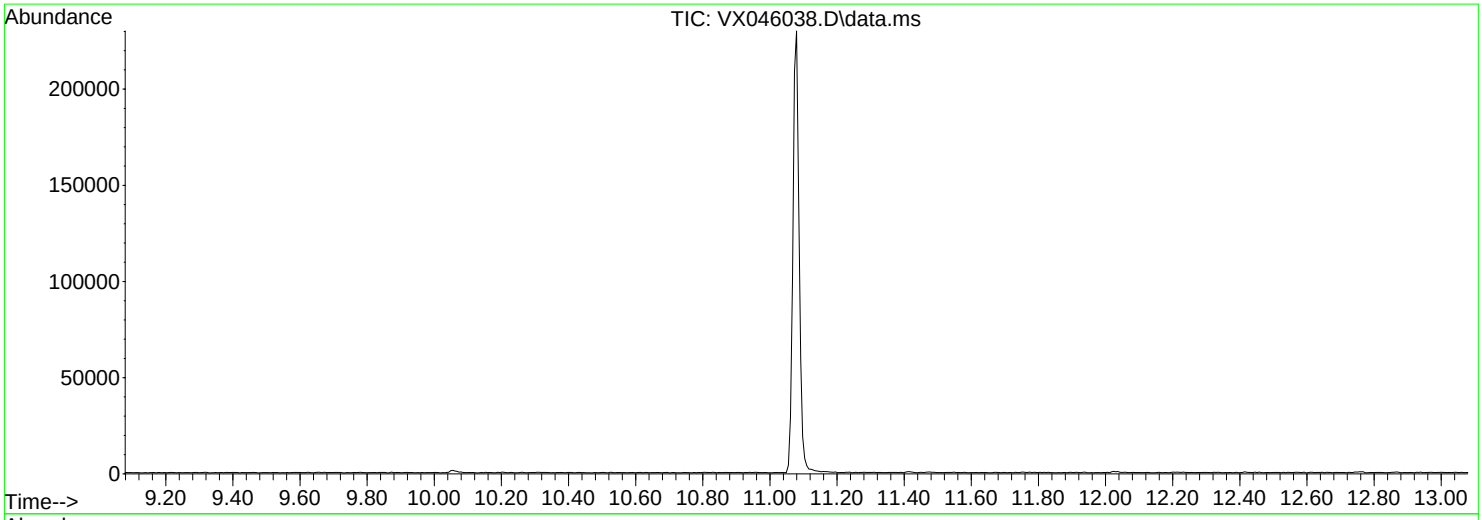
# QC SAMPLE DATA

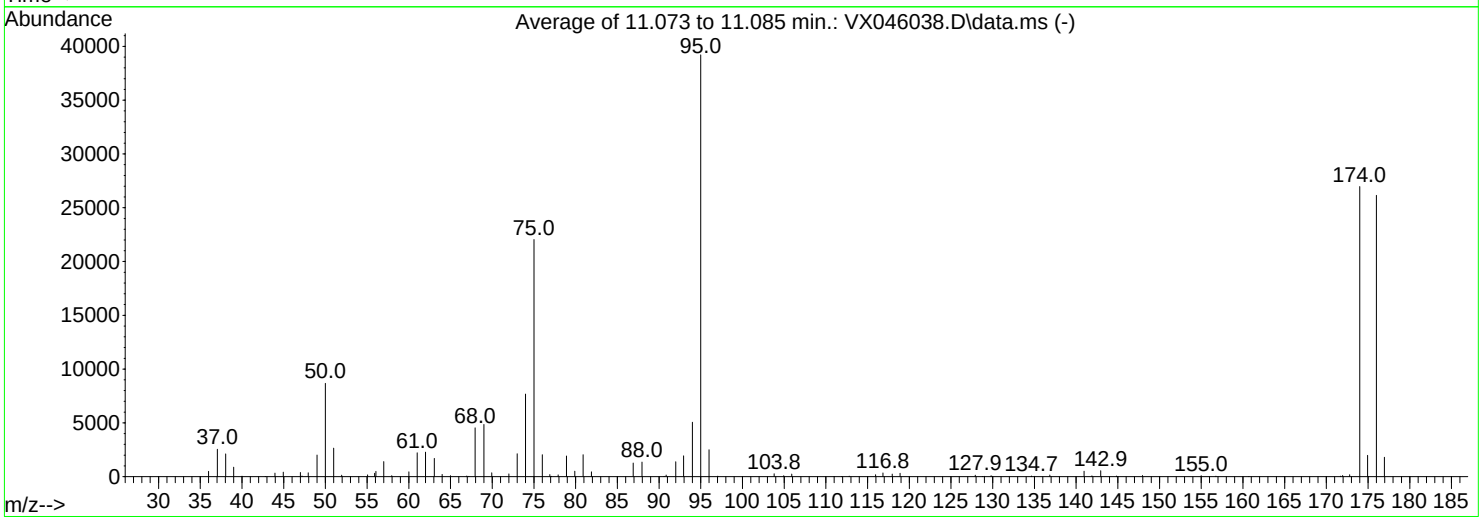
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046038.D
Acq On : 05 May 2025 09:37
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260
Last Update : Tue May 06 07:12:22 2025




AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

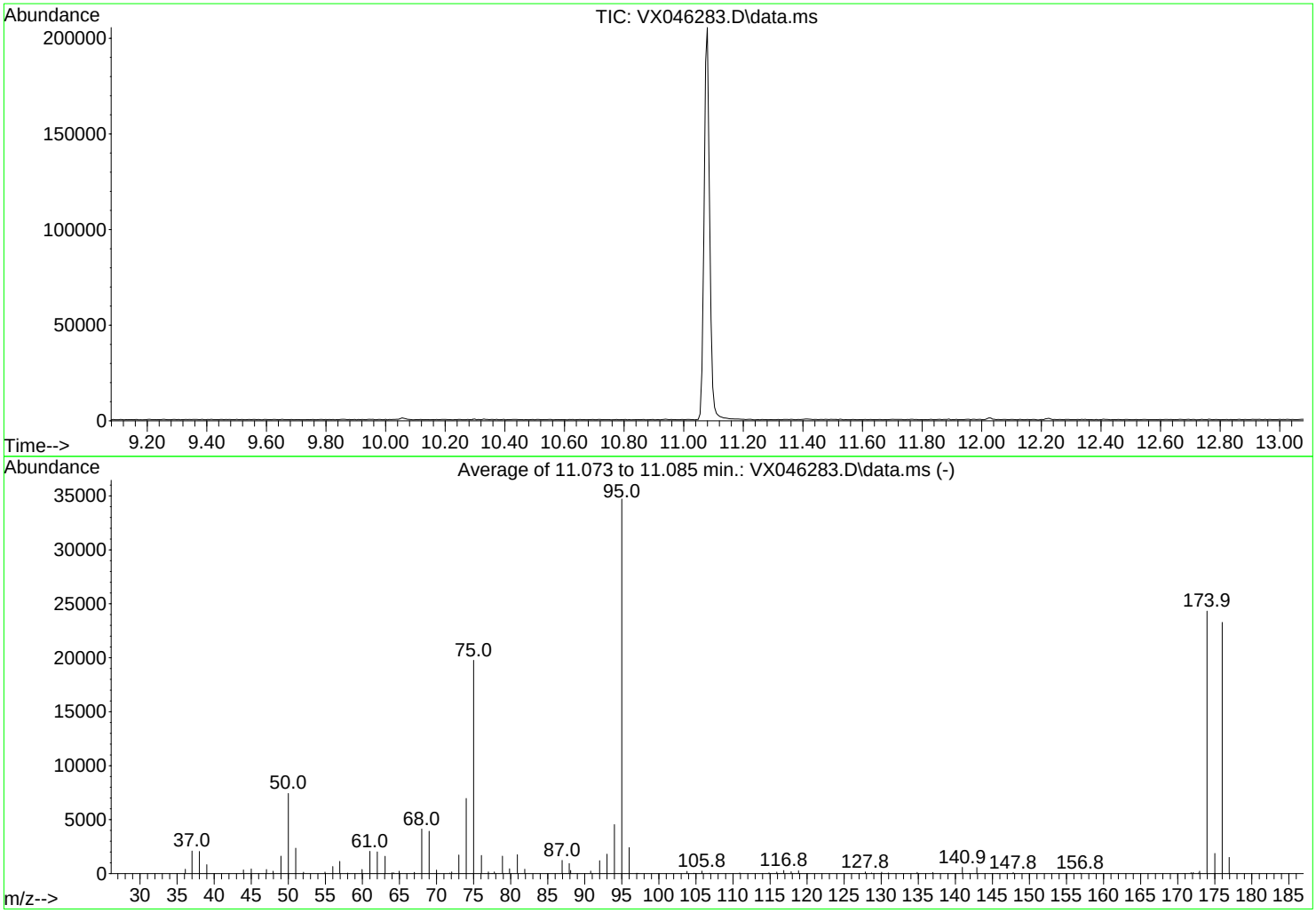
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 22.1 | 8676 | PASS |
| 75 | 95 | 30 | 60 | 56.2 | 22052 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 39213 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 2505 | PASS |
| 173 | 174 | 0.00 | 2 | 0.7 | 185 | PASS |
| 174 | 95 | 50 | 100 | 68.8 | 26963 | PASS |
| 175 | 174 | 5 | 9 | 7.3 | 1980 | PASS |
| 176 | 174 | 95 | 101 | 97.0 | 26147 | PASS |
| 177 | 176 | 5 | 9 | 6.9 | 1802 | PASS |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046283.D
Acq On : 21 May 2025 09:13
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\82X050525W.M
Title : SW846 8260
Last Update : Tue May 06 07:12:22 2025




AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

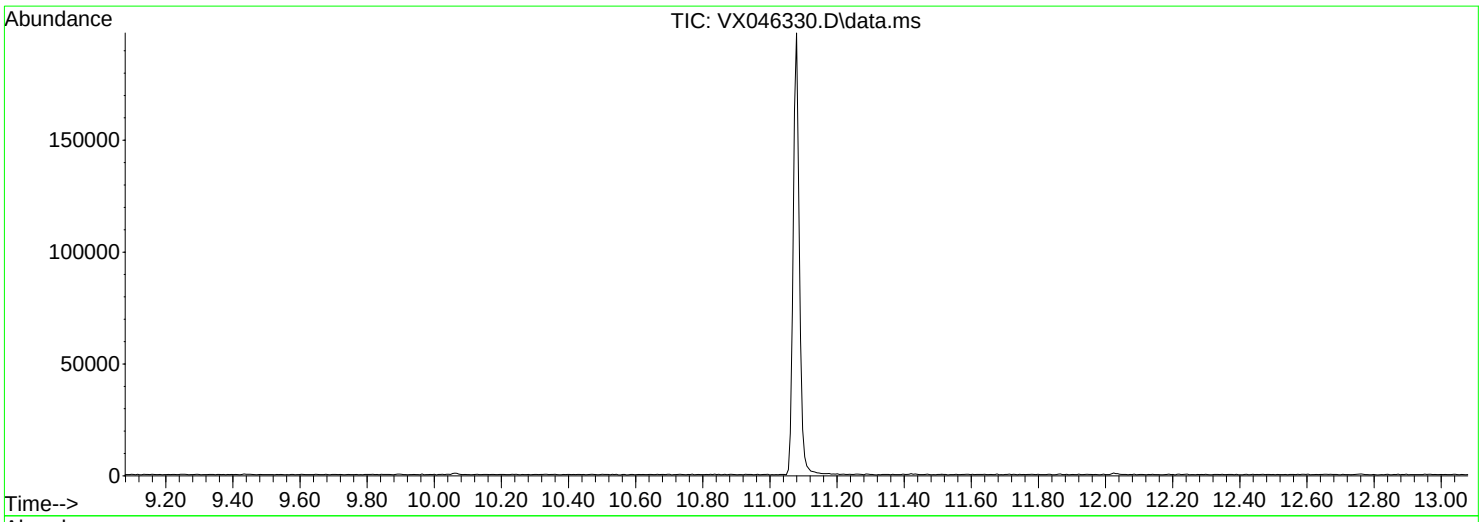
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 21.4 | 7429 | PASS |
| 75 | 95 | 30 | 60 | 56.9 | 19765 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 34712 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 2413 | PASS |
| 173 | 174 | 0.00 | 2 | 0.9 | 221 | PASS |
| 174 | 95 | 50 | 100 | 70.1 | 24317 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 1864 | PASS |
| 176 | 174 | 95 | 101 | 95.7 | 23280 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 1508 | PASS |

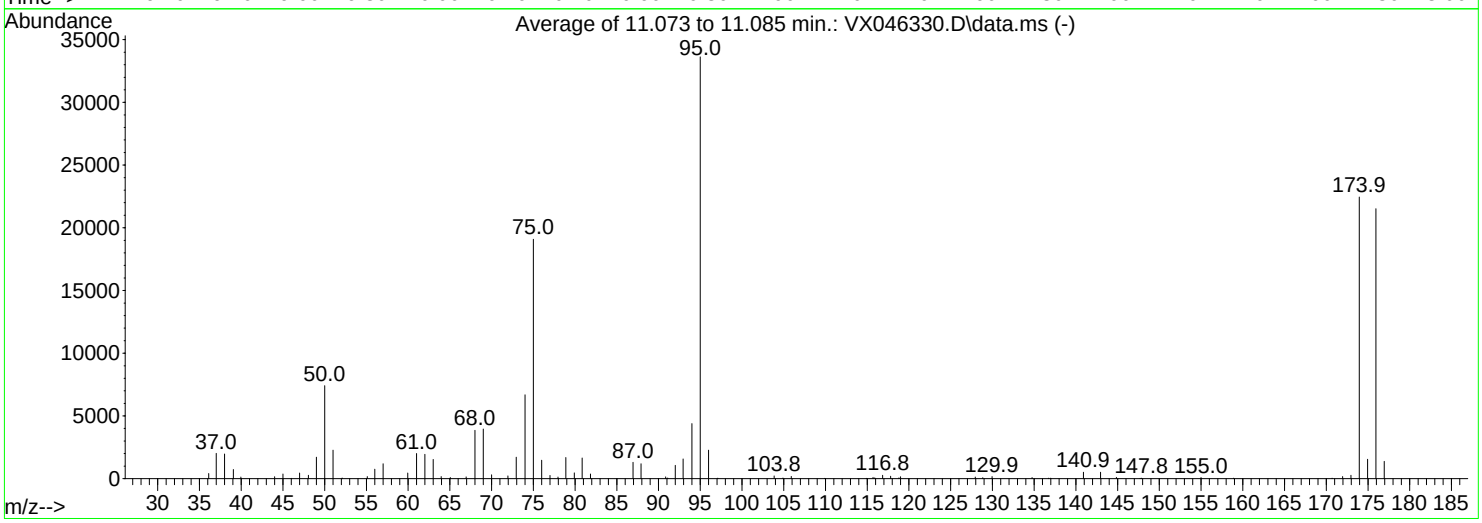
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046330.D
Acq On : 23 May 2025 08:25
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260
Last Update : Tue May 06 07:12:22 2025




AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

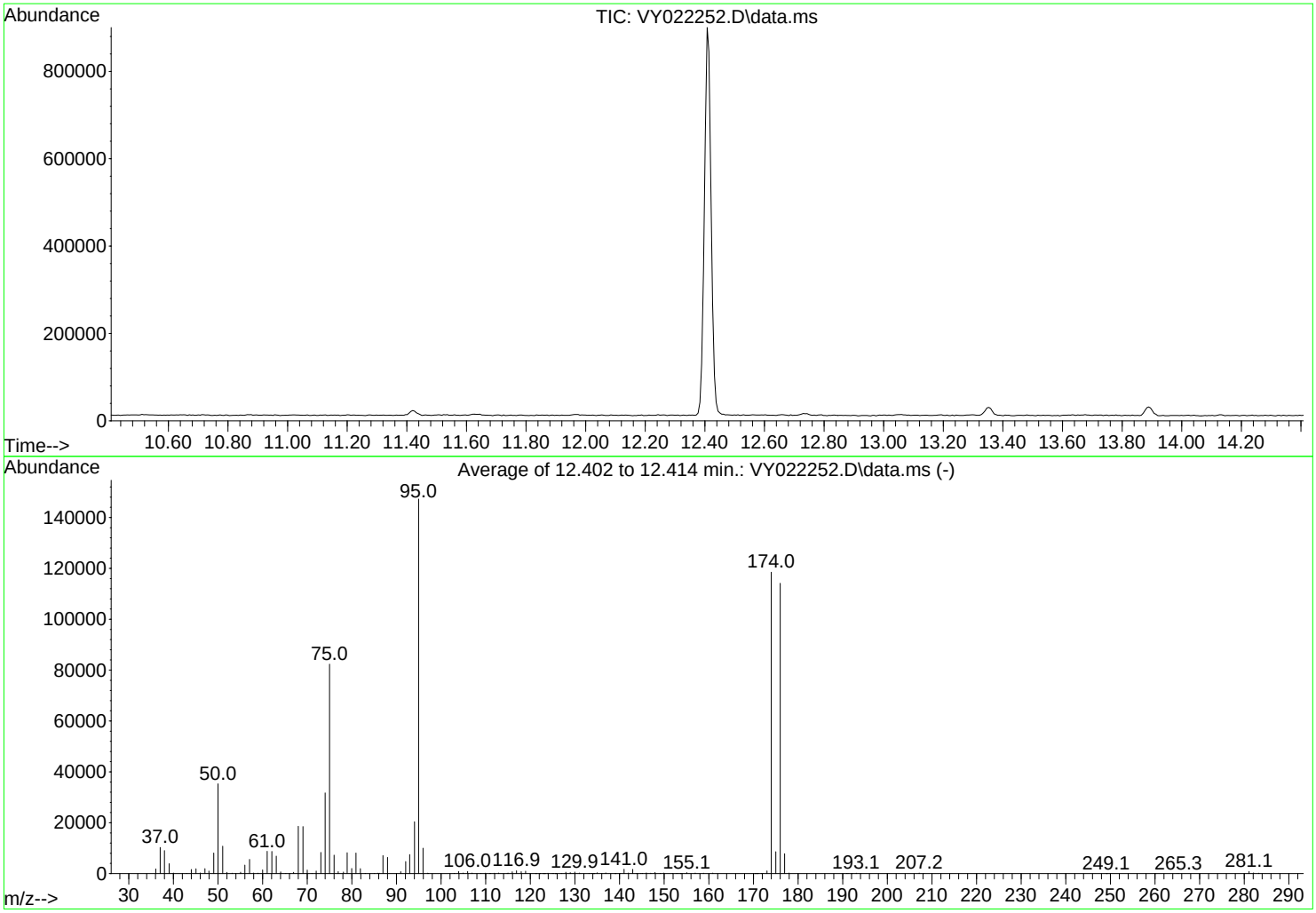
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 22.0 | 7406 | PASS |
| 75 | 95 | 30 | 60 | 56.7 | 19080 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 33629 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 2267 | PASS |
| 173 | 174 | 0.00 | 2 | 1.2 | 270 | PASS |
| 174 | 95 | 50 | 100 | 66.8 | 22448 | PASS |
| 175 | 174 | 5 | 9 | 6.9 | 1542 | PASS |
| 176 | 174 | 95 | 101 | 95.9 | 21525 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 1375 | PASS |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022252.D
Acq On : 15 May 2025 07:52
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Title : SW846 8260
Last Update : Fri May 16 01:42:09 2025




AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1745

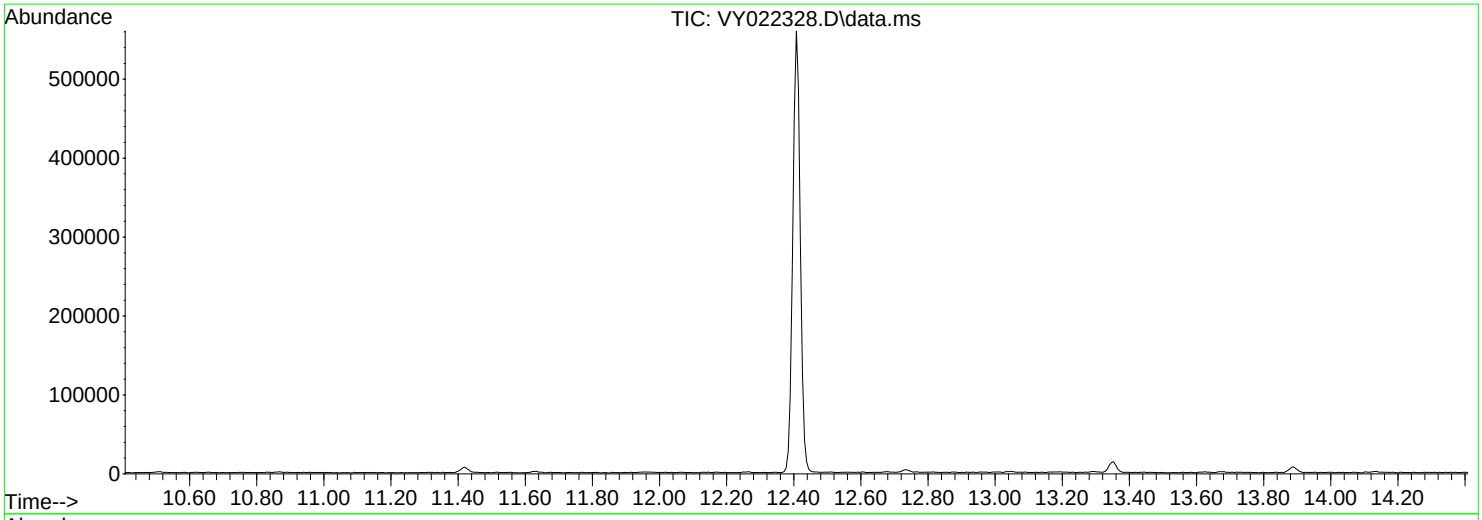
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 24.0 | 35318 | PASS |
| 75 | 95 | 30 | 60 | 55.9 | 82344 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 147275 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 9993 | PASS |
| 173 | 174 | 0.00 | 2 | 0.9 | 1042 | PASS |
| 174 | 95 | 50 | 100 | 80.5 | 118504 | PASS |
| 175 | 174 | 5 | 9 | 7.3 | 8635 | PASS |
| 176 | 174 | 95 | 101 | 96.3 | 114157 | PASS |
| 177 | 176 | 5 | 9 | 6.8 | 7810 | PASS |

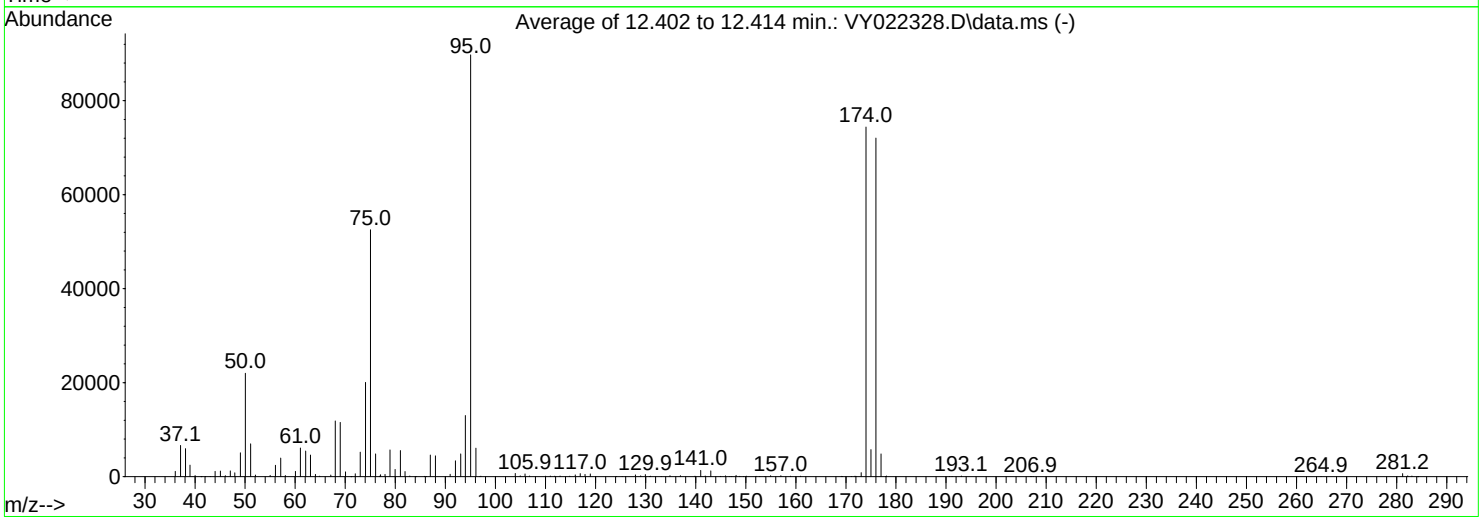
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022328.D
Acq On : 20 May 2025 08:09
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Title : SW846 8260
Last Update : Fri May 16 01:42:09 2025




AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

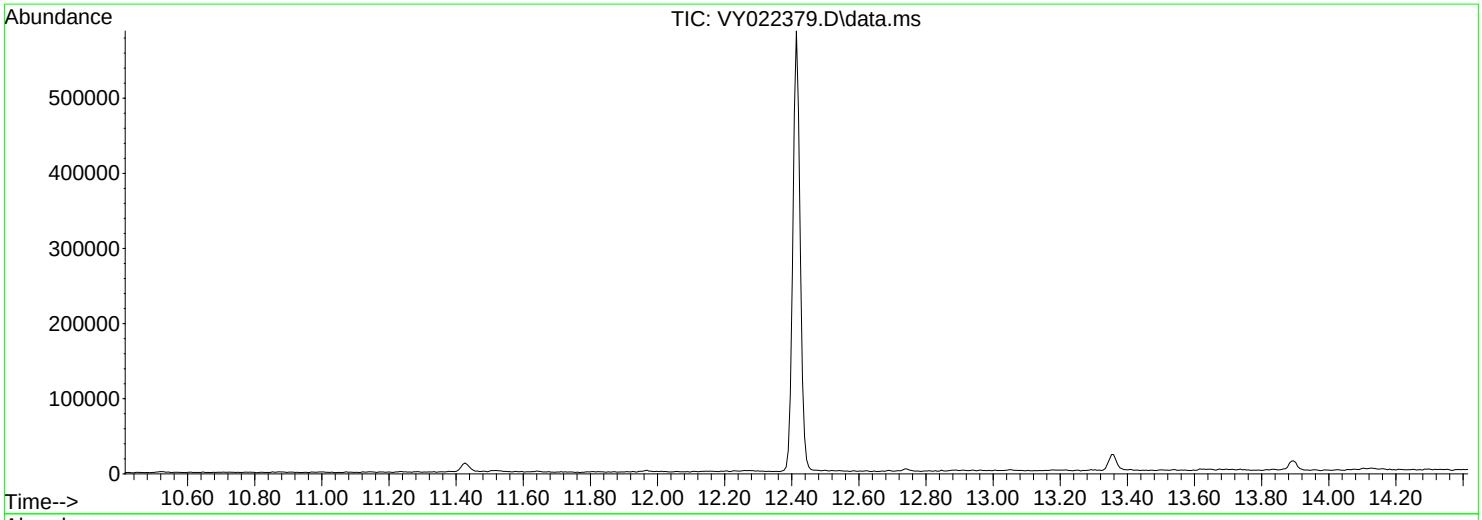
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 24.5 | 21987 | PASS |
| 75 | 95 | 30 | 60 | 58.5 | 52528 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 89755 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 6051 | PASS |
| 173 | 174 | 0.00 | 2 | 1.2 | 859 | PASS |
| 174 | 95 | 50 | 100 | 82.9 | 74379 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 5741 | PASS |
| 176 | 174 | 95 | 101 | 96.8 | 72035 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 4837 | PASS |

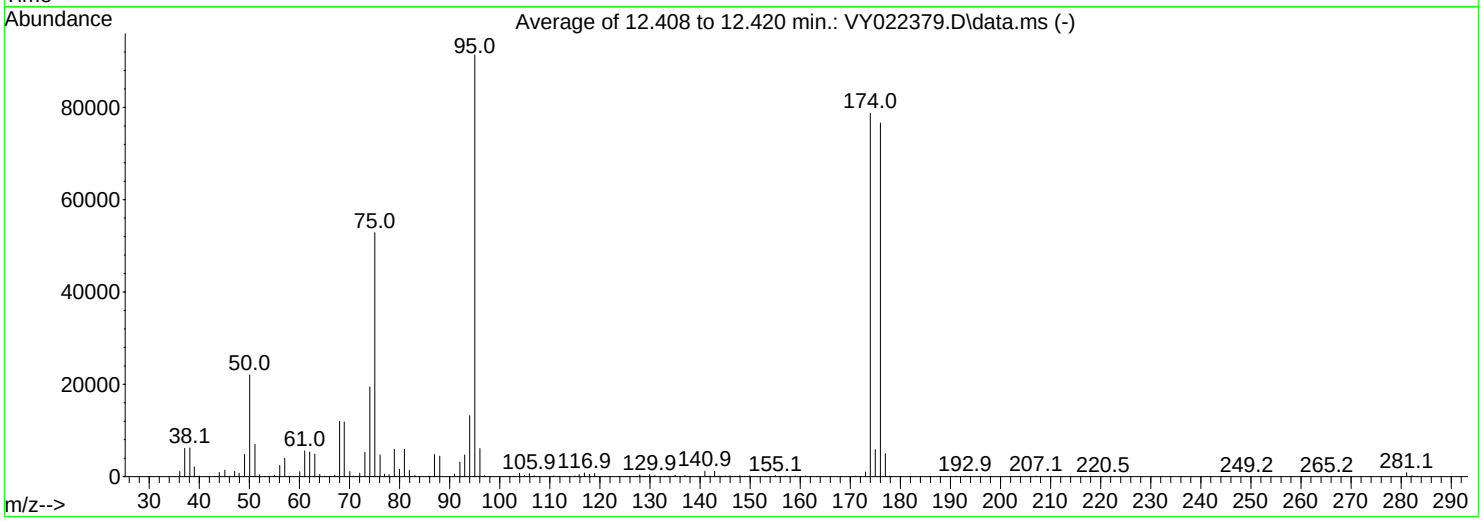
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022379.D
Acq On : 22 May 2025 08:05
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Title : SW846 8260
Last Update : Fri May 16 01:42:09 2025




AutoFind: Scans 1753, 1754, 1755; Background Corrected with Scan 1743

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 24.1 | 22056 | PASS |
| 75 | 95 | 30 | 60 | 57.8 | 52859 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 91380 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 6119 | PASS |
| 173 | 174 | 0.00 | 2 | 1.3 | 1000 | PASS |
| 174 | 95 | 50 | 100 | 86.1 | 78696 | PASS |
| 175 | 174 | 5 | 9 | 7.5 | 5864 | PASS |
| 176 | 174 | 95 | 101 | 97.4 | 76611 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 4987 | PASS |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | |
| Client Sample ID: | VX0521WBL01 | SDG No.: | Q2075 |
| Lab Sample ID: | VX0521WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046286.D | 1 | | 05/21/25 10:46 | VX052125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 108-88-3 | Toluene | 1.00 | U | 0.14 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 1.00 | U | 0.13 | 1.00 | ug/L |
| 1330-20-7 | Total Xylenes | 3.00 | U | 0.36 | 3.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 1.00 | U | 0.12 | 1.00 | ug/L |
| 103-65-1 | n-propylbenzene | 1.00 | U | 0.13 | 1.00 | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.00 | U | 0.15 | 1.00 | ug/L |
| 98-06-6 | tert-Butylbenzene | 1.00 | U | 0.14 | 1.00 | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.00 | U | 0.14 | 1.00 | ug/L |
| 135-98-8 | sec-Butylbenzene | 1.00 | U | 0.13 | 1.00 | ug/L |
| 99-87-6 | p-Isopropyltoluene | 1.00 | U | 0.13 | 1.00 | ug/L |
| 104-51-8 | n-Butylbenzene | 1.00 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.5 | | 74 - 125 | 107% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.9 | | 75 - 124 | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.8 | | 86 - 113 | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.7 | | 77 - 121 | 101% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 66700 | 5.544 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 133000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 125000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 53100 | 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\VX052125\
Data File : VX046286.D
Acq On : 21 May 2025 10:46
Operator : JC/MD
Sample : VX0521WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBL01

Quant Time: May 22 01:45:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

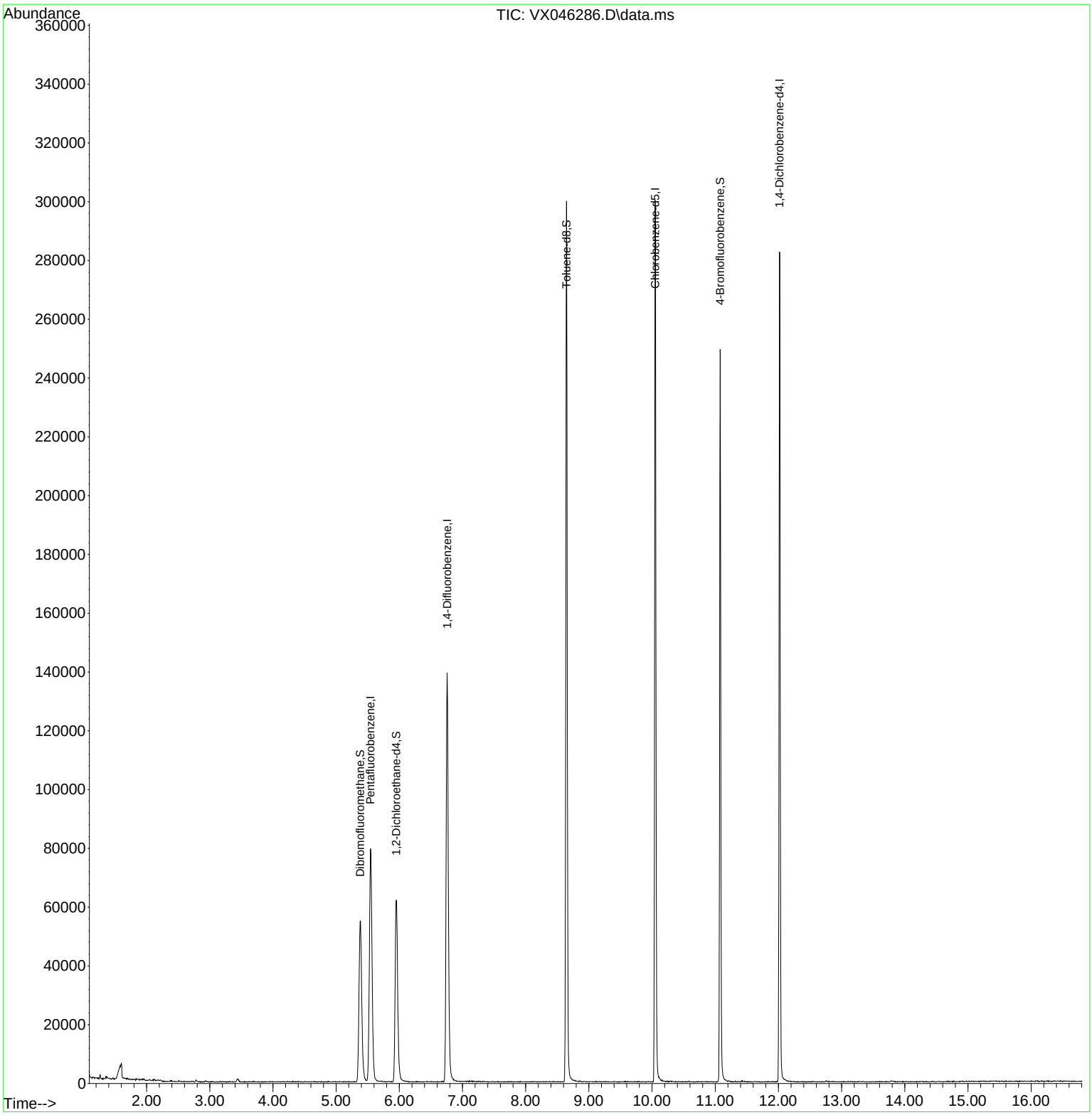
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 66690 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 132814 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 124685 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 53099 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 66578 | 53.549 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 107.100% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 48705 | 50.925 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 101.860% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 168104 | 50.783 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 101.560% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 64393 | 50.713 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 101.420% | | | |
| Target Compounds | | | | | | Qvalue |

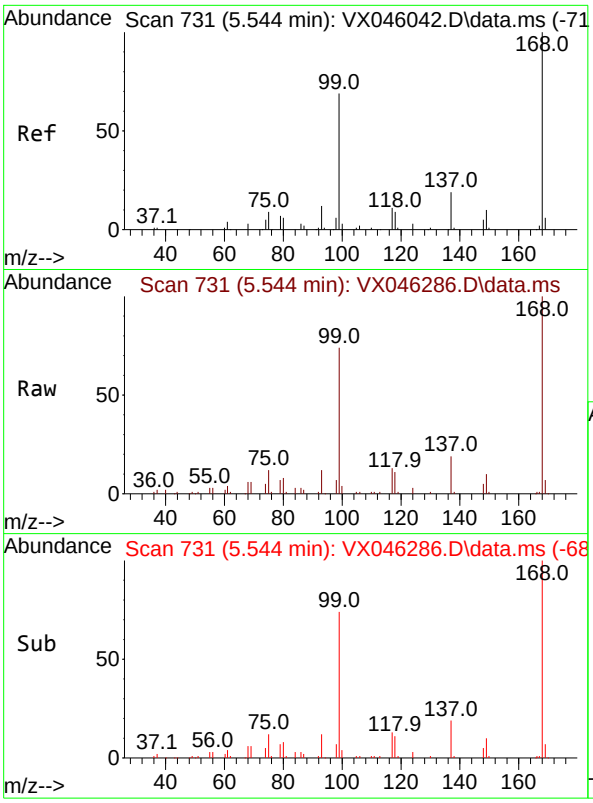
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046286.D
Acq On : 21 May 2025 10:46
Operator : JC/MD
Sample : VX0521WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBL01

Quant Time: May 22 01:45:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



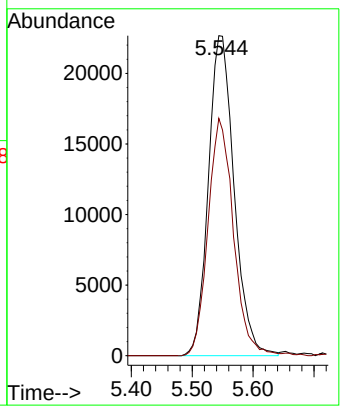


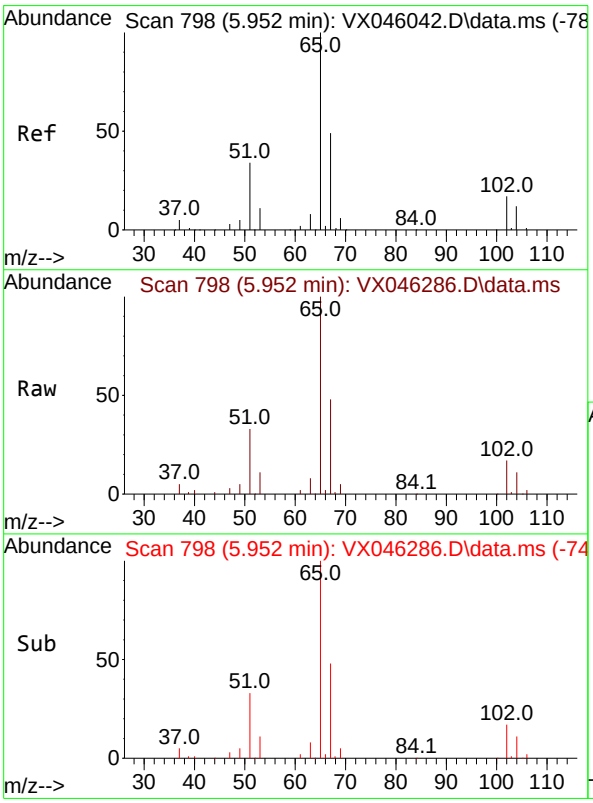

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046286.D
Acq: 21 May 2025 10:46

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBL01

Tgt Ion:168 Resp: 66690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 74.1 | 54.9 | 82.3 |

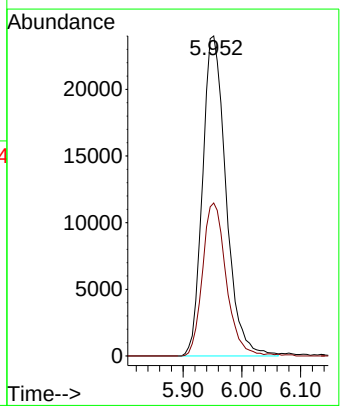


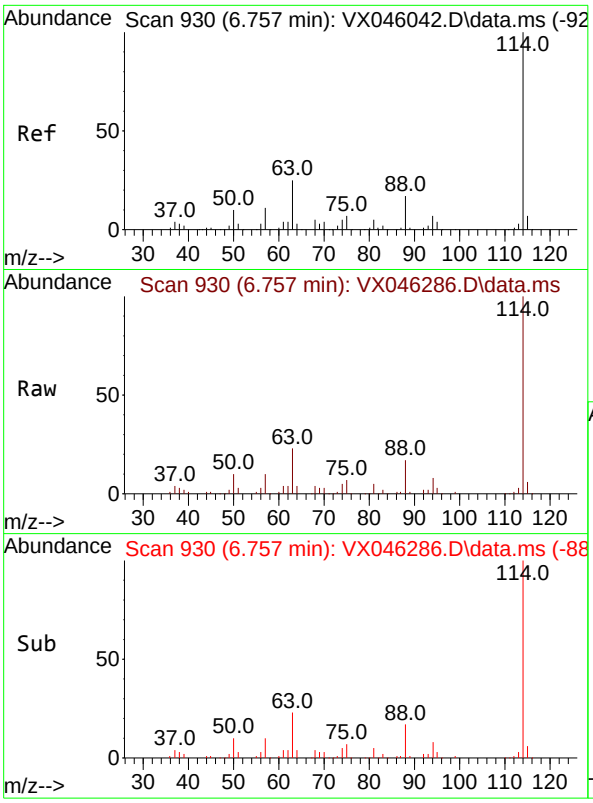




#33
1,2-Dichloroethane-d4
Concen: 53.549 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX046286.D
Acq: 21 May 2025 10:46

Tgt Ion: 65 Resp: 66578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.5 | 0.0 | 99.0 |



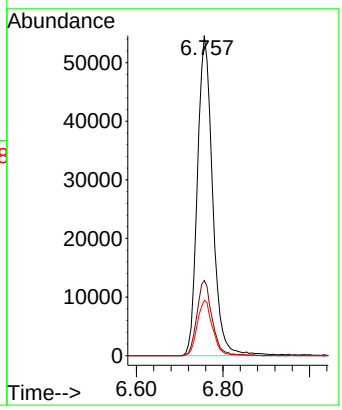


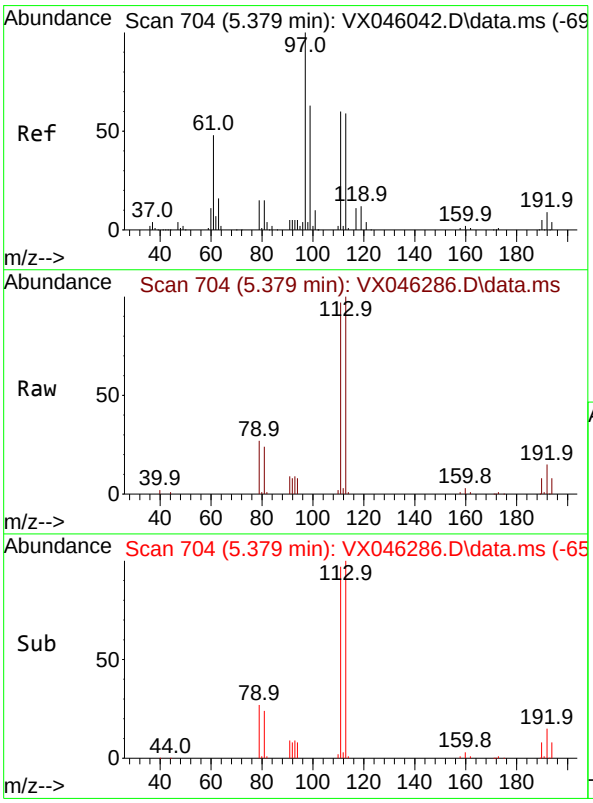

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046286.D
Acq: 21 May 2025 10:46

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBL01

Tgt Ion:114 Resp: 132814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.5 | 0.0 | 49.2 |
| 88 | 17.3 | 0.0 | 33.6 |

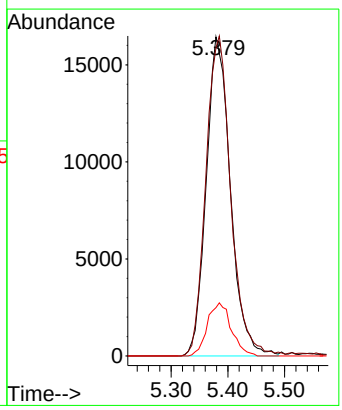


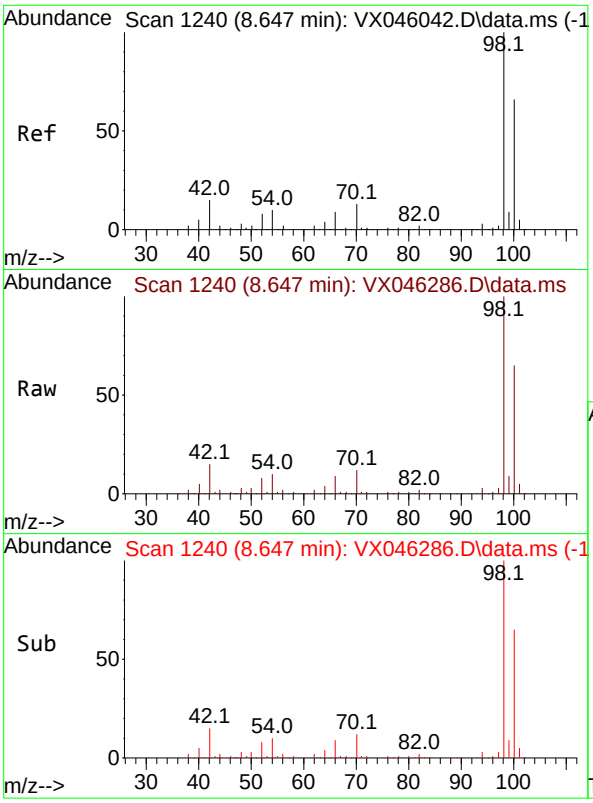




#35
Dibromofluoromethane
Concen: 50.925 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX046286.D
Acq: 21 May 2025 10:46

Tgt Ion:113 Resp: 48705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 83.1 | 124.7 |
| 192 | 16.4 | 13.3 | 19.9 |



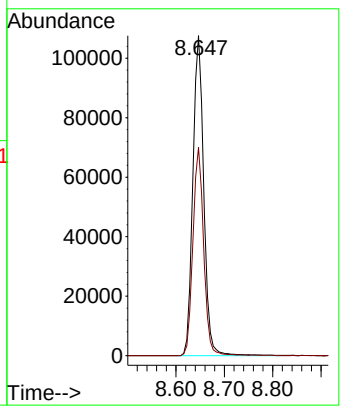


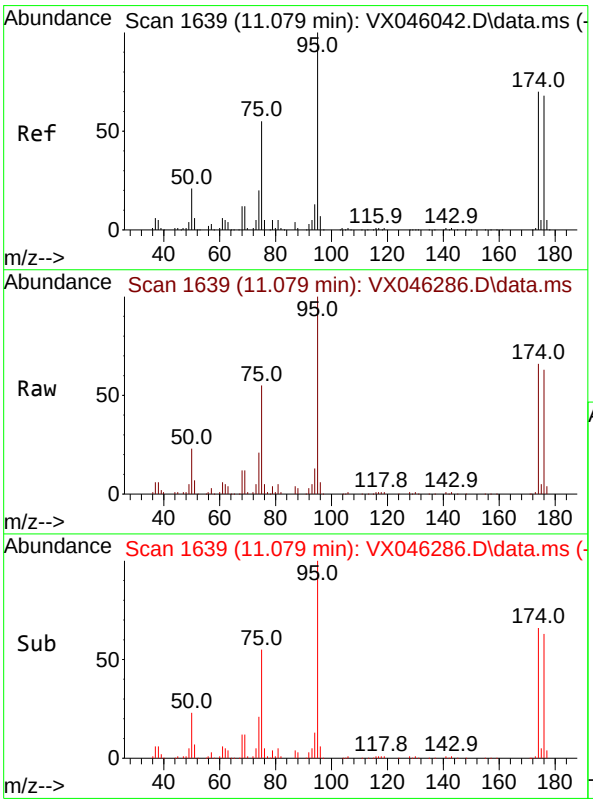

#50
Toluene-d8
Concen: 50.783 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046286.D
Acq: 21 May 2025 10:46

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBL01

Tgt Ion: 98 Resp: 168104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.2 | 53.5 | 80.3 |

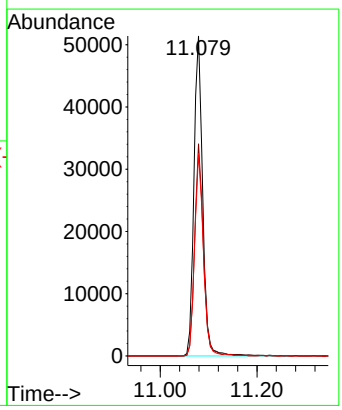


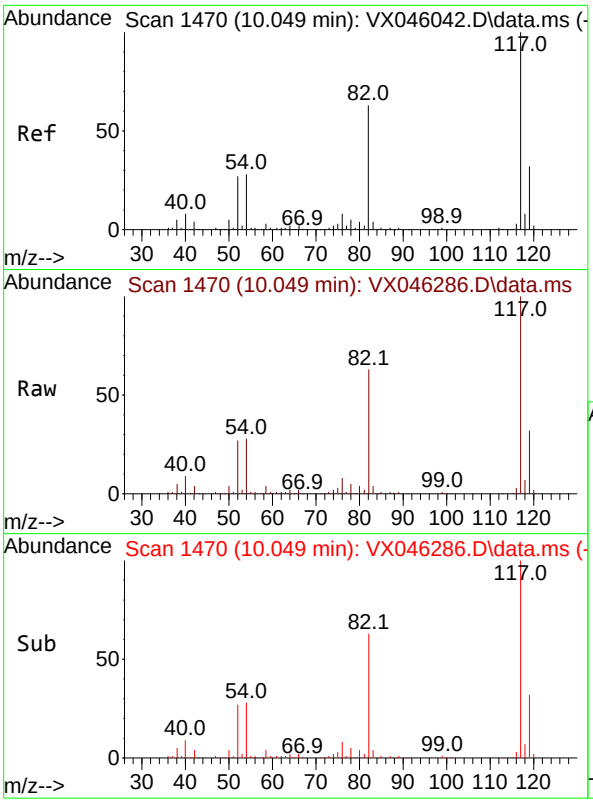




#62
4-Bromofluorobenzene
Concen: 50.713 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046286.D
Acq: 21 May 2025 10:46

Tgt Ion: 95 Resp: 64393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.8 | 0.0 | 135.8 |
| 176 | 63.7 | 0.0 | 131.4 |



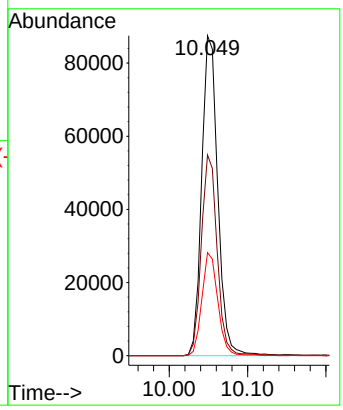


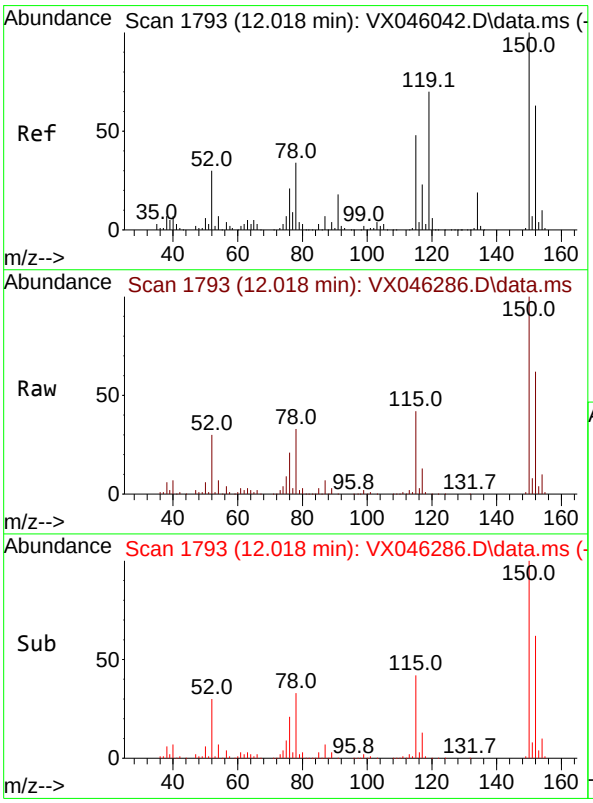

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046286.D
Acq: 21 May 2025 10:46

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBL01

Tgt Ion:117 Resp: 124685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 62.7 | 50.6 | 76.0 |
| 119 | 32.2 | 25.8 | 38.6 |

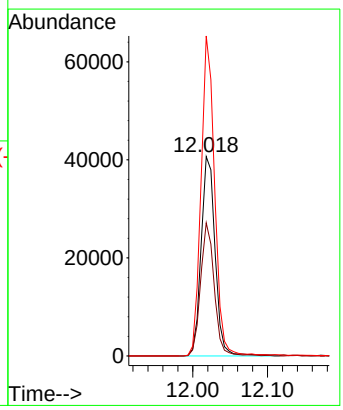



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046286.D
Acq: 21 May 2025 10:46

Tgt Ion:152 Resp: 53099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.1 | 46.9 | 140.7 |
| 150 | 155.5 | 0.0 | 351.0 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | |
| Client Sample ID: | VX0523MBL01 | SDG No.: | Q2075 |
| Lab Sample ID: | VX0523MBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | 100 uL | Test: | VOCMS Group3 |
| GC Column: | DB-624UI ID : 0.18 | Level : | MED |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046332.D | 1 | | 05/23/25 09:53 | VX052325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 500 | U | 79.0 | 500 | ug/Kg |
| 108-88-3 | Toluene | 500 | U | 78.0 | 500 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 500 | U | 67.0 | 500 | ug/Kg |
| 1330-20-7 | Total Xylenes | 1500 | U | 202 | 1500 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 500 | U | 78.0 | 500 | ug/Kg |
| 103-65-1 | n-propylbenzene | 500 | U | 73.0 | 500 | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | 500 | U | 82.0 | 500 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 500 | U | 67.0 | 500 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 500 | U | 64.0 | 500 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 500 | U | 66.0 | 500 | ug/Kg |
| 99-87-6 | p-Isopropyltoluene | 500 | U | 62.0 | 500 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 500 | U | 150 | 500 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.1 | | 63 - 155 | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.8 | | 70 - 134 | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.0 | | 74 - 123 | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.6 | | 38 - 136 | 103% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 59100 | 5.544 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 117000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 112000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 48400 | 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\VX052325\
Data File : VX046332.D
Acq On : 23 May 2025 09:53
Operator : JC/MD
Sample : VX0523MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBL01

Quant Time: May 23 22:56:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 59074 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 117281 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 111918 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 48375 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 58472 | 53.092 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 106.180% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 42889 | 50.783 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 101.560% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 146121 | 49.989 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 99.980% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 57871 | 51.613 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 103.220% | | | |

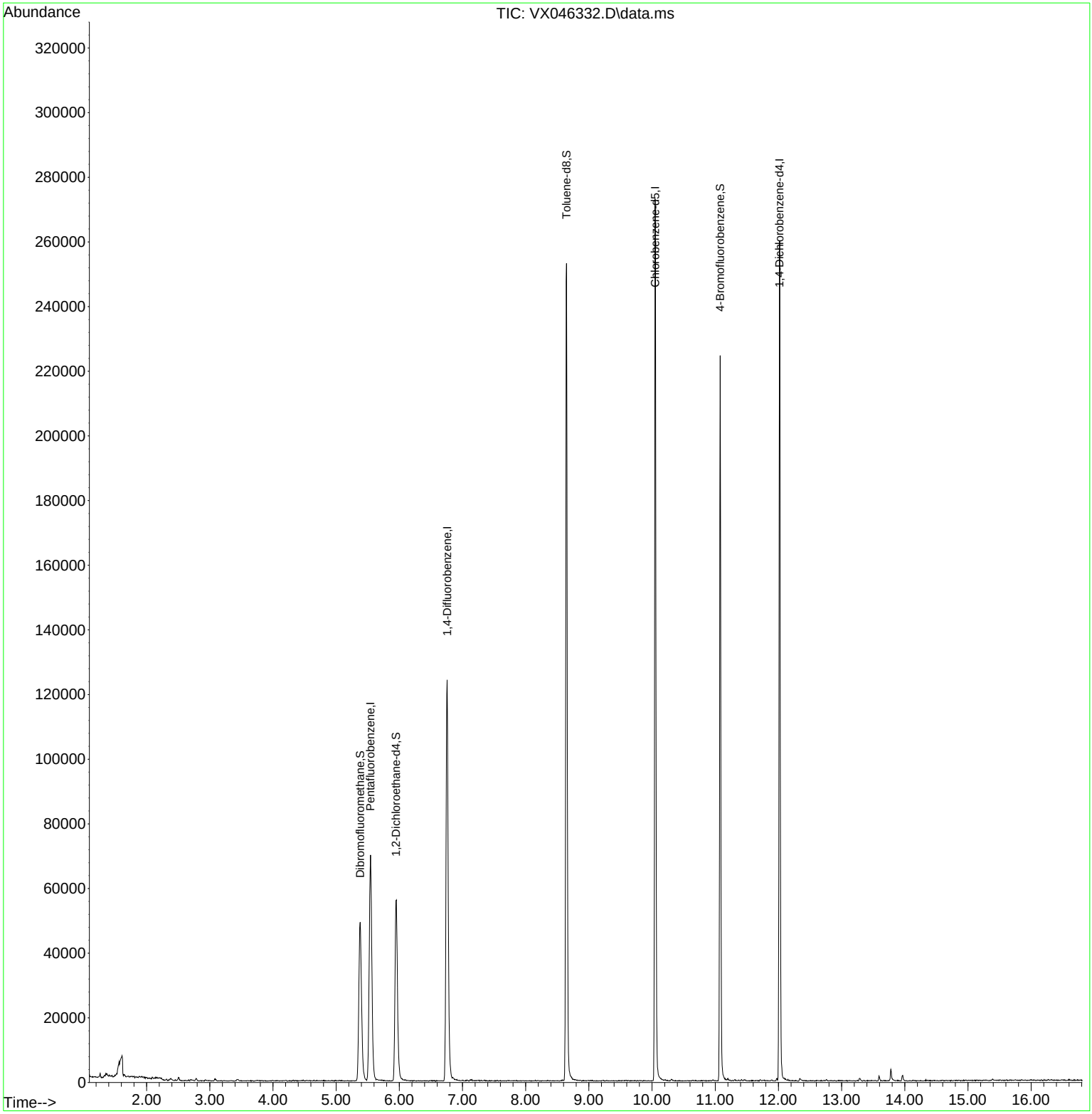
Target Compounds Qvalue

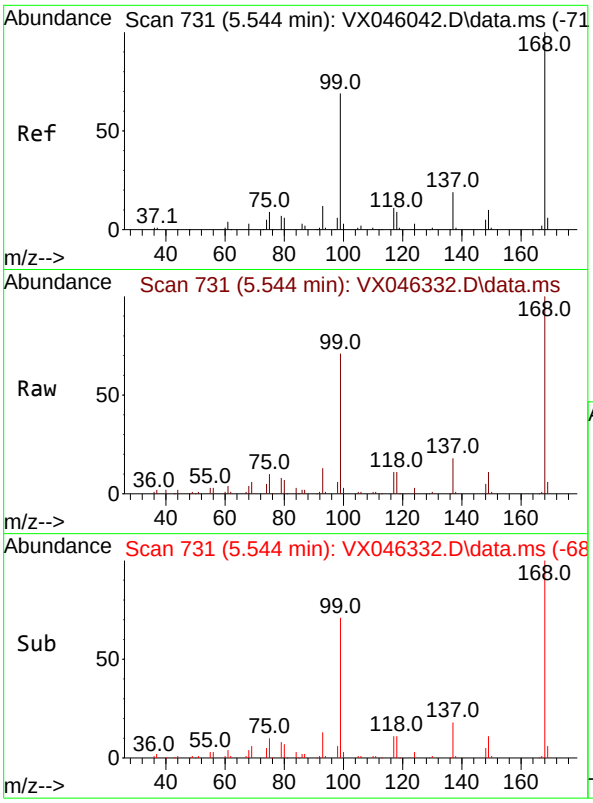
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046332.D
Acq On : 23 May 2025 09:53
Operator : JC/MD
Sample : VX0523MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBL01

Quant Time: May 23 22:56:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



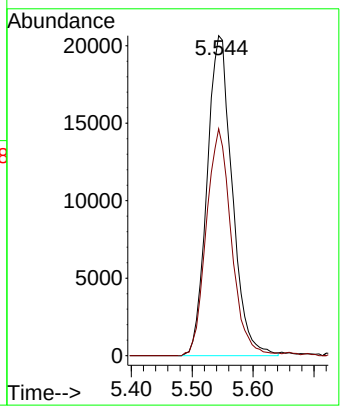


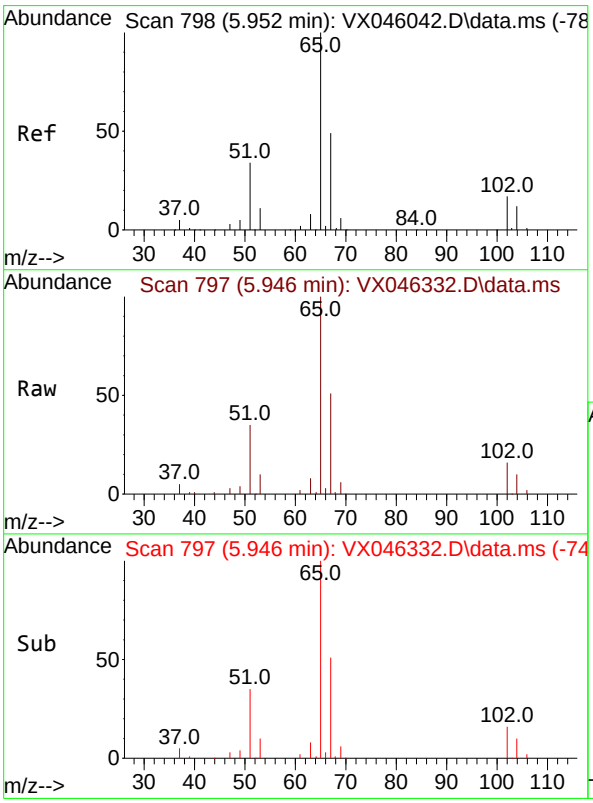

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046332.D
Acq: 23 May 2025 09:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBL01

Tgt Ion:168 Resp: 59074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 70.9 | 54.9 | 82.3 |

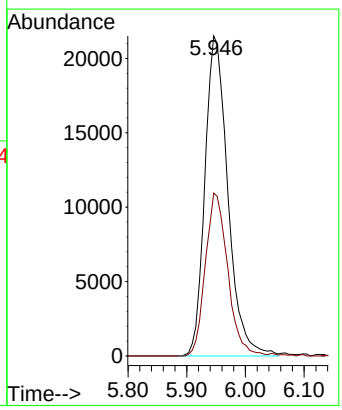


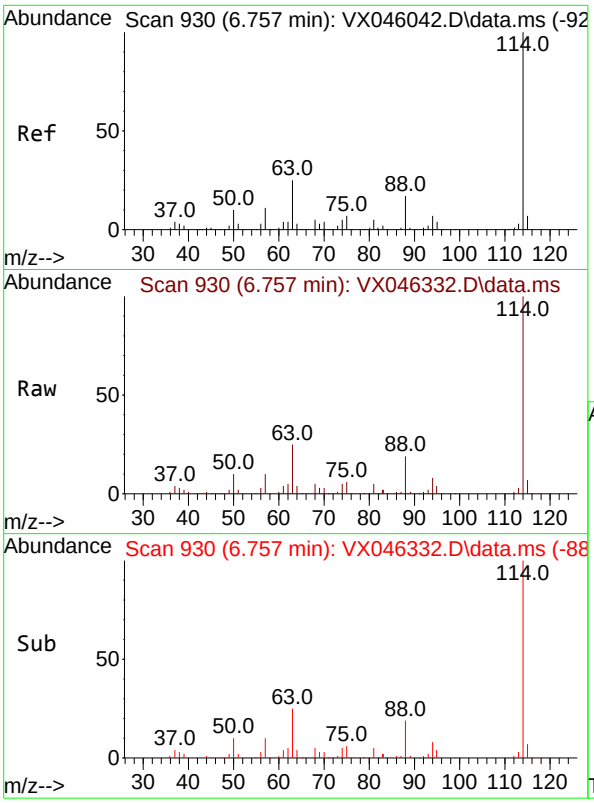




#33
1,2-Dichloroethane-d4
Concen: 53.092 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX046332.D
Acq: 23 May 2025 09:53

Tgt Ion: 65 Resp: 58472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.5 | 0.0 | 99.0 |



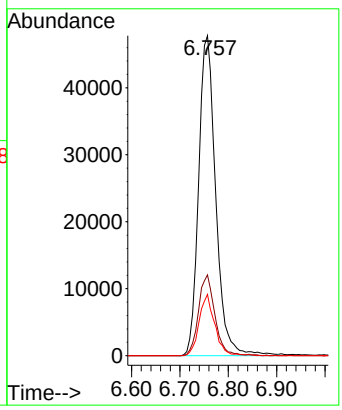


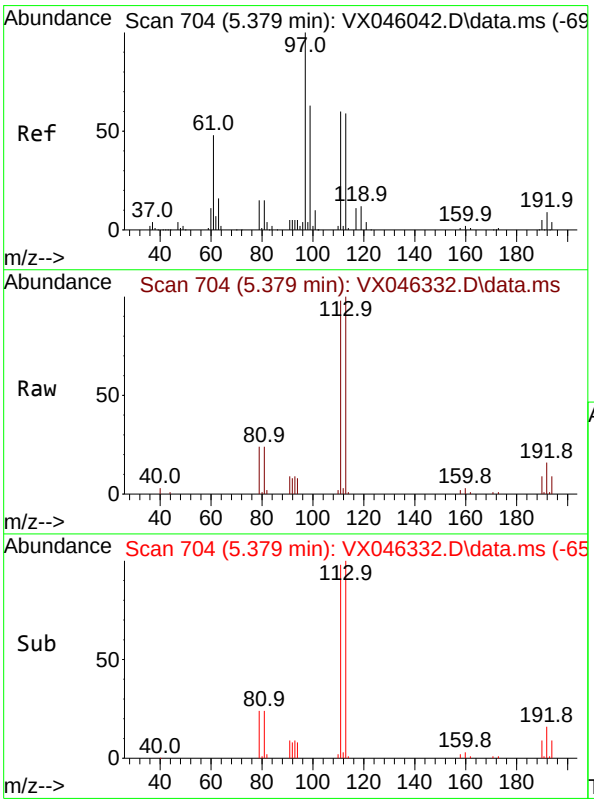

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046332.D
Acq: 23 May 2025 09:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBL01

Tgt Ion:114 Resp: 117281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.2 | 0.0 | 49.2 |
| 88 | 19.1 | 0.0 | 33.6 |

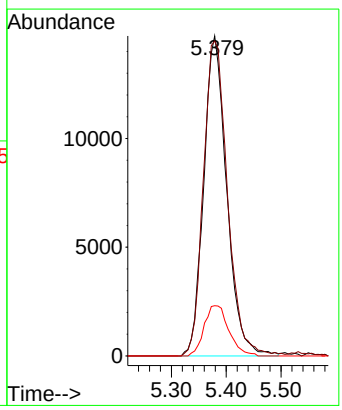


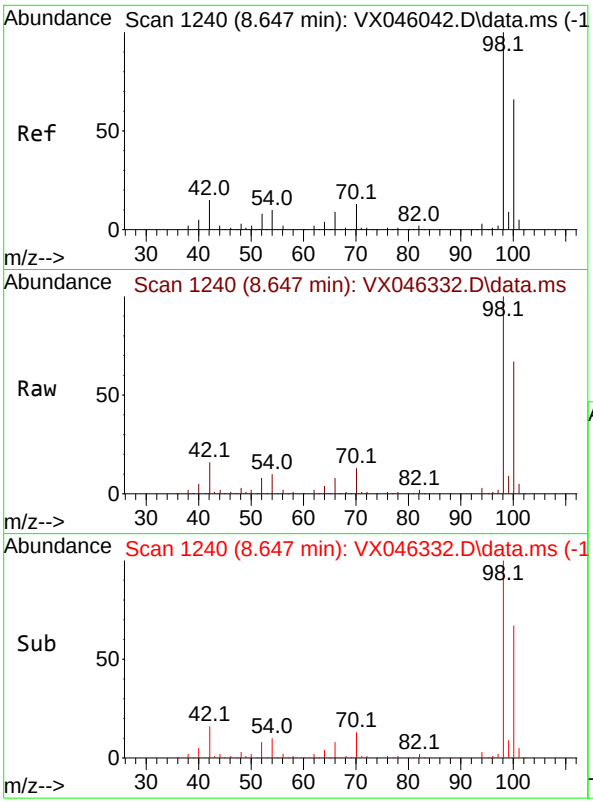




#35
Dibromofluoromethane
Concen: 50.783 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX046332.D
Acq: 23 May 2025 09:53

Tgt Ion:113 Resp: 42889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 83.1 | 124.7 |
| 192 | 16.9 | 13.3 | 19.9 |



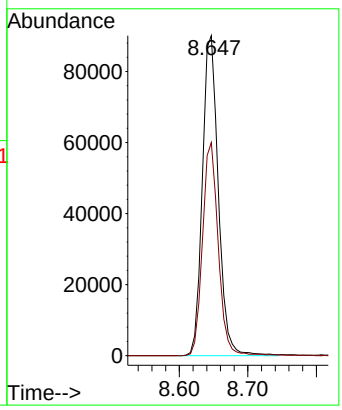


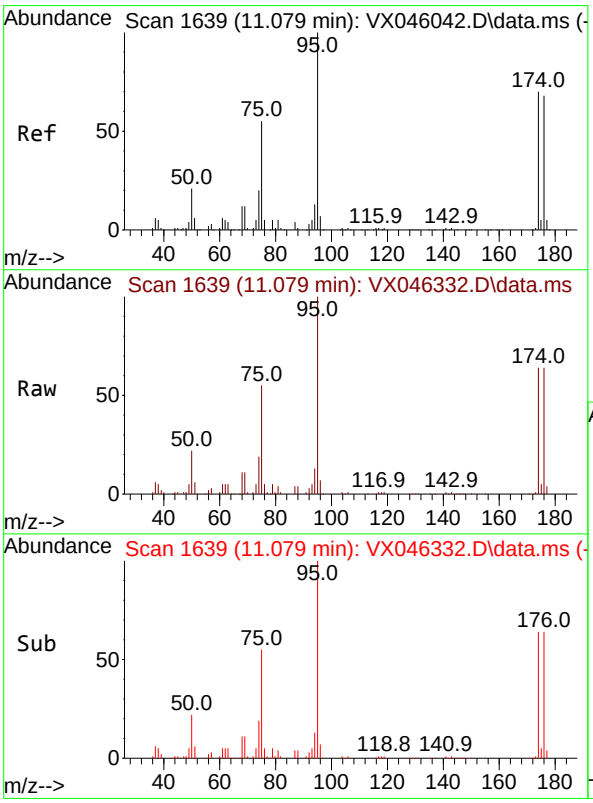

#50
Toluene-d8
Concen: 49.989 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046332.D
Acq: 23 May 2025 09:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBL01

Tgt Ion: 98 Resp: 146121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.7 | 53.5 | 80.3 |

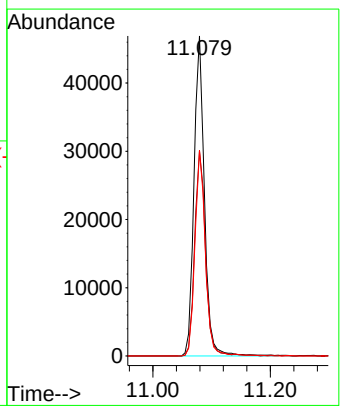


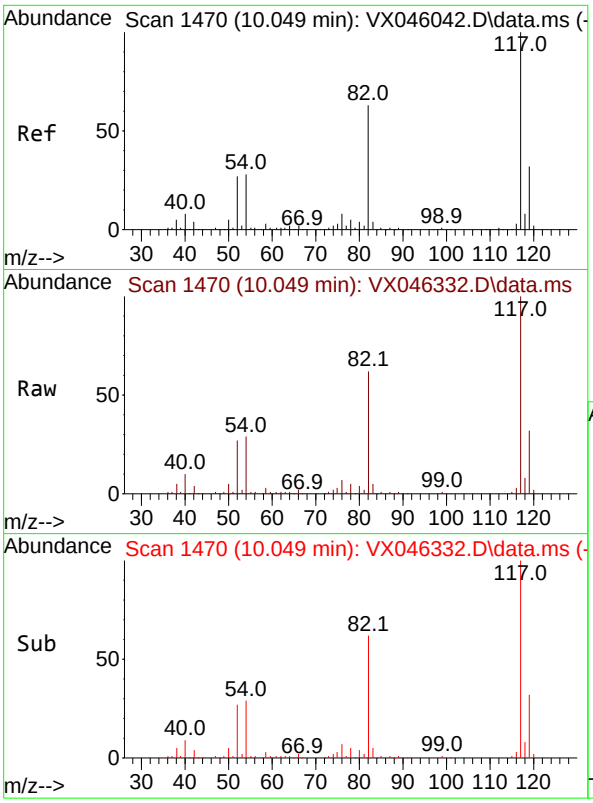




#62
4-Bromofluorobenzene
Concen: 51.613 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046332.D
Acq: 23 May 2025 09:53

Tgt Ion: 95 Resp: 57871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.6 | 0.0 | 135.8 |
| 176 | 64.3 | 0.0 | 131.4 |



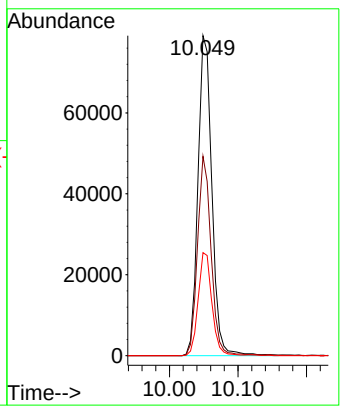


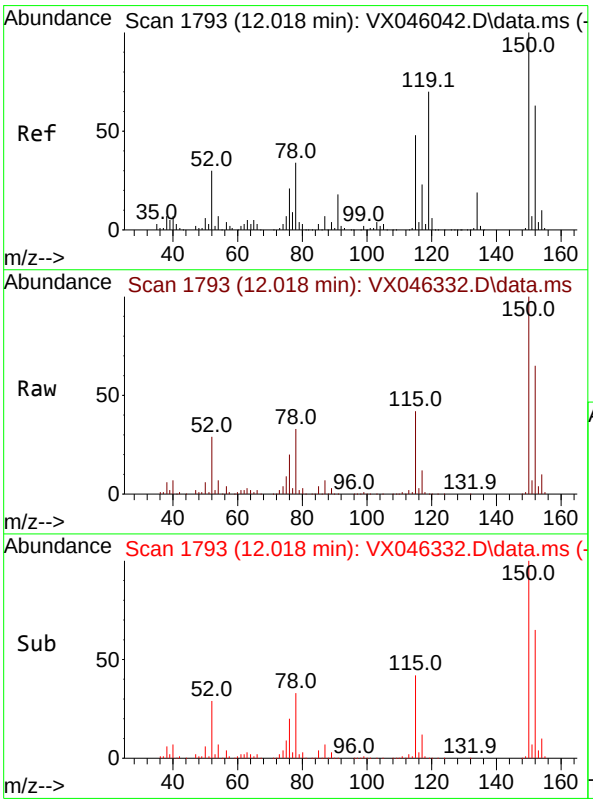

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046332.D
Acq: 23 May 2025 09:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBL01

Tgt Ion:117 Resp: 111918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 62.3 | 50.6 | 76.0 |
| 119 | 32.2 | 25.8 | 38.6 |

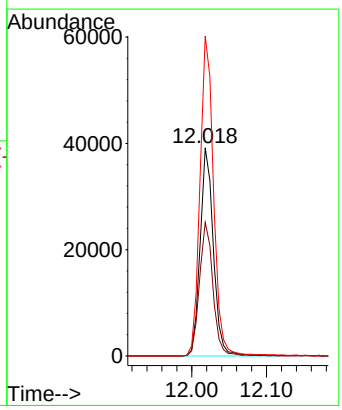



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046332.D
Acq: 23 May 2025 09:53

Tgt Ion:152 Resp: 48375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.2 | 46.9 | 140.7 |
| 150 | 157.5 | 0.0 | 351.0 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | |
| Client Sample ID: | VY0520SBL01 | SDG No.: | Q2075 |
| Lab Sample ID: | VY0520SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022330.D | 1 | | 05/20/25 09:48 | VY052025 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 5.00 | U | 0.79 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 5.00 | U | 0.78 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 5.00 | U | 0.67 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 15.0 | U | 2.02 | 15.0 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 5.00 | U | 0.78 | 5.00 | ug/Kg |
| 103-65-1 | n-propylbenzene | 5.00 | U | 0.73 | 5.00 | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5.00 | U | 0.82 | 5.00 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 5.00 | U | 0.67 | 5.00 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5.00 | U | 0.64 | 5.00 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 5.00 | U | 0.66 | 5.00 | ug/Kg |
| 99-87-6 | p-Isopropyltoluene | 5.00 | U | 0.62 | 5.00 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 5.00 | U | 1.50 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 45.7 | | 63 - 155 | 91% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.3 | | 70 - 134 | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.6 | | 74 - 123 | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.5 | | 38 - 136 | 105% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 254000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 453000 | 8.615 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 356000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 125000 | 13.346 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022330.D
Acq On : 20 May 2025 09:48
Operator : SY/MD
Sample : VY0520SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBL01

Quant Time: May 21 01:43:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

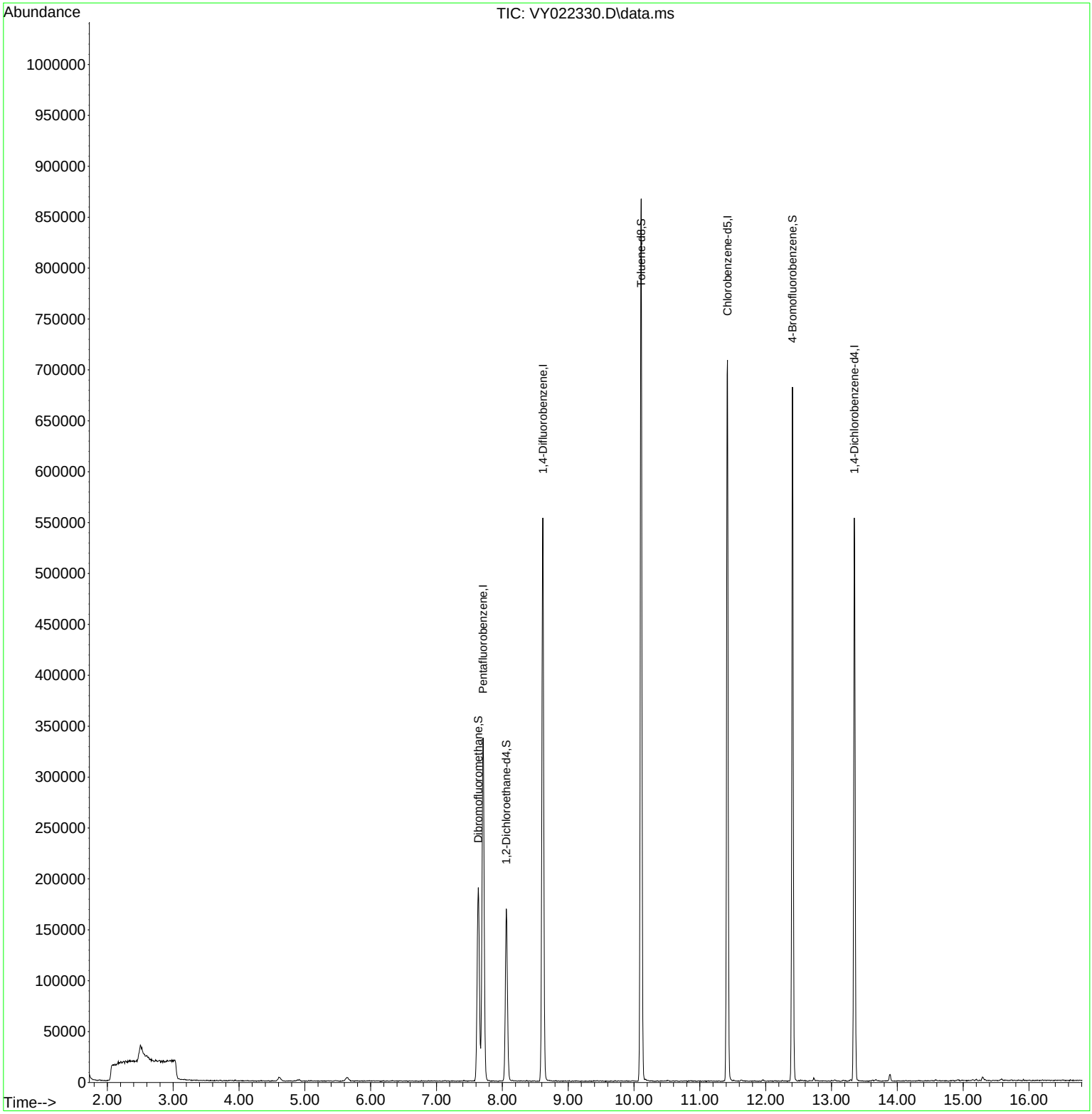
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 253729 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 453295 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 355808 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 124571 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 126632 | 45.666 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 91.340% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 130811 | 48.349 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 96.700% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 538600 | 48.607 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 97.220% | | | |
| 62) 4-Bromofluorobenzene | 12.407 | 95 | 184563 | 52.549 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 105.100% | | | |
| Target Compounds | | | | | | Qvalue |

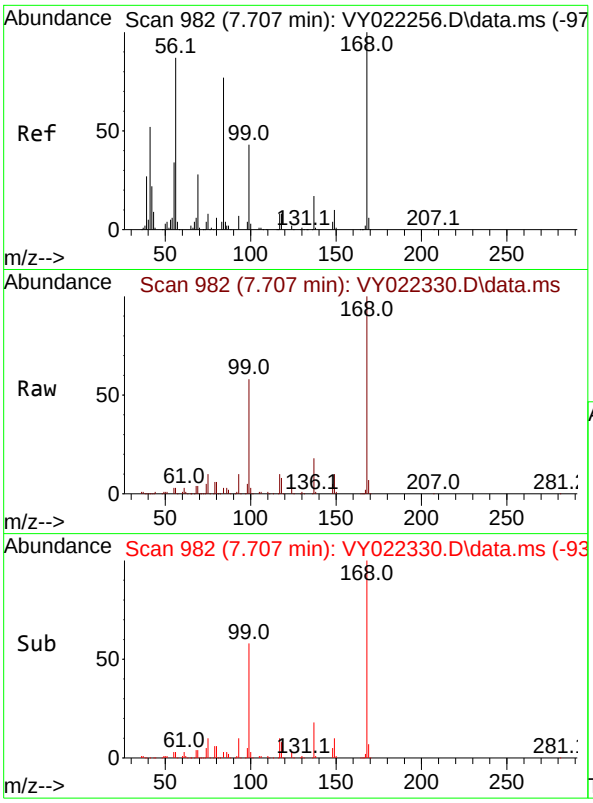
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022330.D
Acq On : 20 May 2025 09:48
Operator : SY/MD
Sample : VY0520SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBL01

Quant Time: May 21 01:43:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



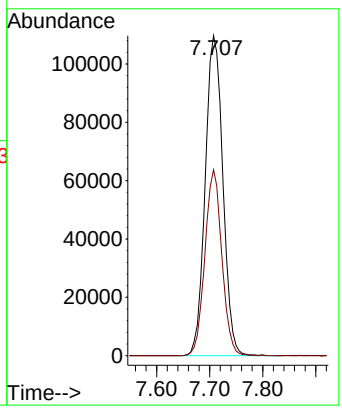


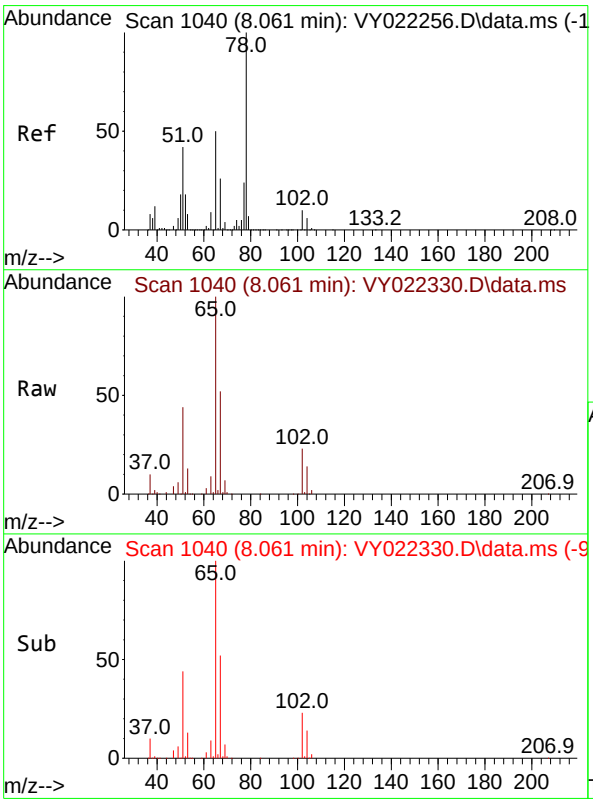

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022330.D
Acq: 20 May 2025 09:48

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBL01

Tgt Ion:168 Resp: 253729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.1 | 44.2 | 66.4 |

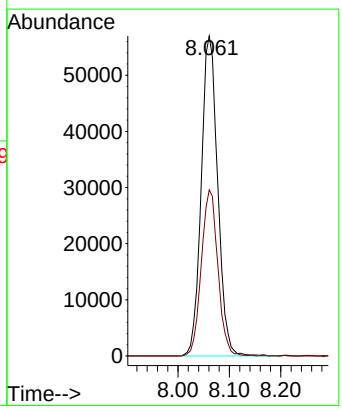


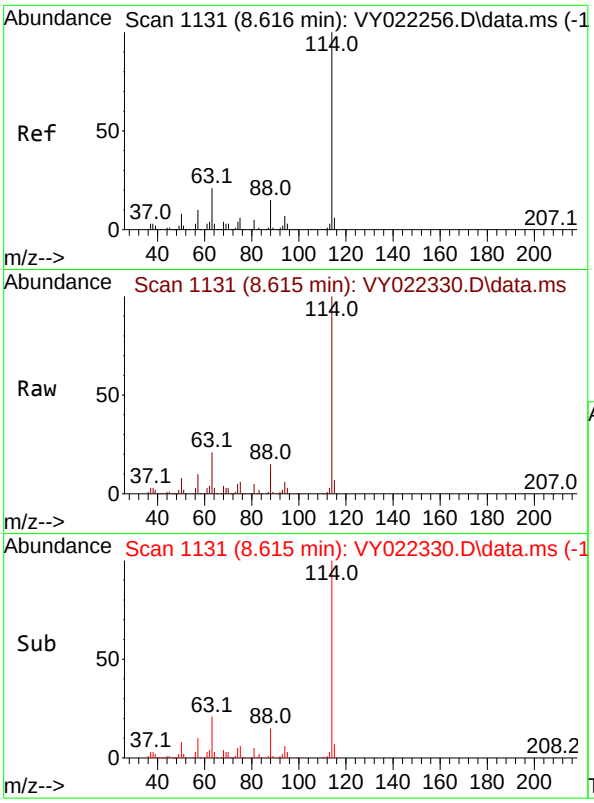




#33
1,2-Dichloroethane-d4
Concen: 45.666 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022330.D
Acq: 20 May 2025 09:48

Tgt Ion: 65 Resp: 126632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.1 | 0.0 | 104.6 |



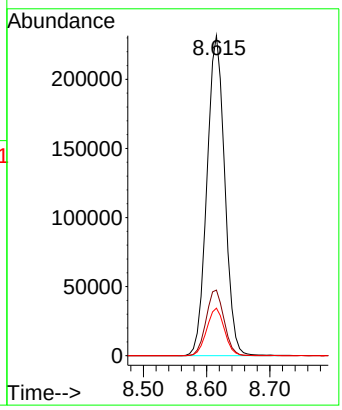


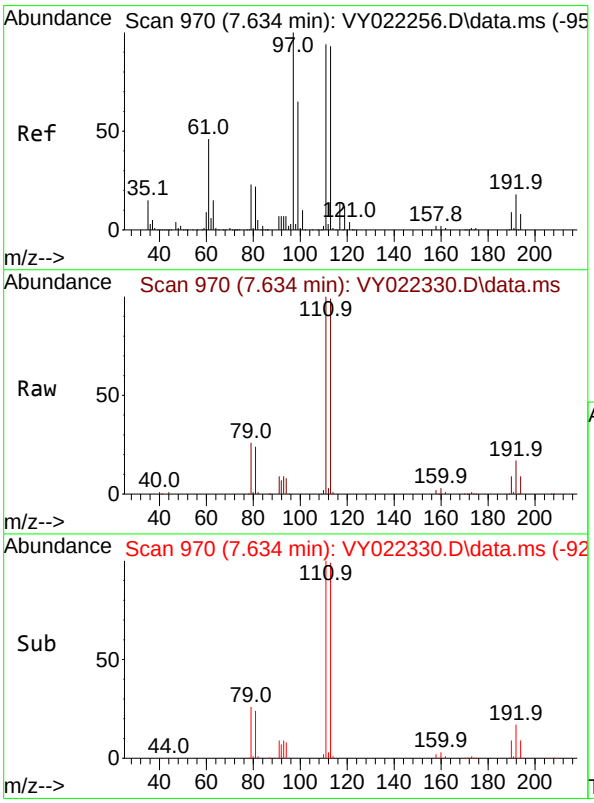

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022330.D
Acq: 20 May 2025 09:48

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBL01

Tgt Ion:114 Resp: 453295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.5 | 0.0 | 41.0 |
| 88 | 14.9 | 0.0 | 29.4 |

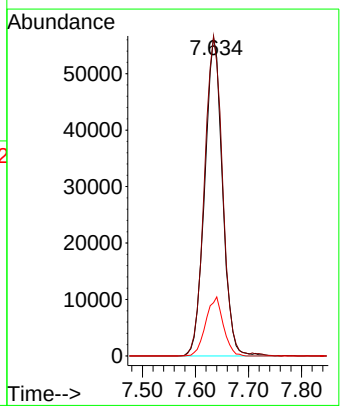


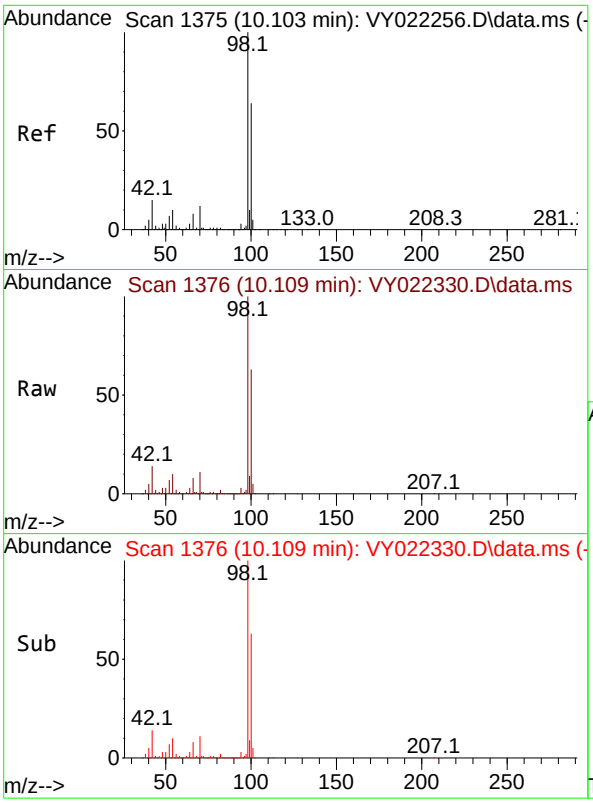




#35
Dibromofluoromethane
Concen: 48.349 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY022330.D
Acq: 20 May 2025 09:48

Tgt Ion:113 Resp: 130811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.3 | 82.6 | 123.8 |
| 192 | 18.4 | 15.2 | 22.8 |



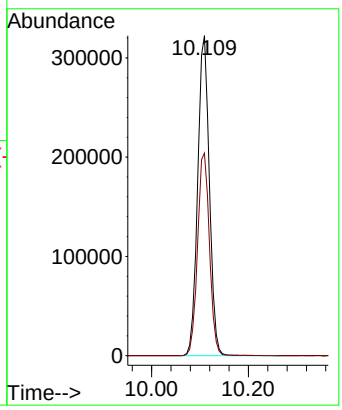


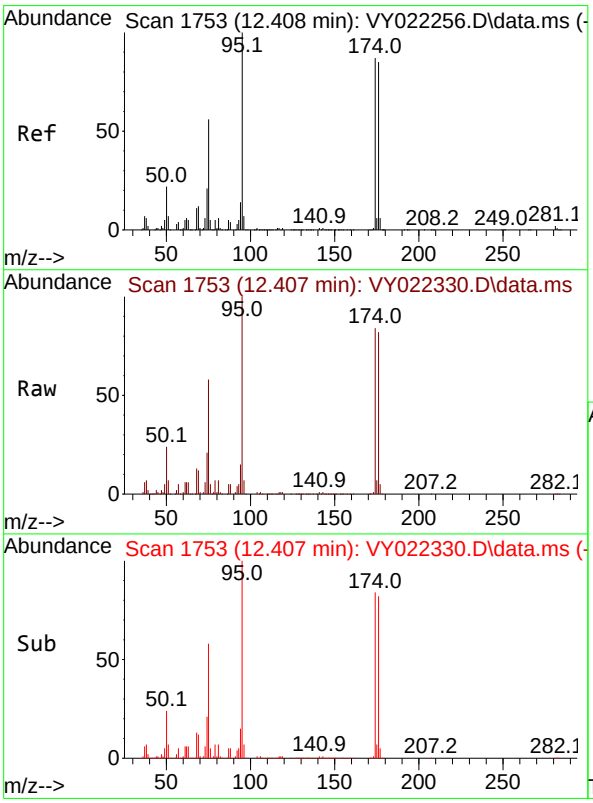

#50
Toluene-d8
Concen: 48.607 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022330.D
Acq: 20 May 2025 09:48

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBL01

Tgt Ion: 98 Resp: 538600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.5 | 51.8 | 77.8 |

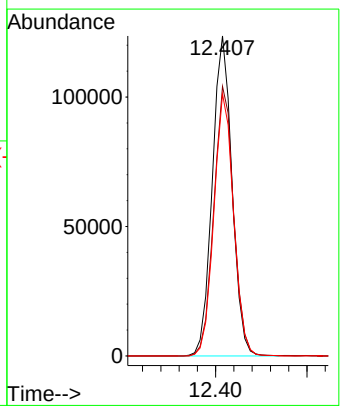


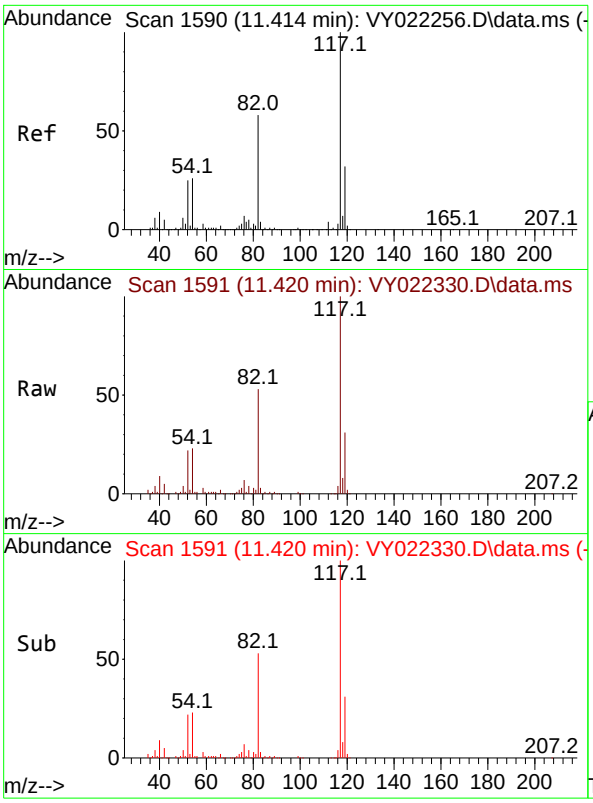




#62
4-Bromofluorobenzene
Concen: 52.549 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022330.D
Acq: 20 May 2025 09:48

Tgt Ion: 95 Resp: 184563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.0 | 0.0 | 166.8 |
| 176 | 81.9 | 0.0 | 160.8 |



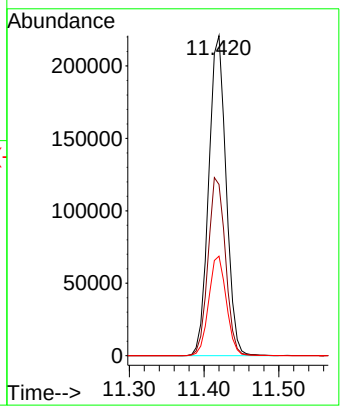


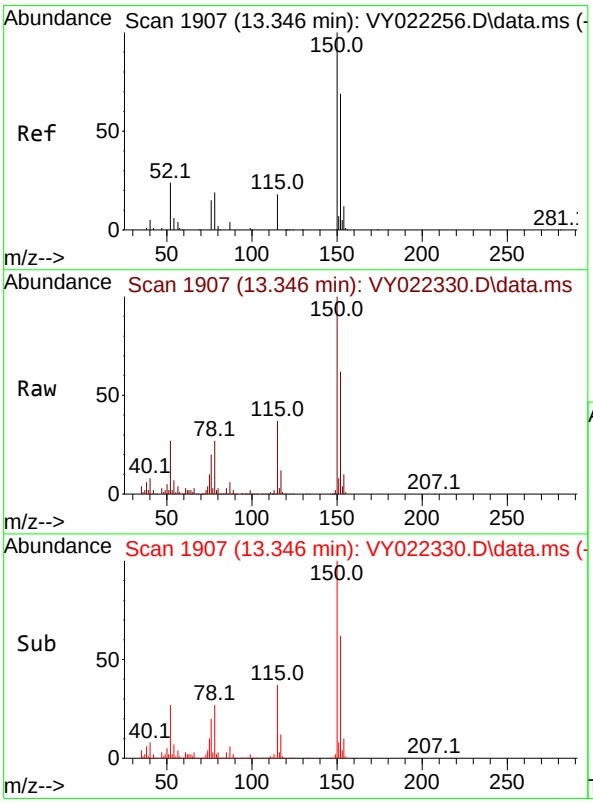

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022330.D
Acq: 20 May 2025 09:48

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBL01

Tgt Ion:117 Resp: 355808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.5 | 46.6 | 70.0 |
| 119 | 31.1 | 25.8 | 38.6 |

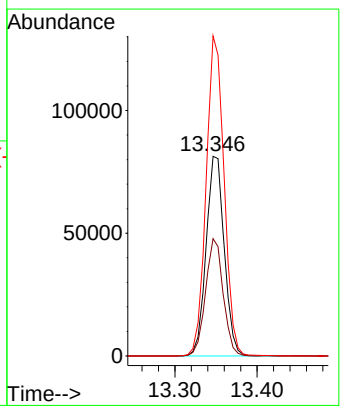



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022330.D
Acq: 20 May 2025 09:48

Tgt Ion:152 Resp: 124571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.1 | 29.4 | 88.2 |
| 150 | 158.5 | 0.0 | 353.8 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | |
| Client Sample ID: | VY0522SBL01 | SDG No.: | Q2075 |
| Lab Sample ID: | VY0522SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022381.D | 1 | | 05/22/25 09:07 | VY052225 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 5.00 | U | 0.79 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 5.00 | U | 0.78 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 5.00 | U | 0.67 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 15.0 | U | 2.02 | 15.0 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 5.00 | U | 0.78 | 5.00 | ug/Kg |
| 103-65-1 | n-propylbenzene | 5.00 | U | 0.73 | 5.00 | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5.00 | U | 0.82 | 5.00 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 5.00 | U | 0.67 | 5.00 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5.00 | U | 0.64 | 5.00 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 5.00 | U | 0.66 | 5.00 | ug/Kg |
| 99-87-6 | p-Isopropyltoluene | 5.00 | U | 0.62 | 5.00 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 5.00 | U | 1.50 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 48.9 | | 63 - 155 | 98% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.8 | | 70 - 134 | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.7 | | 74 - 123 | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 39.5 | | 38 - 136 | 79% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 264000 | 7.719 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 466000 | 8.622 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 376000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 137000 | 13.353 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022381.D
Acq On : 22 May 2025 09:07
Operator : SY/MD
Sample : VY0522SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBL01

Quant Time: May 23 03:31:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 263712 | 50.000 | ug/l | 0.01 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 465826 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 376365 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 137350 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 140906 | 48.890 | ug/l | 0.01 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 97.780% | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 138461 | 49.800 | ug/l | 0.01 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 99.600% | | | |
| 50) Toluene-d8 | 10.115 | 98 | 554254 | 48.674 | ug/l | 0.01 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 97.340% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 142658 | 39.525 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 79.060% | | | |

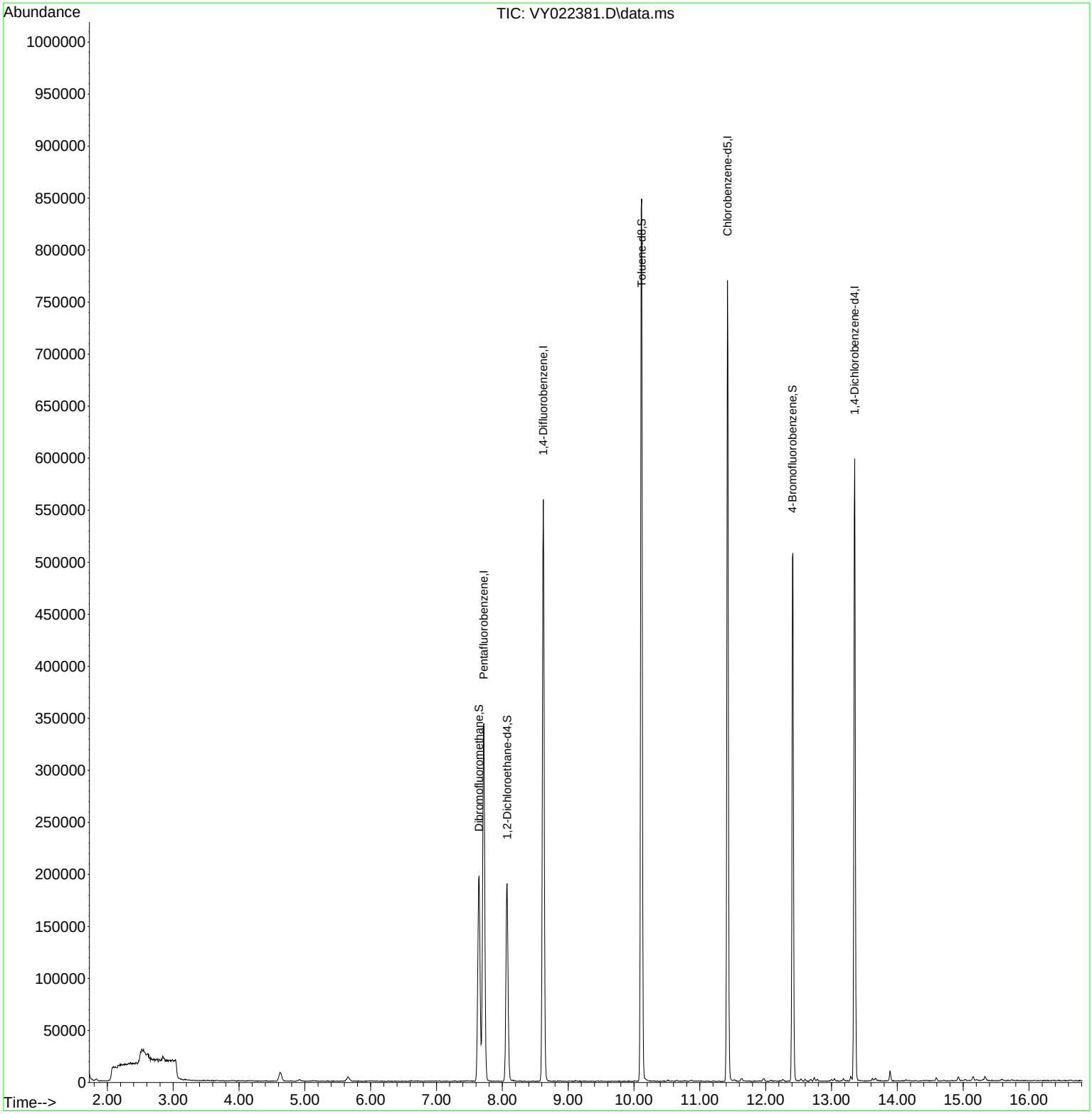
Target Compounds Qvalue

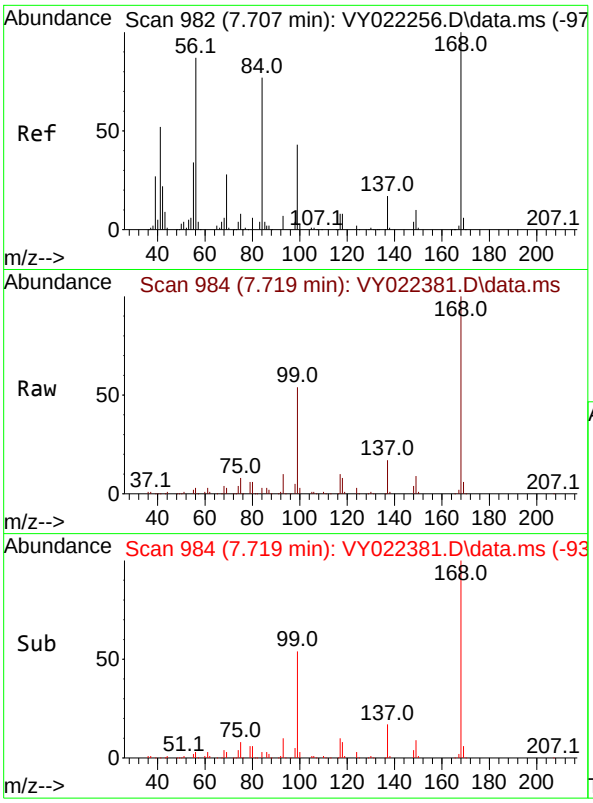
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022381.D
Acq On : 22 May 2025 09:07
Operator : SY/MD
Sample : VY0522SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBL01

Quant Time: May 23 03:31:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



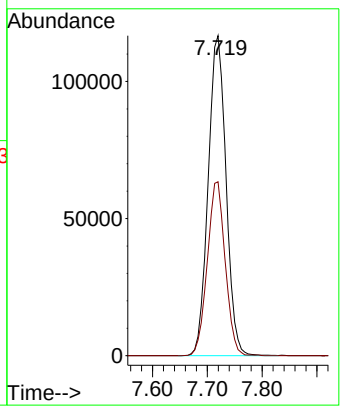


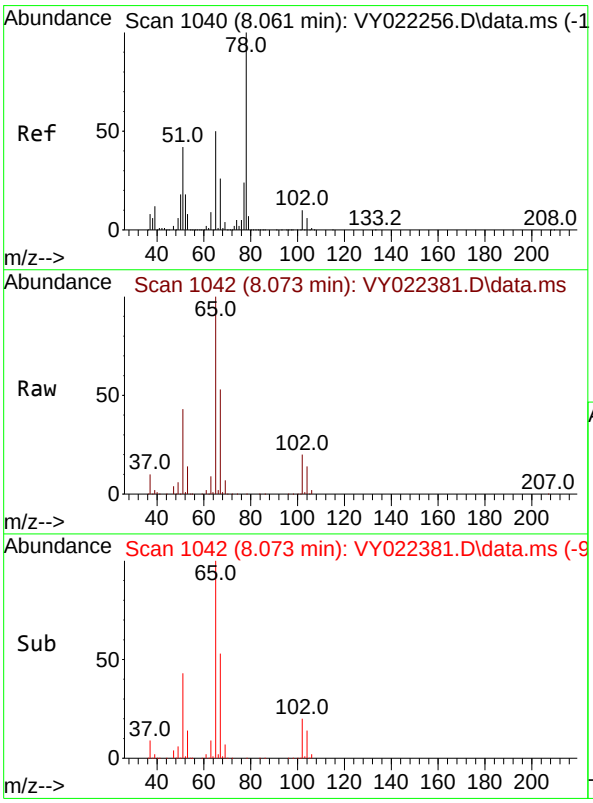

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBL01

Tgt Ion:168 Resp: 263712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.4 | 44.2 | 66.4 |

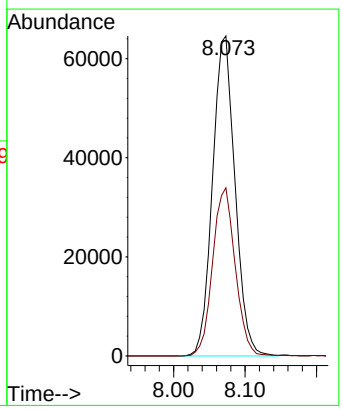


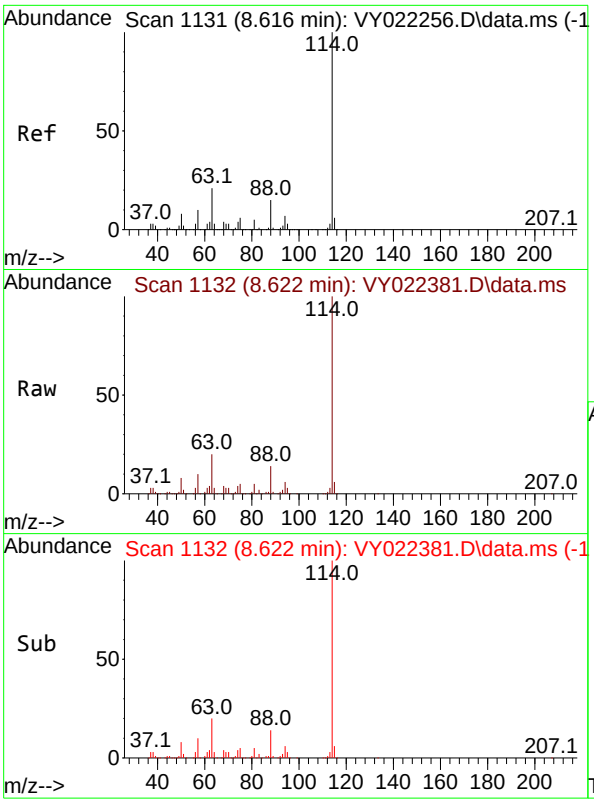




#33
1,2-Dichloroethane-d4
Concen: 48.890 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Tgt Ion: 65 Resp: 140906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.0 | 0.0 | 104.6 |



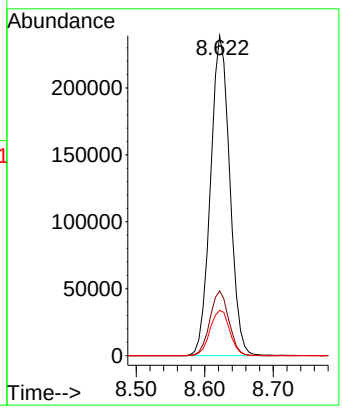


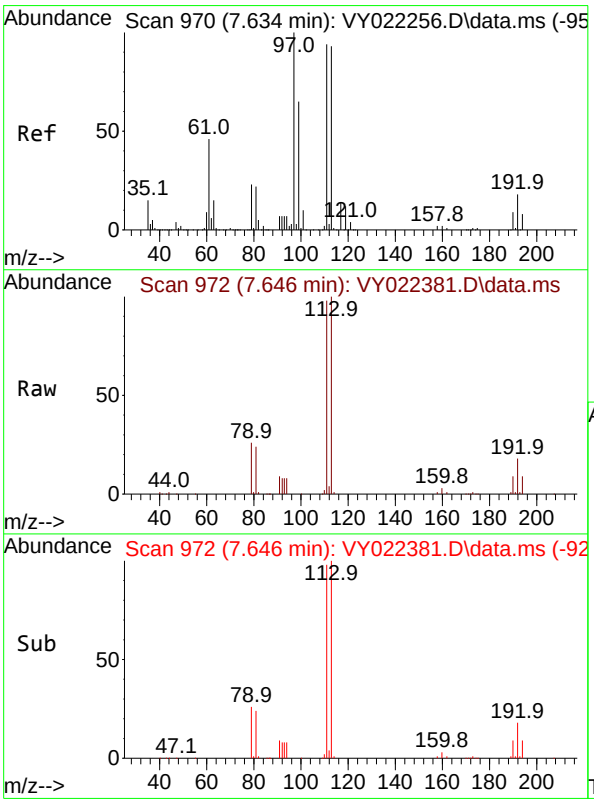

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBL01

Tgt Ion:114 Resp: 465826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.2 | 0.0 | 41.0 |
| 88 | 14.1 | 0.0 | 29.4 |

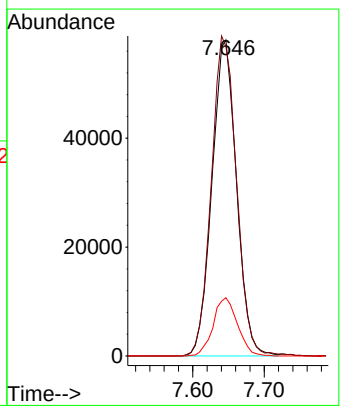


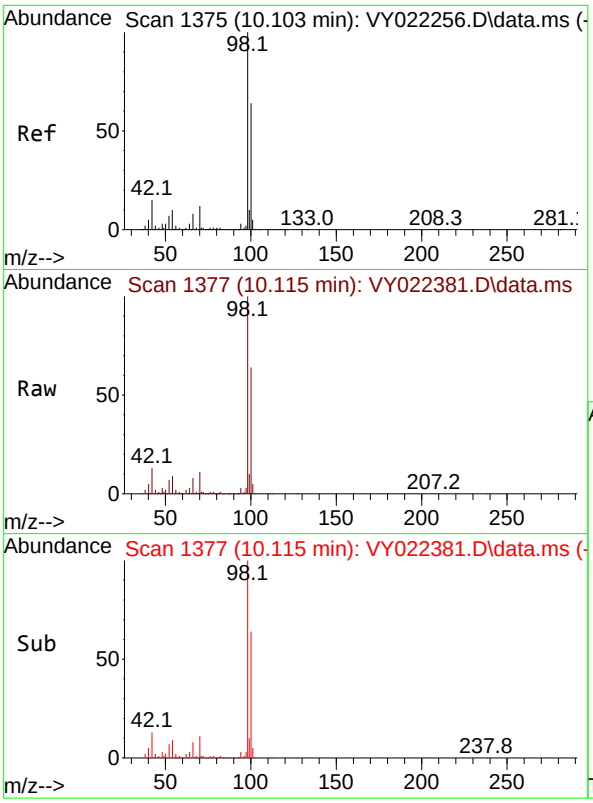




#35
Dibromofluoromethane
Concen: 49.800 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Tgt Ion:113 Resp: 138461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.6 | 82.6 | 123.8 |
| 192 | 18.2 | 15.2 | 22.8 |



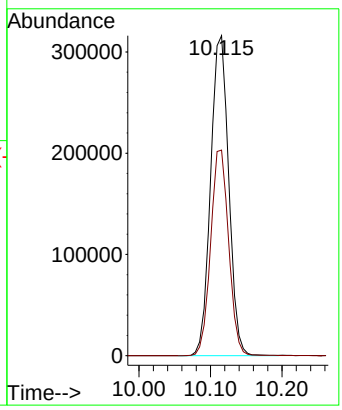


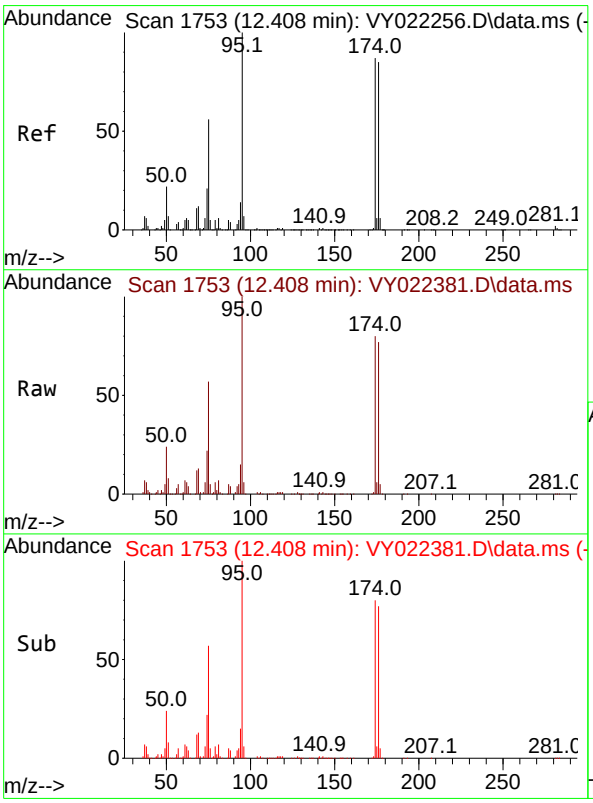

#50
Toluene-d8
Concen: 48.674 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBL01

Tgt Ion: 98 Resp: 554254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.2 | 51.8 | 77.8 |

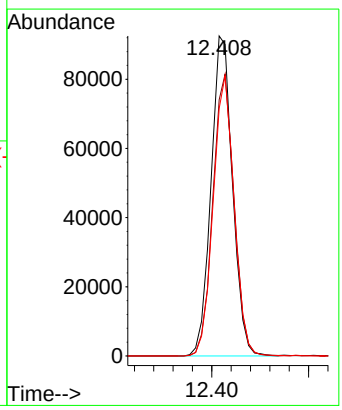


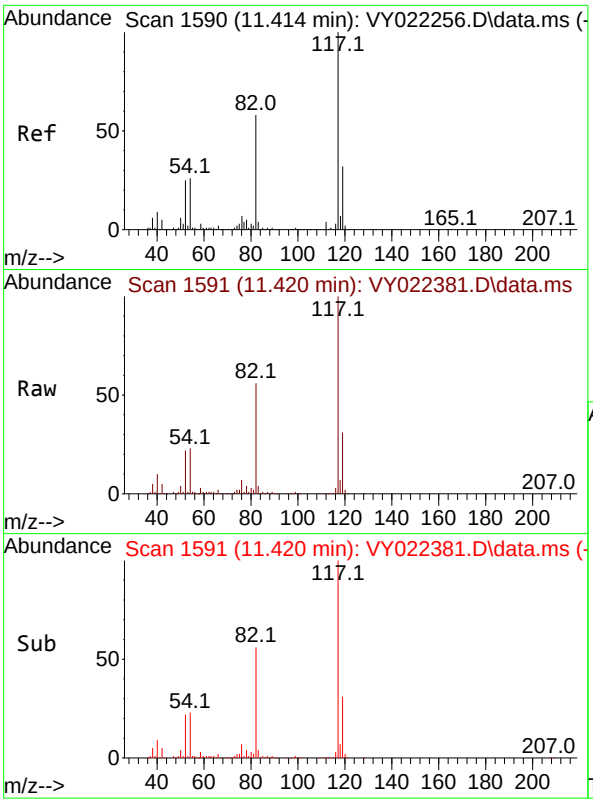




#62
4-Bromofluorobenzene
Concen: 39.525 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Tgt Ion: 95 Resp: 142658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.8 | 0.0 | 166.8 |
| 176 | 85.2 | 0.0 | 160.8 |



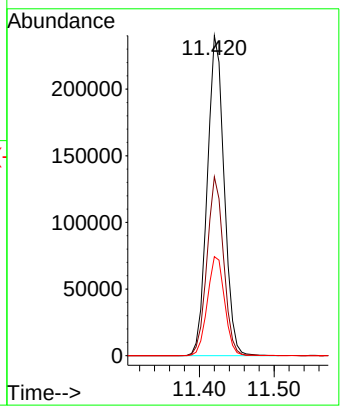


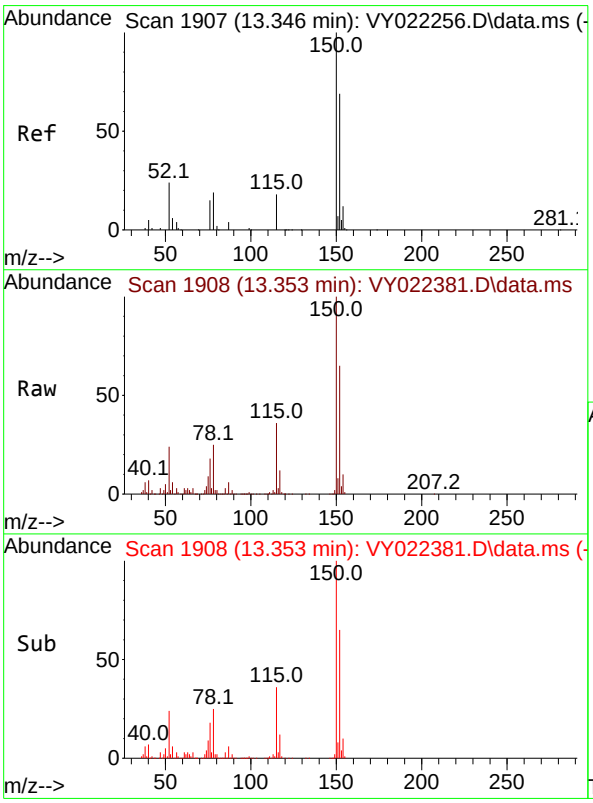

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBL01

Tgt Ion:117 Resp: 376365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.9 | 46.6 | 70.0 |
| 119 | 31.0 | 25.8 | 38.6 |

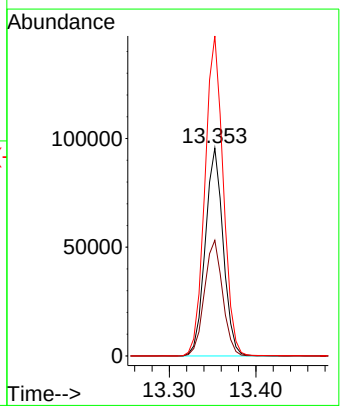



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Tgt Ion:152 Resp: 137350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.5 | 29.4 | 88.2 |
| 150 | 157.1 | 0.0 | 353.8 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | |
| Client Sample ID: | VX0521WBS01 | SDG No.: | Q2075 |
| Lab Sample ID: | VX0521WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046287.D | 1 | | 05/21/25 11:09 | VX052125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 20.3 | | 0.15 | 1.00 | ug/L |
| 108-88-3 | Toluene | 20.5 | | 0.14 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 20.1 | | 0.13 | 1.00 | ug/L |
| 1330-20-7 | Total Xylenes | 61.2 | | 0.36 | 3.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 20.4 | | 0.12 | 1.00 | ug/L |
| 103-65-1 | n-propylbenzene | 20.4 | | 0.13 | 1.00 | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | 21.1 | | 0.15 | 1.00 | ug/L |
| 98-06-6 | tert-Butylbenzene | 20.2 | | 0.14 | 1.00 | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | 20.7 | | 0.14 | 1.00 | ug/L |
| 135-98-8 | sec-Butylbenzene | 20.3 | | 0.13 | 1.00 | ug/L |
| 99-87-6 | p-Isopropyltoluene | 20.5 | | 0.13 | 1.00 | ug/L |
| 104-51-8 | n-Butylbenzene | 19.7 | | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.7 | | 74 - 125 | 107% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.3 | | 75 - 124 | 109% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.4 | | 86 - 113 | 105% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 55.0 | | 77 - 121 | 110% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 83100 | 5.544 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 147000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 130000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 62700 | 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\VX052125\
Data File : VX046287.D
Acq On : 21 May 2025 11:09
Operator : JC/MD
Sample : VX0521WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 22 01:45:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 83102 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 146697 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 130479 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 62651 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 83120 | 53.650 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 107.300% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 57372 | 54.310 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 108.620% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 191524 | 52.383 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 104.760% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 77180 | 55.031 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 110.060% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 25585 | 20.115 | ug/l | 99 |
| 3) Chloromethane | 1.307 | 50 | 24302 | 19.702 | ug/l | 96 |
| 4) Vinyl Chloride | 1.374 | 62 | 21796 | 18.987 | ug/l | 100 |
| 5) Bromomethane | 1.593 | 94 | 10421 | 19.572 | ug/l | 100 |
| 6) Chloroethane | 1.666 | 64 | 12767 | 20.833 | ug/l | 97 |
| 7) Trichlorofluoromethane | 1.874 | 101 | 34095 | 20.096 | ug/l | 98 |
| 8) Diethyl Ether | 2.136 | 74 | 10749 | 18.611 | ug/l | 90 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 20578 | 19.599 | ug/l | 97 |
| 10) Methyl Iodide | 2.441 | 142 | 22245 | 17.906 | ug/l | 98 |
| 11) Tert butyl alcohol | 2.983 | 59 | 23847 | 109.655 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 2.307 | 96 | 18532 | 18.807 | ug/l | 93 |
| 13) Acrolein | 2.239 | 56 | 25808 | 104.204 | ug/l | 99 |
| 14) Allyl chloride | 2.660 | 41 | 38072 | 20.216 | ug/l | 98 |
| 15) Acrylonitrile | 3.062 | 53 | 66609 | 107.114 | ug/l | 99 |
| 16) Acetone | 2.386 | 43 | 63974 | 102.986 | ug/l | 100 |
| 17) Carbon Disulfide | 2.502 | 76 | 36554 | 15.647 | ug/l | 99 |
| 18) Methyl Acetate | 2.703 | 43 | 35517 | 24.639 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 3.117 | 73 | 71064 | 20.570 | ug/l | 99 |
| 20) Methylene Chloride | 2.782 | 84 | 23422 | 19.676 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 19275 | 19.451 | ug/l | 99 |
| 22) Diisopropyl ether | 3.764 | 45 | 76439 | 21.013 | ug/l | 97 |
| 23) Vinyl Acetate | 3.721 | 43 | 322692 | 100.856 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 42066 | 20.762 | ug/l | 99 |
| 25) 2-Butanone | 4.562 | 43 | 97290 | 107.880 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 31778 | 20.038 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 23744 | 19.904 | ug/l | 97 |
| 28) Bromochloromethane | 4.891 | 49 | 22159 | 22.721 | ug/l | 99 |
| 29) Tetrahydrofuran | 5.007 | 42 | 60349 | 106.791 | ug/l | 98 |
| 30) Chloroform | 5.093 | 83 | 44097 | 20.880 | ug/l | 99 |
| 31) Cyclohexane | 5.458 | 56 | 34669 | 18.777 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 5.379 | 97 | 37552 | 20.513 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 5.690 | 75 | 27419 | 19.318 | ug/l | 99 |
| 37) Ethyl Acetate | 4.721 | 43 | 34479 | 19.662 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 32466 | 20.358 | ug/l | 97 |
| 39) Methylcyclohexane | 7.373 | 83 | 33218 | 18.179 | ug/l | 93 |
| 40) Benzene | 6.031 | 78 | 84417 | 20.305 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046287.D
Acq On : 21 May 2025 11:09
Operator : JC/MD
Sample : VX0521WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 22 01:45:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.922 | 41 | 20114 | 21.927 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.086 | 62 | 37731 | 21.028 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.342 | 43 | 55970 | 20.922 | ug/l | | 99 |
| 44) Trichloroethene | 7.123 | 130 | 20154 | 20.142 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 7.428 | 63 | 21399 | 20.700 | ug/l | | 97 |
| 46) Dibromomethane | 7.580 | 93 | 16727 | 20.515 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.818 | 83 | 33537 | 20.884 | ug/l | | 94 |
| 48) Methyl methacrylate | 7.696 | 41 | 29912 | 21.893 | ug/l | | 96 |
| 49) 1,4-Dioxane | 7.665 | 88 | 11979 | 461.769 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 197911 | 111.451 | ug/l | | 97 |
| 52) Toluene | 8.714 | 92 | 52243 | 20.494 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 28454 | 19.935 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 32181 | 20.399 | ug/l | | 93 |
| 55) 1,1,2-Trichloroethane | 9.153 | 97 | 21758 | 21.646 | ug/l | | 98 |
| 56) Ethyl methacrylate | 9.116 | 69 | 34485 | 21.526 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 37670 | 20.867 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 90048 | 110.253 | ug/l | | 98 |
| 59) 2-Hexanone | 9.427 | 43 | 146892 | 111.809 | ug/l | | 98 |
| 60) Dibromochloromethane | 9.519 | 129 | 23698 | 21.467 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 9.610 | 107 | 21985 | 21.044 | ug/l | | 97 |
| 64) Tetrachloroethene | 9.269 | 164 | 18888 | 20.459 | ug/l | | 92 |
| 65) Chlorobenzene | 10.079 | 112 | 56582 | 19.813 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 19817 | 20.321 | ug/l | | 97 |
| 67) Ethyl Benzene | 10.189 | 91 | 101041 | 20.071 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 74216 | 40.309 | ug/l | | 96 |
| 69) o-Xylene | 10.640 | 106 | 37483 | 20.882 | ug/l | | 99 |
| 70) Styrene | 10.653 | 104 | 62320 | 21.194 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 14595 | 19.934 | ug/l | # | 96 |
| 73) Isopropylbenzene | 10.963 | 105 | 99407 | 20.380 | ug/l | | 100 |
| 74) N-amyl acetate | 10.842 | 43 | 48670 | 20.193 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 34915 | 20.427 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 30189m | 20.019 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 22971 | 20.285 | ug/l | | 99 |
| 78) n-propylbenzene | 11.299 | 91 | 115726 | 20.405 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 74331 | 20.320 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 85859 | 21.070 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 8934 | 19.287 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 83363 | 20.550 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.713 | 119 | 82945 | 20.208 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 85525 | 20.726 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 102551 | 20.349 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 85338 | 20.514 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 42301 | 20.468 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 41784 | 19.797 | ug/l | | 98 |
| 89) n-Butylbenzene | 12.329 | 91 | 71724 | 19.656 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 14306 | 19.520 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 42574 | 20.529 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 7860 | 20.757 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 22376 | 18.785 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 10458 | 20.103 | ug/l | | 97 |
| 95) Naphthalene | 13.774 | 128 | 83835 | 19.190 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 24092 | 19.602 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046287.D
Acq On : 21 May 2025 11:09
Operator : JC/MD
Sample : VX0521WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 22 01:45:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

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

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

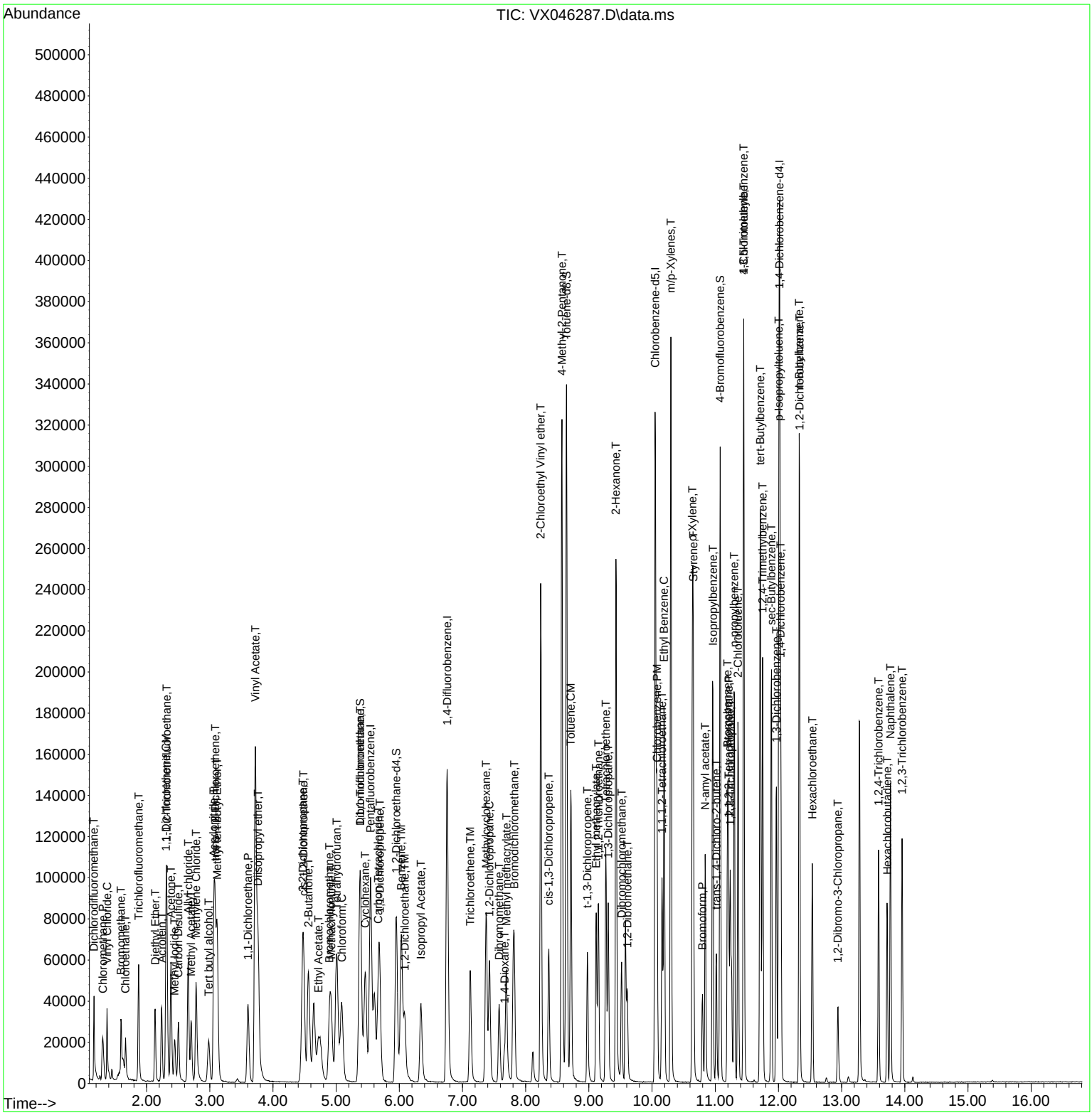
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046287.D
Acq On : 21 May 2025 11:09
Operator : JC/MD
Sample : VX0521WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

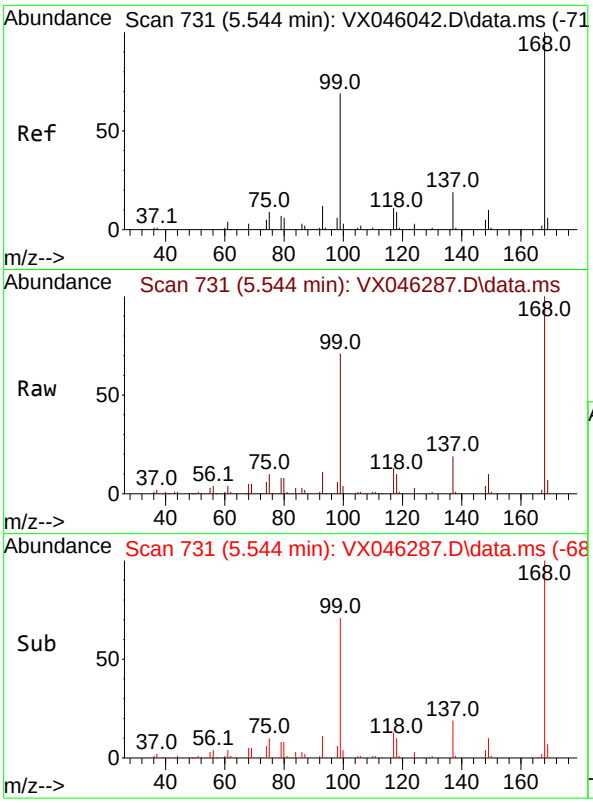
Quant Time: May 22 01:45:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

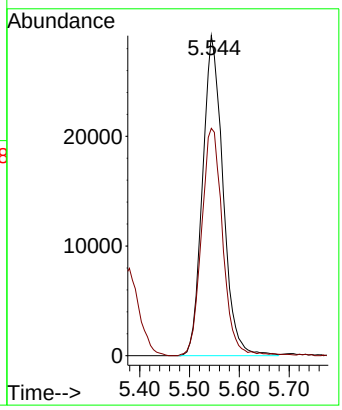





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:168 Resp: 8310

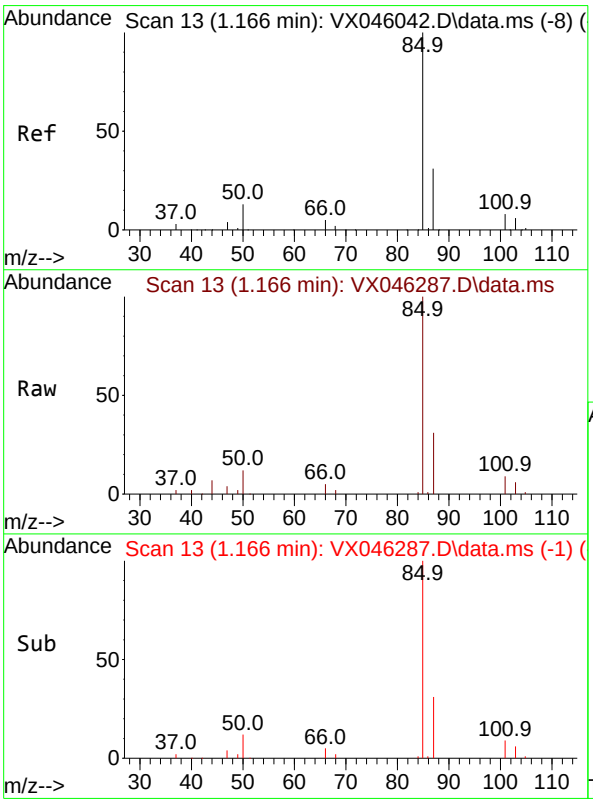
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 71.1 | 54.9 | 82.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
**APPROVED**

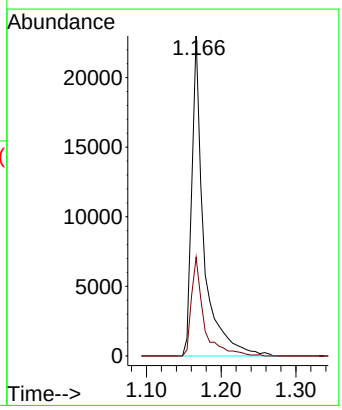
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

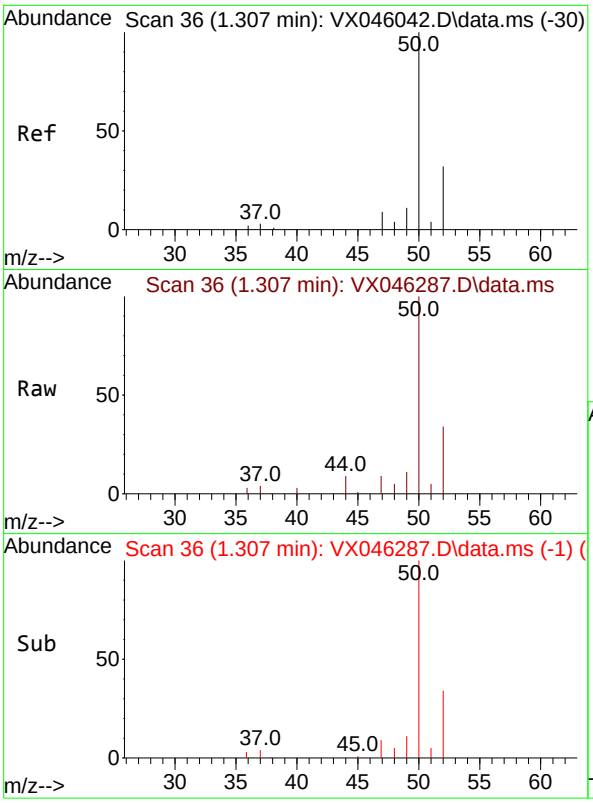



#2
Dichlorodifluoromethane
Concen: 20.115 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 85 Resp: 25585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 30.9 | 15.7 | 47.1 |

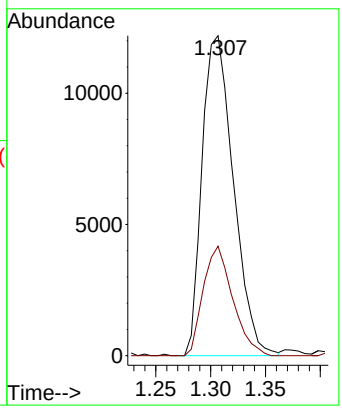





#3
Chloromethane
Concen: 19.702 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 50 Resp: 2430

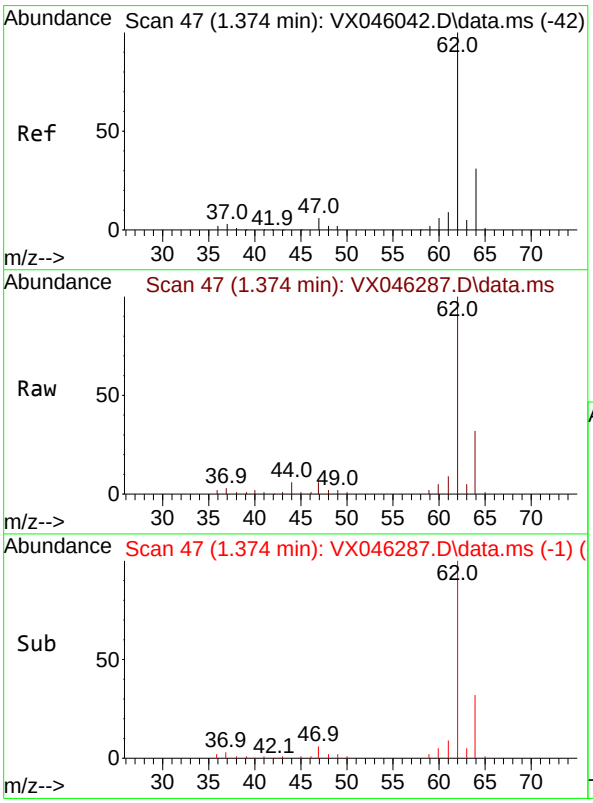
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.2 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
**APPROVED**

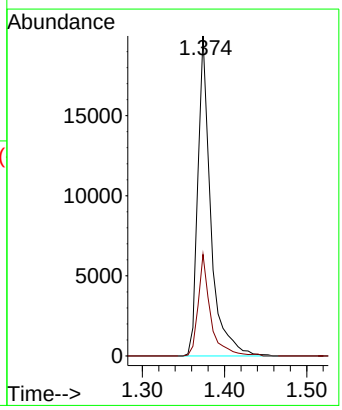
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

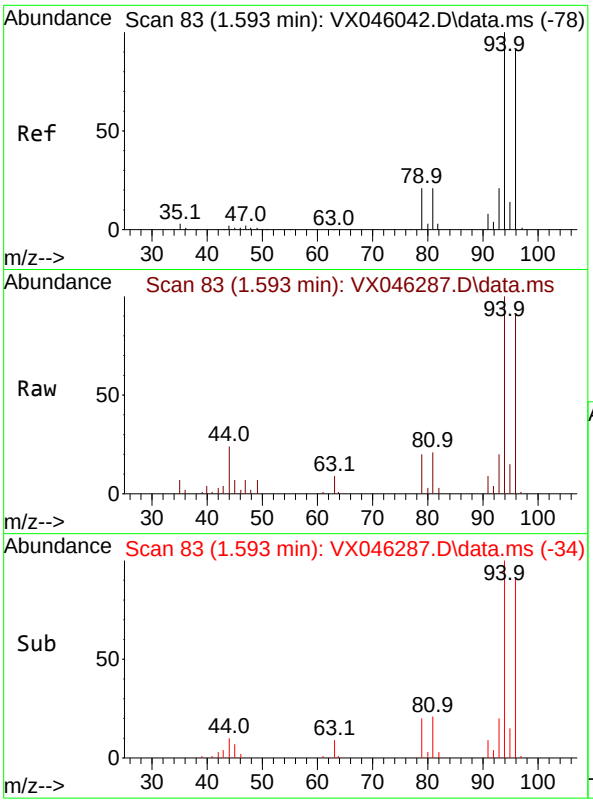



#4
Vinyl Chloride
Concen: 18.987 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 62 Resp: 21796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 25.2 | 37.8 |

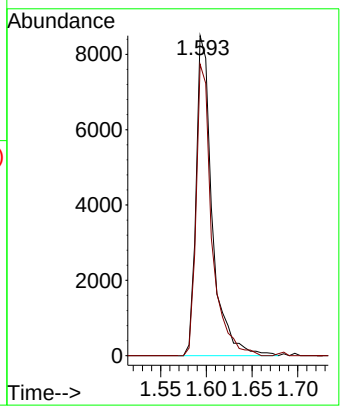





#5
Bromomethane
Concen: 19.572 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 94 Resp: 1042

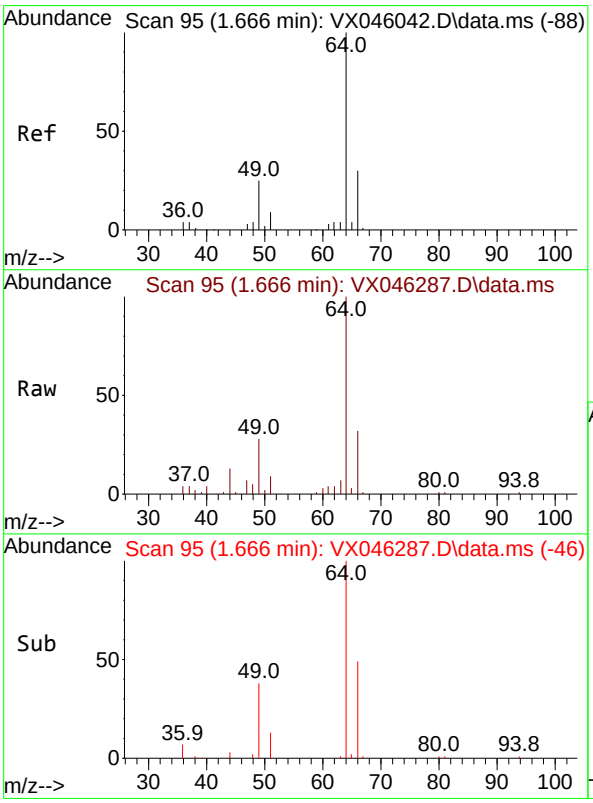
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.0 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
**APPROVED**

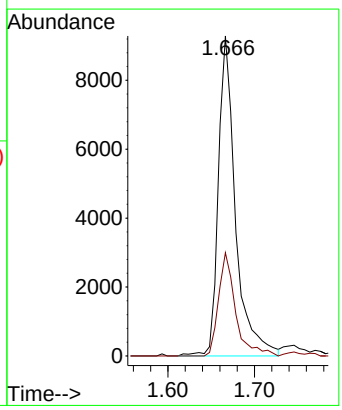
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

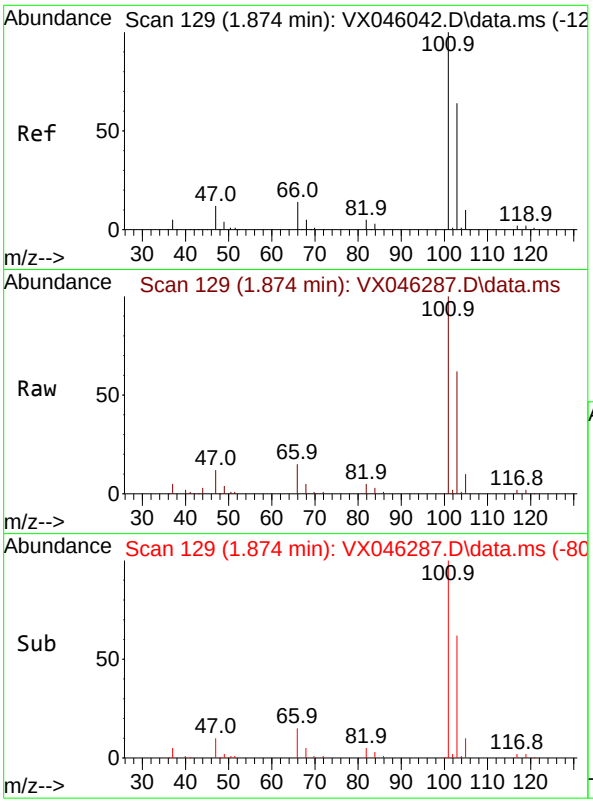



#6
Chloroethane
Concen: 20.833 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 64 Resp: 12767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.2 | 24.3 | 36.5 |

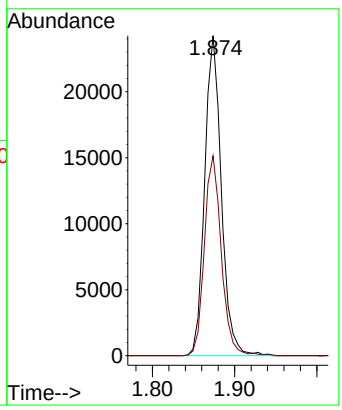





#7
Trichlorofluoromethane
Concen: 20.096 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:101 Resp: 3409

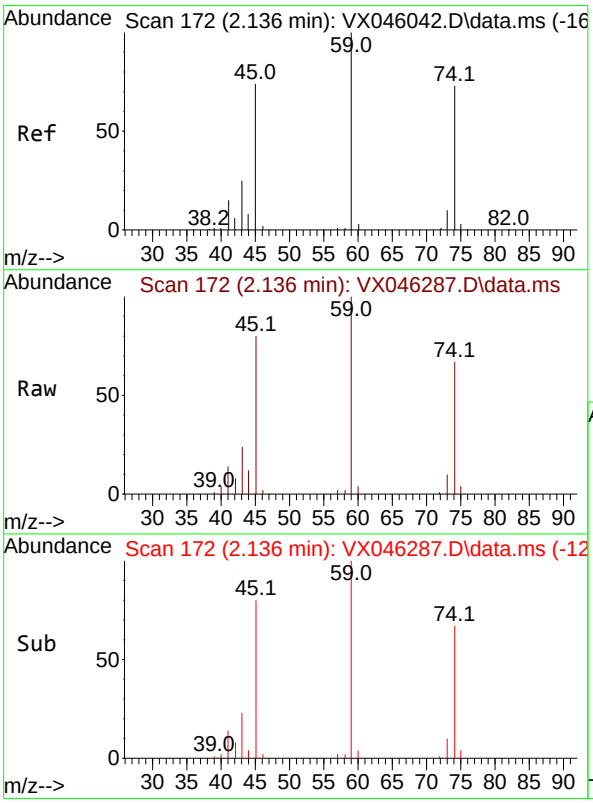
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.5 | 51.0 | 76.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
**APPROVED**

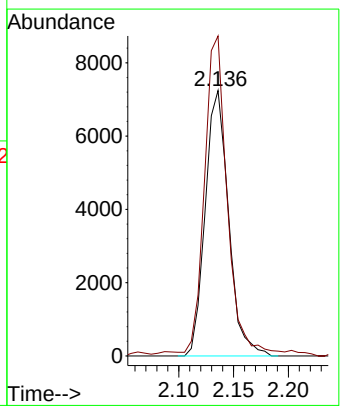
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

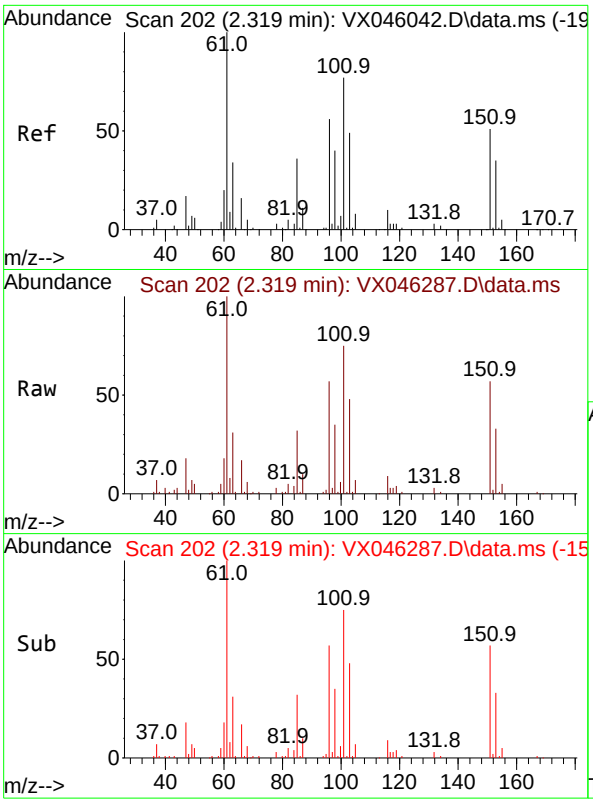



#8
Diethyl Ether
Concen: 18.611 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 74 Resp: 10749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 120.9 | 54.9 | 164.8 |

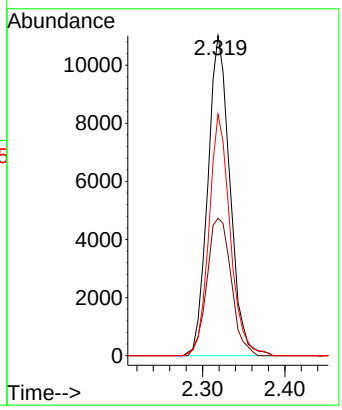





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.599 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:101 Resp: 2057

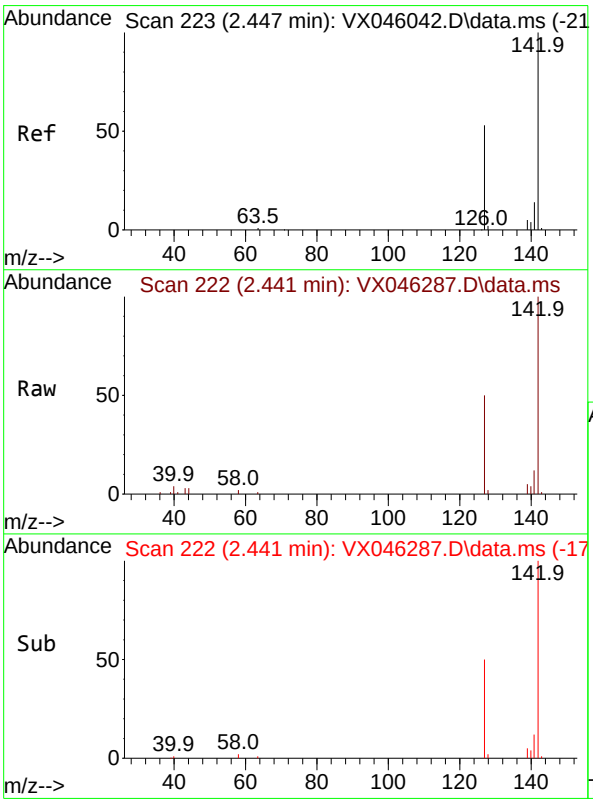
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.0 | 38.6 | 58.0 |
| 151 | 72.4 | 55.2 | 82.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations APPROVED**

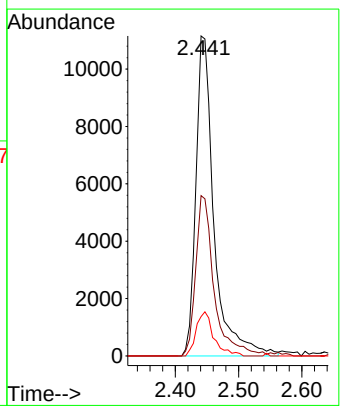
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

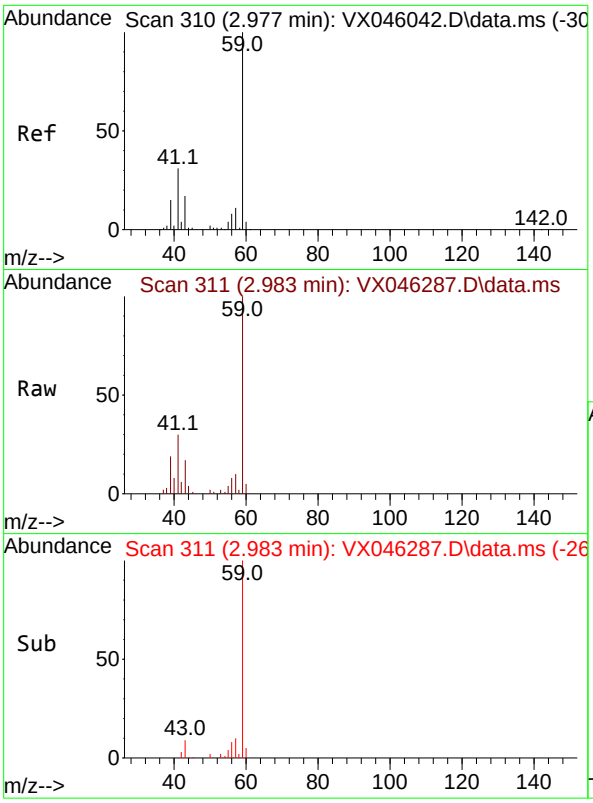



#10
Methyl Iodide
Concen: 17.906 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:142 Resp: 22245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 51.0 | 41.7 | 62.5 |
| 141 | 13.4 | 11.5 | 17.3 |

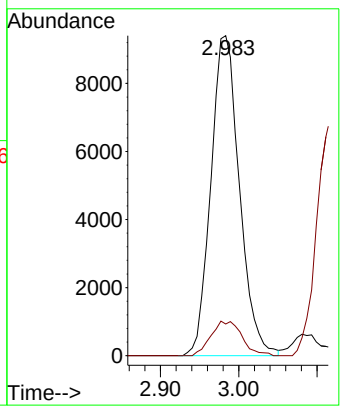





#11
Tert butyl alcohol
Concen: 109.655 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 59 Resp: 2384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.7 | 8.6 | 12.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
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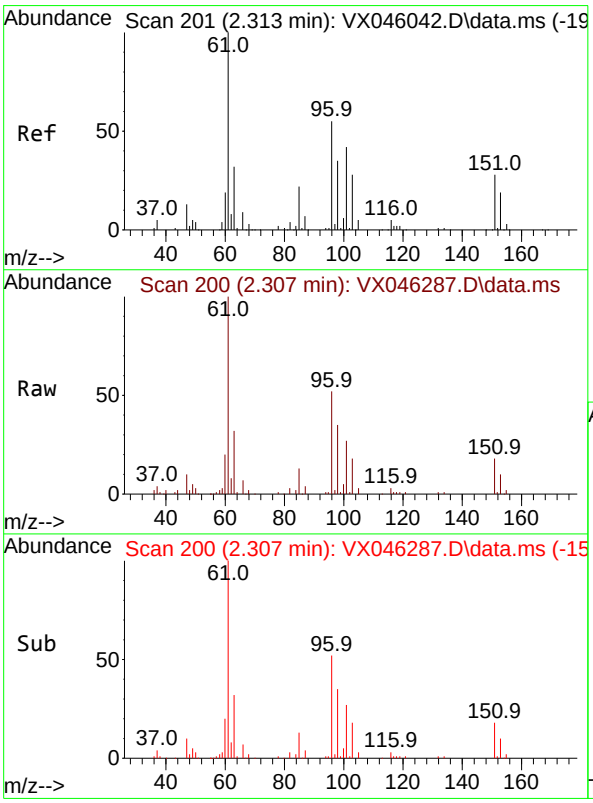
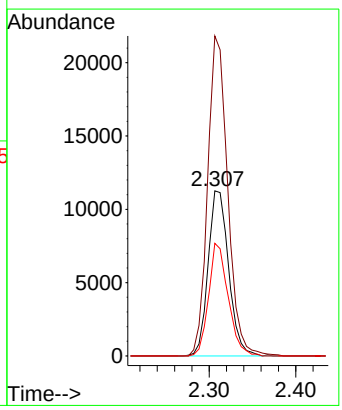
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

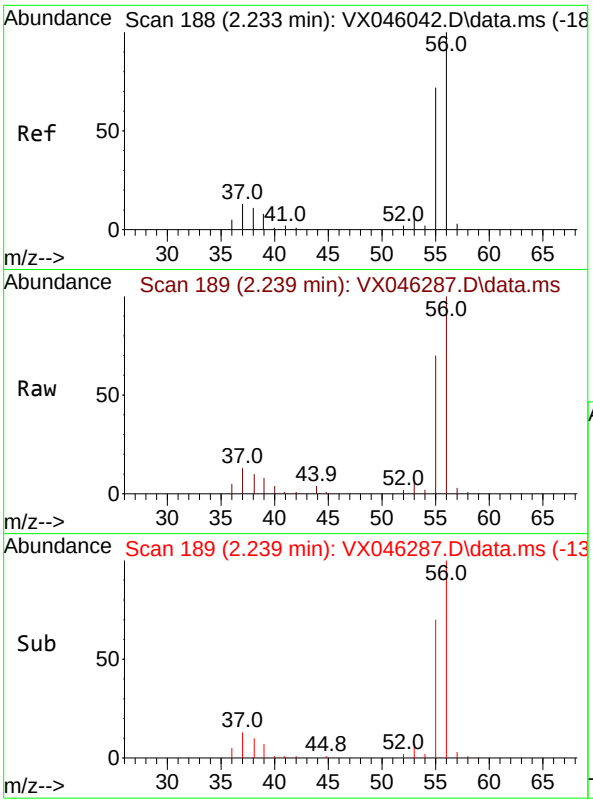



#12
1,1-Dichloroethene
Concen: 18.807 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 96 Resp: 18532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 193.7 | 146.2 | 219.2 |
| 98 | 68.2 | 51.0 | 76.6 |

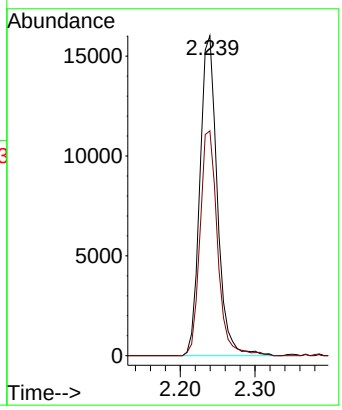





#13
Acrolein
Concen: 104.204 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 56 Resp: 2580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.1 | 56.2 | 84.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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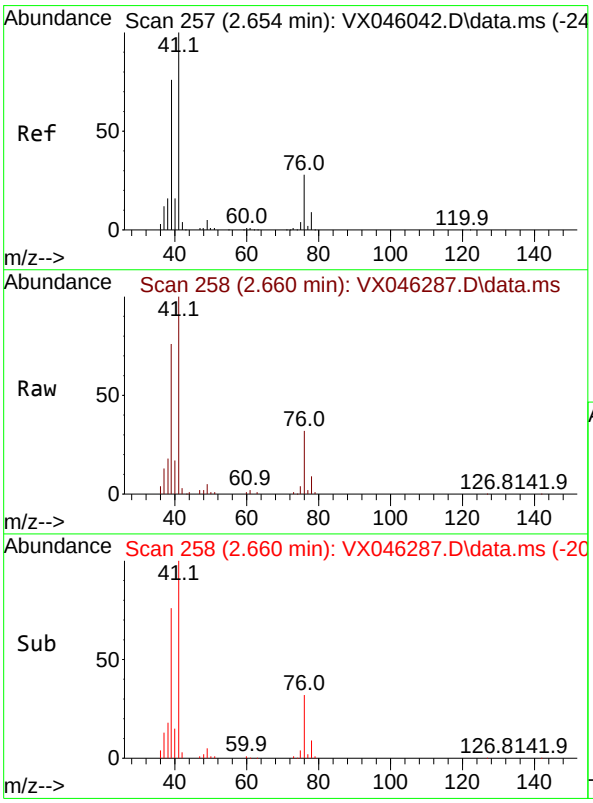
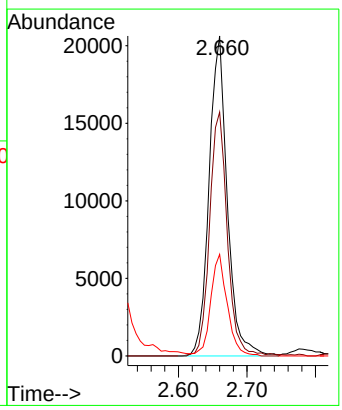
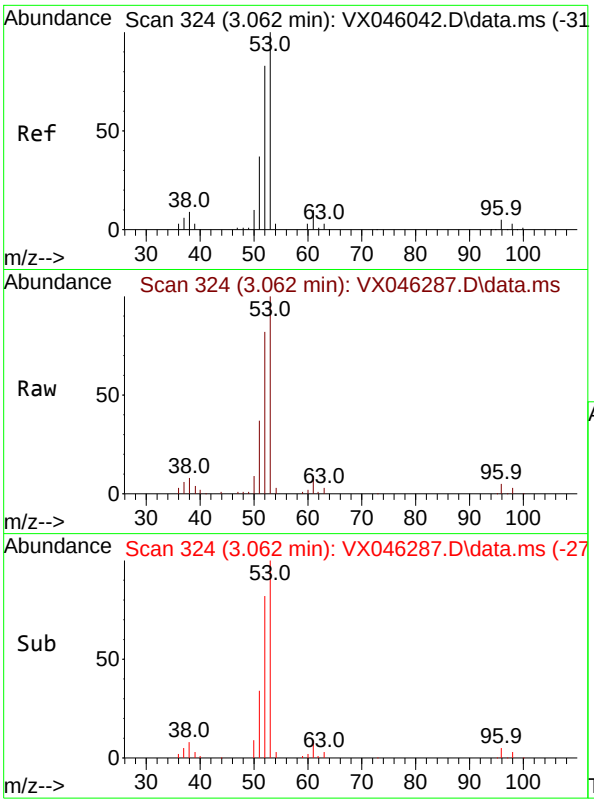



#14
Allyl chloride
Concen: 20.216 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 41 Resp: 38072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 74.1 | 60.6 | 90.8 |
| 76 | 28.9 | 24.9 | 37.3 |

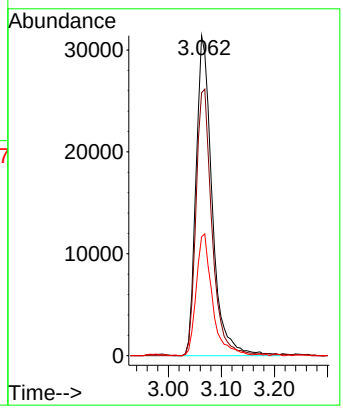





#15
Acrylonitrile
Concen: 107.114 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 53 Resp: 6660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.3 | 65.3 | 97.9 |
| 51 | 38.0 | 29.8 | 44.8 |




**Instrument :**
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VX0521WBS01

**Manual Integrations**
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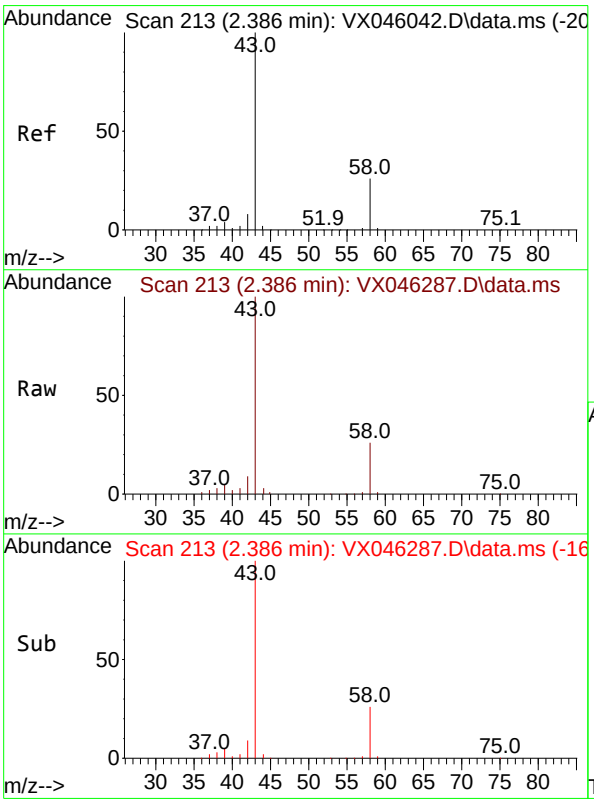
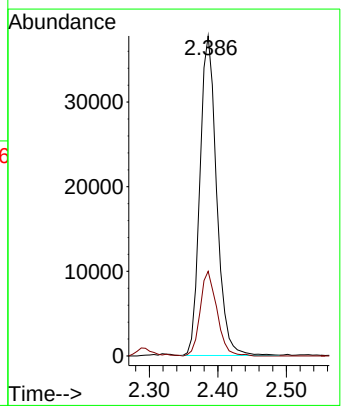
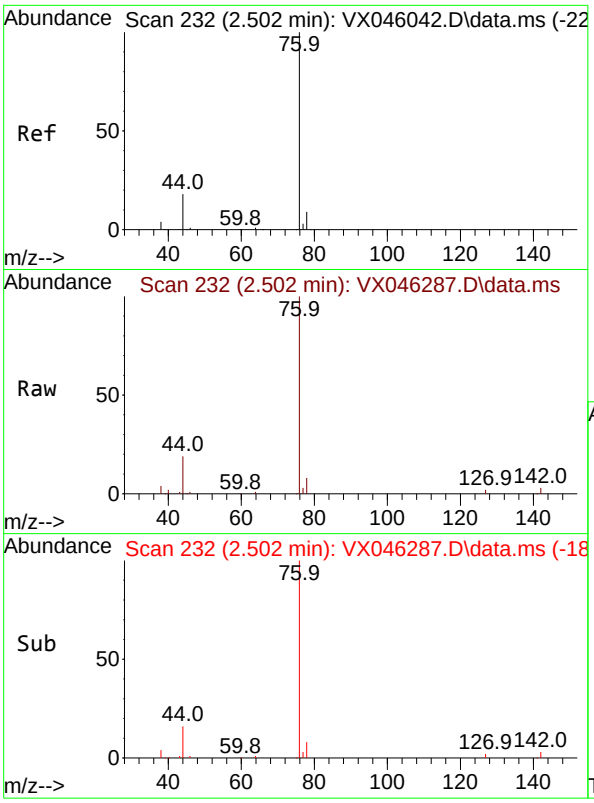



#16
Acetone
Concen: 102.986 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 43 Resp: 63974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.5 | 21.2 | 31.8 |

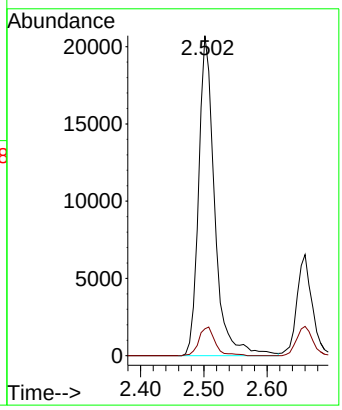





#17
Carbon Disulfide
Concen: 15.647 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 76 Resp: 3655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.4 | 7.0 | 10.4 |




**Instrument :**
MSVOA_X
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VX0521WBS01

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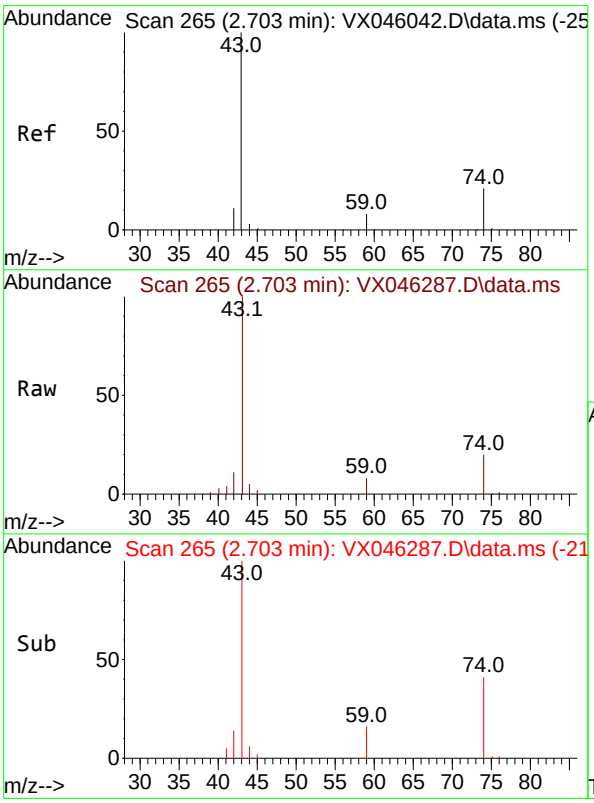
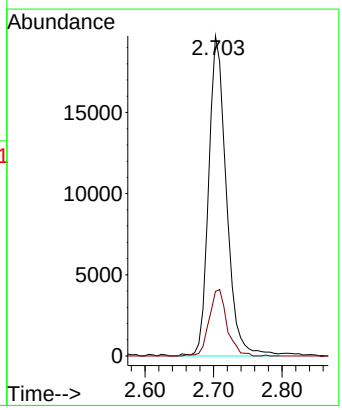
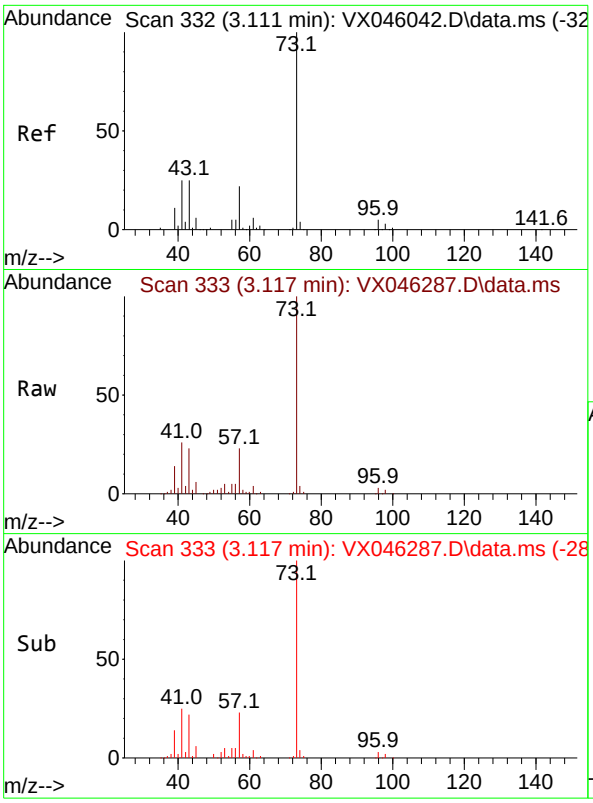



#18
Methyl Acetate
Concen: 24.639 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 43 Resp: 35517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 20.9 | 16.7 | 25.1 |

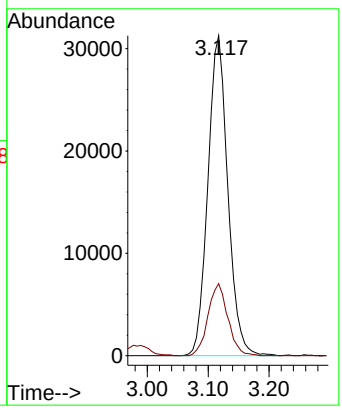





#19
Methyl tert-butyl Ether
Concen: 20.570 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 73 Resp: 7106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.5 | 17.7 | 26.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

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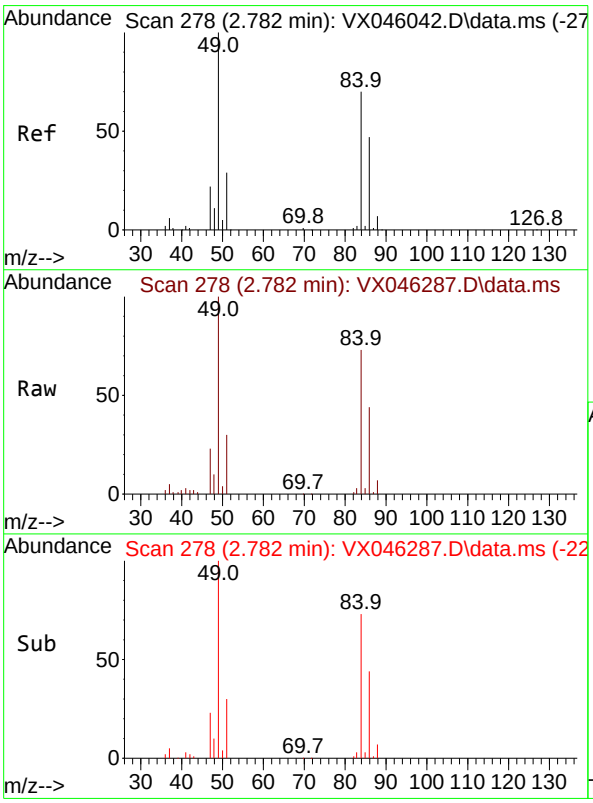
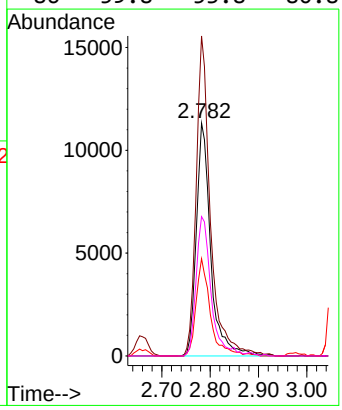
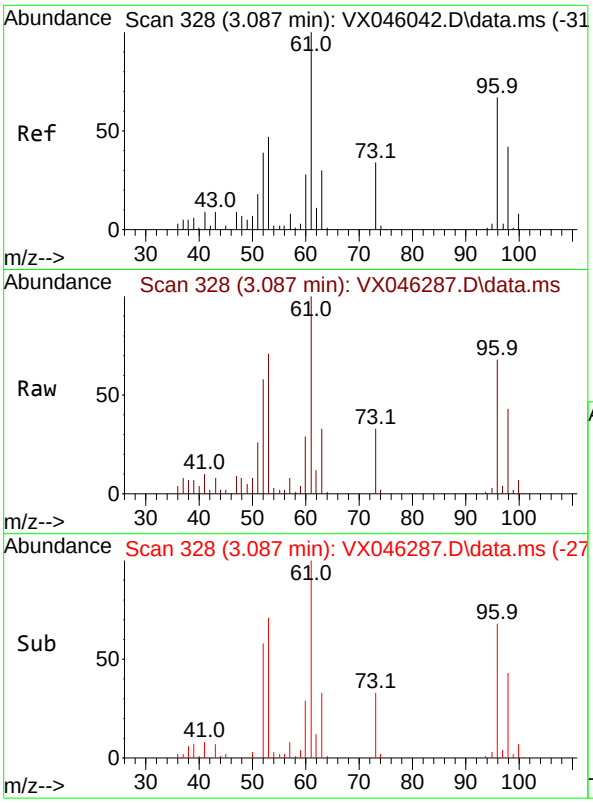



#20
Methylene Chloride
Concen: 19.676 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 84 Resp: 23422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 137.5 | 113.9 | 170.9 |
| 51 | 41.8 | 33.5 | 50.3 |
| 86 | 59.8 | 53.8 | 80.8 |

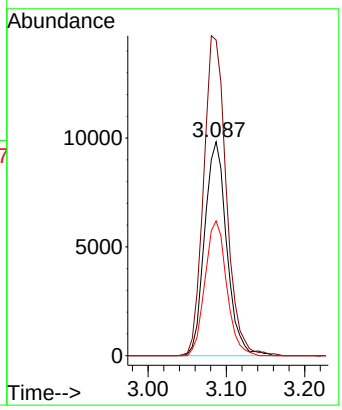





#21
trans-1,2-Dichloroethene
Concen: 19.451 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 96 Resp: 1927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.6 | 119.5 | 179.3 |
| 98 | 63.0 | 50.0 | 75.0 |




**Instrument :**
MSVOA_X
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VX0521WBS01

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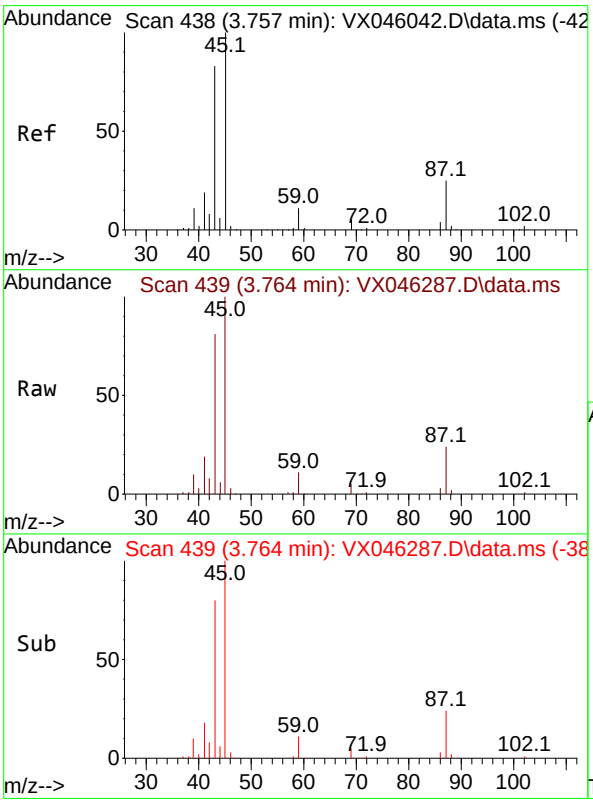
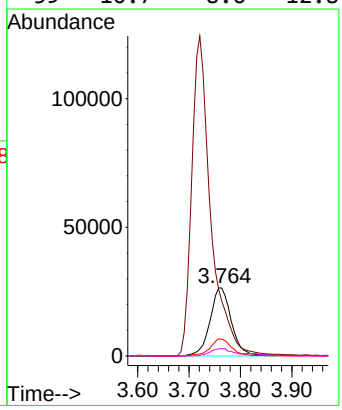
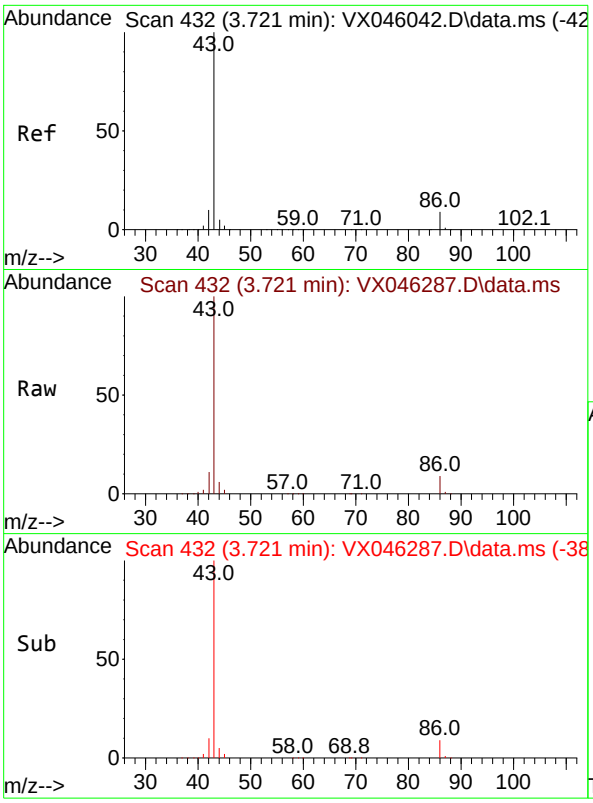



#22
Diisopropyl ether
Concen: 21.013 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 45 Resp: 76439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 79.7 | 66.6 | 100.0 |
| 87 | 24.5 | 19.8 | 29.6 |
| 59 | 10.7 | 8.6 | 12.8 |






#23
Vinyl Acetate
Concen: 100.856 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 43 Resp: 32269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.1 | 7.5 | 11.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

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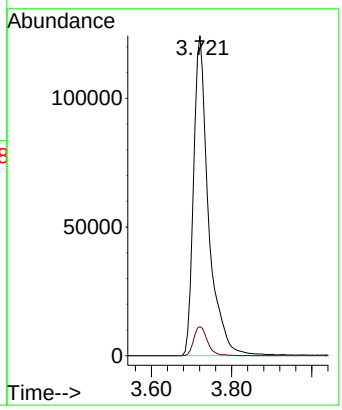
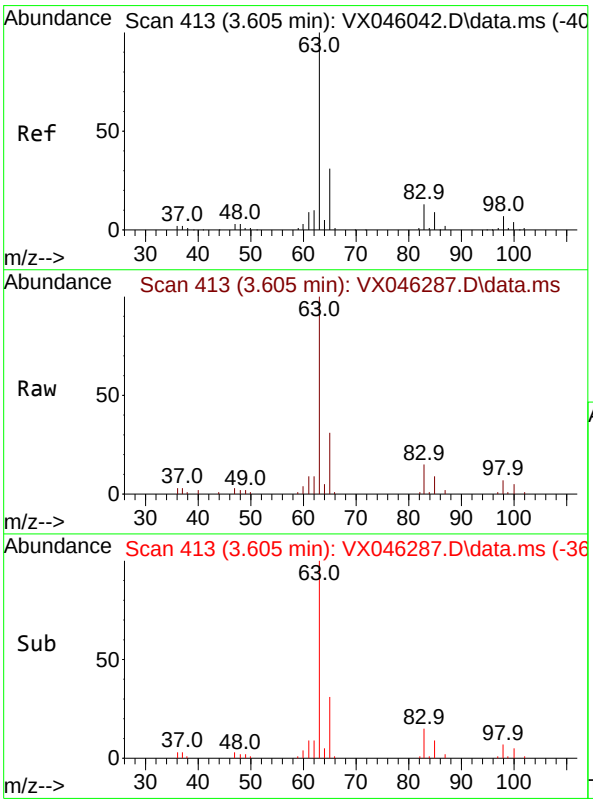
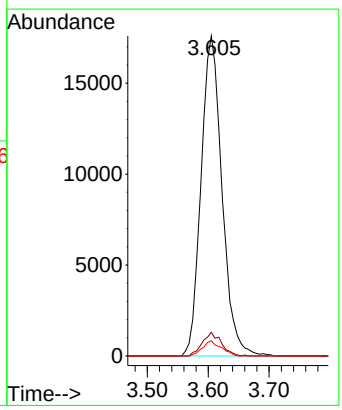


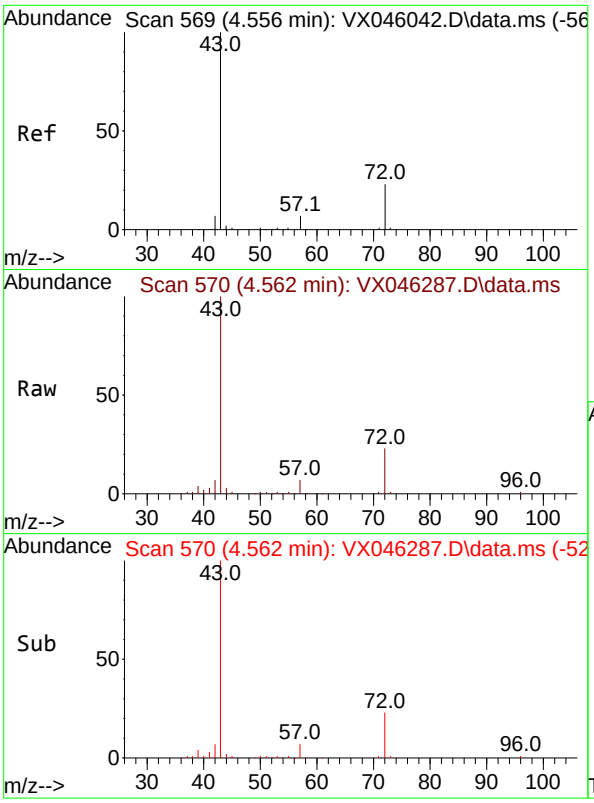




#24
1,1-Dichloroethane
Concen: 20.762 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 63 Resp: 42066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.6 | 10.8 |
| 100 | 4.8 | 2.1 | 6.3 |

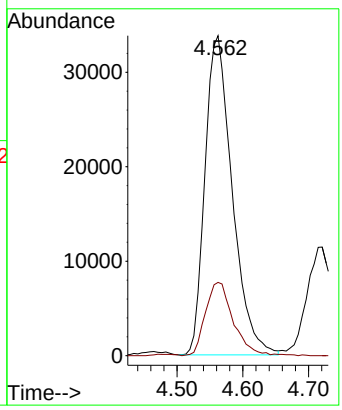





#25
2-Butanone
Concen: 107.880 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 43 Resp: 9729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.7 | 18.4 | 27.6 |




**Instrument :**
MSVOA_X
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VX0521WBS01

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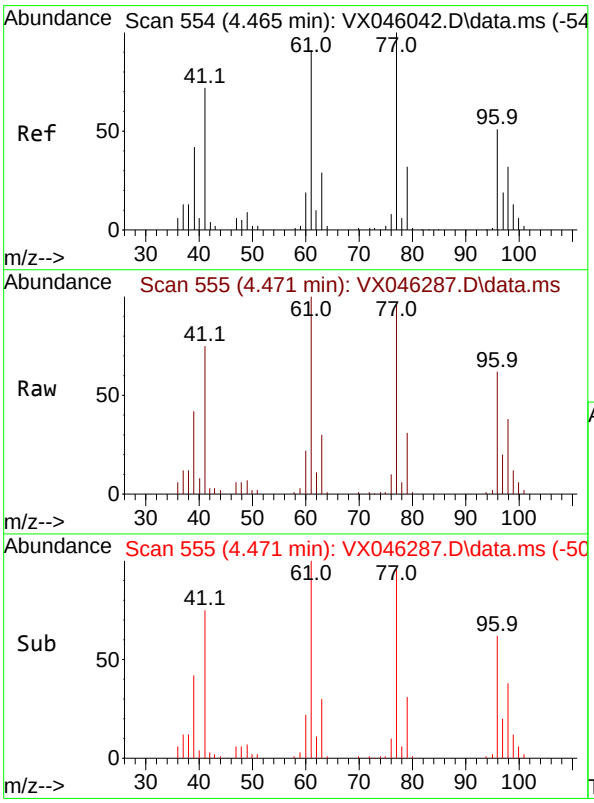
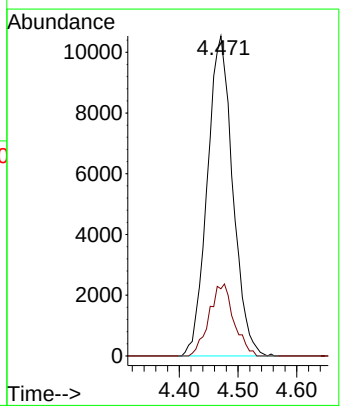
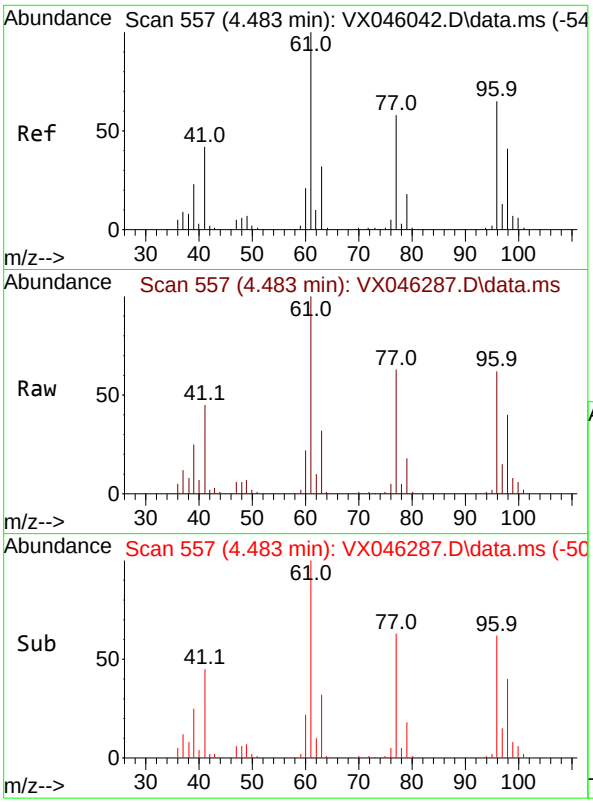



#26
2,2-Dichloropropane
Concen: 20.038 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 77 Resp: 31778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.8 | 10.5 | 31.5 |

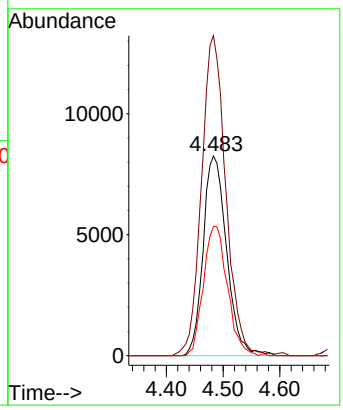





#27
cis-1,2-Dichloroethene
Concen: 19.904 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 96 Resp: 2374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 165.6 | 0.0 | 322.8 |
| 98 | 65.9 | 0.0 | 129.0 |

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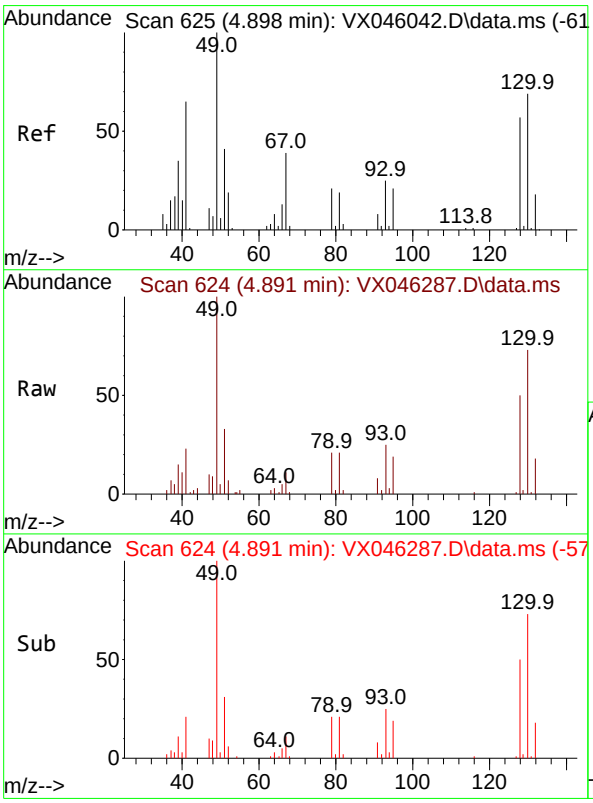
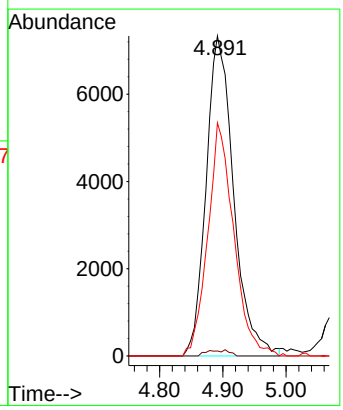
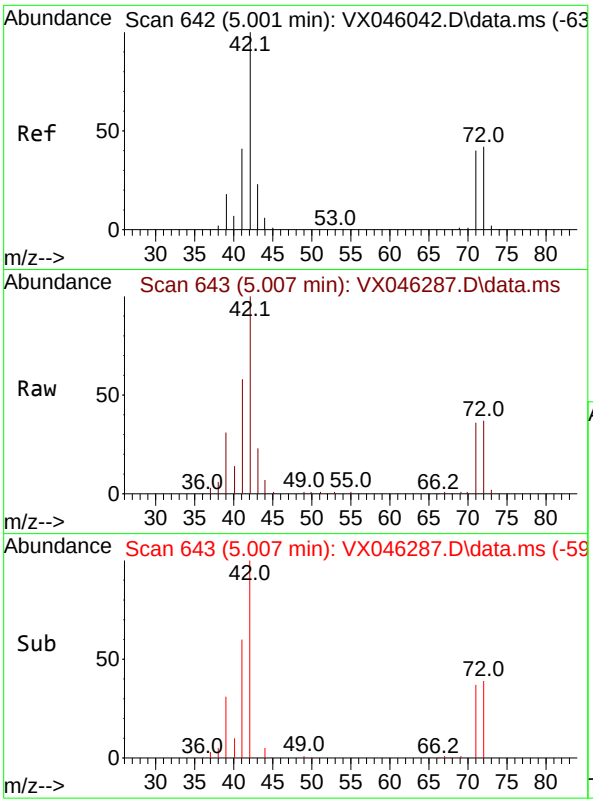



#28
Bromochloromethane
Concen: 22.721 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 49 Resp: 22159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.0 | 0.0 | 4.0 |
| 130 | 69.1 | 56.2 | 84.2 |

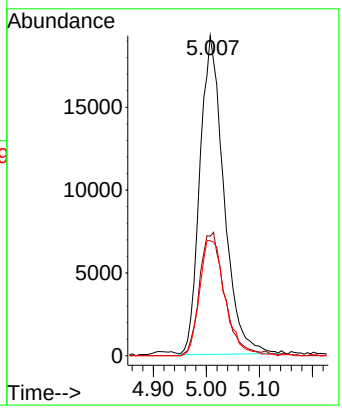





#29
Tetrahydrofuran
Concen: 106.791 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 42 Resp: 6034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 40.7 | 33.7 | 50.5 |
| 71 | 38.7 | 31.4 | 47.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
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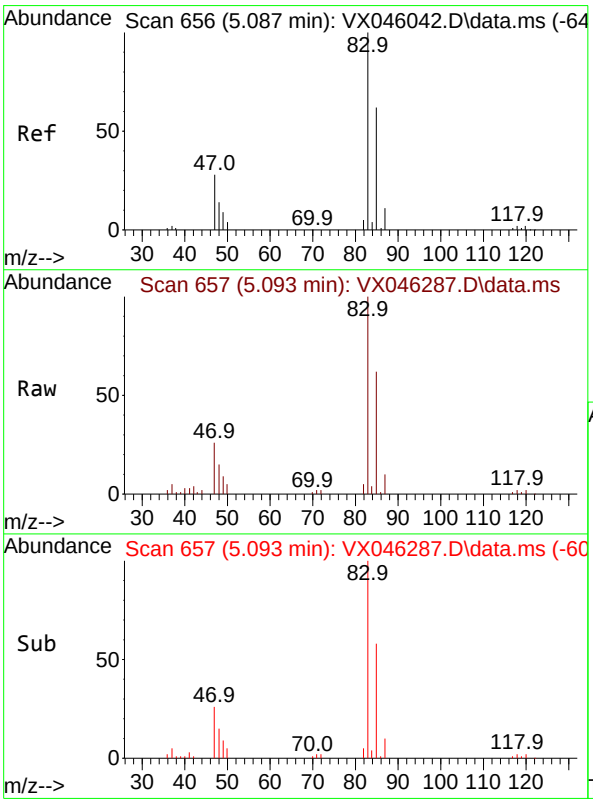
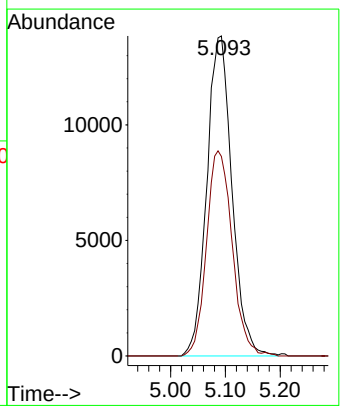
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

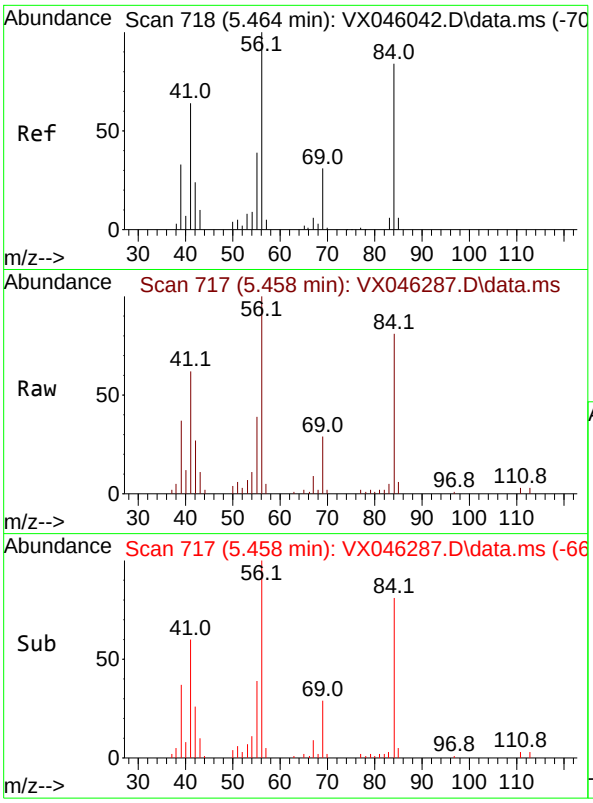



#30
Chloroform
Concen: 20.880 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 83 Resp: 44097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.3 | 49.3 | 73.9 |

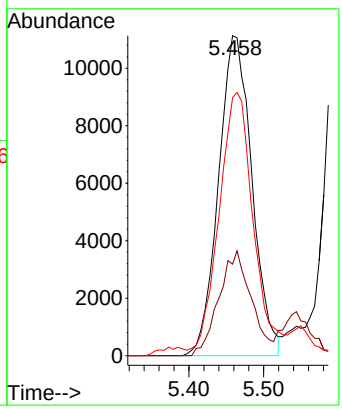





#31
Cyclohexane
Concen: 18.777 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 56 Resp: 3466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 28.6 | 24.4 | 36.6 |
| 84 | 78.0 | 66.9 | 100.3 |




**Instrument :**
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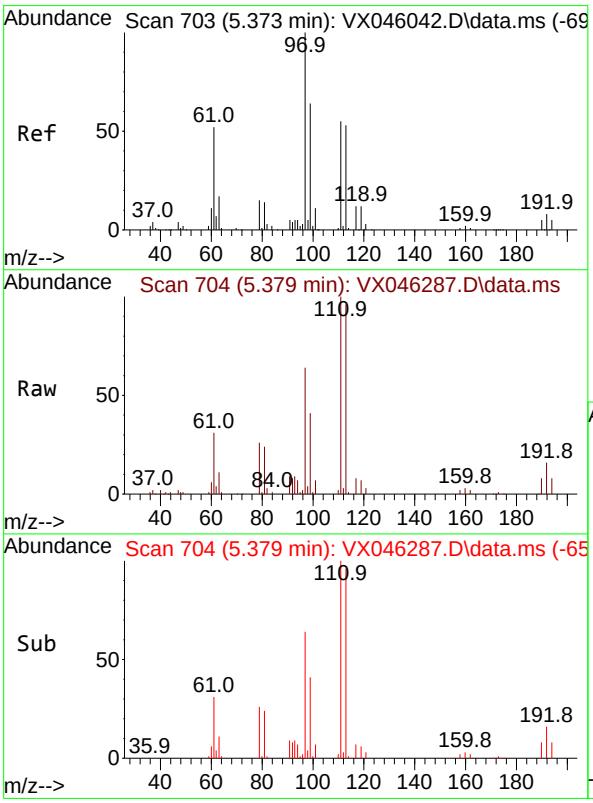
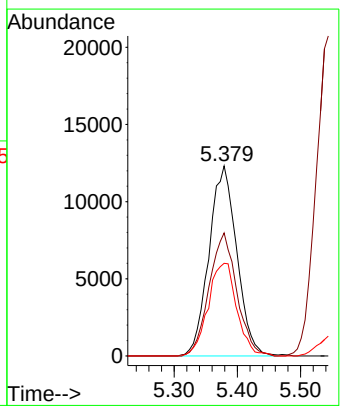
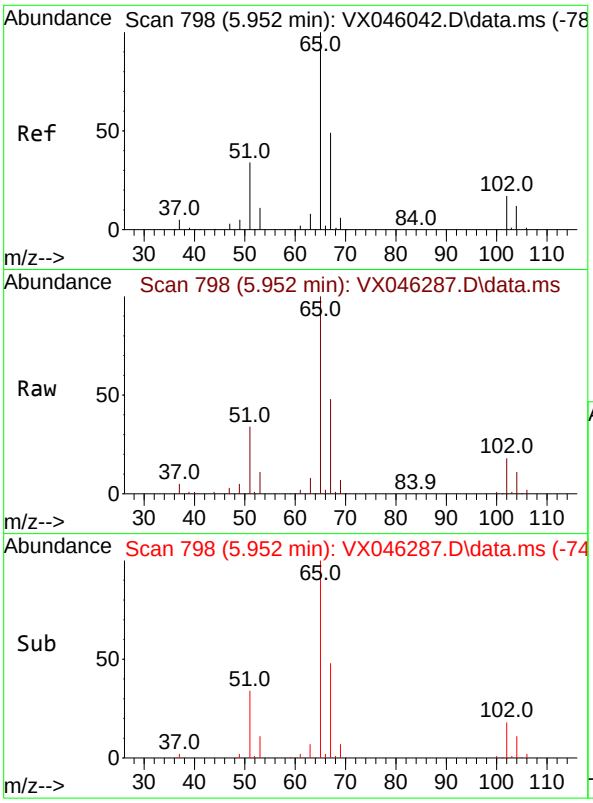



#32
1,1,1-Trichloroethane
Concen: 20.513 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 97 Resp: 37552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.4 | 51.8 | 77.6 |
| 61 | 50.4 | 40.1 | 60.1 |

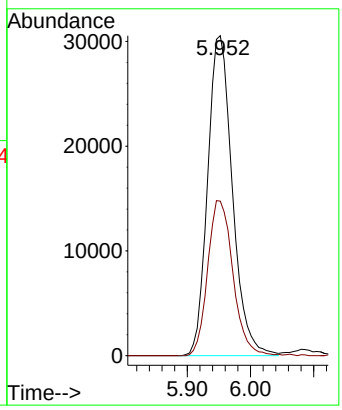





#33
1,2-Dichloroethane-d4
Concen: 53.650 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 65 Resp: 8312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.4 | 0.0 | 99.0 |




**Instrument :**
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VX0521WBS01

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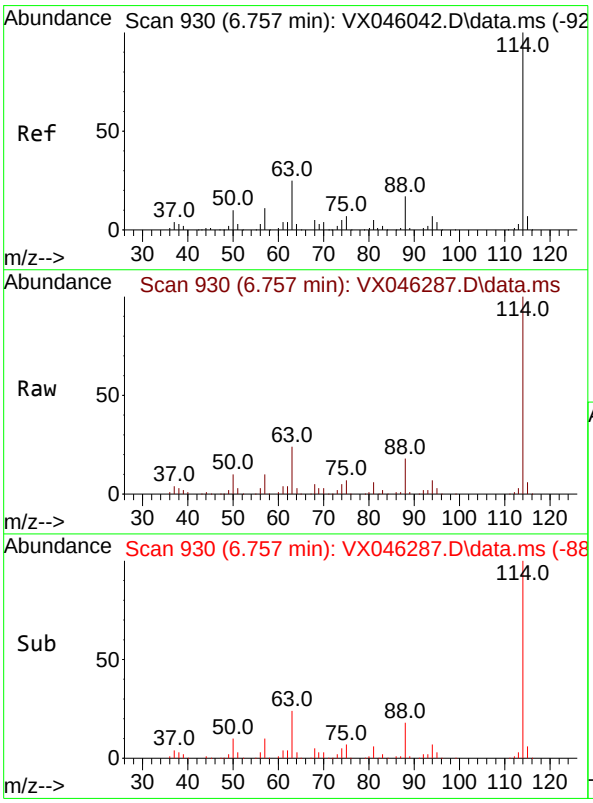
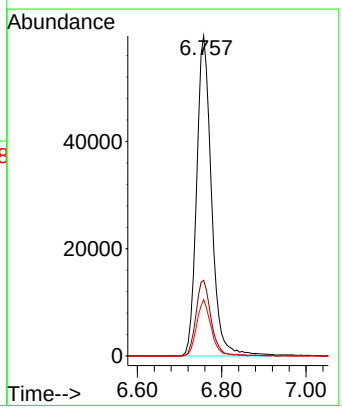
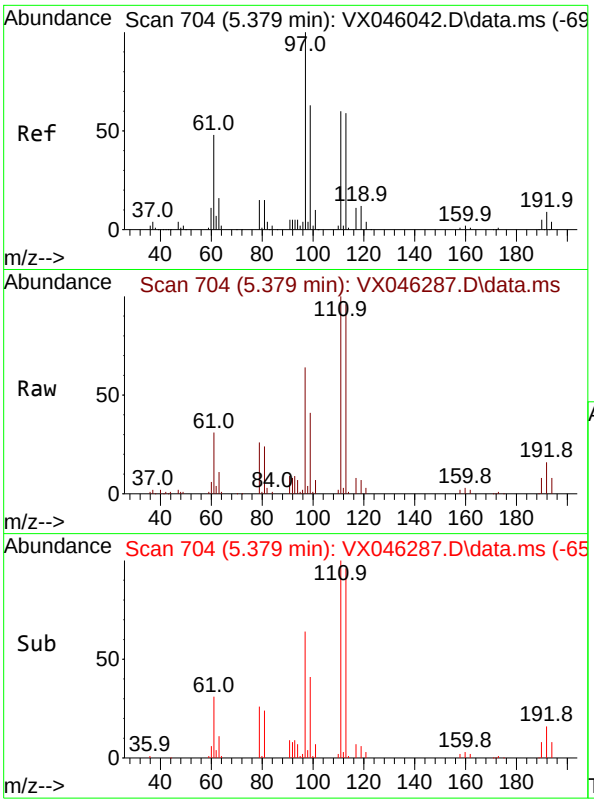



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:114 Resp: 146697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.7 | 0.0 | 49.2 |
| 88 | 17.6 | 0.0 | 33.6 |

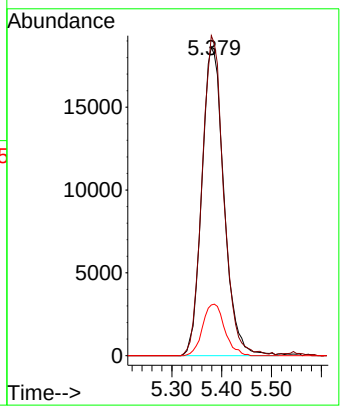





#35
Dibromofluoromethane
Concen: 54.310 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:113 Resp: 5737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.8 | 83.1 | 124.7 |
| 192 | 16.6 | 13.3 | 19.9 |




**Instrument :**
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VX0521WBS01

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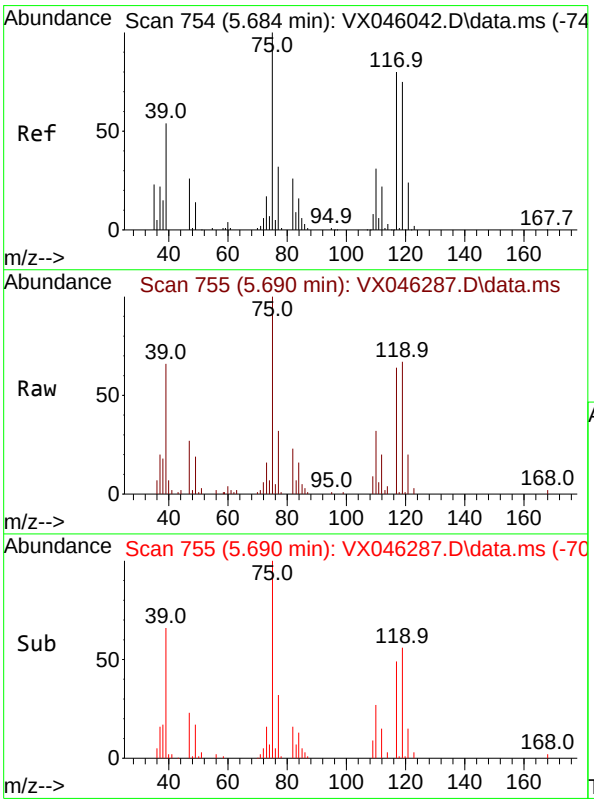
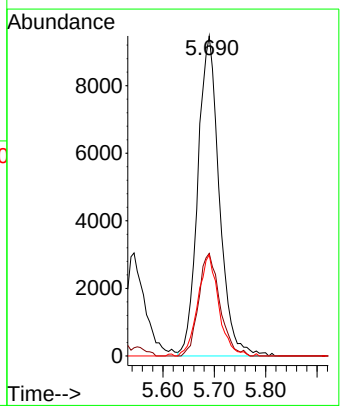
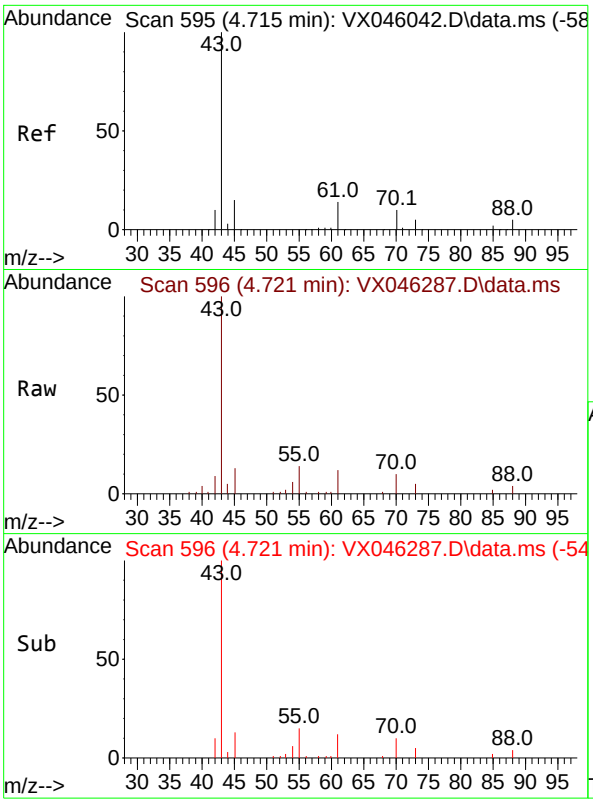



#36
1,1-Dichloropropene
Concen: 19.318 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 75 Resp: 27419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 31.8 | 16.3 | 48.9 |
| 77 | 30.6 | 24.3 | 36.5 |

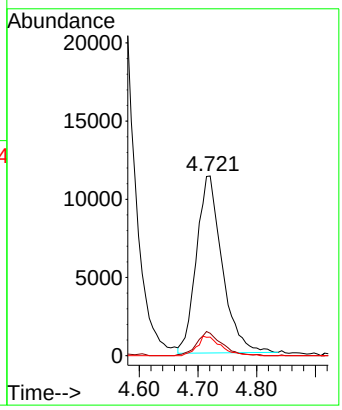





#37
Ethyl Acetate
Concen: 19.662 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 43 Resp: 3447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.1 | 10.3 | 15.5 |
| 70 | 10.1 | 7.9 | 11.9 |




**Instrument :**
MSVOA_X
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VX0521WBS01

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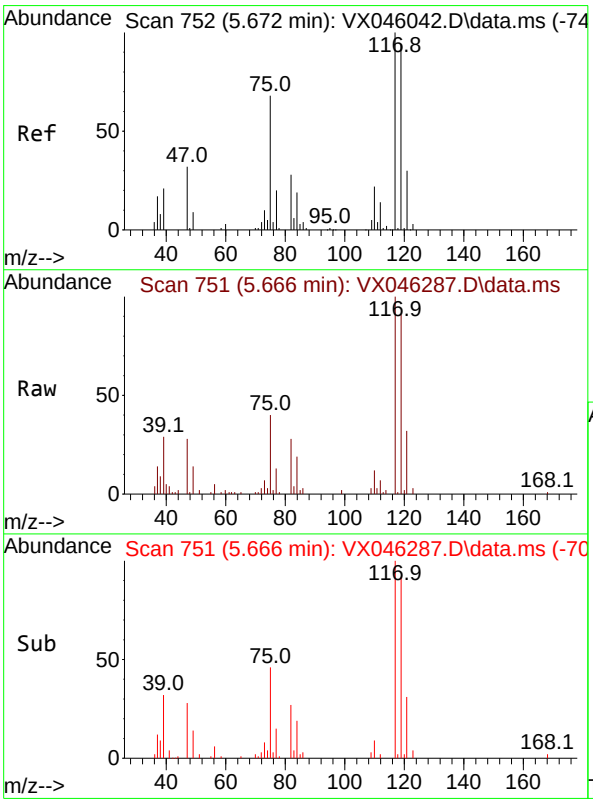
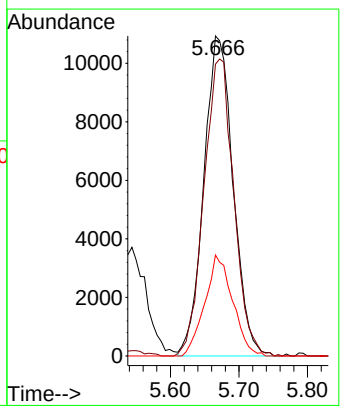
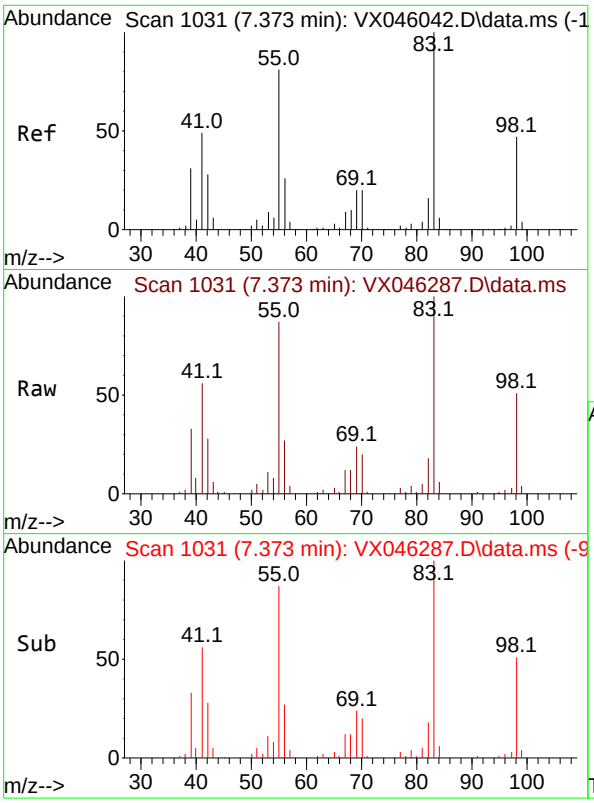



#38
Carbon Tetrachloride
Concen: 20.358 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:117 Resp: 32466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 90.7 | 75.2 | 112.8 |
| 121 | 31.6 | 24.2 | 36.4 |

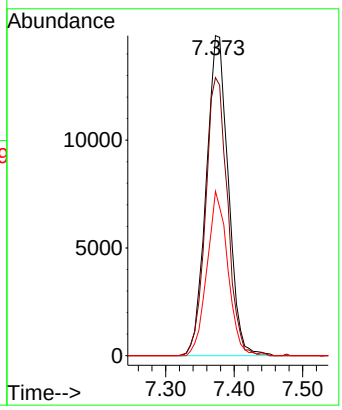





#39
Methylcyclohexane
Concen: 18.179 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 83 Resp: 3321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 86.9 | 64.7 | 97.1 |
| 98 | 51.4 | 37.4 | 56.2 |




**Instrument :**
MSVOA_X
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VX0521WBS01

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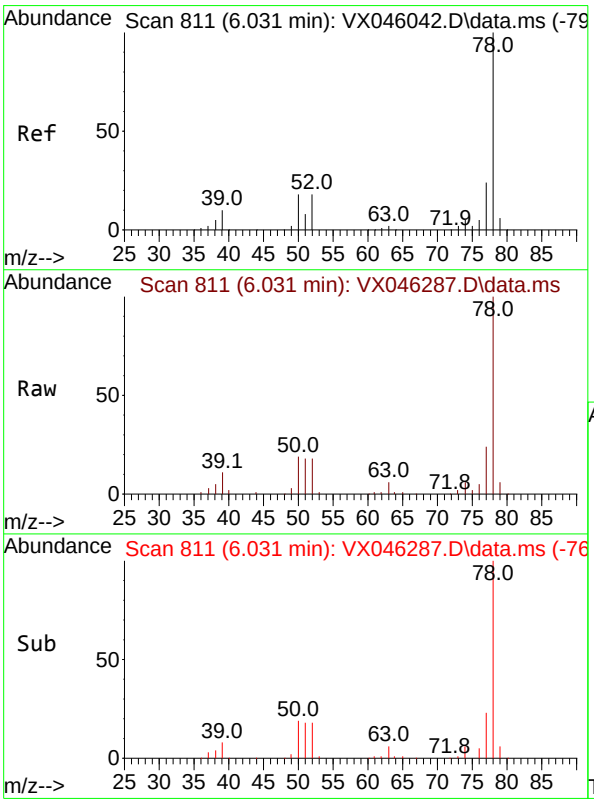
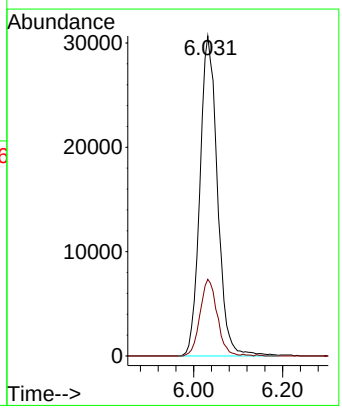
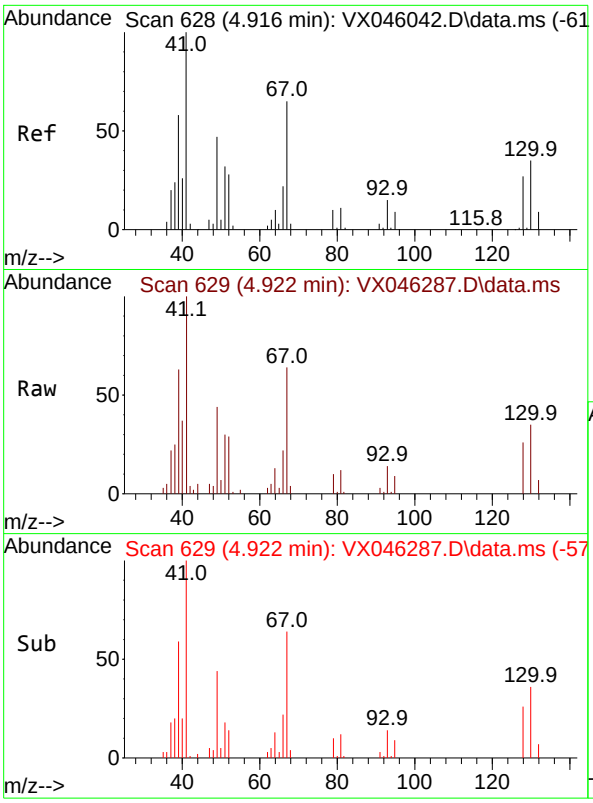



#40
Benzene
Concen: 20.305 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 78 Resp: 84417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 19.0 | 28.4 |

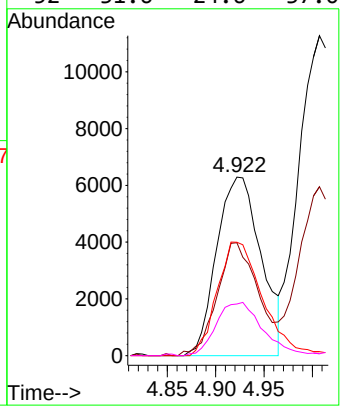





#41
Methacrylonitrile
Concen: 21.927 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 41 Resp: 2011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.0 | 47.2 | 70.8 |
| 67 | 65.5 | 50.7 | 76.1 |
| 52 | 31.6 | 24.6 | 37.0 |




**Instrument :**
MSVOA_X
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VX0521WBS01

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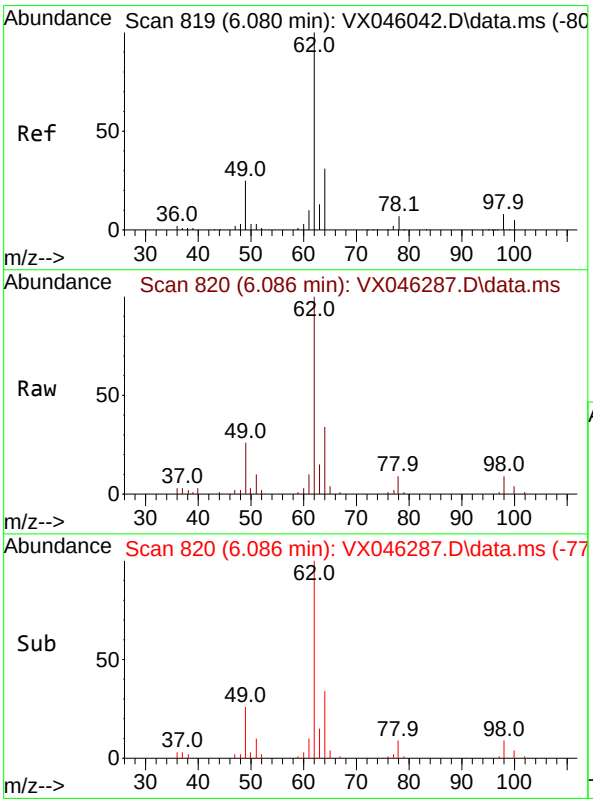
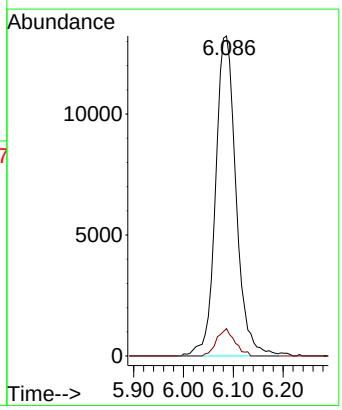
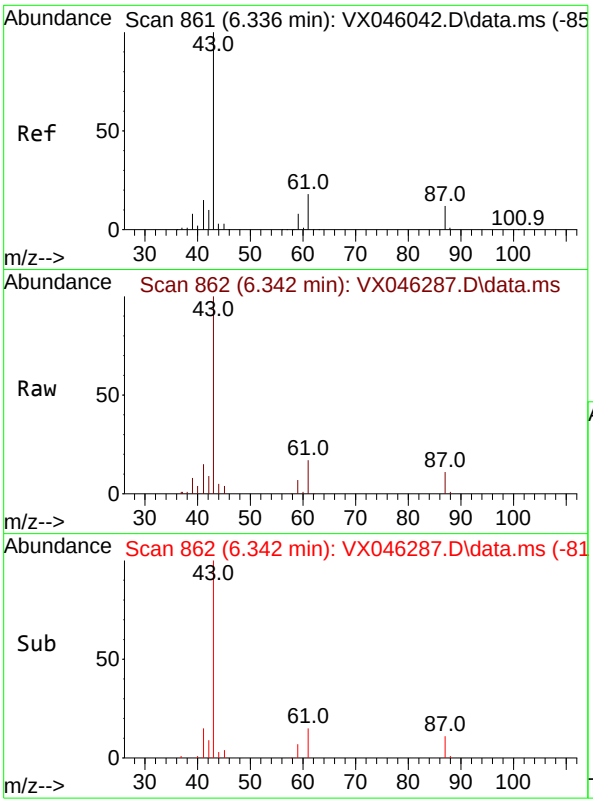



#42
1,2-Dichloroethane
Concen: 21.028 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 62 Resp: 37731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.6 | 0.0 | 15.2 |






#43
Isopropyl Acetate
Concen: 20.922 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 43 Resp: 5597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 17.4 | 14.3 | 21.5 |
| 87 | 11.1 | 9.5 | 14.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

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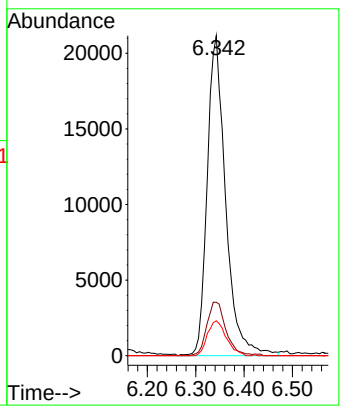
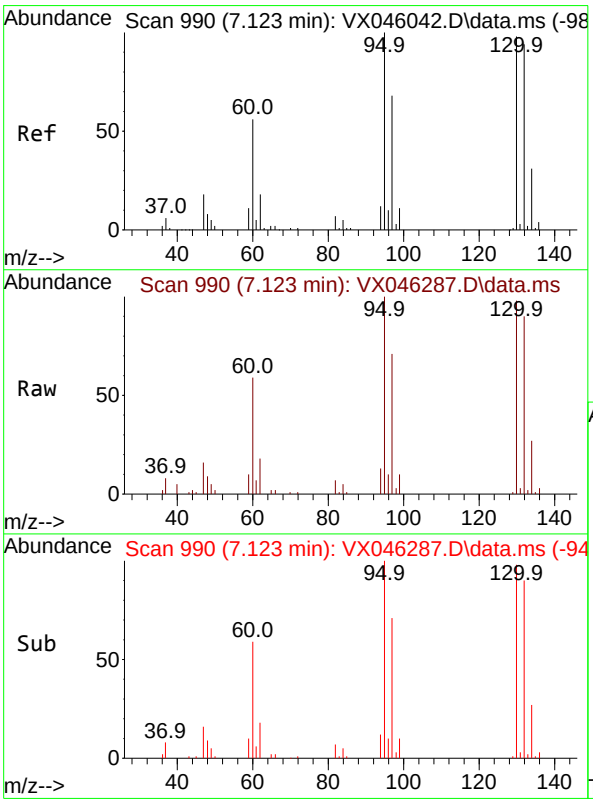
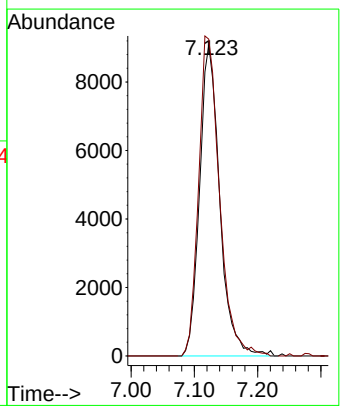


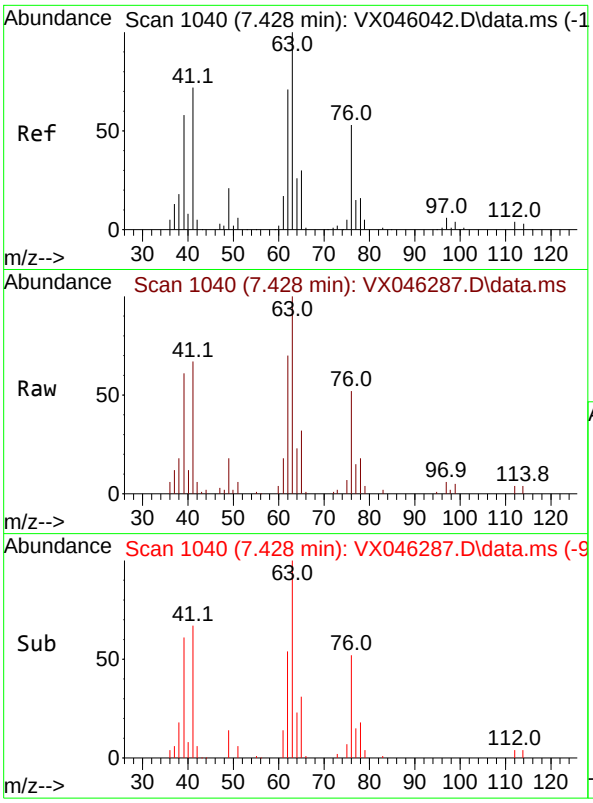




#44
Trichloroethene
Concen: 20.142 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:130 Resp: 20154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.8 | 0.0 | 204.2 |

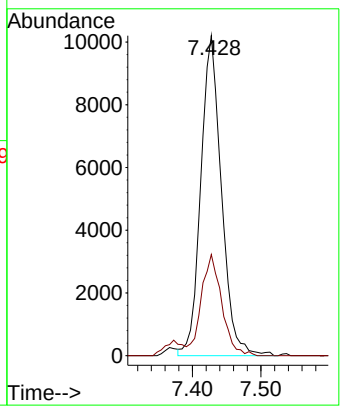





#45
1,2-Dichloropropane
Concen: 20.700 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 63 Resp: 2139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.6 | 24.1 | 36.1 |

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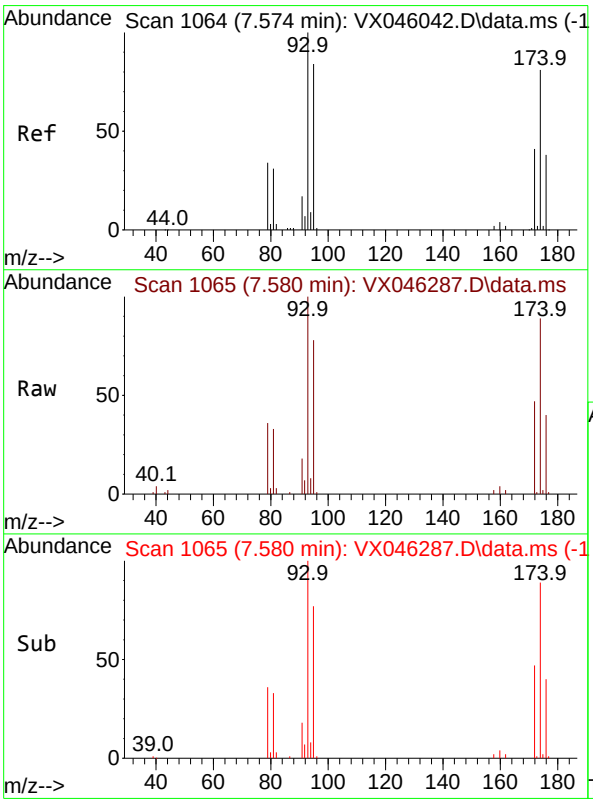
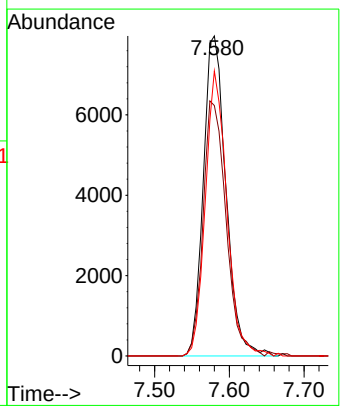
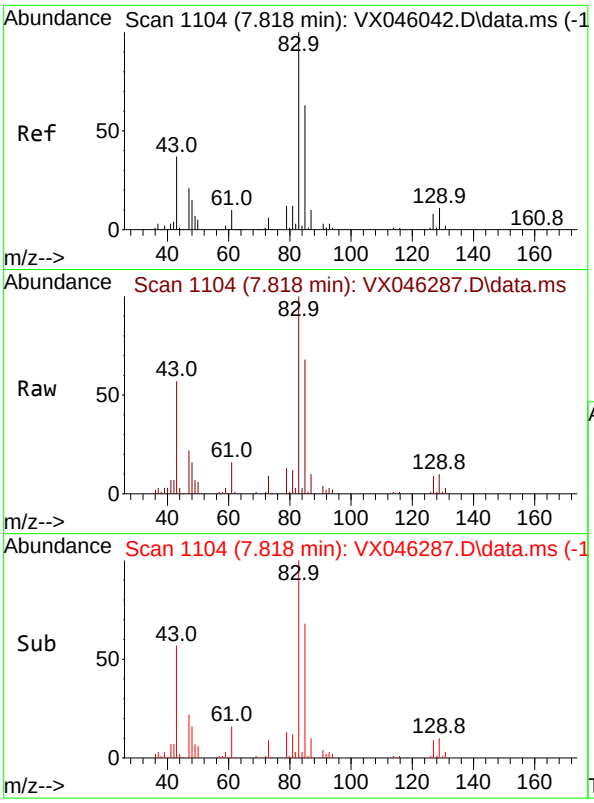



#46
Dibromomethane
Concen: 20.515 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 93 Resp: 16727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.8 | 65.6 | 98.4 |
| 174 | 85.0 | 68.2 | 102.2 |

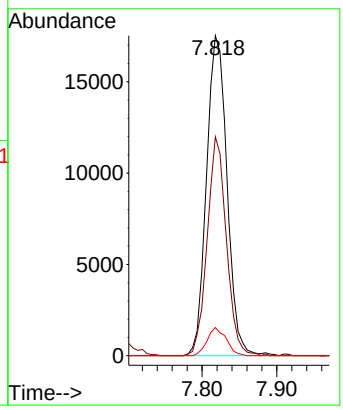





#47
Bromodichloromethane
Concen: 20.884 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 83 Resp: 3353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 68.4 | 50.5 | 75.7 |
| 127 | 8.8 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
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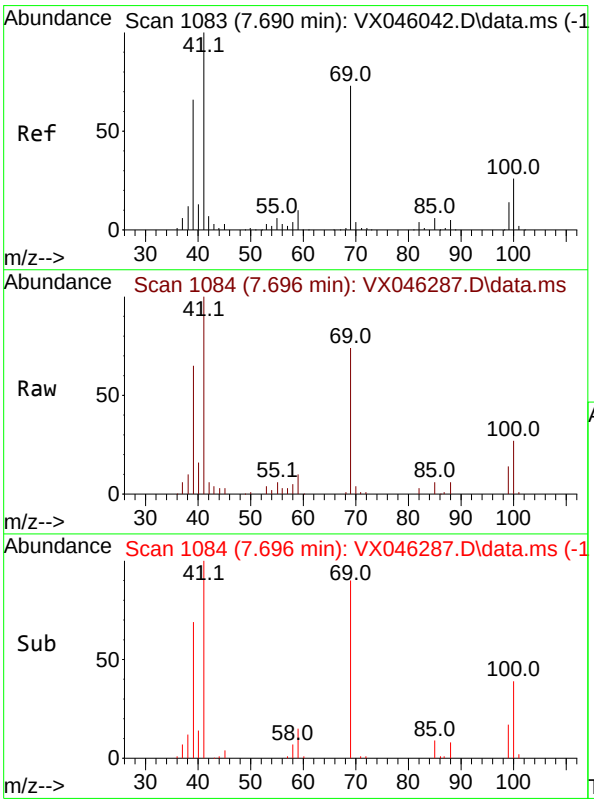
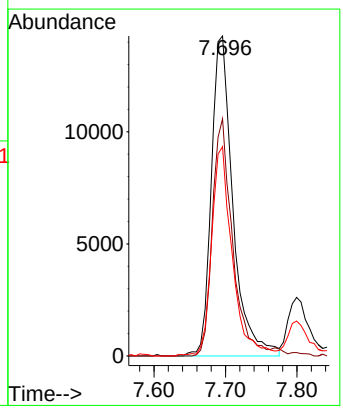
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

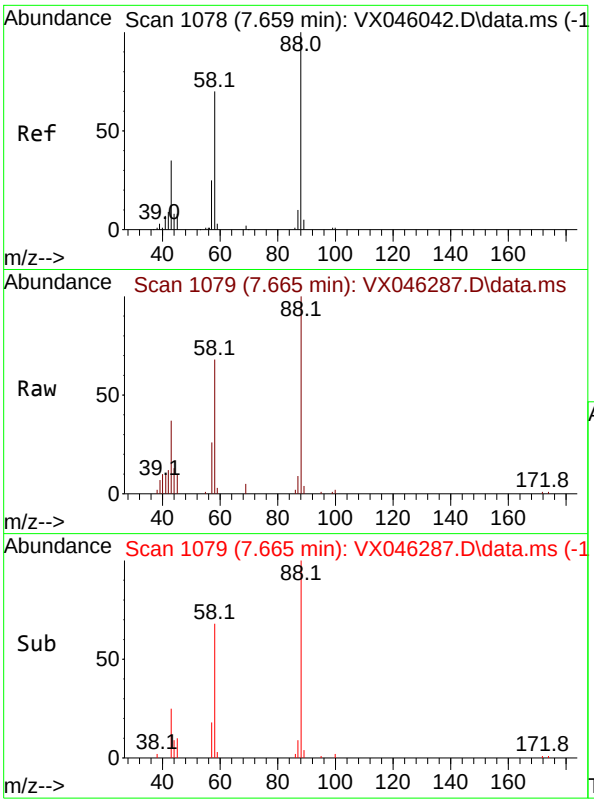



#48
Methyl methacrylate
Concen: 21.893 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 41 Resp: 29912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 69.0 | 58.5 | 87.7 |
| 39 | 62.8 | 51.7 | 77.5 |

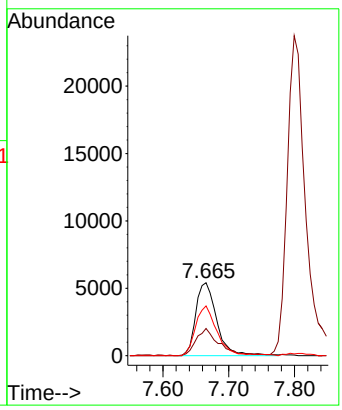





#49
1,4-Dioxane
Concen: 461.769 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 88 Resp: 1197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 41.2 | 33.4 | 50.2 |
| 58 | 70.1 | 58.6 | 88.0 |




**Instrument :**
MSVOA_X
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VX0521WBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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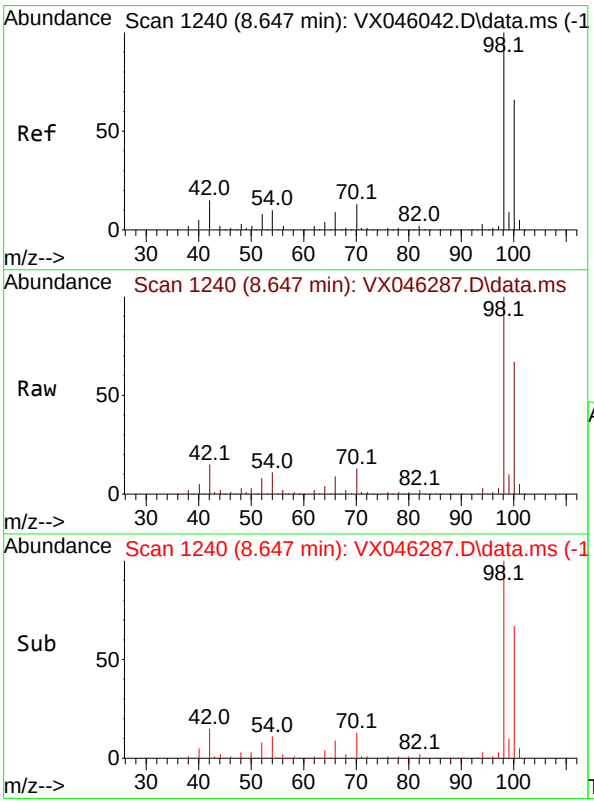
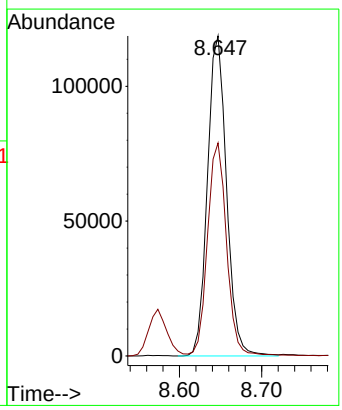
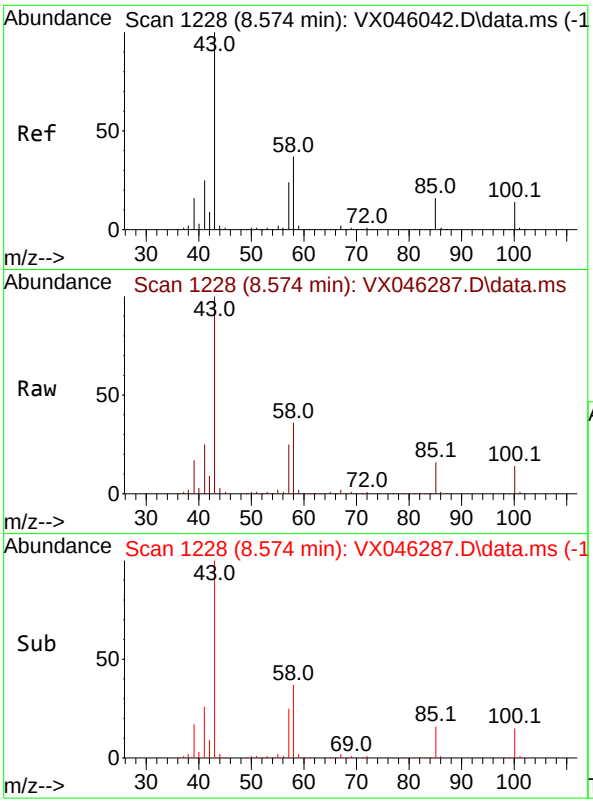



#50
Toluene-d8
Concen: 52.383 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 98 Resp: 191524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.4 | 53.5 | 80.3 |

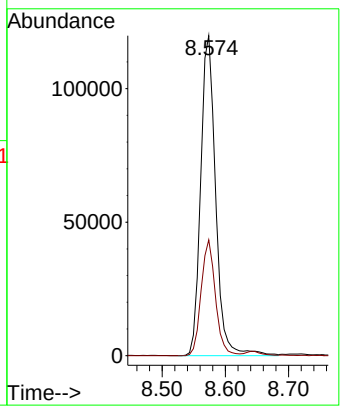





#51
4-Methyl-2-Pentanone
Concen: 111.451 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 43 Resp: 19791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.5 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
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VX0521WBS01

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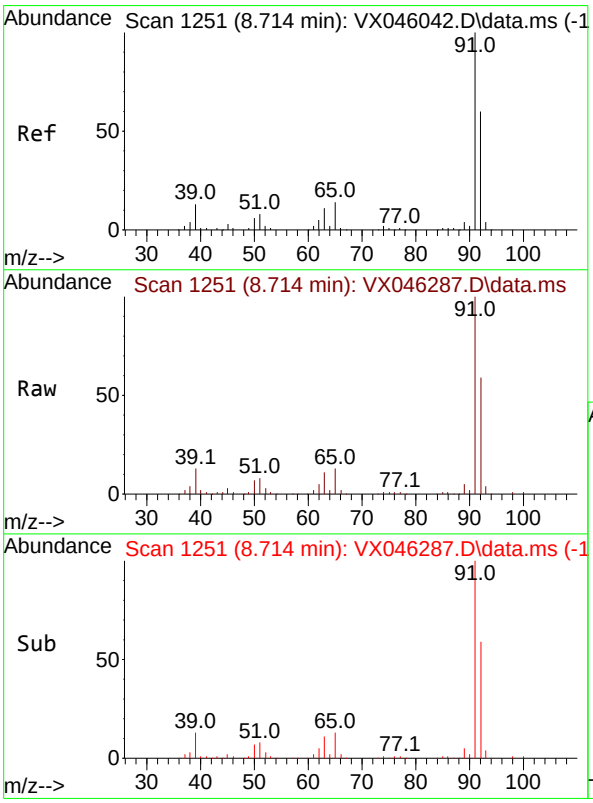
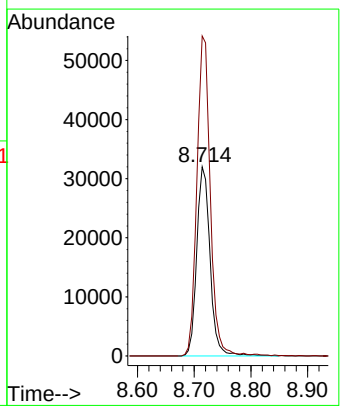
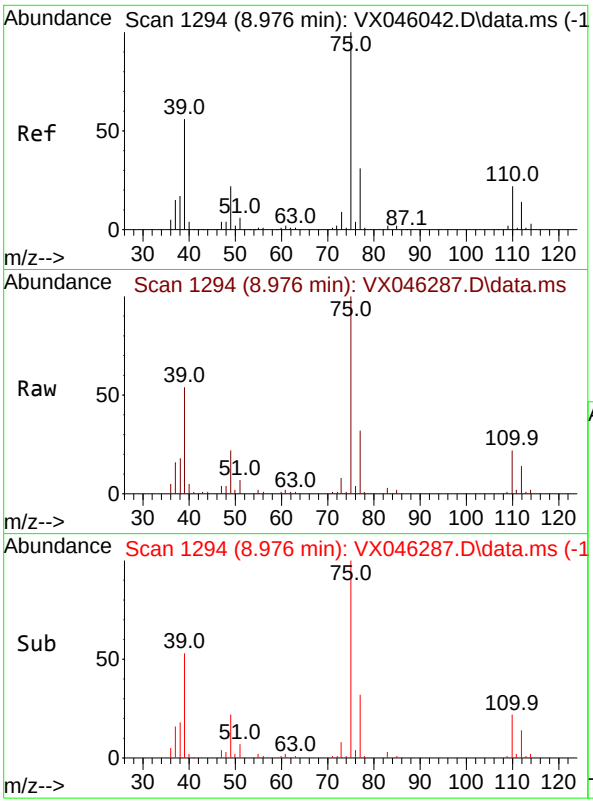



#52
Toluene
Concen: 20.494 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 92 Resp: 52243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.3 | 136.6 | 205.0 |

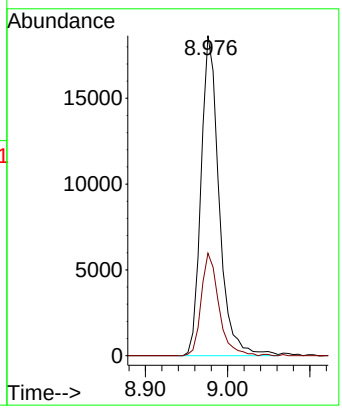





#53
t-1,3-Dichloropropene
Concen: 19.935 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 75 Resp: 2845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.0 | 25.0 | 37.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

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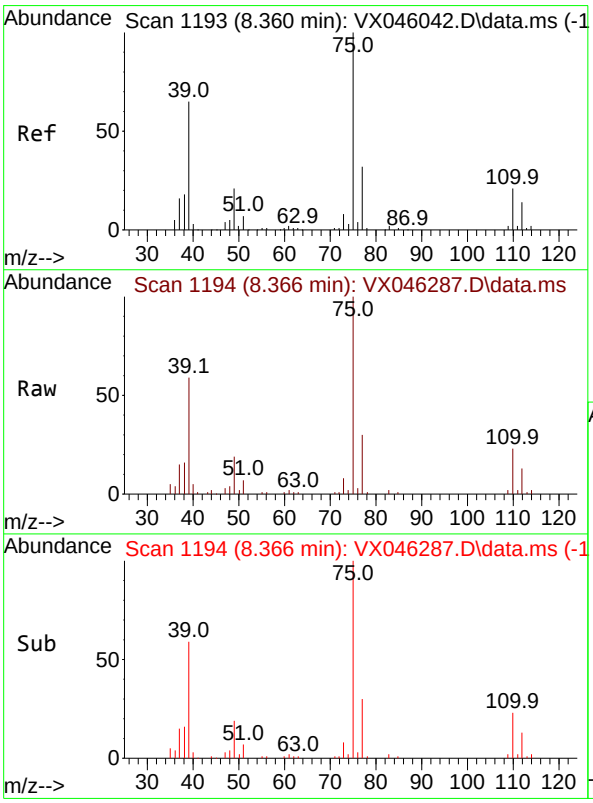
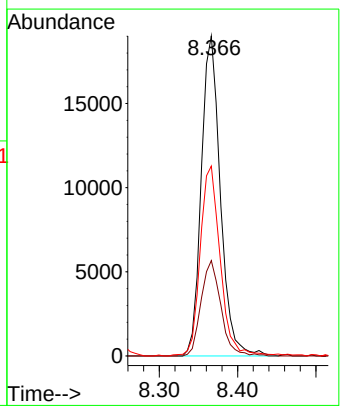
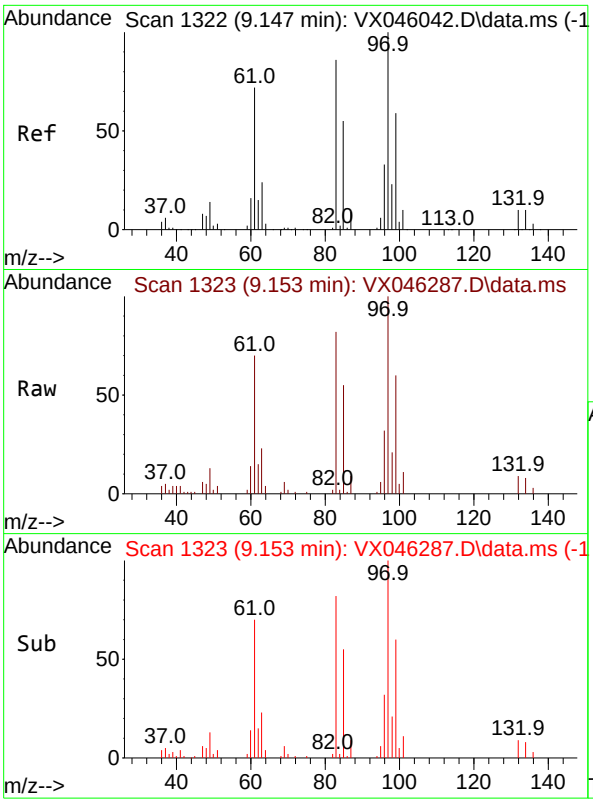



#54
cis-1,3-Dichloropropene
Concen: 20.399 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 75 Resp: 32181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.8 | 25.4 | 38.0 |
| 39 | 58.9 | 52.2 | 78.4 |

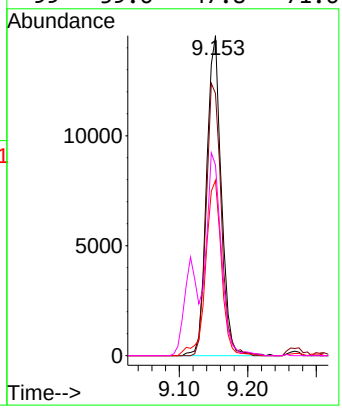





#55
1,1,2-Trichloroethane
Concen: 21.646 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 97 Resp: 2175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.0 | 69.0 | 103.6 |
| 85 | 54.8 | 44.3 | 66.5 |
| 99 | 59.6 | 47.8 | 71.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
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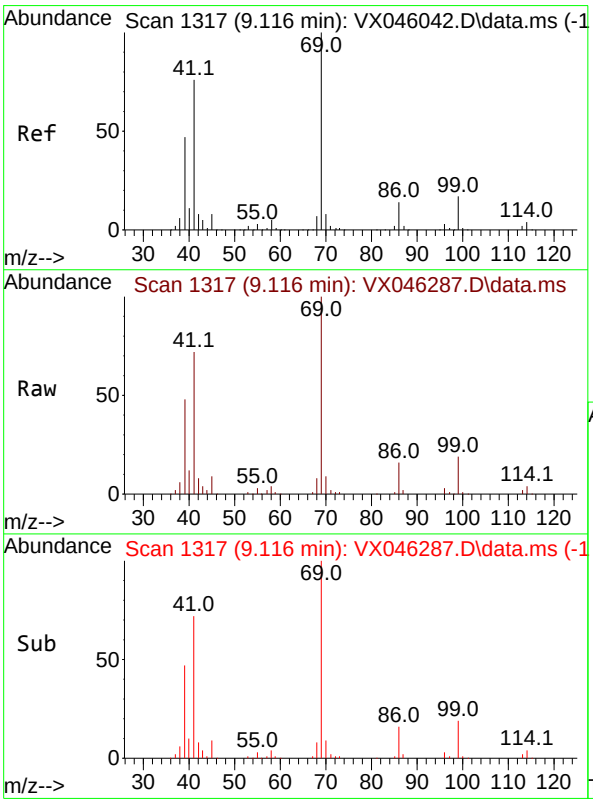
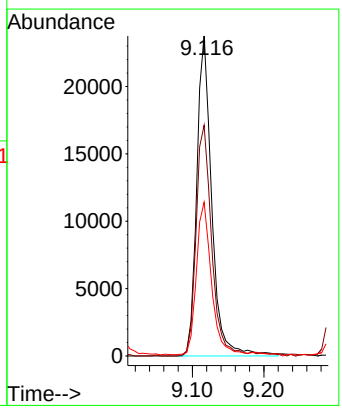
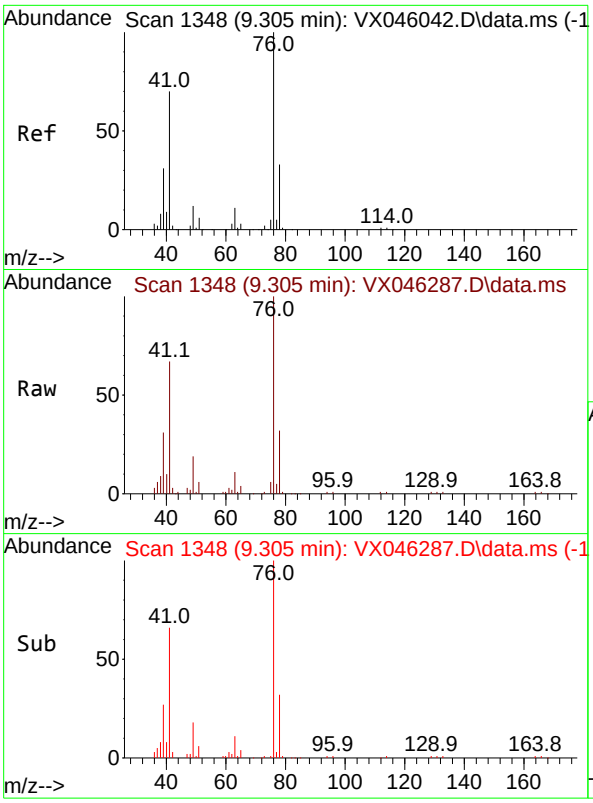



#56
Ethyl methacrylate
Concen: 21.526 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 69 Resp: 34485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 74.6 | 60.8 | 91.2 |
| 39 | 47.5 | 39.0 | 58.6 |

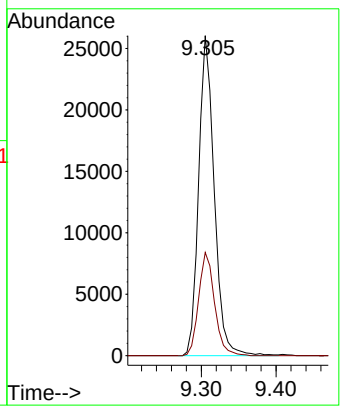





#57
1,3-Dichloropropane
Concen: 20.867 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 76 Resp: 3767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.0 | 26.3 | 39.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
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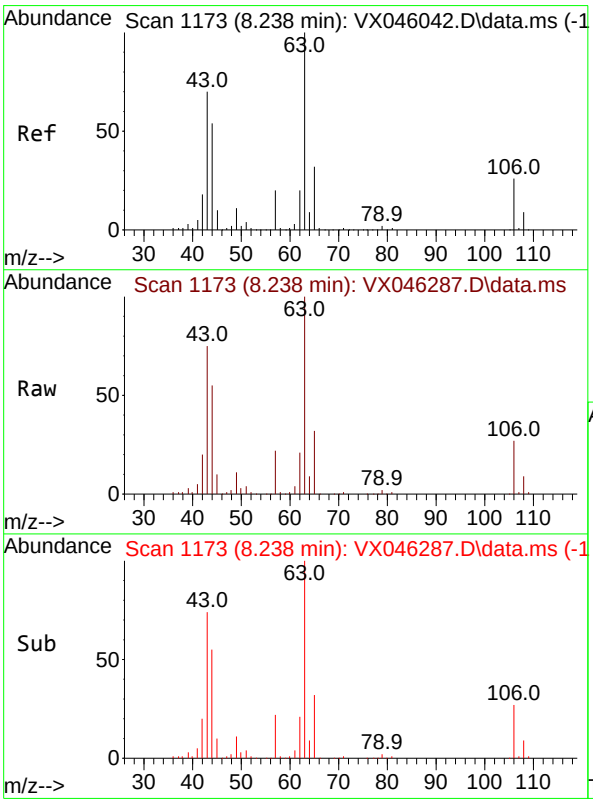
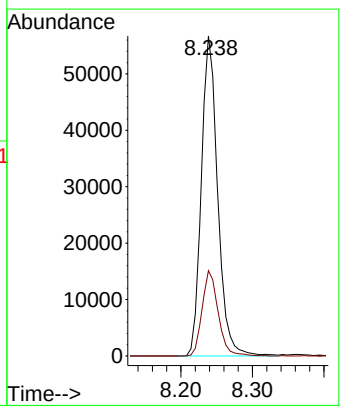
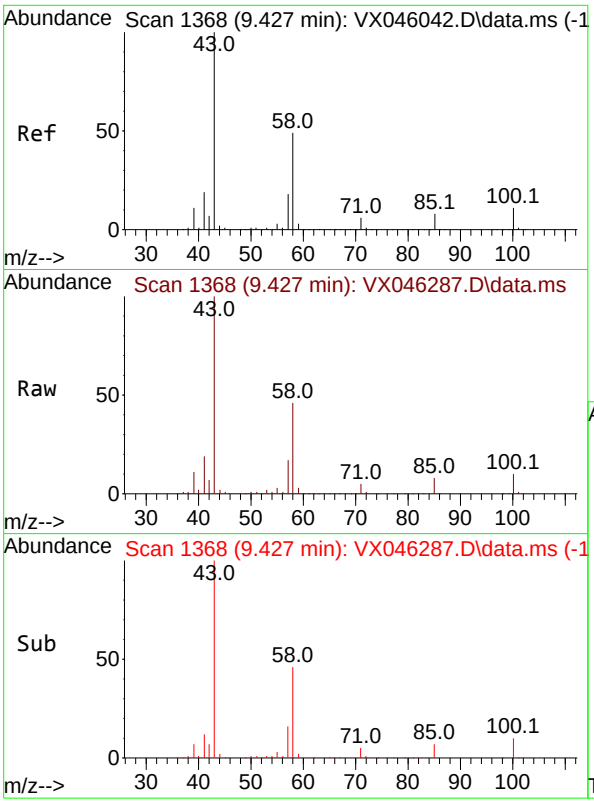



#58
2-Chloroethyl Vinyl ether
Concen: 110.253 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 63 Resp: 90048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.1 | 21.5 | 32.3 |

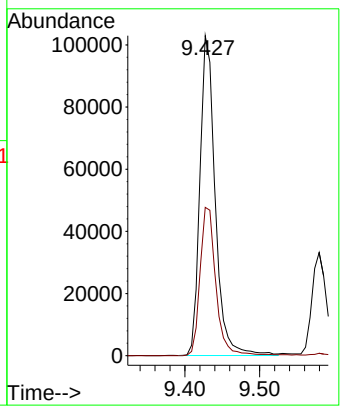





#59
2-Hexanone
Concen: 111.809 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 43 Resp: 14689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 48.1 | 24.9 | 74.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

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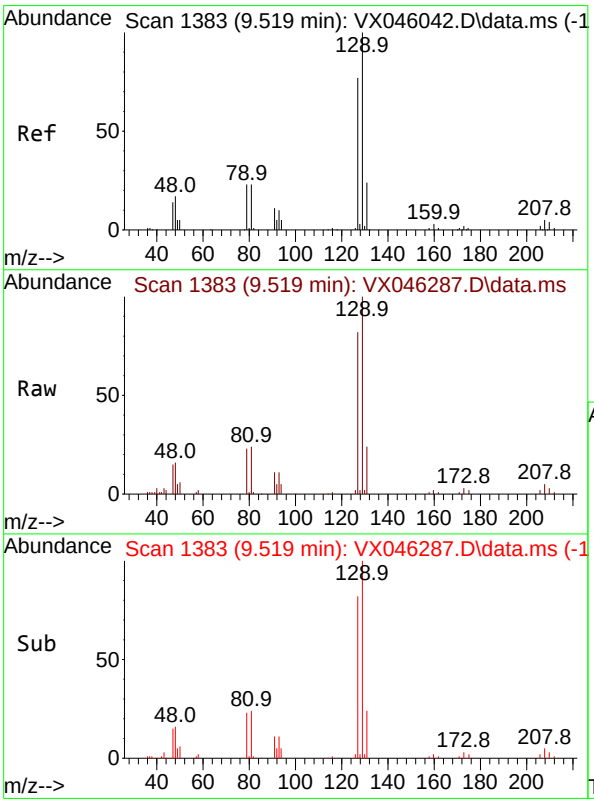
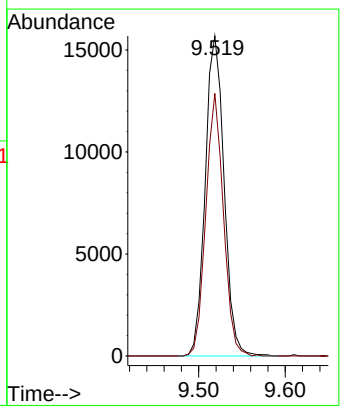
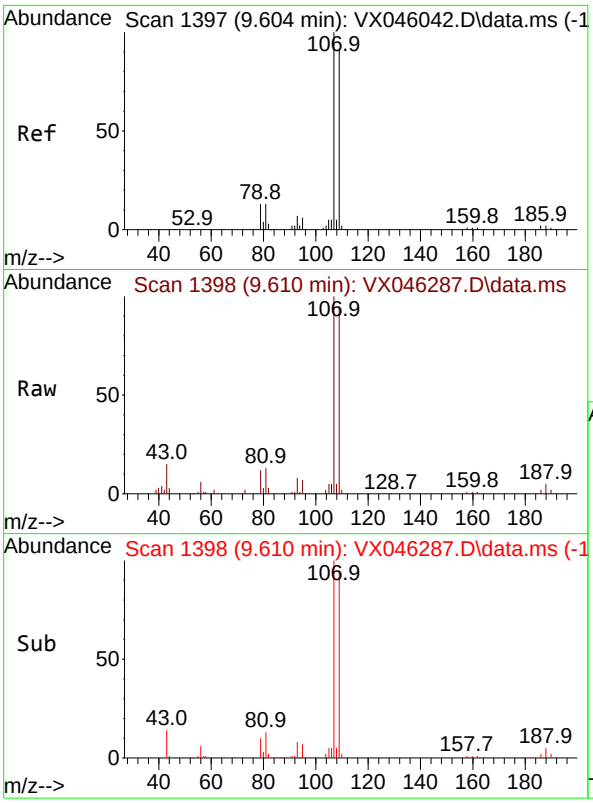



#60
Dibromochloromethane
Concen: 21.467 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:129 Resp: 23698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.6 | 39.3 | 117.8 |

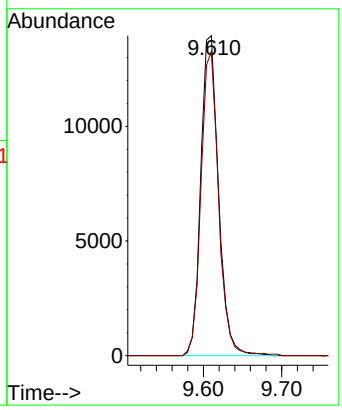





#61
1,2-Dibromoethane
Concen: 21.044 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:107 Resp: 2198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.0 | 73.3 | 109.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
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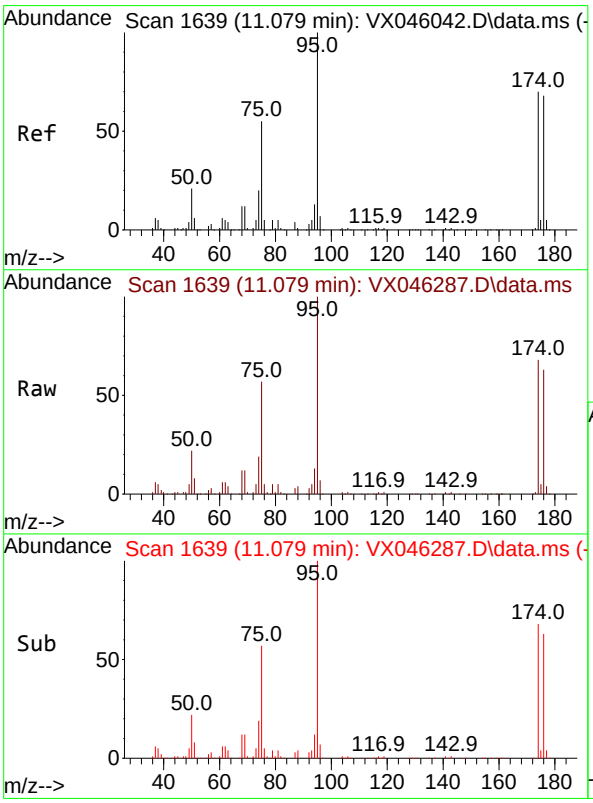
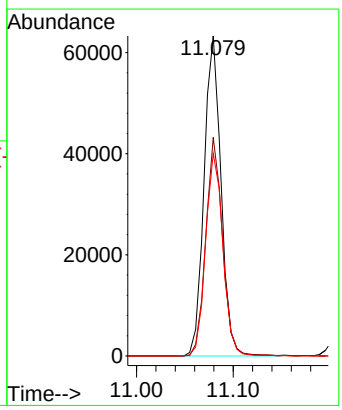
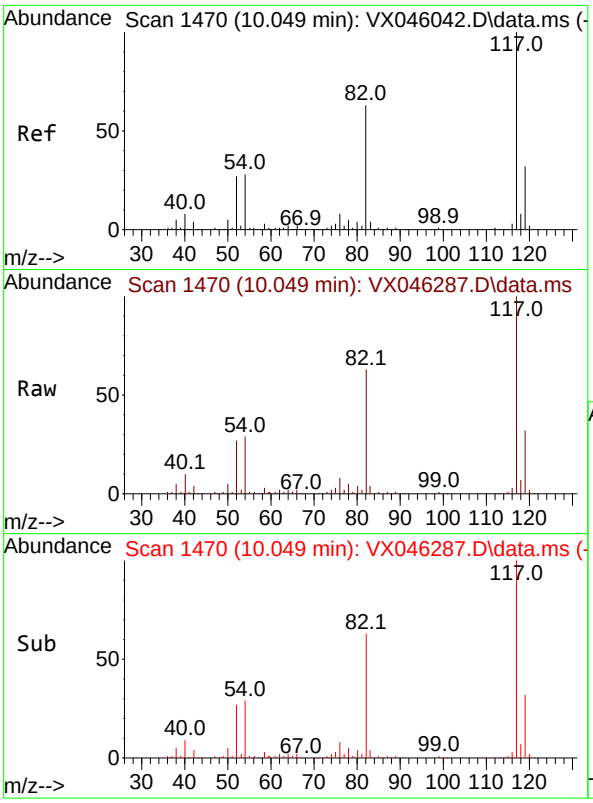



#62
4-Bromofluorobenzene
Concen: 55.031 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 95 Resp: 77180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.4 | 0.0 | 135.8 |
| 176 | 64.5 | 0.0 | 131.4 |

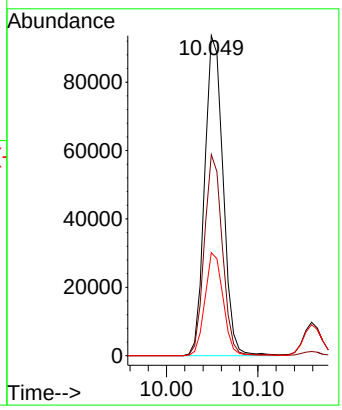





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:117 Resp: 13047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 62.9 | 50.6 | 76.0 |
| 119 | 32.2 | 25.8 | 38.6 |




**Instrument :**
MSVOA_X
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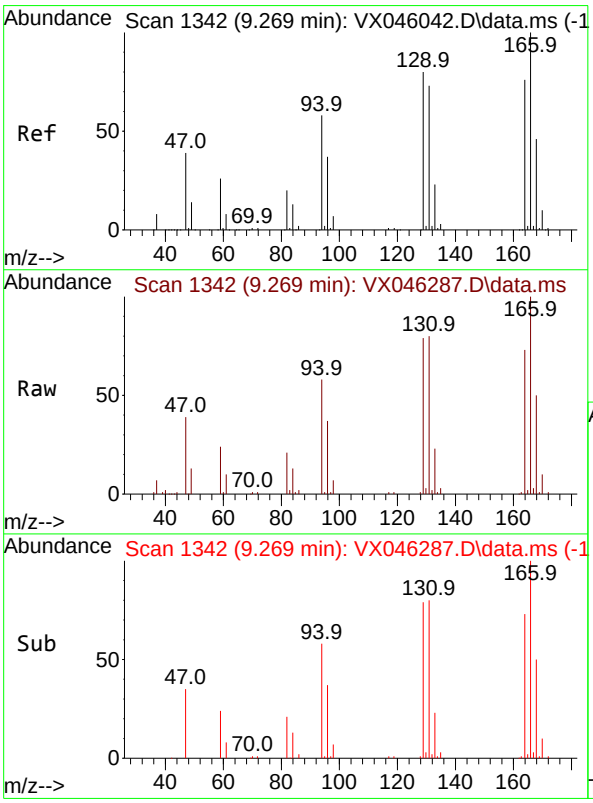
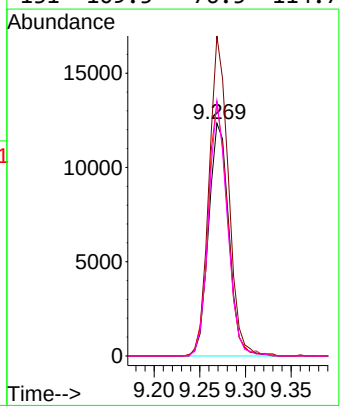
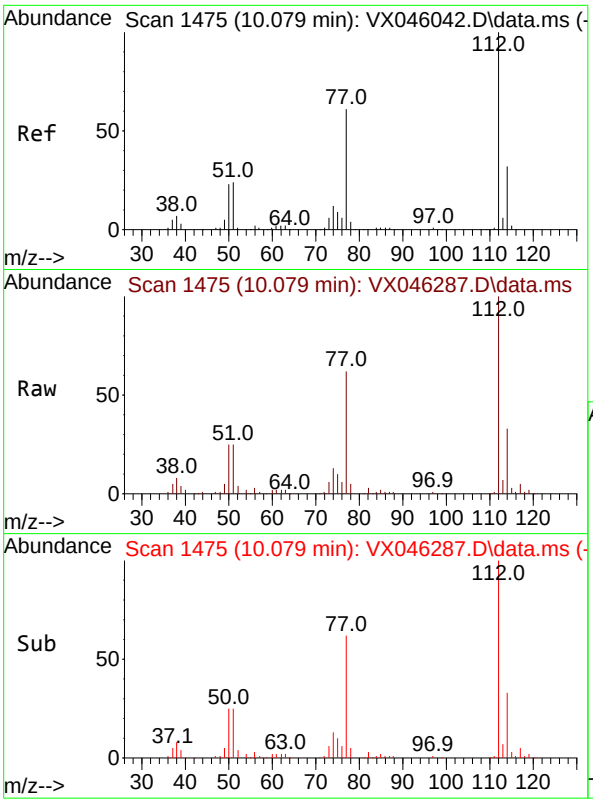



#64
Tetrachloroethene
Concen: 20.459 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:164 Resp: 18888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 137.6 | 105.0 | 157.6 |
| 129 | 108.9 | 83.5 | 125.3 |
| 131 | 109.5 | 76.5 | 114.7 |






#65
Chlorobenzene
Concen: 19.813 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

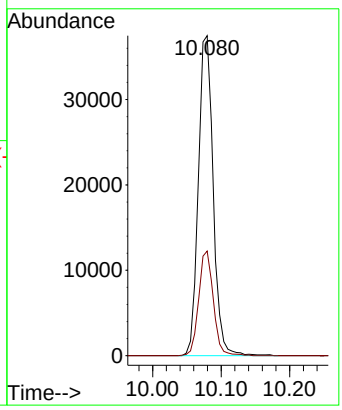
Tgt Ion:112 Resp: 5658

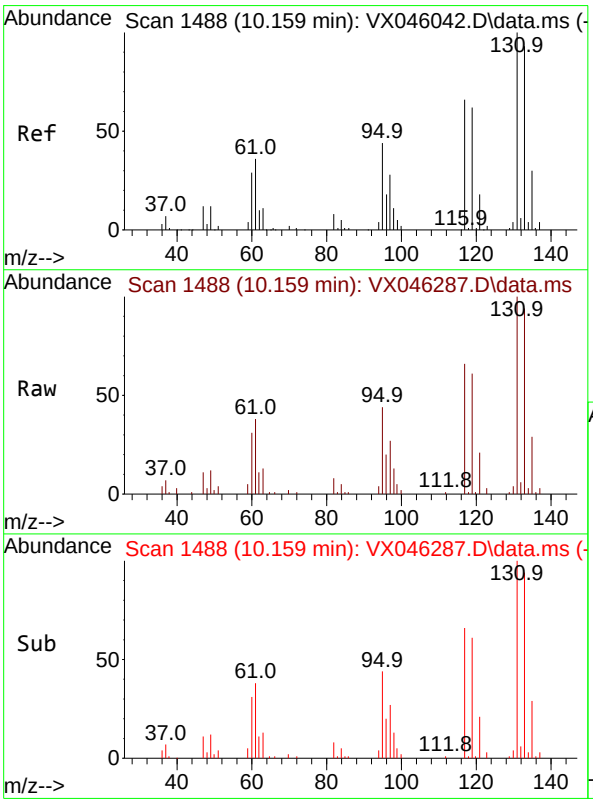
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.7 | 25.4 | 38.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

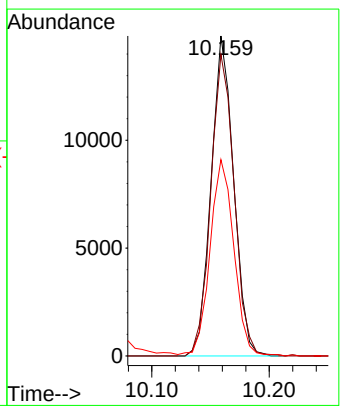


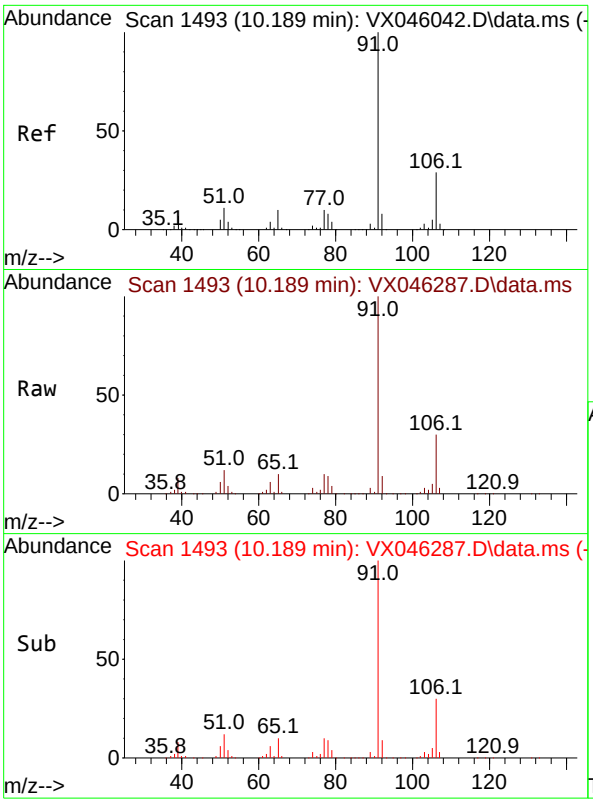




#66
1,1,1,2-Tetrachloroethane
Concen: 20.321 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:131 Resp: 19817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.6 | 47.3 | 141.9 |
| 119 | 65.0 | 31.6 | 95.0 |

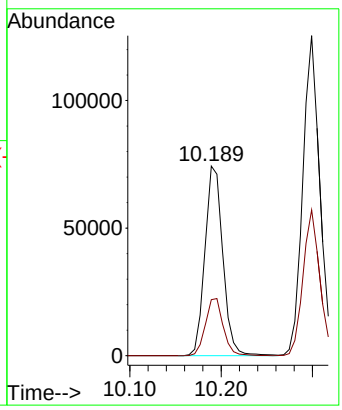





#67
Ethyl Benzene
Concen: 20.071 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 91 Resp: 10104

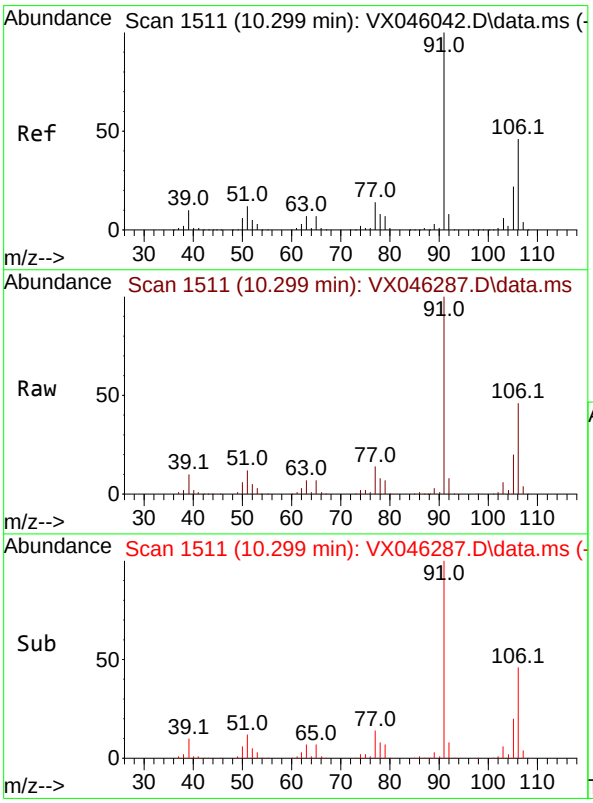
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.6 | 23.4 | 35.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
**APPROVED**

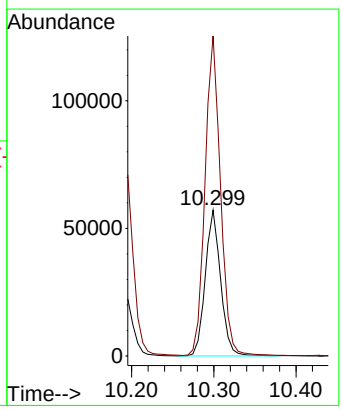
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

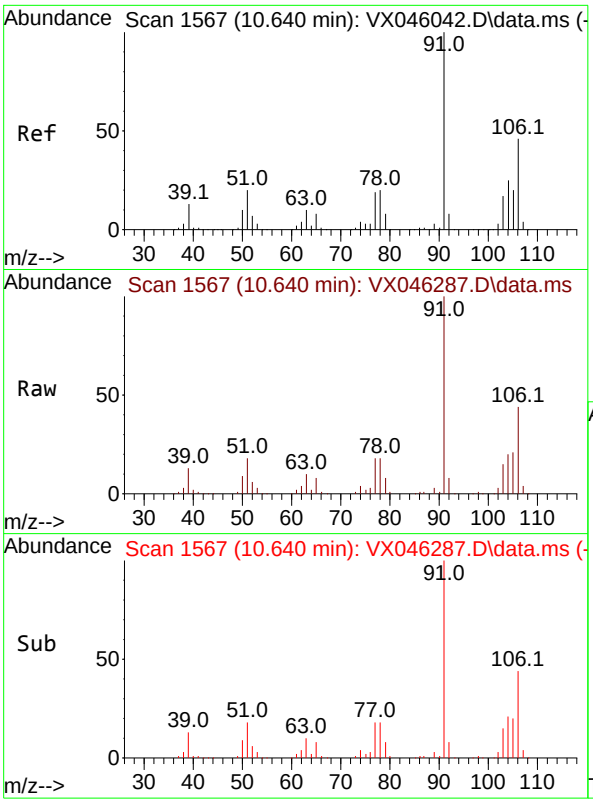



#68
m/p-Xylenes
Concen: 40.309 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:106 Resp: 74216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.6 | 171.2 | 256.8 |

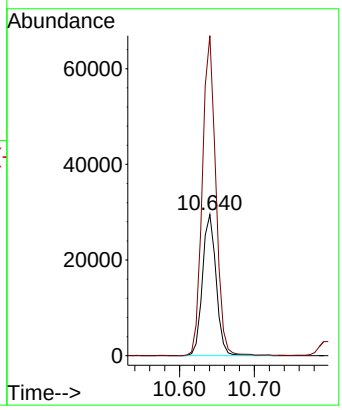





#69
o-Xylene
Concen: 20.882 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:106 Resp: 3748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 224.0 | 112.7 | 338.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/22/2025
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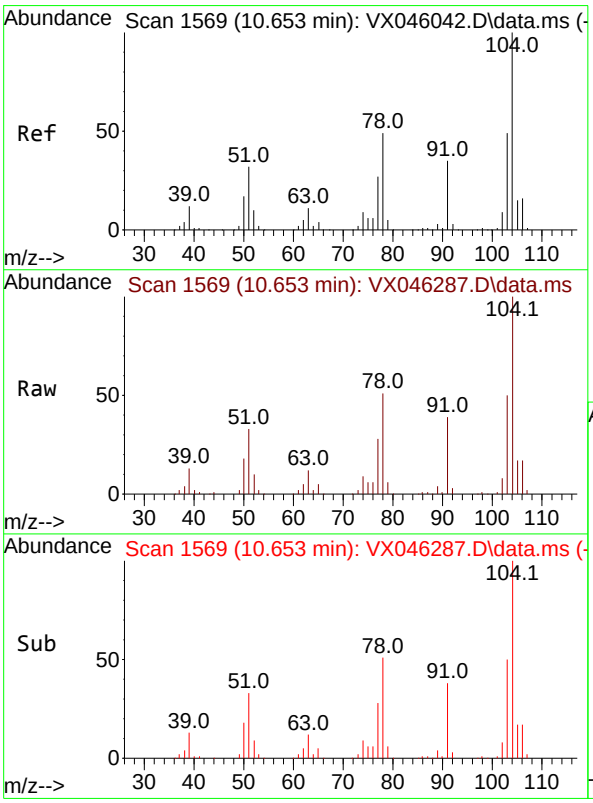
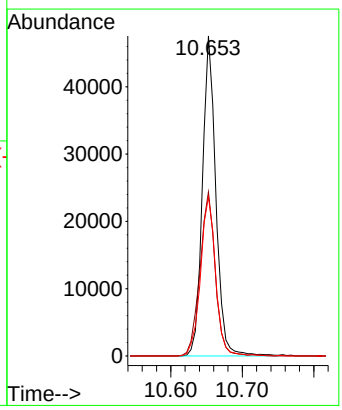
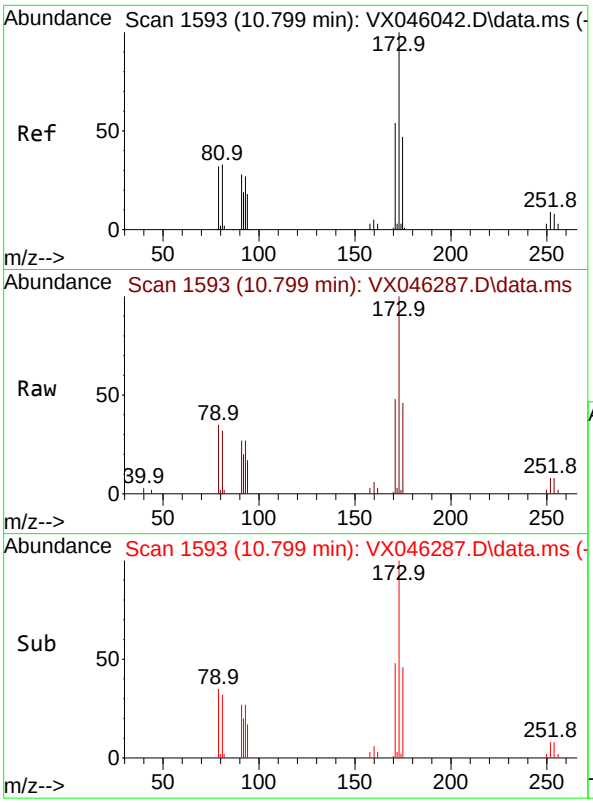



#70
Styrene
Concen: 21.194 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:104 Resp: 62320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 58.0 | 45.7 | 68.5 |
| 103 | 55.7 | 43.7 | 65.5 |

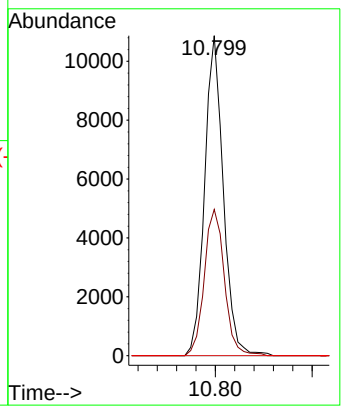





#71
Bromoform
Concen: 19.934 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:173 Resp: 1459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.2 | 23.4 | 70.0 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/22/2025
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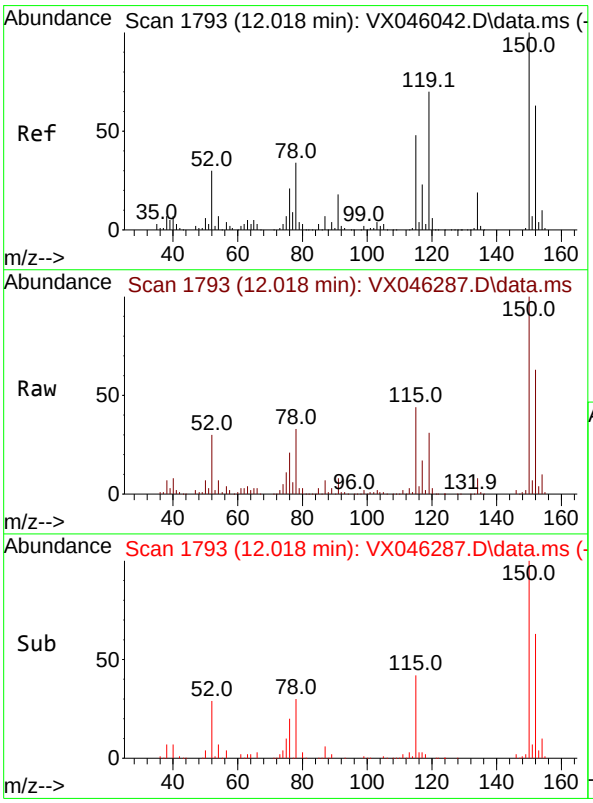
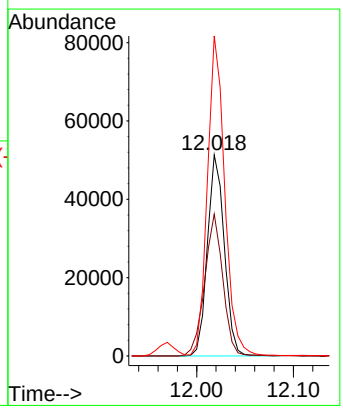
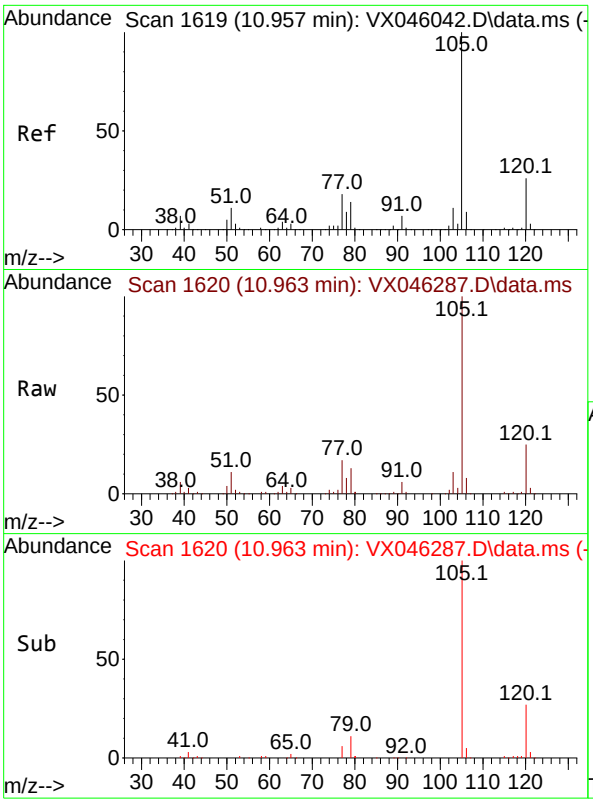



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:152 Resp: 62651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 75.7 | 46.9 | 140.7 |
| 150 | 162.2 | 0.0 | 351.0 |






#73
Isopropylbenzene
Concen: 20.380 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:105 Resp: 9940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.8 | 12.8 | 38.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations APPROVED**

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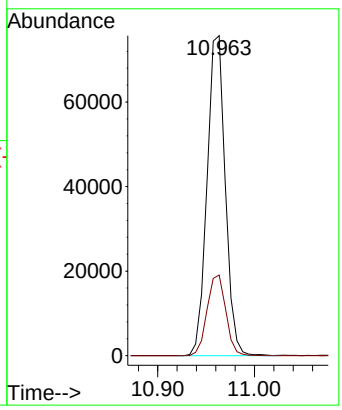
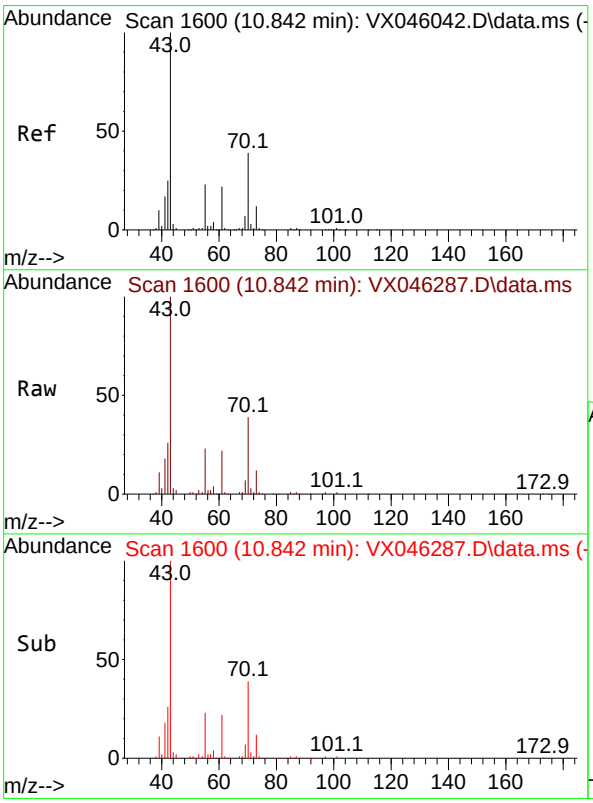
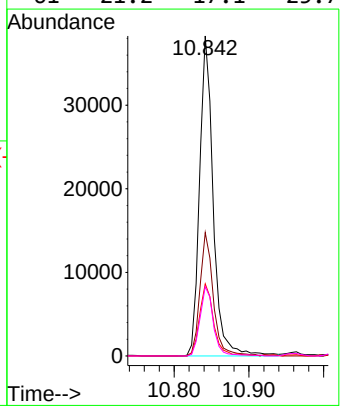


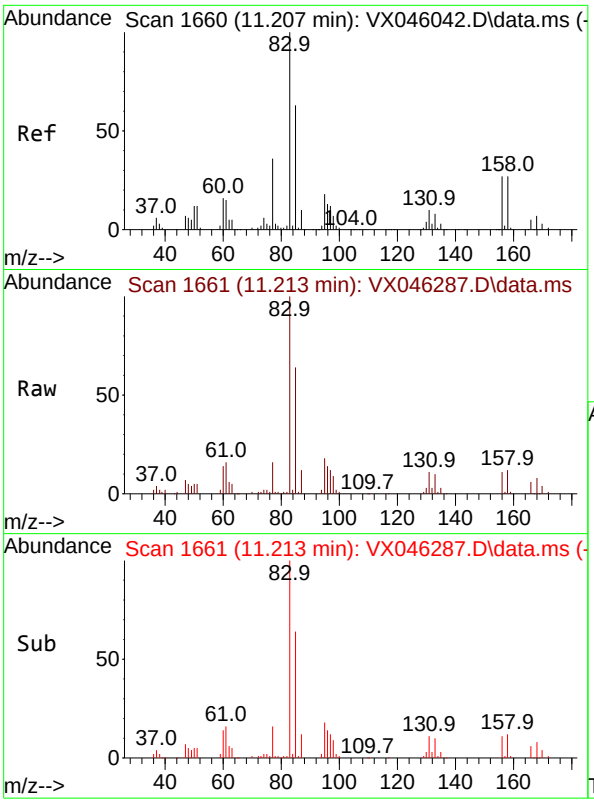




#74
N-amyl acetate
Concen: 20.193 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 43 Resp: 48670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 37.5 | 30.9 | 46.3 |
| 55 | 23.3 | 18.7 | 28.1 |
| 61 | 21.2 | 17.1 | 25.7 |






#75
1,1,2,2-Tetrachloroethane
Concen: 20.427 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

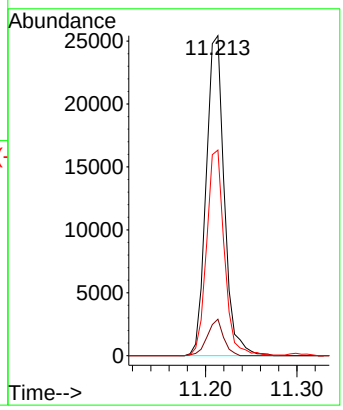
Tgt Ion: 83 Resp: 3491

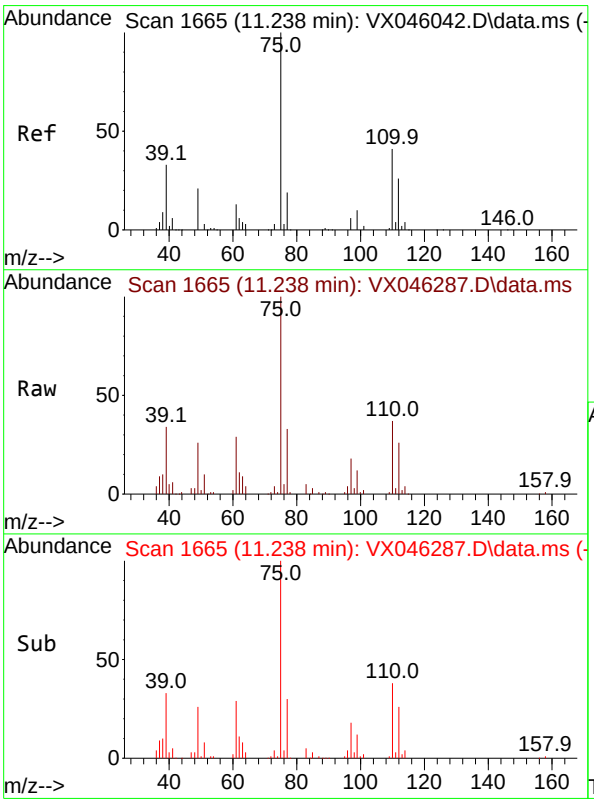
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.2 | 5.0 | 14.9 |
| 85 | 63.1 | 31.9 | 95.7 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

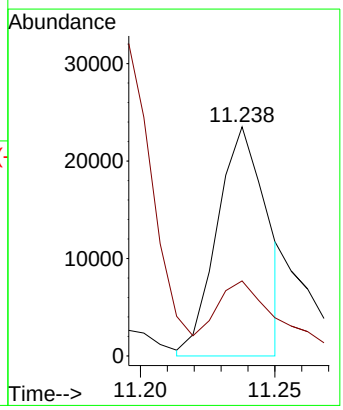


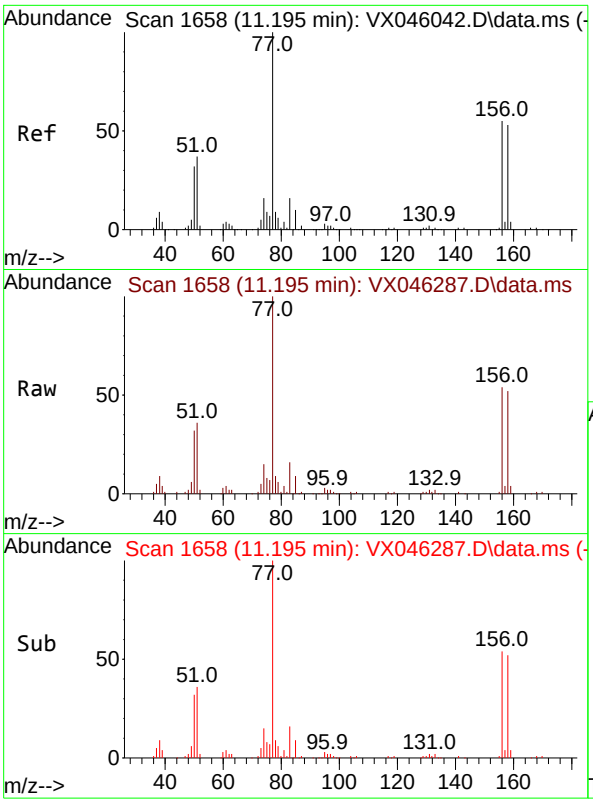




#76
1,2,3-Trichloropropane
Concen: 20.019 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 75 Resp: 30189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 42.9 | 20.5 | 61.5 |

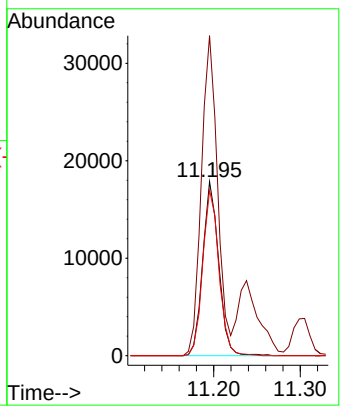





#77
Bromobenzene
Concen: 20.285 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:156 Resp: 2297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 185.3 | 92.8 | 278.3 |
| 158 | 96.3 | 48.8 | 146.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
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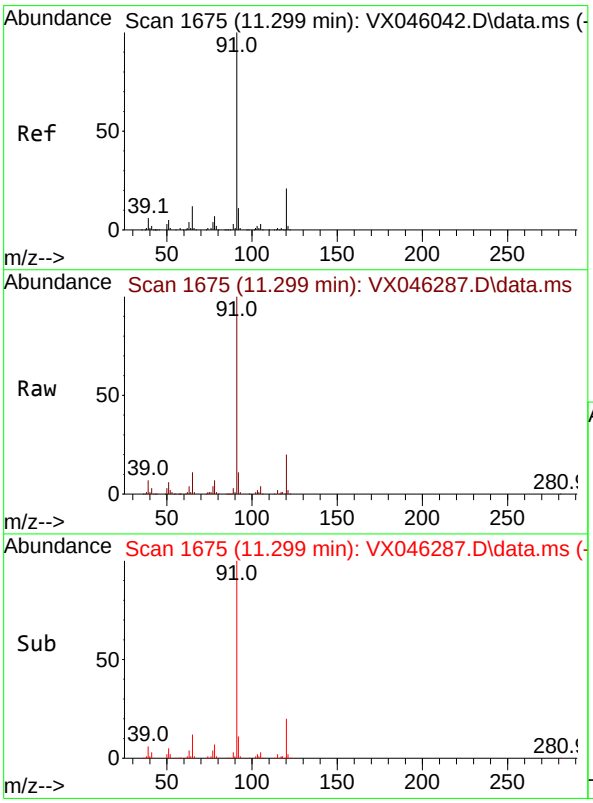
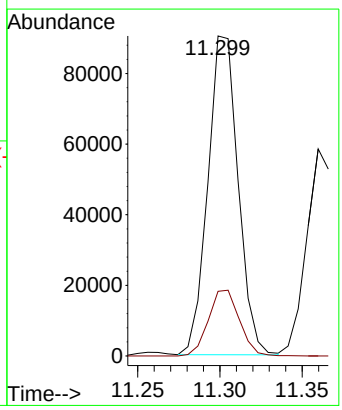
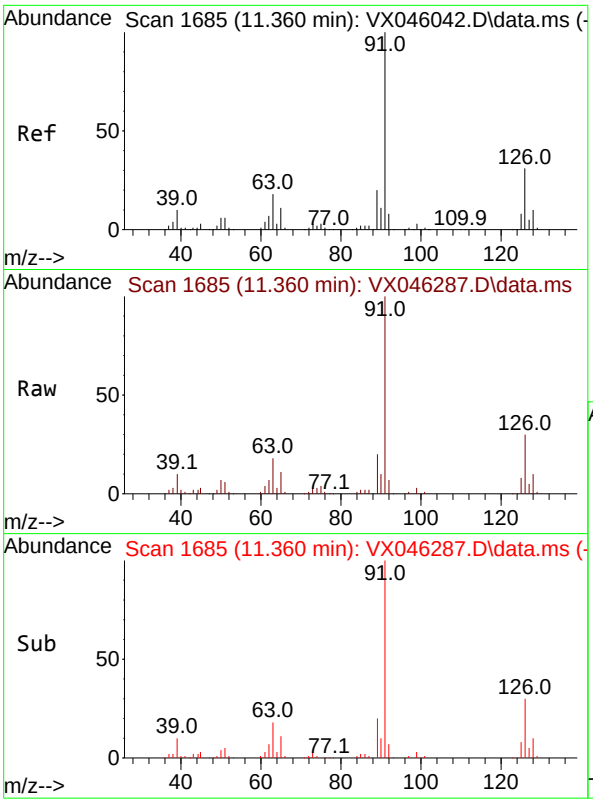



#78
n-propylbenzene
Concen: 20.405 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 91 Resp: 115726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.2 | 10.8 | 32.4 |






#79
2-Chlorotoluene
Concen: 20.320 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 91 Resp: 7433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.2 | 15.6 | 46.7 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations APPROVED**

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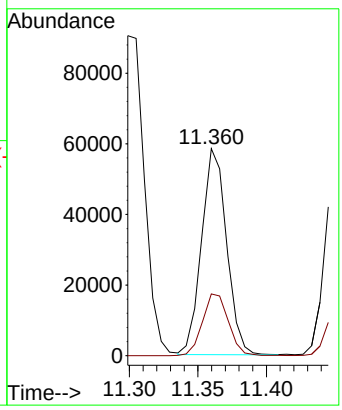
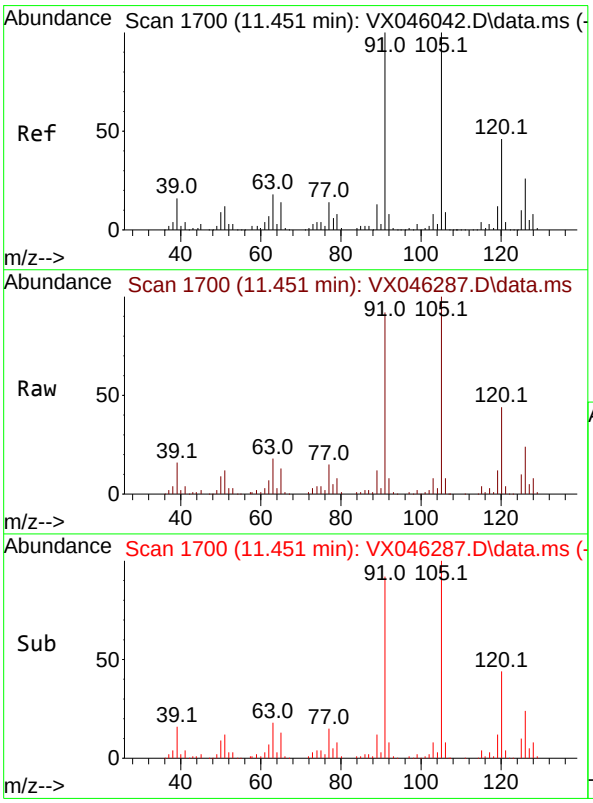
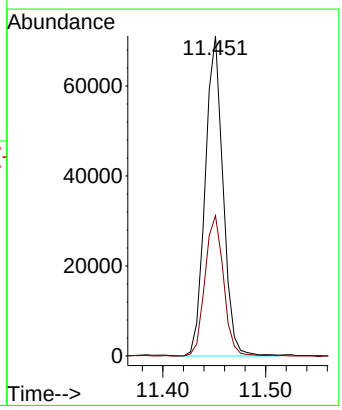


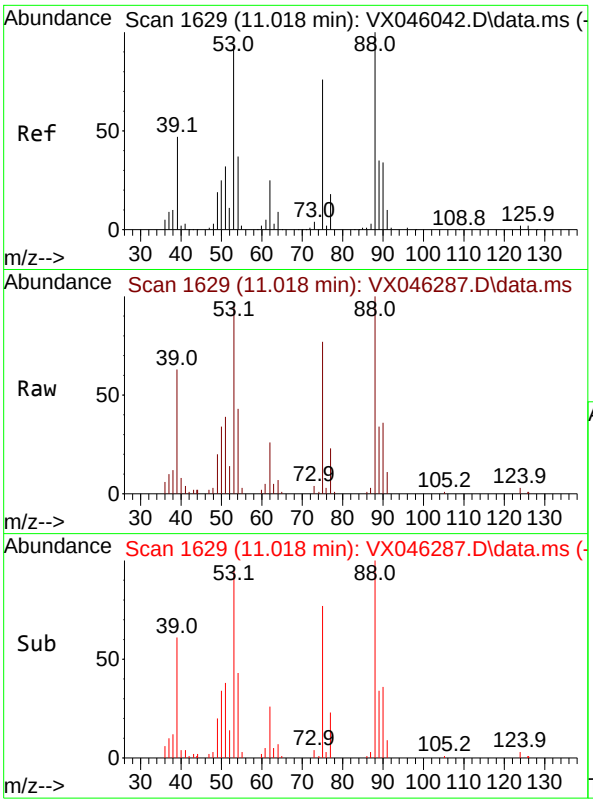




#80
1,3,5-Trimethylbenzene
Concen: 21.070 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:105 Resp: 85859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.5 | 23.1 | 69.2 |






#81
trans-1,4-Dichloro-2-butene
Concen: 19.287 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 75 Resp: 893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 130.2 | 100.5 | 150.7 |
| 89 | 44.9 | 37.0 | 55.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/22/2025
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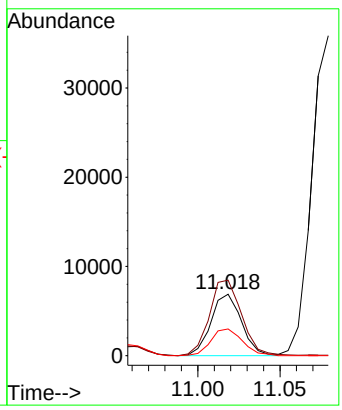
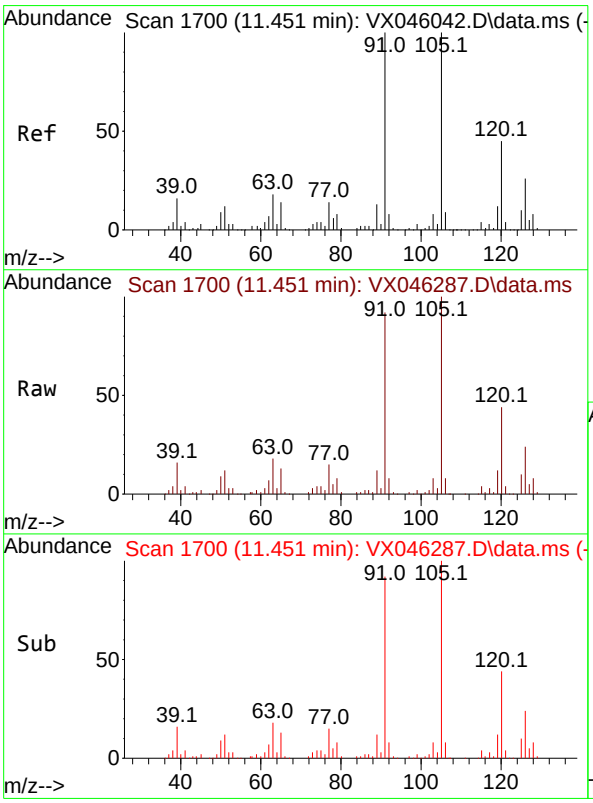
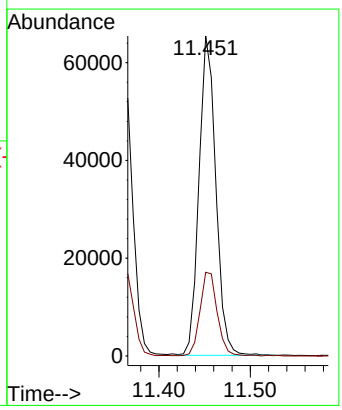


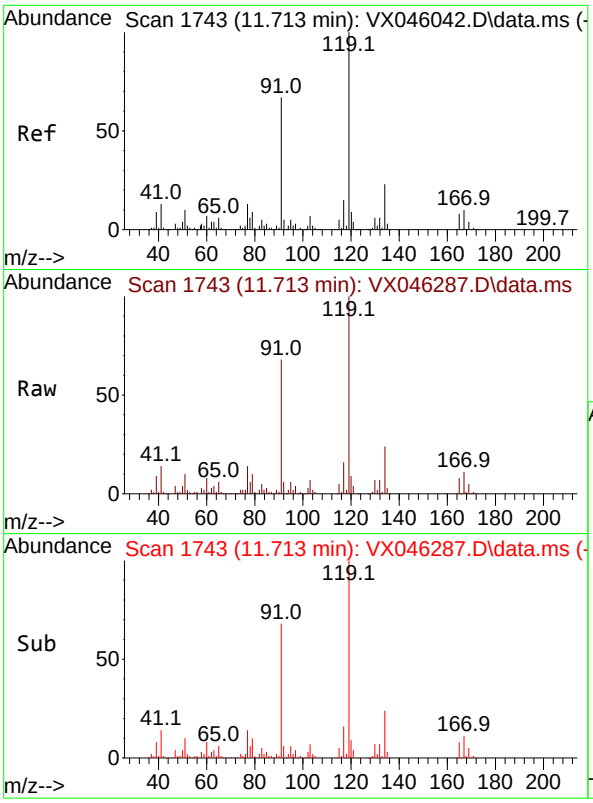




#82
4-Chlorotoluene
Concen: 20.550 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 91 Resp: 83363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 26.9 | 13.3 | 39.8 |

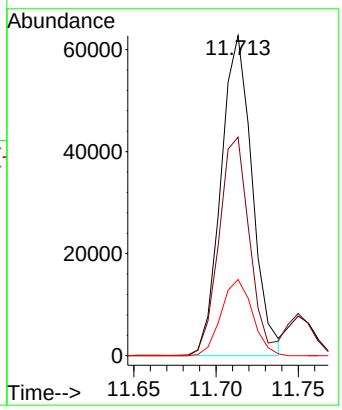





#83
tert-Butylbenzene
Concen: 20.208 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:119 Resp: 8294

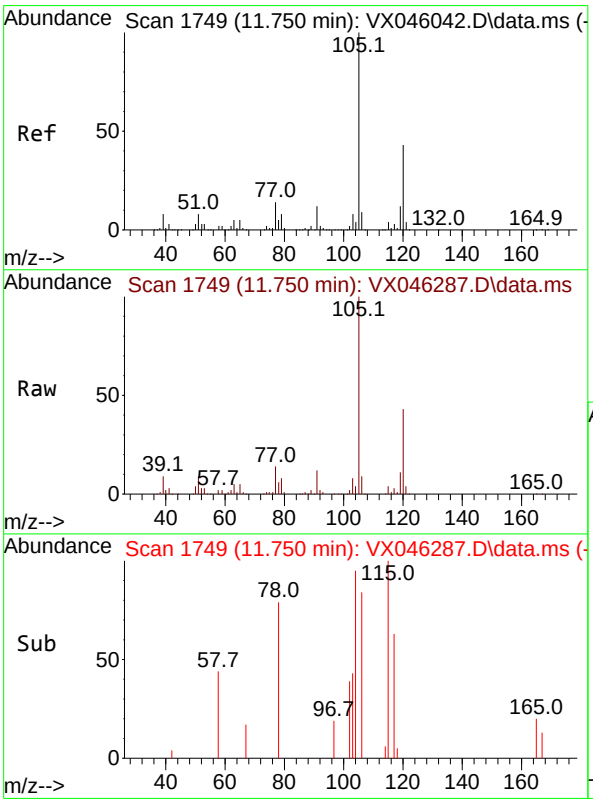
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.2 | 32.9 | 98.7 |
| 134 | 23.8 | 11.4 | 34.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations APPROVED**

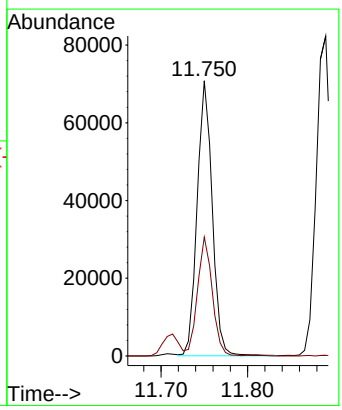
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

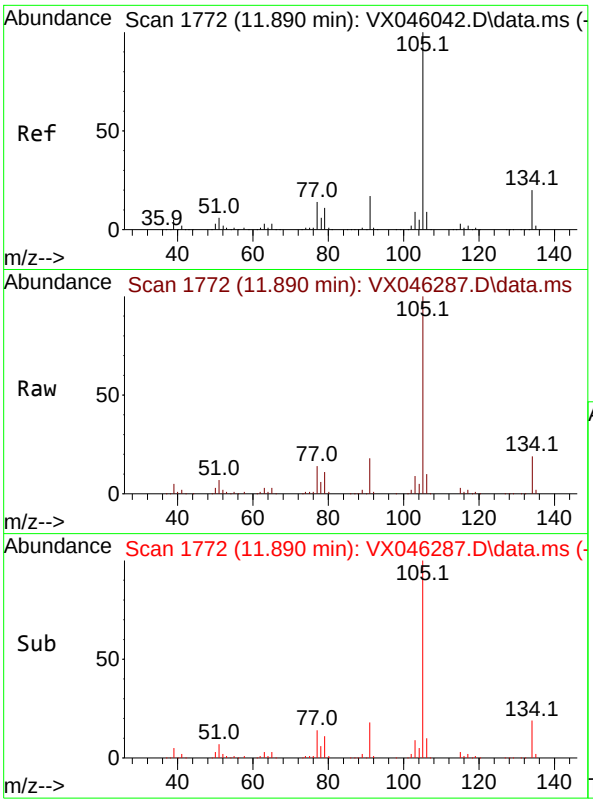



#84
1,2,4-Trimethylbenzene
Concen: 20.726 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:105 Resp: 85525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.8 | 21.2 | 63.6 |






#85
sec-Butylbenzene
Concen: 20.349 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

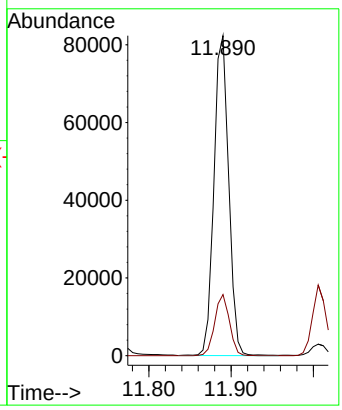
Tgt Ion:105 Resp: 10255

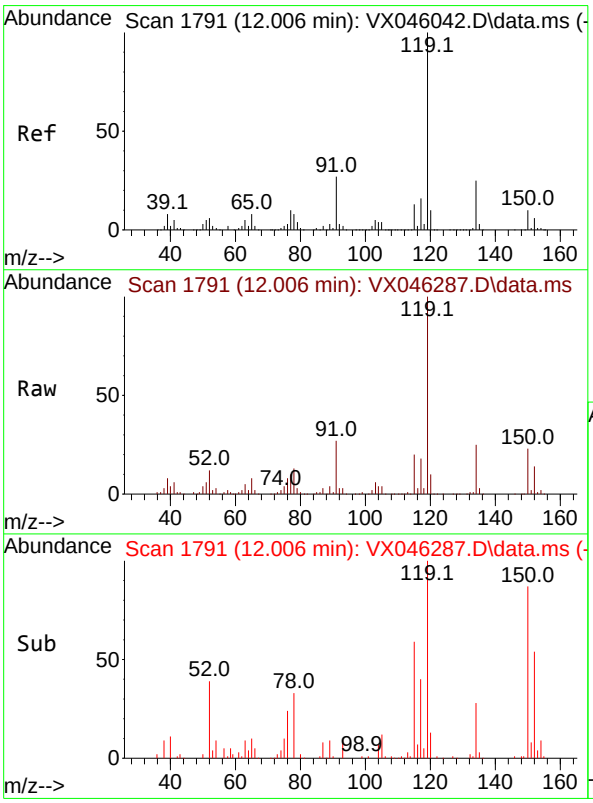
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.1 | 9.7 | 29.1 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

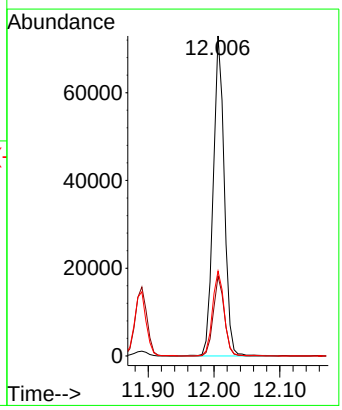


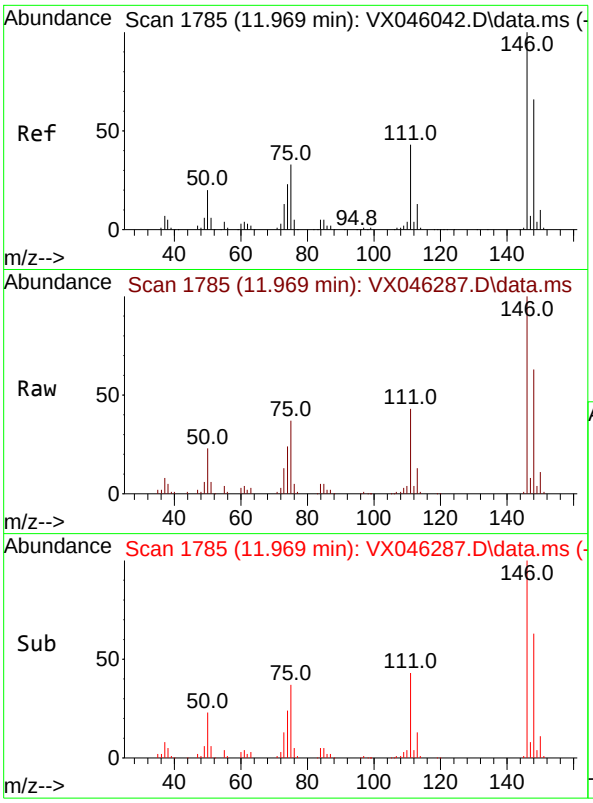




#86
p-Isopropyltoluene
Concen: 20.514 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:119 Resp: 85338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.6 | 12.5 | 37.5 |
| 91 | 27.8 | 13.8 | 41.4 |

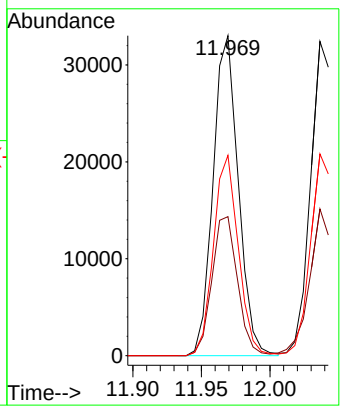





#87
1,3-Dichlorobenzene
Concen: 20.468 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:146 Resp: 4230

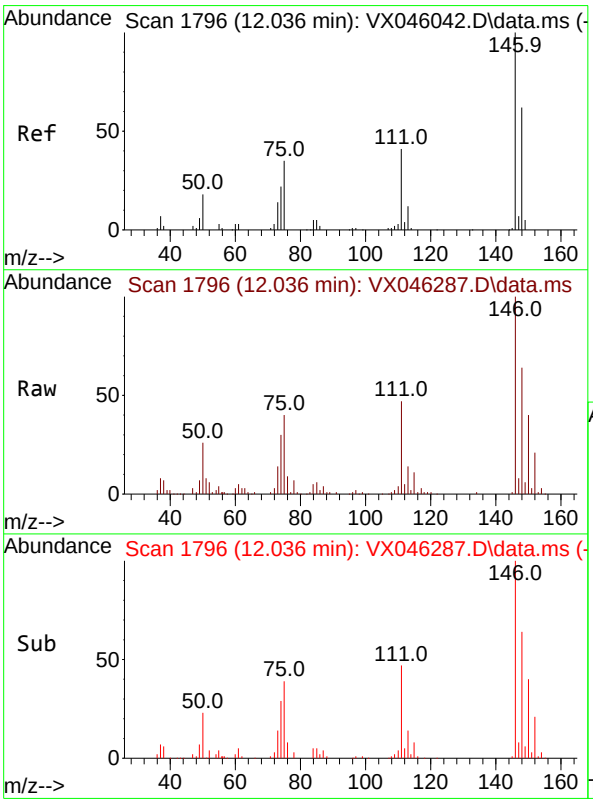
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.2 | 22.1 | 66.3 |
| 148 | 61.6 | 32.1 | 96.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations APPROVED**

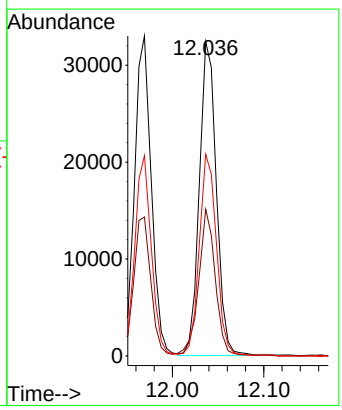
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

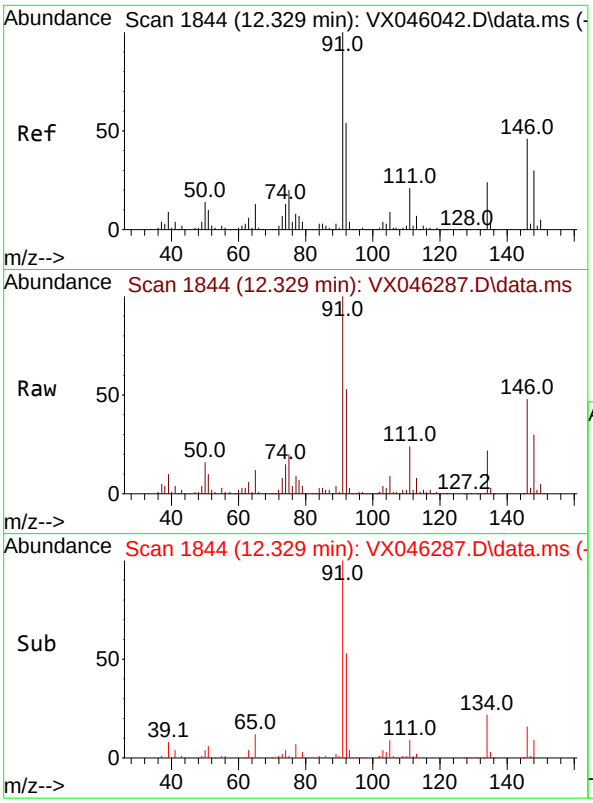



#88
1,4-Dichlorobenzene
Concen: 19.797 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:146 Resp: 41784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.6 | 21.3 | 63.9 |
| 148 | 64.4 | 31.9 | 95.5 |

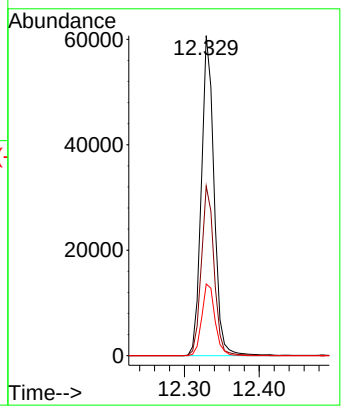





#89
n-Butylbenzene
Concen: 19.656 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 91 Resp: 7172

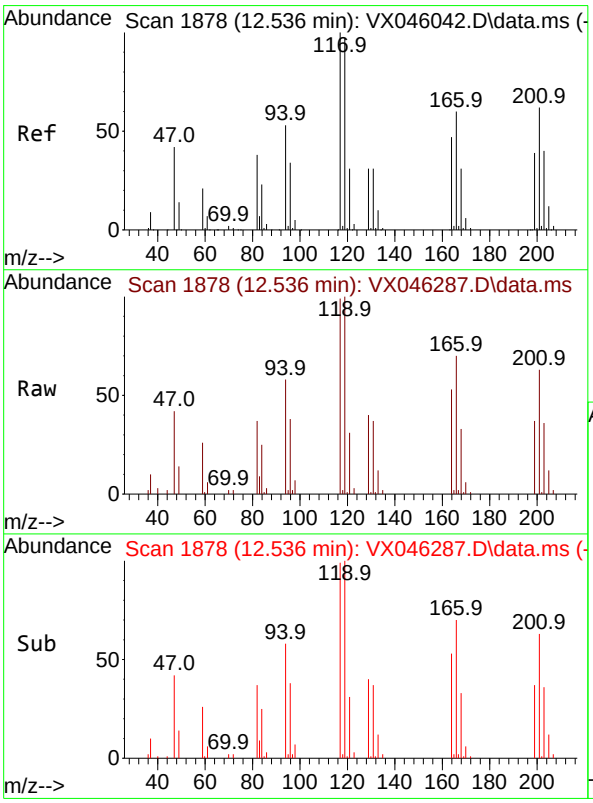
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.3 | 26.9 | 80.7 |
| 134 | 23.3 | 11.8 | 35.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
**APPROVED**

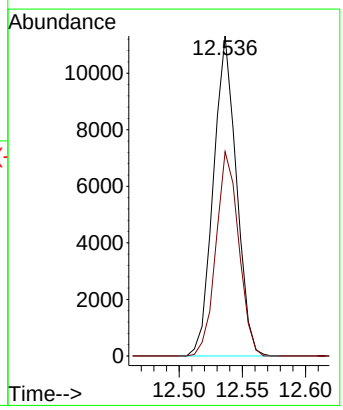
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

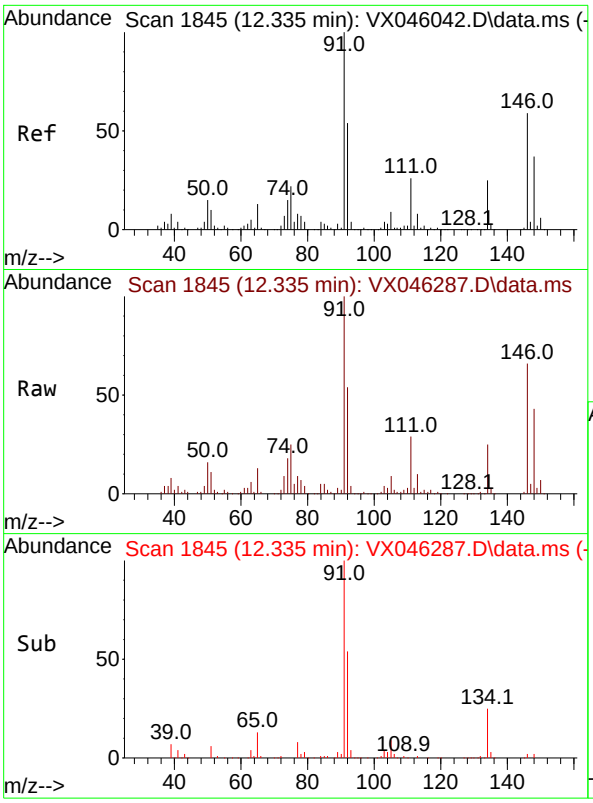



#90
Hexachloroethane
Concen: 19.520 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:117 Resp: 14306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.1 | 31.6 | 94.7 |

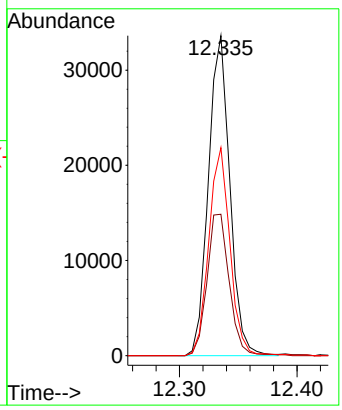





#91
1,2-Dichlorobenzene
Concen: 20.529 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:146 Resp: 4257

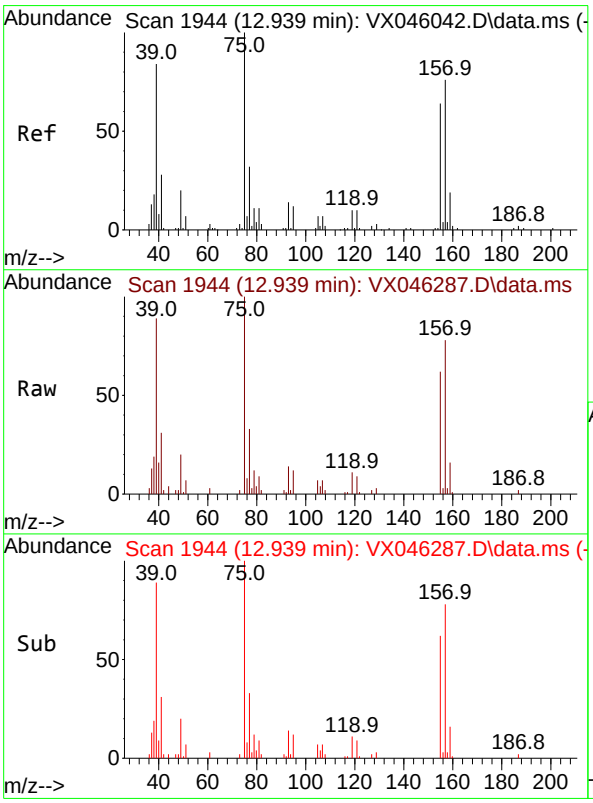
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.9 | 22.4 | 67.3 |
| 148 | 64.3 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations APPROVED**

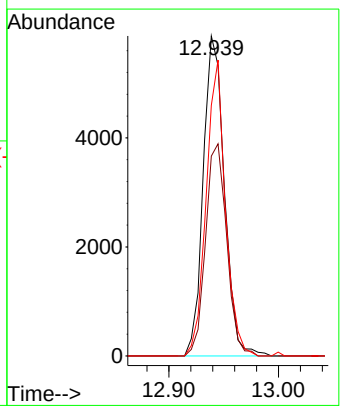
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

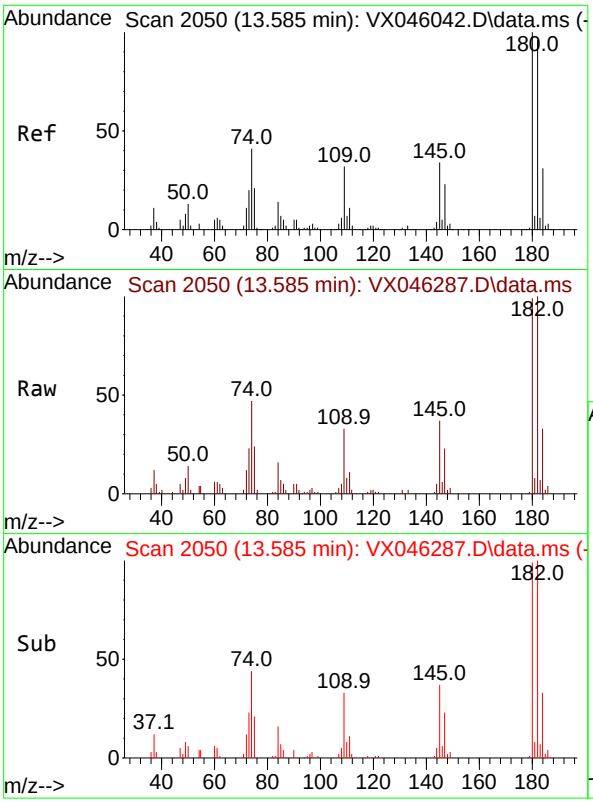



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.757 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion: 75 Resp: 7860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 66.5 | 34.9 | 104.8 |
| 157 | 84.2 | 43.8 | 131.4 |

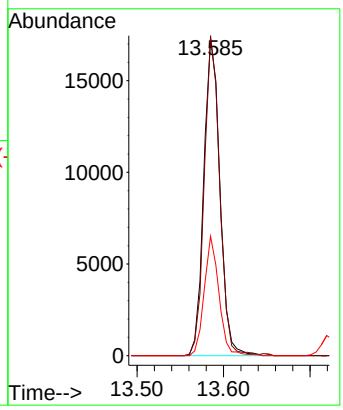





#93
1,2,4-Trichlorobenzene
Concen: 18.785 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:180 Resp: 2237

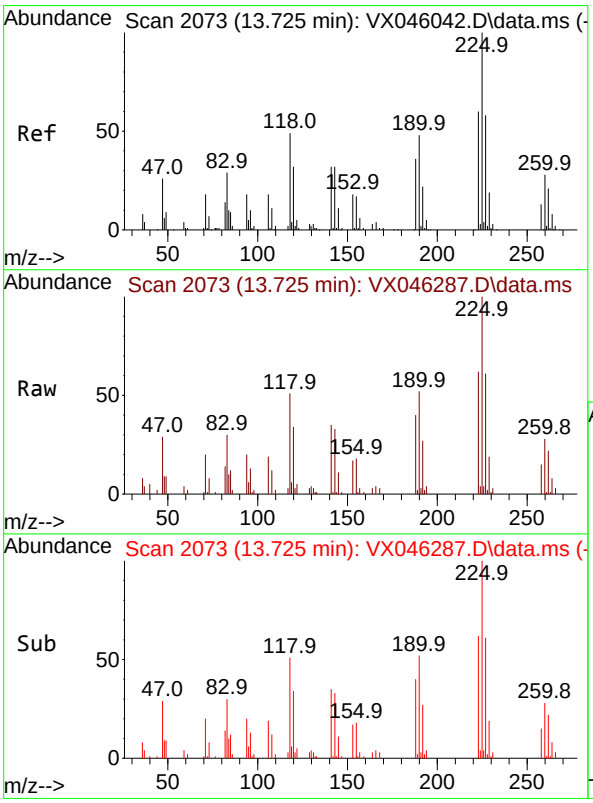
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.8 | 47.9 | 143.8 |
| 145 | 34.4 | 17.1 | 51.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
**APPROVED**

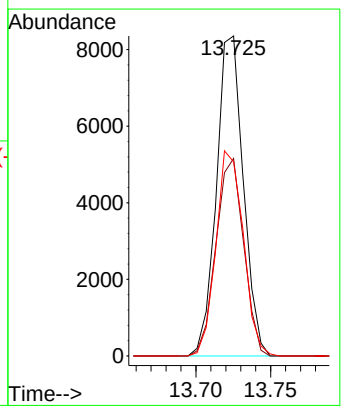
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

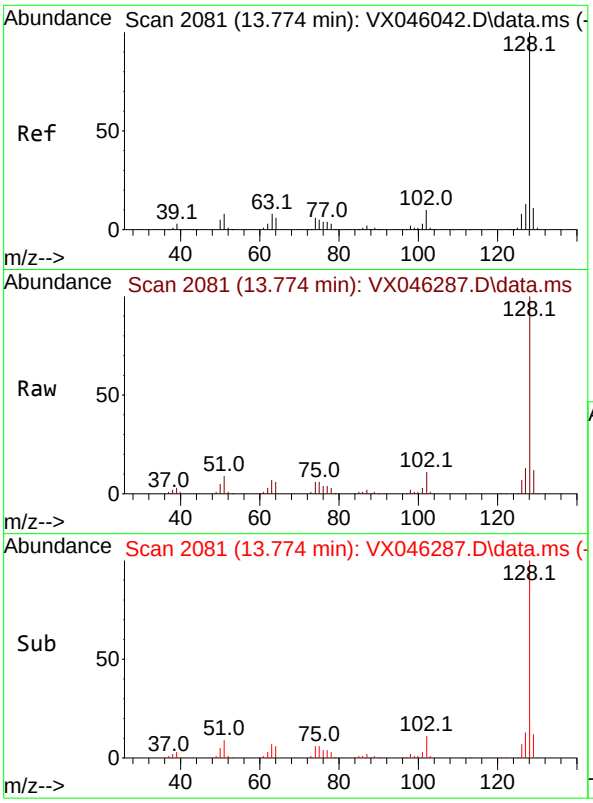



#94
Hexachlorobutadiene
Concen: 20.103 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:225 Resp: 10458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.5 | 30.8 | 92.4 |
| 227 | 65.2 | 30.9 | 92.7 |

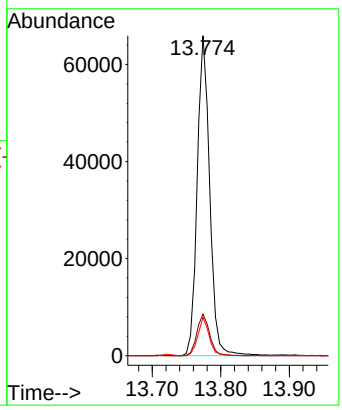





#95
Naphthalene
Concen: 19.190 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:128 Resp: 8383

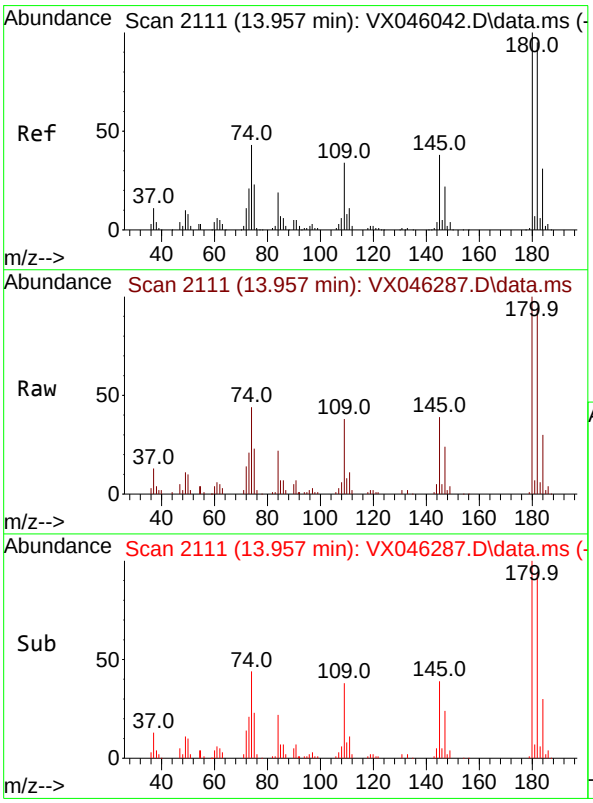
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.1 | 10.4 | 15.6 |
| 129 | 10.9 | 8.6 | 13.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBS01

**Manual Integrations**
**APPROVED**

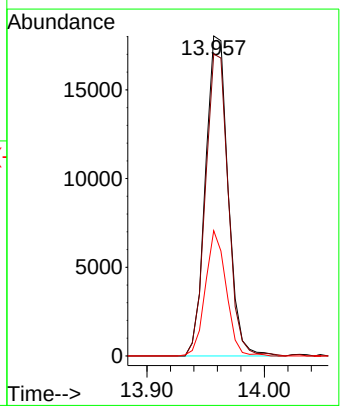
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025




#96
1,2,3-Trichlorobenzene
Concen: 19.602 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046287.D
Acq: 21 May 2025 11:09

Tgt Ion:180 Resp: 24092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.6 | 47.8 | 143.3 |
| 145 | 36.0 | 18.1 | 54.3 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | |
| Client Sample ID: | VX0523MBS01 | SDG No.: | Q2075 |
| Lab Sample ID: | VX0523MBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | 100 uL | Test: | VOCMS Group3 |
| GC Column: | DB-624UI ID : 0.18 | Level : | MED |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046335.D | 1 | | 05/23/25 11:23 | VX052325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 2000 | | 79.0 | 500 | ug/Kg |
| 108-88-3 | Toluene | 2000 | | 78.0 | 500 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2000 | | 67.0 | 500 | ug/Kg |
| 1330-20-7 | Total Xylenes | 6100 | | 202 | 1500 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2000 | | 78.0 | 500 | ug/Kg |
| 103-65-1 | n-propylbenzene | 1900 | | 73.0 | 500 | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2100 | | 82.0 | 500 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 2000 | | 67.0 | 500 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2000 | | 64.0 | 500 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 2000 | | 66.0 | 500 | ug/Kg |
| 99-87-6 | p-Isopropyltoluene | 2000 | | 62.0 | 500 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 1900 | | 150 | 500 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.0 | | 63 - 155 | 104% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.4 | | 70 - 134 | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.3 | | 74 - 123 | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.8 | | 38 - 136 | 104% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 83300 | 5.544 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 146000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 129000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 63300 | 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\VX052325\
Data File : VX046335.D
Acq On : 23 May 2025 11:23
Operator : JC/MD
Sample : VX0523MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 22:58:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 83340 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 146324 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 129426 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 63342 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 80793 | 52.000 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 104.000% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 55217 | 52.404 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 104.800% | | | |
| 50) Toluene-d8 | 8.641 | 98 | 183386 | 50.285 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 100.560% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 72498 | 51.824 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 103.640% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.167 | 85 | 24012 | 18.824 | ug/l | 96 |
| 3) Chloromethane | 1.301 | 50 | 22141 | 17.899 | ug/l | 97 |
| 4) Vinyl Chloride | 1.374 | 62 | 20303 | 17.636 | ug/l | 100 |
| 5) Bromomethane | 1.593 | 94 | 9533 | 17.853 | ug/l | 97 |
| 6) Chloroethane | 1.673 | 64 | 11803 | 19.205 | ug/l # | 88 |
| 7) Trichlorofluoromethane | 1.874 | 101 | 33076 | 19.440 | ug/l | 100 |
| 8) Diethyl Ether | 2.136 | 74 | 11188 | 19.316 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 20510 | 19.479 | ug/l | 96 |
| 10) Methyl Iodide | 2.447 | 142 | 22217 | 17.832 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.971 | 59 | 24119 | 110.589 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.313 | 96 | 18073 | 18.289 | ug/l | 96 |
| 13) Acrolein | 2.233 | 56 | 22344 | 89.960 | ug/l | 96 |
| 14) Allyl chloride | 2.660 | 41 | 37635 | 19.927 | ug/l | 97 |
| 15) Acrylonitrile | 3.063 | 53 | 67193 | 107.745 | ug/l | 97 |
| 16) Acetone | 2.380 | 43 | 65887 | 105.763 | ug/l | 100 |
| 17) Carbon Disulfide | 2.502 | 76 | 35408 | 15.113 | ug/l | 98 |
| 18) Methyl Acetate | 2.703 | 43 | 37022 | 25.610 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 72260 | 20.857 | ug/l | 99 |
| 20) Methylene Chloride | 2.782 | 84 | 22554 | 18.892 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 18791 | 18.908 | ug/l | 94 |
| 22) Diisopropyl ether | 3.758 | 45 | 77884 | 21.349 | ug/l | 97 |
| 23) Vinyl Acetate | 3.715 | 43 | 329587 | 102.717 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 41400 | 20.374 | ug/l | 99 |
| 25) 2-Butanone | 4.556 | 43 | 98390 | 108.788 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 30656 | 19.275 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 24119 | 20.160 | ug/l | 100 |
| 28) Bromochloromethane | 4.891 | 49 | 22388 | 22.890 | ug/l | 96 |
| 29) Tetrahydrofuran | 5.001 | 42 | 61453 | 108.434 | ug/l | 99 |
| 30) Chloroform | 5.087 | 83 | 44553 | 21.036 | ug/l | 97 |
| 31) Cyclohexane | 5.465 | 56 | 34494 | 18.629 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 37180 | 20.251 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 26465 | 18.693 | ug/l | 99 |
| 37) Ethyl Acetate | 4.709 | 43 | 35825 | 20.482 | ug/l | 100 |
| 38) Carbon Tetrachloride | 5.672 | 117 | 31065 | 19.529 | ug/l | 98 |
| 39) Methylcyclohexane | 7.373 | 83 | 33998 | 18.653 | ug/l | 96 |
| 40) Benzene | 6.032 | 78 | 82957 | 20.005 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046335.D
Acq On : 23 May 2025 11:23
Operator : JC/MD
Sample : VX0523MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 22:58:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 20663 | 22.583 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 37863 | 21.156 | ug/l | | 98 |
| 43) Isopropyl Acetate | 6.336 | 43 | 57284 | 21.467 | ug/l | | 100 |
| 44) Trichloroethene | 7.117 | 130 | 19078 | 19.115 | ug/l | | 88 |
| 45) 1,2-Dichloropropane | 7.428 | 63 | 22417 | 21.740 | ug/l | | 96 |
| 46) Dibromomethane | 7.574 | 93 | 17071 | 20.991 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.818 | 83 | 33730 | 21.058 | ug/l | | 98 |
| 48) Methyl methacrylate | 7.690 | 41 | 29827 | 21.887 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.659 | 88 | 11796 | 455.874 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 8.568 | 43 | 200509 | 113.201 | ug/l | | 98 |
| 52) Toluene | 8.714 | 92 | 51247 | 20.154 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 28285 | 19.867 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 31971 | 20.317 | ug/l | | 90 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 22231 | 22.173 | ug/l | | 99 |
| 56) Ethyl methacrylate | 9.116 | 69 | 34778 | 21.764 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 38469 | 21.364 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 89677 | 110.078 | ug/l | | 100 |
| 59) 2-Hexanone | 9.427 | 43 | 149052 | 113.742 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.519 | 129 | 24084 | 21.873 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 21934 | 21.048 | ug/l | | 97 |
| 64) Tetrachloroethene | 9.269 | 164 | 17973 | 19.627 | ug/l | | 96 |
| 65) Chlorobenzene | 10.073 | 112 | 56685 | 20.010 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 20064 | 20.742 | ug/l | | 98 |
| 67) Ethyl Benzene | 10.189 | 91 | 101034 | 20.233 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 73066 | 40.007 | ug/l | | 96 |
| 69) o-Xylene | 10.640 | 106 | 36611 | 20.562 | ug/l | | 98 |
| 70) Styrene | 10.653 | 104 | 61465 | 21.074 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 14969 | 20.611 | ug/l | # | 100 |
| 73) Isopropylbenzene | 10.957 | 105 | 98814 | 20.038 | ug/l | | 99 |
| 74) N-amyl acetate | 10.842 | 43 | 49793 | 20.434 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 34877 | 20.182 | ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 31782m | 20.845 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 22622 | 19.759 | ug/l | | 100 |
| 78) n-propylbenzene | 11.299 | 91 | 111773 | 19.493 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 72288 | 19.546 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 84521 | 20.516 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 8670 | 18.513 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 82736 | 20.173 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.713 | 119 | 83458 | 20.111 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 84911 | 20.352 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 103088 | 20.232 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 84901 | 20.187 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 41699 | 19.957 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.037 | 146 | 42891 | 20.100 | ug/l | | 98 |
| 89) n-Butylbenzene | 12.329 | 91 | 71274 | 19.320 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 14029 | 18.934 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 43546 | 20.768 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 7983 | 20.852 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 23430 | 19.456 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 10588 | 20.131 | ug/l | | 98 |
| 95) Naphthalene | 13.774 | 128 | 84951 | 19.233 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 24921 | 20.055 | ug/l | | 96 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046335.D
Acq On : 23 May 2025 11:23
Operator : JC/MD
Sample : VX0523MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 22:58:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

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

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

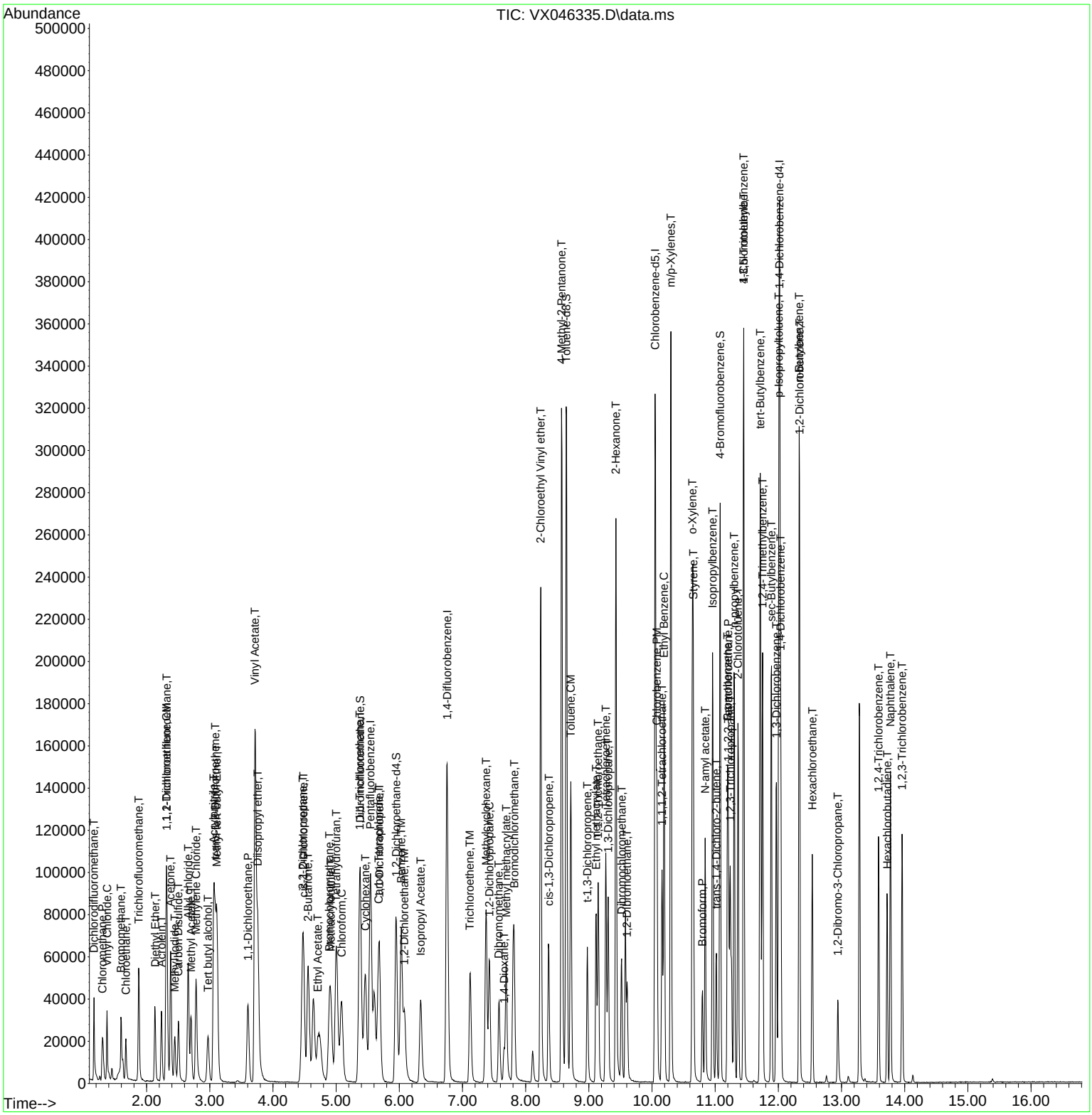
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046335.D
Acq On : 23 May 2025 11:23
Operator : JC/MD
Sample : VX0523MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 6 Sample Multiplier: 1

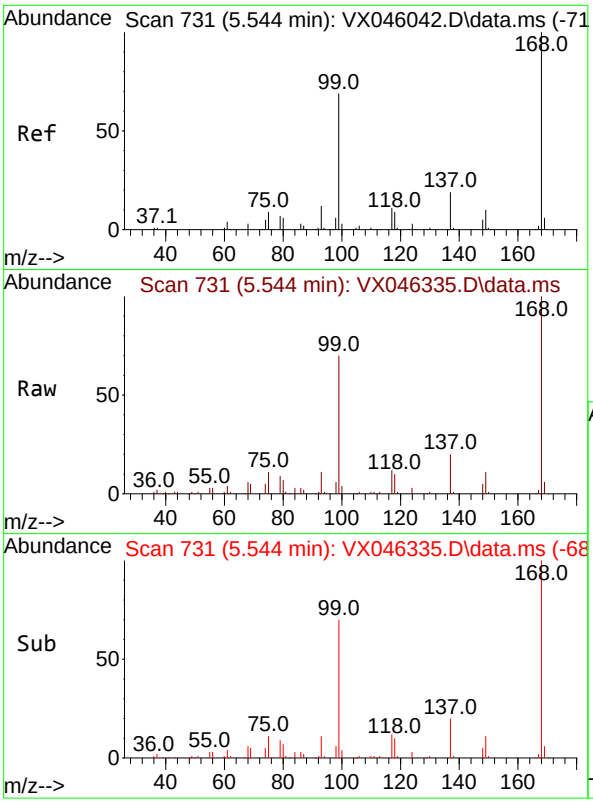
Quant Time: May 23 22:58:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

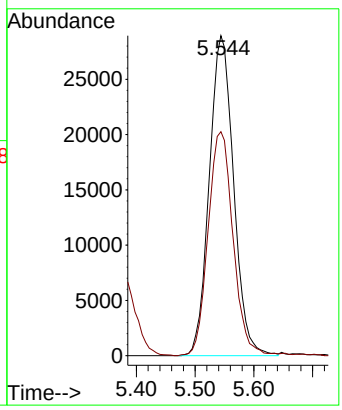





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:168 Resp: 8334

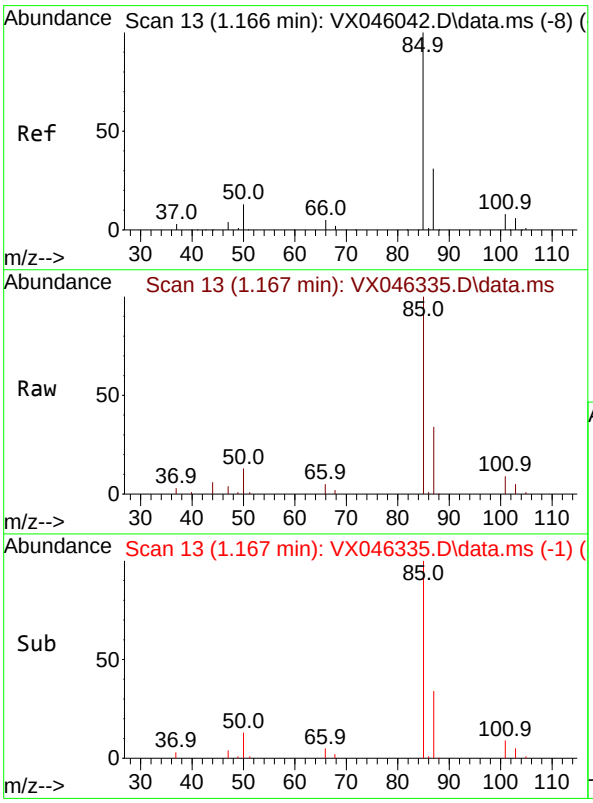
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 70.0 | 54.9 | 82.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

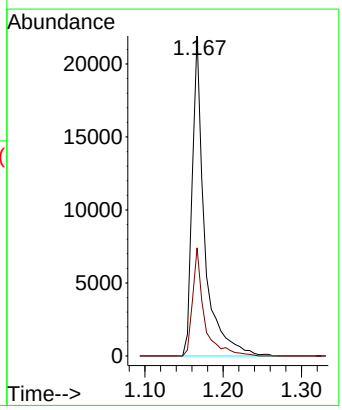
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

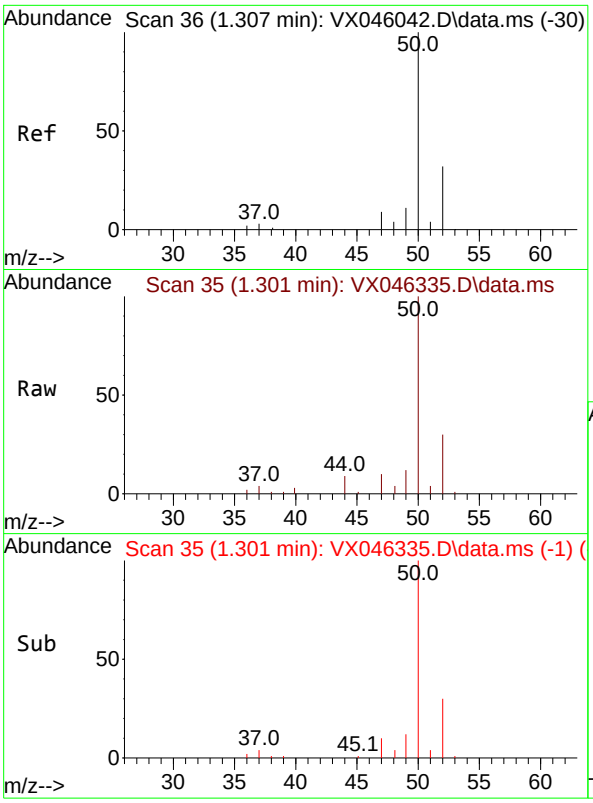



#2
Dichlorodifluoromethane
Concen: 18.824 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 85 Resp: 24012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.8 | 15.7 | 47.1 |

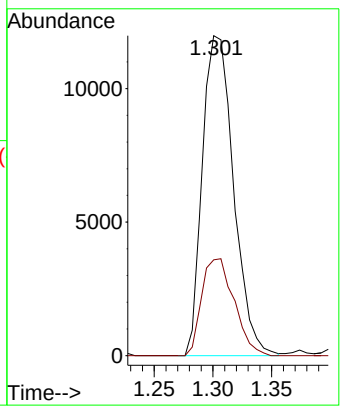





#3
Chloromethane
Concen: 17.899 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 50 Resp: 2214

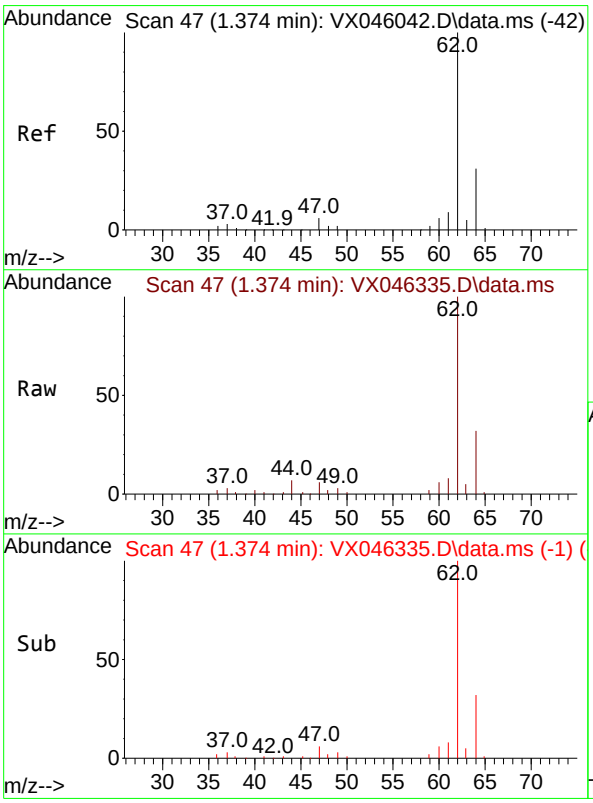
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 29.9 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

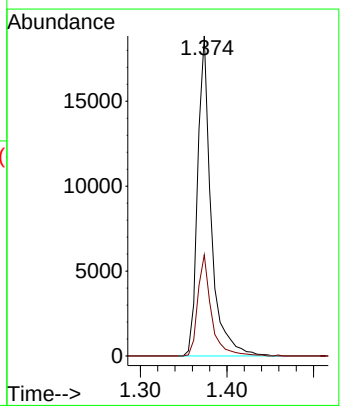
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

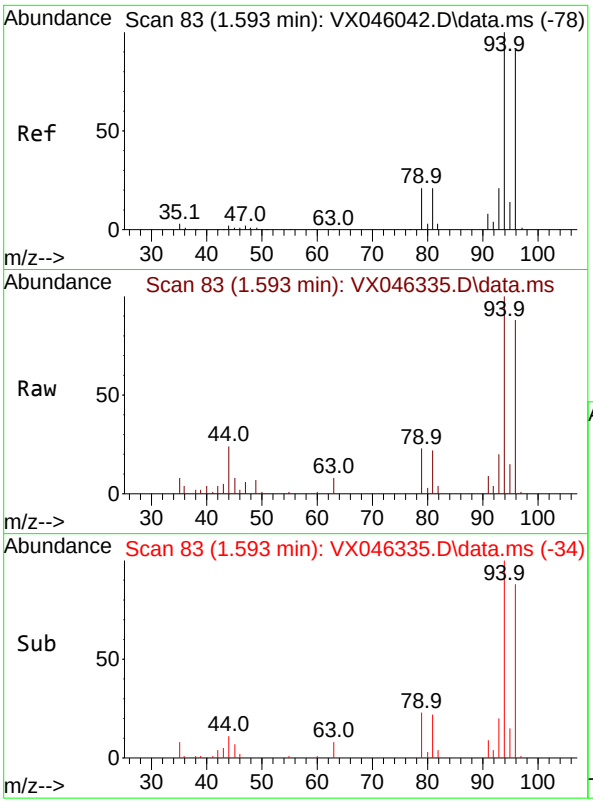



#4
Vinyl Chloride
Concen: 17.636 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 62 Resp: 20303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.6 | 25.2 | 37.8 |

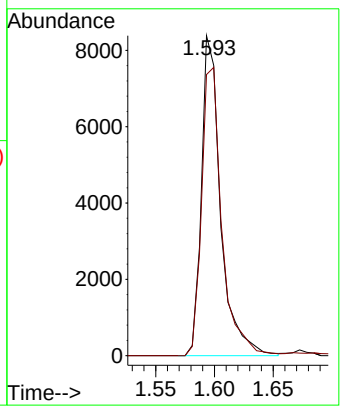





#5
Bromomethane
Concen: 17.853 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 94 Resp: 953

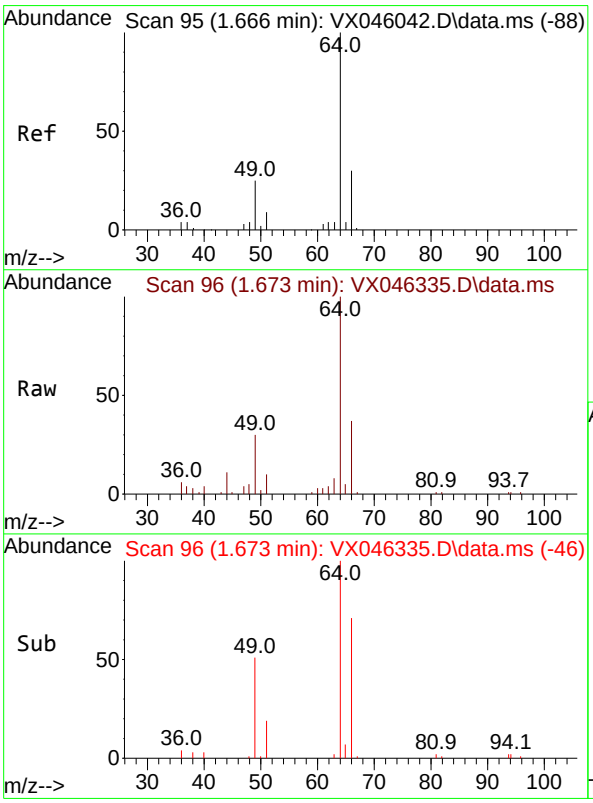
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 87.8 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

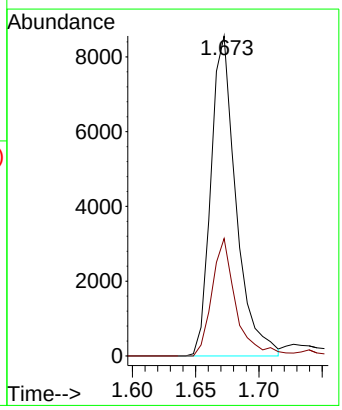
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

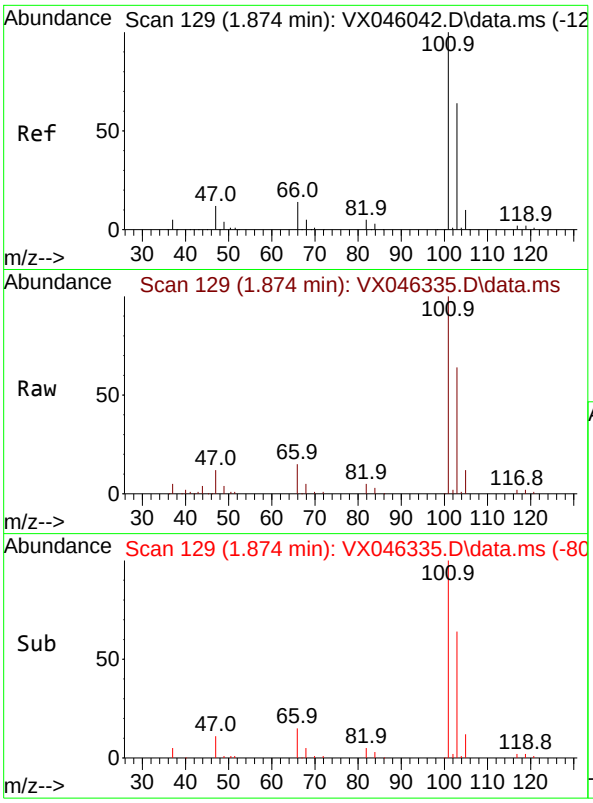



#6
Chloroethane
Concen: 19.205 ug/l
RT: 1.673 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 64 Resp: 11803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 36.7 | 24.3 | 36.5# |

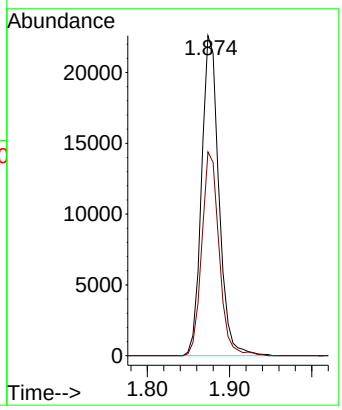





#7
Trichlorofluoromethane
Concen: 19.440 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:101 Resp: 3307

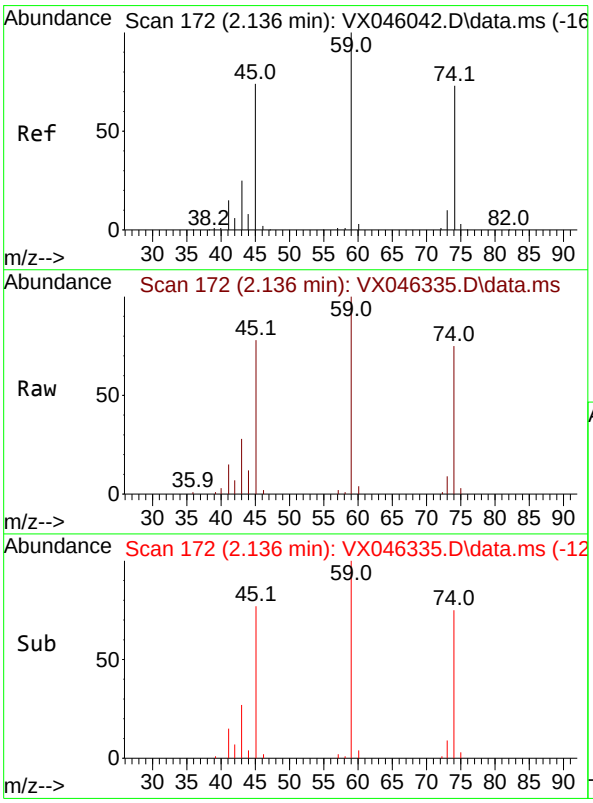
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.7 | 51.0 | 76.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

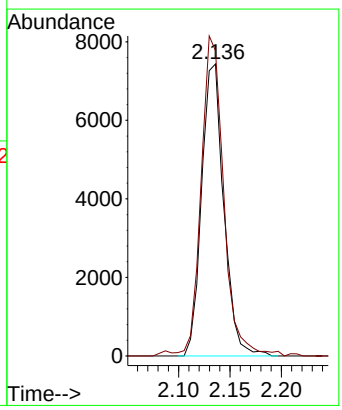
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

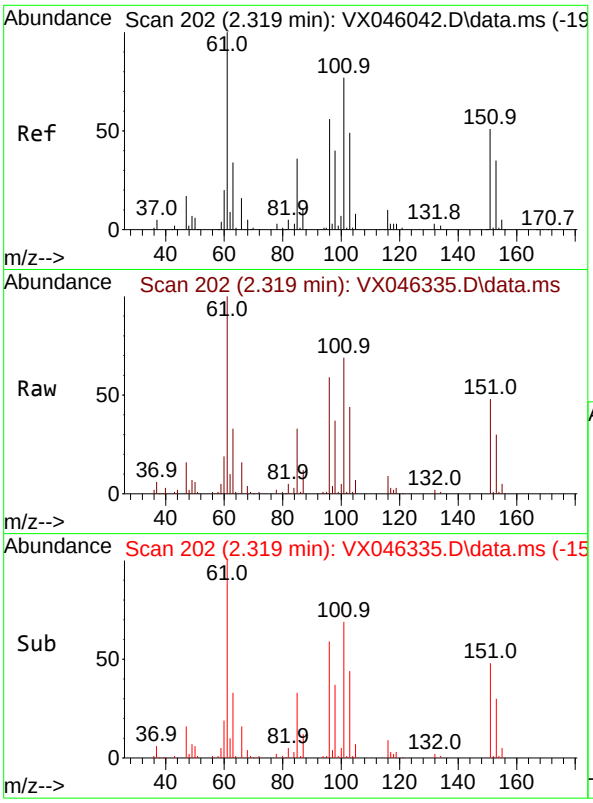



#8
Diethyl Ether
Concen: 19.316 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 74 Resp: 11188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 111.5 | 54.9 | 164.8 |

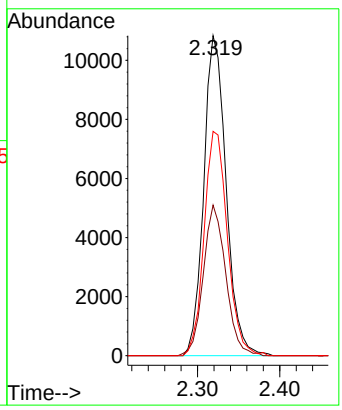





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.479 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:101 Resp: 2051

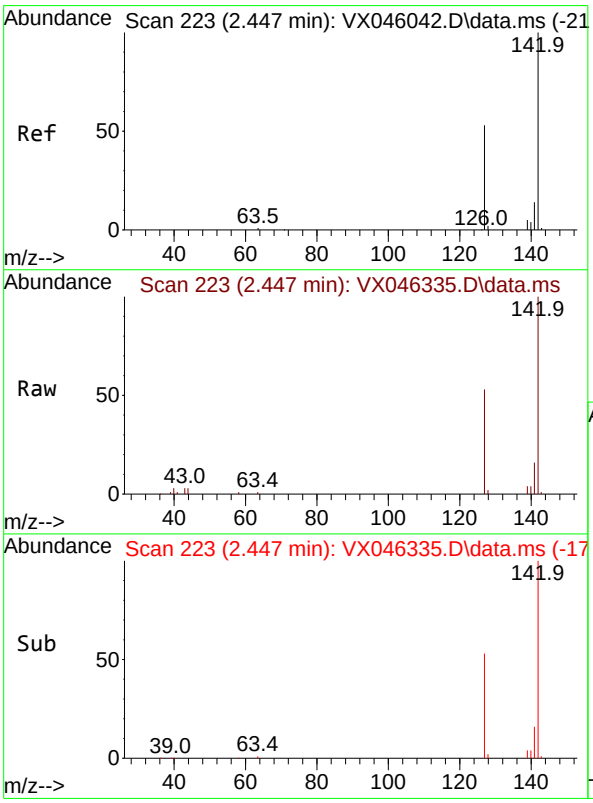
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.3 | 38.6 | 58.0 |
| 151 | 73.0 | 55.2 | 82.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

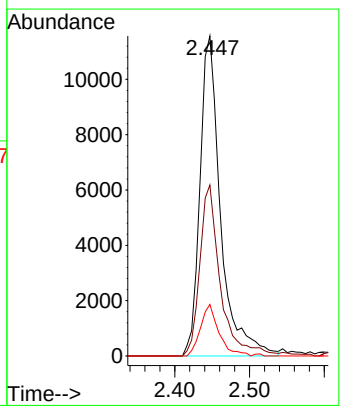
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

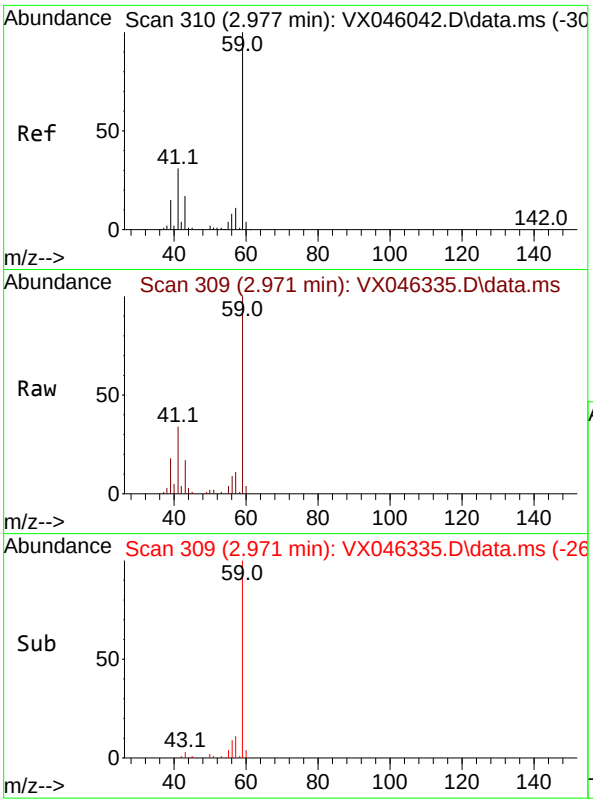



#10
Methyl Iodide
Concen: 17.832 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:142 Resp: 22217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 52.8 | 41.7 | 62.5 |
| 141 | 14.3 | 11.5 | 17.3 |

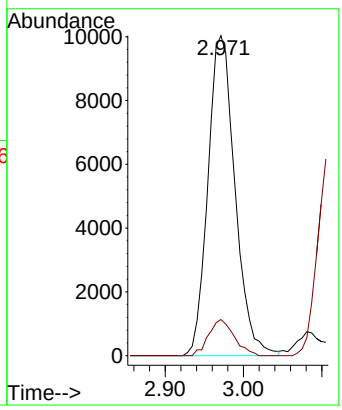





#11
Tert butyl alcohol
Concen: 110.589 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 59 Resp: 2411

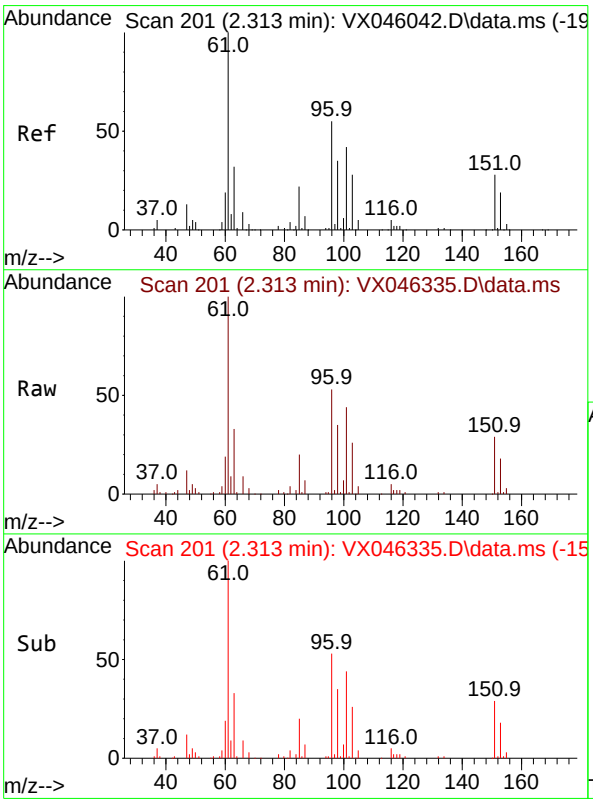
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.7 | 8.6 | 12.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

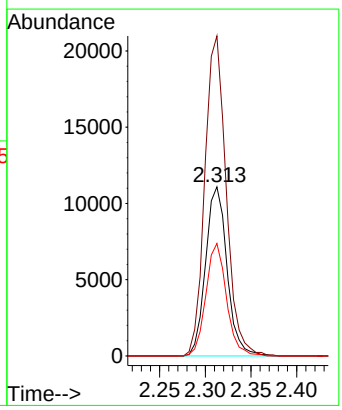
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

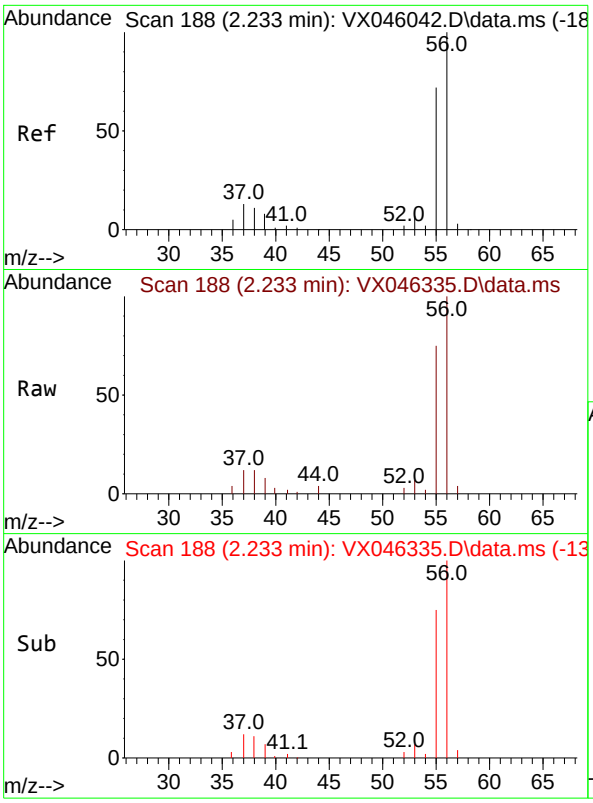



#12
1,1-Dichloroethene
Concen: 18.289 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 96 Resp: 18073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 189.2 | 146.2 | 219.2 |
| 98 | 66.5 | 51.0 | 76.6 |

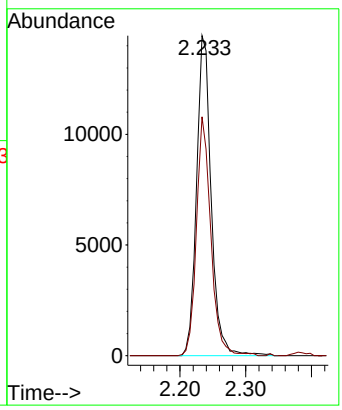





#13
Acrolein
Concen: 89.960 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 56 Resp: 2234

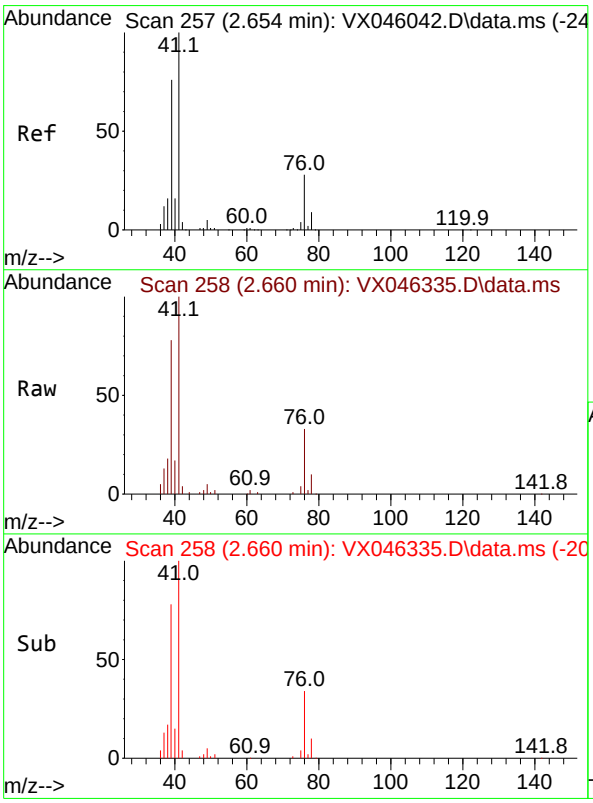
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 73.5 | 56.2 | 84.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

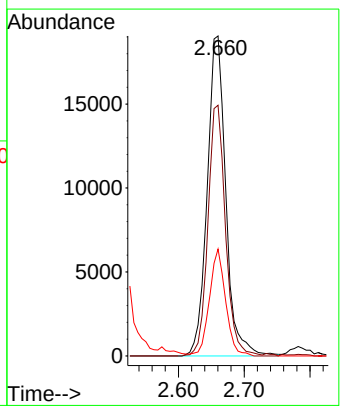
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

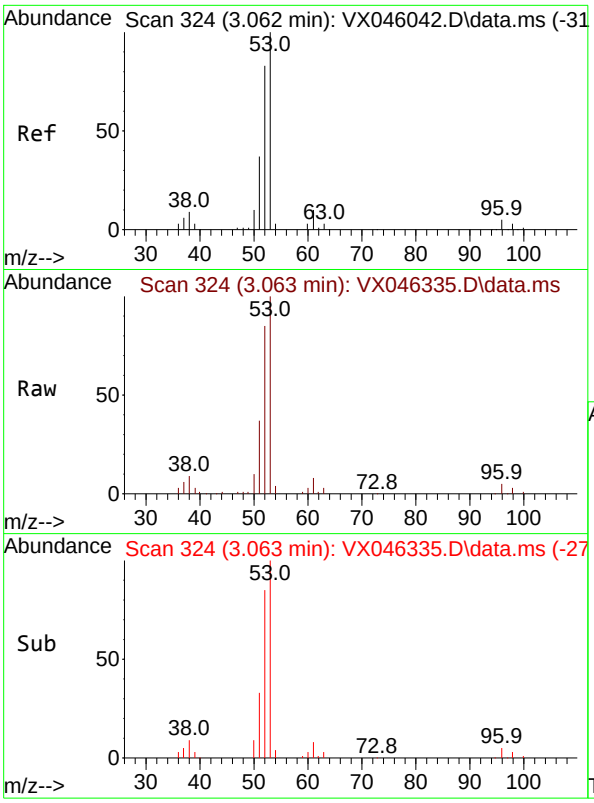



#14
Allyl chloride
Concen: 19.927 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 41 Resp: 37635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 73.6 | 60.6 | 90.8 |
| 76 | 29.0 | 24.9 | 37.3 |

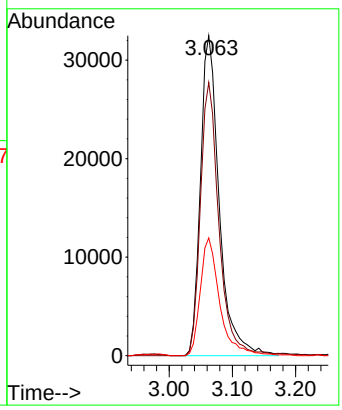





#15
Acrylonitrile
Concen: 107.745 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 53 Resp: 6719

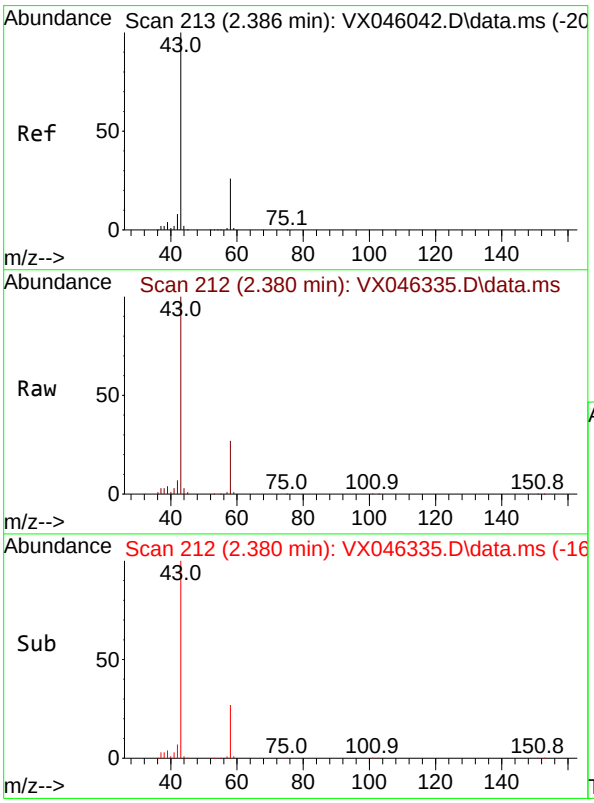
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 84.4 | 65.3 | 97.9 |
| 51 | 38.2 | 29.8 | 44.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

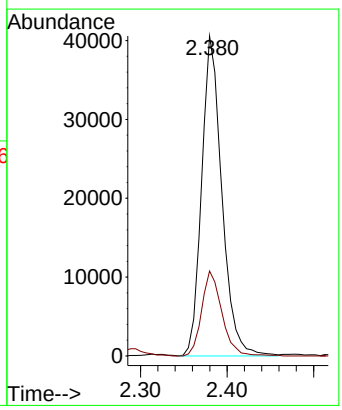
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

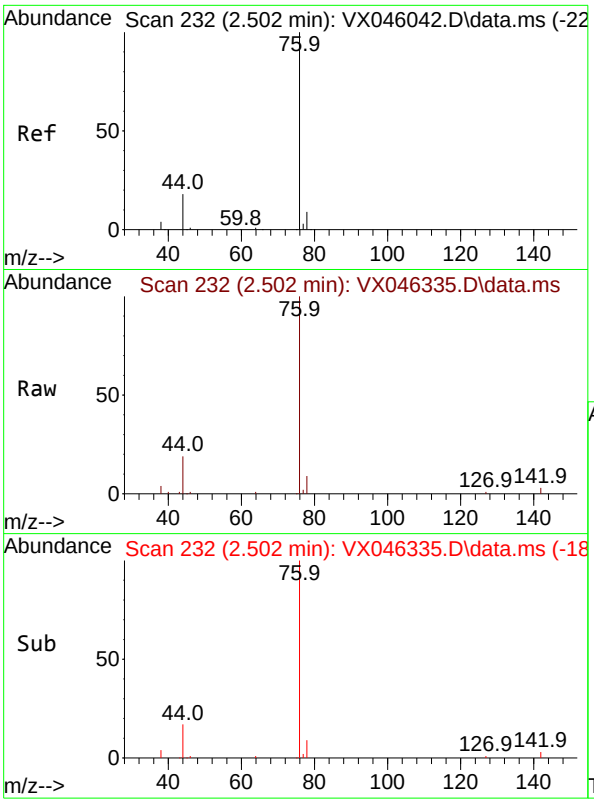



#16
Acetone
Concen: 105.763 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 43 Resp: 65887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.5 | 21.2 | 31.8 |

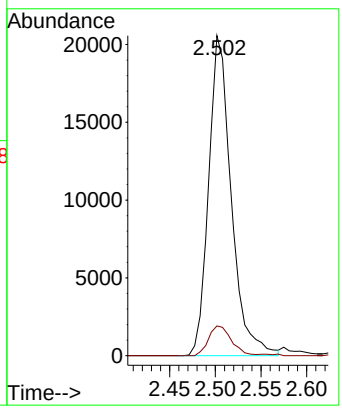





#17
Carbon Disulfide
Concen: 15.113 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 76 Resp: 3540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.3 | 7.0 | 10.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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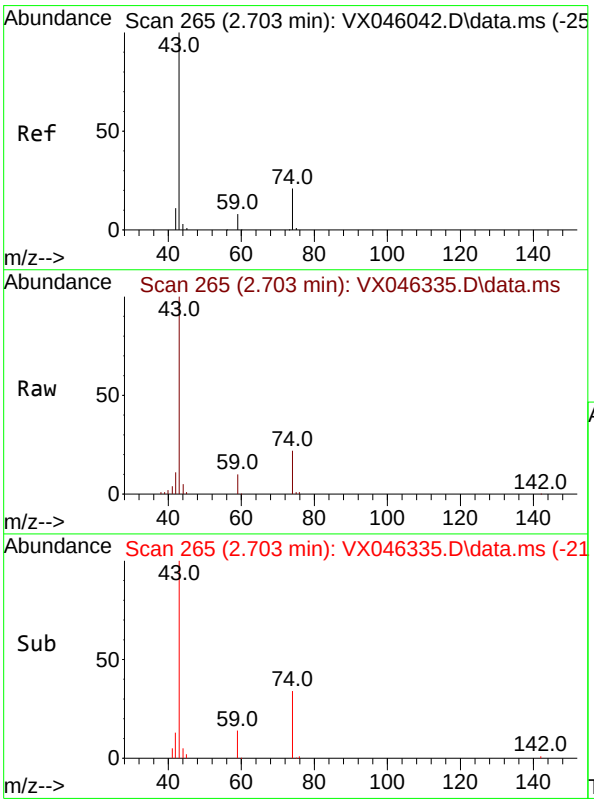
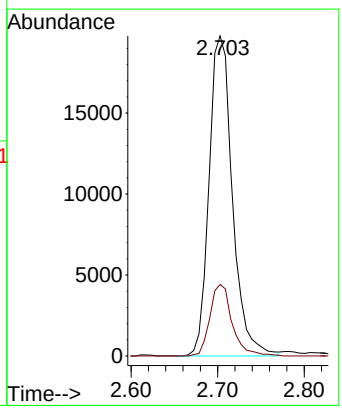
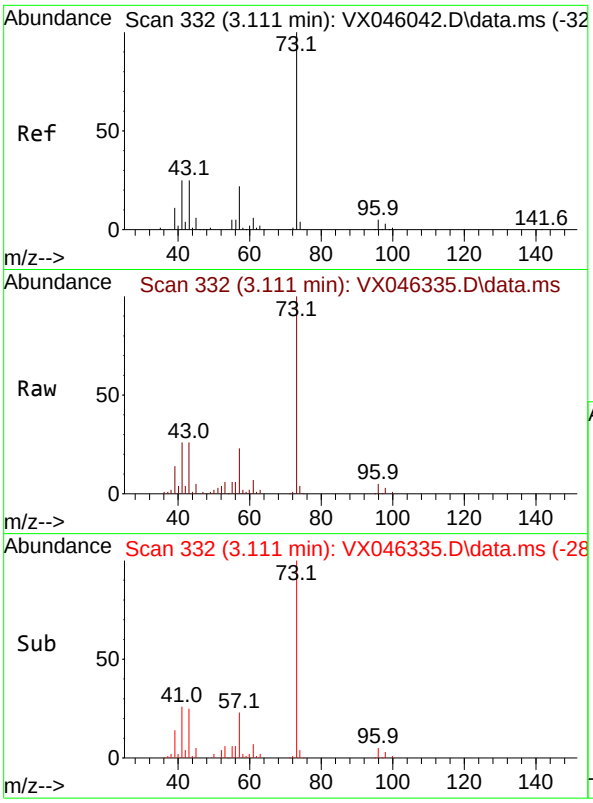



#18
Methyl Acetate
Concen: 25.610 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 43 Resp: 37022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 21.3 | 16.7 | 25.1 |






#19
Methyl tert-butyl Ether
Concen: 20.857 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

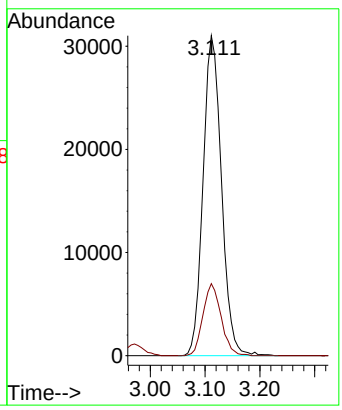
Tgt Ion: 73 Resp: 7226

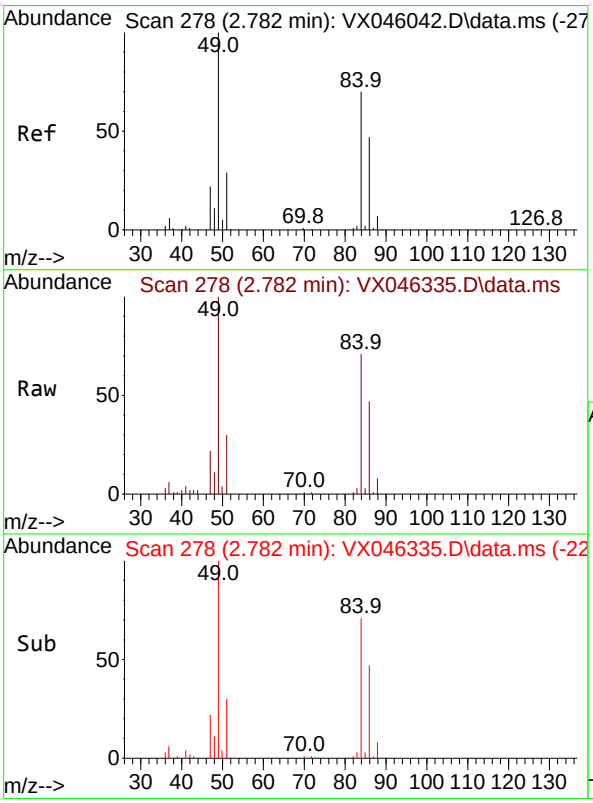
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.5 | 17.7 | 26.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

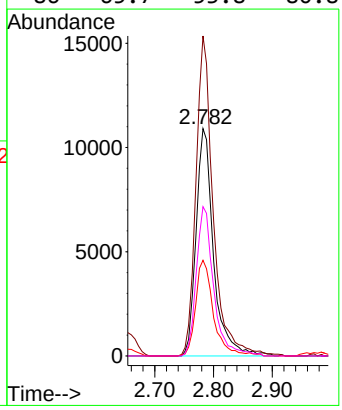


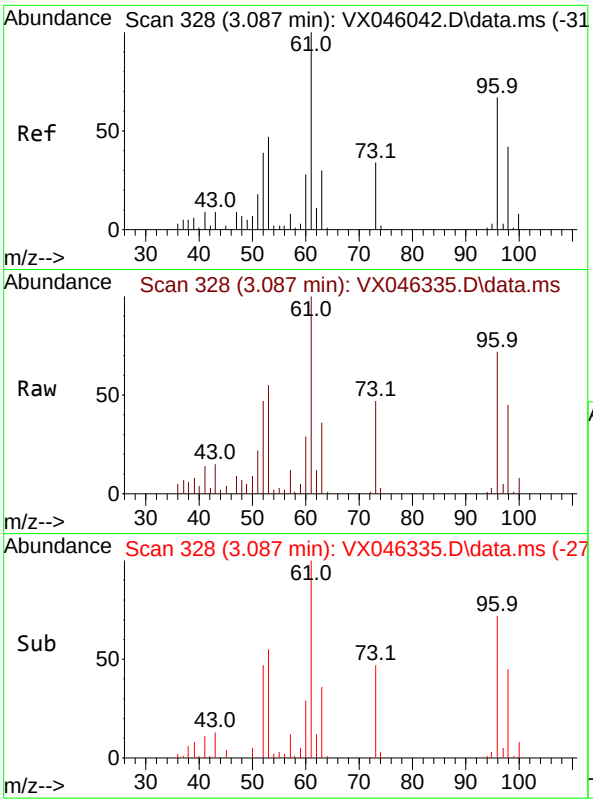




#20
Methylene Chloride
Concen: 18.892 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 84 Resp: 22554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 140.7 | 113.9 | 170.9 |
| 51 | 42.0 | 33.5 | 50.3 |
| 86 | 65.7 | 53.8 | 80.8 |

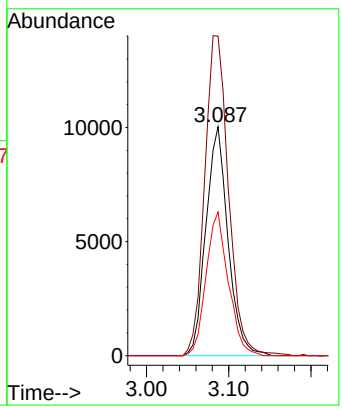





#21
trans-1,2-Dichloroethene
Concen: 18.908 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 96 Resp: 1879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.6 | 119.5 | 179.3 |
| 98 | 62.8 | 50.0 | 75.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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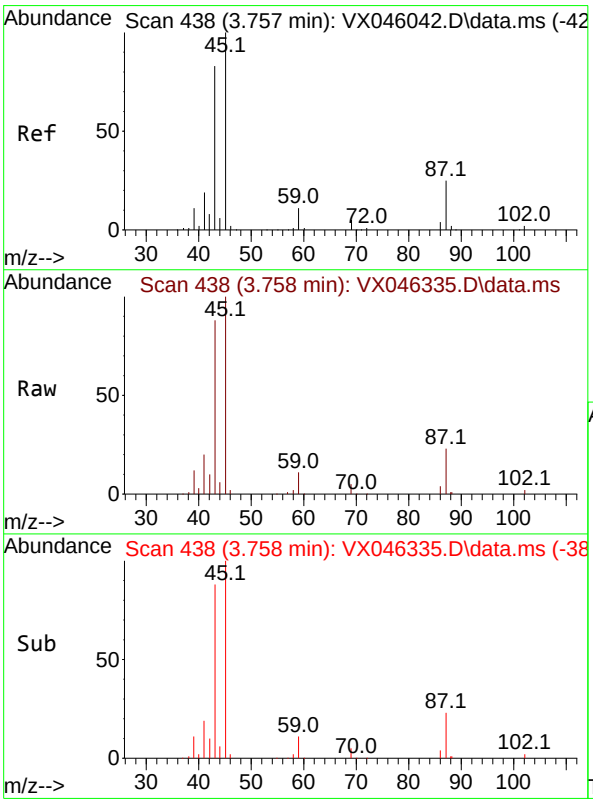
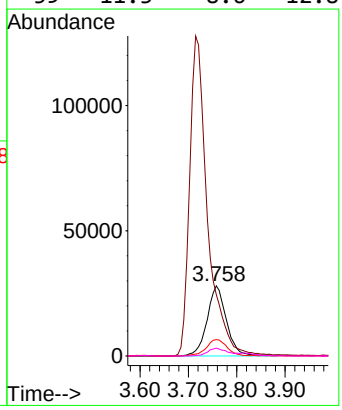
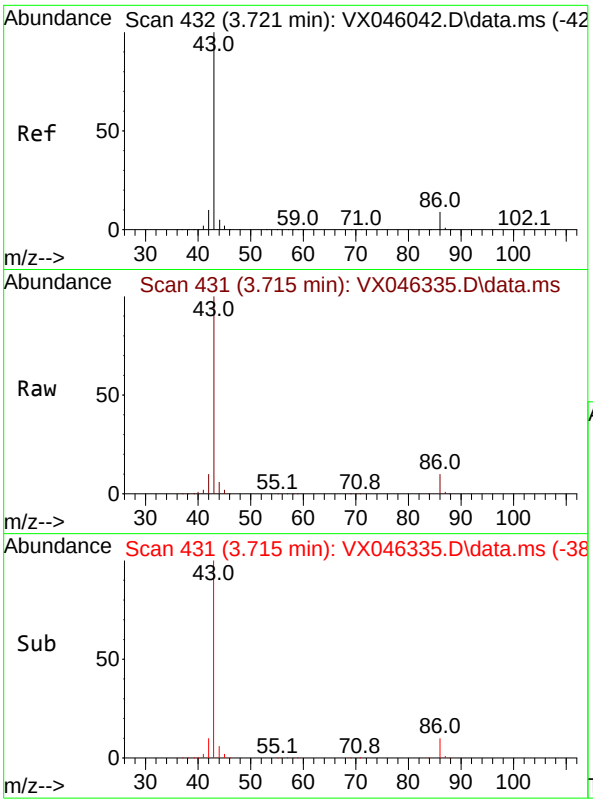



#22
Diisopropyl ether
Concen: 21.349 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 45 Resp: 77884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 85.8 | 66.6 | 100.0 |
| 87 | 23.4 | 19.8 | 29.6 |
| 59 | 11.3 | 8.6 | 12.8 |






#23
Vinyl Acetate
Concen: 102.717 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 43 Resp: 32958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.5 | 7.5 | 11.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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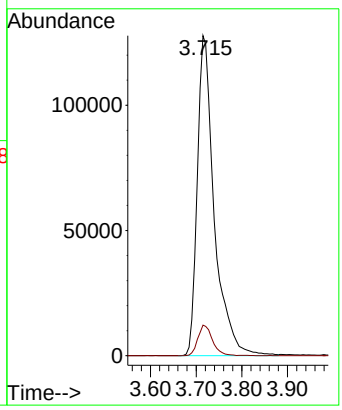
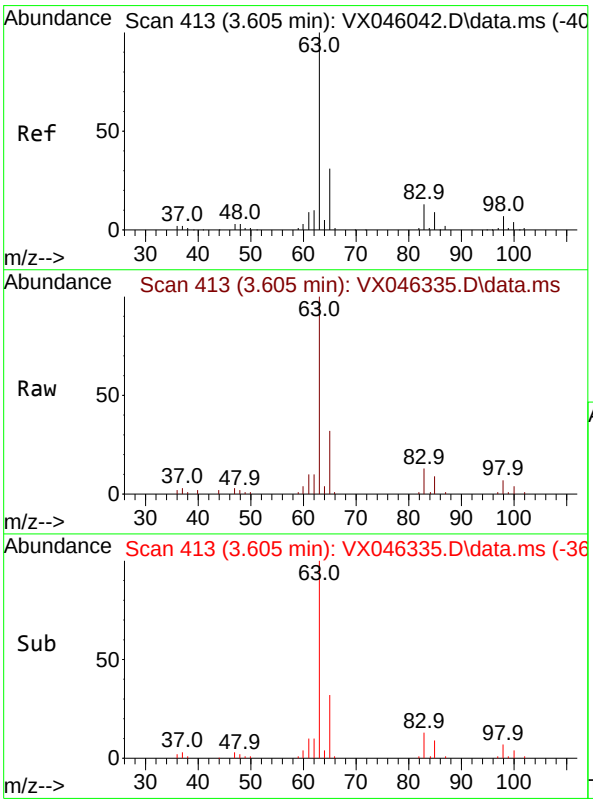
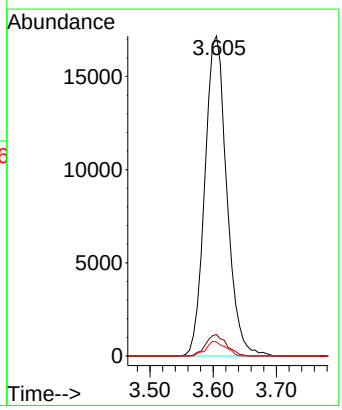


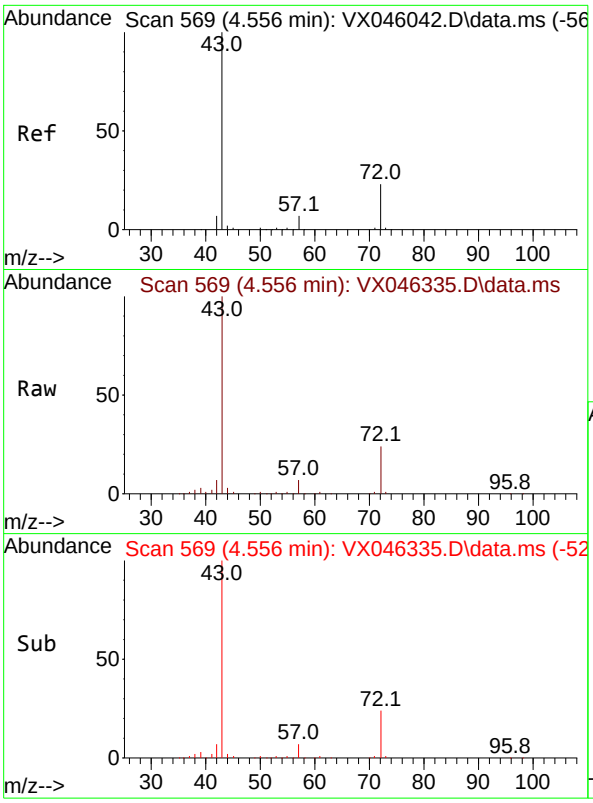




#24
1,1-Dichloroethane
Concen: 20.374 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 63 Resp: 41400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.7 | 3.6 | 10.8 |
| 100 | 4.4 | 2.1 | 6.3 |

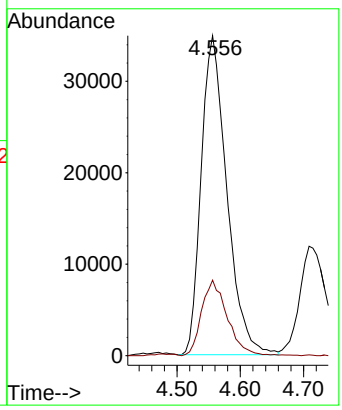





#25
2-Butanone
Concen: 108.788 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 43 Resp: 9839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.5 | 18.4 | 27.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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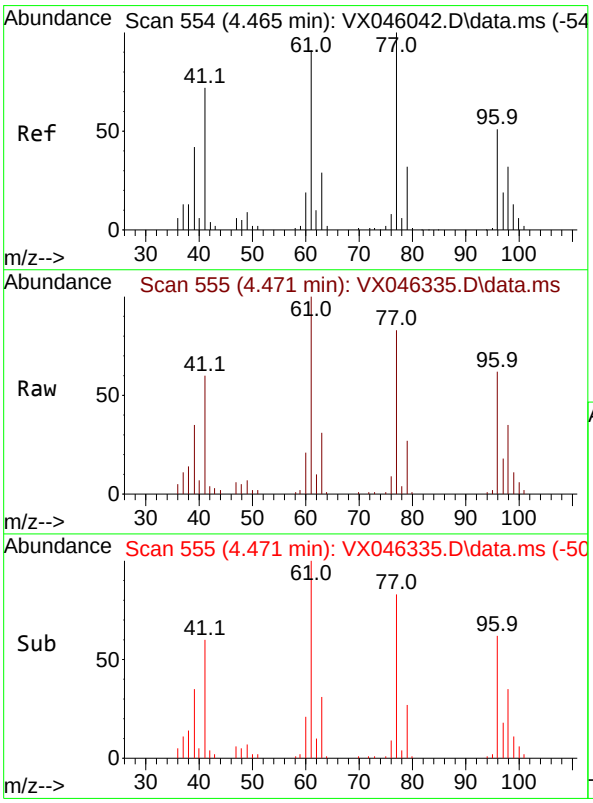
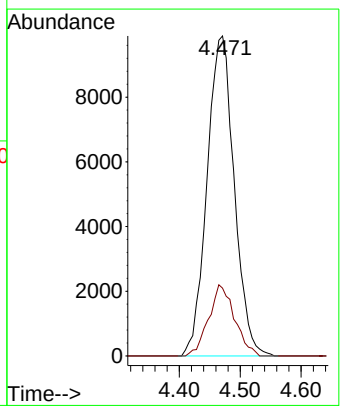
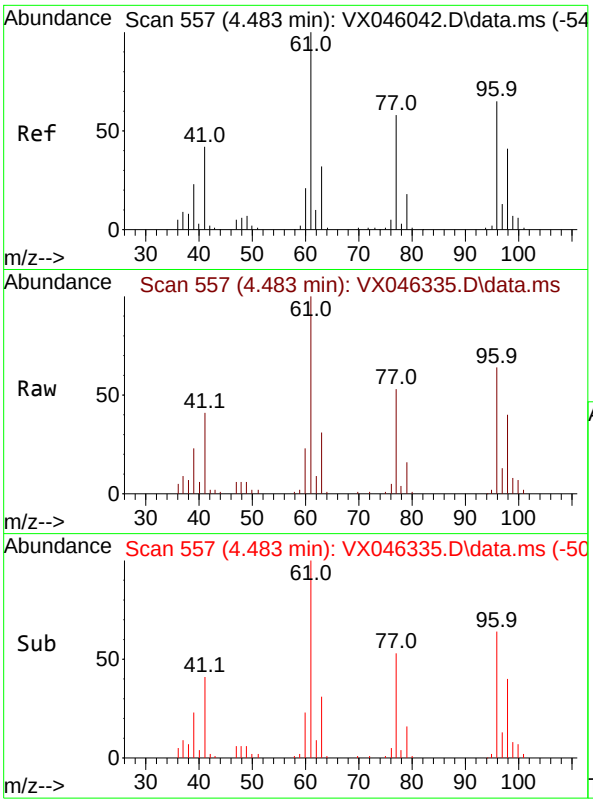



#26
2,2-Dichloropropane
Concen: 19.275 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 77 Resp: 30656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.2 | 10.5 | 31.5 |

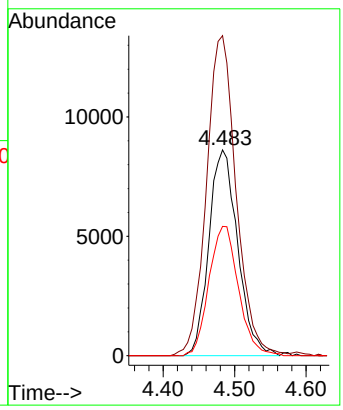





#27
cis-1,2-Dichloroethene
Concen: 20.160 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 96 Resp: 2411

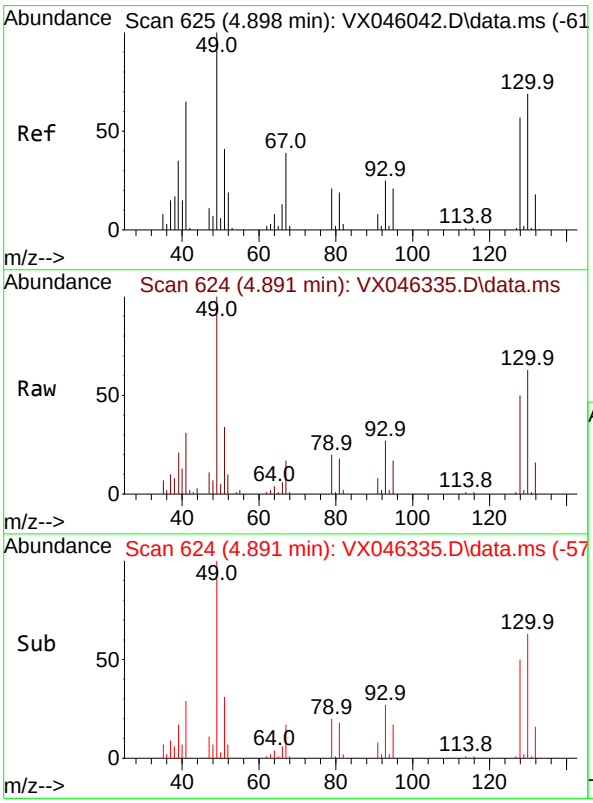
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 160.6 | 0.0 | 322.8 |
| 98 | 64.4 | 0.0 | 129.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

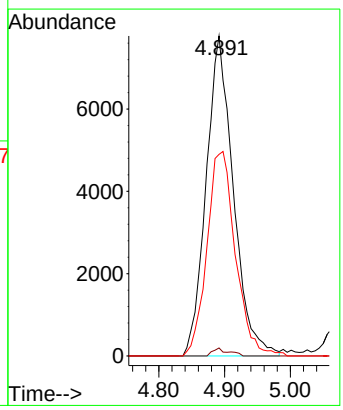
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

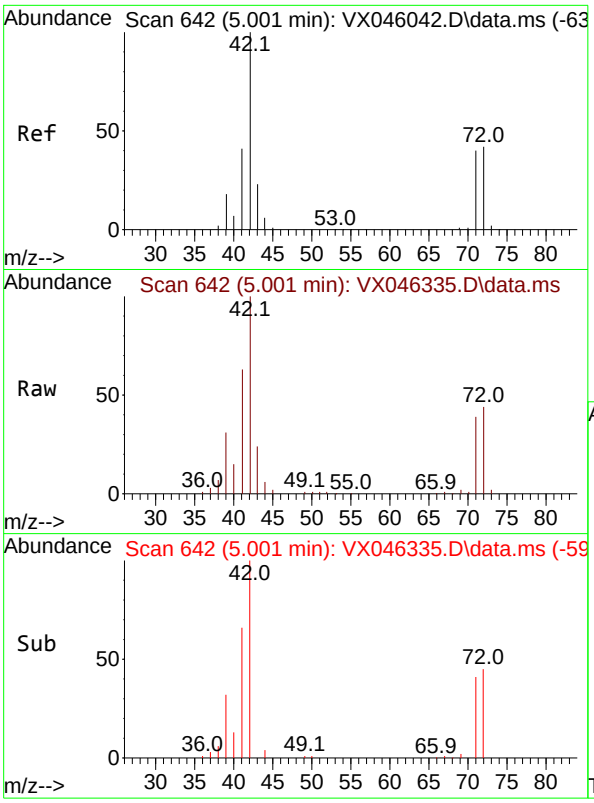



#28
Bromochloromethane
Concen: 22.890 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 49 Resp: 22388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.4 | 0.0 | 4.0 |
| 130 | 66.9 | 56.2 | 84.2 |

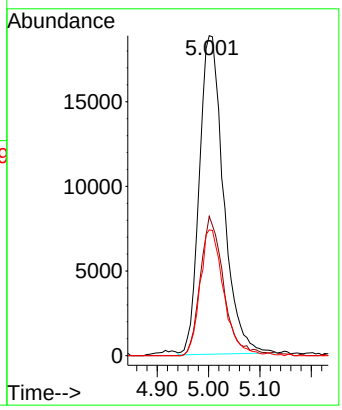





#29
Tetrahydrofuran
Concen: 108.434 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 42 Resp: 6145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.2 | 33.7 | 50.5 |
| 71 | 38.7 | 31.4 | 47.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 05/26/2025
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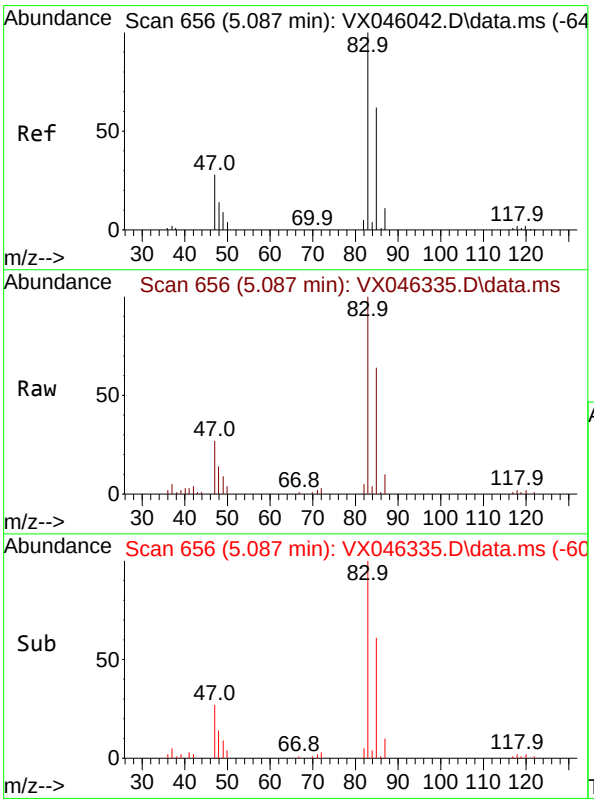
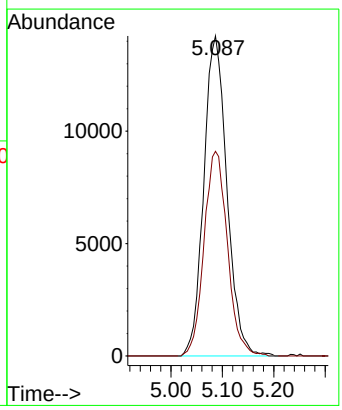
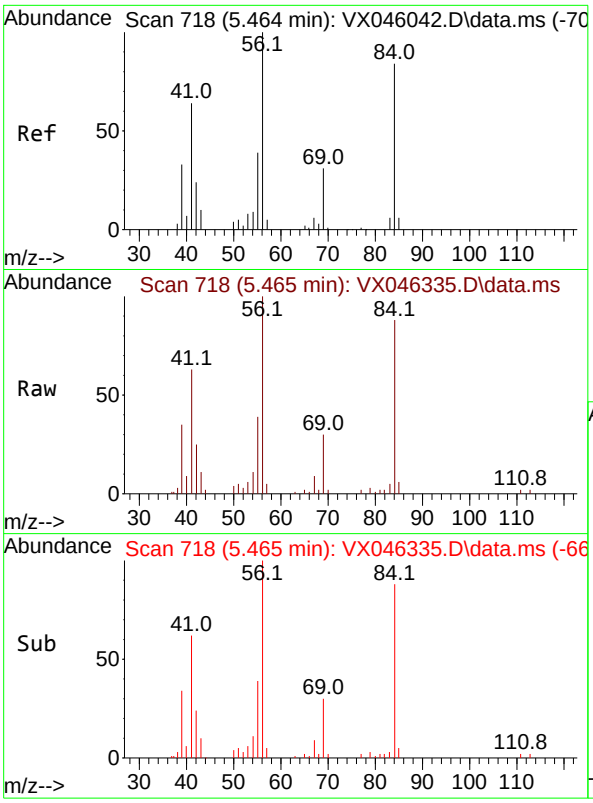



#30
Chloroform
Concen: 21.036 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 83 Resp: 44553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.0 | 49.3 | 73.9 |






#31
Cyclohexane
Concen: 18.629 ug/l
RT: 5.465 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 56 Resp: 3449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 29.9 | 24.4 | 36.6 |
| 84 | 85.5 | 66.9 | 100.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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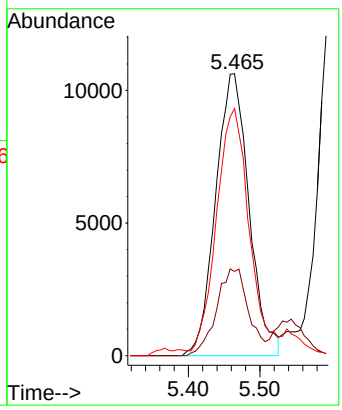
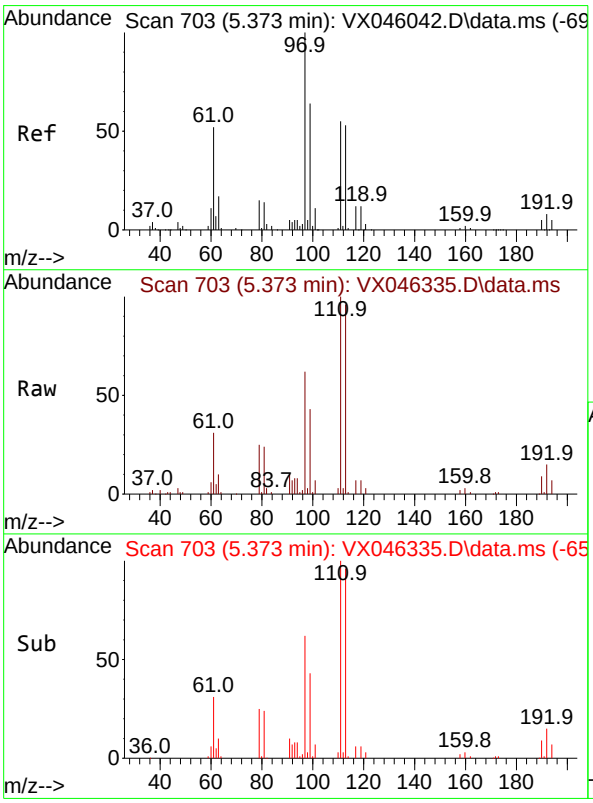
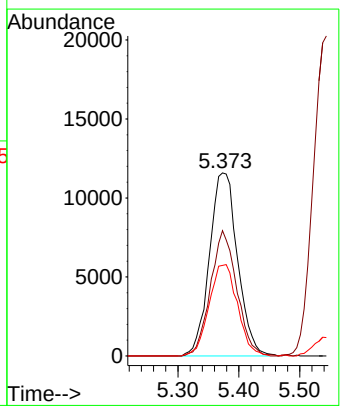


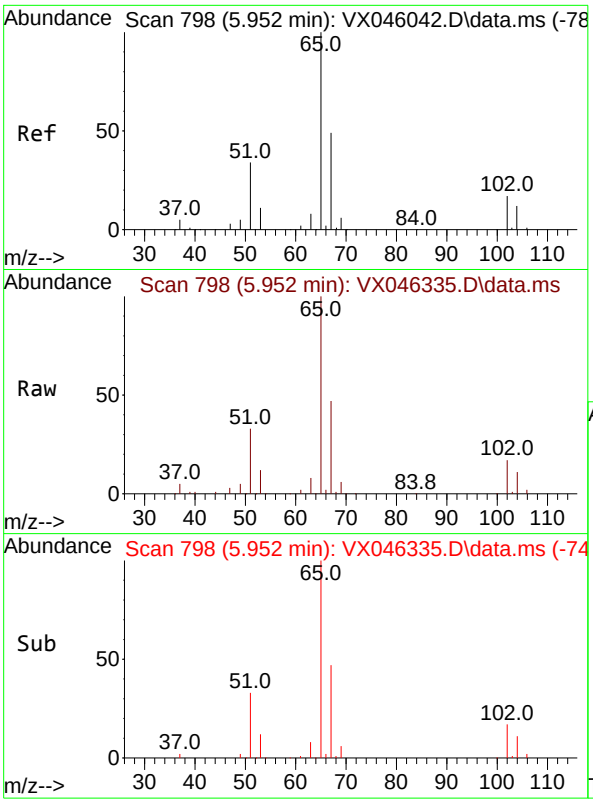




#32
1,1,1-Trichloroethane
Concen: 20.251 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 97 Resp: 37180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.0 | 51.8 | 77.6 |
| 61 | 50.4 | 40.1 | 60.1 |

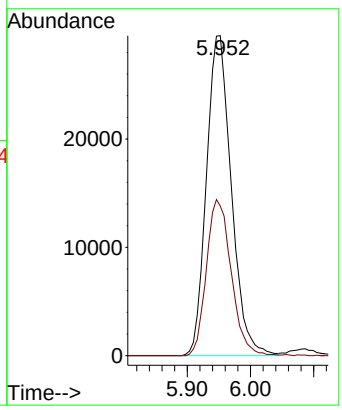





#33
1,2-Dichloroethane-d4
Concen: 52.000 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 65 Resp: 8079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.5 | 0.0 | 99.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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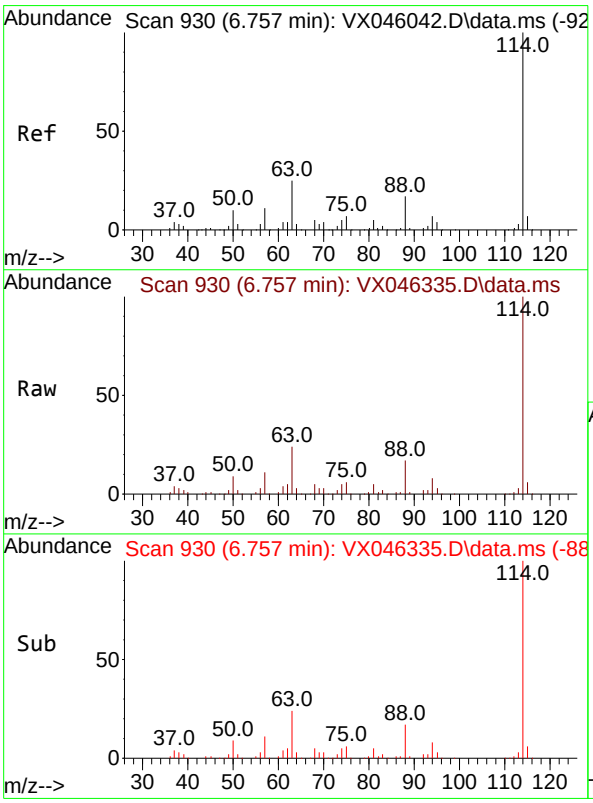
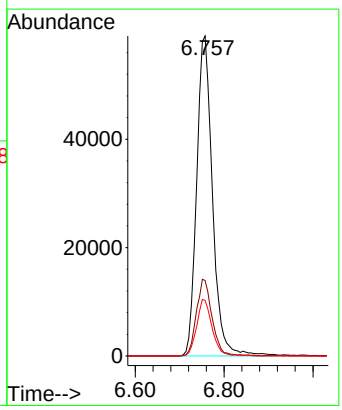
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

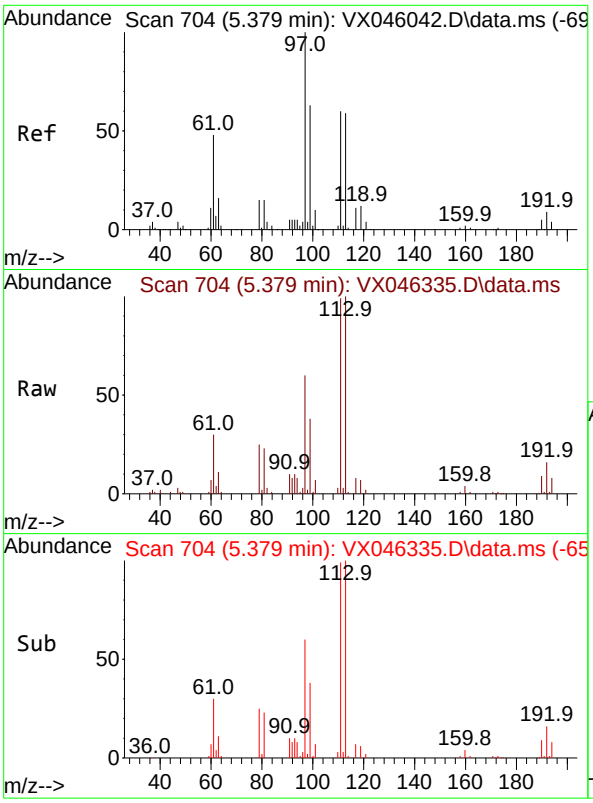



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:114 Resp: 146324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.6 | 0.0 | 49.2 |
| 88 | 17.3 | 0.0 | 33.6 |

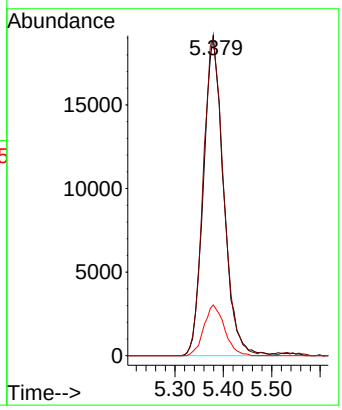





#35
Dibromofluoromethane
Concen: 52.404 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:113 Resp: 5521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.8 | 83.1 | 124.7 |
| 192 | 16.3 | 13.3 | 19.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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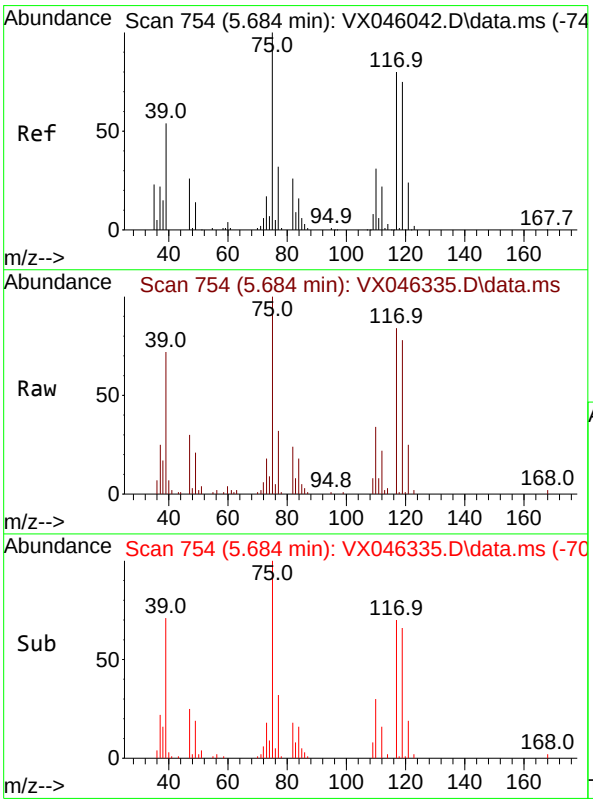
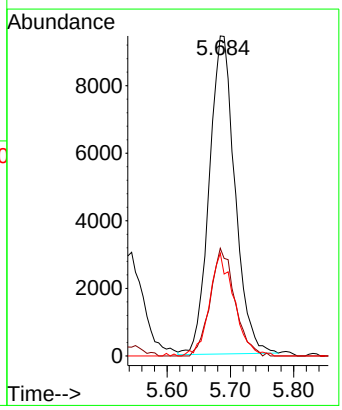
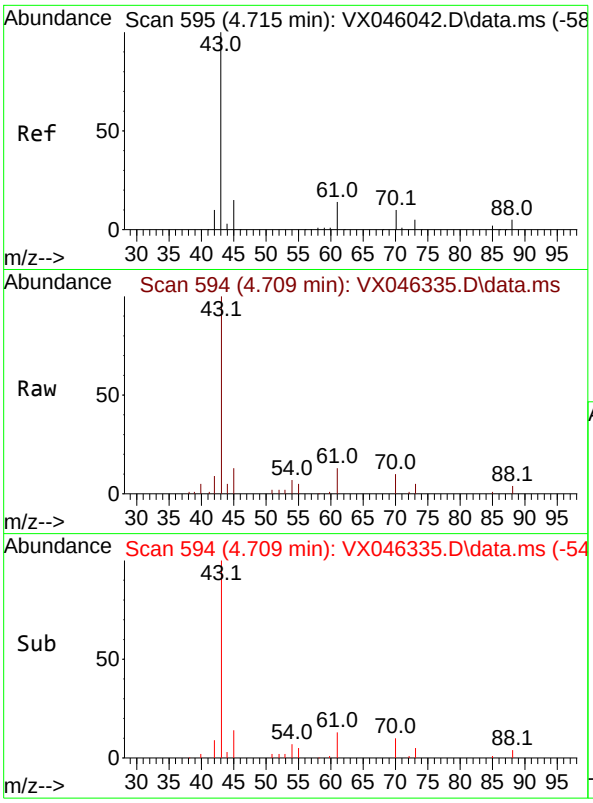



#36
1,1-Dichloropropene
Concen: 18.693 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 75 Resp: 26465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 32.5 | 16.3 | 48.9 |
| 77 | 31.2 | 24.3 | 36.5 |

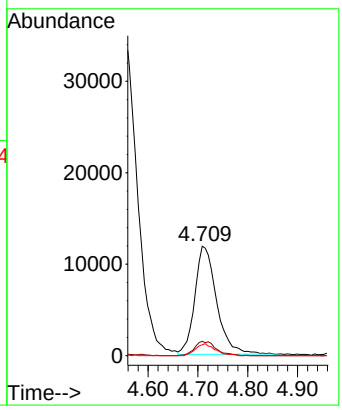





#37
Ethyl Acetate
Concen: 20.482 ug/l
RT: 4.709 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 43 Resp: 3582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.1 | 10.3 | 15.5 |
| 70 | 9.9 | 7.9 | 11.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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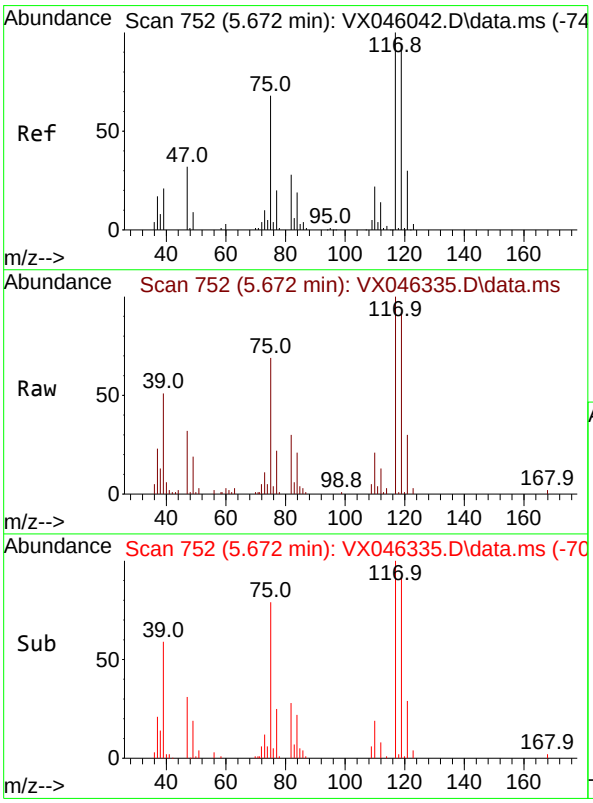
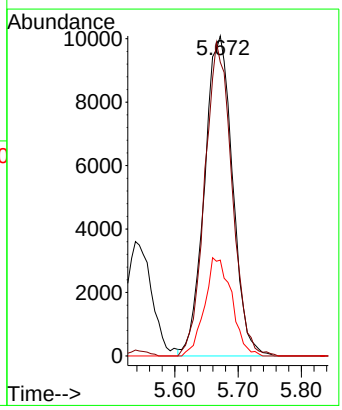
Supervised By :Mahesh Dadoda 05/26/2025

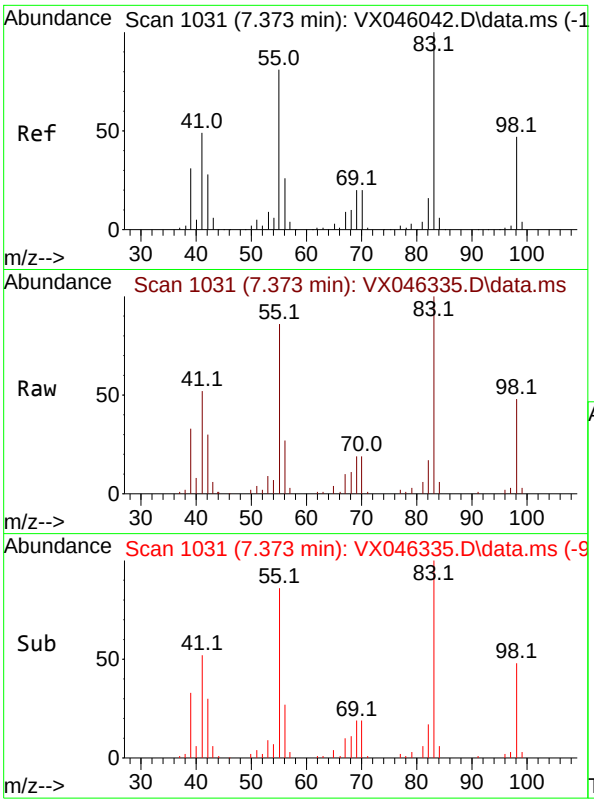



#38
Carbon Tetrachloride
Concen: 19.529 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:117 Resp: 31065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.8 | 75.2 | 112.8 |
| 121 | 30.0 | 24.2 | 36.4 |

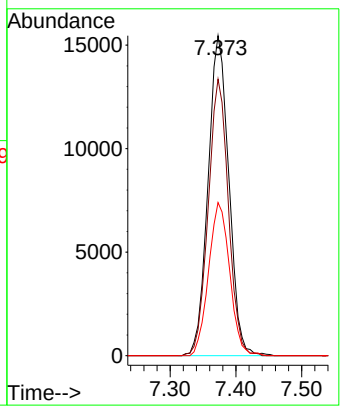





#39
Methylcyclohexane
Concen: 18.653 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 83 Resp: 3399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 86.4 | 64.7 | 97.1 |
| 98 | 47.8 | 37.4 | 56.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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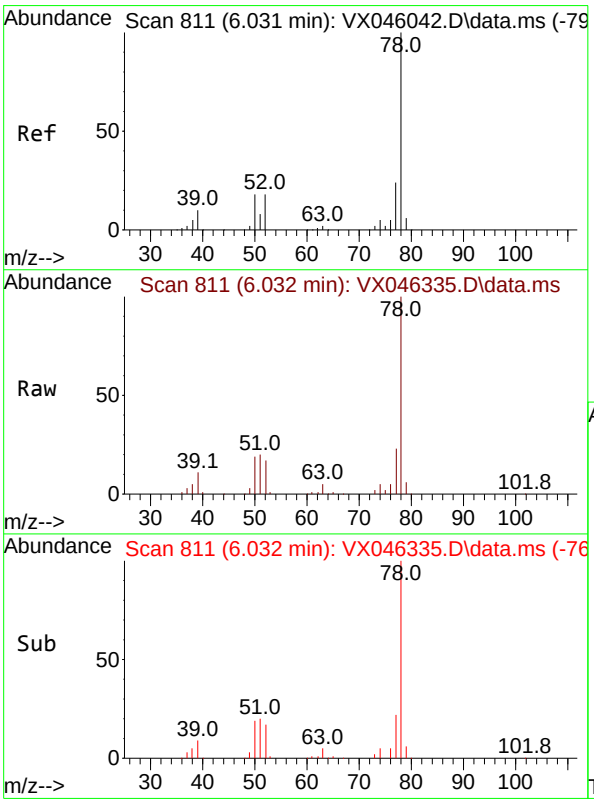
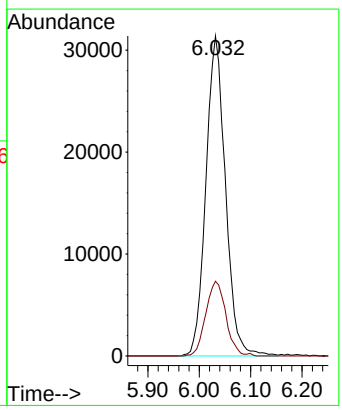
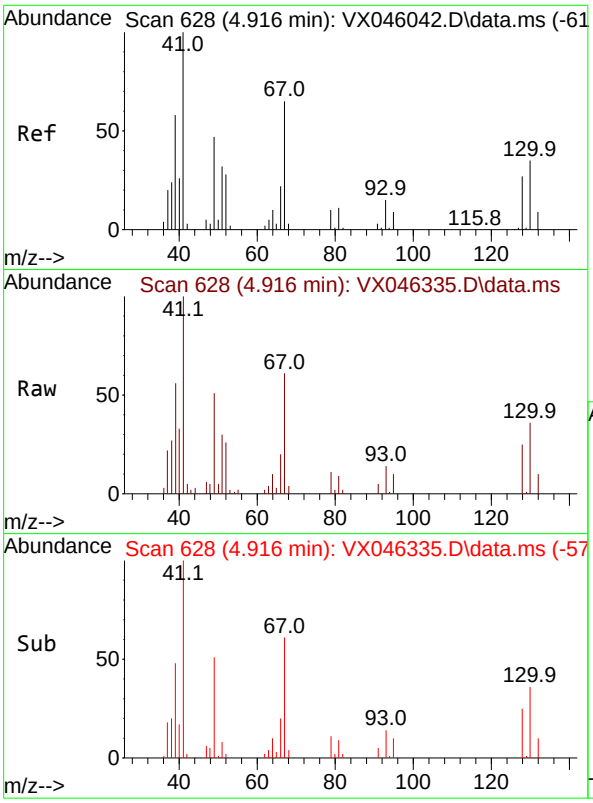



#40
Benzene
Concen: 20.005 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 78 Resp: 82957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.3 | 19.0 | 28.4 |

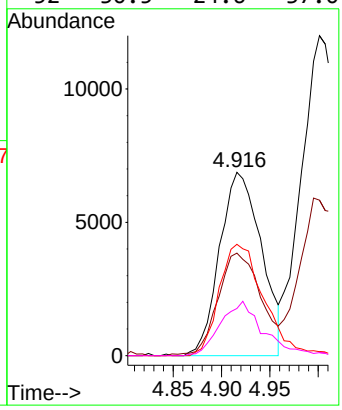





#41
Methacrylonitrile
Concen: 22.583 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 41 Resp: 2066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.7 | 47.2 | 70.8 |
| 67 | 64.8 | 50.7 | 76.1 |
| 52 | 30.5 | 24.6 | 37.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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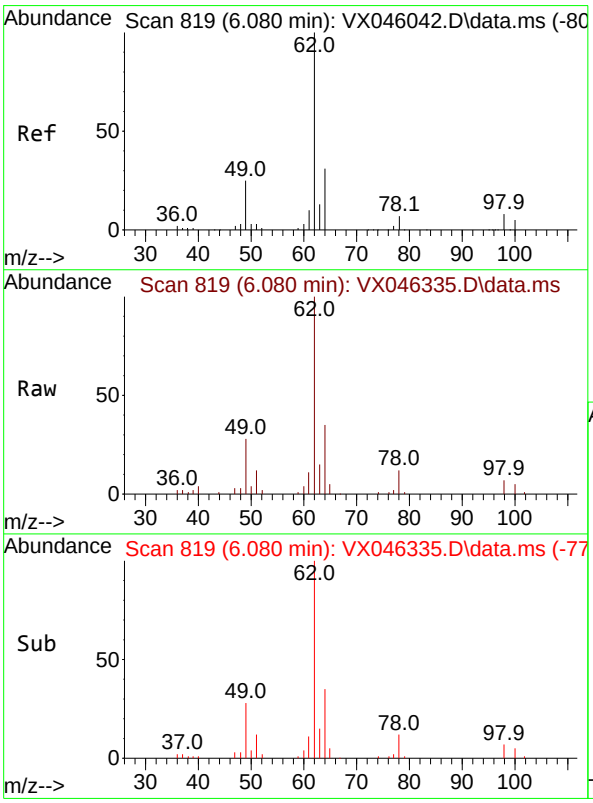
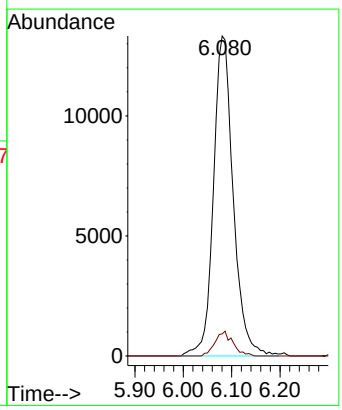
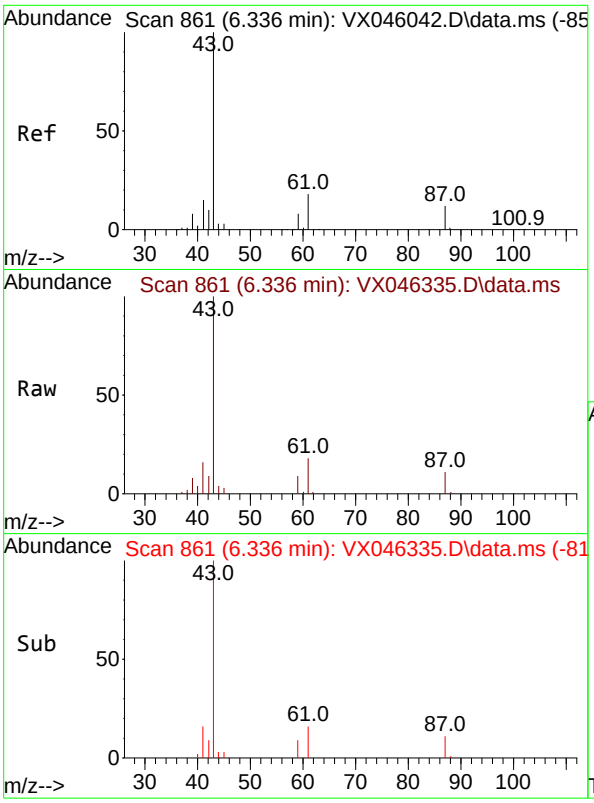



#42
1,2-Dichloroethane
Concen: 21.156 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 62 Resp: 37863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.0 | 0.0 | 15.2 |






#43
Isopropyl Acetate
Concen: 21.467 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

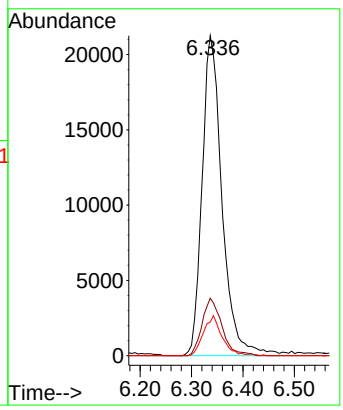
Tgt Ion: 43 Resp: 5728

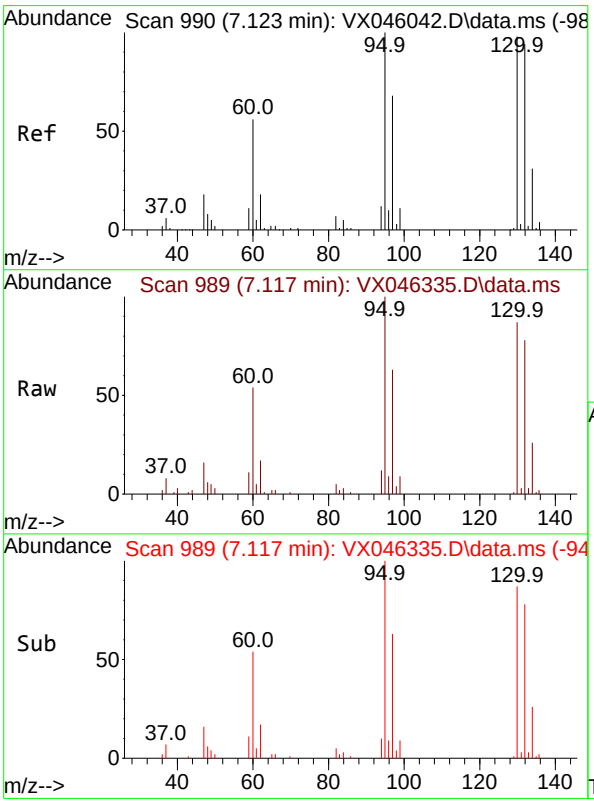
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 17.7 | 14.3 | 21.5 |
| 87 | 11.7 | 9.5 | 14.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

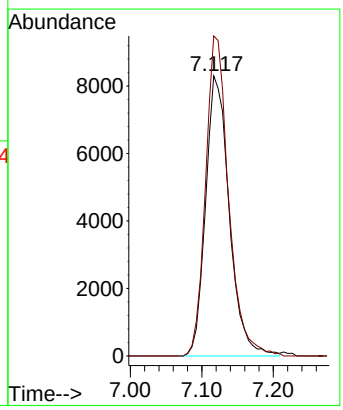


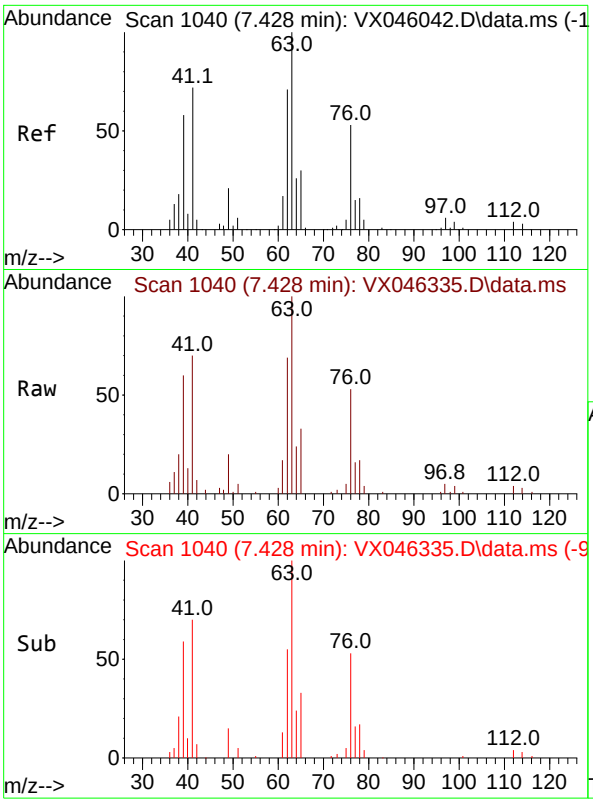




#44
Trichloroethene
Concen: 19.115 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:130 Resp: 19078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 114.3 | 0.0 | 204.2 |

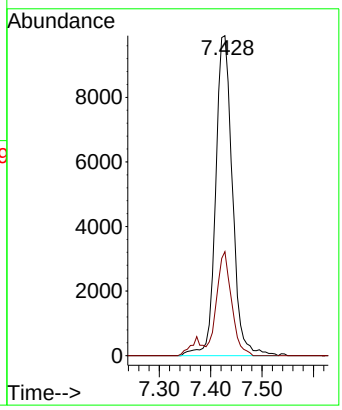





#45
1,2-Dichloropropane
Concen: 21.740 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 63 Resp: 2241

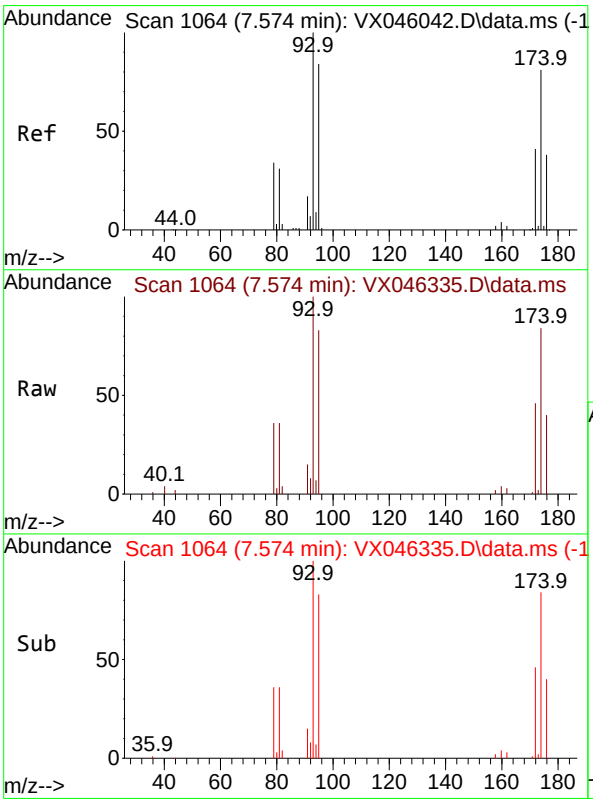
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.5 | 24.1 | 36.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

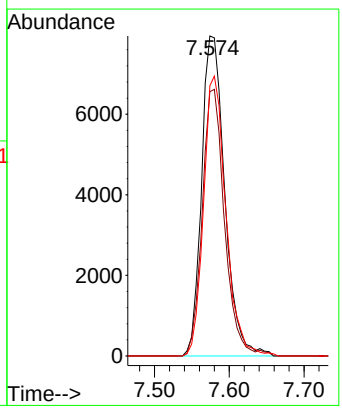
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

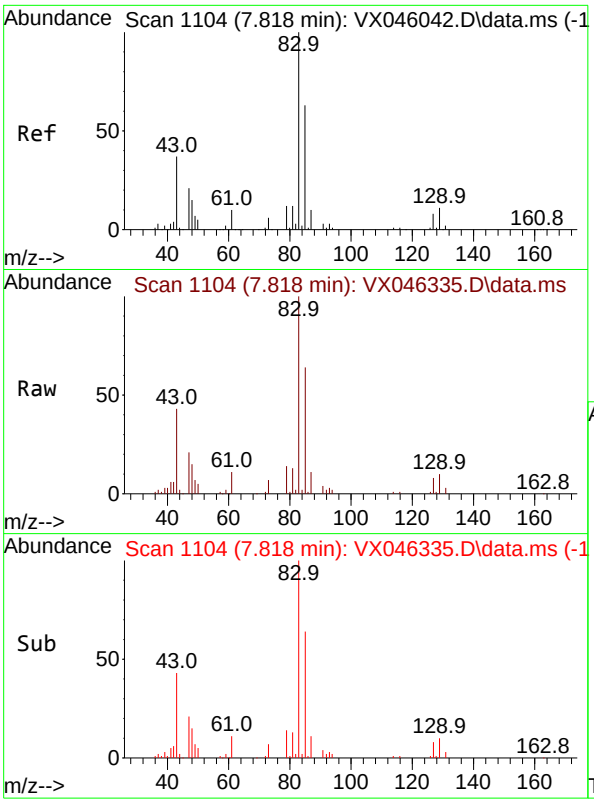



#46
Dibromomethane
Concen: 20.991 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 93 Resp: 17071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.4 | 65.6 | 98.4 |
| 174 | 84.5 | 68.2 | 102.2 |

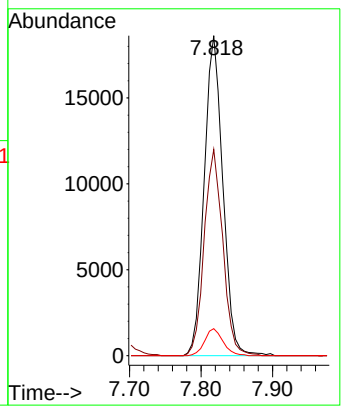





#47
Bromodichloromethane
Concen: 21.058 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 83 Resp: 3373

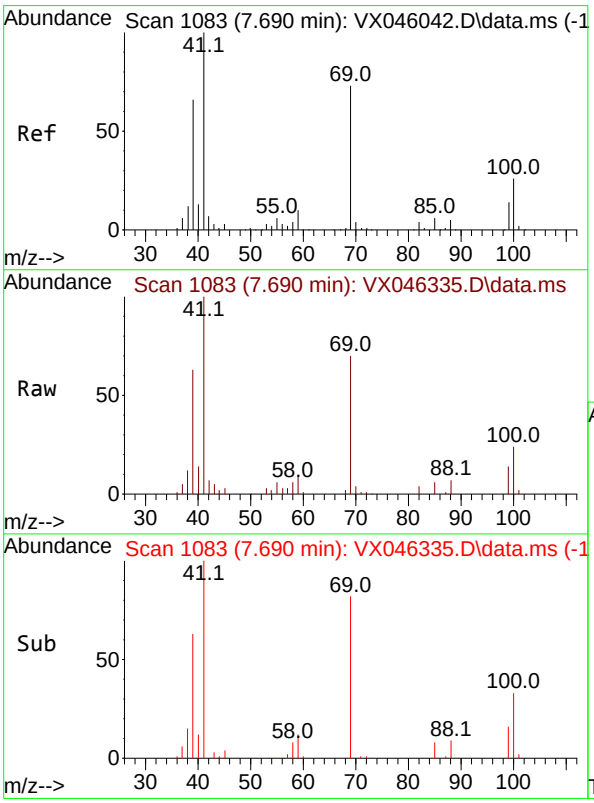
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 50.5 | 75.7 |
| 127 | 8.5 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

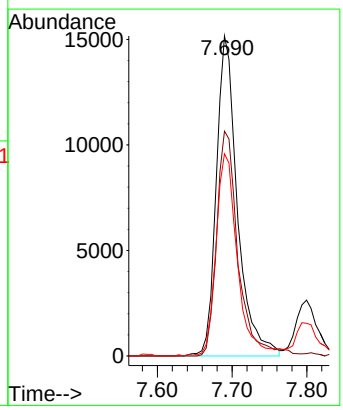
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

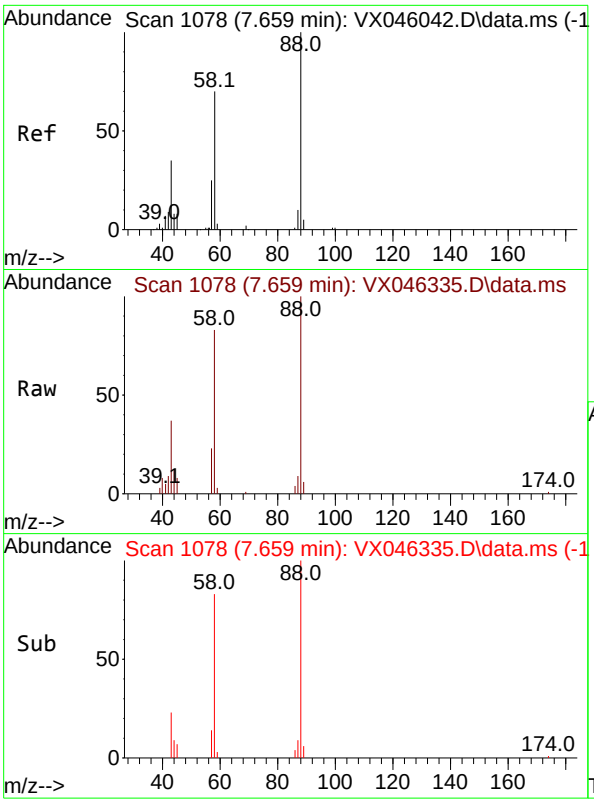



#48
Methyl methacrylate
Concen: 21.887 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 41 Resp: 29827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 71.4 | 58.5 | 87.7 |
| 39 | 64.2 | 51.7 | 77.5 |

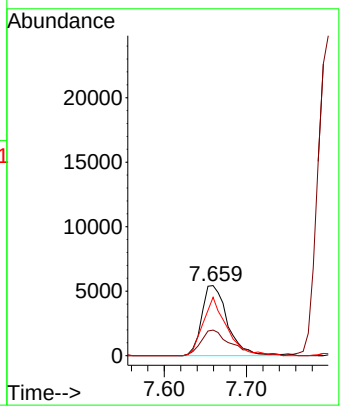





#49
1,4-Dioxane
Concen: 455.874 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 88 Resp: 1179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 43.7 | 33.4 | 50.2 |
| 58 | 77.7 | 58.6 | 88.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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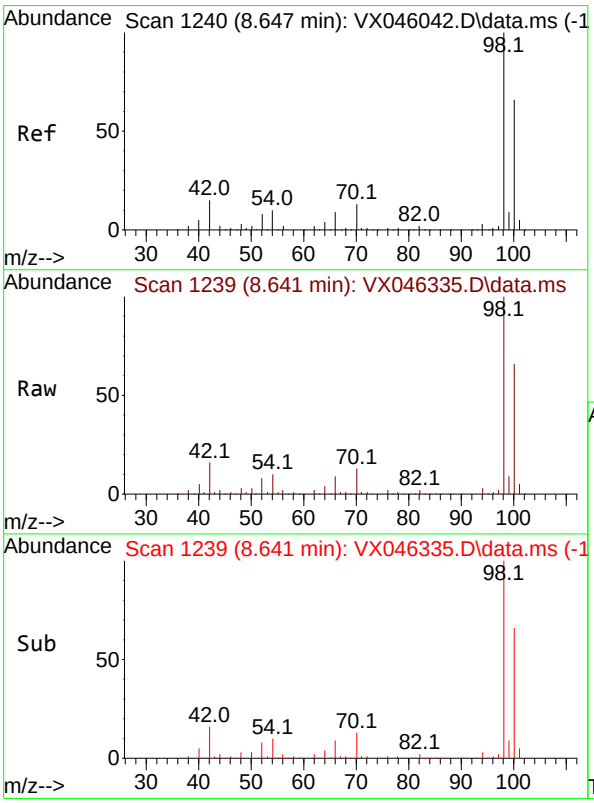
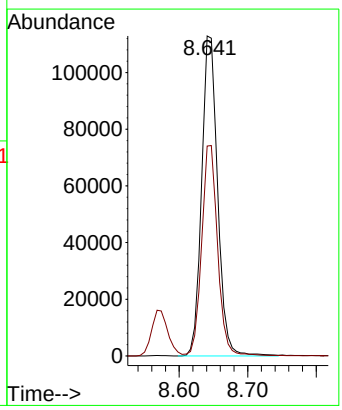
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

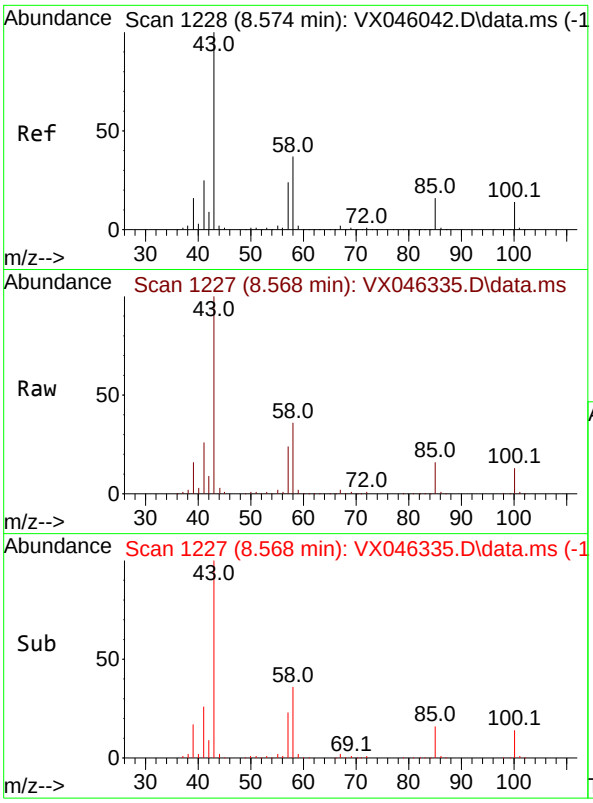



#50
Toluene-d8
Concen: 50.285 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 98 Resp: 183386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.7 | 53.5 | 80.3 |

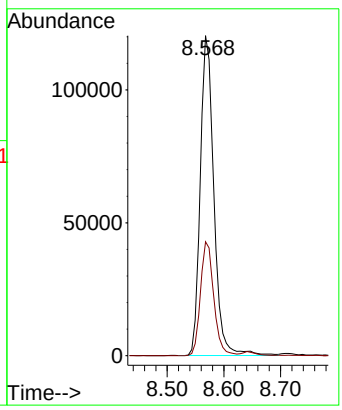





#51
4-Methyl-2-Pentanone
Concen: 113.201 ug/l
RT: 8.568 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 43 Resp: 20050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.8 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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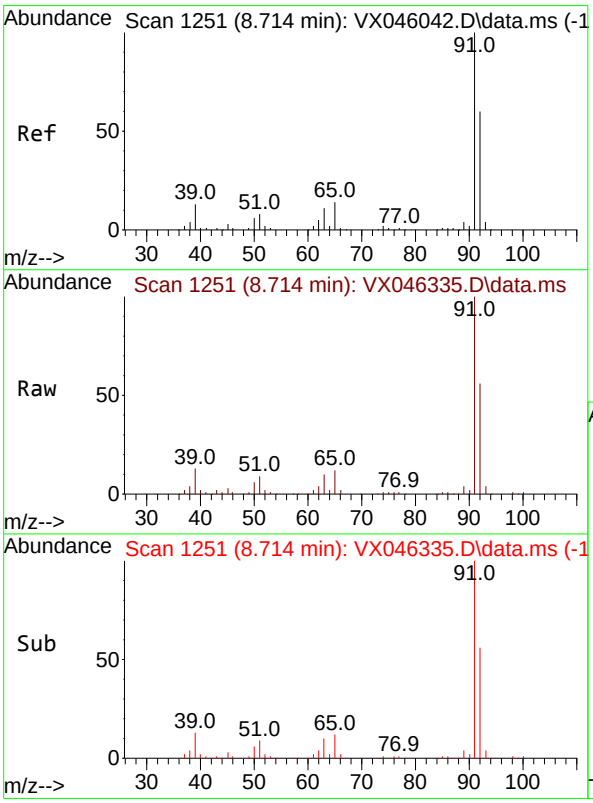
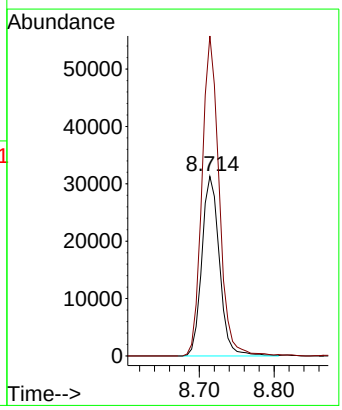
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

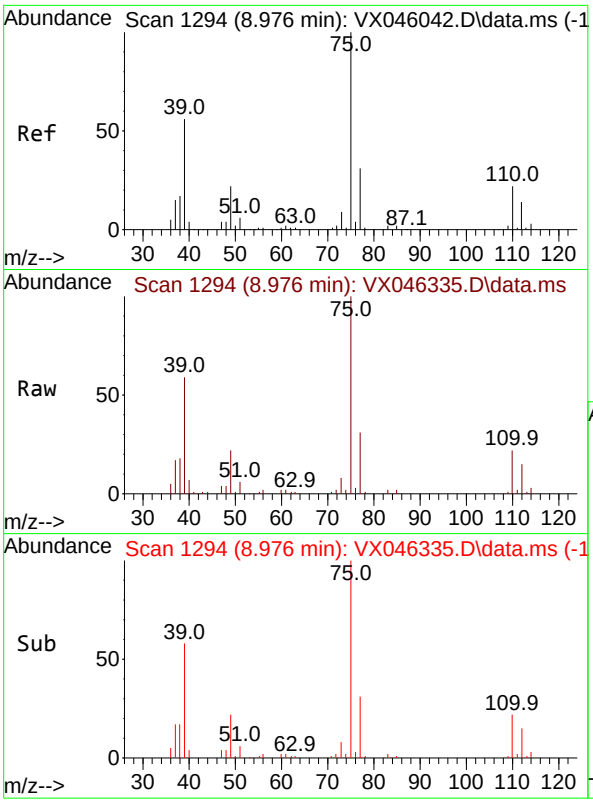



#52
Toluene
Concen: 20.154 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 92 Resp: 51247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.8 | 136.6 | 205.0 |

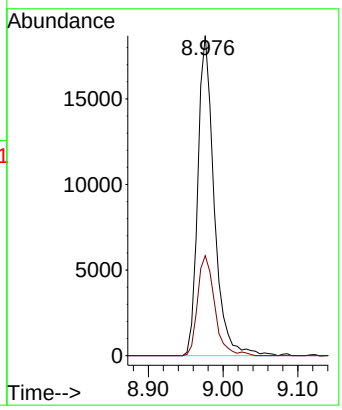





#53
t-1,3-Dichloropropene
Concen: 19.867 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 75 Resp: 2828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.2 | 25.0 | 37.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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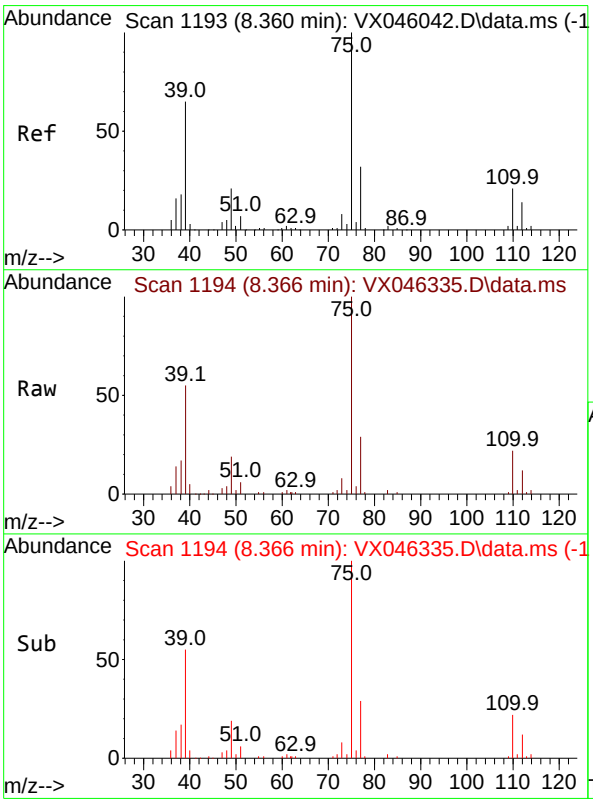
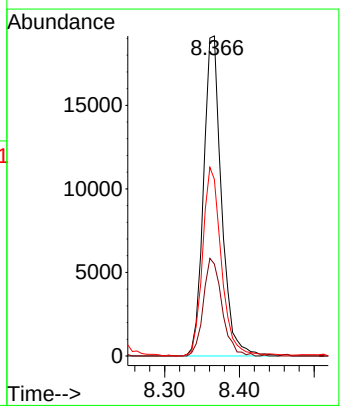
Supervised By :Mahesh Dadoda 05/26/2025

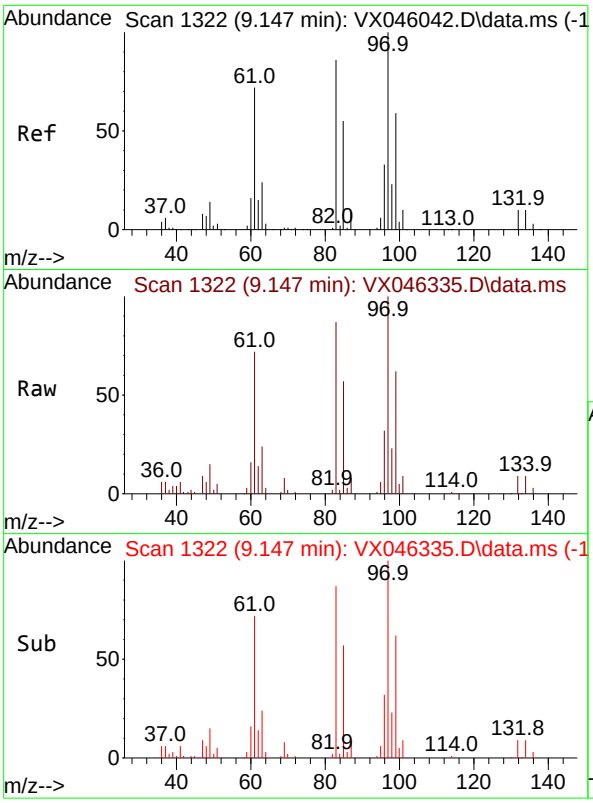



#54
cis-1,3-Dichloropropene
Concen: 20.317 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 75 Resp: 31971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 28.8 | 25.4 | 38.0 |
| 39 | 55.2 | 52.2 | 78.4 |

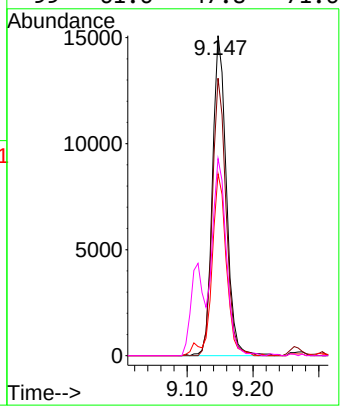





#55
1,1,2-Trichloroethane
Concen: 22.173 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 97 Resp: 2223

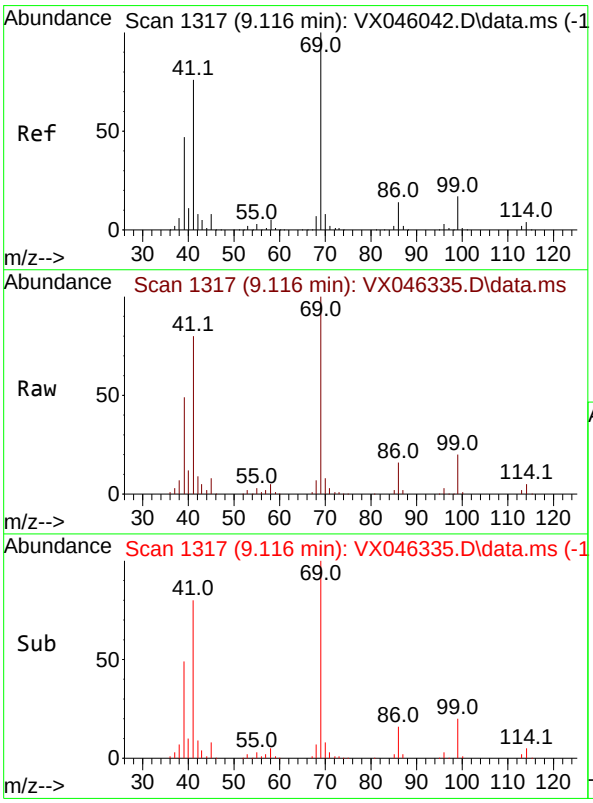
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.7 | 69.0 | 103.6 |
| 85 | 56.9 | 44.3 | 66.5 |
| 99 | 61.6 | 47.8 | 71.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

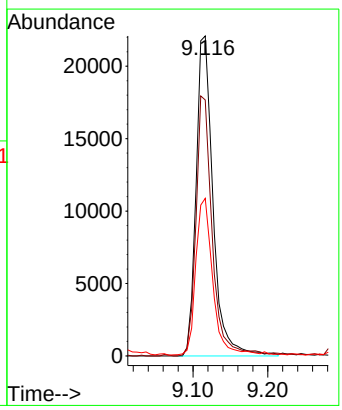
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

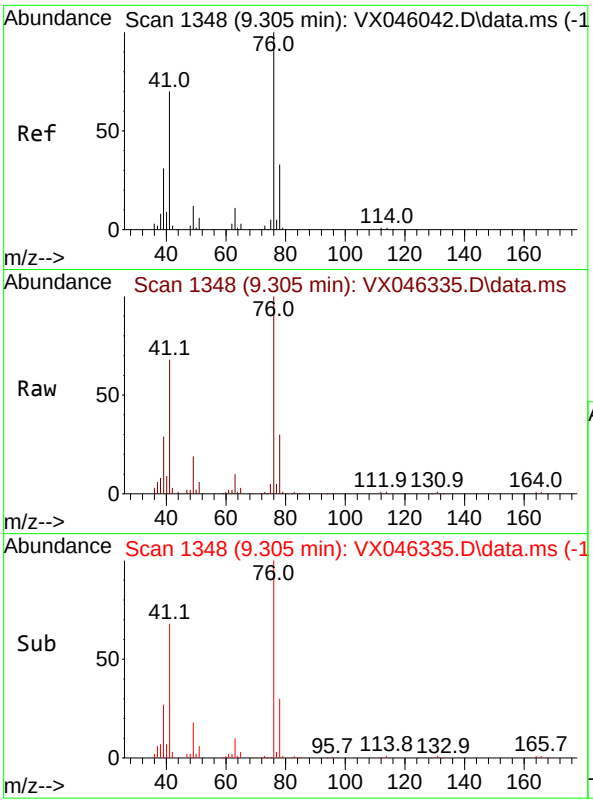



#56
Ethyl methacrylate
Concen: 21.764 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 69 Resp: 34778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 78.1 | 60.8 | 91.2 |
| 39 | 48.4 | 39.0 | 58.6 |

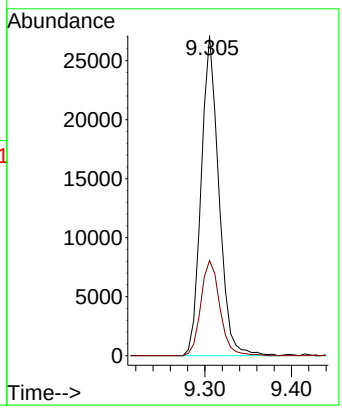





#57
1,3-Dichloropropane
Concen: 21.364 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 76 Resp: 3846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.9 | 26.3 | 39.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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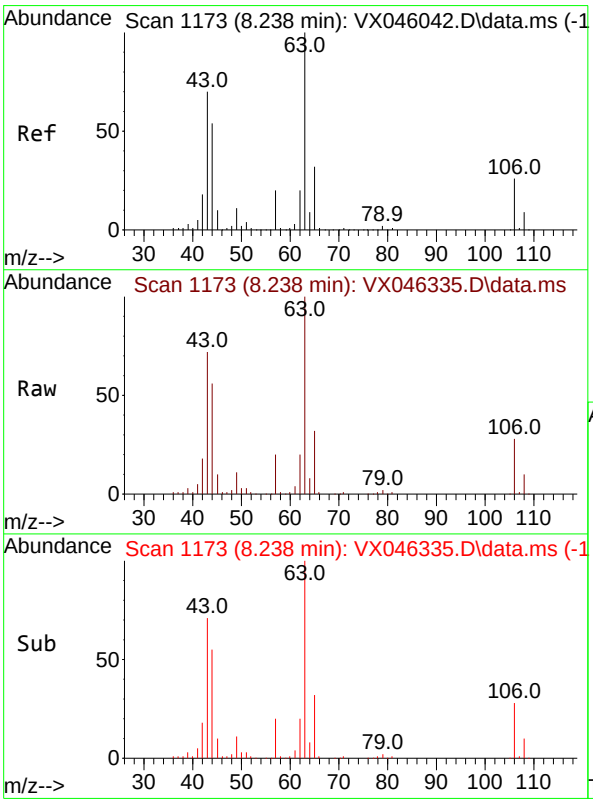
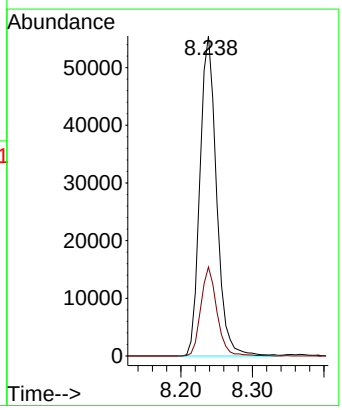
Supervised By :Mahesh Dadoda 05/26/2025

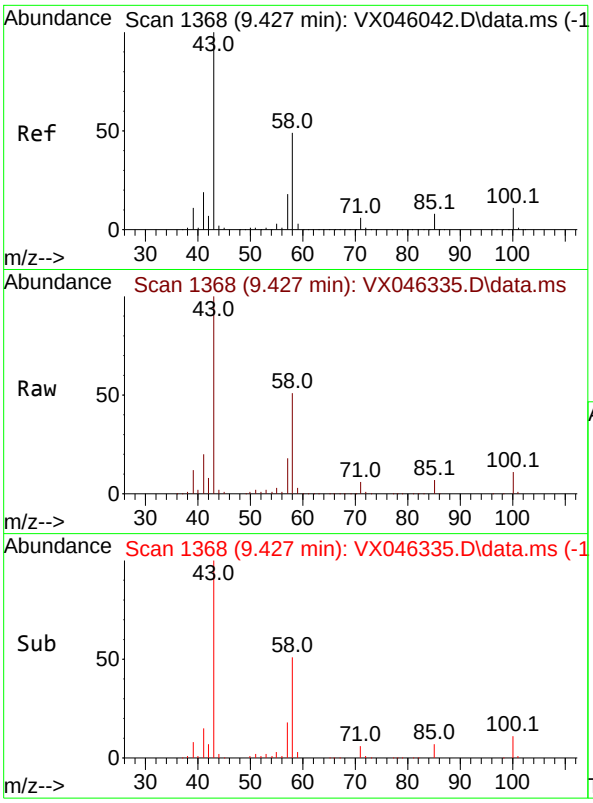



#58
2-Chloroethyl Vinyl ether
Concen: 110.078 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 63 Resp: 89677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.8 | 21.5 | 32.3 |

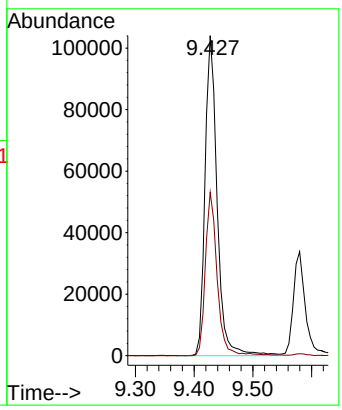





#59
2-Hexanone
Concen: 113.742 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 43 Resp: 14905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 50.0 | 24.9 | 74.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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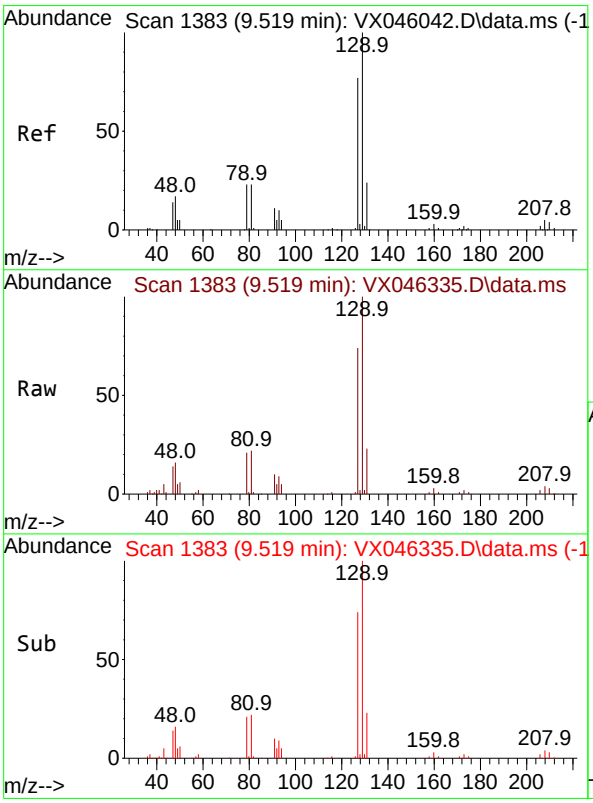
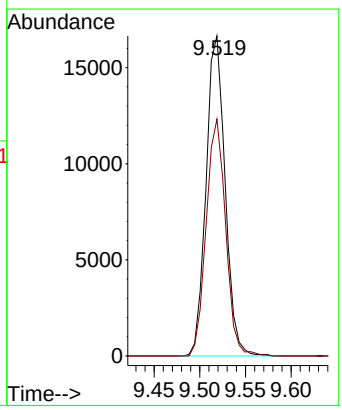
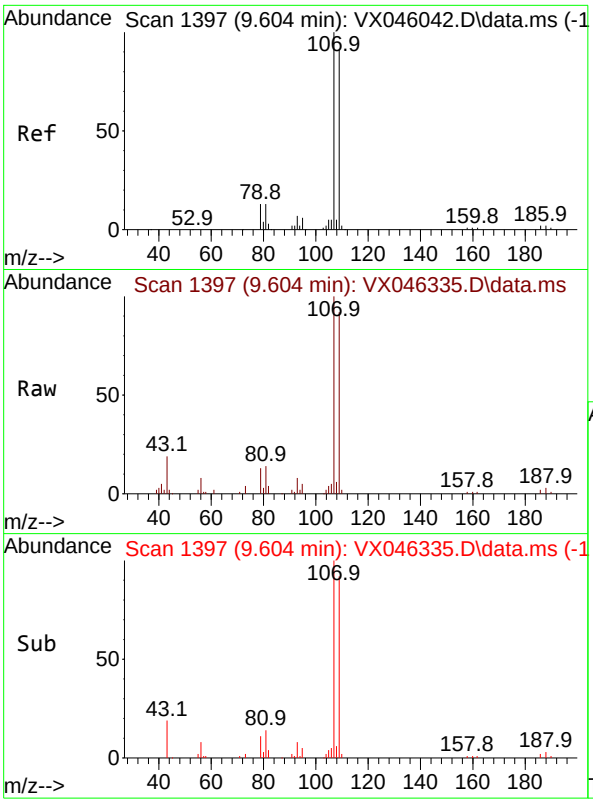



#60
Dibromochloromethane
Concen: 21.873 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:129 Resp: 24084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 75.5 | 39.3 | 117.8 |

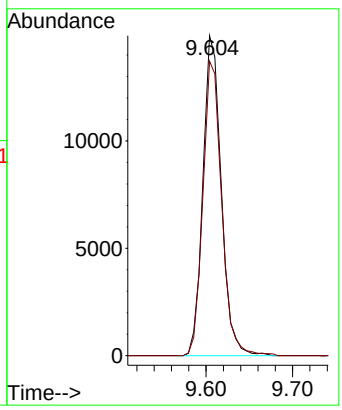





#61
1,2-Dibromoethane
Concen: 21.048 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:107 Resp: 2193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.4 | 73.3 | 109.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 05/26/2025
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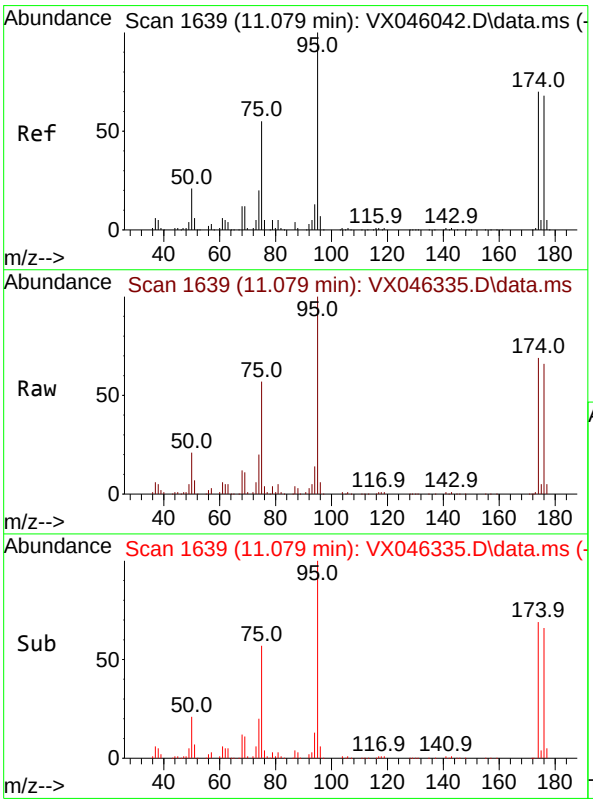
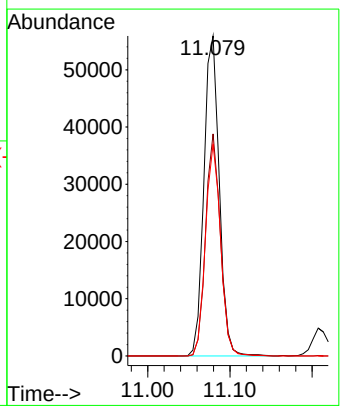
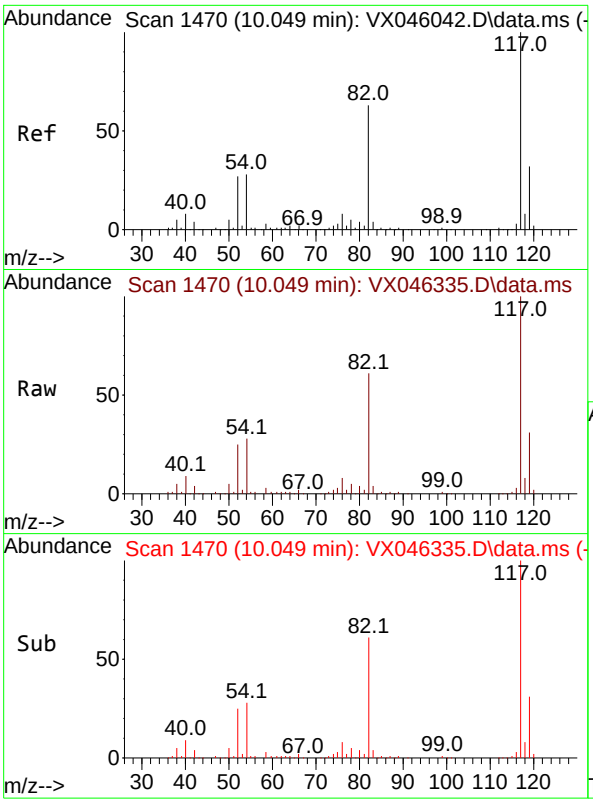



#62
4-Bromofluorobenzene
Concen: 51.824 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 95 Resp: 72498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.9 | 0.0 | 135.8 |
| 176 | 65.2 | 0.0 | 131.4 |

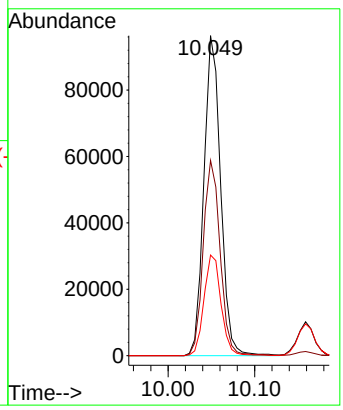





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:117 Resp: 12942

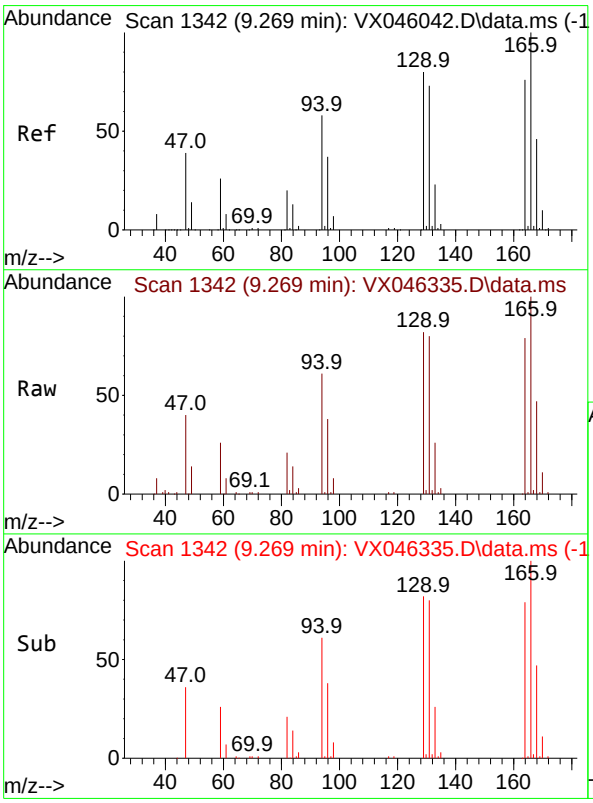
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.0 | 50.6 | 76.0 |
| 119 | 31.4 | 25.8 | 38.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

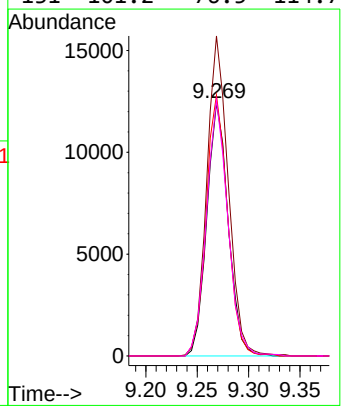
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

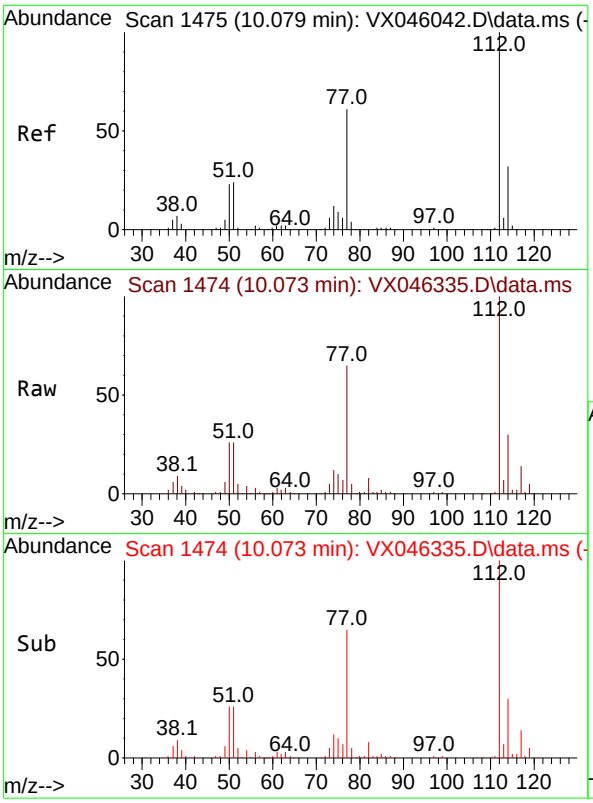



#64
Tetrachloroethene
Concen: 19.627 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:164 Resp: 17973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.5 | 105.0 | 157.6 |
| 129 | 103.1 | 83.5 | 125.3 |
| 131 | 101.2 | 76.5 | 114.7 |

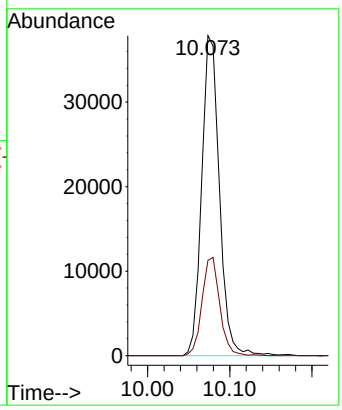





#65
Chlorobenzene
Concen: 20.010 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:112 Resp: 5668

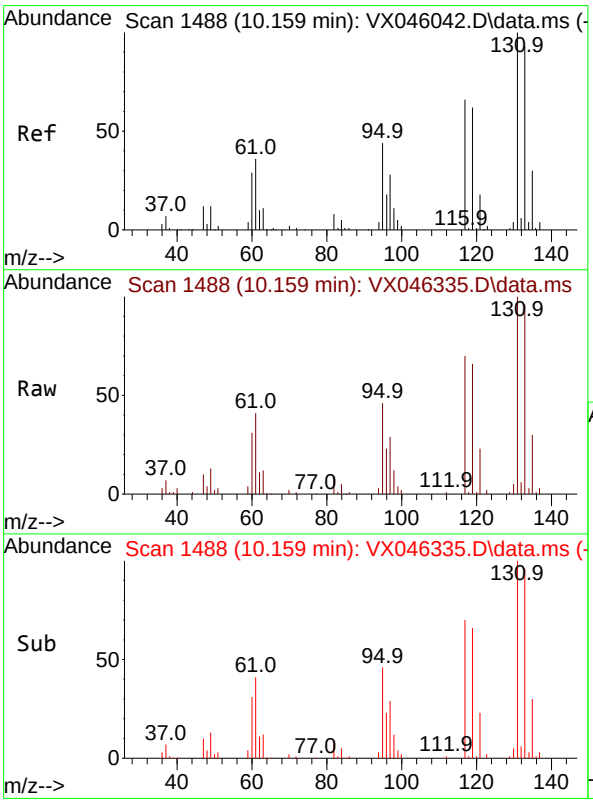
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 29.8 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

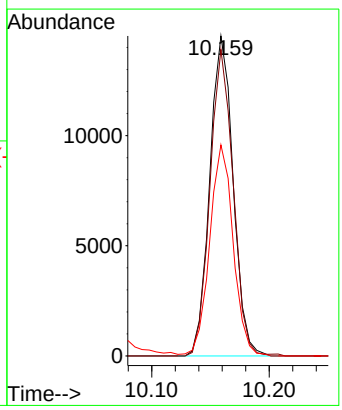
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

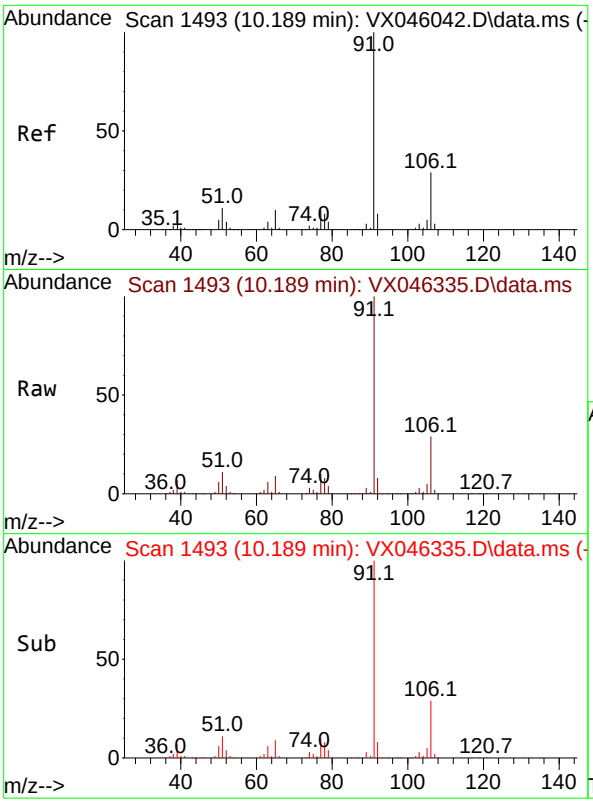



#66
1,1,1,2-Tetrachloroethane
Concen: 20.742 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:131 Resp: 20064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.8 | 47.3 | 141.9 |
| 119 | 66.3 | 31.6 | 95.0 |

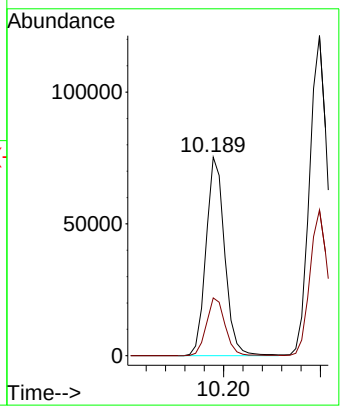





#67
Ethyl Benzene
Concen: 20.233 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 91 Resp: 10103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.1 | 23.4 | 35.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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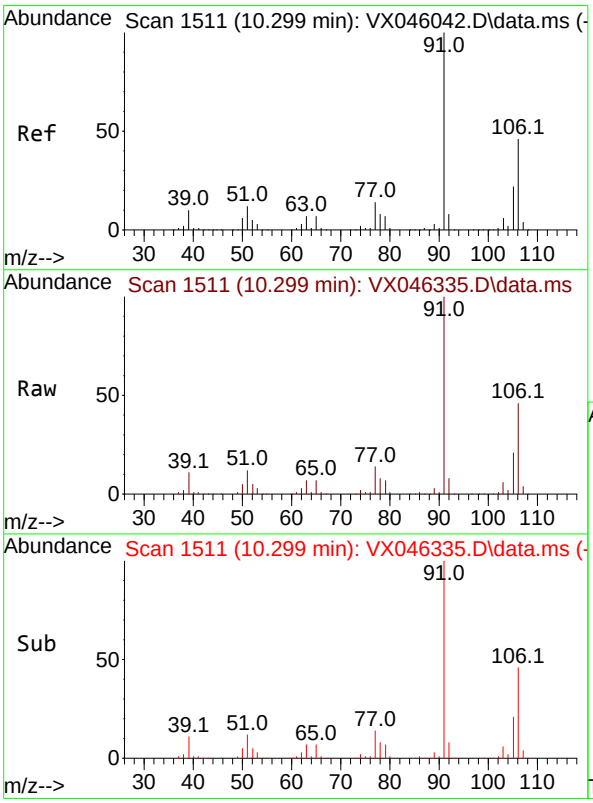
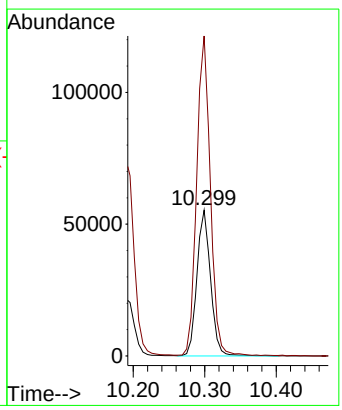
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

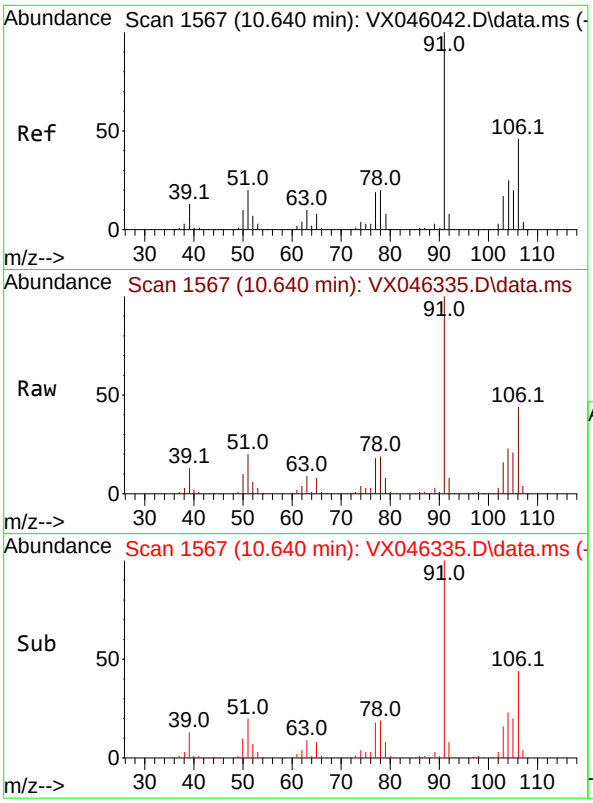



#68
m/p-Xylenes
Concen: 40.007 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:106 Resp: 73066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.0 | 171.2 | 256.8 |

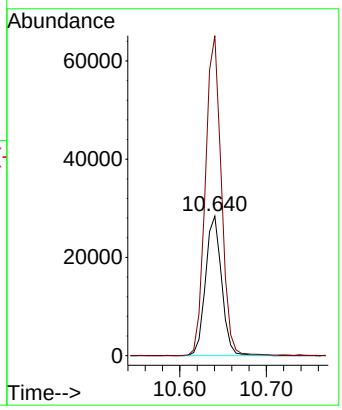





#69
o-Xylene
Concen: 20.562 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:106 Resp: 3661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 228.0 | 112.7 | 338.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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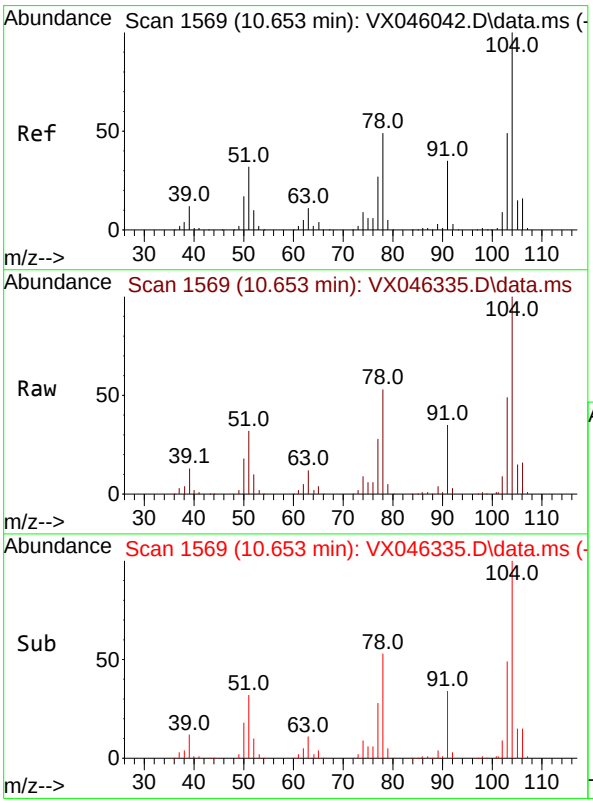
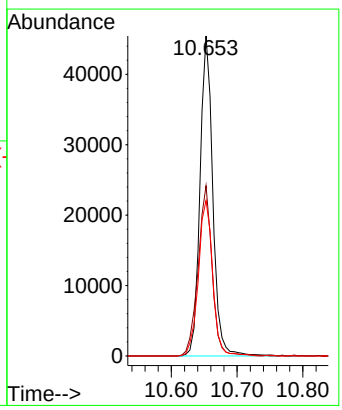
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

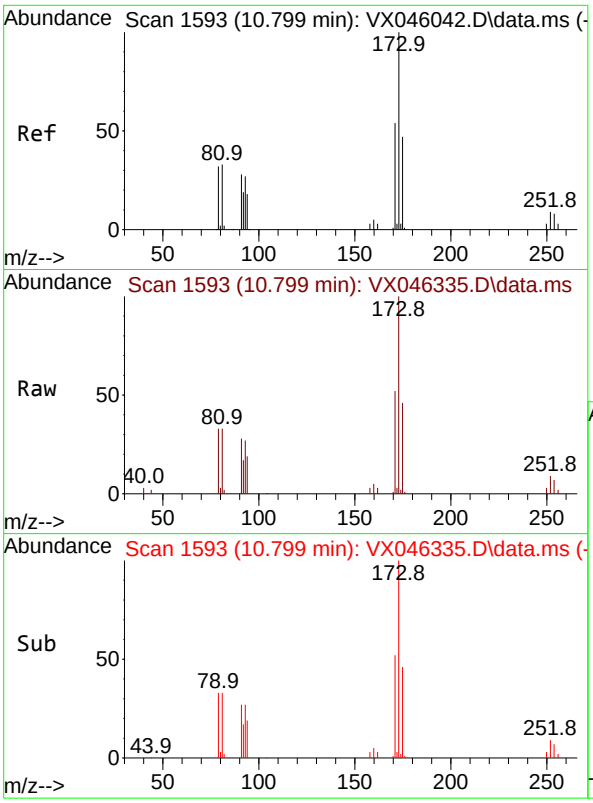



#70
Styrene
Concen: 21.074 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:104 Resp: 61465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 58.4 | 45.7 | 68.5 |
| 103 | 54.4 | 43.7 | 65.5 |

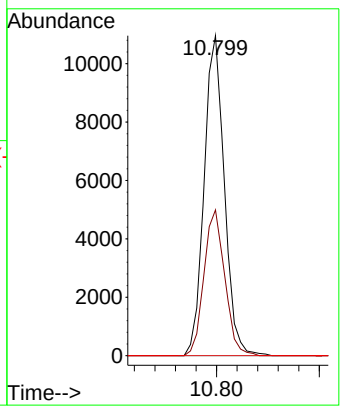





#71
Bromoform
Concen: 20.611 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:173 Resp: 1496

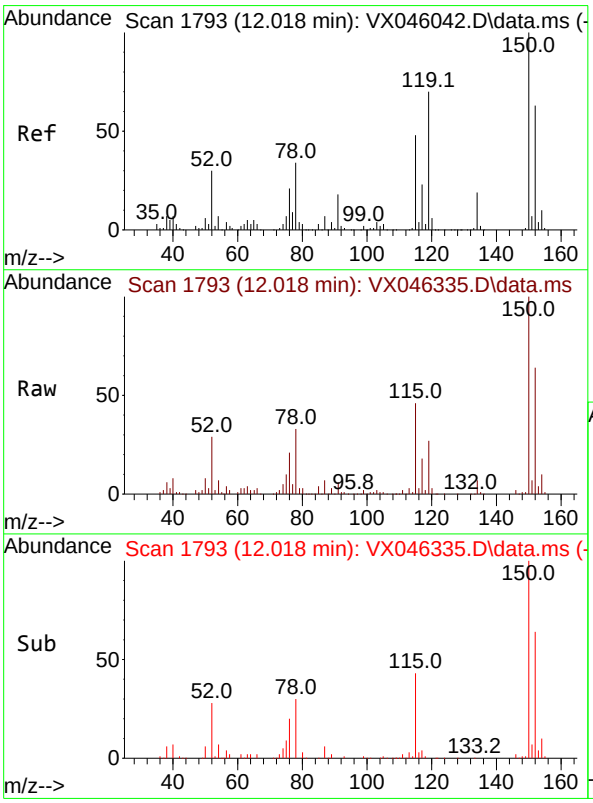
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.9 | 23.4 | 70.0 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

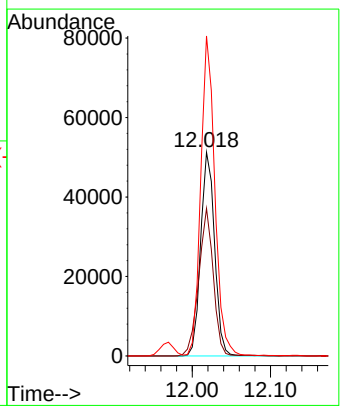
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

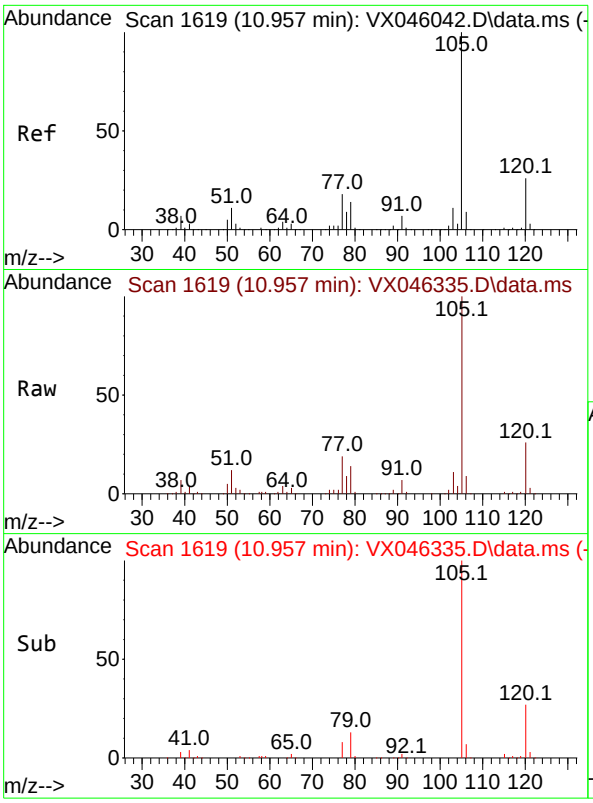



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:152 Resp: 63342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 76.0 | 46.9 | 140.7 |
| 150 | 158.5 | 0.0 | 351.0 |

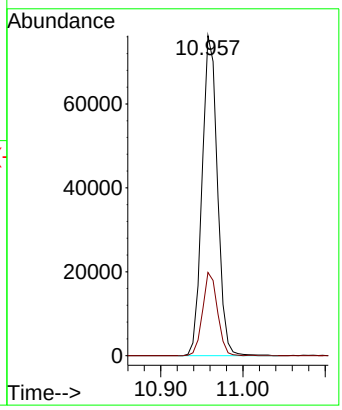





#73
Isopropylbenzene
Concen: 20.038 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:105 Resp: 9881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.2 | 12.8 | 38.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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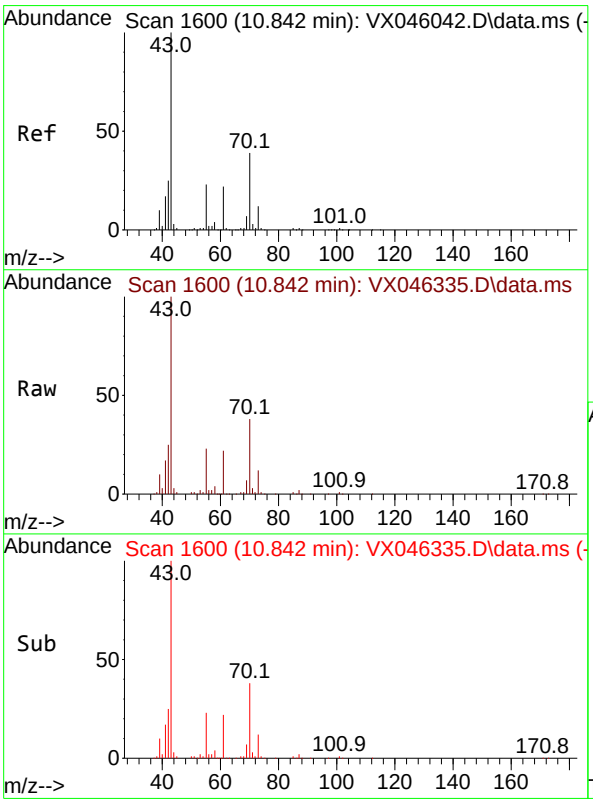
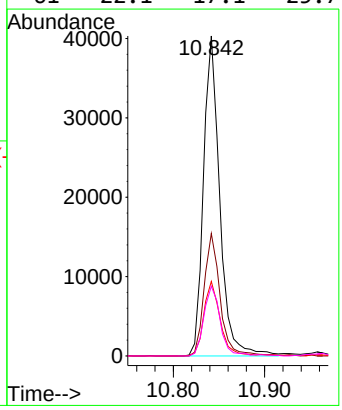
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

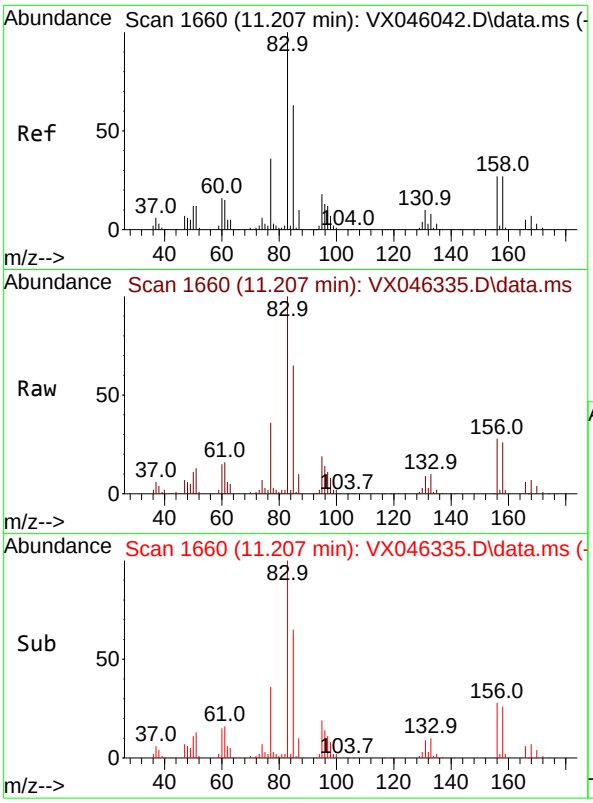



#74
N-amyl acetate
Concen: 20.434 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 43 Resp: 49793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 37.9 | 30.9 | 46.3 |
| 55 | 23.2 | 18.7 | 28.1 |
| 61 | 22.1 | 17.1 | 25.7 |






#75
1,1,2,2-Tetrachloroethane
Concen: 20.182 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 83 Resp: 3487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.7 | 5.0 | 14.9 |
| 85 | 66.3 | 31.9 | 95.7 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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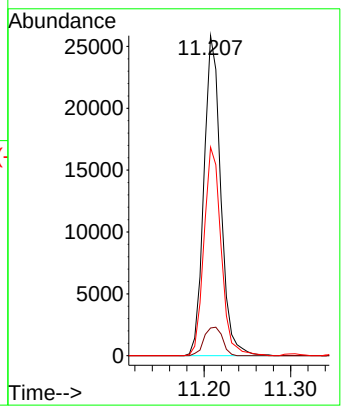
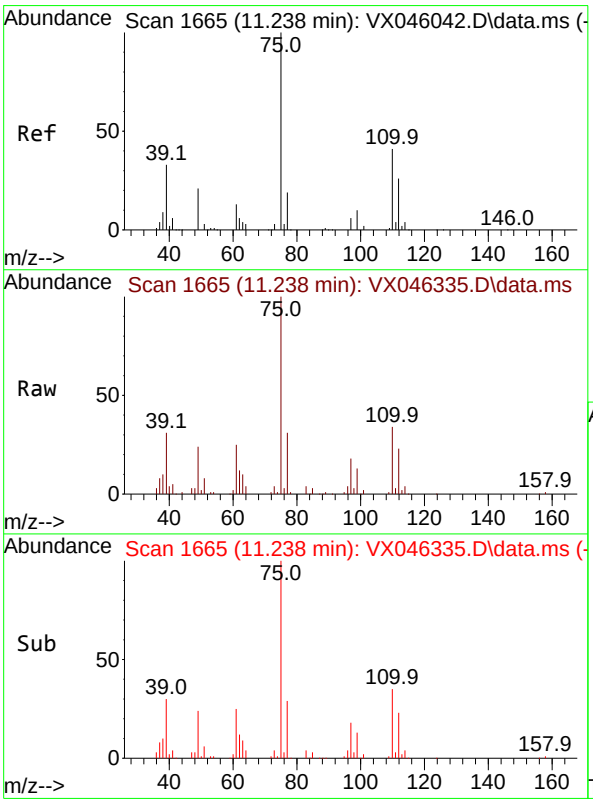
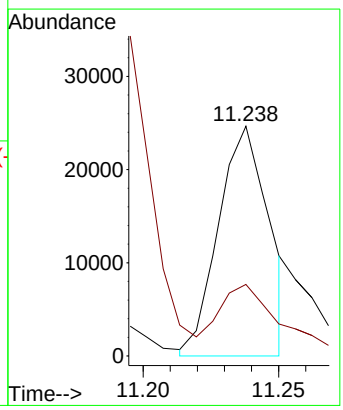


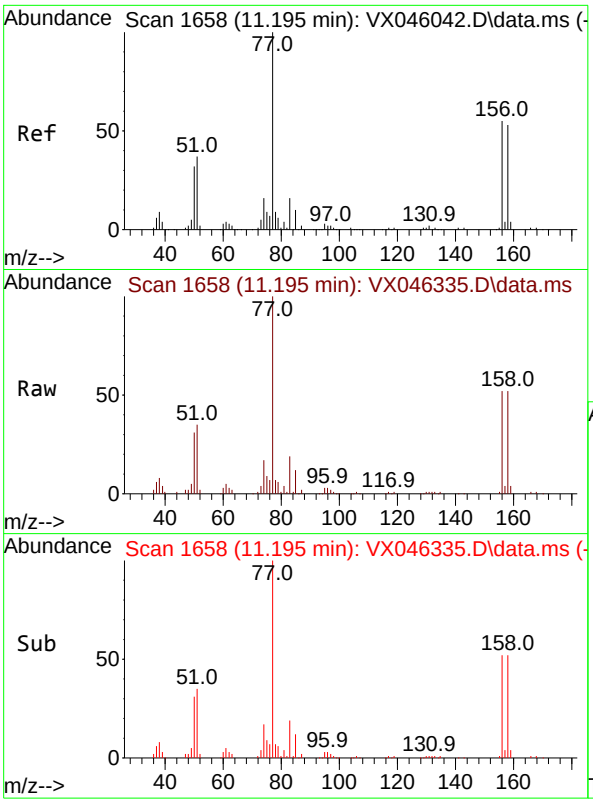




#76
1,2,3-Trichloropropane
Concen: 20.845 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 75 Resp: 31782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 39.4 | 20.5 | 61.5 |

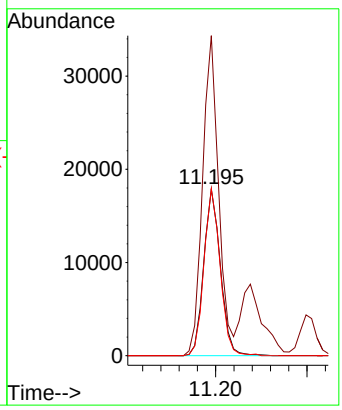





#77
Bromobenzene
Concen: 19.759 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:156 Resp: 2262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 184.8 | 92.8 | 278.3 |
| 158 | 97.3 | 48.8 | 146.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

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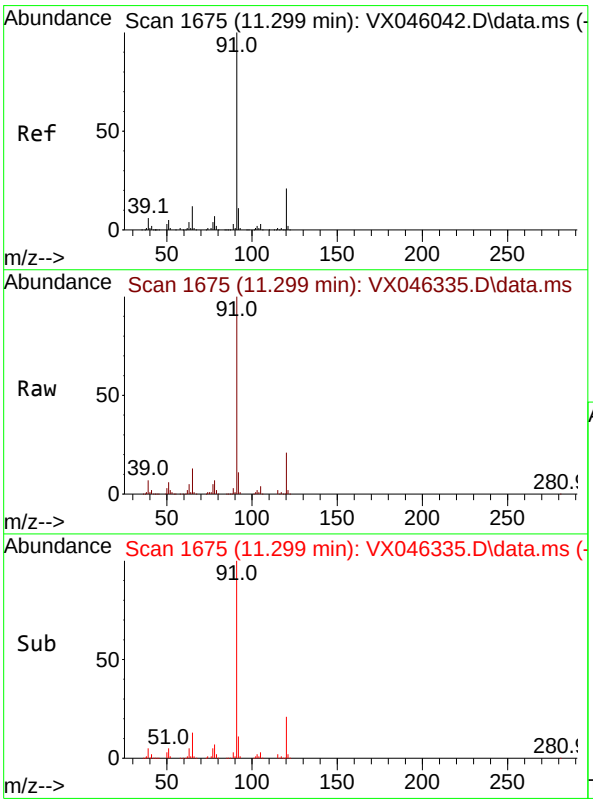
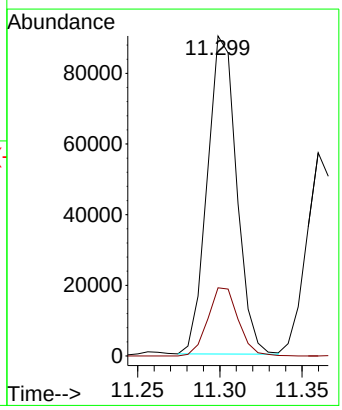
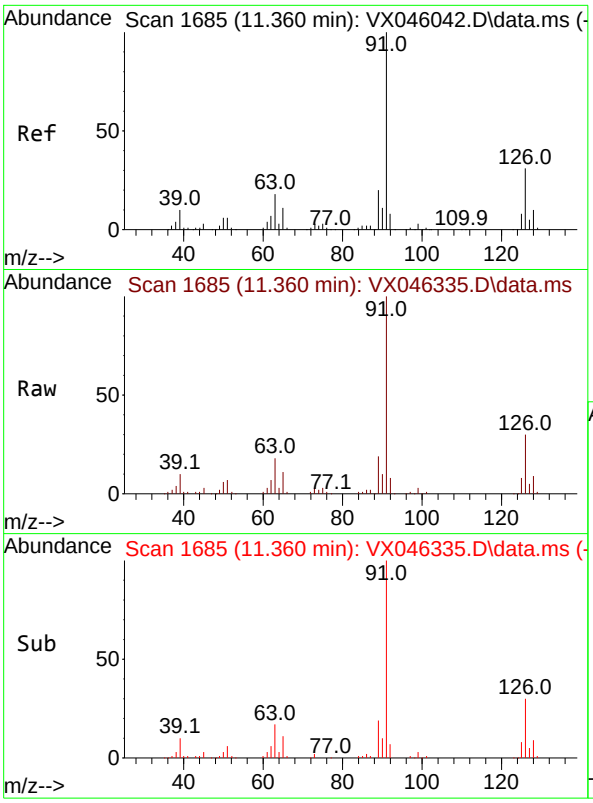



#78
n-propylbenzene
Concen: 19.493 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 91 Resp: 111773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.2 | 10.8 | 32.4 |

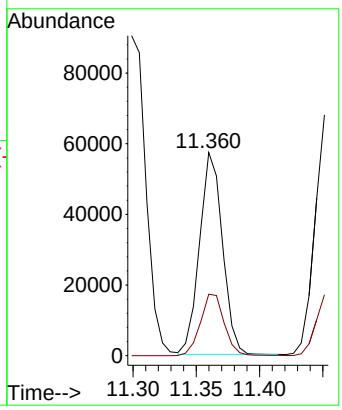





#79
2-Chlorotoluene
Concen: 19.546 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 91 Resp: 7228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.8 | 15.6 | 46.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
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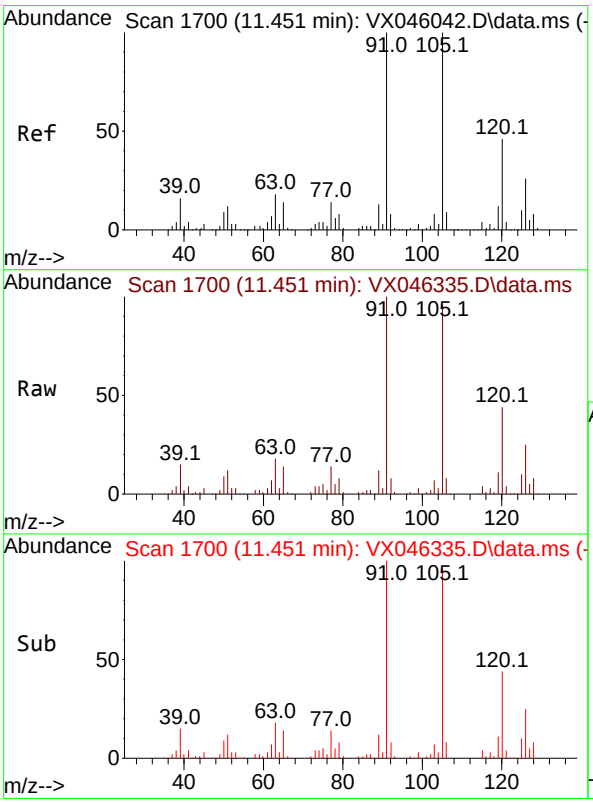
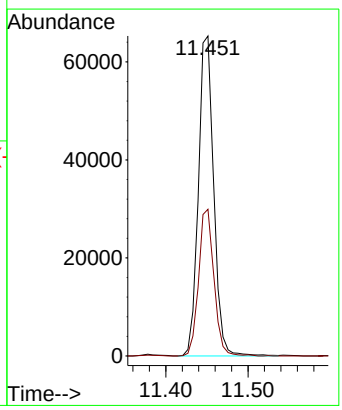
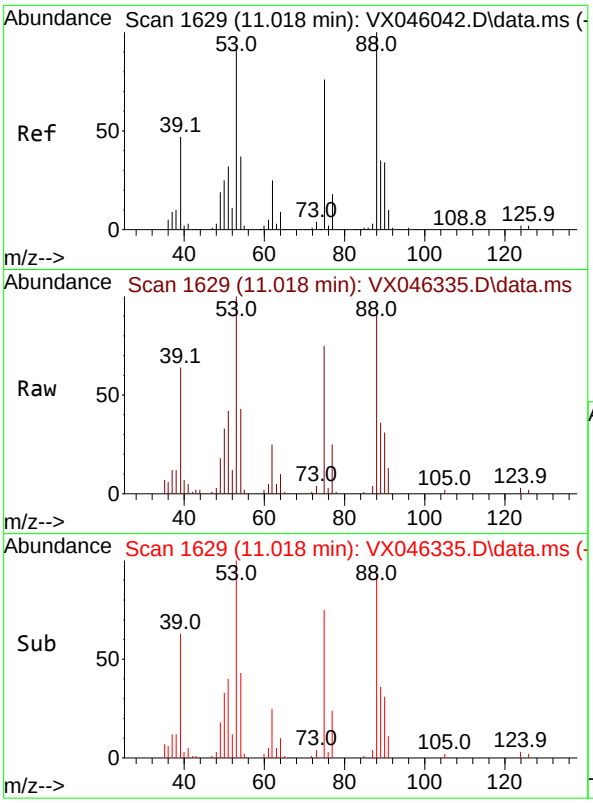



#80
1,3,5-Trimethylbenzene
Concen: 20.516 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:105 Resp: 84521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.0 | 23.1 | 69.2 |






#81
trans-1,4-Dichloro-2-butene
Concen: 18.513 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

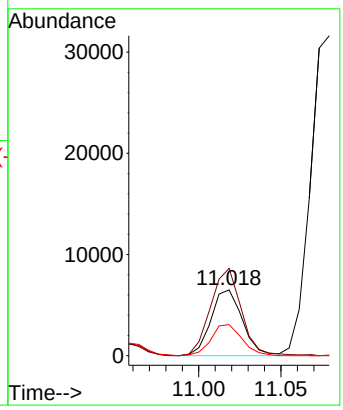
Tgt Ion: 75 Resp: 867

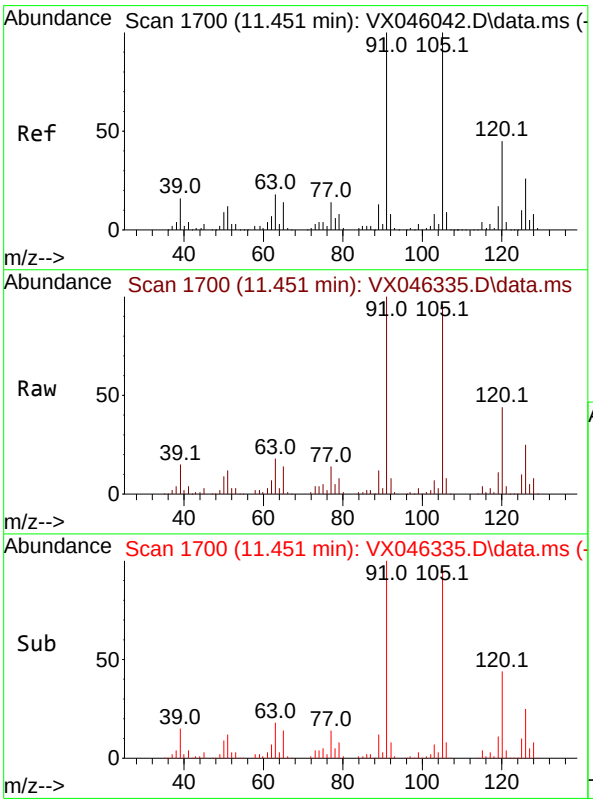
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 129.7 | 100.5 | 150.7 |
| 89 | 46.5 | 37.0 | 55.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

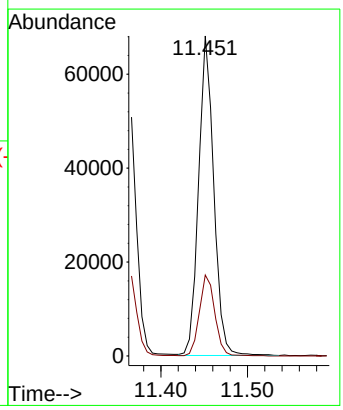


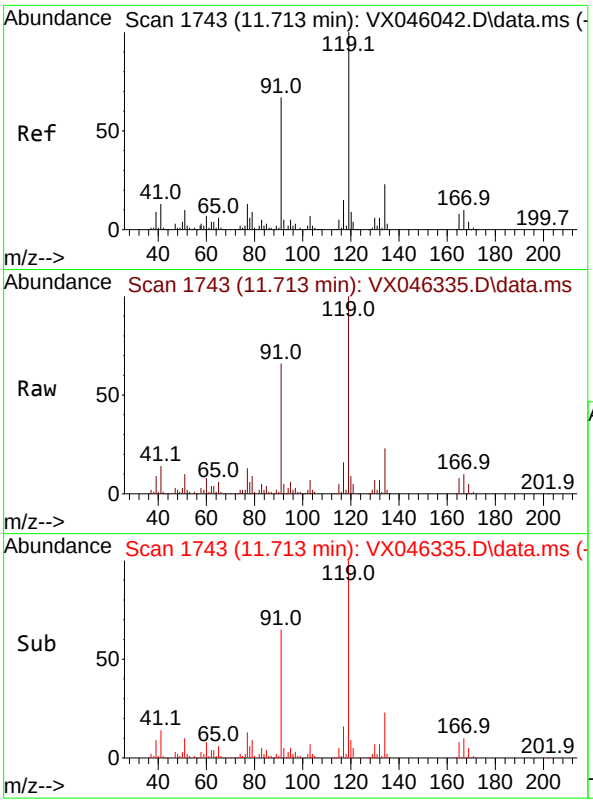




#82
4-Chlorotoluene
Concen: 20.173 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 91 Resp: 82736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 25.9 | 13.3 | 39.8 |

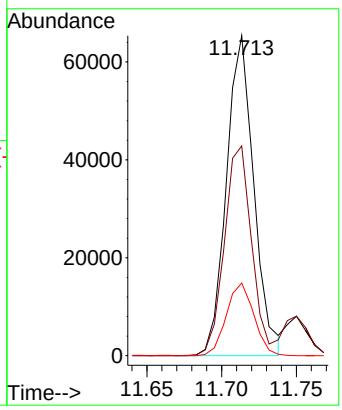





#83
tert-Butylbenzene
Concen: 20.111 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:119 Resp: 8345

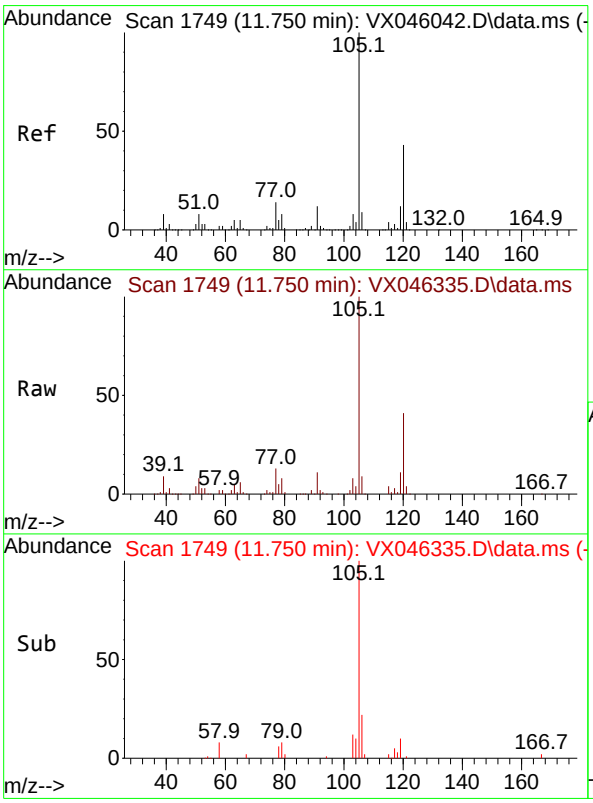
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.8 | 32.9 | 98.7 |
| 134 | 22.8 | 11.4 | 34.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

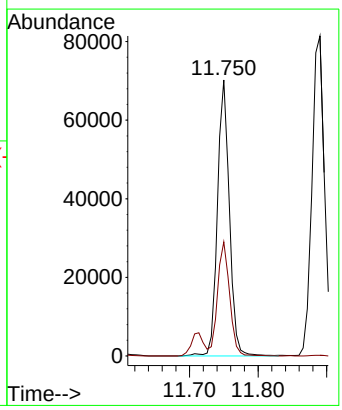
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

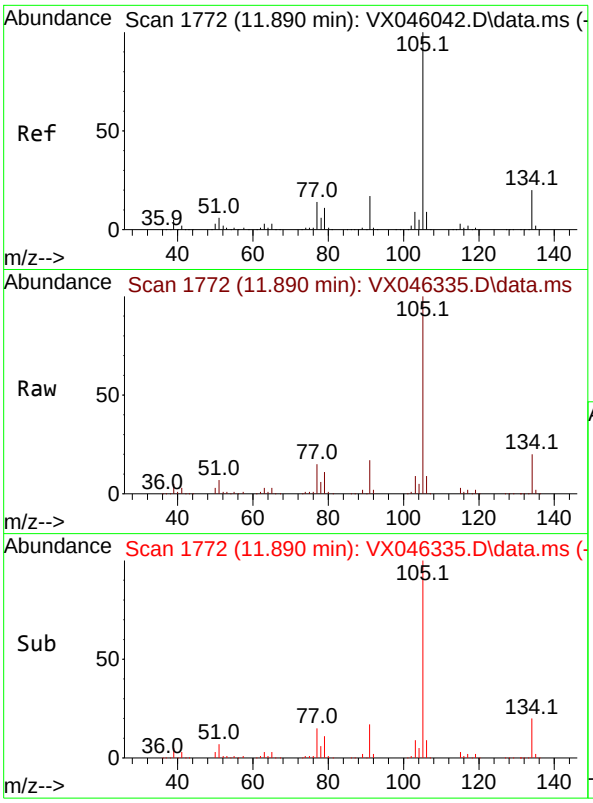



#84
1,2,4-Trimethylbenzene
Concen: 20.352 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:105 Resp: 84911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 41.9 | 21.2 | 63.6 |

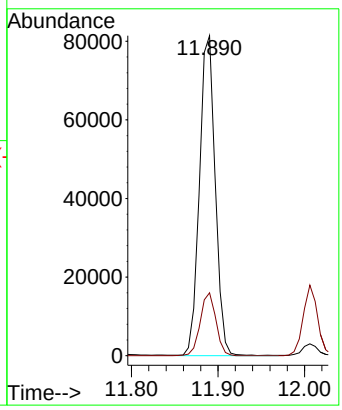





#85
sec-Butylbenzene
Concen: 20.232 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:105 Resp: 10308

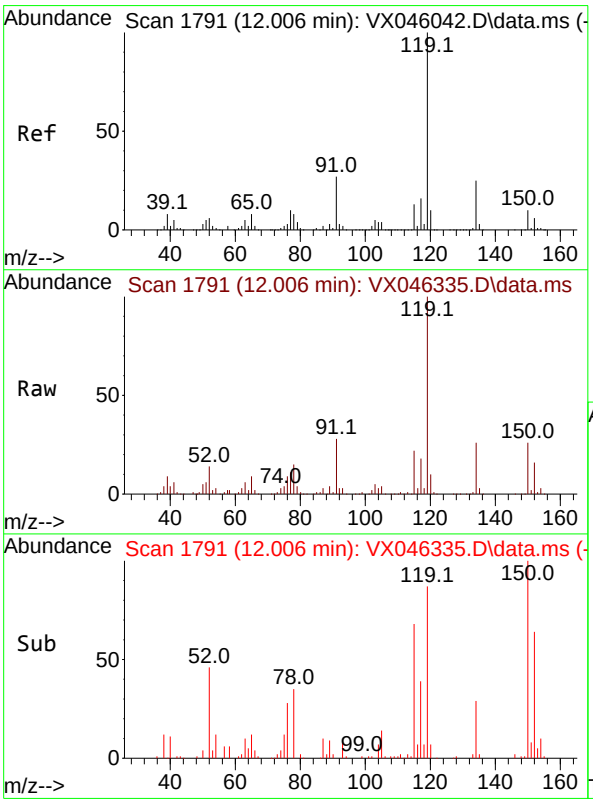
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.7 | 29.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

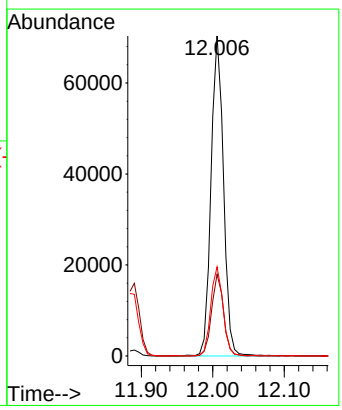
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

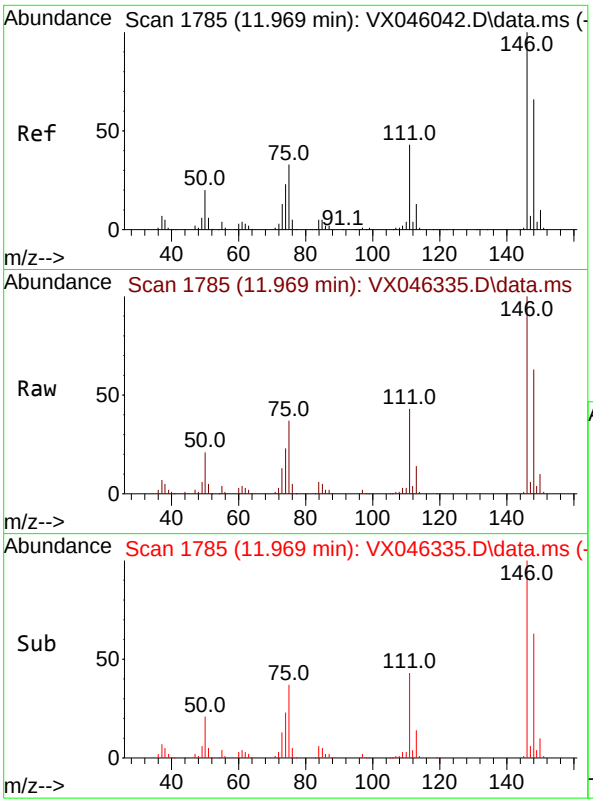



#86
p-Isopropyltoluene
Concen: 20.187 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:119 Resp: 84901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.6 | 12.5 | 37.5 |
| 91 | 27.5 | 13.8 | 41.4 |

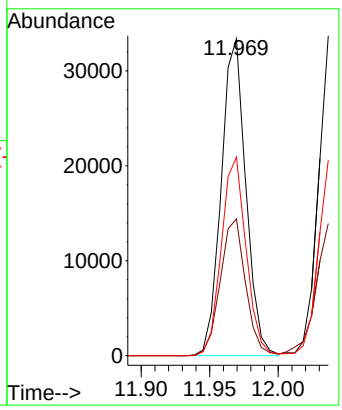





#87
1,3-Dichlorobenzene
Concen: 19.957 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:146 Resp: 4169

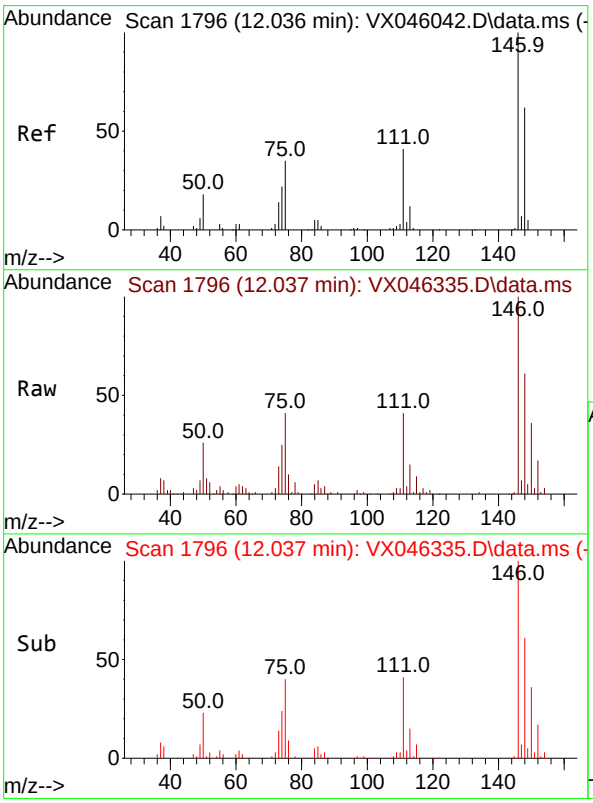
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.4 | 22.1 | 66.3 |
| 148 | 63.1 | 32.1 | 96.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

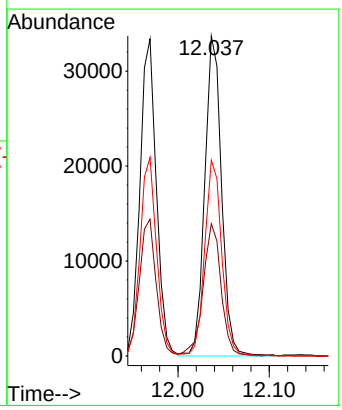
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

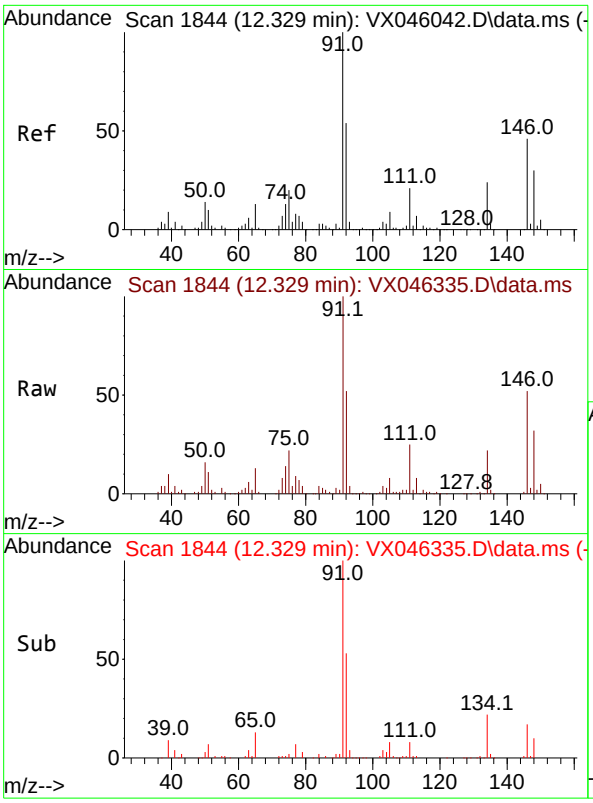



#88
1,4-Dichlorobenzene
Concen: 20.100 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:146 Resp: 42891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.3 | 21.3 | 63.9 |
| 148 | 62.2 | 31.9 | 95.5 |

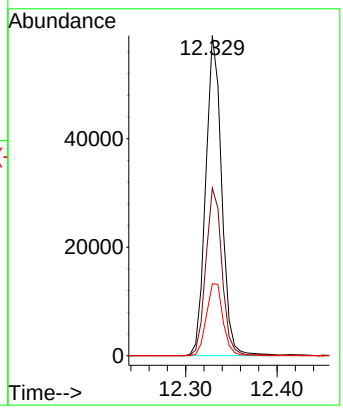





#89
n-Butylbenzene
Concen: 19.320 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 91 Resp: 7127

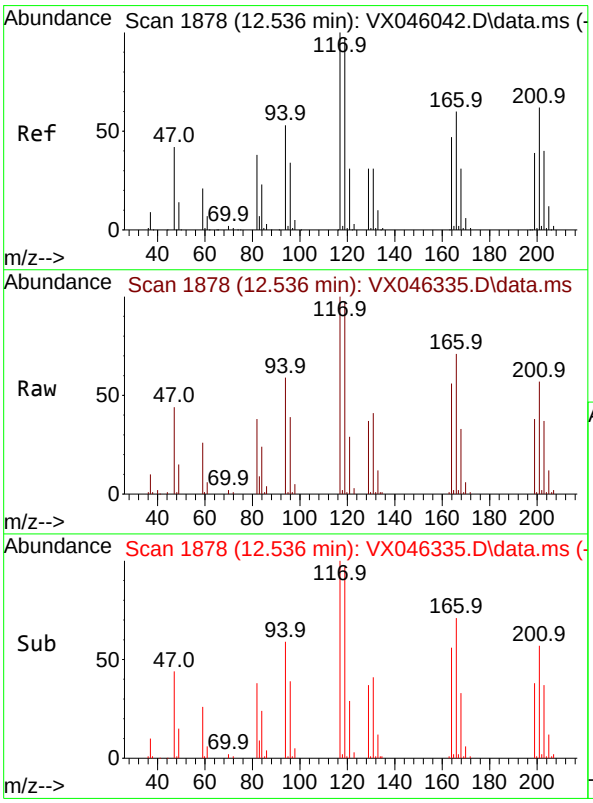
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.0 | 26.9 | 80.7 |
| 134 | 23.4 | 11.8 | 35.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

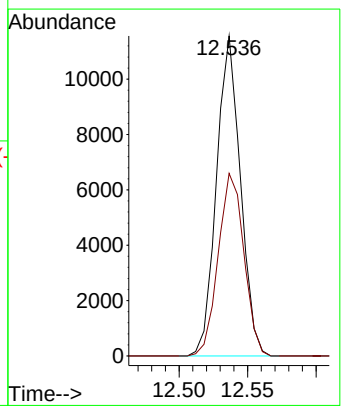
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

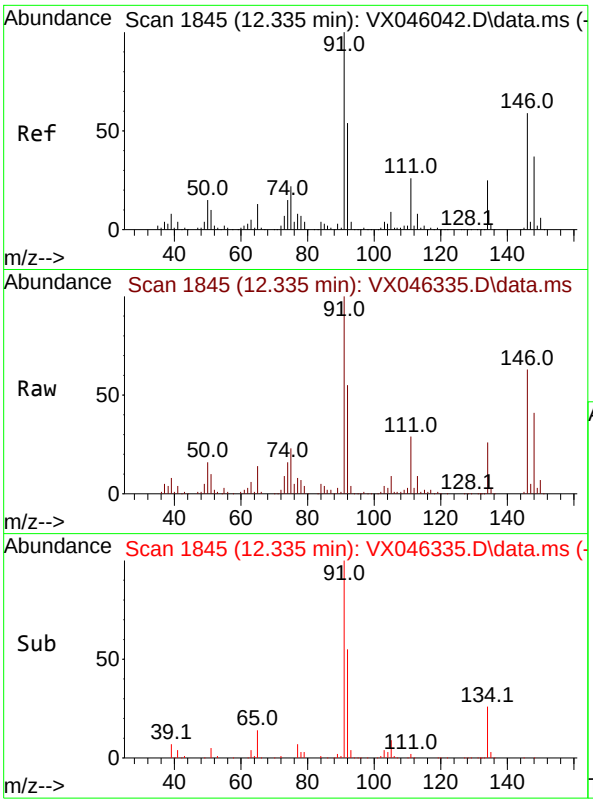



#90
Hexachloroethane
Concen: 18.934 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:117 Resp: 14029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 61.2 | 31.6 | 94.7 |

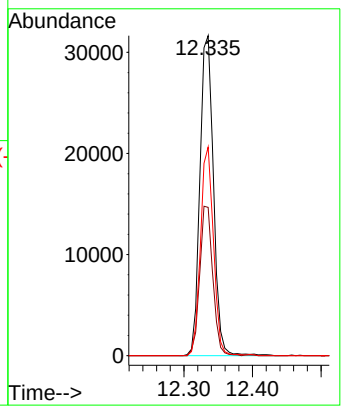





#91
1,2-Dichlorobenzene
Concen: 20.768 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:146 Resp: 4354

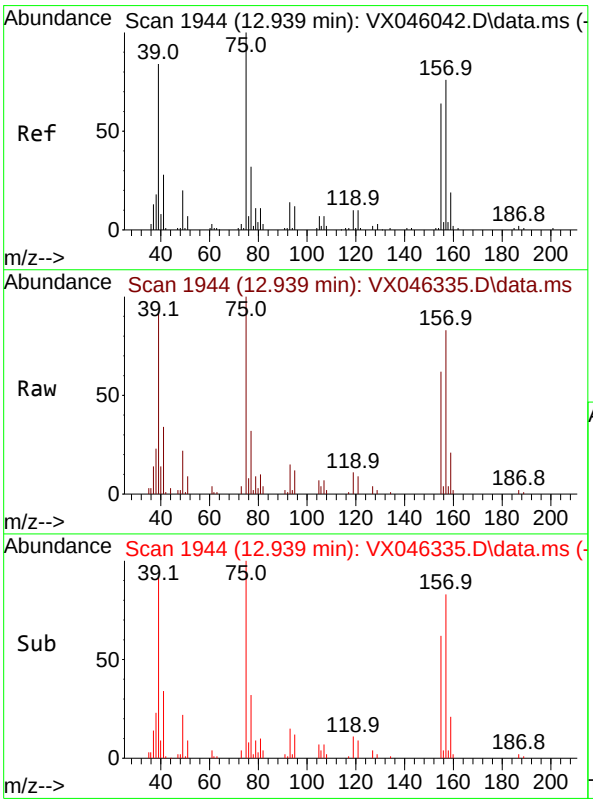
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.2 | 22.4 | 67.3 |
| 148 | 62.4 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

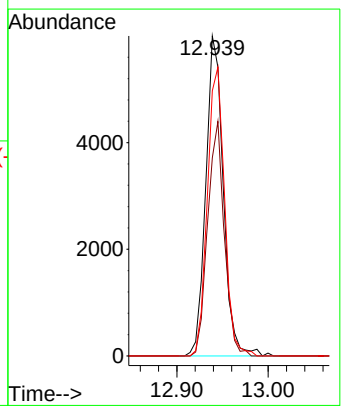
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

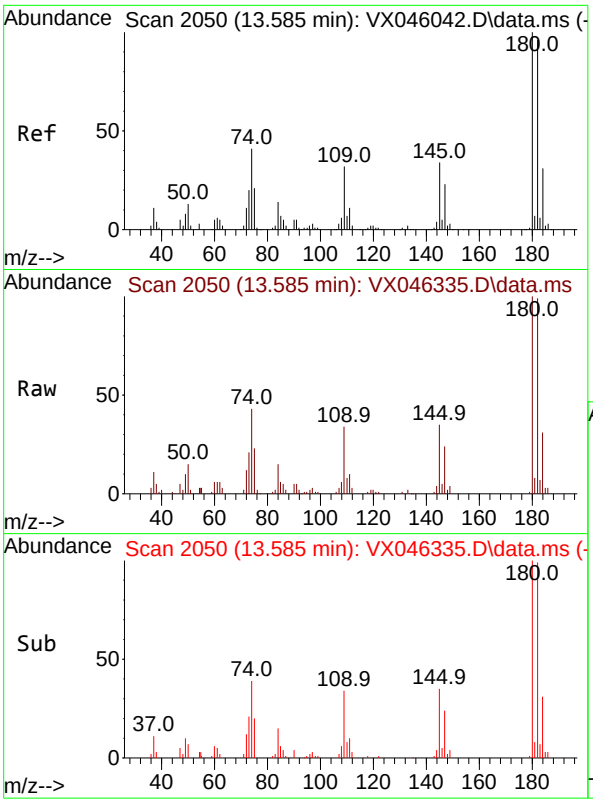



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.852 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion: 75 Resp: 7983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 69.8 | 34.9 | 104.8 |
| 157 | 88.6 | 43.8 | 131.4 |

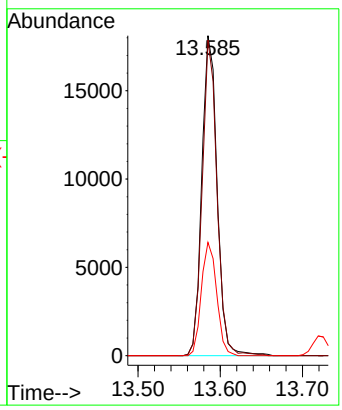





#93
1,2,4-Trichlorobenzene
Concen: 19.456 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:180 Resp: 2343

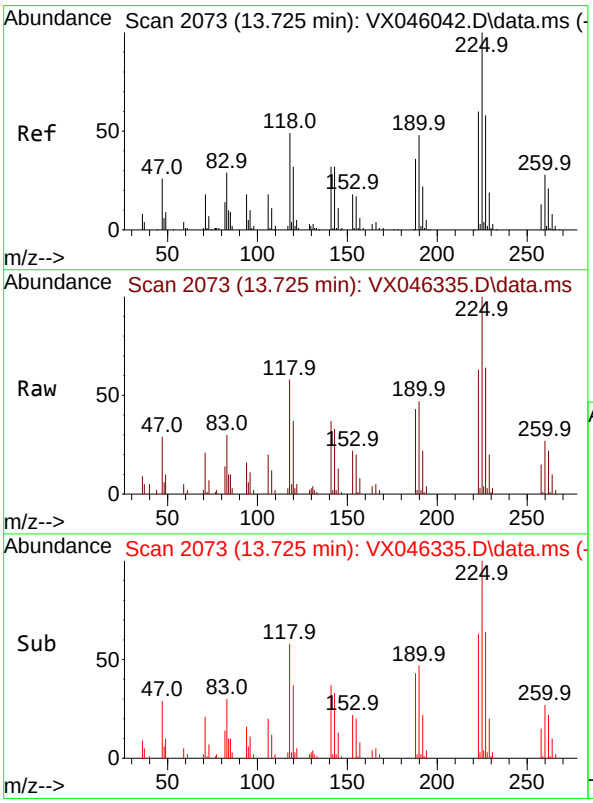
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 47.9 | 143.8 |
| 145 | 35.2 | 17.1 | 51.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

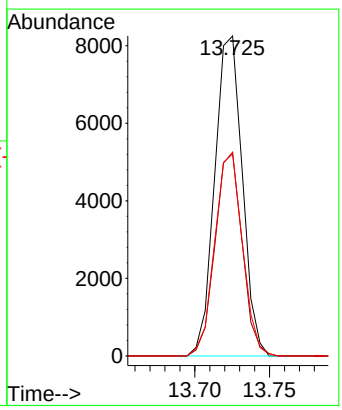
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

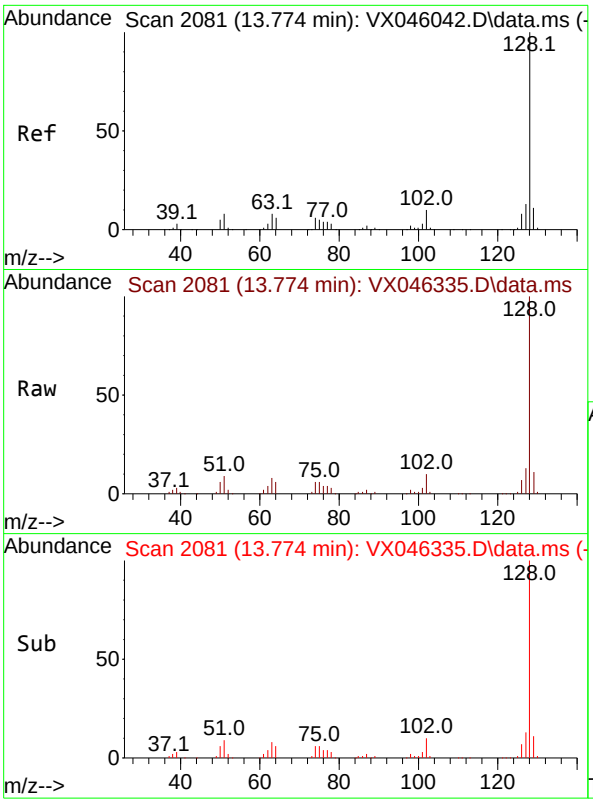



#94
Hexachlorobutadiene
Concen: 20.131 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:225 Resp: 10588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.4 | 30.8 | 92.4 |
| 227 | 63.6 | 30.9 | 92.7 |

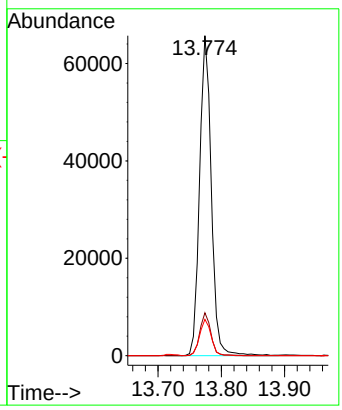





#95
Naphthalene
Concen: 19.233 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:128 Resp: 8495

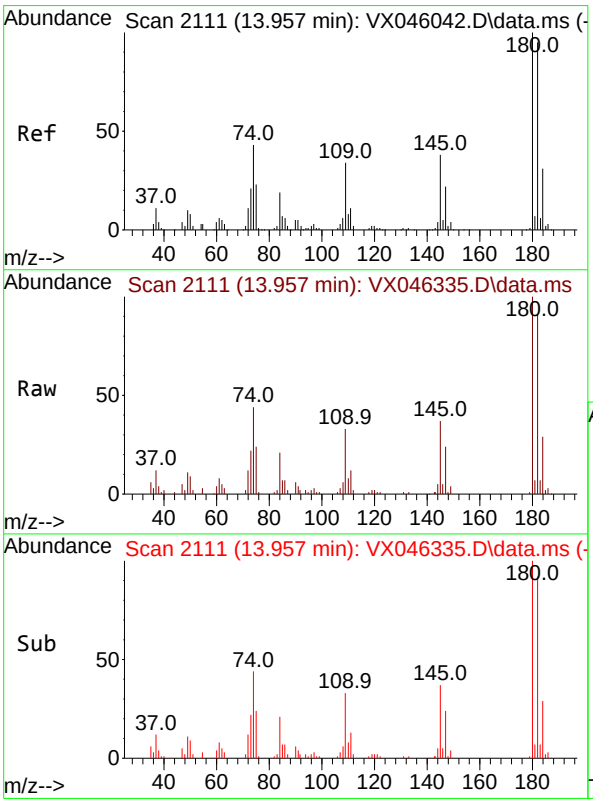
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.7 | 10.4 | 15.6 |
| 129 | 11.2 | 8.6 | 13.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0523MBS01

**Manual Integrations**
**APPROVED**

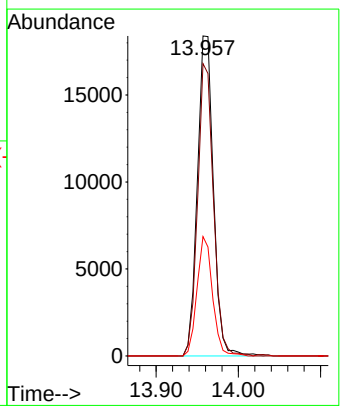
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025




#96
1,2,3-Trichlorobenzene
Concen: 20.055 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046335.D
Acq: 23 May 2025 11:23

Tgt Ion:180 Resp: 24921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 90.1 | 47.8 | 143.3 |
| 145 | 36.1 | 18.1 | 54.3 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | |
| Client Sample ID: | VY0520SBS01 | SDG No.: | Q2075 |
| Lab Sample ID: | VY0520SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022331.D | 1 | | 05/20/25 10:21 | VY052025 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 20.8 | | 0.79 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 20.0 | | 0.78 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 19.8 | | 0.67 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 59.8 | | 2.02 | 15.0 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 20.1 | | 0.78 | 5.00 | ug/Kg |
| 103-65-1 | n-propylbenzene | 20.3 | | 0.73 | 5.00 | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | 19.5 | | 0.82 | 5.00 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 19.8 | | 0.67 | 5.00 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 19.3 | | 0.64 | 5.00 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 20.0 | | 0.66 | 5.00 | ug/Kg |
| 99-87-6 | p-Isopropyltoluene | 19.3 | | 0.62 | 5.00 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 19.7 | | 1.50 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.8 | | 63 - 155 | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.0 | | 70 - 134 | 104% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.5 | | 74 - 123 | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.7 | | 38 - 136 | 95% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 162000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 281000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 237000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 111000 | 13.347 | | | |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022331.D
Acq On : 20 May 2025 10:21
Operator : SY/MD
Sample : VY0520SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 21 01:43:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 162404 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 280923 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 236555 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 111469 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 93712 | 52.798 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 105.600% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 87259 | 52.042 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 104.080% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 353867 | 51.531 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 103.060% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 103841 | 47.707 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 95.420% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 35898 | 21.184 | ug/l | 98 |
| 3) Chloromethane | 2.068 | 50 | 106010 | 29.739 | ug/l | 96 |
| 4) Vinyl Chloride | 2.202 | 62 | 121528 | 30.514 | ug/l | 99 |
| 5) Bromomethane | 2.592 | 94 | 123030 | 37.947 | ug/l | 93 |
| 6) Chloroethane | 2.733 | 64 | 86905 | 35.075 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.044 | 101 | 115381 | 28.614 | ug/l | 96 |
| 8) Diethyl Ether | 3.452 | 74 | 21262 | 21.972 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.806 | 101 | 39180 | 22.382 | ug/l | 98 |
| 10) Methyl Iodide | 4.001 | 142 | 39806 | 19.647 | ug/l | 97 |
| 11) Tert butyl alcohol | 4.885 | 59 | 15076 | 111.229 | ug/l # | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 38409 | 22.110 | ug/l | 99 |
| 13) Acrolein | 3.653 | 56 | 14505 | 73.203 | ug/l | 92 |
| 14) Allyl chloride | 4.379 | 41 | 58664 | 19.259 | ug/l | 91 |
| 15) Acrylonitrile | 5.055 | 53 | 44040 | 110.449 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 33441 | 100.481 | ug/l | 96 |
| 17) Carbon Disulfide | 4.104 | 76 | 121089 | 21.376 | ug/l | 100 |
| 18) Methyl Acetate | 4.391 | 43 | 22221 | 21.176 | ug/l | 94 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 105578 | 22.042 | ug/l | 100 |
| 20) Methylene Chloride | 4.616 | 84 | 43159 | 20.069 | ug/l | 92 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 41335 | 21.557 | ug/l | 94 |
| 22) Diisopropyl ether | 6.013 | 45 | 129506 | 20.133 | ug/l | 94 |
| 23) Vinyl Acetate | 5.958 | 43 | 393589 | 101.282 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 76757 | 21.359 | ug/l | 99 |
| 25) 2-Butanone | 6.897 | 43 | 57164 | 102.685 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 65941 | 20.630 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 47974 | 21.681 | ug/l | 98 |
| 28) Bromochloromethane | 7.244 | 49 | 32721 | 21.346 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.262 | 42 | 38507 | 107.516 | ug/l | 95 |
| 30) Chloroform | 7.421 | 83 | 76921 | 22.315 | ug/l | 97 |
| 31) Cyclohexane | 7.701 | 56 | 74031 | 20.618 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 67990 | 21.499 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 54092 | 19.586 | ug/l | 96 |
| 37) Ethyl Acetate | 6.982 | 43 | 27235 | 20.496 | ug/l | 97 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 59086 | 20.669 | ug/l | 100 |
| 39) Methylcyclohexane | 9.110 | 83 | 75810 | 20.432 | ug/l | 95 |
| 40) Benzene | 8.079 | 78 | 170661 | 20.845 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022331.D
Acq On : 20 May 2025 10:21
Operator : SY/MD
Sample : VY0520SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 21 01:43:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 15384 | 17.453 ug/l # | 84 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 47209 | 21.323 ug/l | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 58799 | 20.290 ug/l | 97 |
| 44) Trichloroethene | 8.866 | 130 | 41880 | 20.573 ug/l | 96 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 40216 | 20.374 ug/l | 96 |
| 46) Dibromomethane | 9.231 | 93 | 22879 | 21.490 ug/l | 98 |
| 47) Bromodichloromethane | 9.420 | 83 | 57637 | 20.869 ug/l | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 26138 | 19.286 ug/l | 92 |
| 49) 1,4-Dioxane | 9.238 | 88 | 5078 | 422.215 ug/l # | 88 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 142570 | 100.263 ug/l | 97 |
| 52) Toluene | 10.170 | 92 | 103885 | 20.038 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 54150 | 20.090 ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 62298 | 20.174 ug/l | 97 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 28800 | 21.126 ug/l | 97 |
| 56) Ethyl methacrylate | 10.439 | 69 | 43432 | 20.452 ug/l | 96 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 51011 | 21.060 ug/l | 97 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 83740 | 87.855 ug/l | 99 |
| 59) 2-Hexanone | 10.762 | 43 | 93178 | 97.733 ug/l | 96 |
| 60) Dibromochloromethane | 10.908 | 129 | 36043 | 20.369 ug/l | 98 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 27035 | 21.277 ug/l | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 47128 | 21.554 ug/l | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 109284 | 20.477 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 36824 | 20.070 ug/l | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 198160 | 19.826 ug/l | 98 |
| 68) m/p-Xylenes | 11.627 | 106 | 149258 | 39.630 ug/l | 98 |
| 69) o-Xylene | 11.957 | 106 | 71971 | 20.198 ug/l | 97 |
| 70) Styrene | 11.969 | 104 | 118483 | 19.712 ug/l | 99 |
| 71) Bromoform | 12.133 | 173 | 20531 | 20.732 ug/l # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 185361 | 20.072 ug/l | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 50457 | 19.104 ug/l | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 29407 | 20.706 ug/l | 97 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 24209m | 21.437 ug/l | |
| 77) Bromobenzene | 12.530 | 156 | 39771 | 20.164 ug/l | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 226302 | 20.317 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 120639 | 19.708 ug/l | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 145541 | 19.524 ug/l | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 10455 | 18.754 ug/l | 98 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 123547 | 19.623 ug/l | 98 |
| 83) tert-Butylbenzene | 12.999 | 119 | 131465 | 19.842 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 142982 | 19.322 ug/l | 97 |
| 85) sec-Butylbenzene | 13.176 | 105 | 196521 | 19.981 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 160020 | 19.345 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 77805 | 19.324 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 77620 | 20.041 ug/l | 97 |
| 89) n-Butylbenzene | 13.615 | 91 | 154259 | 19.712 ug/l | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 32205 | 19.287 ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 13.658 | 146 | 67307 | 19.901 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 5031 | 21.968 ug/l | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 37416 | 19.152 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 20316 | 18.648 ug/l | 99 |
| 95) Naphthalene | 15.145 | 128 | 72453 | 19.543 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 31537 | 19.029 ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022331.D
Acq On : 20 May 2025 10:21
Operator : SY/MD
Sample : VY0520SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 21 01:43:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022331.D
Acq On : 20 May 2025 10:21
Operator : SY/MD
Sample : VY0520SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 21 01:43:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations APPROVED**

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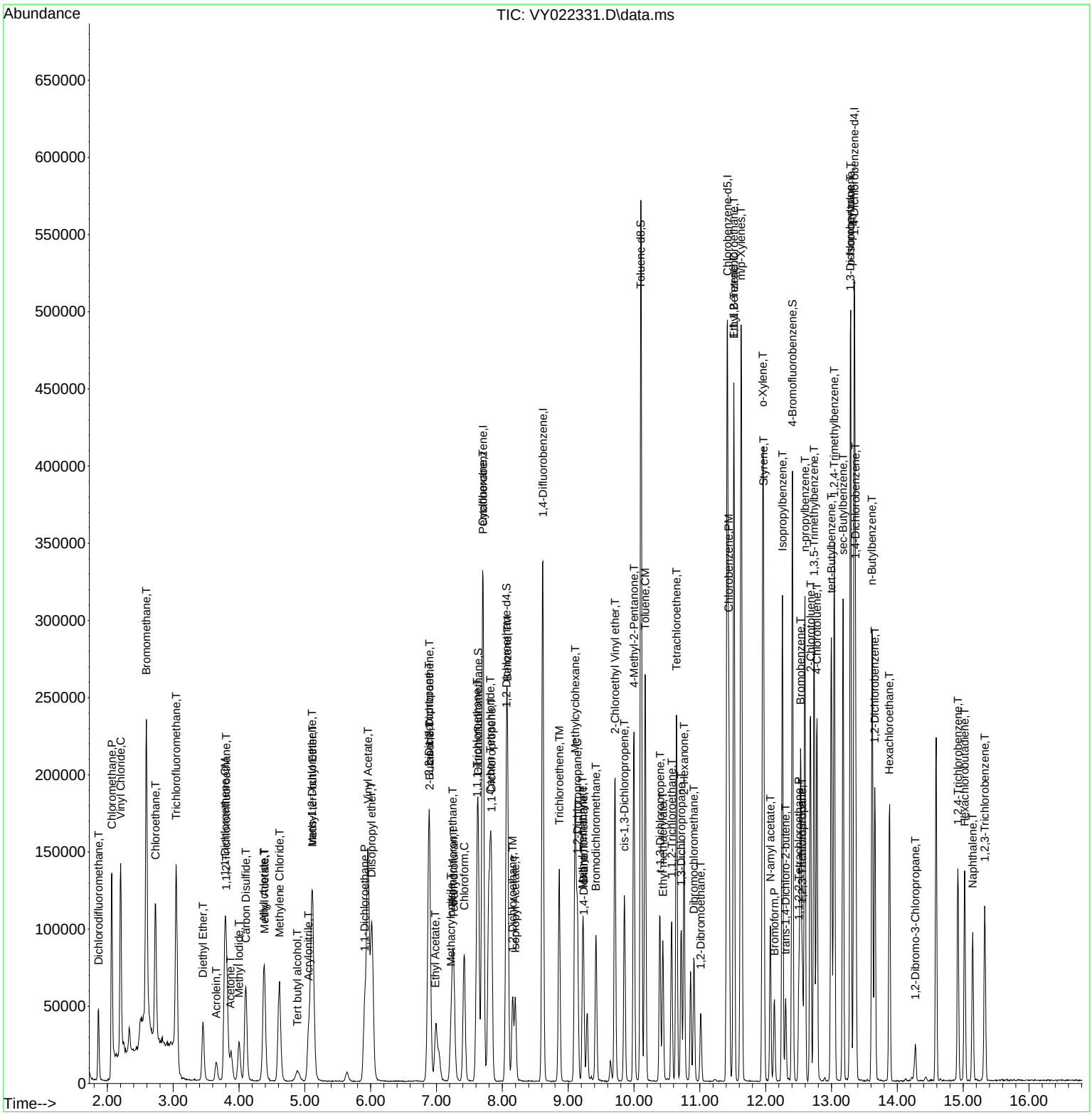
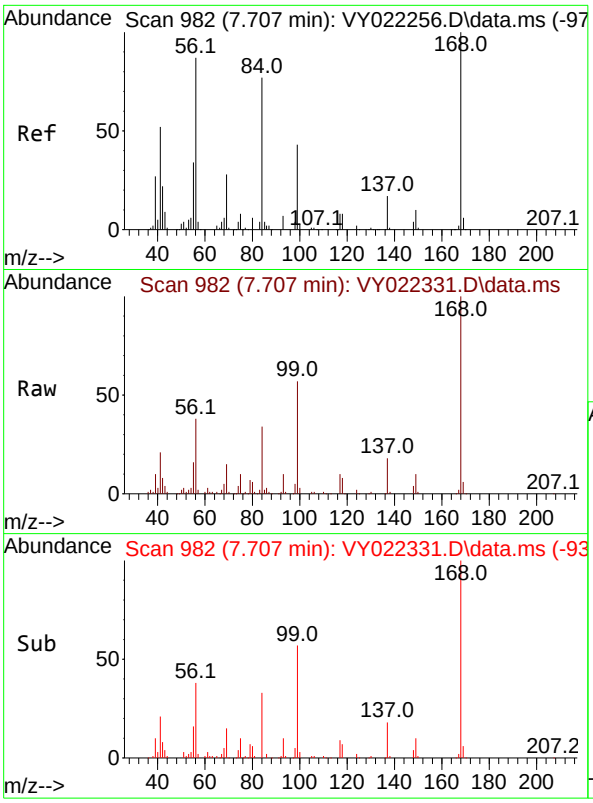
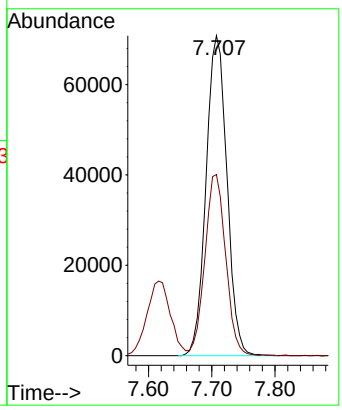





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:168 Resp: 16240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.6 | 44.2 | 66.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
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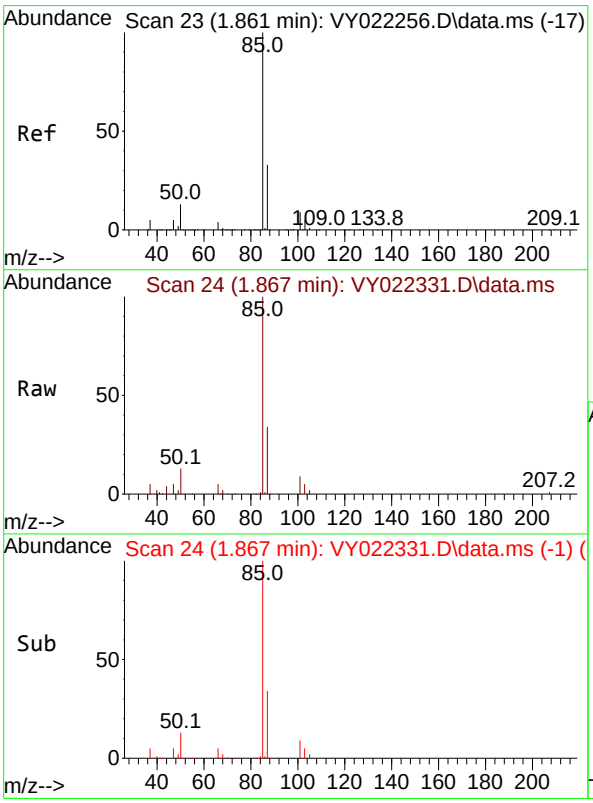
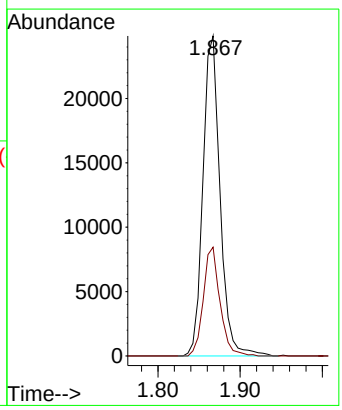
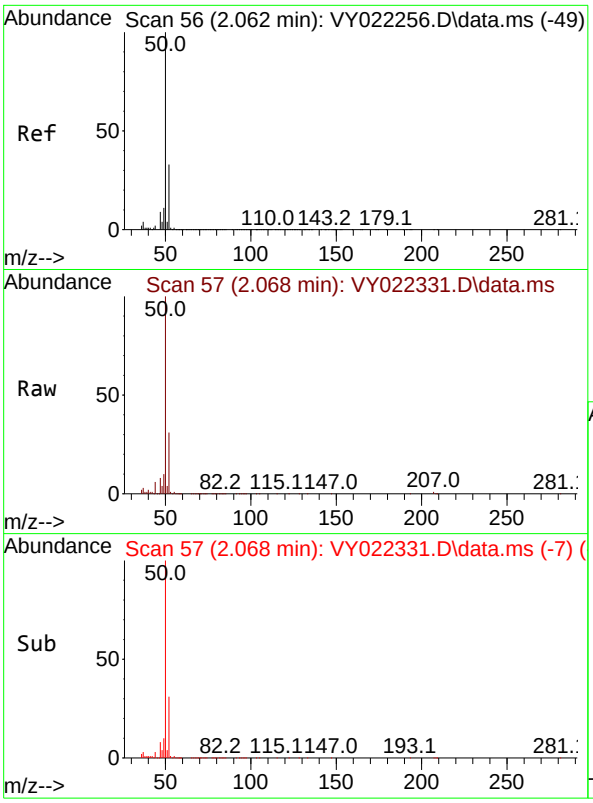



#2
Dichlorodifluoromethane
Concen: 21.184 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 85 Resp: 35898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.0 | 16.5 | 49.5 |

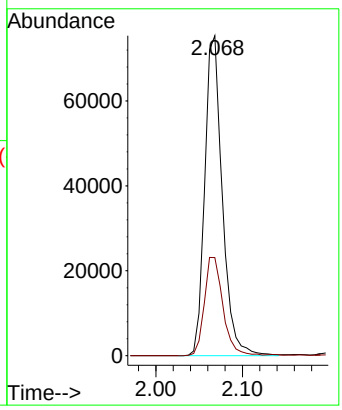





#3
Chloromethane
Concen: 29.739 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 50 Resp: 10601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.7 | 26.5 | 39.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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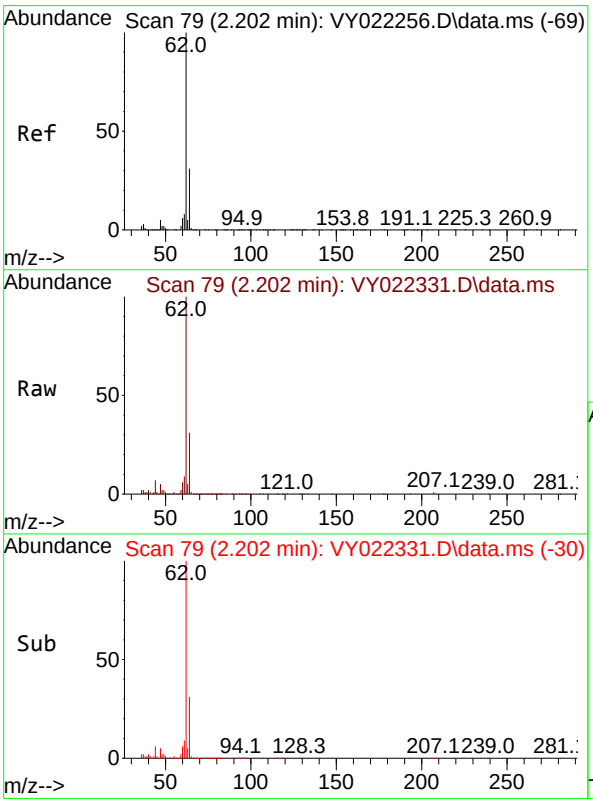
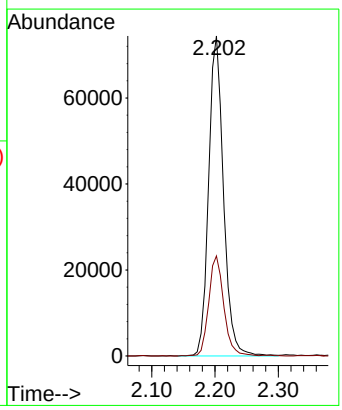
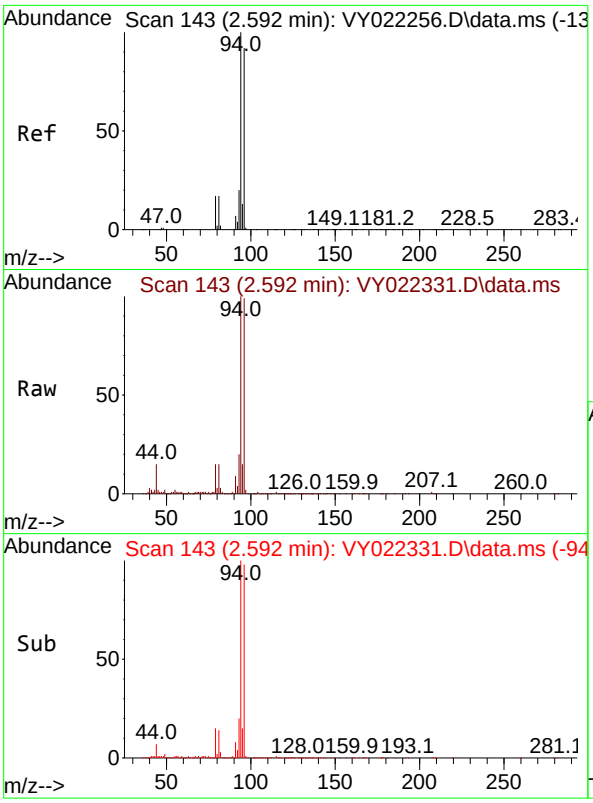



#4
Vinyl Chloride
Concen: 30.514 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 62 Resp: 121528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.3 | 24.5 | 36.7 |

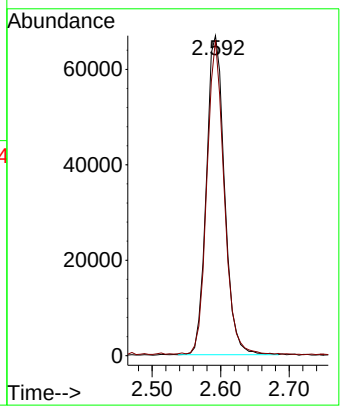





#5
Bromomethane
Concen: 37.947 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 94 Resp: 12303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 98.4 | 73.4 | 110.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
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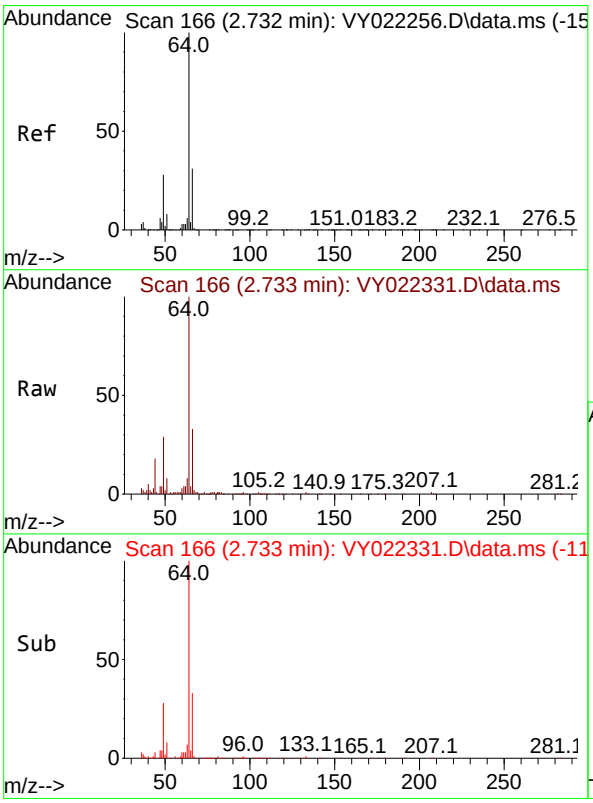
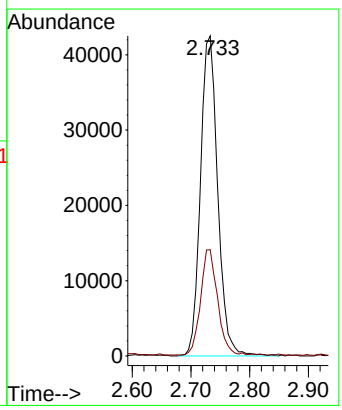
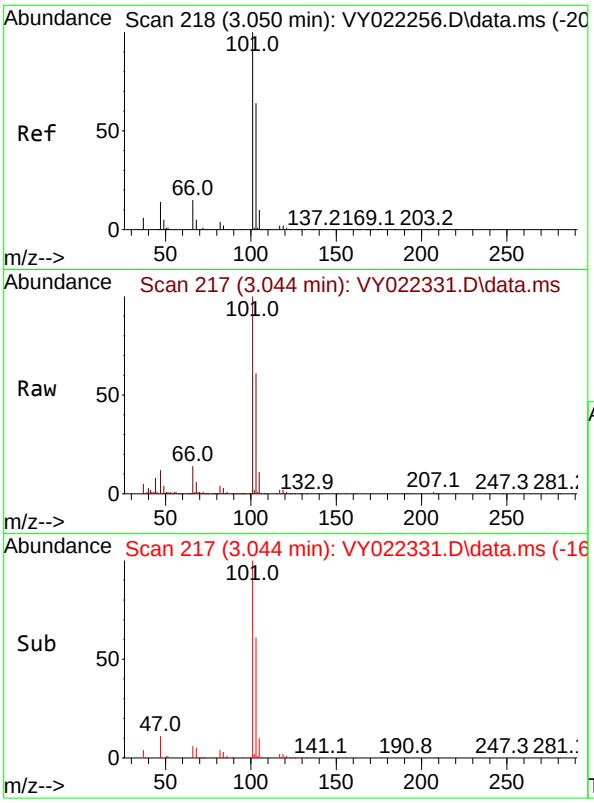



#6
Chloroethane
Concen: 35.075 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 64 Resp: 86905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.8 | 24.8 | 37.2 |

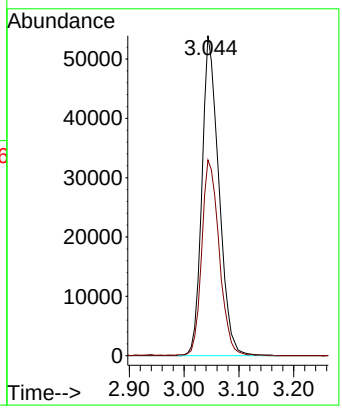





#7
Trichlorofluoromethane
Concen: 28.614 ug/l
RT: 3.044 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:101 Resp: 11538

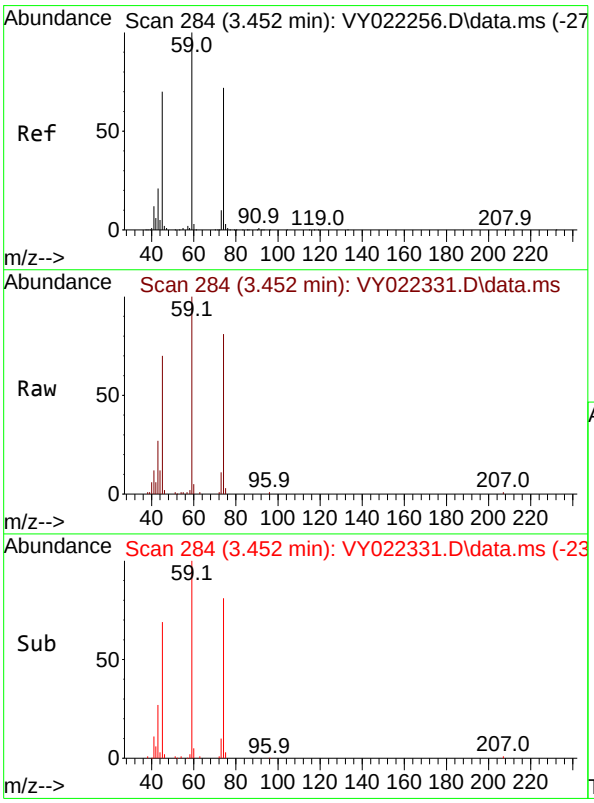
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 61.2 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
**APPROVED**

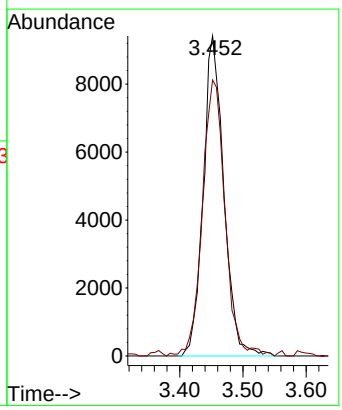
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

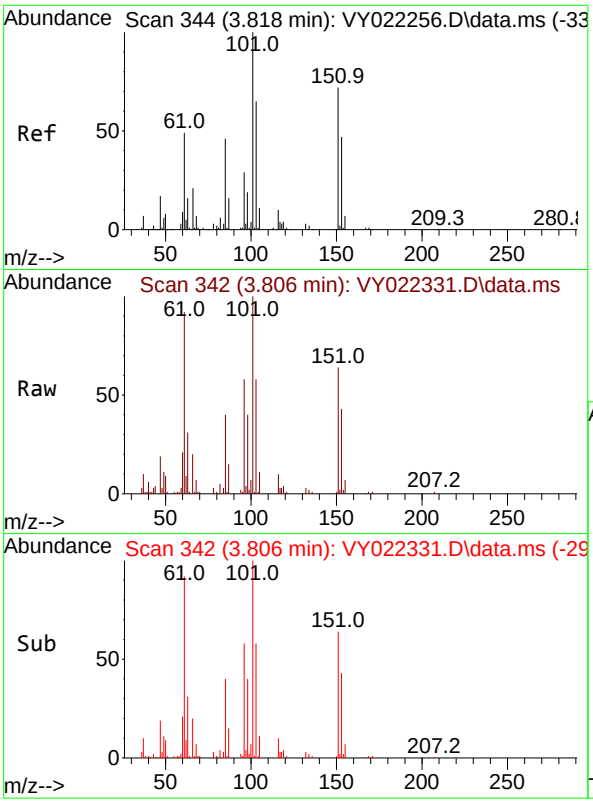



#8
Diethyl Ether
Concen: 21.972 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 74 Resp: 21262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 93.8 | 48.6 | 145.8 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.382 ug/l
RT: 3.806 min Scan# 3
Delta R.T. -0.012 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:101 Resp: 3918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 48.5 | 38.6 | 58.0 |
| 151 | 71.5 | 59.7 | 89.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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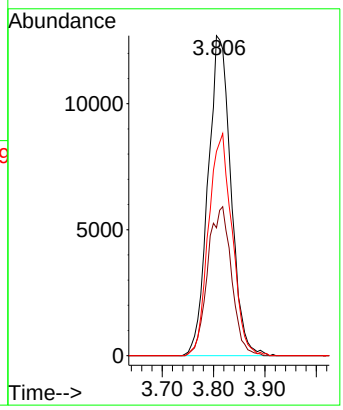
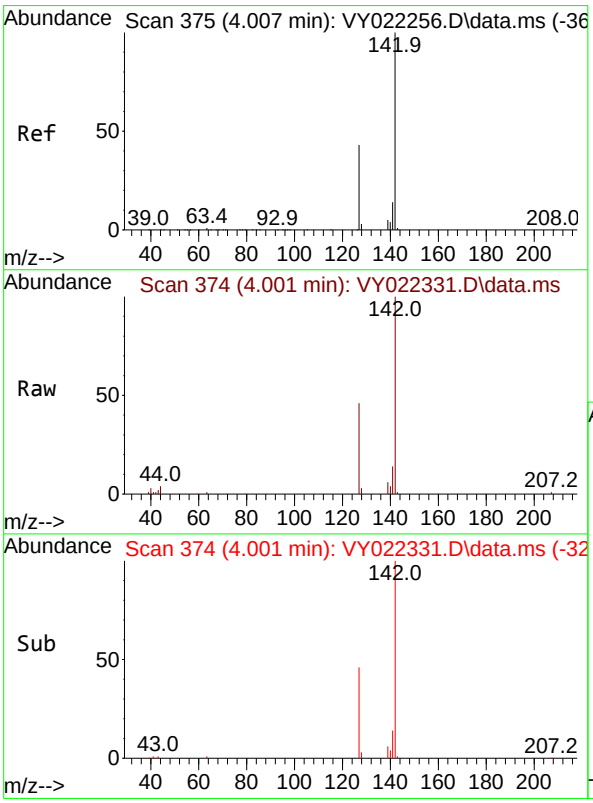
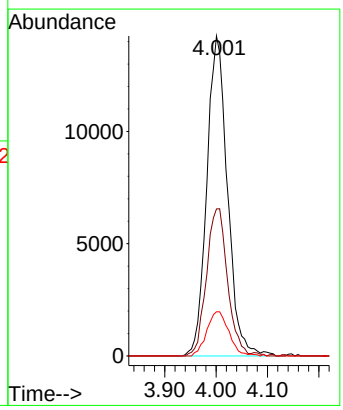


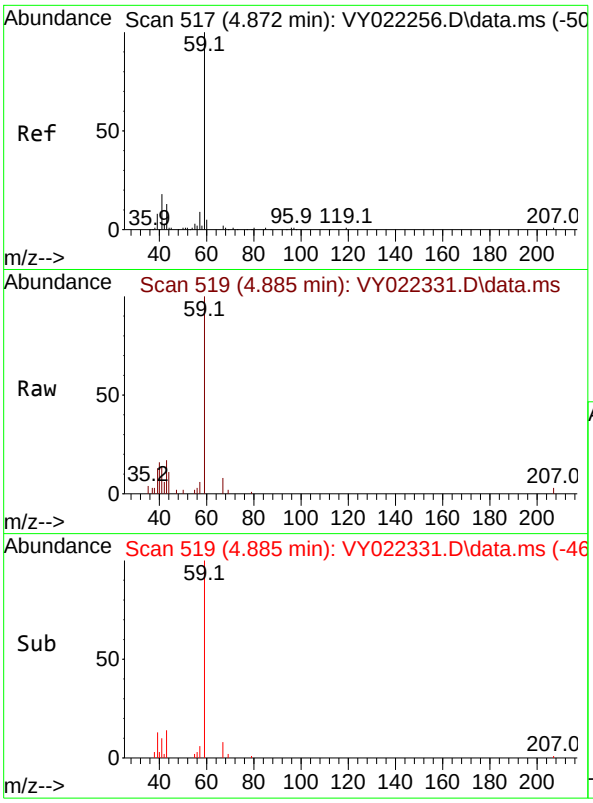




#10
Methyl Iodide
Concen: 19.647 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:142 Resp: 39806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.8 | 35.7 | 53.5 |
| 141 | 14.8 | 11.1 | 16.7 |






#11
Tert butyl alcohol
Concen: 111.229 ug/l
RT: 4.885 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 59 Resp: 1507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 5.9 | 0.0 | 0.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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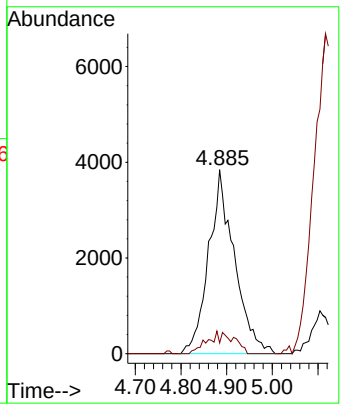
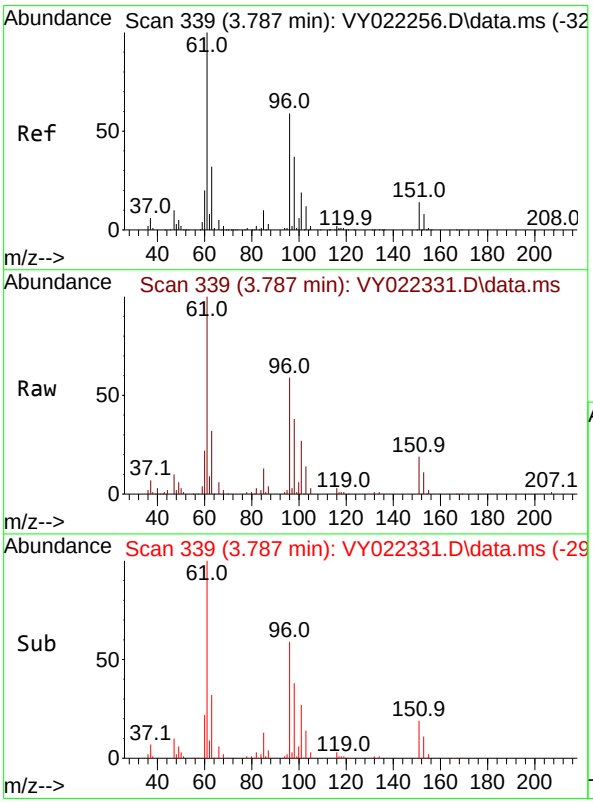
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

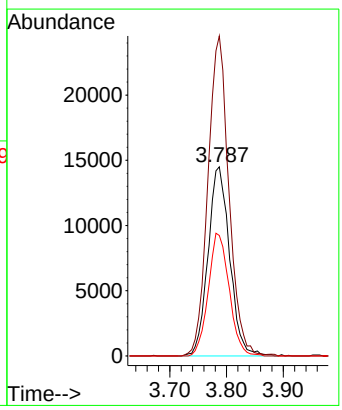


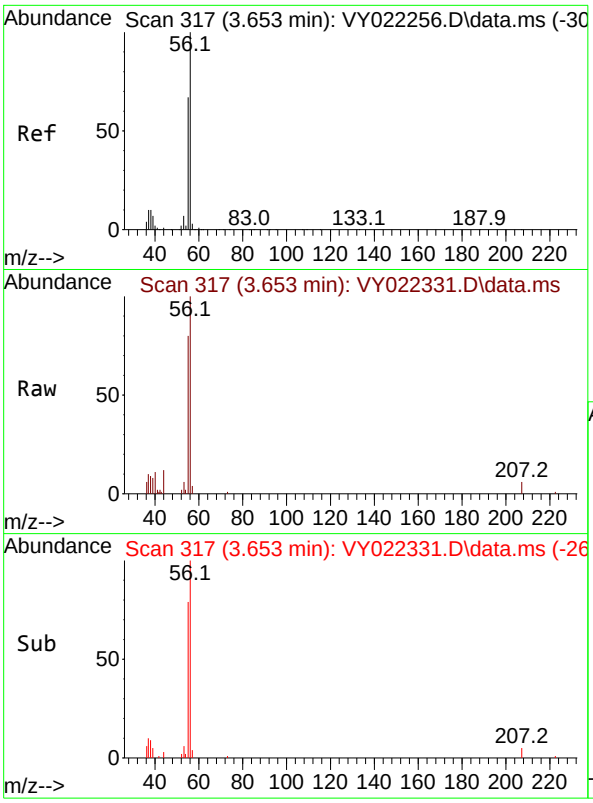




#12
1,1-Dichloroethene
Concen: 22.110 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 96 Resp: 38409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 169.2 | 134.9 | 202.3 |
| 98 | 63.7 | 49.9 | 74.9 |

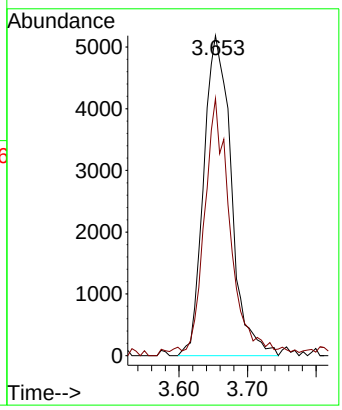





#13
Acrolein
Concen: 73.203 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 56 Resp: 1450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 76.2 | 55.6 | 83.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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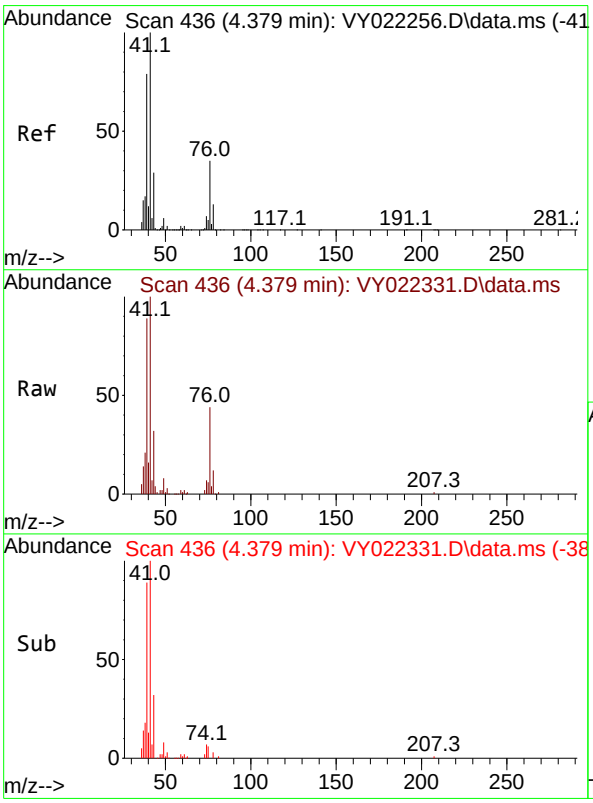
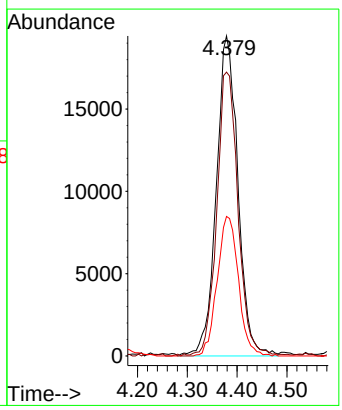
Supervised By :Semsettin Yesilyurt 05/21/2025

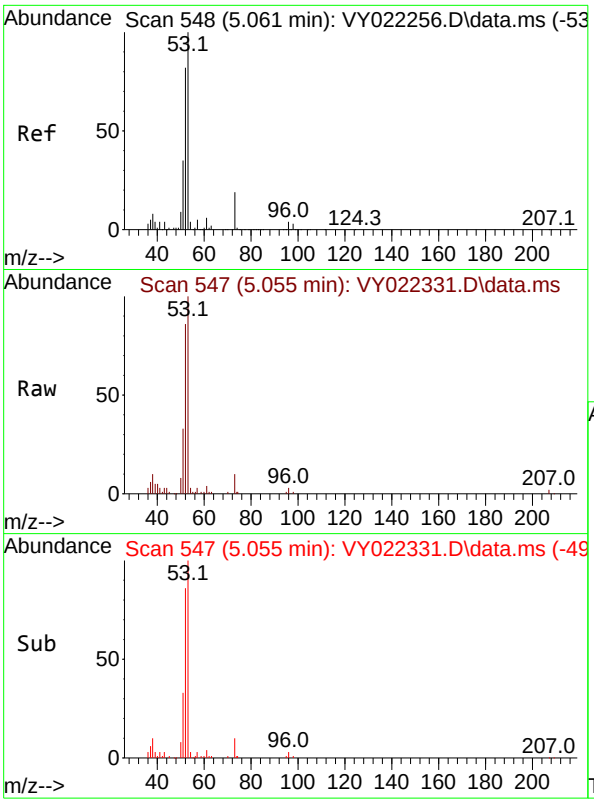



#14
Allyl chloride
Concen: 19.259 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 41 Resp: 58664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 87.2 | 63.4 | 95.0 |
| 76 | 42.8 | 29.5 | 44.3 |






#15
Acrylonitrile
Concen: 110.449 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 53 Resp: 4404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.6 | 66.1 | 99.1 |
| 51 | 39.2 | 30.0 | 45.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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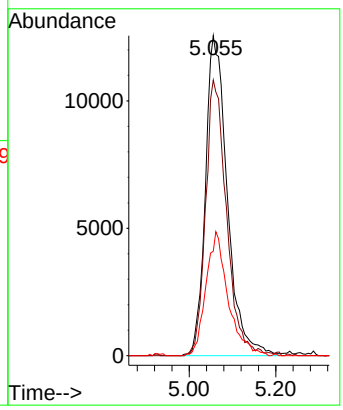
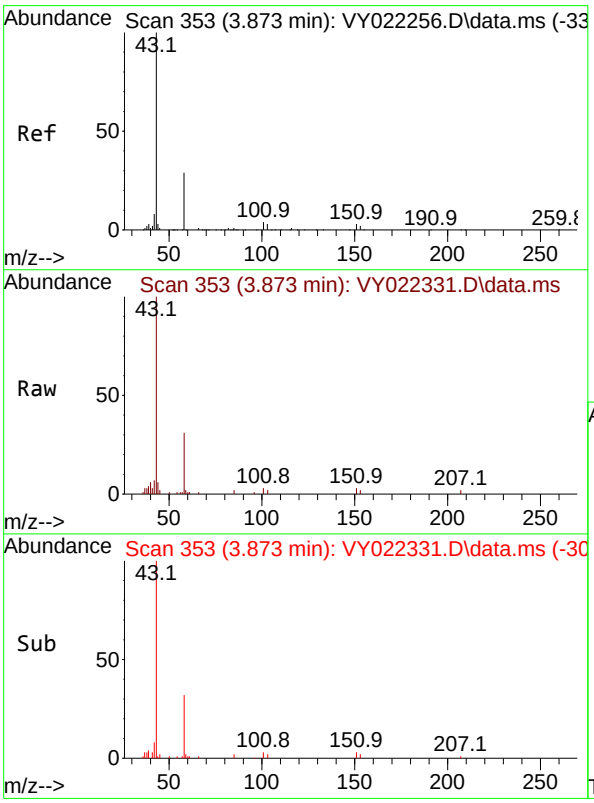
Supervised By :Semsettin Yesilyurt 05/21/2025

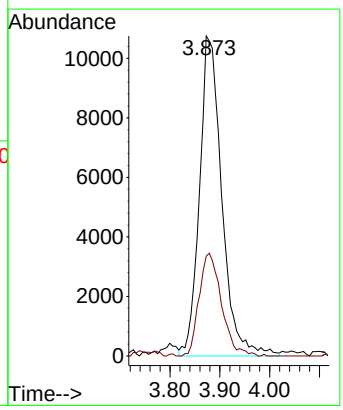


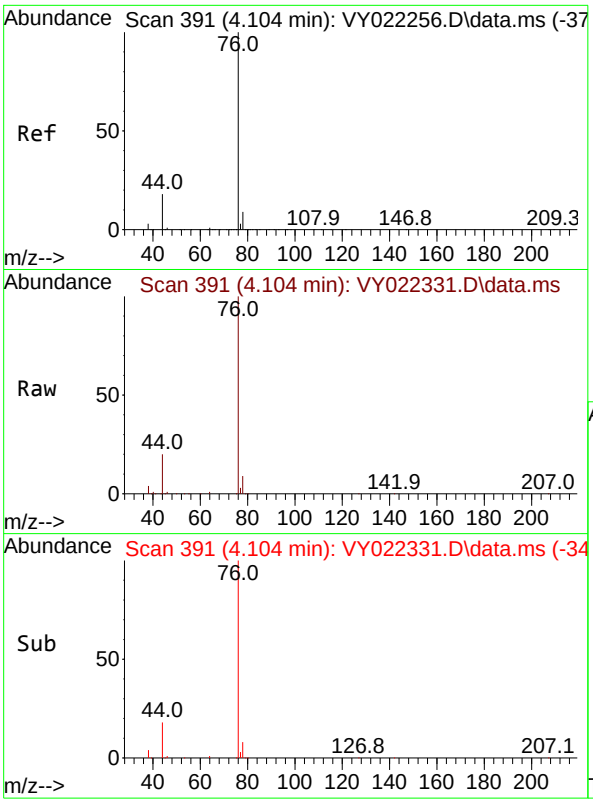




#16
Acetone
Concen: 100.481 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 43 Resp: 33441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.5 | 23.6 | 35.4 |

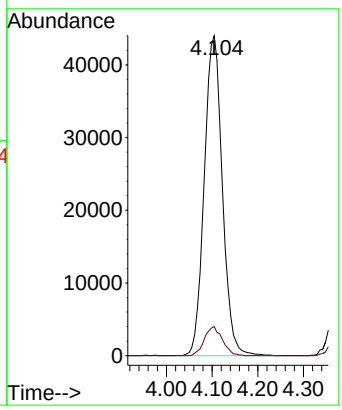





#17
Carbon Disulfide
Concen: 21.376 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 76 Resp: 12108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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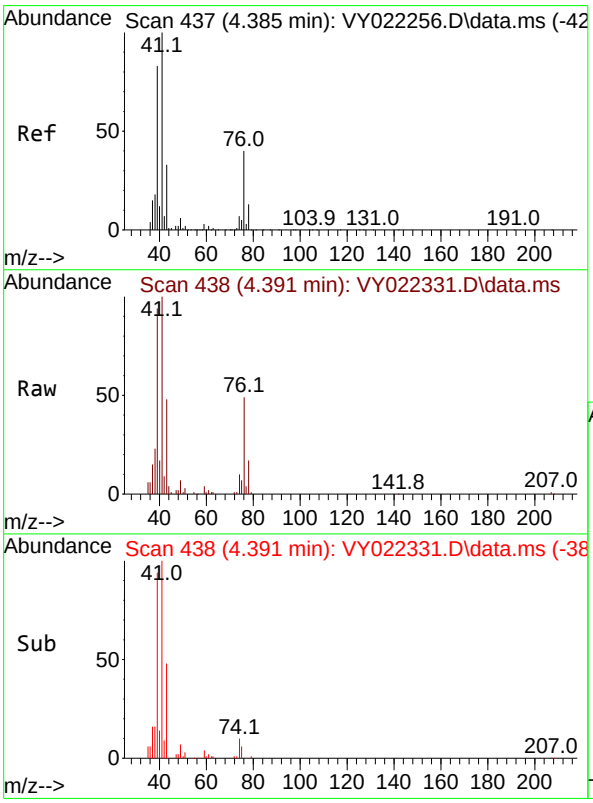
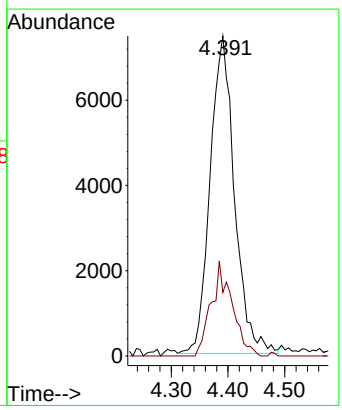
Supervised By :Semsettin Yesilyurt 05/21/2025

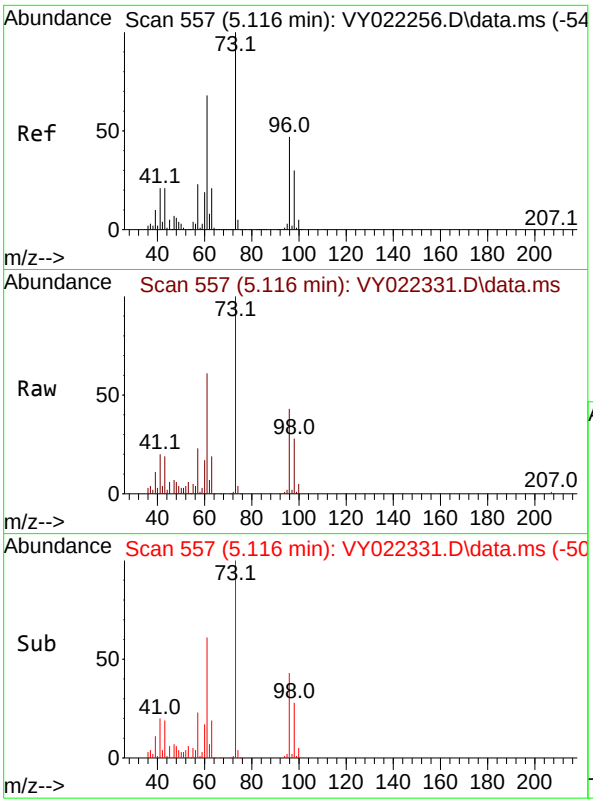



#18
Methyl Acetate
Concen: 21.176 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 43 Resp: 22221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.7 | 18.2 | 27.4 |

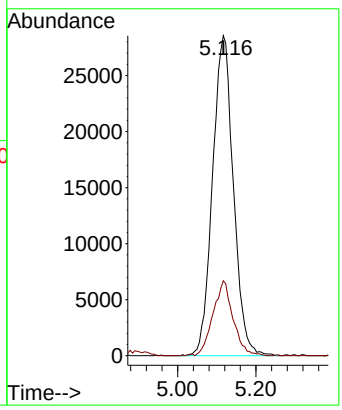





#19
Methyl tert-butyl Ether
Concen: 22.042 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 73 Resp: 10557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.4 | 18.6 | 28.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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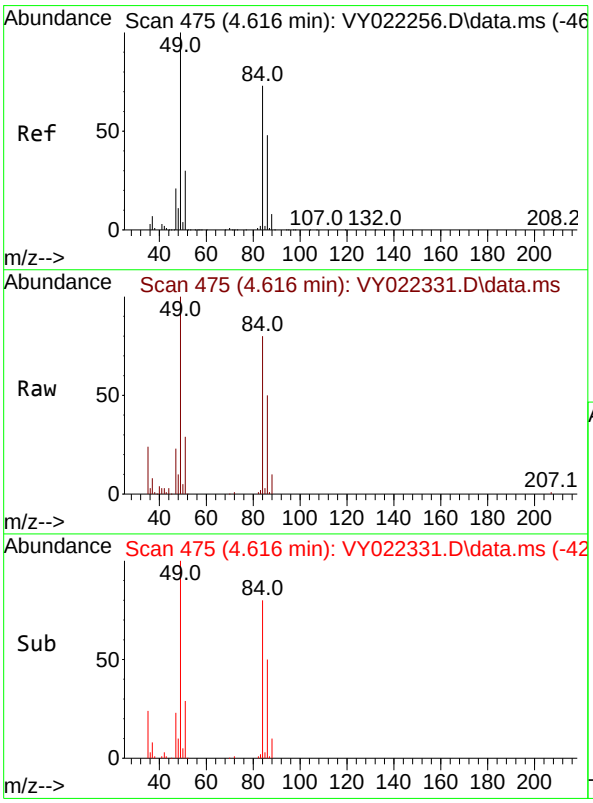
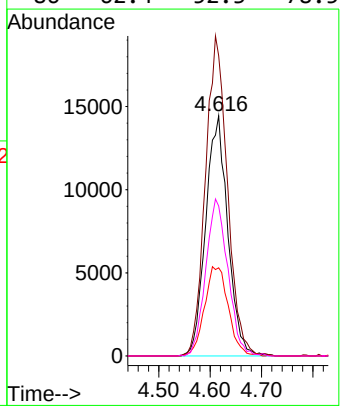
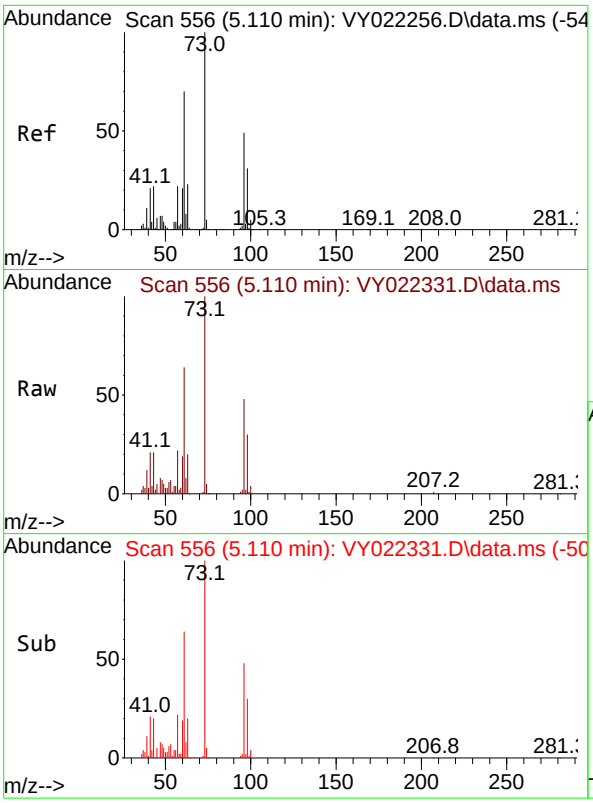



#20
Methylene Chloride
Concen: 20.069 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 84 Resp: 43159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 125.0 | 109.6 | 164.4 |
| 51 | 36.7 | 32.4 | 48.6 |
| 86 | 62.4 | 52.3 | 78.5 |






#21
trans-1,2-Dichloroethene
Concen: 21.557 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 96 Resp: 4133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 132.6 | 113.4 | 170.0 |
| 98 | 61.3 | 50.9 | 76.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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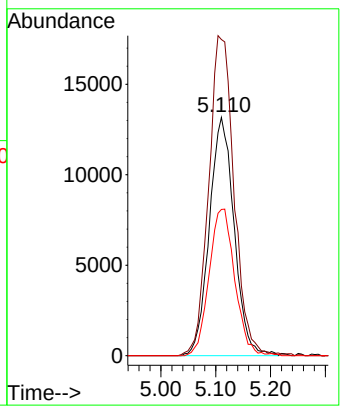
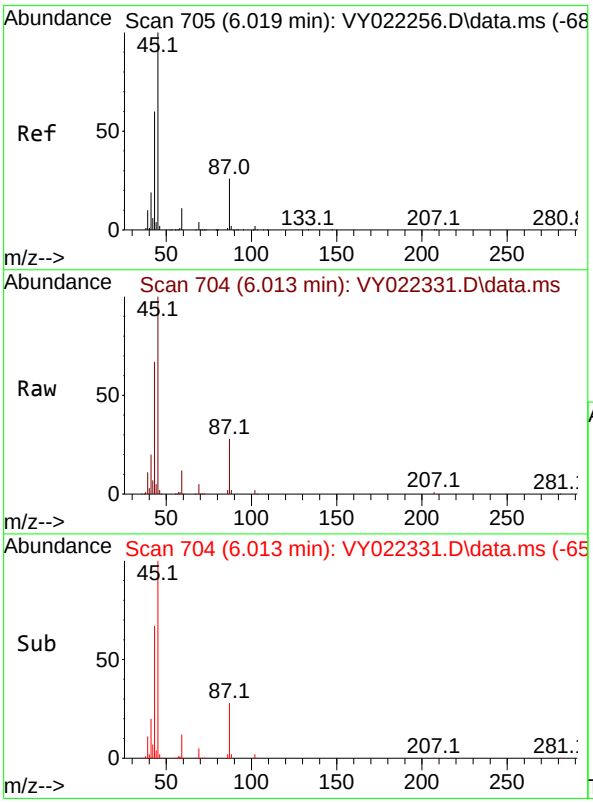
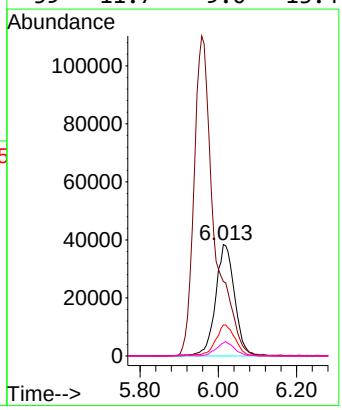


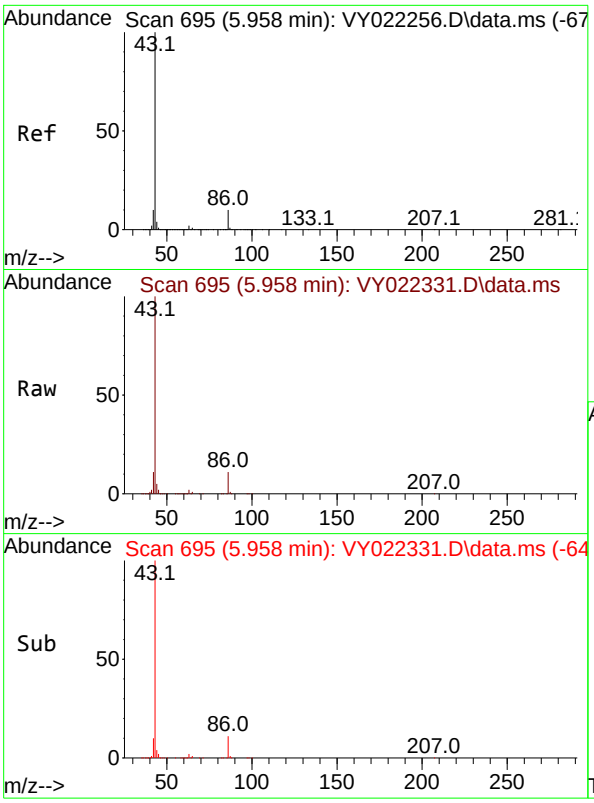




#22
Diisopropyl ether
Concen: 20.133 ug/l
RT: 6.013 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 45 Resp: 129506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 66.5 | 48.2 | 72.2 |
| 87 | 27.7 | 21.4 | 32.0 |
| 59 | 11.7 | 9.0 | 13.4 |






#23
Vinyl Acetate
Concen: 101.282 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 43 Resp: 39358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.0 | 7.8 | 11.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

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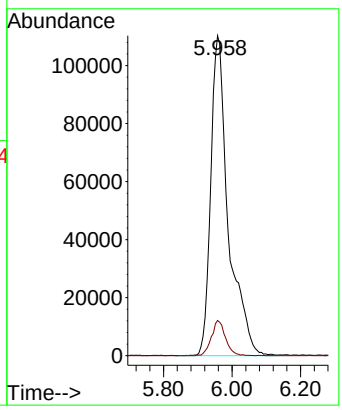
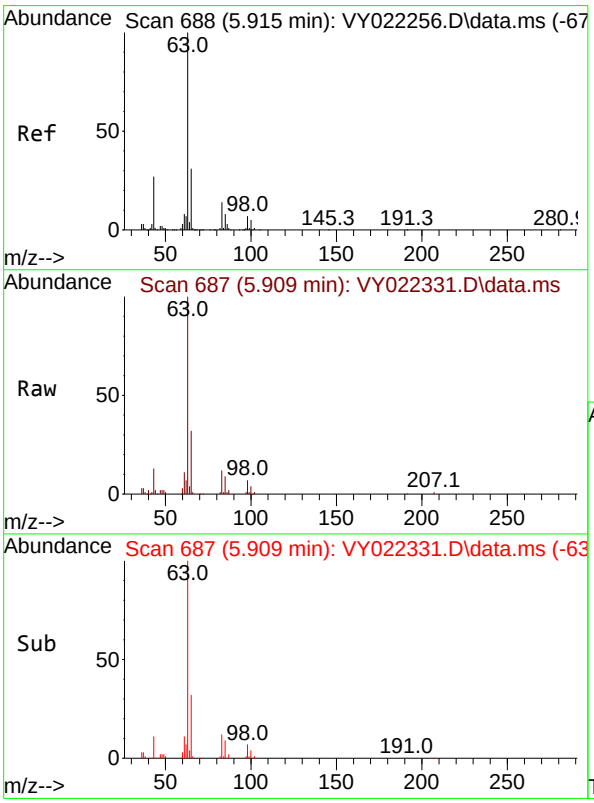
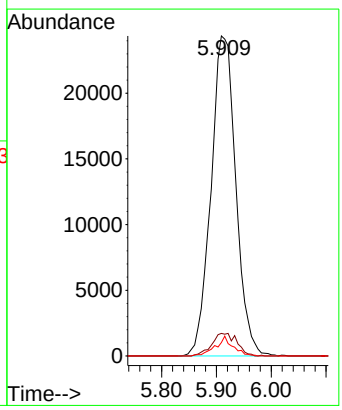


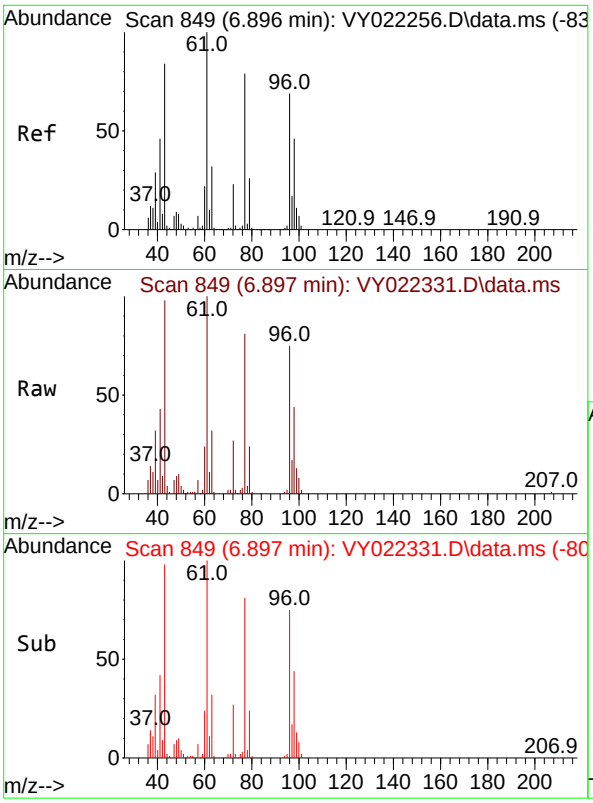




#24
1,1-Dichloroethane
Concen: 21.359 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 63 Resp: 76757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.0 | 3.5 | 10.5 |
| 100 | 4.2 | 2.4 | 7.2 |






#25
2-Butanone
Concen: 102.685 ug/l
RT: 6.897 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

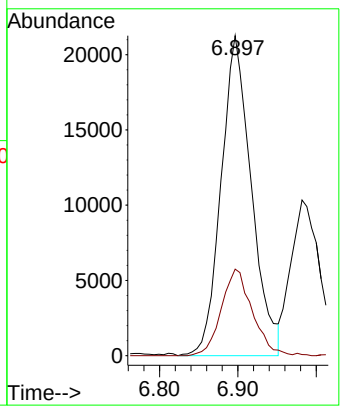
Tgt Ion: 43 Resp: 5716

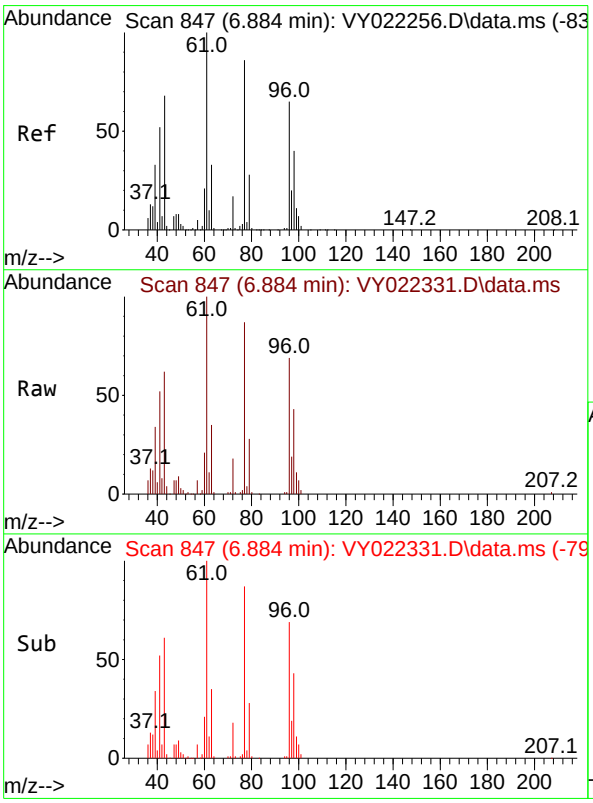
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.0 | 22.1 | 33.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

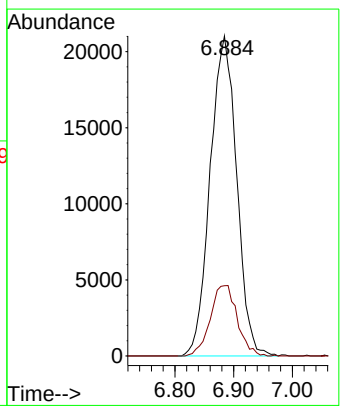


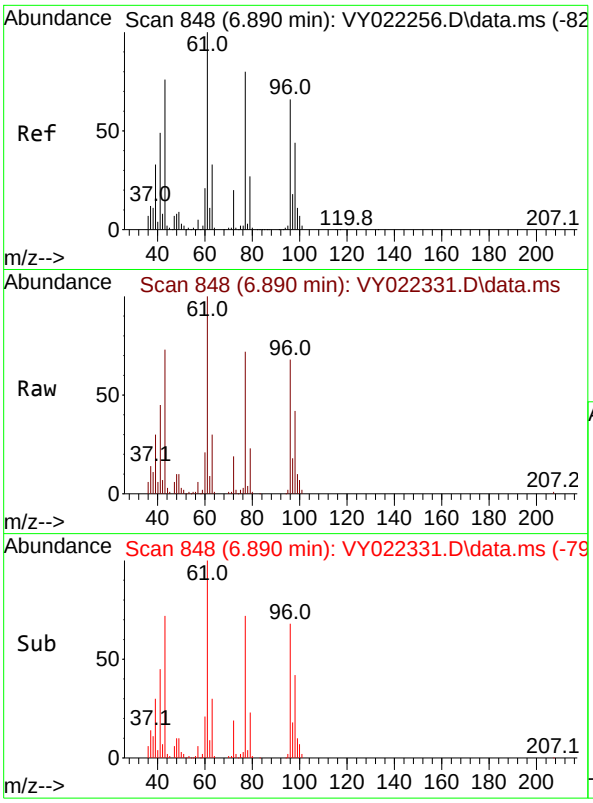




#26
2,2-Dichloropropane
Concen: 20.630 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 77 Resp: 65941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.3 | 11.2 | 33.5 |






#27
cis-1,2-Dichloroethene
Concen: 21.681 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 96 Resp: 4797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 149.4 | 0.0 | 302.6 |
| 98 | 62.6 | 0.0 | 128.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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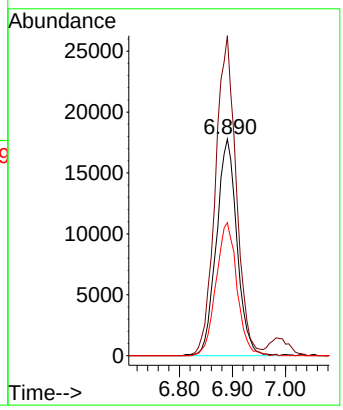
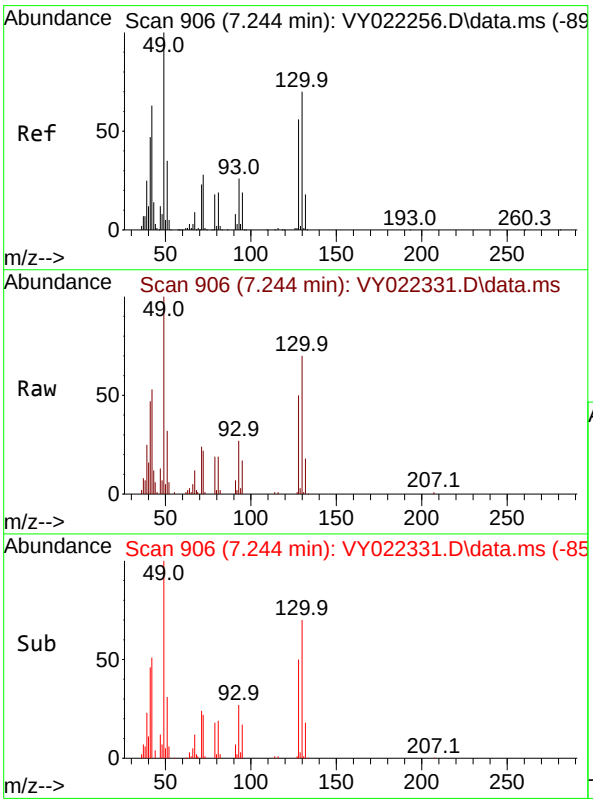
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

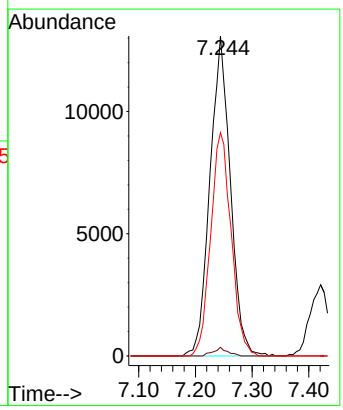


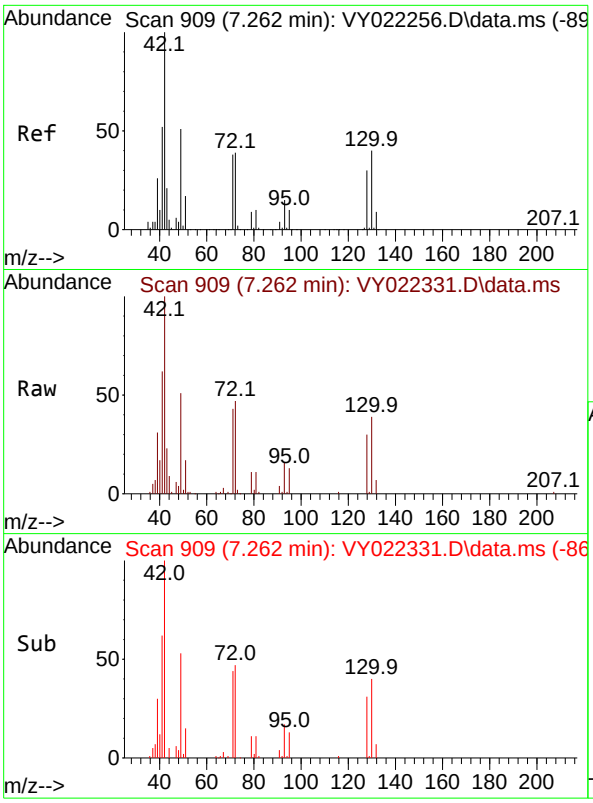




#28
Bromochloromethane
Concen: 21.346 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 49 Resp: 32721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 3.6 |
| 130 | 69.9 | 54.7 | 82.1 |

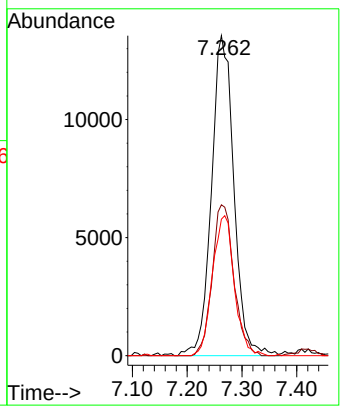





#29
Tetrahydrofuran
Concen: 107.516 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 42 Resp: 3850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 45.7 | 33.8 | 50.6 |
| 71 | 42.7 | 31.5 | 47.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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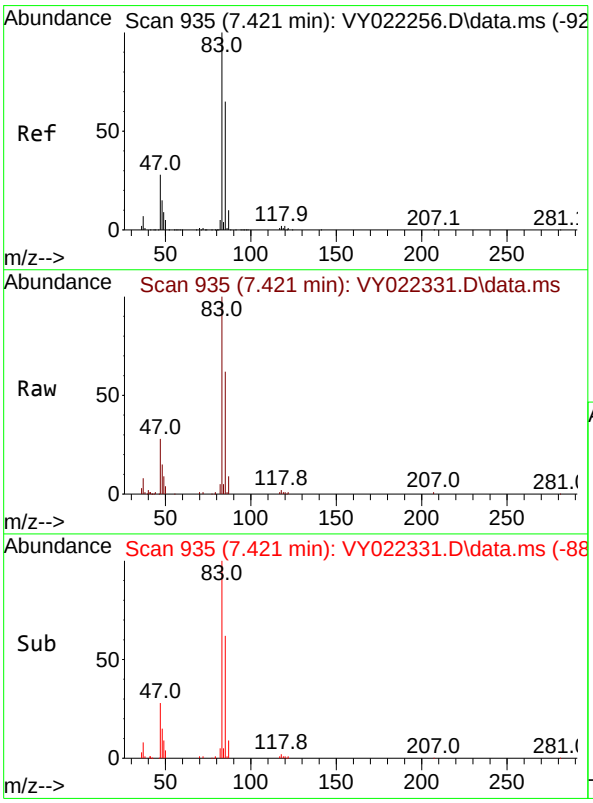
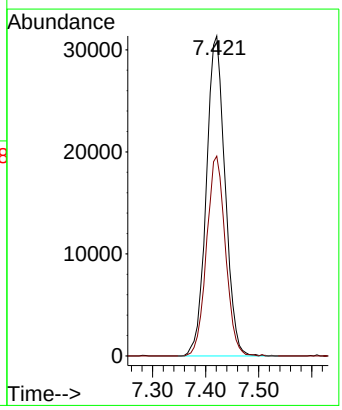
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

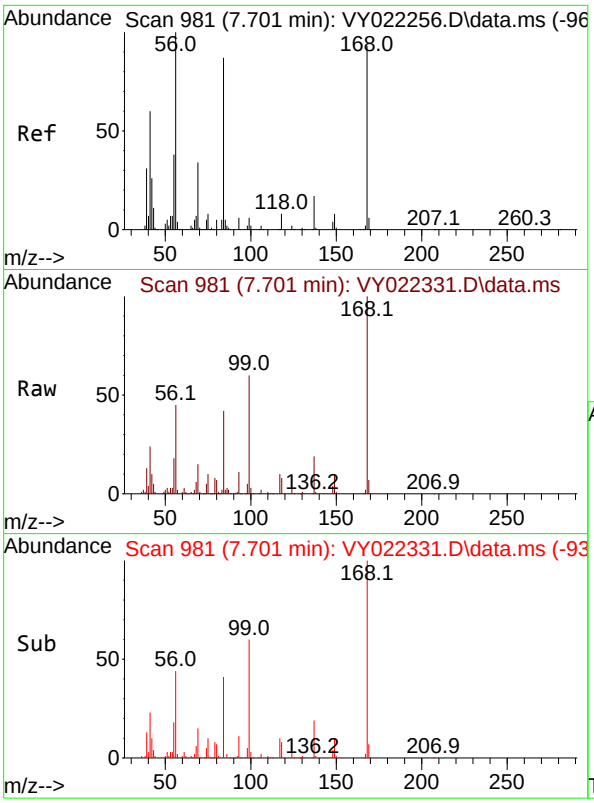



#30
Chloroform
Concen: 22.315 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 83 Resp: 76921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.4 | 51.8 | 77.8 |






#31
Cyclohexane
Concen: 20.618 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 56 Resp: 7403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.6 | 27.4 | 41.2 |
| 84 | 93.9 | 70.0 | 105.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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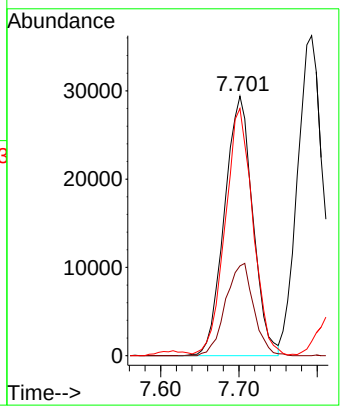
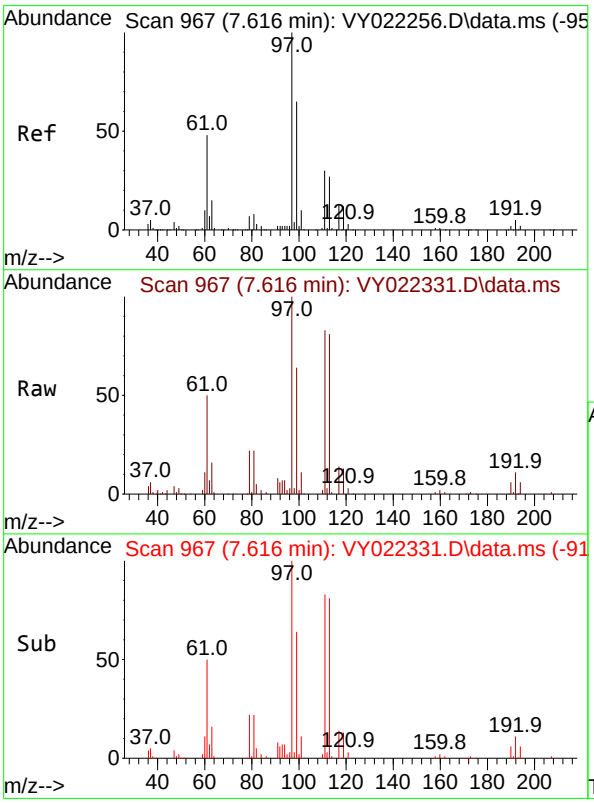
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

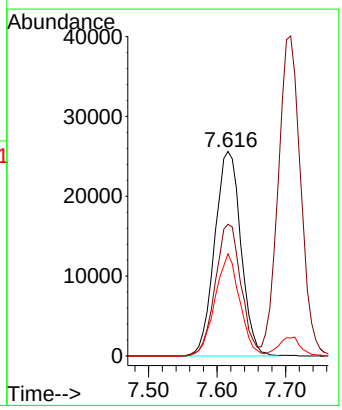


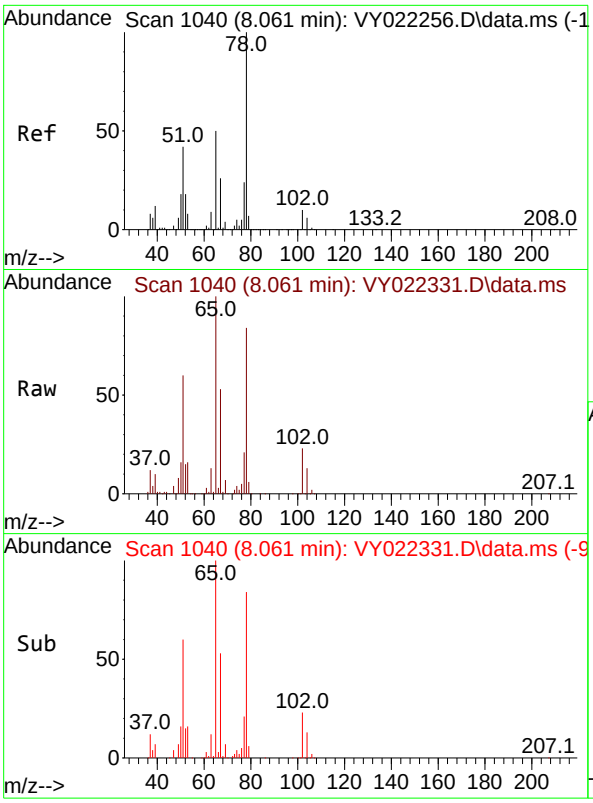




#32
1,1,1-Trichloroethane
Concen: 21.499 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 97 Resp: 67990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.2 | 51.4 | 77.0 |
| 61 | 47.1 | 38.1 | 57.1 |

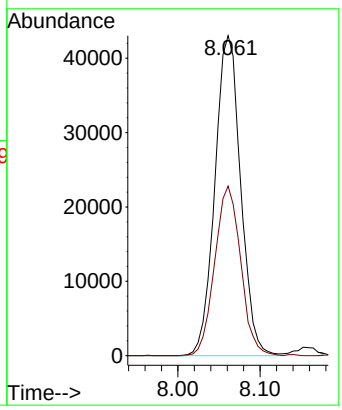





#33
1,2-Dichloroethane-d4
Concen: 52.798 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 65 Resp: 9371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.4 | 0.0 | 104.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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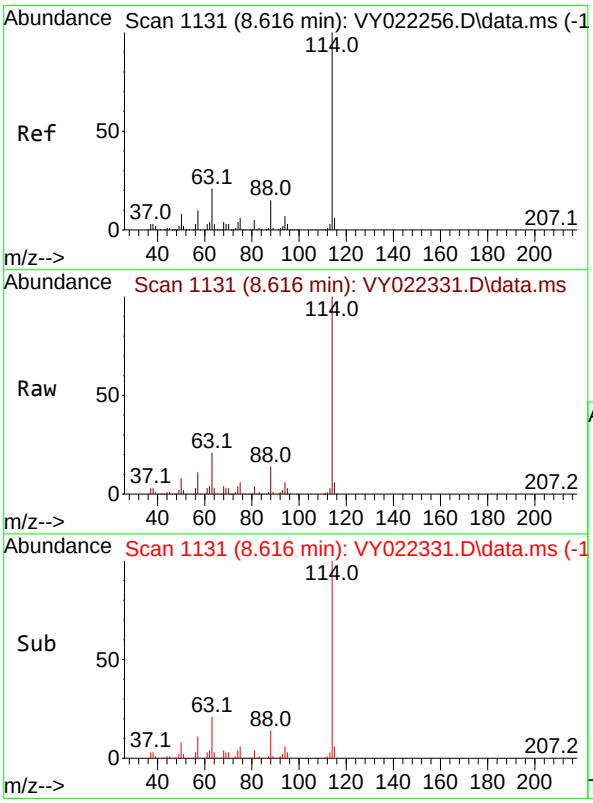
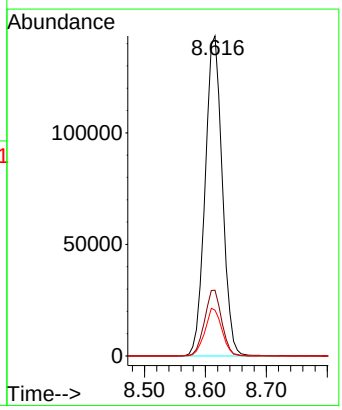
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

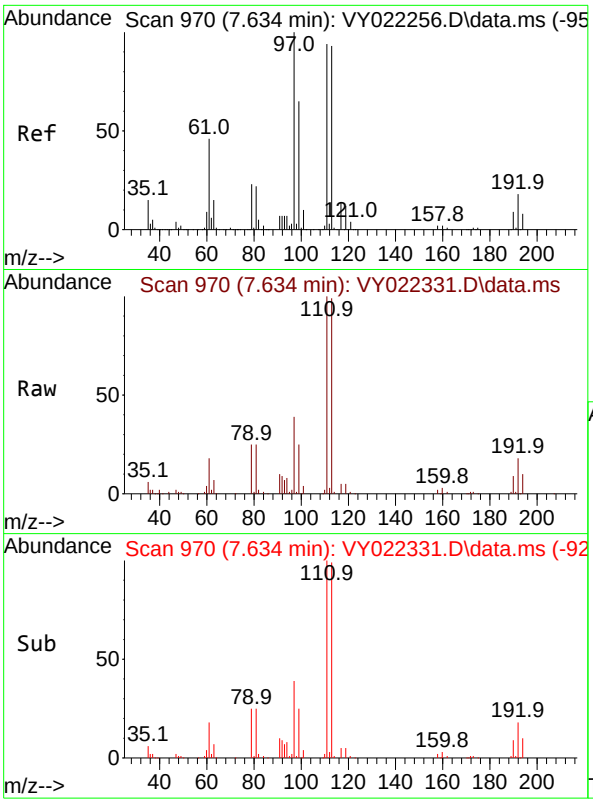



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:114 Resp: 280923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.5 | 0.0 | 41.0 |
| 88 | 14.3 | 0.0 | 29.4 |

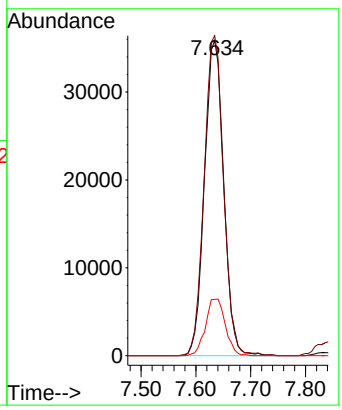





#35
Dibromofluoromethane
Concen: 52.042 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:113 Resp: 8725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.3 | 82.6 | 123.8 |
| 192 | 18.5 | 15.2 | 22.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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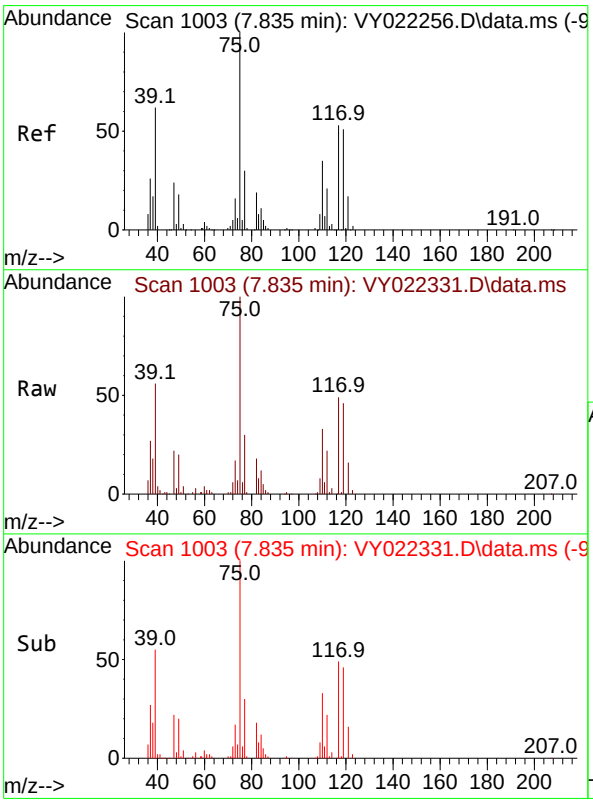
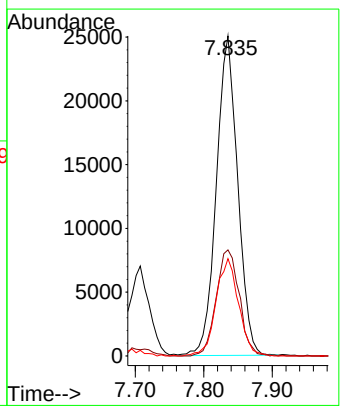
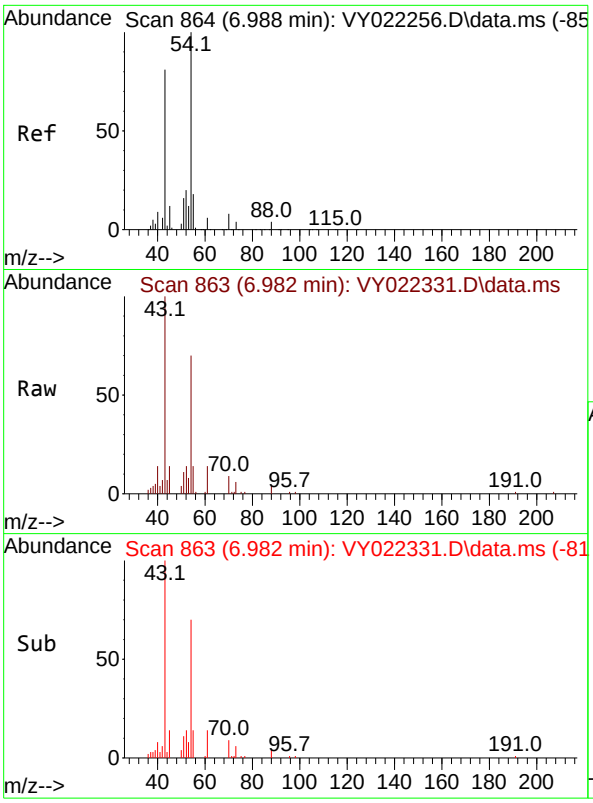



#36
1,1-Dichloropropene
Concen: 19.586 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 75 Resp: 54092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.9 | 16.6 | 49.8 |
| 77 | 32.3 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 20.496 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 43 Resp: 2723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.0 | 10.2 | 15.2 |
| 70 | 10.1 | 7.6 | 11.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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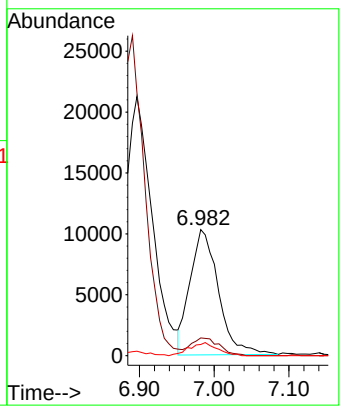
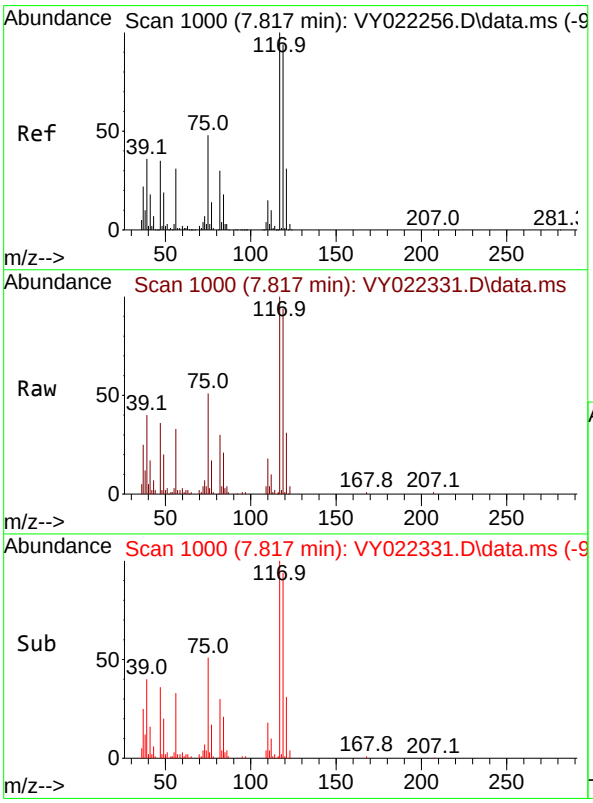
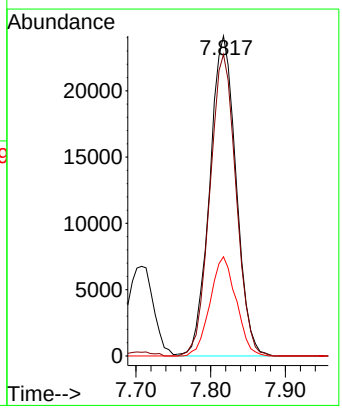


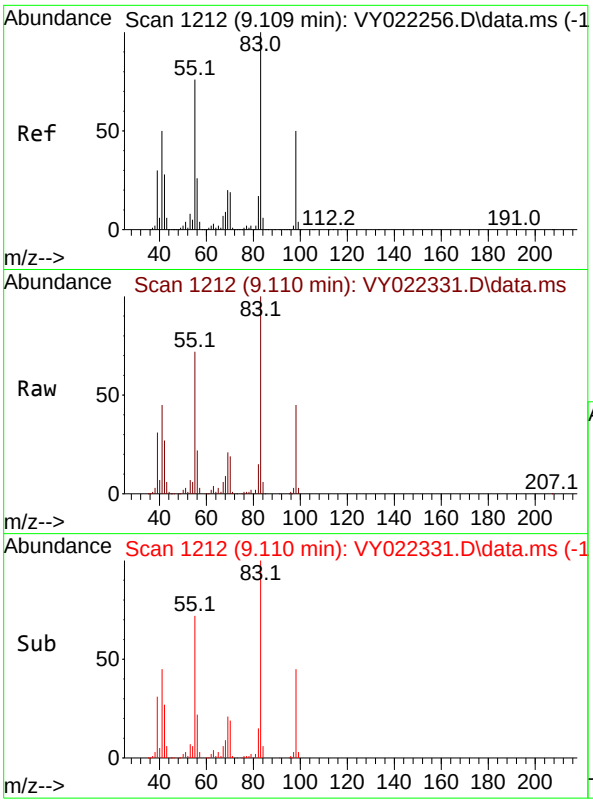




#38
Carbon Tetrachloride
Concen: 20.669 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:117 Resp: 59086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.3 | 75.3 | 112.9 |
| 121 | 31.0 | 24.7 | 37.1 |

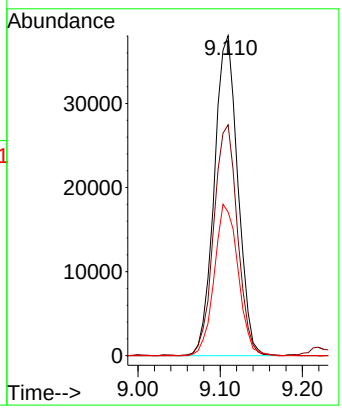





#39
Methylcyclohexane
Concen: 20.432 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 83 Resp: 7581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.1 | 60.6 | 90.8 |
| 98 | 44.9 | 40.0 | 60.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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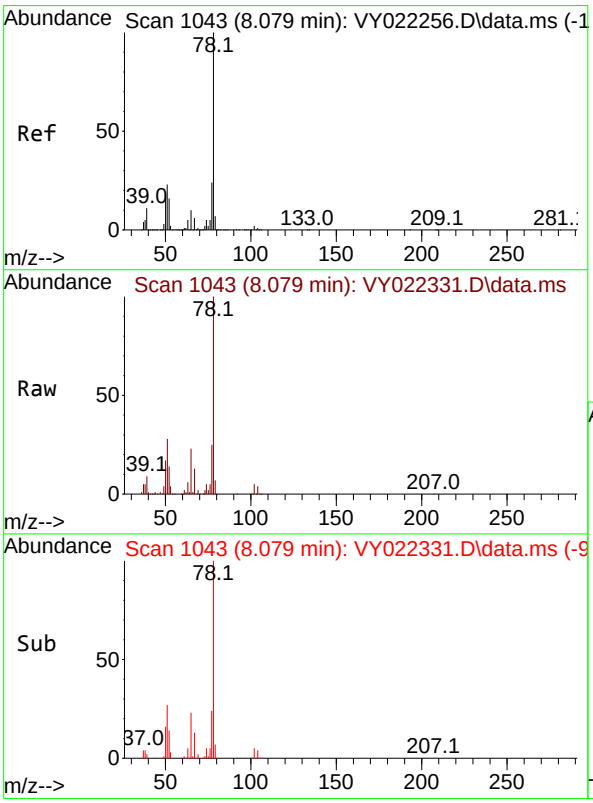
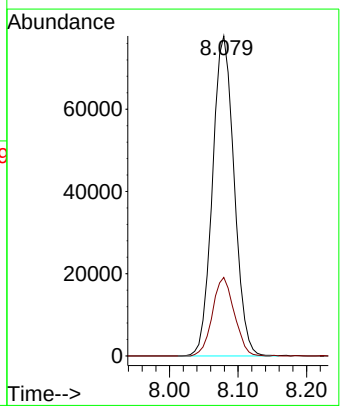
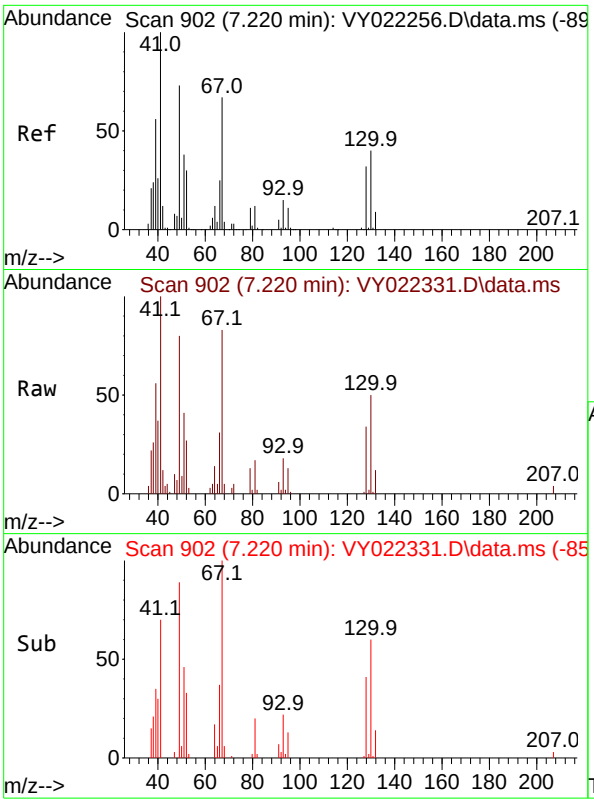



#40
Benzene
Concen: 20.845 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 78 Resp: 170661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.6 | 18.9 | 28.3 |

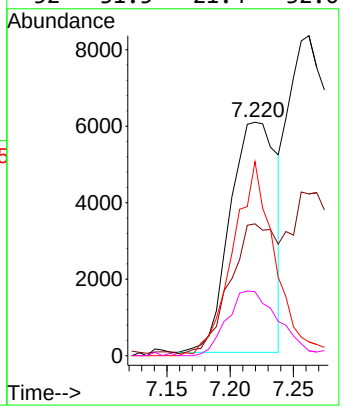





#41
Methacrylonitrile
Concen: 17.453 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 41 Resp: 1538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 56.5 | 39.1 | 58.7 |
| 67 | 76.9 | 47.1 | 70.7 |
| 52 | 31.5 | 21.4 | 32.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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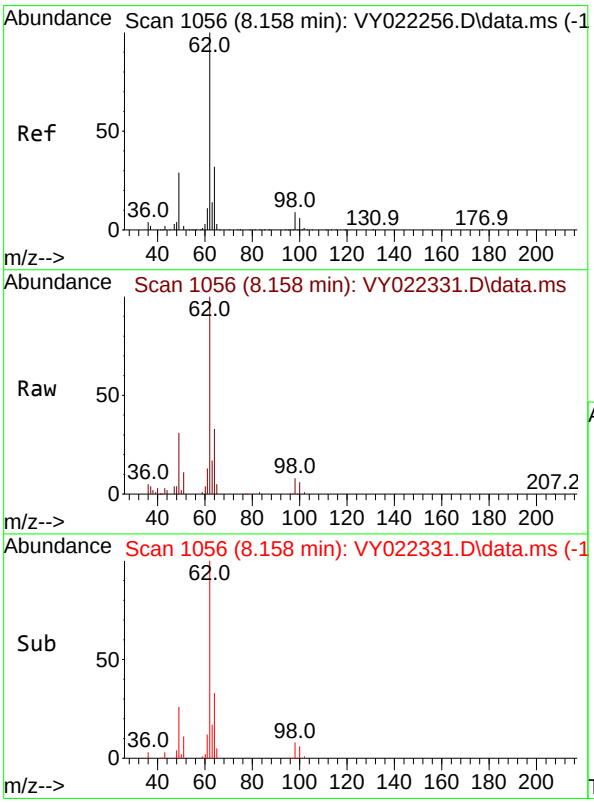
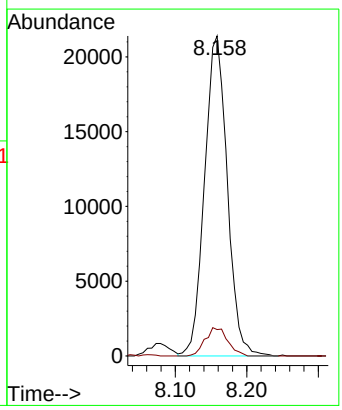
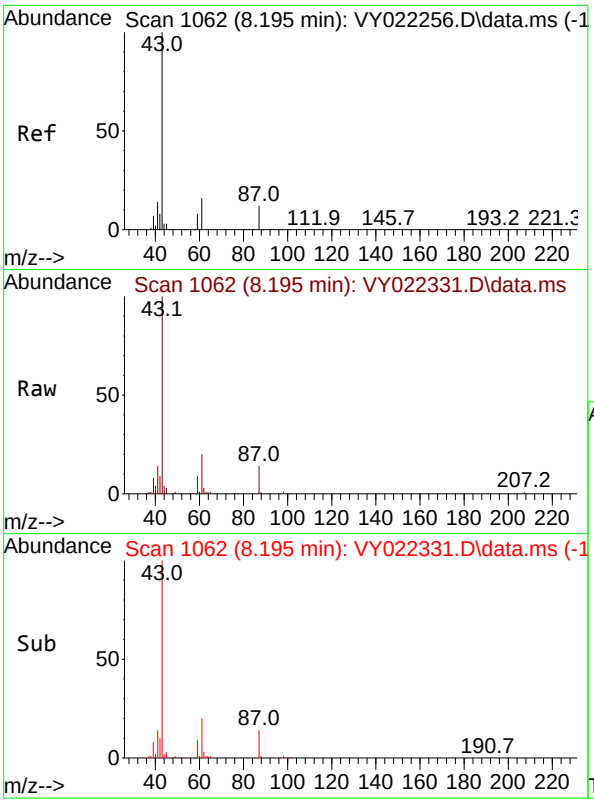



#42
1,2-Dichloroethane
Concen: 21.323 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 62 Resp: 47209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.8 | 0.0 | 18.4 |

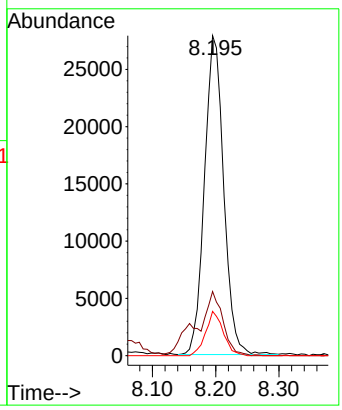





#43
Isopropyl Acetate
Concen: 20.290 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 43 Resp: 5879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 17.5 | 15.1 | 22.7 |
| 87 | 12.8 | 9.7 | 14.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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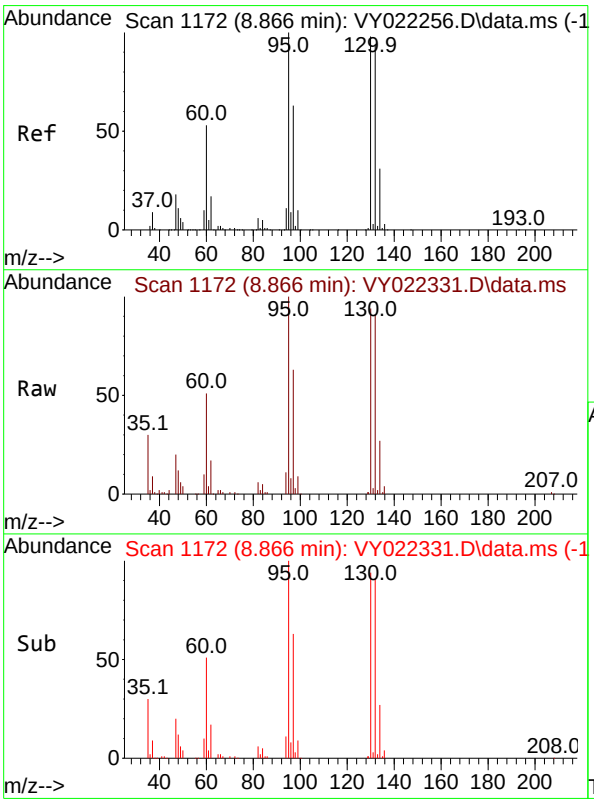
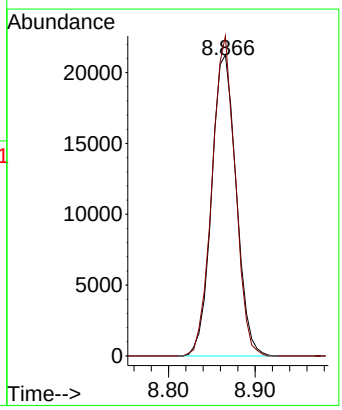
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

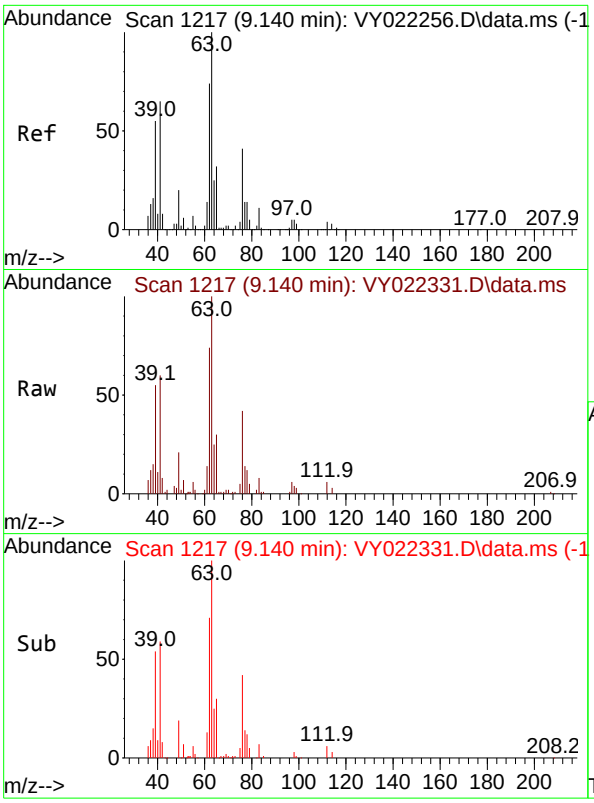



#44
Trichloroethene
Concen: 20.573 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:130 Resp: 41880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 106.3 | 0.0 | 204.8 |

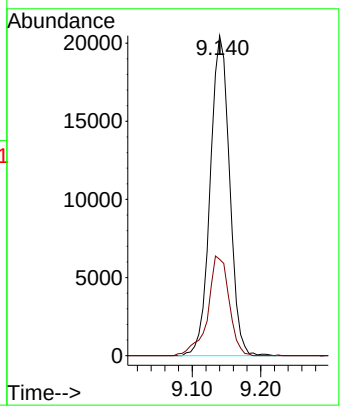





#45
1,2-Dichloropropane
Concen: 20.374 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 63 Resp: 4021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.8 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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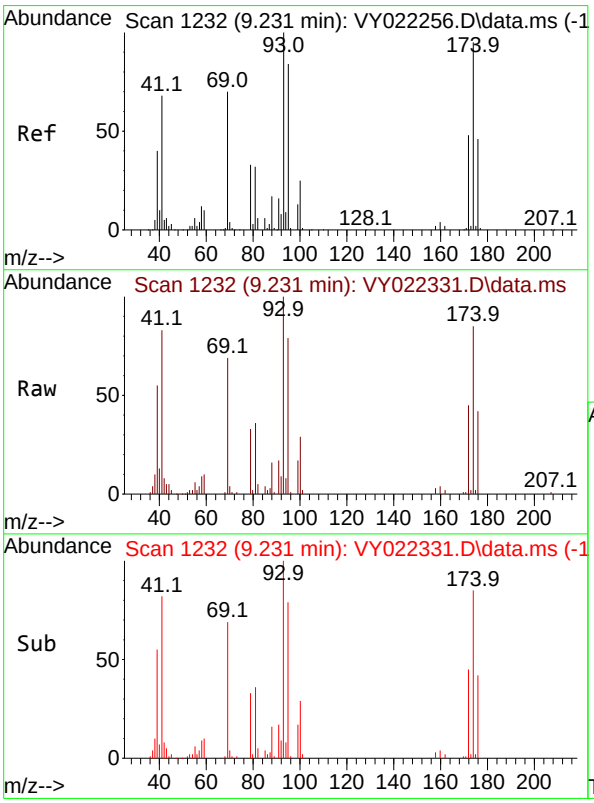
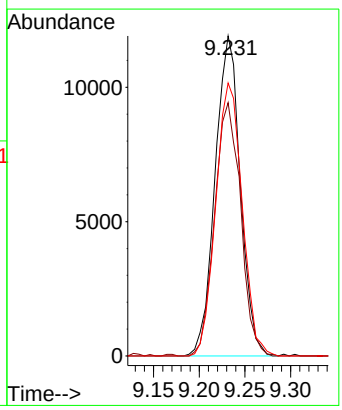
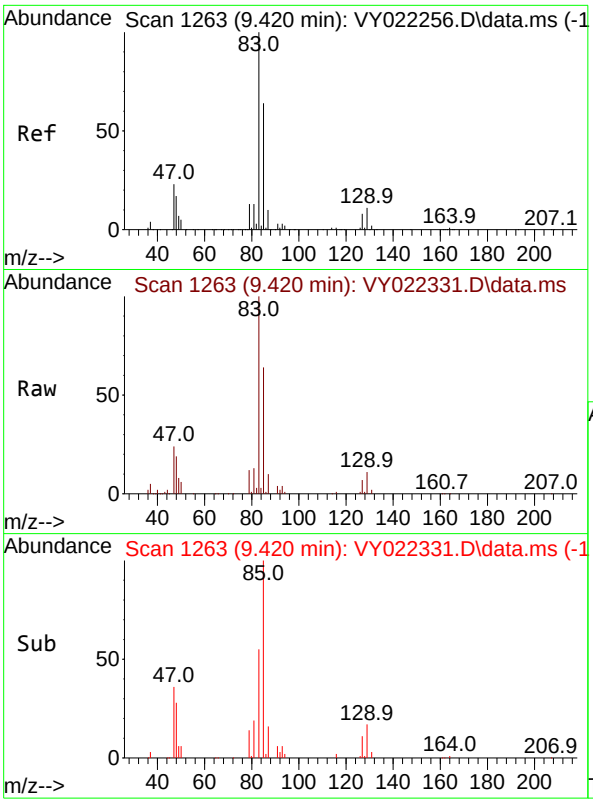



#46
Dibromomethane
Concen: 21.490 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 93 Resp: 22879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.4 | 65.2 | 97.8 |
| 174 | 89.3 | 74.3 | 111.5 |

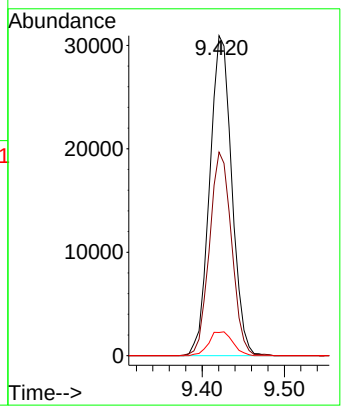





#47
Bromodichloromethane
Concen: 20.869 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 83 Resp: 5763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.6 | 51.1 | 76.7 |
| 127 | 7.2 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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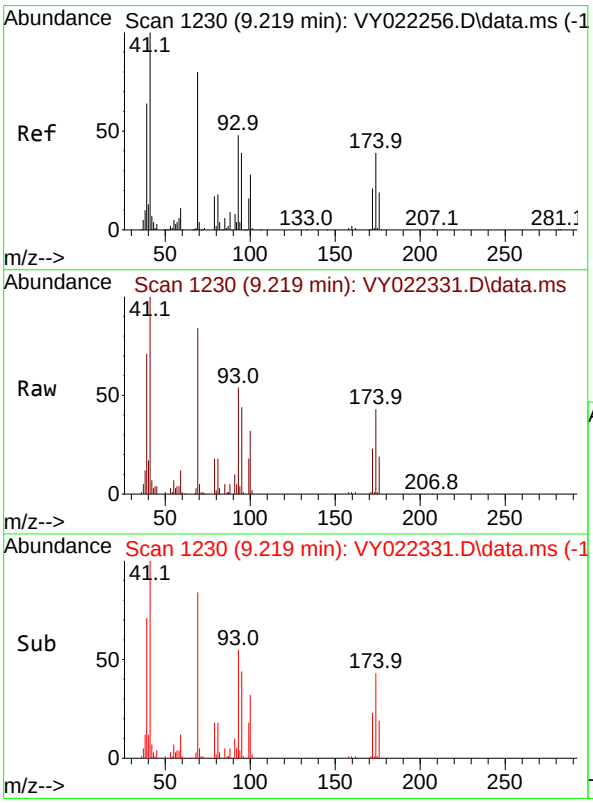
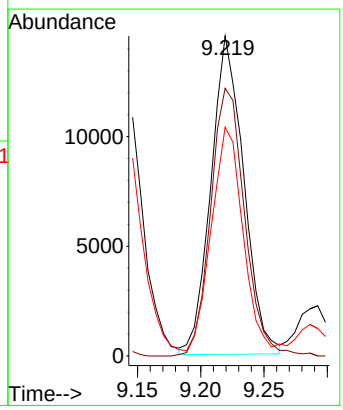
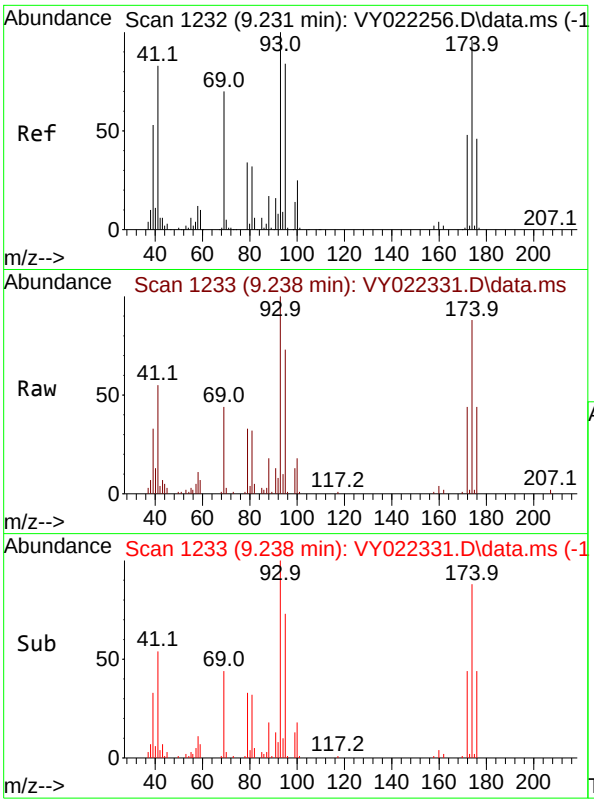



#48
Methyl methacrylate
Concen: 19.286 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 41 Resp: 26138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 87.1 | 63.5 | 95.3 |
| 39 | 68.2 | 50.8 | 76.2 |

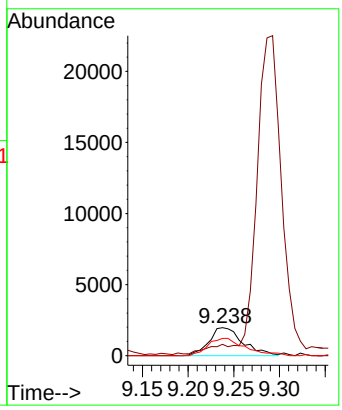





#49
1,4-Dioxane
Concen: 422.215 ug/l
RT: 9.238 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 88 Resp: 507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 26.4 | 28.5 | 42.7 |
| 58 | 68.2 | 61.4 | 92.2 |




**Instrument :**
MSVOA_Y
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VY0520SBS01

**Manual Integrations**
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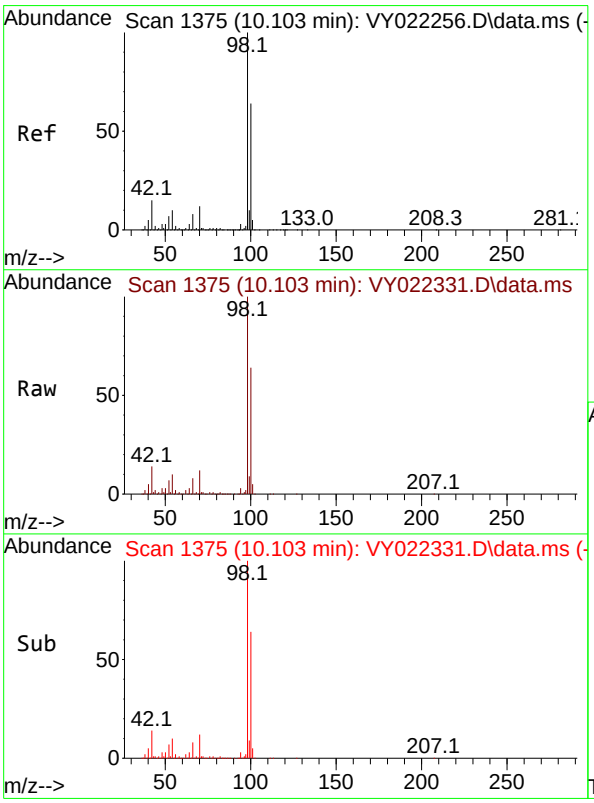
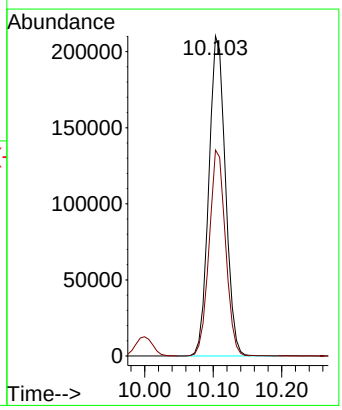
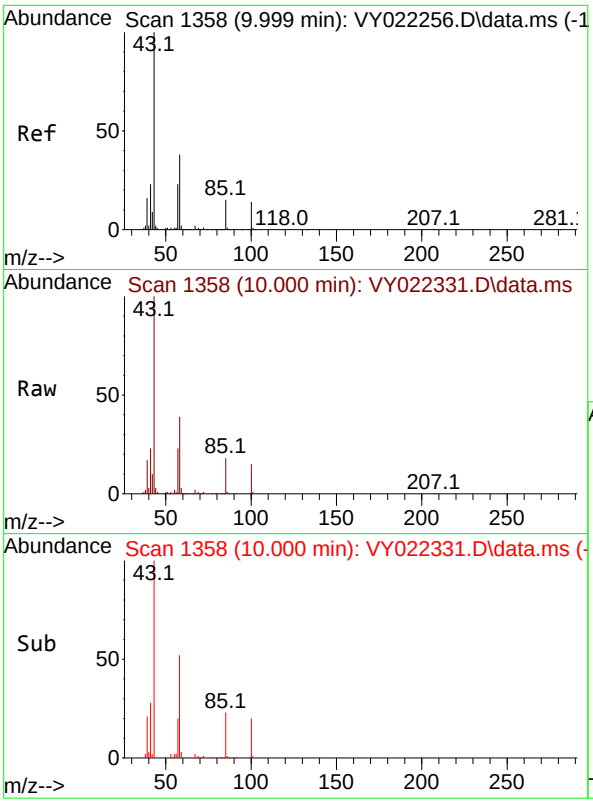



#50
Toluene-d8
Concen: 51.531 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 98 Resp: 353867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.7 | 51.8 | 77.8 |

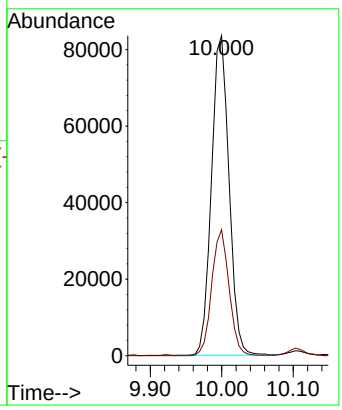





#51
4-Methyl-2-Pentanone
Concen: 100.263 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 43 Resp: 14257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.8 | 29.4 | 44.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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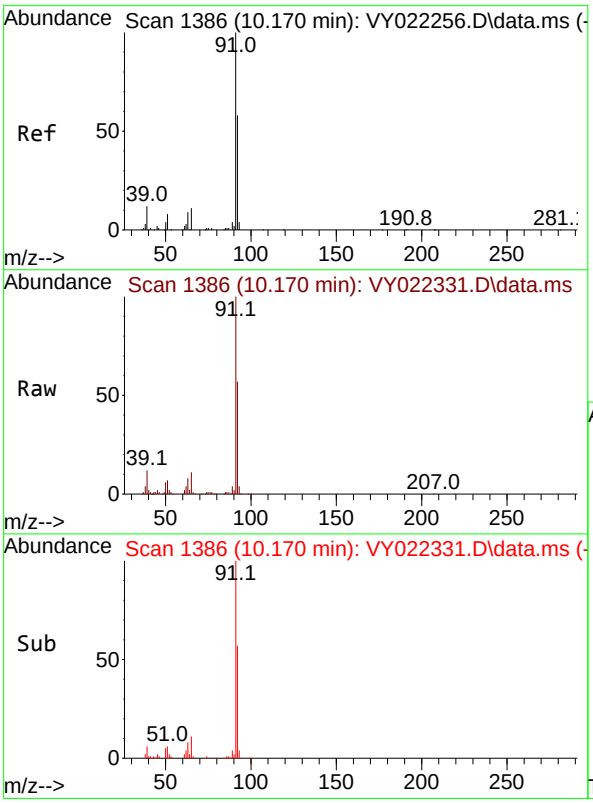
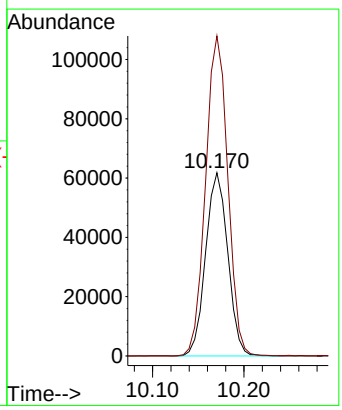
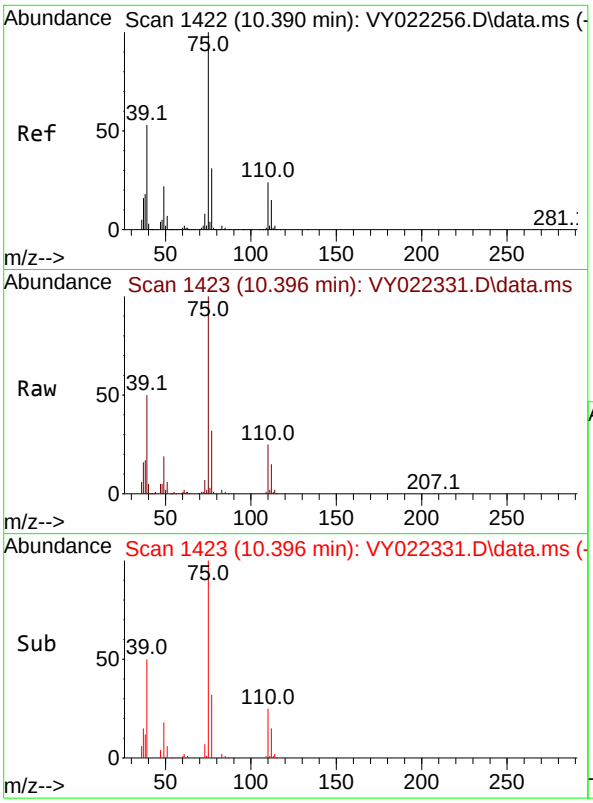



#52
Toluene
Concen: 20.038 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 92 Resp: 103885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 175.3 | 139.1 | 208.7 |

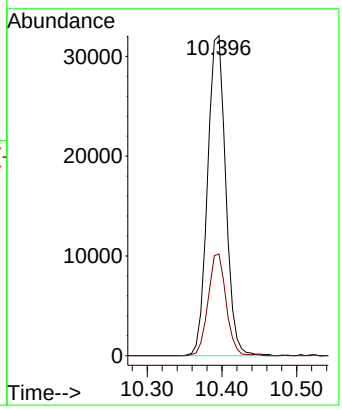





#53
t-1,3-Dichloropropene
Concen: 20.090 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 75 Resp: 5415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
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VY0520SBS01

**Manual Integrations**
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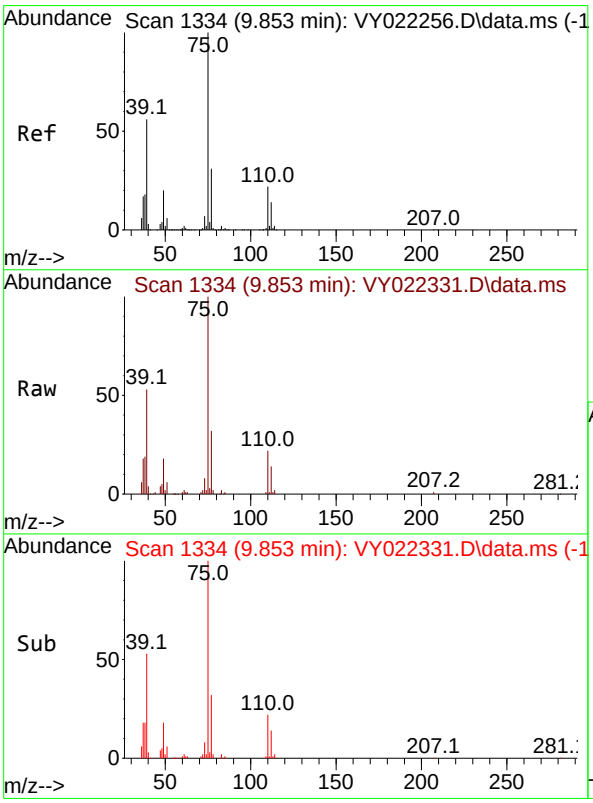
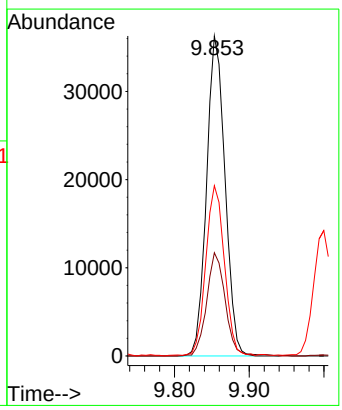
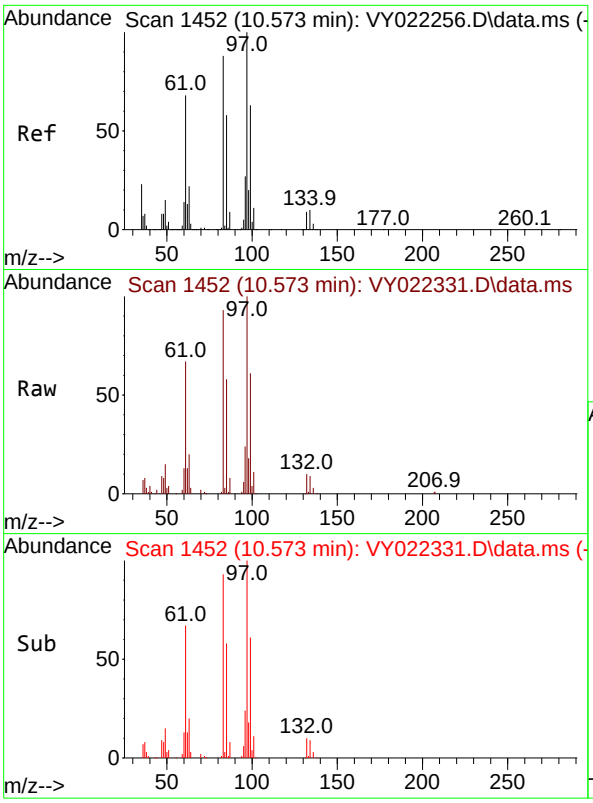



#54
cis-1,3-Dichloropropene
Concen: 20.174 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 75 Resp: 62298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.2 | 25.1 | 37.7 |
| 39 | 52.9 | 44.5 | 66.7 |

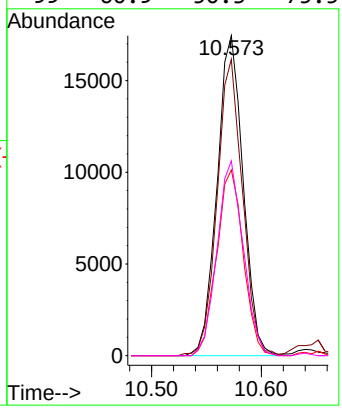





#55
1,1,2-Trichloroethane
Concen: 21.126 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 97 Resp: 2880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 92.6 | 70.3 | 105.5 |
| 85 | 58.0 | 46.2 | 69.4 |
| 99 | 60.9 | 50.3 | 75.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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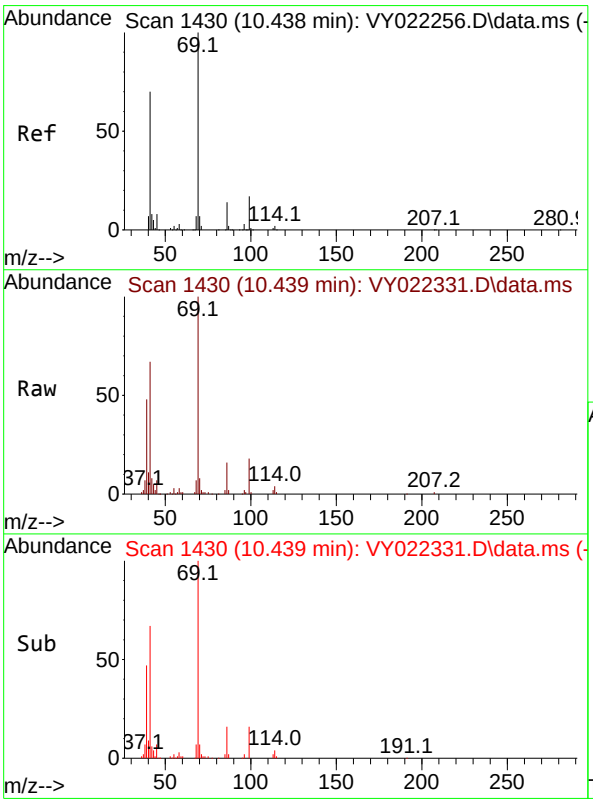
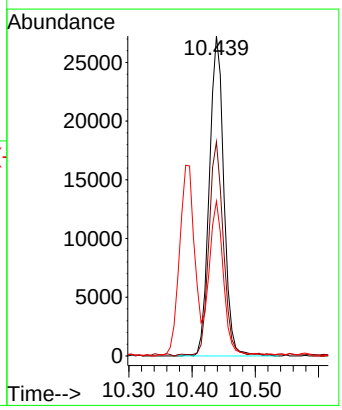
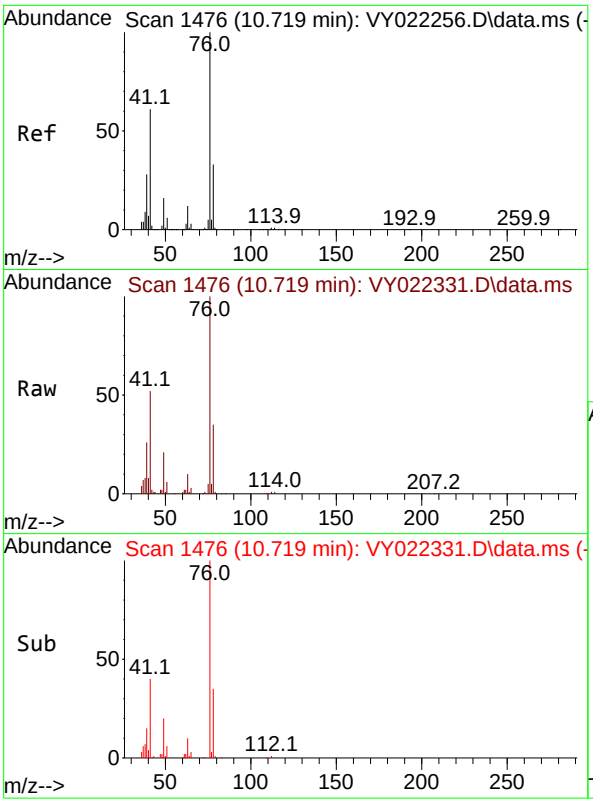



#56
Ethyl methacrylate
Concen: 20.452 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 69 Resp: 43432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 65.1 | 56.5 | 84.7 |
| 39 | 46.1 | 37.1 | 55.7 |

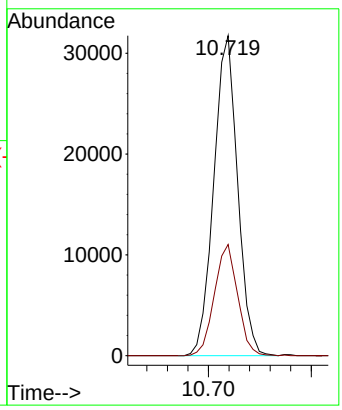





#57
1,3-Dichloropropane
Concen: 21.060 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 76 Resp: 5101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.9 | 25.8 | 38.8 |




**Instrument :**
MSVOA_Y
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VY0520SBS01

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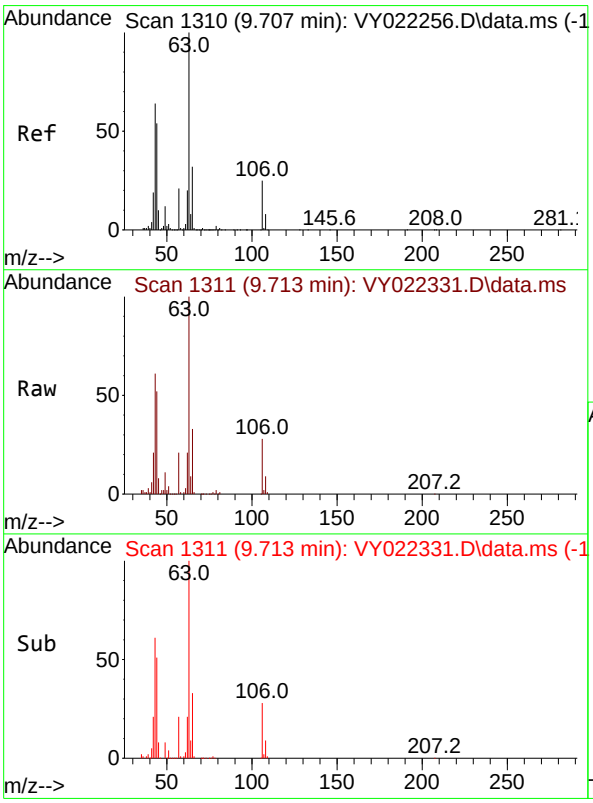
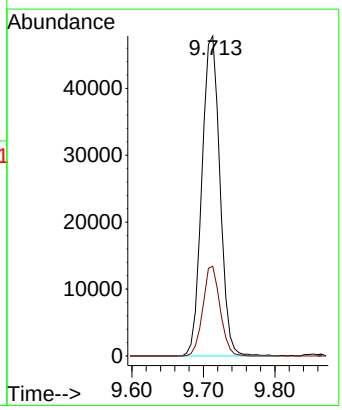
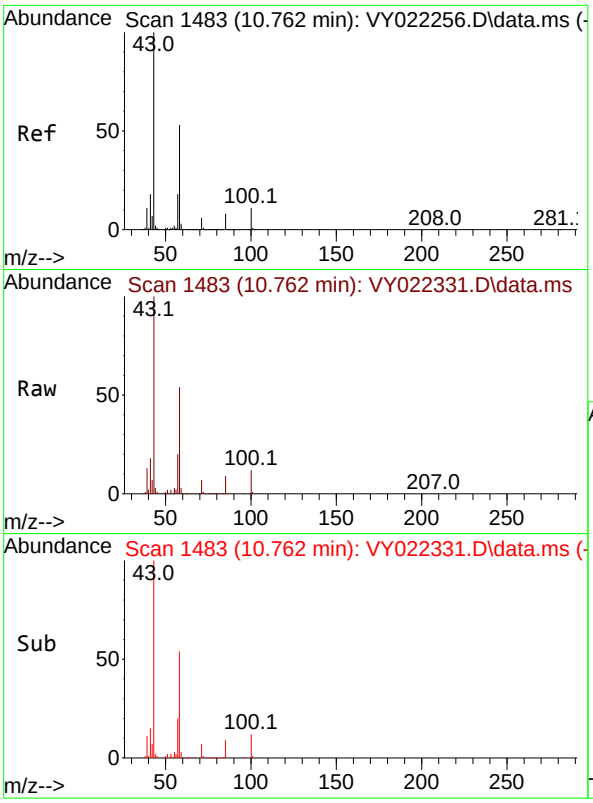



#58
2-Chloroethyl Vinyl ether
Concen: 87.855 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 63 Resp: 83740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.8 | 21.0 | 31.4 |






#59
2-Hexanone
Concen: 97.733 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 43 Resp: 9317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.0 | 26.1 | 78.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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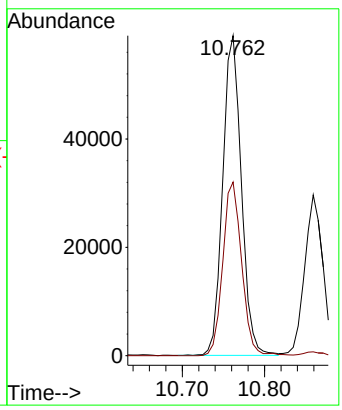
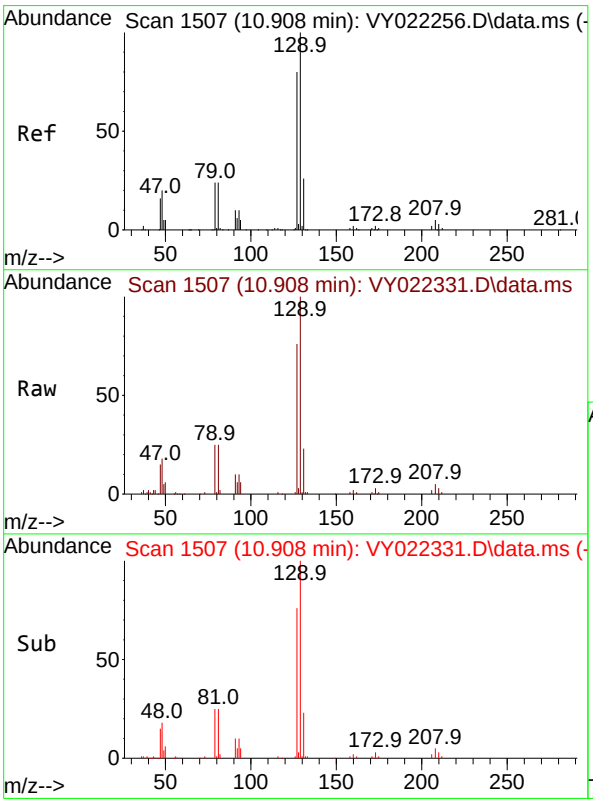
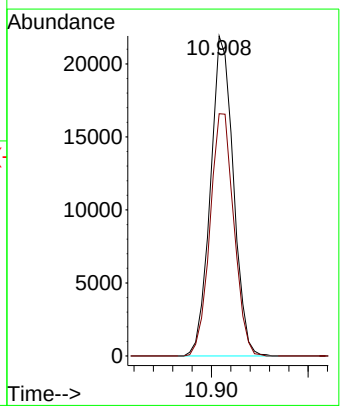


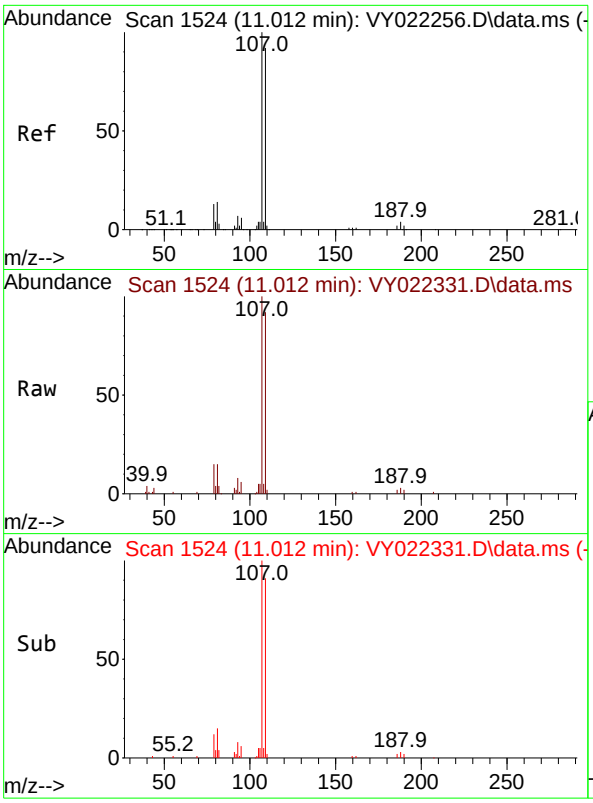




#60
Dibromochloromethane
Concen: 20.369 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:129 Resp: 36043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.7 | 38.6 | 115.7 |

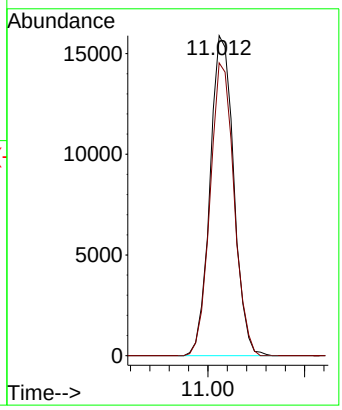





#61
1,2-Dibromoethane
Concen: 21.277 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:107 Resp: 2703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.1 | 74.6 | 111.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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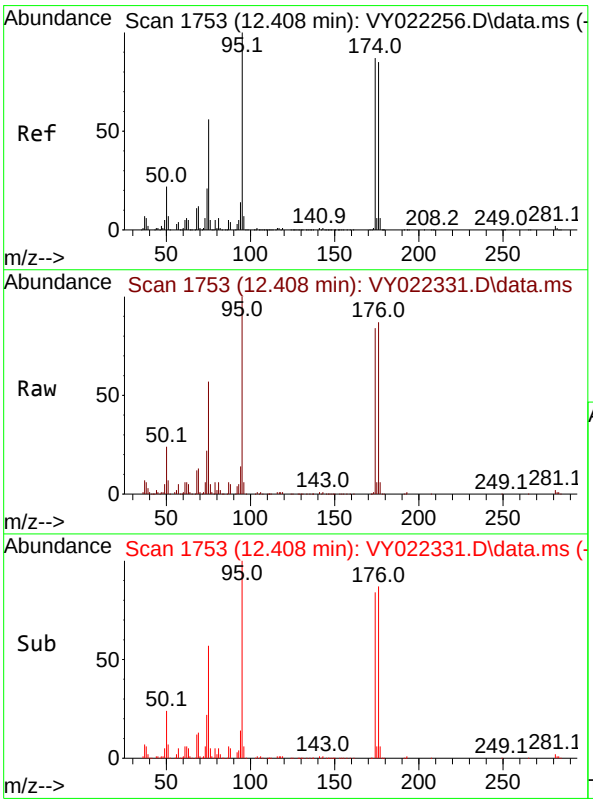
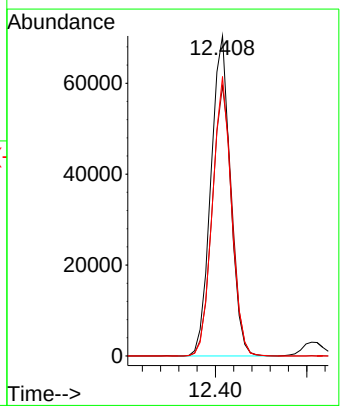
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

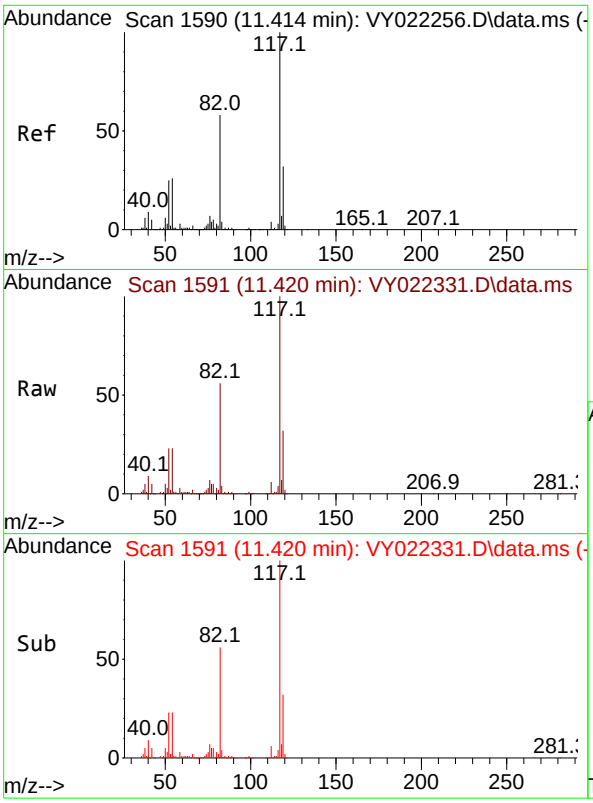



#62
4-Bromofluorobenzene
Concen: 47.707 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 95 Resp: 103841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.0 | 0.0 | 166.8 |
| 176 | 85.4 | 0.0 | 160.8 |

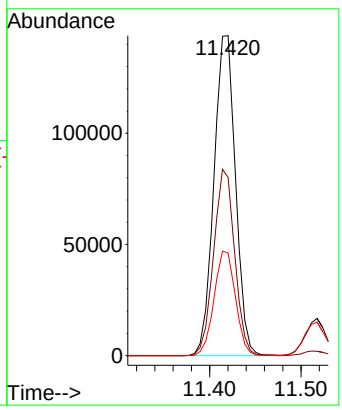





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:117 Resp: 23655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.7 | 46.6 | 70.0 |
| 119 | 32.1 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 05/21/2025
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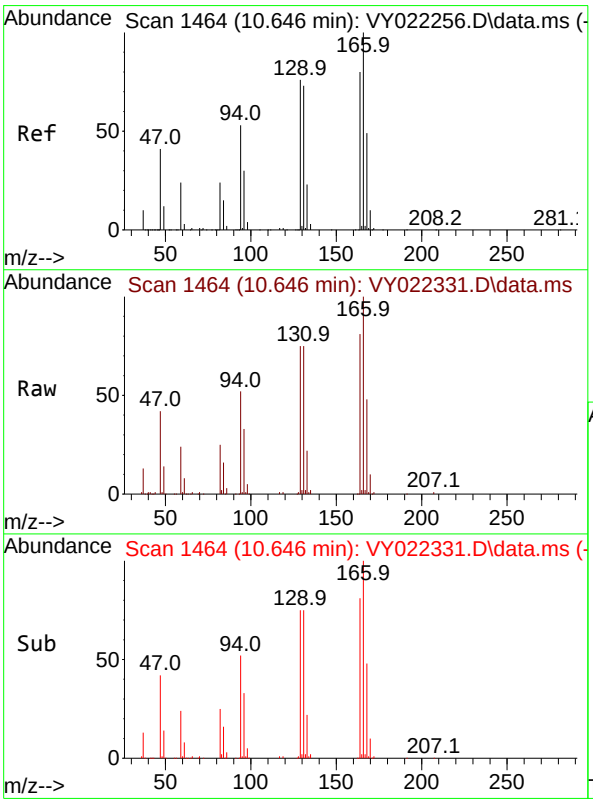
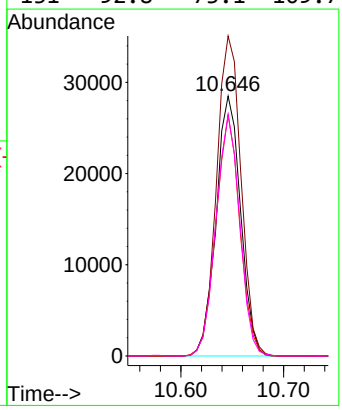
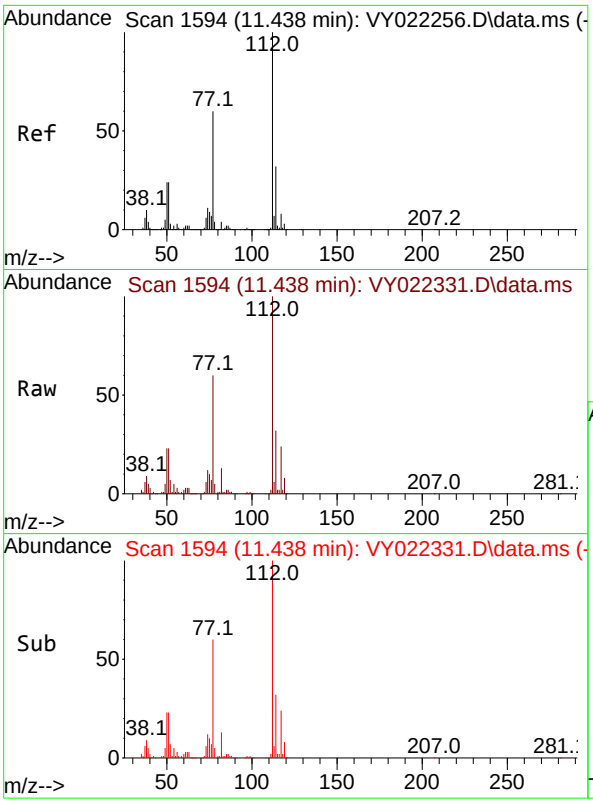



#64
Tetrachloroethene
Concen: 21.554 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:164 Resp: 47128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 123.1 | 100.4 | 150.6 |
| 129 | 92.7 | 76.4 | 114.6 |
| 131 | 92.8 | 73.1 | 109.7 |

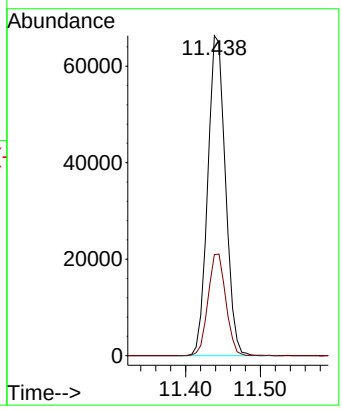





#65
Chlorobenzene
Concen: 20.477 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:112 Resp: 10928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.6 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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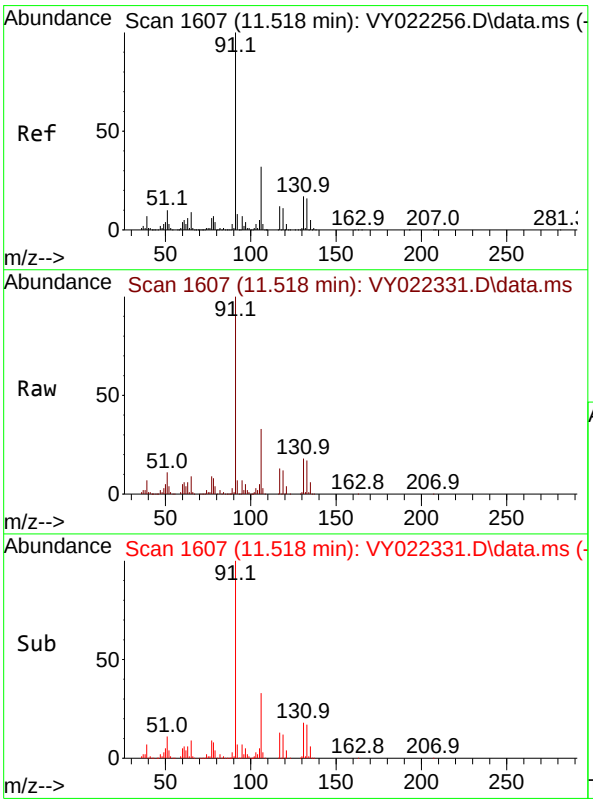
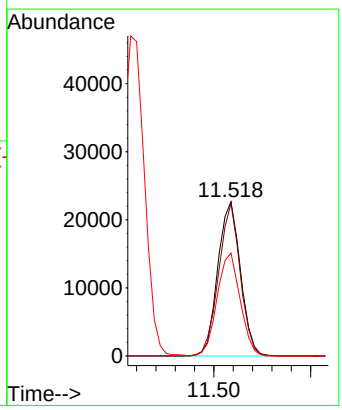
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

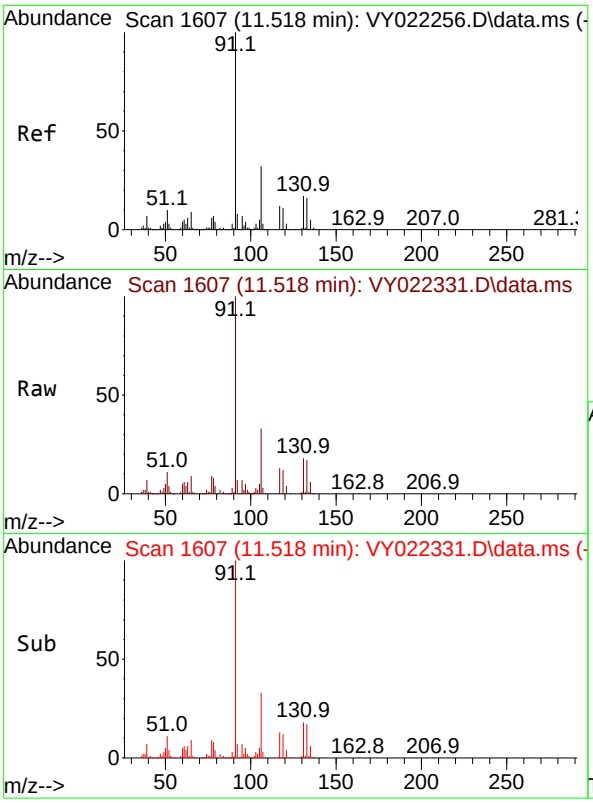



#66
1,1,1,2-Tetrachloroethane
Concen: 20.070 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:131 Resp: 36824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.2 | 47.3 | 141.9 |
| 119 | 67.7 | 33.1 | 99.2 |

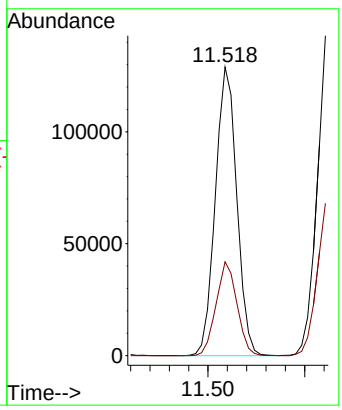





#67
Ethyl Benzene
Concen: 19.826 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 91 Resp: 19816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.5 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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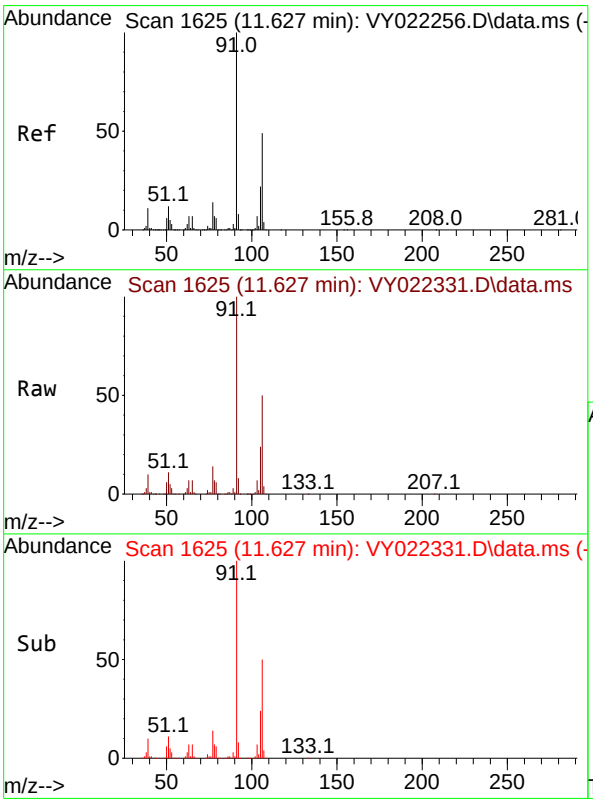
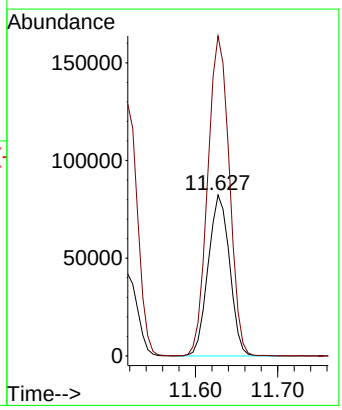
Supervised By :Semsettin Yesilyurt 05/21/2025

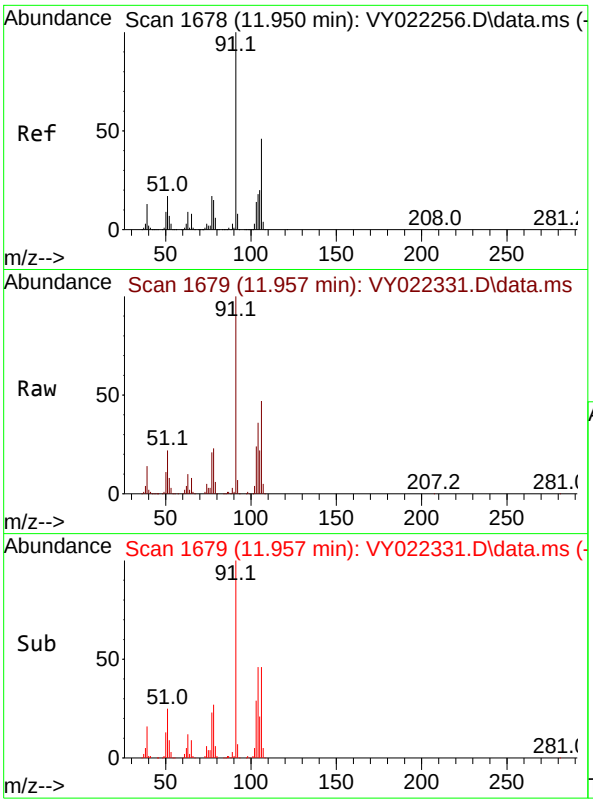



#68
m/p-Xylenes
Concen: 39.630 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:106 Resp: 149258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 200.2 | 163.0 | 244.4 |

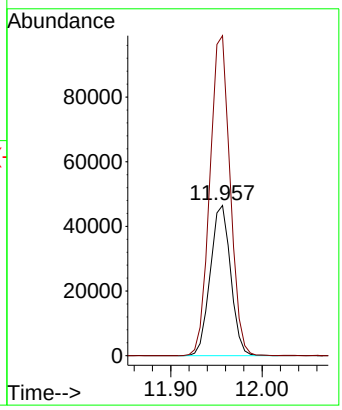





#69
o-Xylene
Concen: 20.198 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:106 Resp: 7197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 211.6 | 108.3 | 324.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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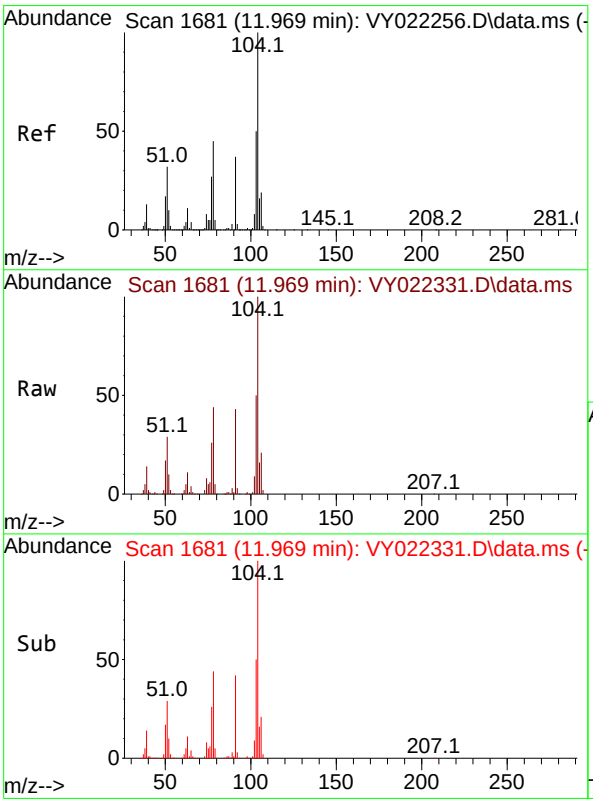
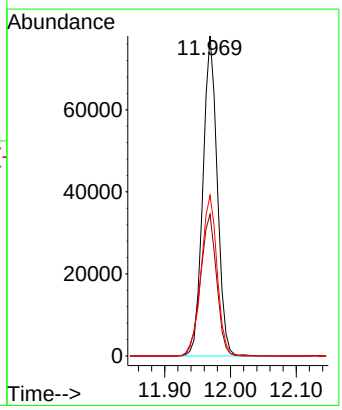
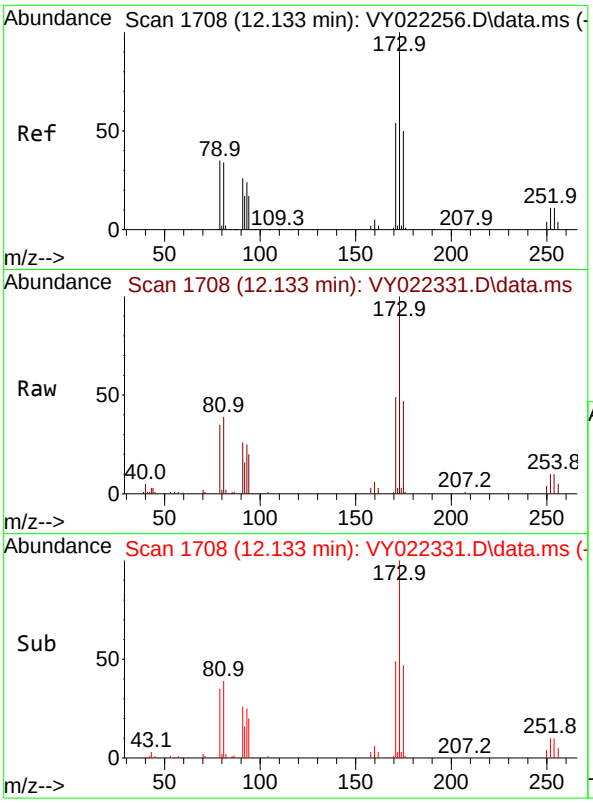



#70
Styrene
Concen: 19.712 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:104 Resp: 118483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.8 | 40.9 | 61.3 |
| 103 | 55.4 | 43.7 | 65.5 |

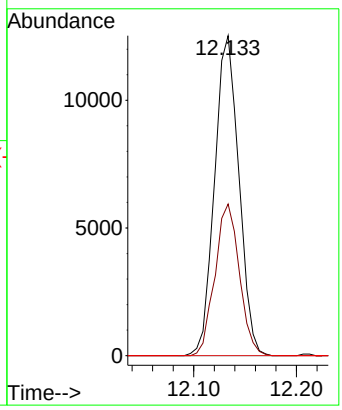





#71
Bromoform
Concen: 20.732 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:173 Resp: 2053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.7 | 24.7 | 74.1 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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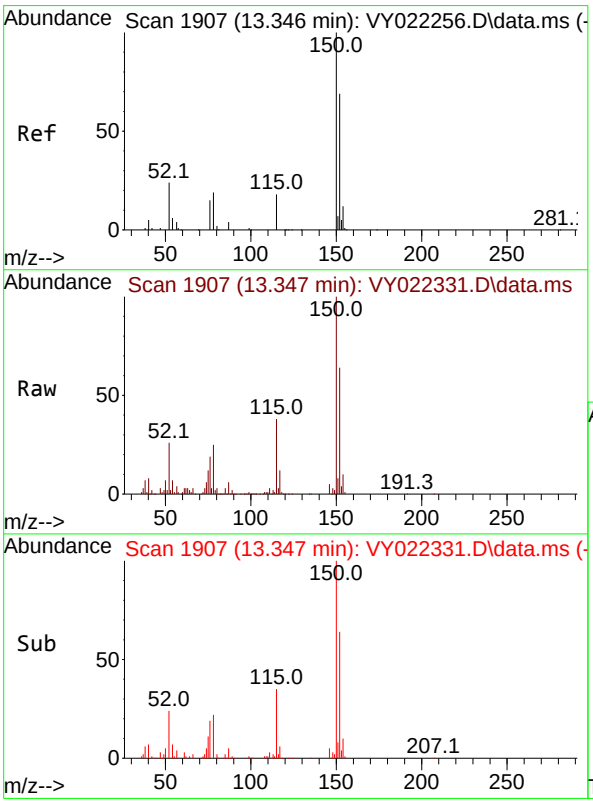
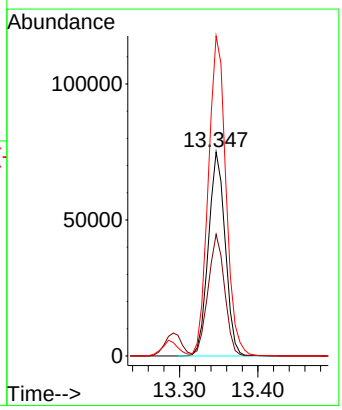
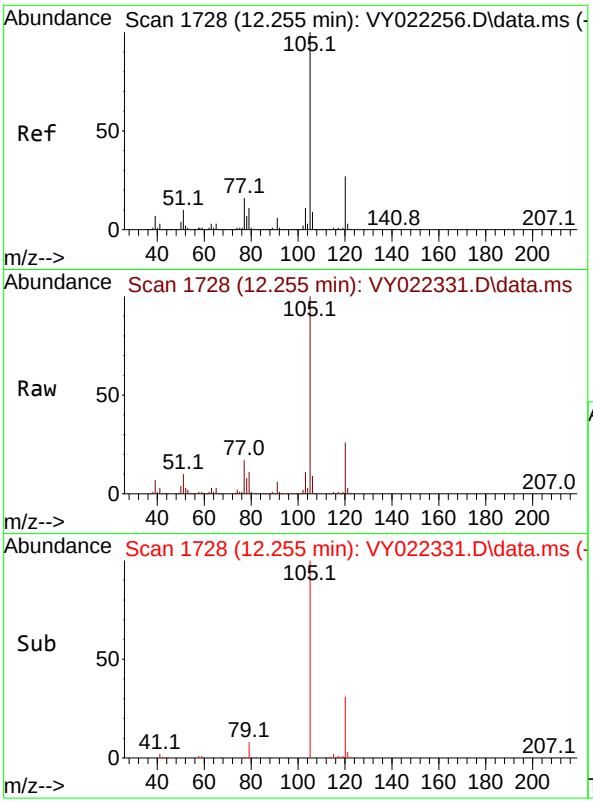



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:152 Resp: 111469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.8 | 29.4 | 88.2 |
| 150 | 165.1 | 0.0 | 353.8 |

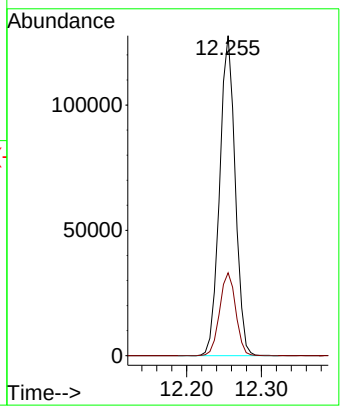





#73
Isopropylbenzene
Concen: 20.072 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:105 Resp: 18536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.7 | 13.2 | 39.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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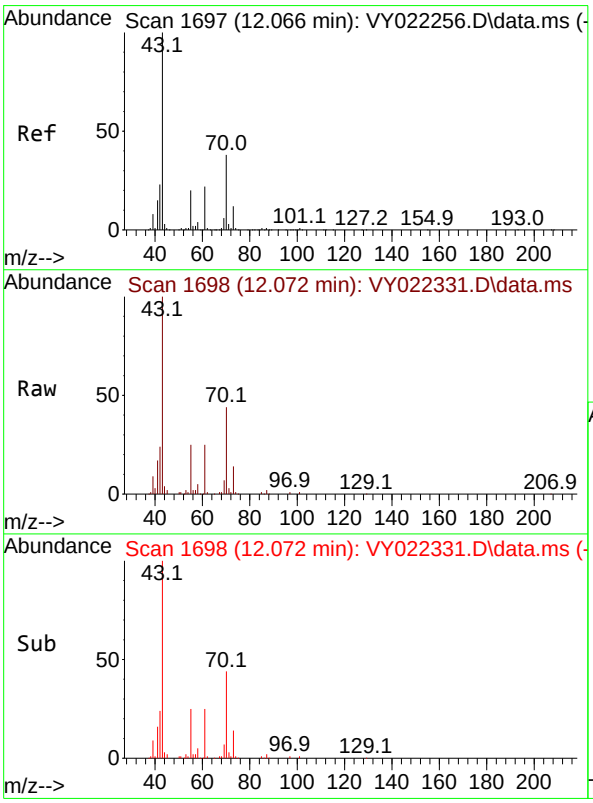
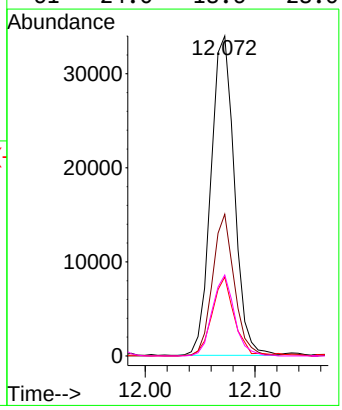
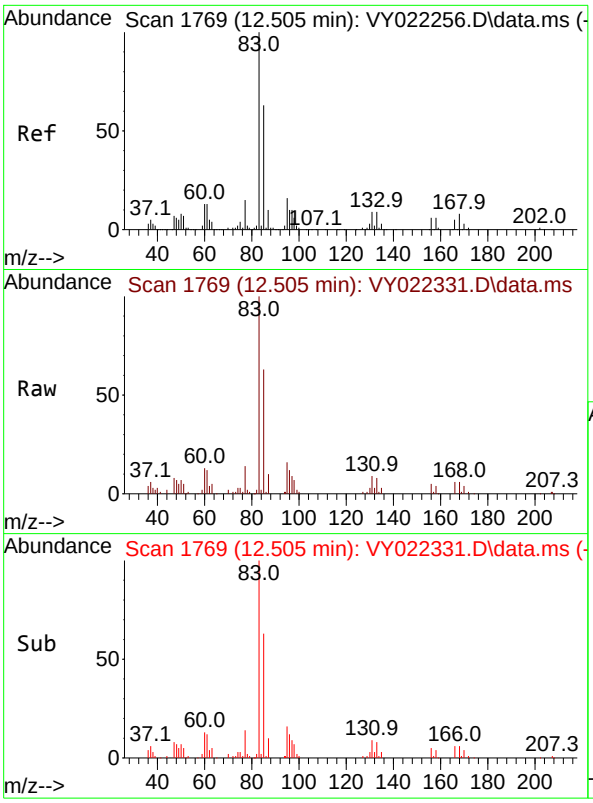



#74
N-amyl acetate
Concen: 19.104 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 43 Resp: 50457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 41.5 | 31.4 | 47.0 |
| 55 | 24.0 | 17.0 | 25.6 |
| 61 | 24.0 | 18.6 | 28.0 |

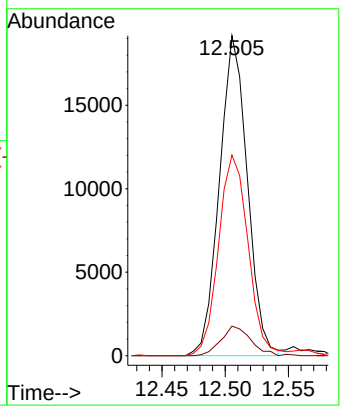





#75
1,1,2,2-Tetrachloroethane
Concen: 20.706 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 83 Resp: 2940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 4.9 | 14.7 |
| 85 | 66.4 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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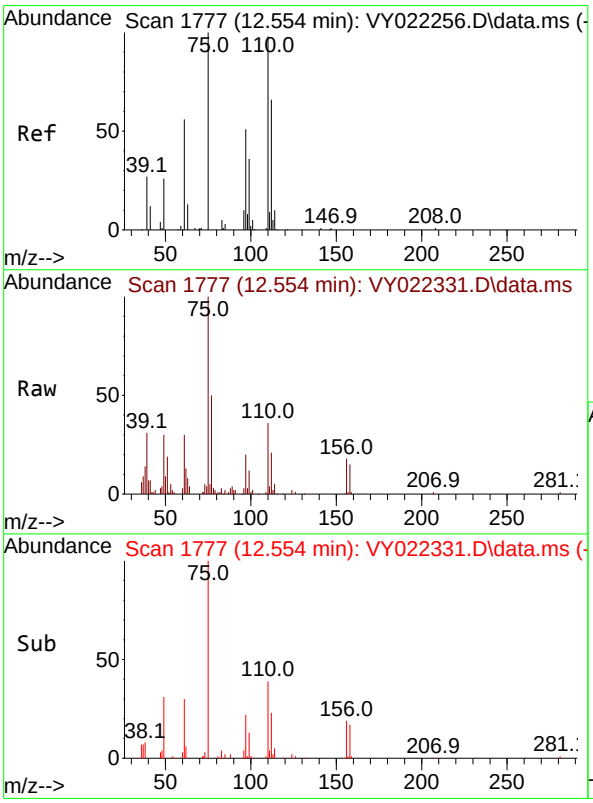
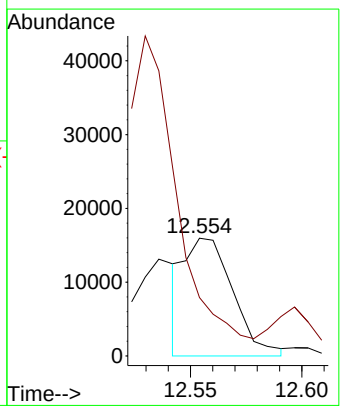
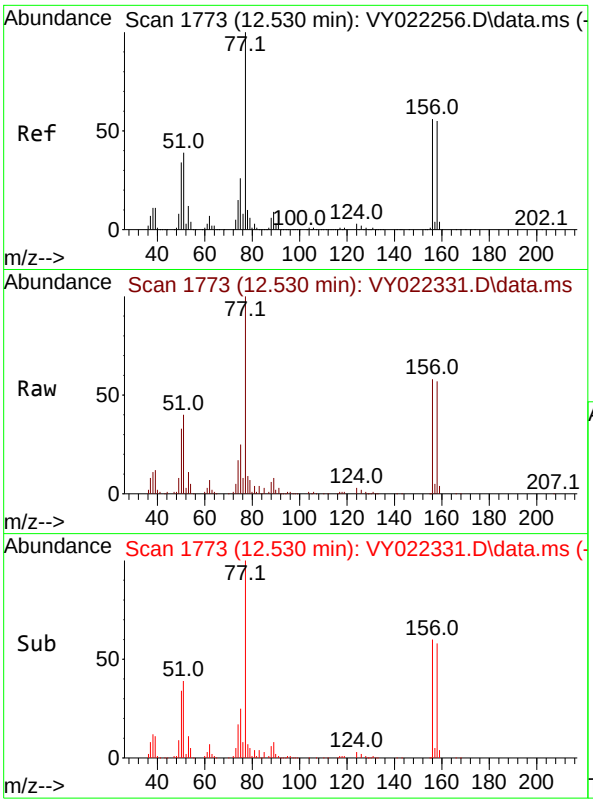



#76
1,2,3-Trichloropropane
Concen: 21.437 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 75 Resp: 24209

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

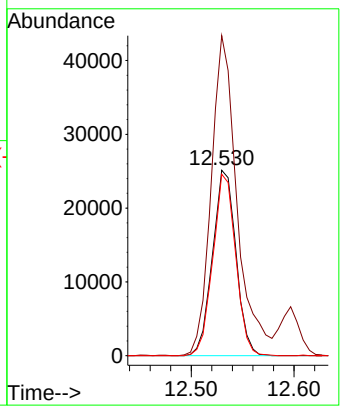





#77
Bromobenzene
Concen: 20.164 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:156 Resp: 3977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 190.6 | 94.5 | 283.6 |
| 158 | 95.4 | 48.4 | 145.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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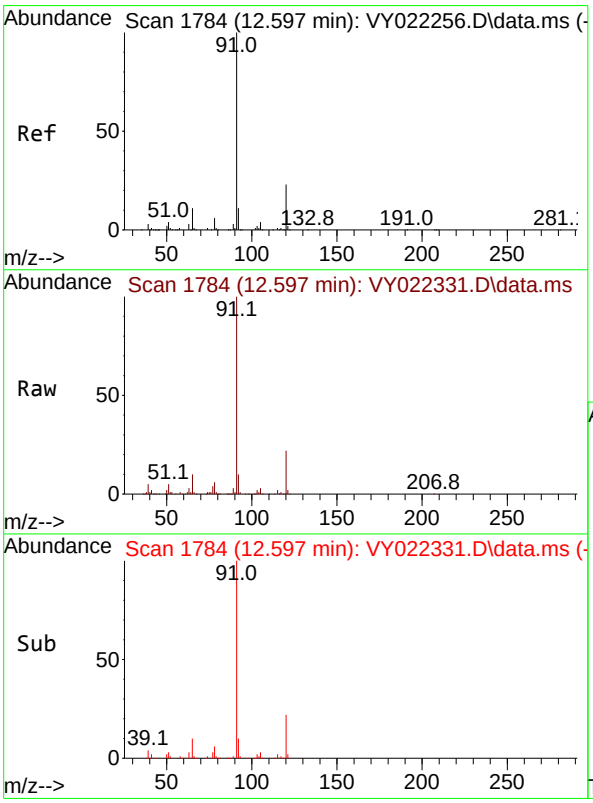
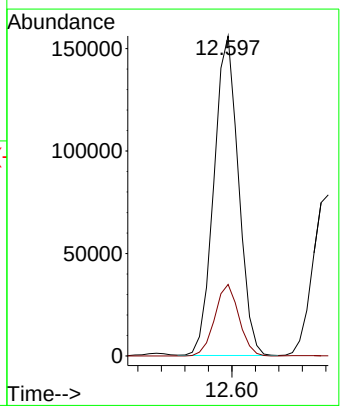
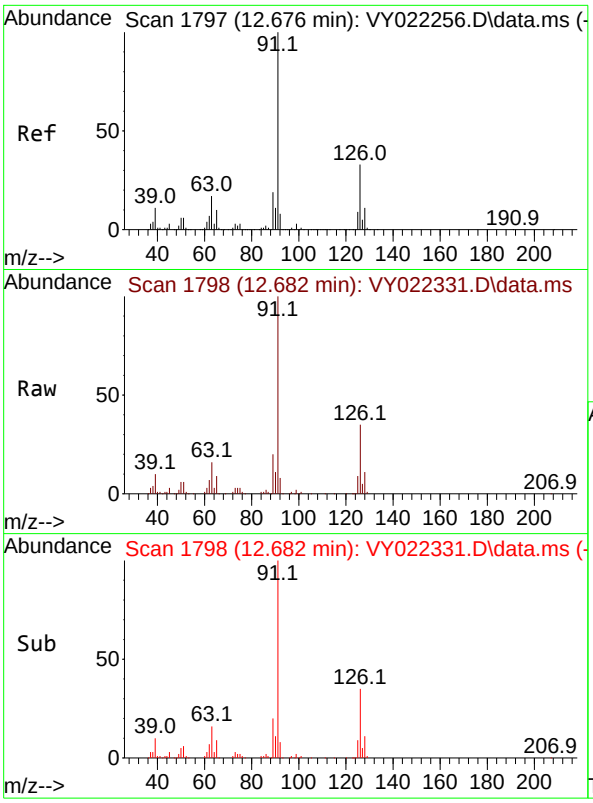



#78
n-propylbenzene
Concen: 20.317 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 91 Resp: 226302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.0 | 11.1 | 33.3 |

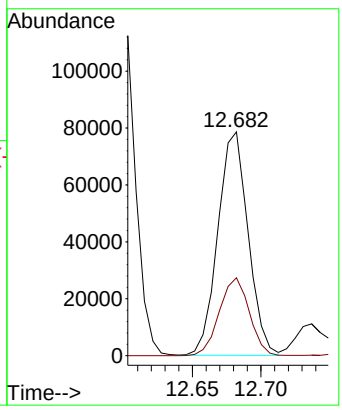





#79
2-Chlorotoluene
Concen: 19.708 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 91 Resp: 12063

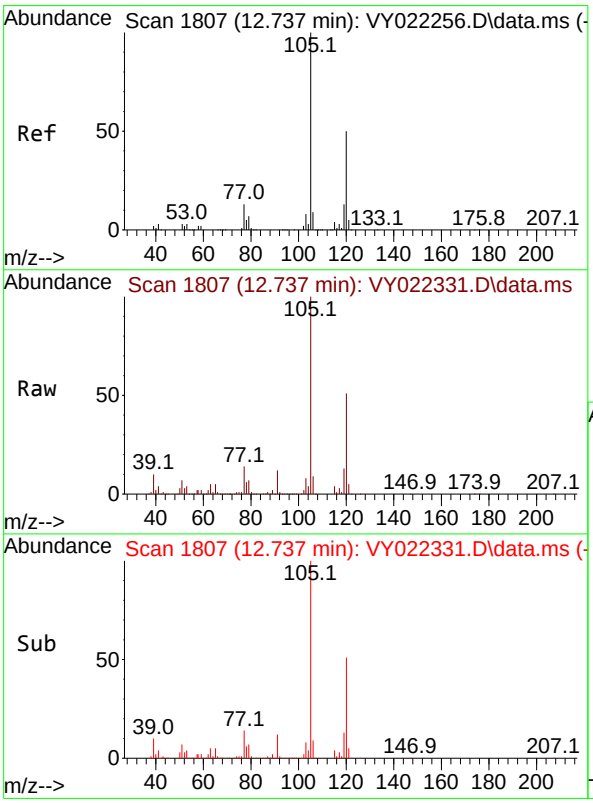
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.6 | 16.8 | 50.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
**APPROVED**

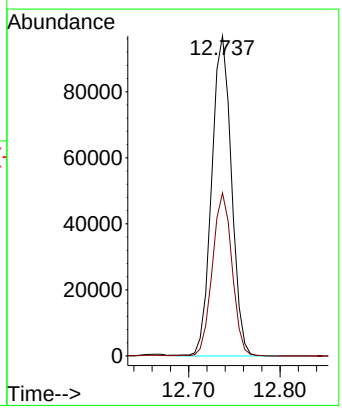
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

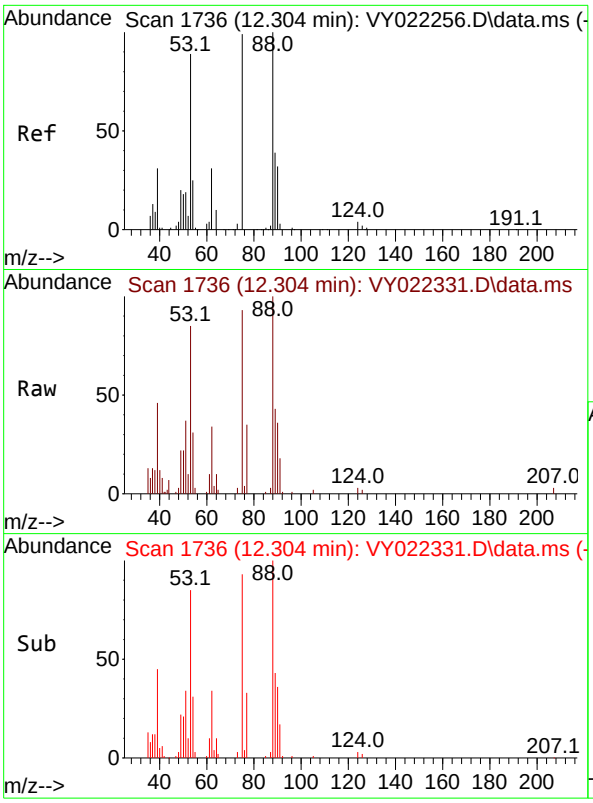



#80
1,3,5-Trimethylbenzene
Concen: 19.524 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:105 Resp: 145541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.6 | 24.2 | 72.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 18.754 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 75 Resp: 1045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 93.1 | 75.8 | 113.8 |
| 89 | 47.4 | 36.2 | 54.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

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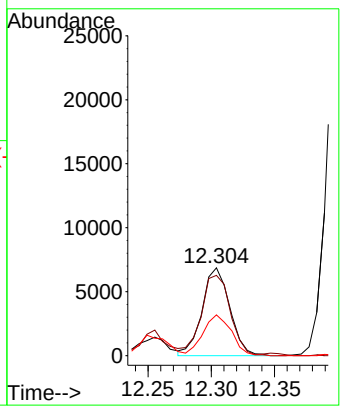
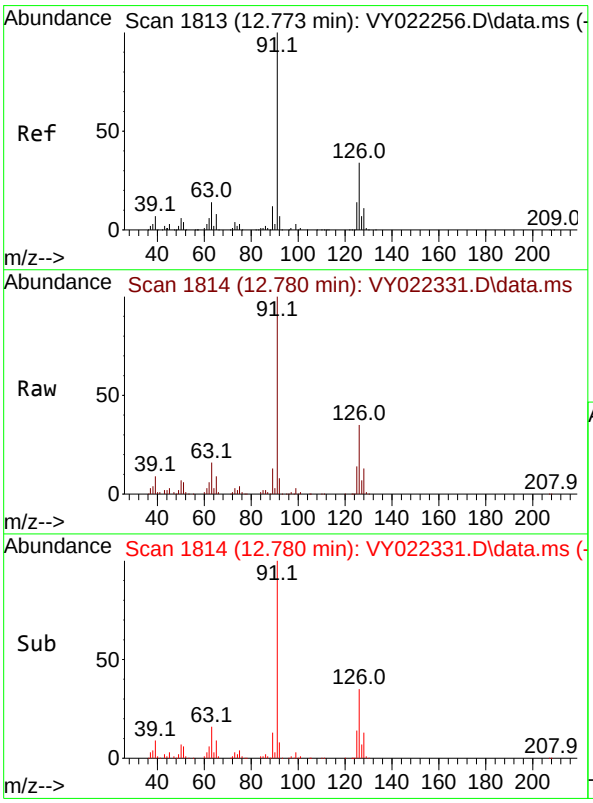
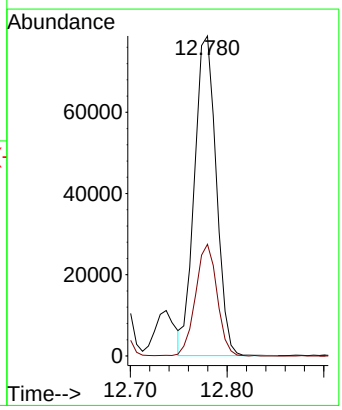


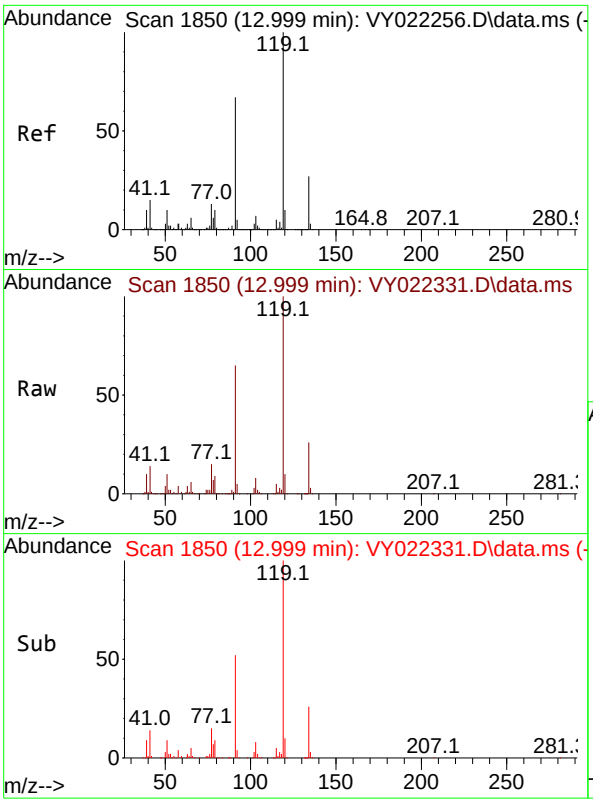




#82
4-Chlorotoluene
Concen: 19.623 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 91 Resp: 123547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.7 | 16.8 | 50.4 |






#83
tert-Butylbenzene
Concen: 19.842 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:119 Resp: 13146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.3 | 32.8 | 98.3 |
| 134 | 25.6 | 12.9 | 38.6 |

**Instrument :**
MSVOA_Y
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VY0520SBS01

**Manual Integrations**
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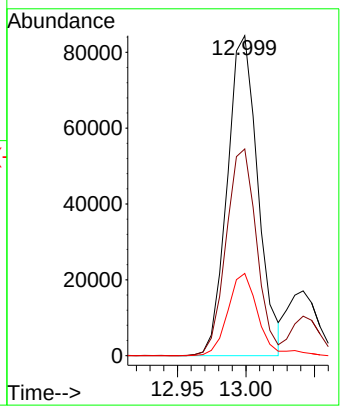
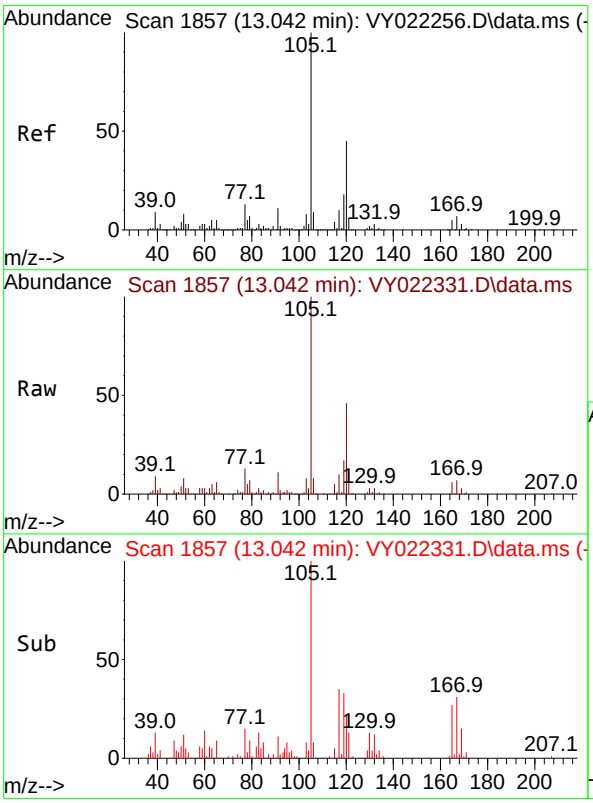
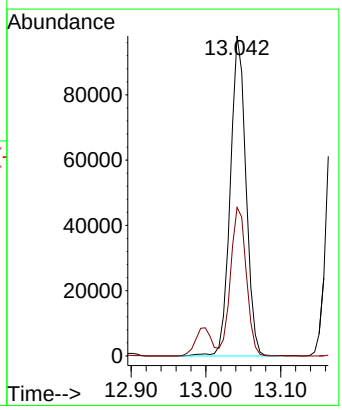


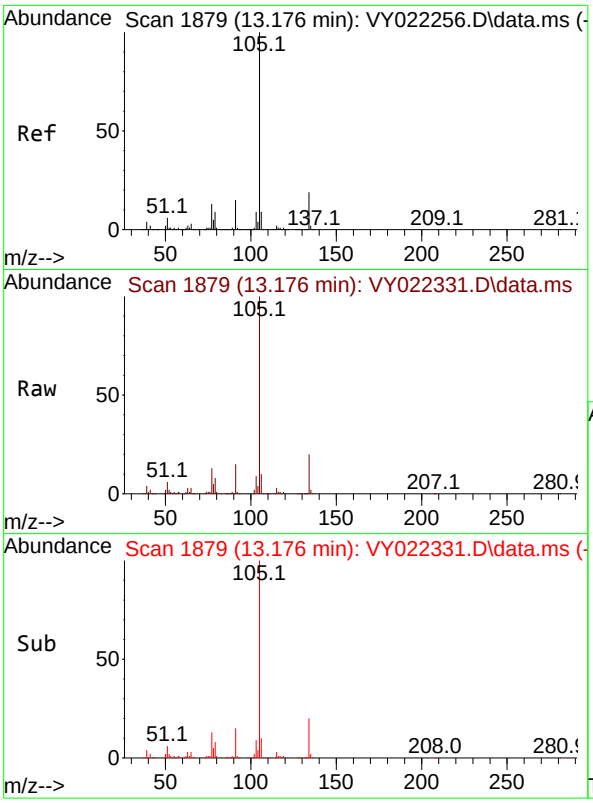




#84
1,2,4-Trimethylbenzene
Concen: 19.322 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:105 Resp: 142982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.4 | 22.3 | 66.9 |

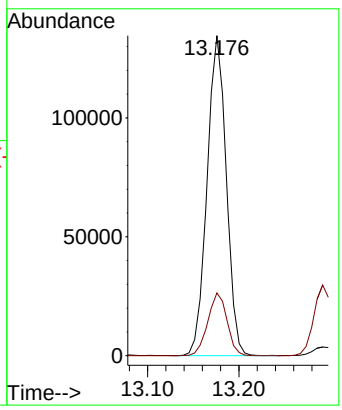





#85
sec-Butylbenzene
Concen: 19.981 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:105 Resp: 19652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.6 | 9.8 | 29.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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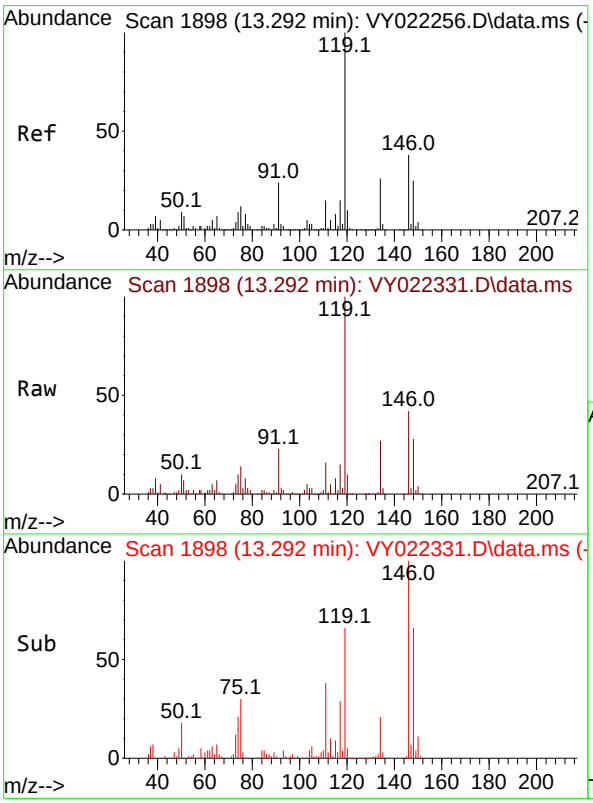
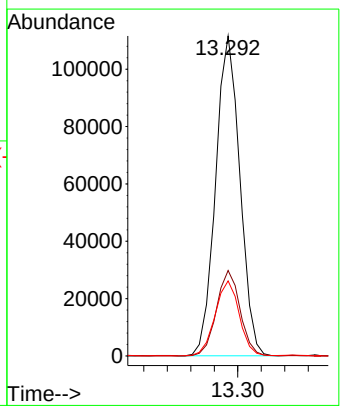
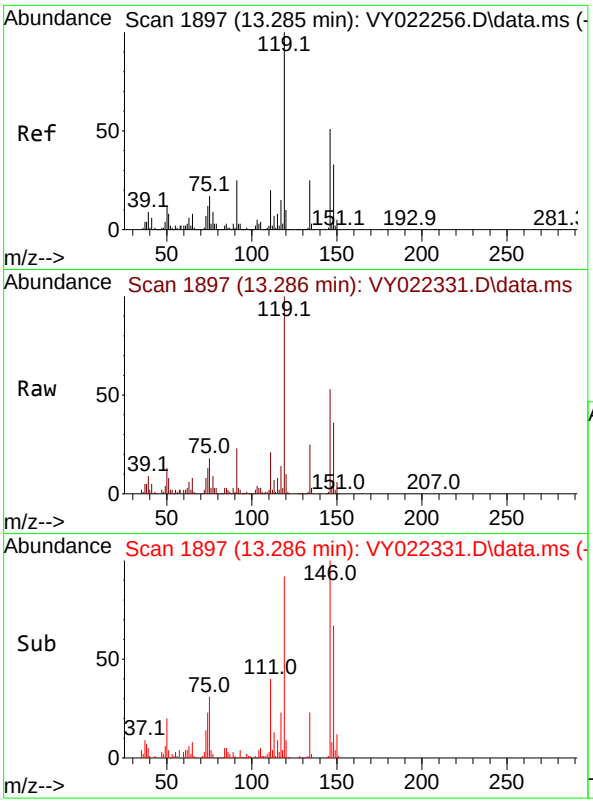



#86
p-Isopropyltoluene
Concen: 19.345 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:119 Resp: 160020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 12.9 | 38.6 |
| 91 | 23.1 | 12.1 | 36.3 |

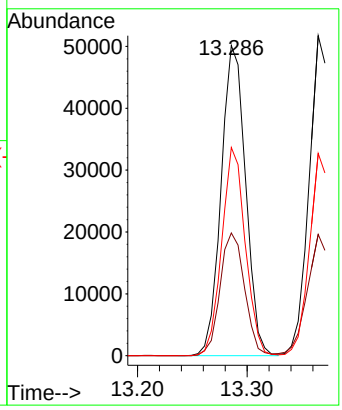





#87
1,3-Dichlorobenzene
Concen: 19.324 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:146 Resp: 7780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.7 | 19.9 | 59.7 |
| 148 | 64.6 | 31.9 | 95.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

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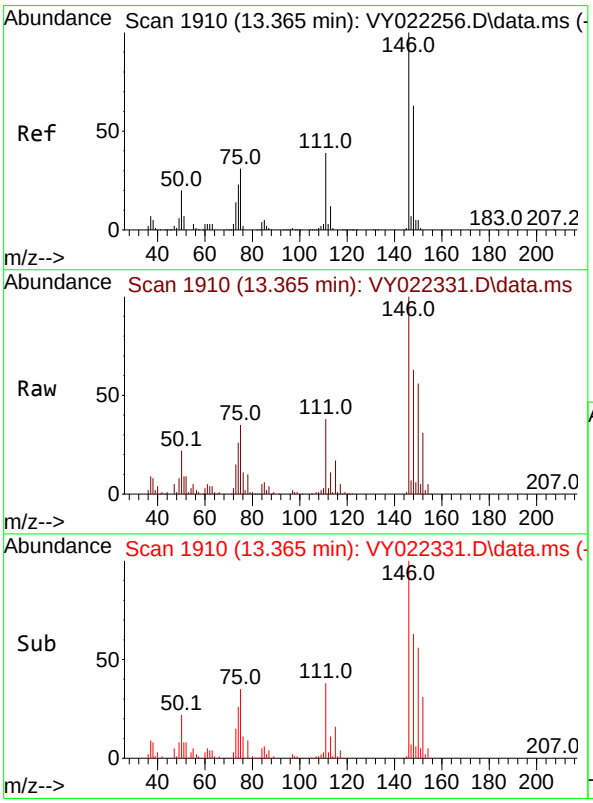
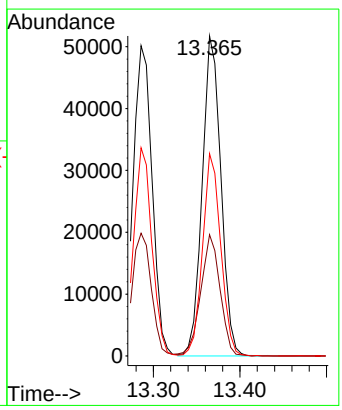
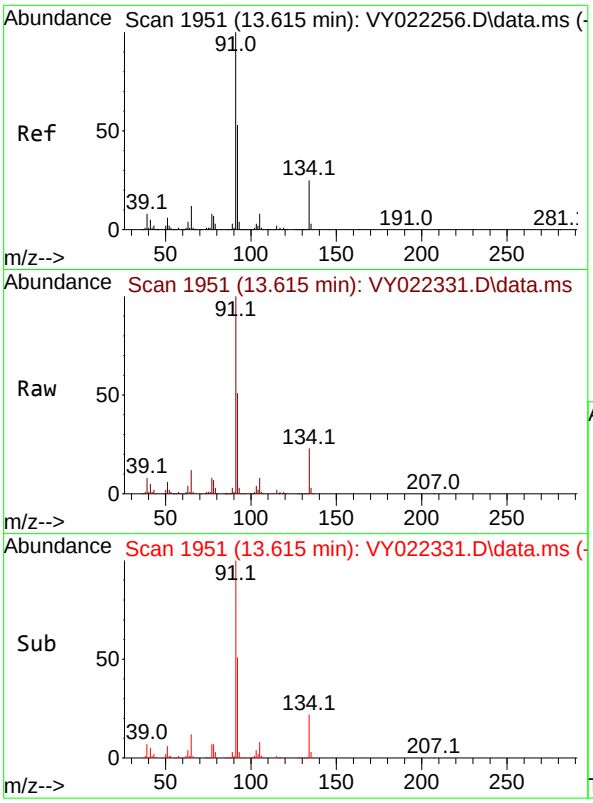



#88
1,4-Dichlorobenzene
Concen: 20.041 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:146 Resp: 77620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.3 | 20.0 | 59.9 |
| 148 | 61.5 | 32.1 | 96.5 |

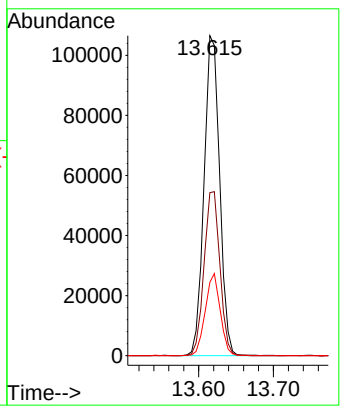





#89
n-Butylbenzene
Concen: 19.712 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 91 Resp: 15425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.1 | 26.3 | 78.9 |
| 134 | 24.7 | 12.4 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

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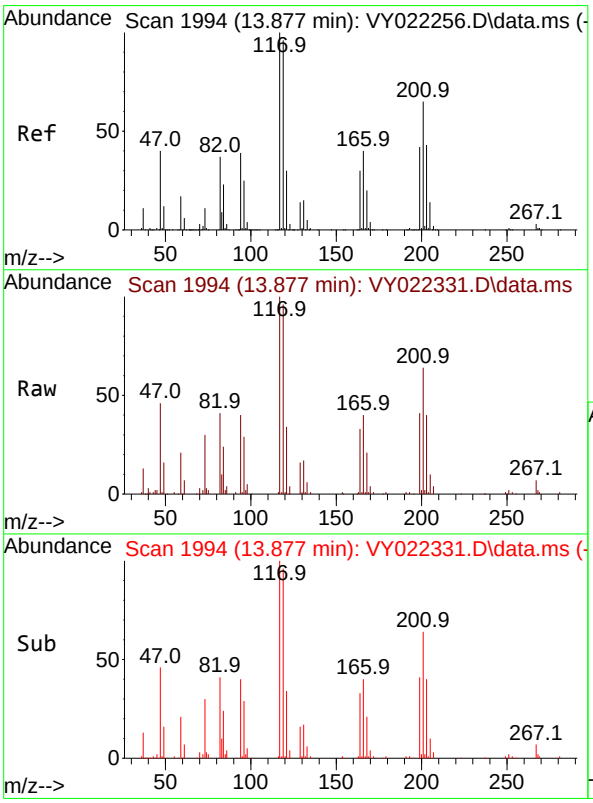
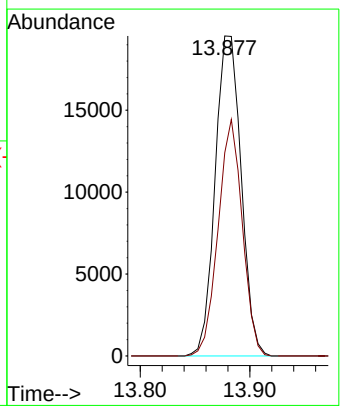
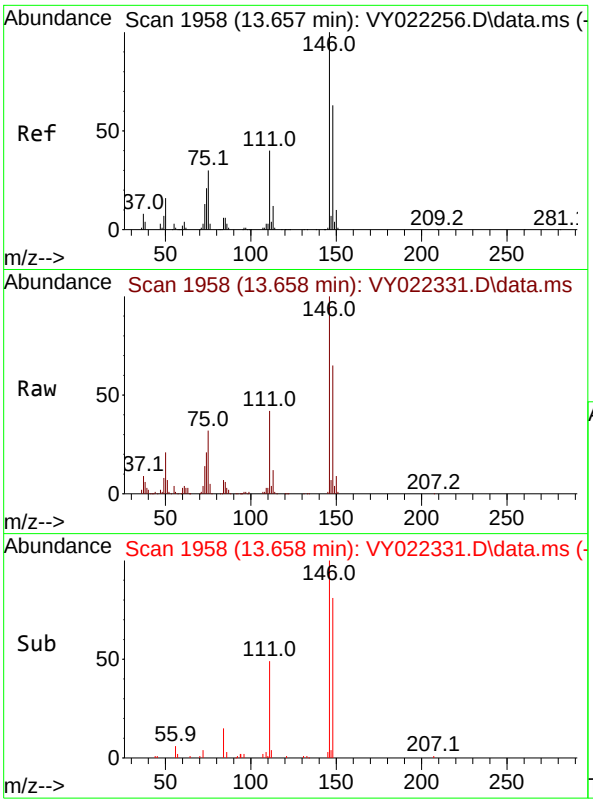



#90
Hexachloroethane
Concen: 19.287 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:117 Resp: 32205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 68.7 | 35.2 | 105.6 |

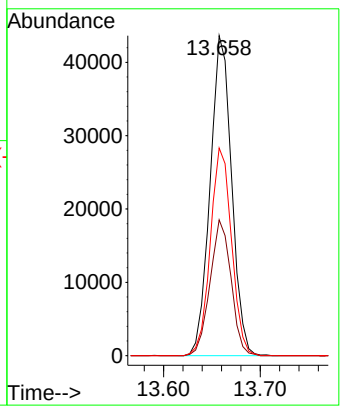





#91
1,2-Dichlorobenzene
Concen: 19.901 ug/l
RT: 13.658 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:146 Resp: 6730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.4 | 20.5 | 61.5 |
| 148 | 64.3 | 32.0 | 96.0 |




**Instrument :**
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**ClientSampleId :**
VY0520SBS01

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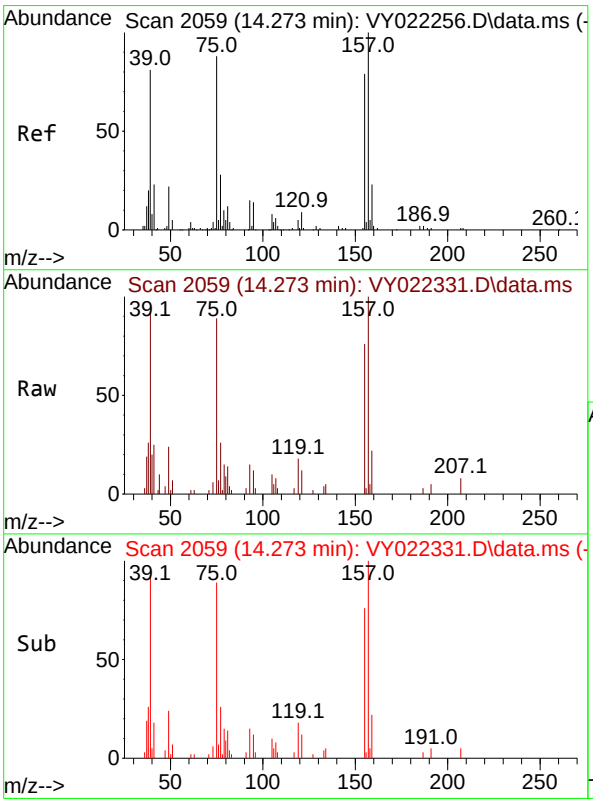
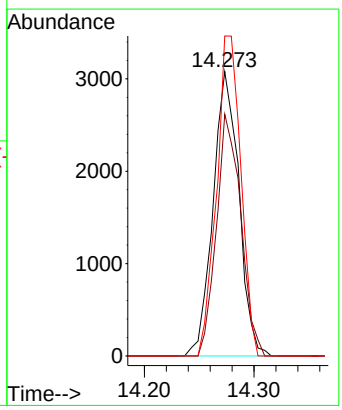
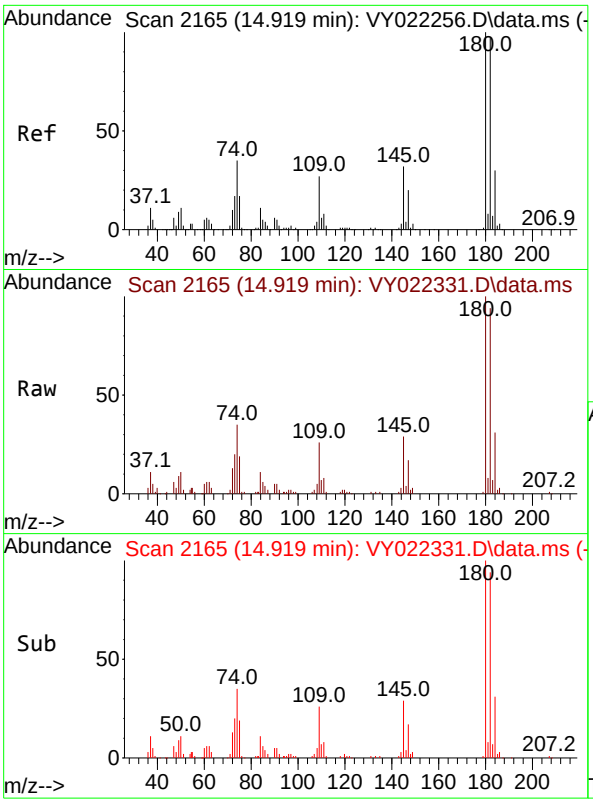



#92
1,2-Dibromo-3-Chloropropane
Concen: 21.968 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion: 75 Resp: 5031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 80.4 | 43.4 | 130.1 |
| 157 | 105.9 | 54.6 | 163.9 |






#93
1,2,4-Trichlorobenzene
Concen: 19.152 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:180 Resp: 3741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.1 | 48.0 | 144.0 |
| 145 | 29.0 | 15.0 | 45.1 |

**Instrument :**
MSVOA_Y
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VY0520SBS01

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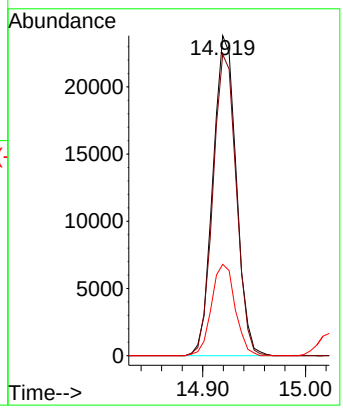
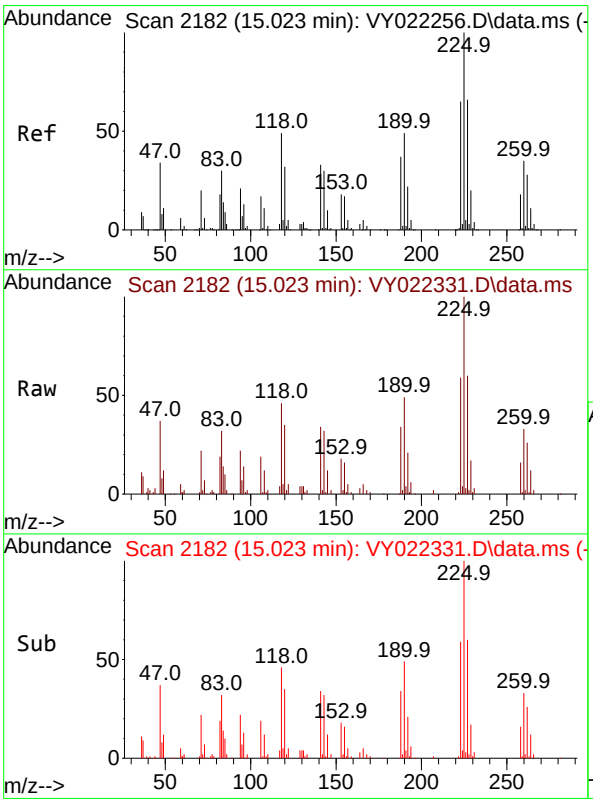
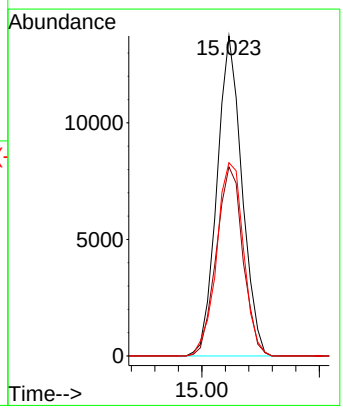


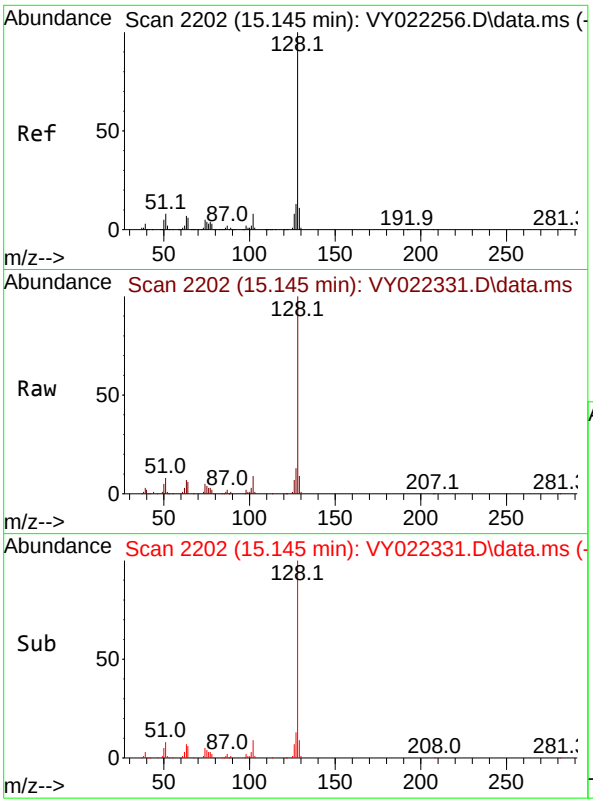




#94
Hexachlorobutadiene
Concen: 18.648 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:225 Resp: 20316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.7 | 31.5 | 94.5 |
| 227 | 65.1 | 32.1 | 96.3 |

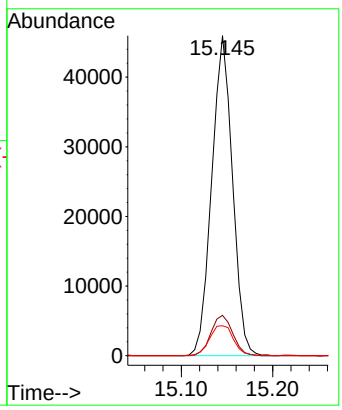





#95
Naphthalene
Concen: 19.543 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:128 Resp: 7245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.2 | 15.2 |
| 129 | 10.8 | 8.8 | 13.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0520SBS01

**Manual Integrations**
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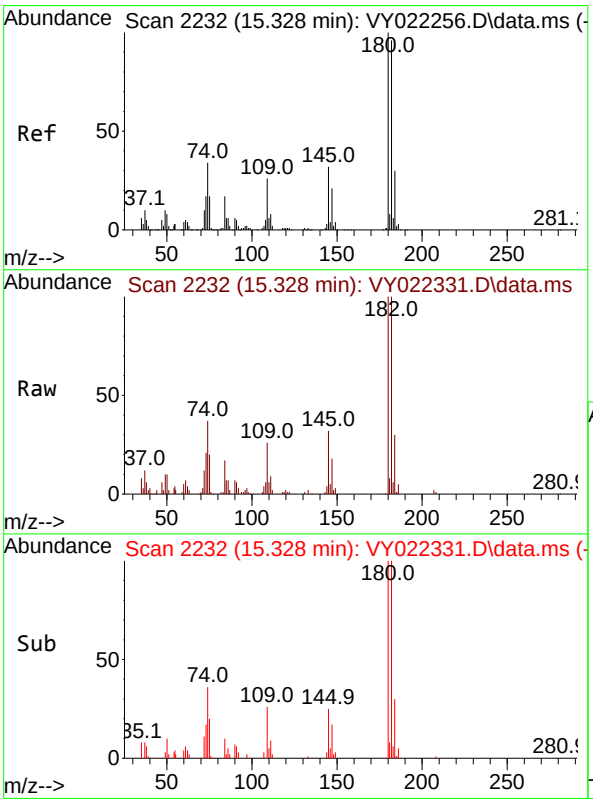
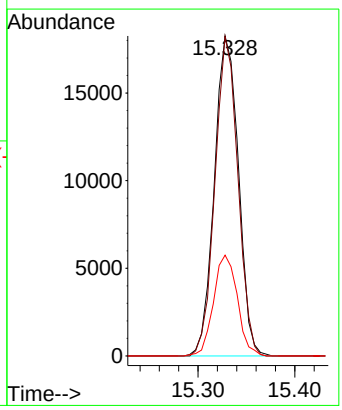



#96
1,2,3-Trichlorobenzene
Concen: 19.029 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022331.D
Acq: 20 May 2025 10:21

Tgt Ion:180 Resp: 31537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 47.1 | 141.3 |
| 145 | 31.2 | 15.9 | 47.6 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | |
| Client Sample ID: | VY0522SBS01 | SDG No.: | Q2075 |
| Lab Sample ID: | VY0522SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022382.D | 1 | | 05/22/25 09:36 | VY052225 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 19.5 | | 0.79 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 19.4 | | 0.78 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 18.7 | | 0.67 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 56.8 | | 2.02 | 15.0 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 19.3 | | 0.78 | 5.00 | ug/Kg |
| 103-65-1 | n-propylbenzene | 19.4 | | 0.73 | 5.00 | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | 18.9 | | 0.82 | 5.00 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 19.2 | | 0.67 | 5.00 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 18.8 | | 0.64 | 5.00 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 19.4 | | 0.66 | 5.00 | ug/Kg |
| 99-87-6 | p-Isopropyltoluene | 19.0 | | 0.62 | 5.00 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 19.3 | | 1.50 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 48.4 | | 63 - 155 | 97% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.3 | | 70 - 134 | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.3 | | 74 - 123 | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.7 | | 38 - 136 | 95% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 175000 | 7.719 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 294000 | 8.622 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 251000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 118000 | 13.353 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022382.D
Acq On : 22 May 2025 09:36
Operator : SY/MD
Sample : VY0522SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 03:32:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 174604 | 50.000 | ug/l | | 0.01 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 293942 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 250842 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 118480 | 50.000 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 92313 | 48.376 | ug/l | | 0.01 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 96.760% | | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 88232 | 50.291 | ug/l | | 0.01 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.580% | | | | |
| 50) Toluene-d8 | 10.115 | 98 | 361670 | 50.334 | ug/l | | 0.01 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 100.660% | | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 108691 | 47.724 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 95.440% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 35700 | 19.595 | ug/l | | 100 |
| 3) Chloromethane | 2.074 | 50 | 89428 | 23.334 | ug/l | | 96 |
| 4) Vinyl Chloride | 2.208 | 62 | 106584 | 24.892 | ug/l | | 98 |
| 5) Bromomethane | 2.598 | 94 | 120242 | 34.496 | ug/l | | 100 |
| 6) Chloroethane | 2.739 | 64 | 75963 | 28.516 | ug/l | | 99 |
| 7) Trichlorofluoromethane | 3.056 | 101 | 101302 | 23.367 | ug/l | | 96 |
| 8) Diethyl Ether | 3.464 | 74 | 20744 | 19.939 | ug/l | | 92 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 39378 | 20.923 | ug/l | | 99 |
| 10) Methyl Iodide | 4.013 | 142 | 39404 | 18.090 | ug/l | | 98 |
| 11) Tert butyl alcohol | 4.891 | 59 | 13893 | 95.339 | ug/l | # | 100 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 38242 | 20.476 | ug/l | | 94 |
| 13) Acrolein | 3.665 | 56 | 11668 | 54.771 | ug/l | | 97 |
| 14) Allyl chloride | 4.397 | 41 | 57800 | 17.650 | ug/l | | 93 |
| 15) Acrylonitrile | 5.067 | 53 | 41413 | 96.604 | ug/l | | 99 |
| 16) Acetone | 3.885 | 43 | 37784 | 105.597 | ug/l | | 96 |
| 17) Carbon Disulfide | 4.116 | 76 | 117567 | 19.304 | ug/l | | 99 |
| 18) Methyl Acetate | 4.403 | 43 | 18733 | 16.605 | ug/l | # | 89 |
| 19) Methyl tert-butyl Ether | 5.128 | 73 | 100940 | 19.601 | ug/l | | 98 |
| 20) Methylene Chloride | 4.629 | 84 | 43819 | 18.952 | ug/l | | 90 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 40647 | 19.717 | ug/l | | 95 |
| 22) Diisopropyl ether | 6.031 | 45 | 124864 | 18.055 | ug/l | | 98 |
| 23) Vinyl Acetate | 5.970 | 43 | 370765 | 88.742 | ug/l | | 96 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 75035 | 19.421 | ug/l | | 99 |
| 25) 2-Butanone | 6.909 | 43 | 57111 | 95.421 | ug/l | | 95 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 69084 | 20.103 | ug/l | | 100 |
| 27) cis-1,2-Dichloroethene | 6.902 | 96 | 47248 | 19.861 | ug/l | | 97 |
| 28) Bromochloromethane | 7.256 | 49 | 30609 | 18.573 | ug/l | | 96 |
| 29) Tetrahydrofuran | 7.280 | 42 | 35533 | 92.280 | ug/l | | 94 |
| 30) Chloroform | 7.433 | 83 | 74530 | 20.111 | ug/l | | 99 |
| 31) Cyclohexane | 7.713 | 56 | 72006 | 18.653 | ug/l | | 95 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 66206 | 19.472 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 56933 | 19.702 | ug/l | | 99 |
| 37) Ethyl Acetate | 6.994 | 43 | 26743 | 19.234 | ug/l | | 97 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 59138 | 19.771 | ug/l | | 97 |
| 39) Methylcyclohexane | 9.116 | 83 | 74349 | 19.151 | ug/l | | 97 |
| 40) Benzene | 8.091 | 78 | 167114 | 19.508 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022382.D
Acq On : 22 May 2025 09:36
Operator : SY/MD
Sample : VY0522SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 03:32:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 14142 | 15.333 | ug/l | # | 82 |
| 42) 1,2-Dichloroethane | 8.171 | 62 | 44204 | 19.081 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.207 | 43 | 52844 | 17.427 | ug/l | | 98 |
| 44) Trichloroethene | 8.872 | 130 | 42833 | 20.109 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 39408 | 19.081 | ug/l | | 97 |
| 46) Dibromomethane | 9.237 | 93 | 22173 | 19.905 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.433 | 83 | 55825 | 19.317 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.231 | 41 | 24395 | 17.203 | ug/l | | 94 |
| 49) 1,4-Dioxane | 9.250 | 88 | 5019 | 398.826 | ug/l | | 89 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 132300 | 88.920 | ug/l | | 96 |
| 52) Toluene | 10.176 | 92 | 105474 | 19.443 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 52289 | 18.540 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 60767 | 18.806 | ug/l | | 95 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 27910 | 19.566 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.445 | 69 | 41592 | 18.718 | ug/l | | 95 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 50921 | 20.091 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 80535 | 80.750 | ug/l | | 97 |
| 59) 2-Hexanone | 10.768 | 43 | 89261 | 89.478 | ug/l | | 95 |
| 60) Dibromochloromethane | 10.920 | 129 | 36931 | 19.947 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 26053 | 19.596 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.652 | 164 | 46204 | 19.928 | ug/l | | 96 |
| 65) Chlorobenzene | 11.450 | 112 | 111687 | 19.735 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 36492 | 18.757 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.524 | 91 | 198411 | 18.720 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 151710 | 37.987 | ug/l | | 97 |
| 69) o-Xylene | 11.963 | 106 | 71140 | 18.827 | ug/l | | 100 |
| 70) Styrene | 11.975 | 104 | 121069 | 18.995 | ug/l | | 97 |
| 71) Bromoform | 12.139 | 173 | 20171 | 19.208 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.261 | 105 | 189456 | 19.302 | ug/l | | 100 |
| 74) N-amyl acetate | 12.078 | 43 | 47777 | 17.019 | ug/l | | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 29957 | 19.845 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 22658m | 18.877 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 39583 | 18.881 | ug/l | | 98 |
| 78) n-propylbenzene | 12.603 | 91 | 229385 | 19.375 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 120979 | 18.594 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 149426 | 18.859 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 10636 | 17.950 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 123043 | 18.386 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 134904 | 19.156 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 147645 | 18.771 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.182 | 105 | 202478 | 19.368 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 166855 | 18.977 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 80701 | 18.857 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 78194 | 18.995 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.621 | 91 | 160206 | 19.260 | ug/l | | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 33947 | 19.127 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 68652 | 19.098 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 4780 | 19.637 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 40453 | 19.482 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 21731 | 18.766 | ug/l | | 98 |
| 95) Naphthalene | 15.151 | 128 | 76320 | 19.368 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 33805 | 19.191 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022382.D
Acq On : 22 May 2025 09:36
Operator : SY/MD
Sample : VY0522SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 03:32:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

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

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

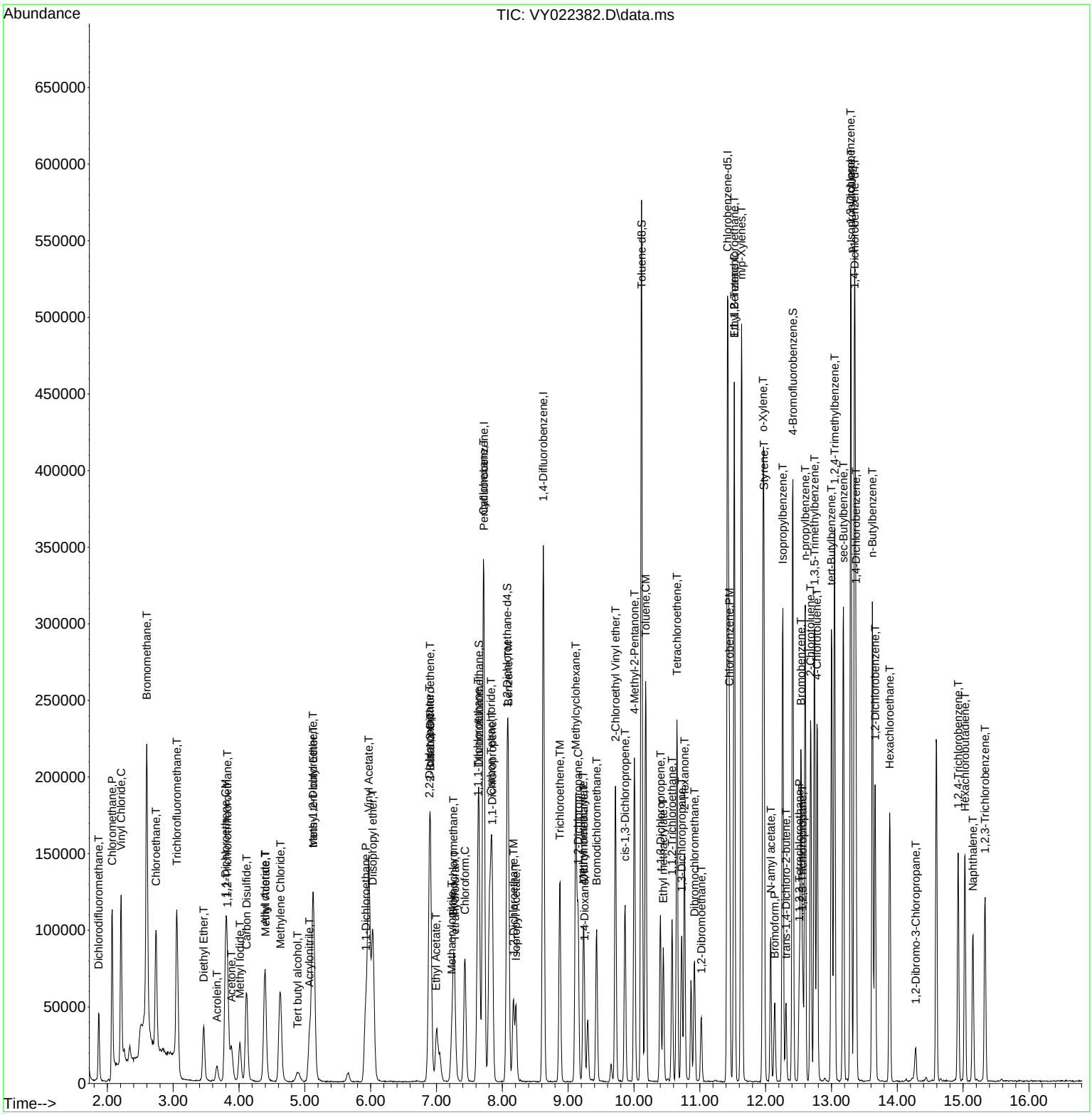
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022382.D
Acq On : 22 May 2025 09:36
Operator : SY/MD
Sample : VY0522SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

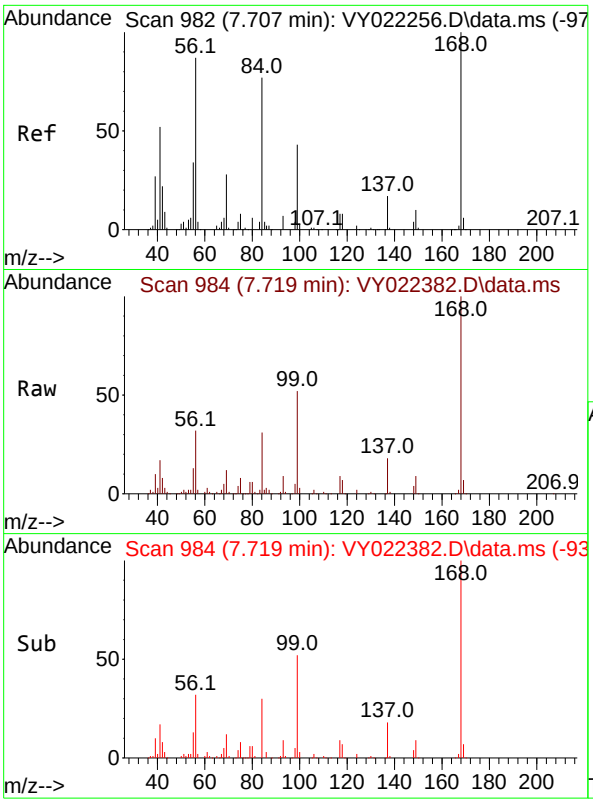
Quant Time: May 23 03:32:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

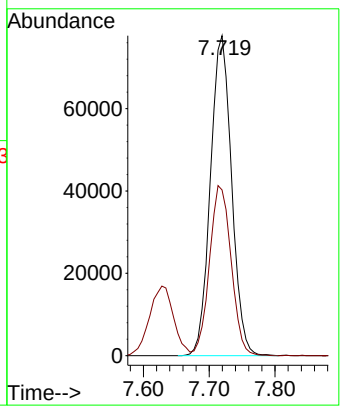





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:168 Resp: 17460

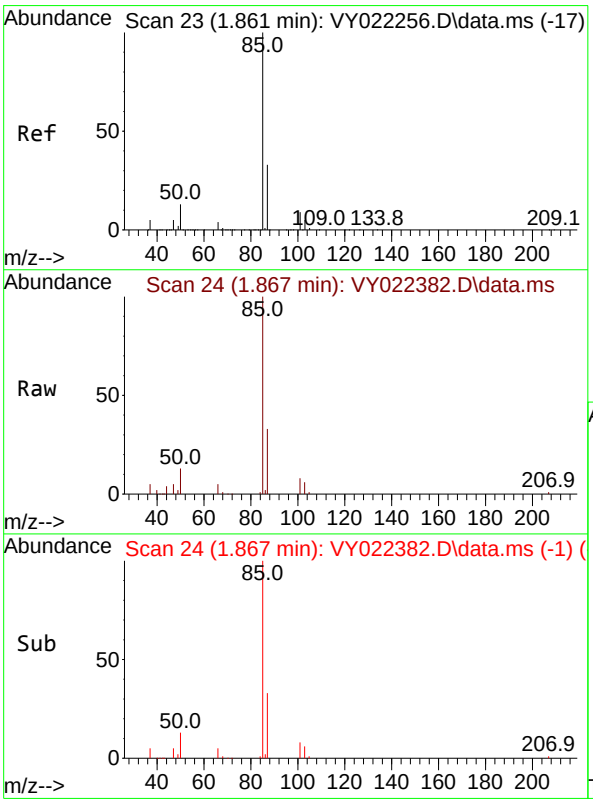
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.8 | 44.2 | 66.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
**APPROVED**

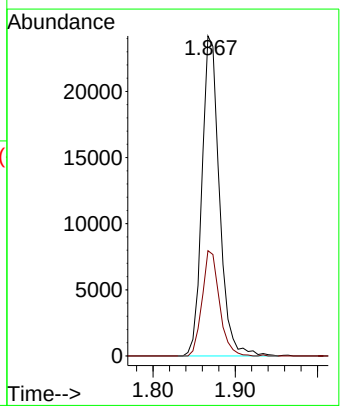
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

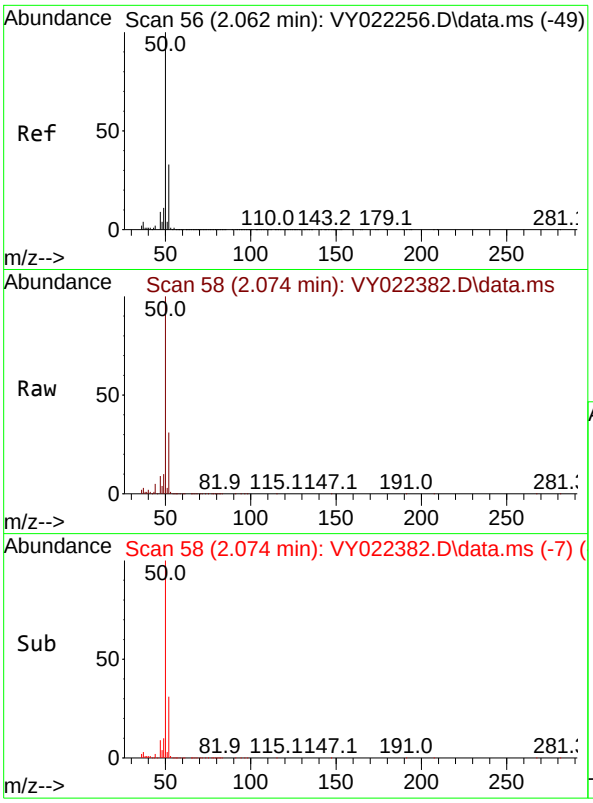



#2
Dichlorodifluoromethane
Concen: 19.595 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 85 Resp: 35700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.9 | 16.5 | 49.5 |

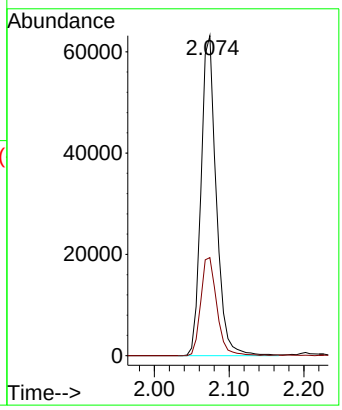





#3
Chloromethane
Concen: 23.334 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 50 Resp: 8942

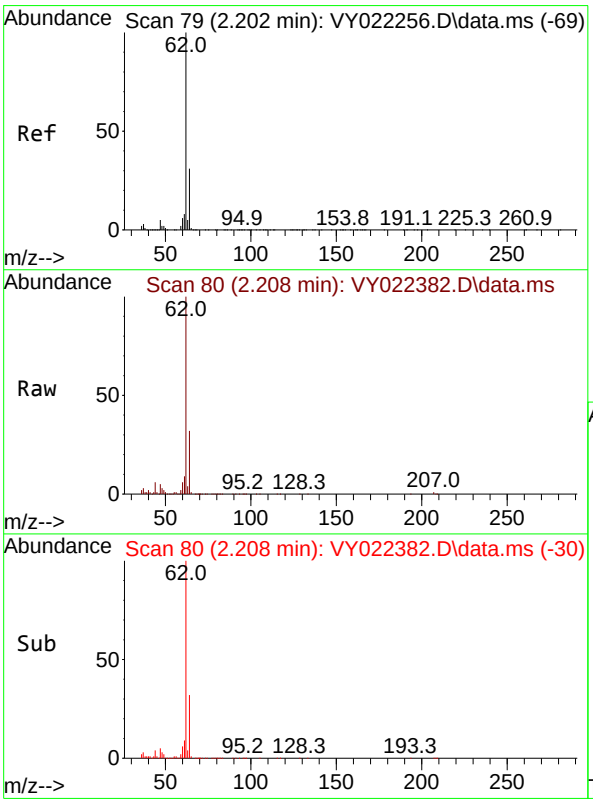
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.6 | 26.5 | 39.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
**APPROVED**

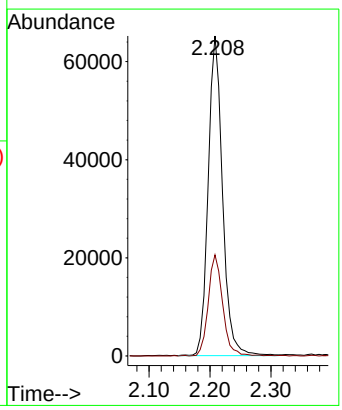
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

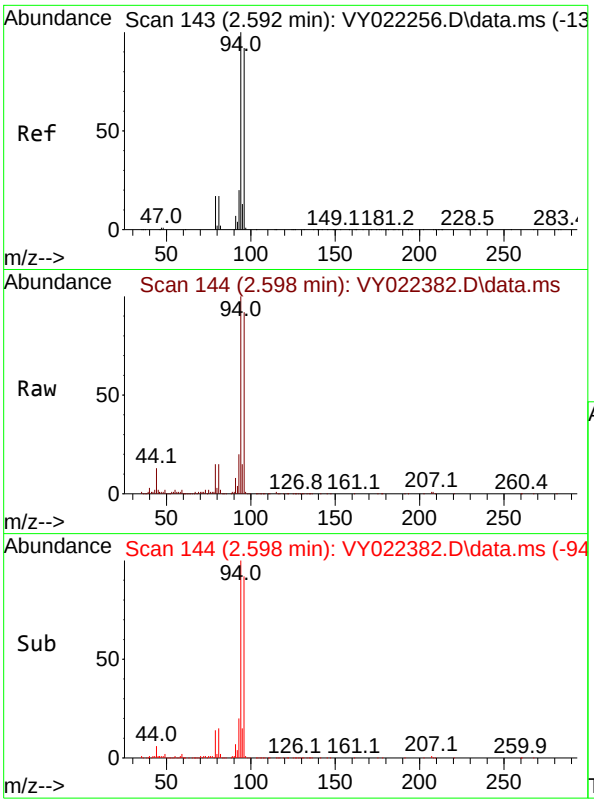



#4
Vinyl Chloride
Concen: 24.892 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 62 Resp: 106584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.6 | 24.5 | 36.7 |

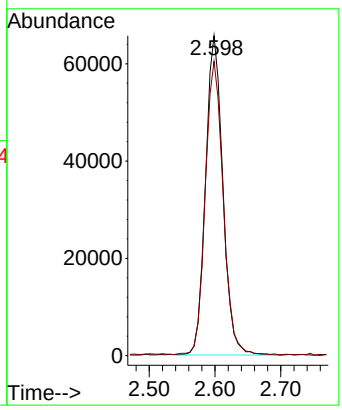





#5
Bromomethane
Concen: 34.496 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 94 Resp: 12024

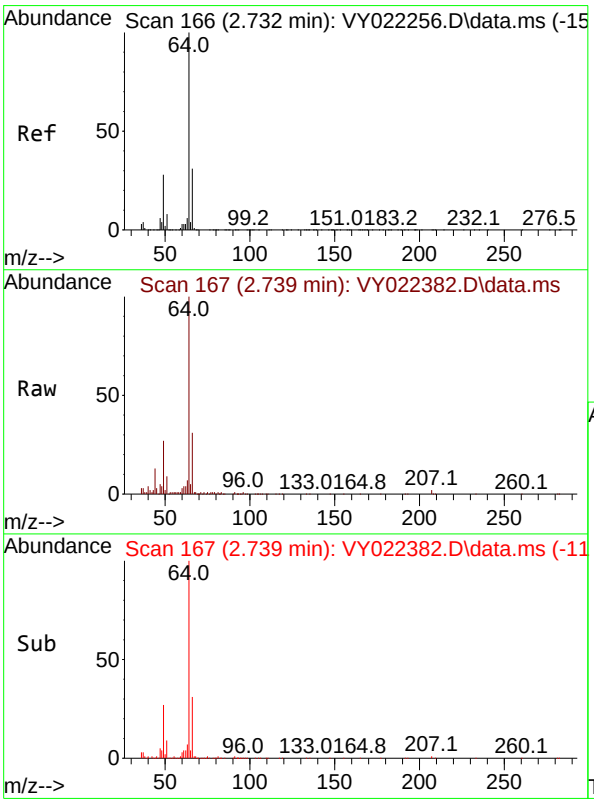
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.8 | 73.4 | 110.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
**APPROVED**

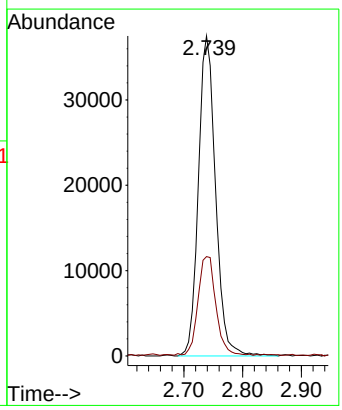
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

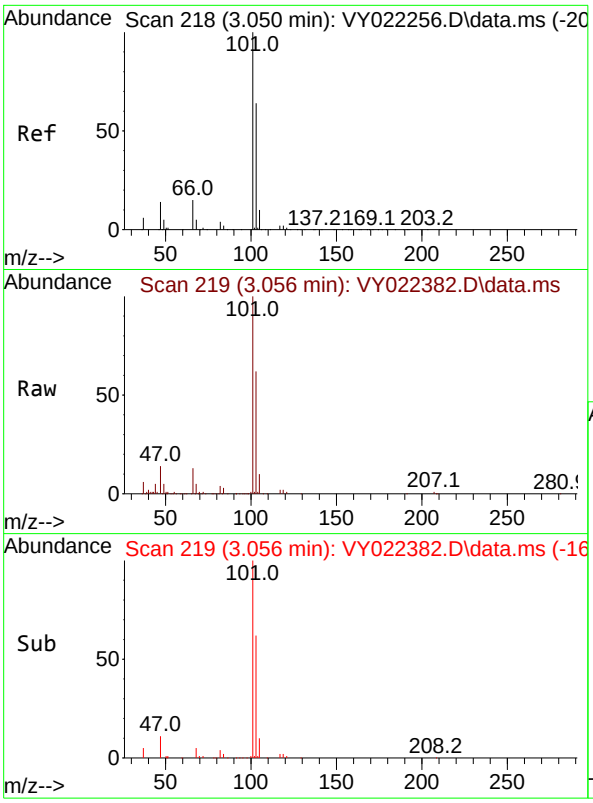



#6
Chloroethane
Concen: 28.516 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 64 Resp: 75963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.7 | 24.8 | 37.2 |

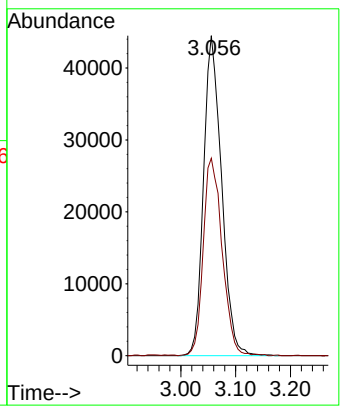





#7
Trichlorofluoromethane
Concen: 23.367 ug/l
RT: 3.056 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:101 Resp: 10130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 61.7 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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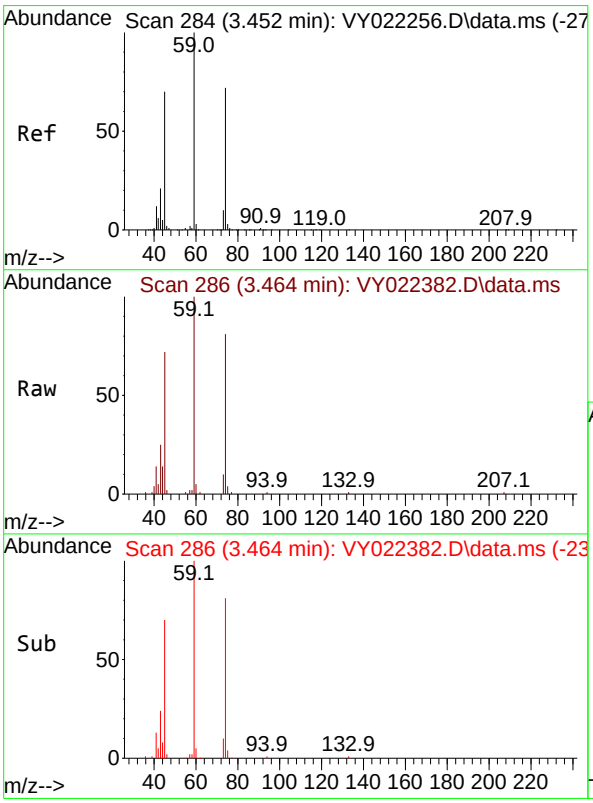
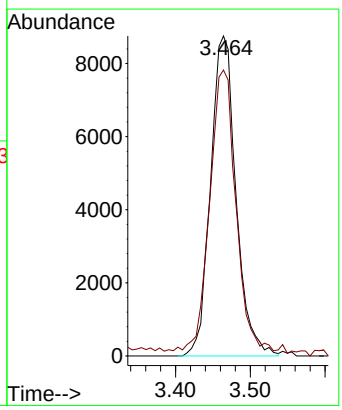
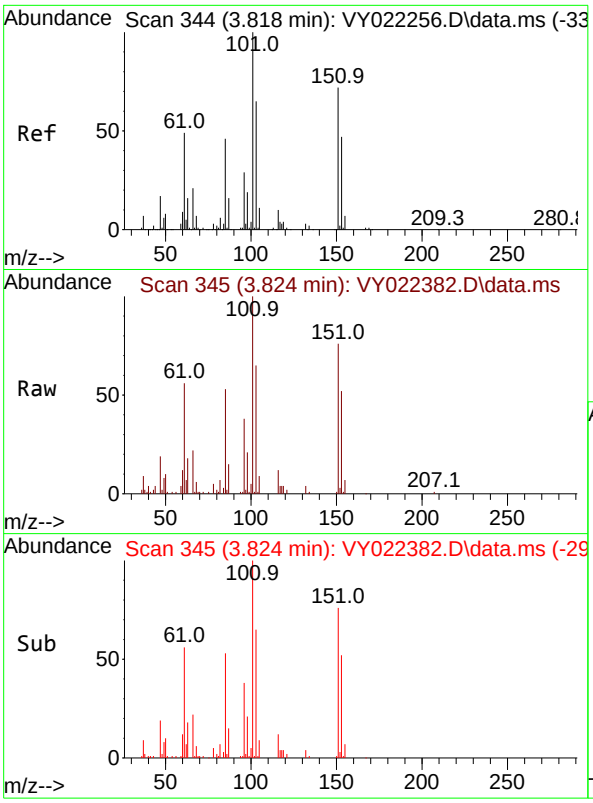



#8
Diethyl Ether
Concen: 19.939 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 74 Resp: 20744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 89.0 | 48.6 | 145.8 |

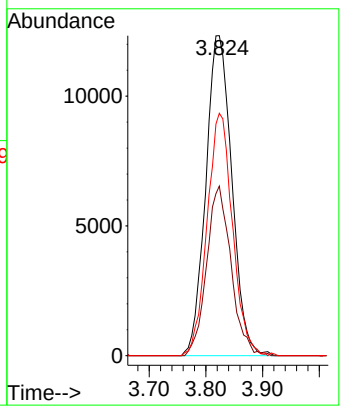





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.923 ug/l
RT: 3.824 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:101 Resp: 3937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 49.6 | 38.6 | 58.0 |
| 151 | 73.6 | 59.7 | 89.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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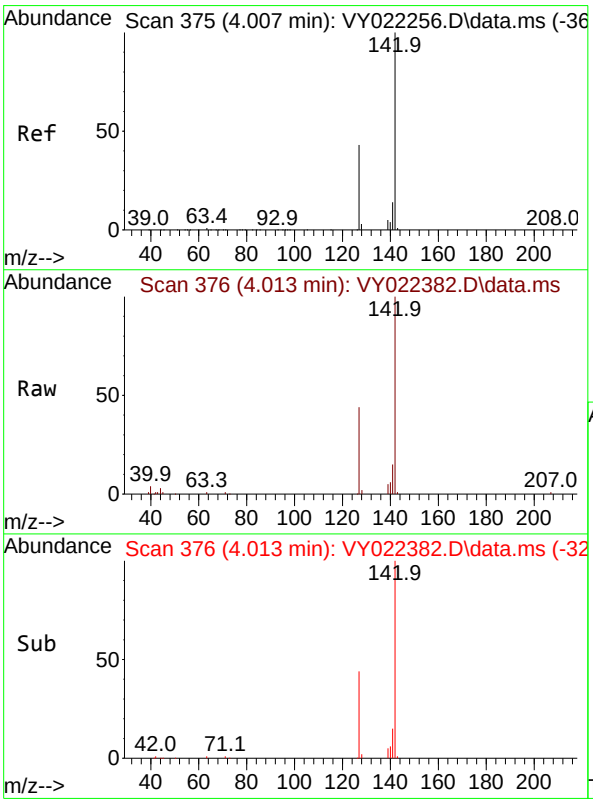
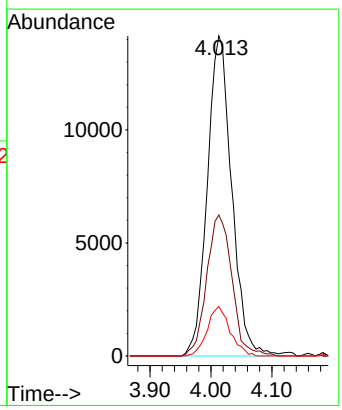
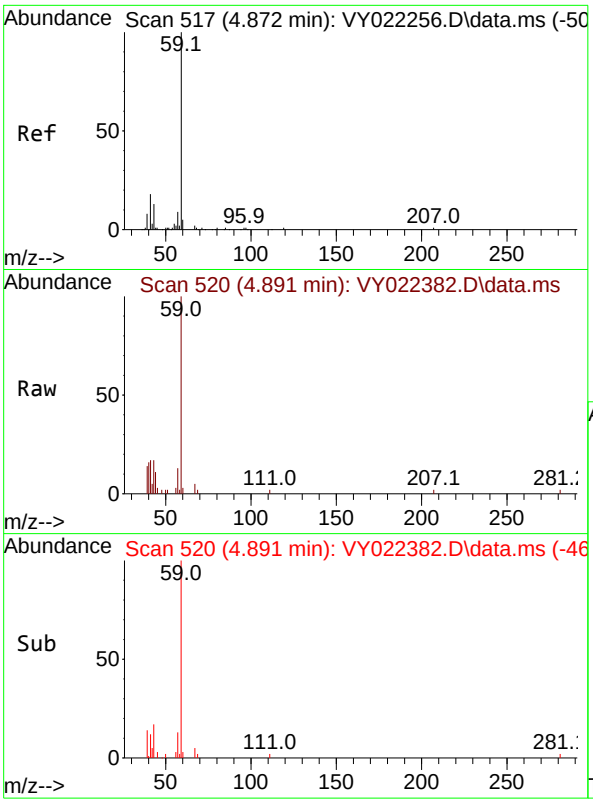



#10
Methyl Iodide
Concen: 18.090 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:142 Resp: 39404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.6 | 35.7 | 53.5 |
| 141 | 14.5 | 11.1 | 16.7 |

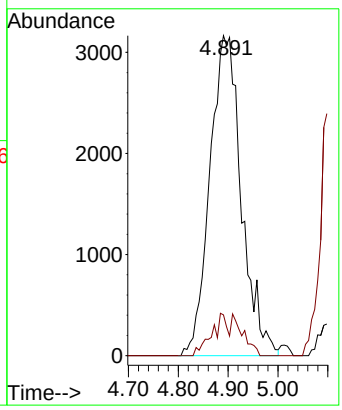





#11
Tert butyl alcohol
Concen: 95.339 ug/l
RT: 4.891 min Scan# 5
Delta R.T. 0.018 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 59 Resp: 1389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 6.7 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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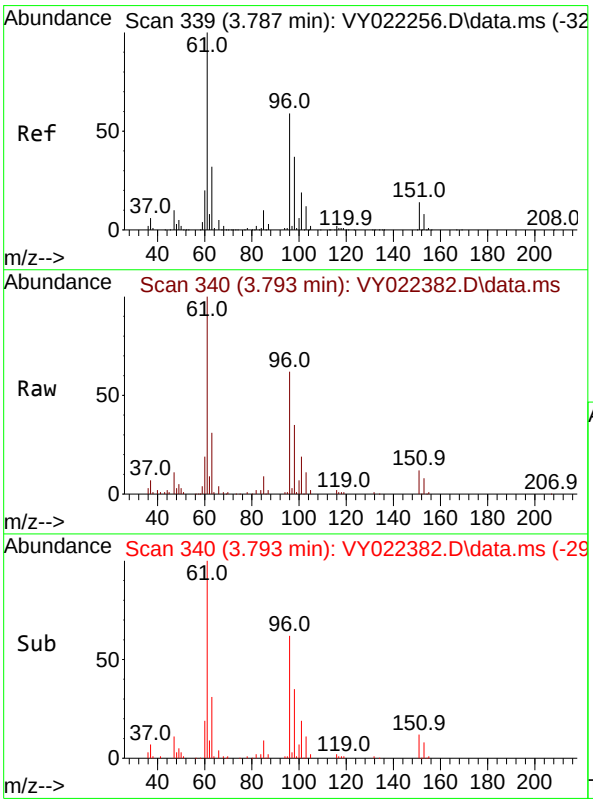
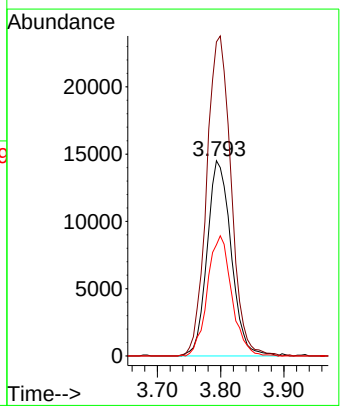
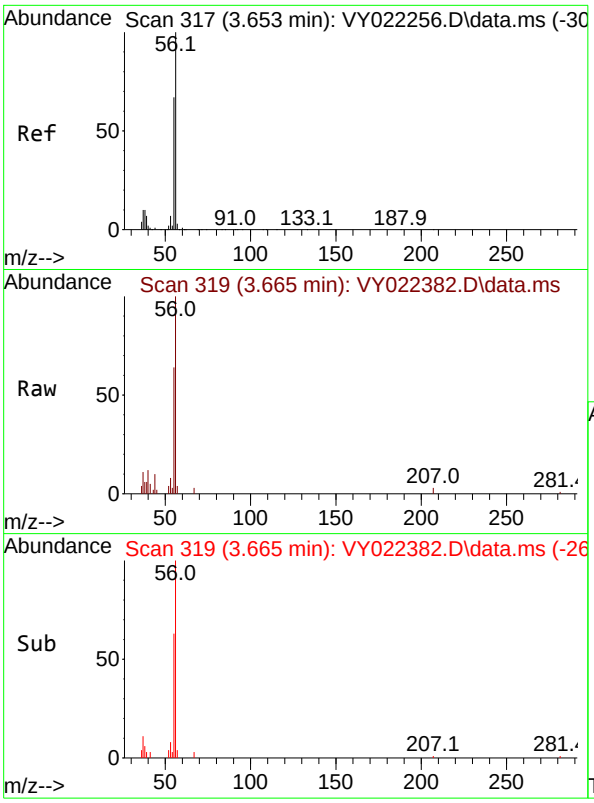



#12
1,1-Dichloroethene
Concen: 20.476 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 96 Resp: 38242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 160.9 | 134.9 | 202.3 |
| 98 | 57.0 | 49.9 | 74.9 |

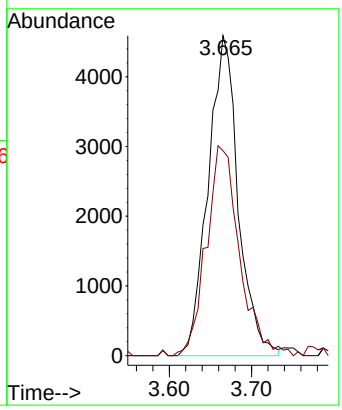





#13
Acrolein
Concen: 54.771 ug/l
RT: 3.665 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 56 Resp: 1166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.3 | 55.6 | 83.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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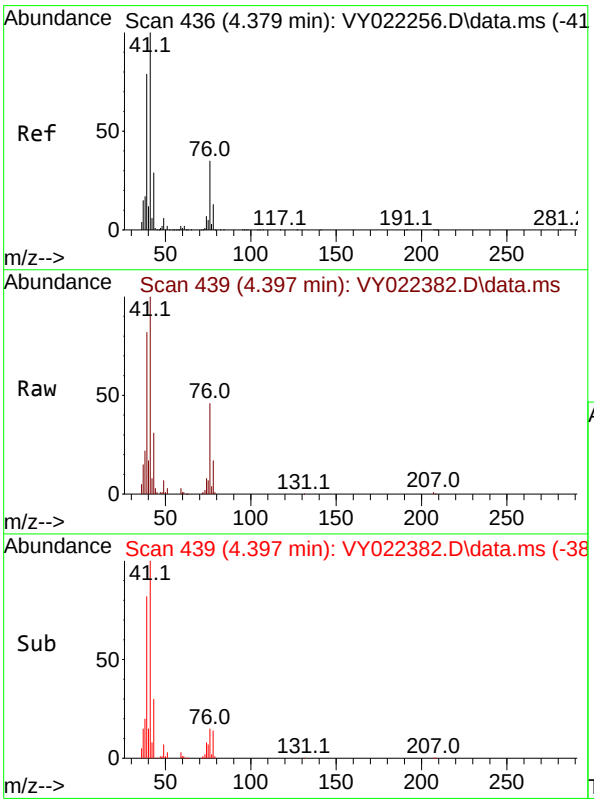
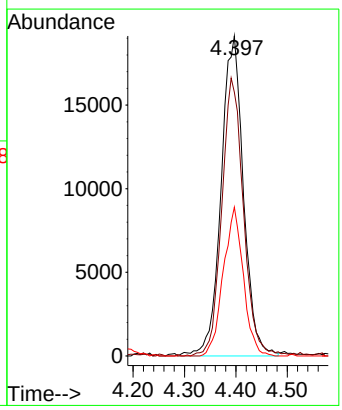
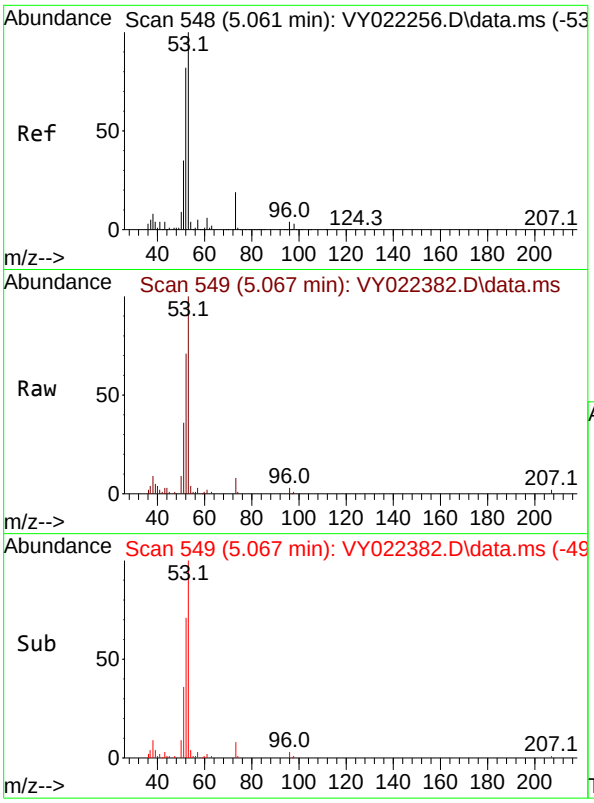



#14
Allyl chloride
Concen: 17.650 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.018 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 41 Resp: 57800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 84.4 | 63.4 | 95.0 |
| 76 | 41.7 | 29.5 | 44.3 |

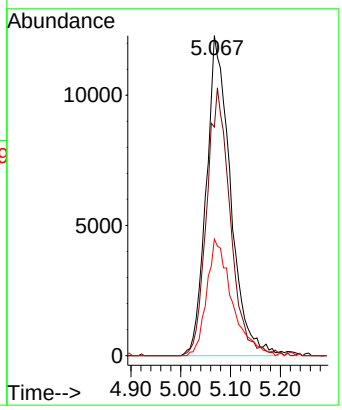





#15
Acrylonitrile
Concen: 96.604 ug/l
RT: 5.067 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 53 Resp: 4141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.2 | 66.1 | 99.1 |
| 51 | 38.2 | 30.0 | 45.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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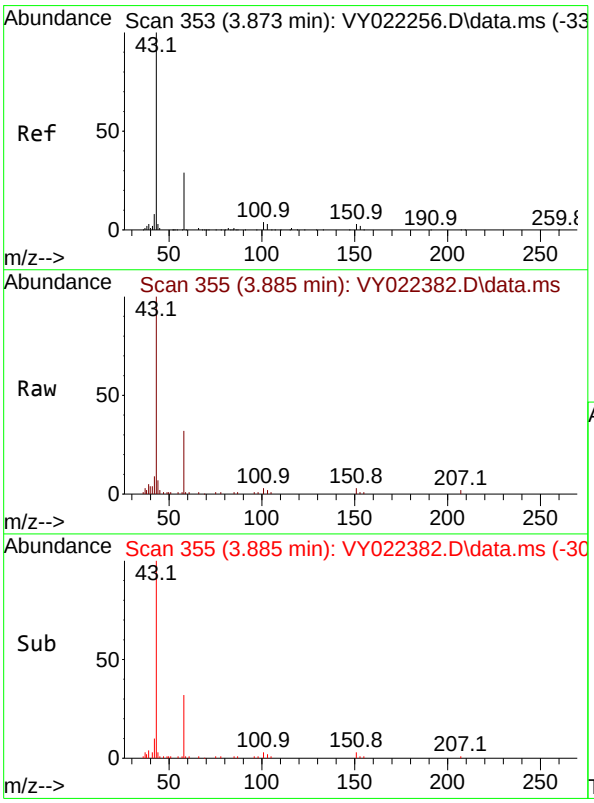
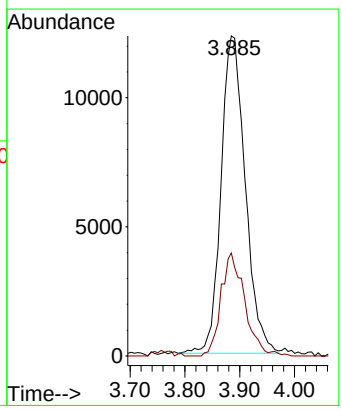
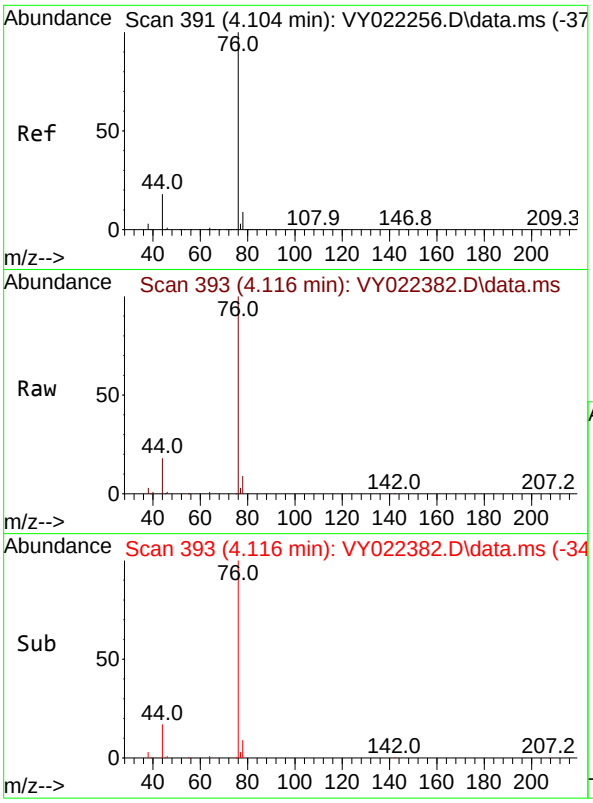



#16
Acetone
Concen: 105.597 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 43 Resp: 37784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.9 | 23.6 | 35.4 |

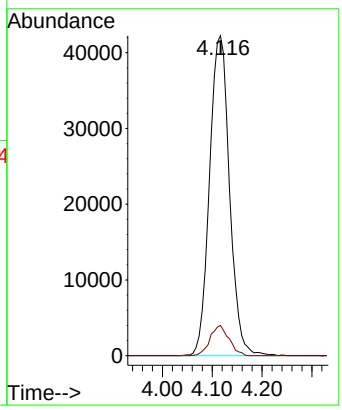





#17
Carbon Disulfide
Concen: 19.304 ug/l
RT: 4.116 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 76 Resp: 11756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.4 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

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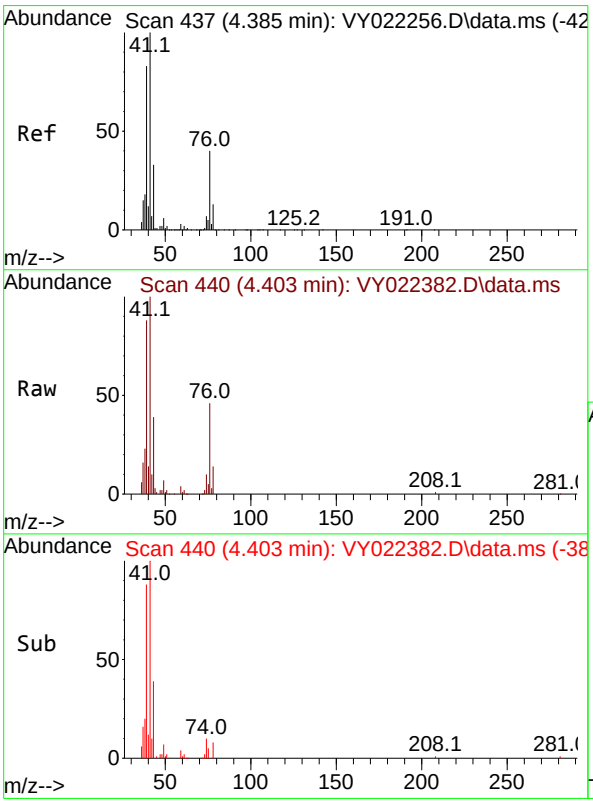
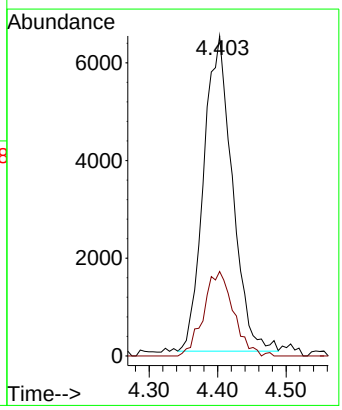
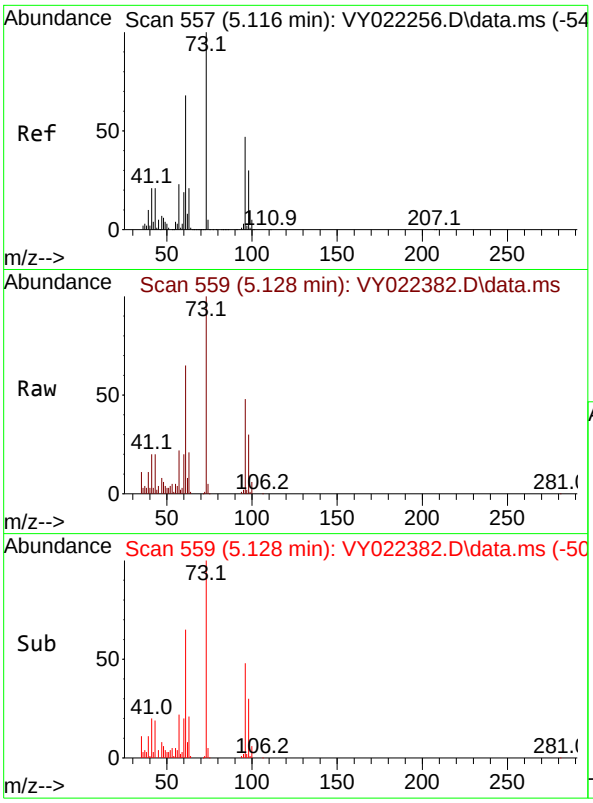



#18
Methyl Acetate
Concen: 16.605 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.018 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 43 Resp: 18733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.9 | 18.2 | 27.4# |

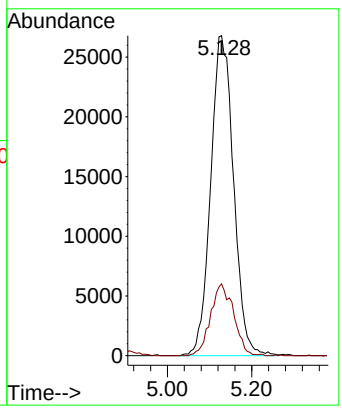





#19
Methyl tert-butyl Ether
Concen: 19.601 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 73 Resp: 10094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.5 | 18.6 | 28.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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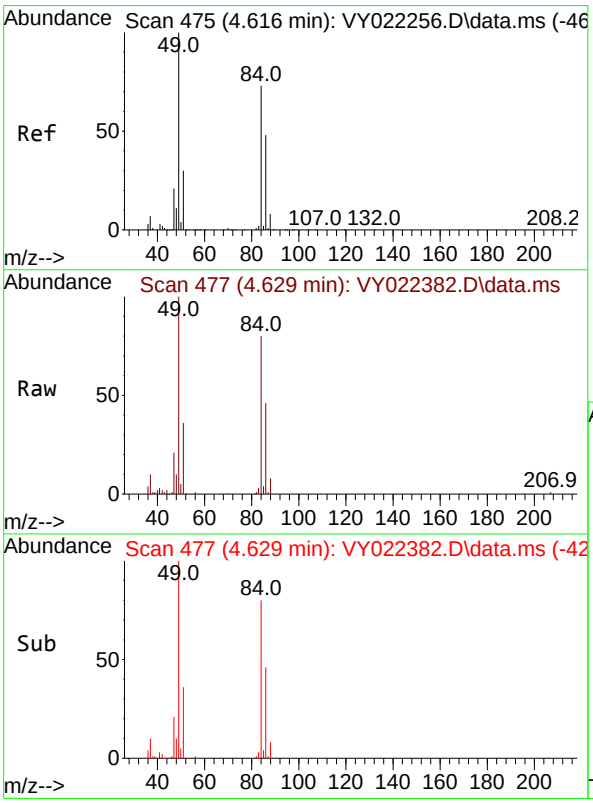
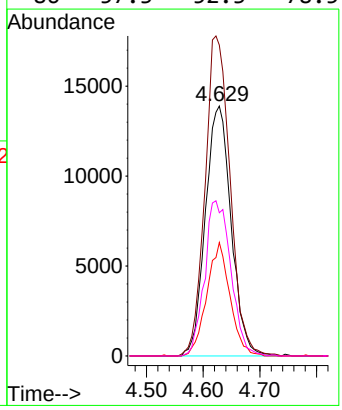
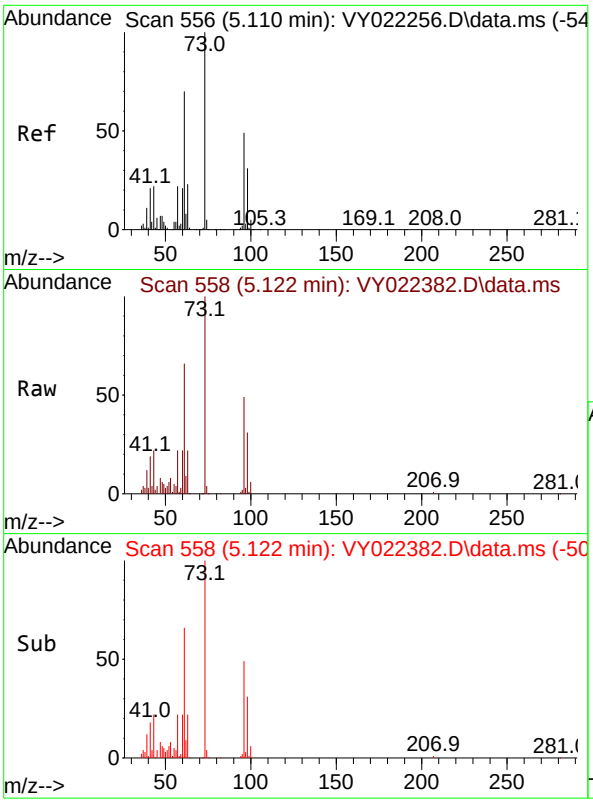



#20
Methylene Chloride
Concen: 18.952 ug/l
RT: 4.629 min Scan# 477
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 84 Resp: 43819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 124.4 | 109.6 | 164.4 |
| 51 | 45.3 | 32.4 | 48.6 |
| 86 | 57.3 | 52.3 | 78.5 |

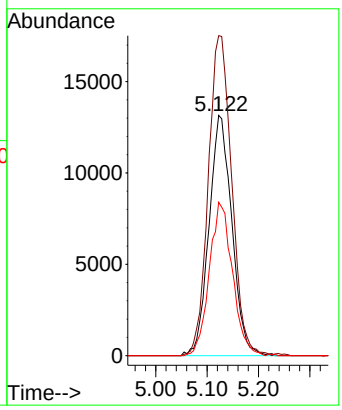





#21
trans-1,2-Dichloroethene
Concen: 19.717 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 96 Resp: 4064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.2 | 113.4 | 170.0 |
| 98 | 63.9 | 50.9 | 76.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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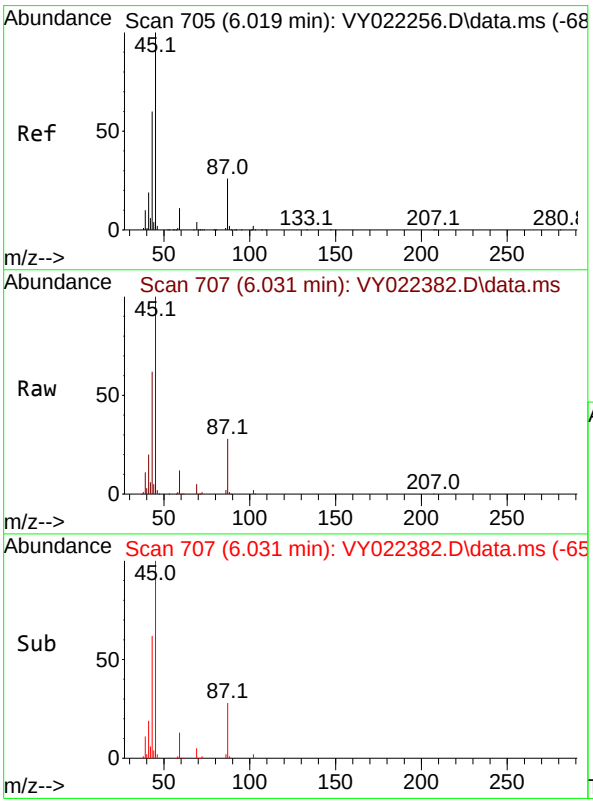
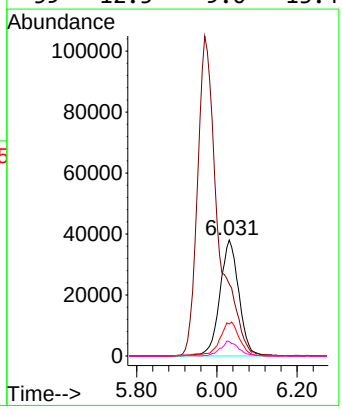
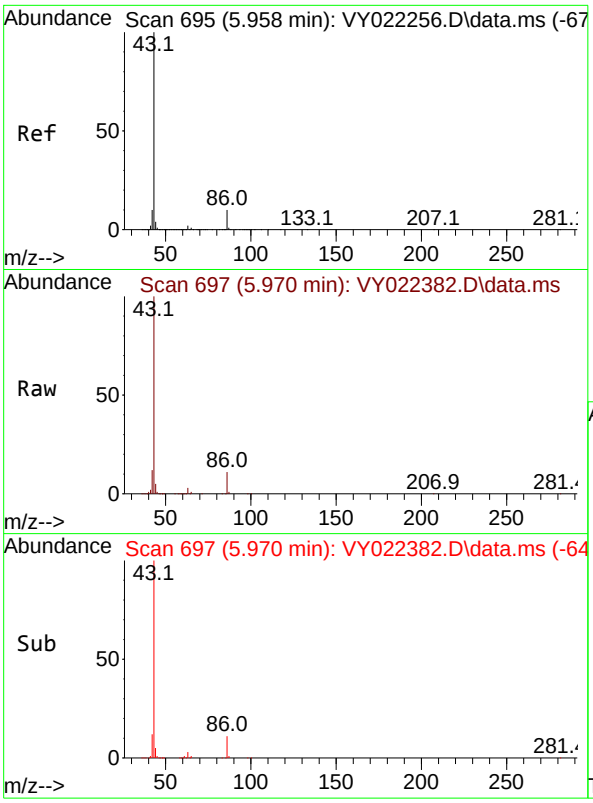



#22
Diisopropyl ether
Concen: 18.055 ug/l
RT: 6.031 min Scan# 707
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 45 Resp: 124864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 61.7 | 48.2 | 72.2 |
| 87 | 27.6 | 21.4 | 32.0 |
| 59 | 12.5 | 9.0 | 13.4 |

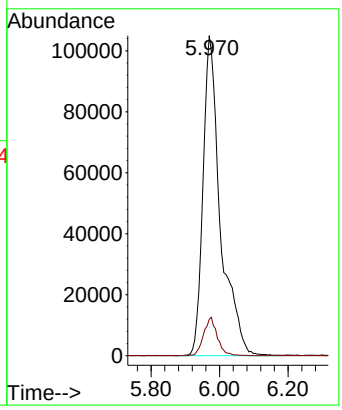





#23
Vinyl Acetate
Concen: 88.742 ug/l
RT: 5.970 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 43 Resp: 37076

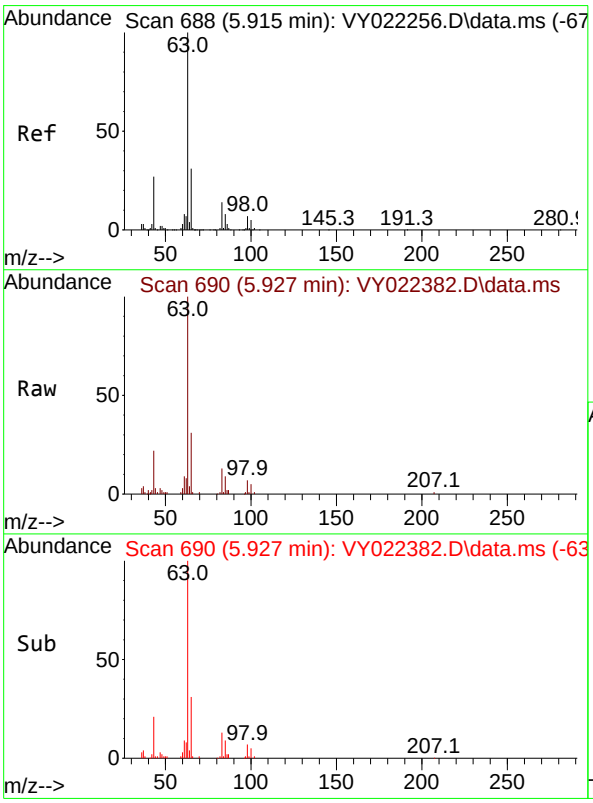
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.3 | 7.8 | 11.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
**APPROVED**

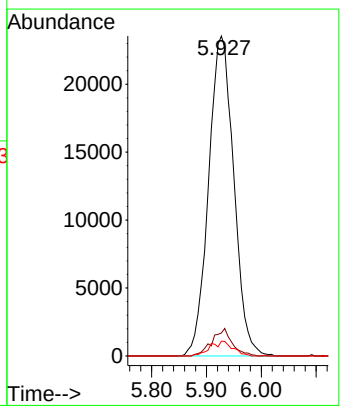
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

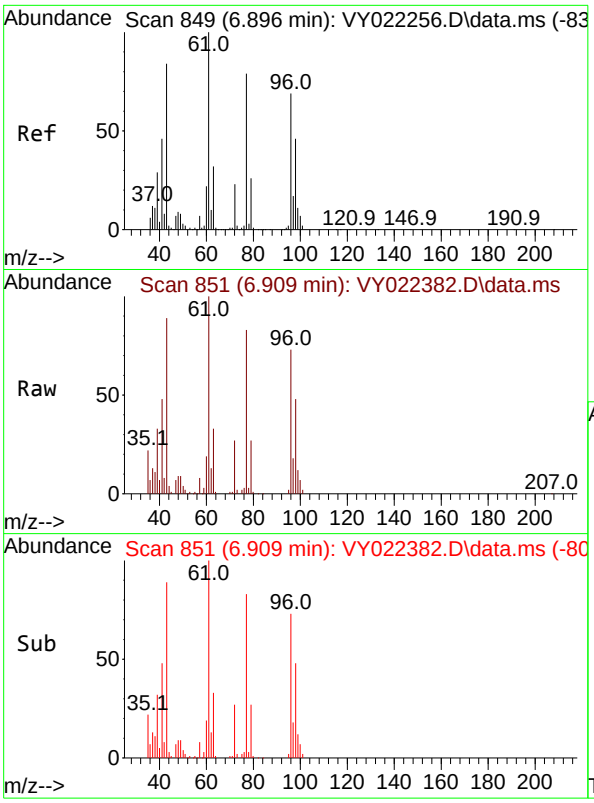



#24
1,1-Dichloroethane
Concen: 19.421 ug/l
RT: 5.927 min Scan# 690
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 63 Resp: 75035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.5 | 10.5 |
| 100 | 4.6 | 2.4 | 7.2 |

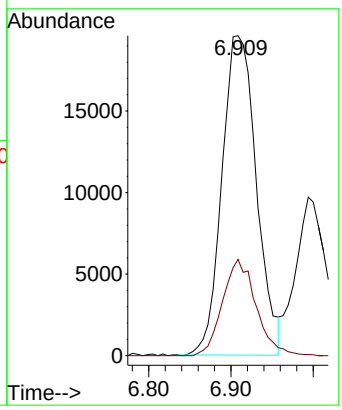





#25
2-Butanone
Concen: 95.421 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 43 Resp: 5711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.2 | 22.1 | 33.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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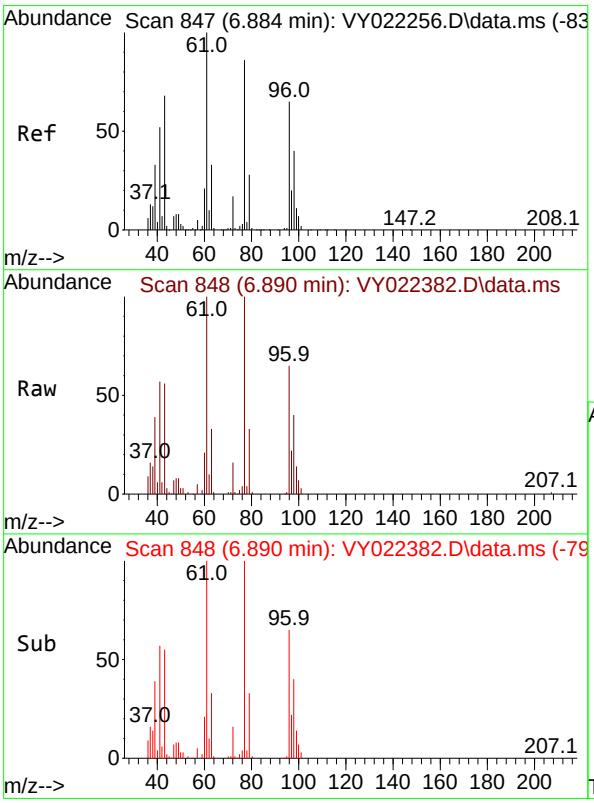
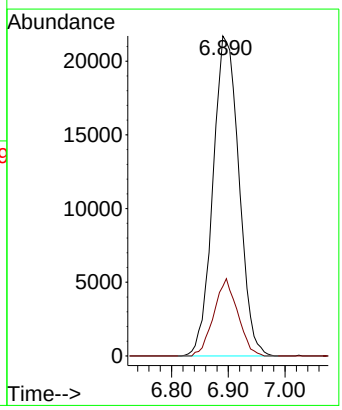
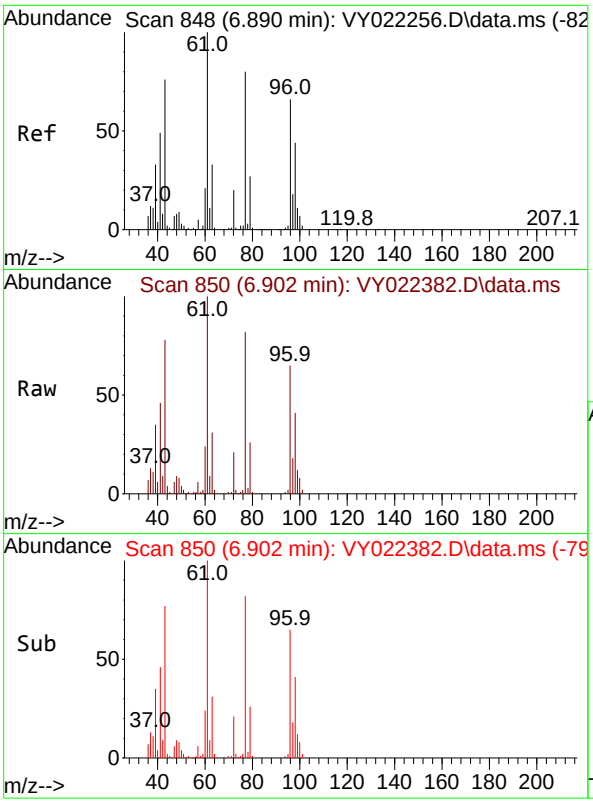



#26
2,2-Dichloropropane
Concen: 20.103 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 77 Resp: 69084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.3 | 11.2 | 33.5 |

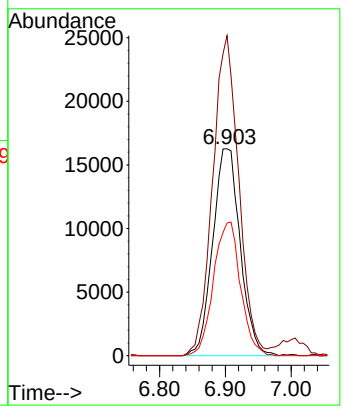





#27
cis-1,2-Dichloroethene
Concen: 19.861 ug/l
RT: 6.902 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 96 Resp: 4724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.3 | 0.0 | 302.6 |
| 98 | 63.4 | 0.0 | 128.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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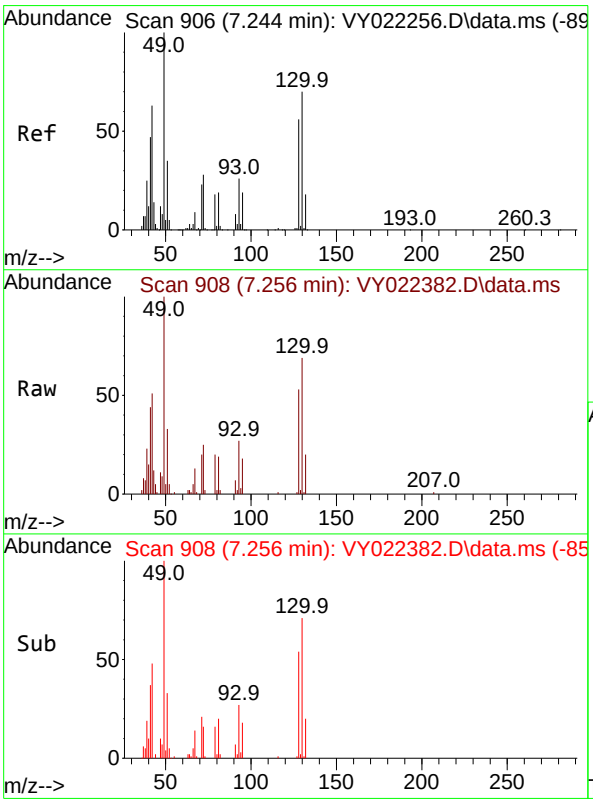
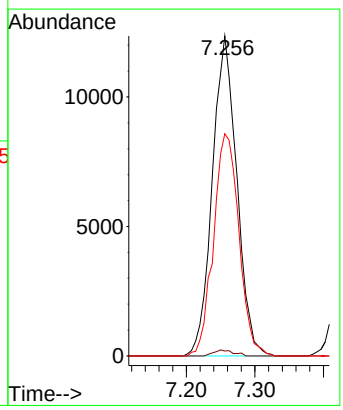
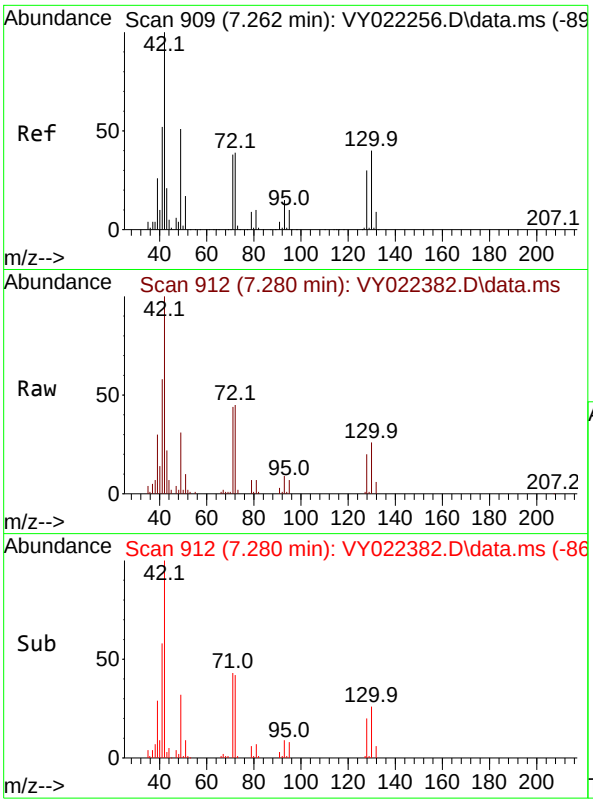



#28
Bromochloromethane
Concen: 18.573 ug/l
RT: 7.256 min Scan# 908
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 49 Resp: 30609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.5 | 0.0 | 3.6 |
| 130 | 72.1 | 54.7 | 82.1 |

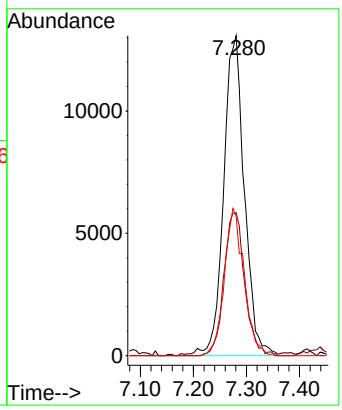





#29
Tetrahydrofuran
Concen: 92.280 ug/l
RT: 7.280 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 42 Resp: 3553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 44.5 | 33.8 | 50.6 |
| 71 | 44.0 | 31.5 | 47.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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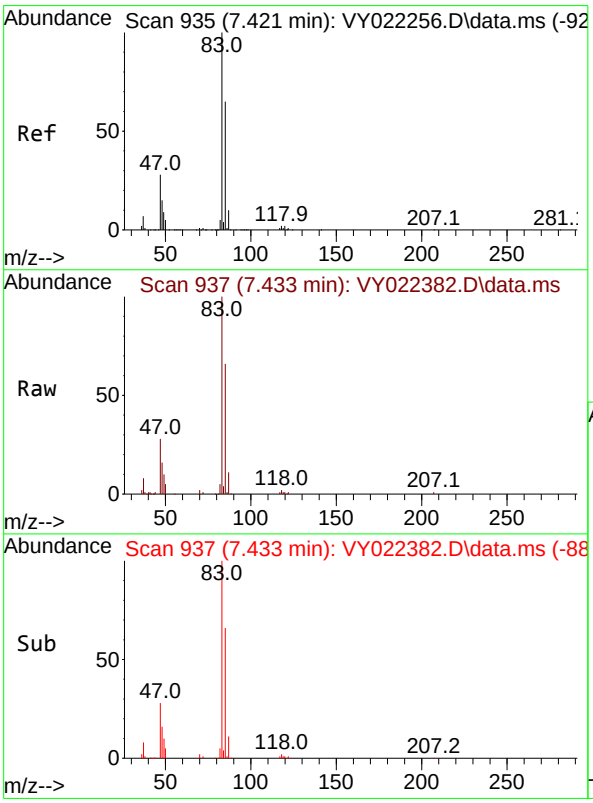
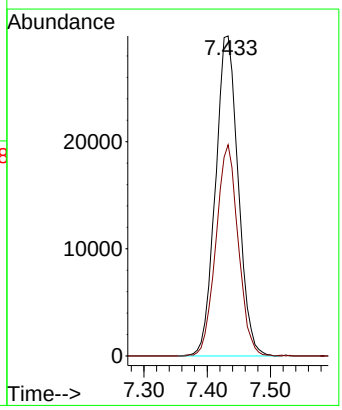
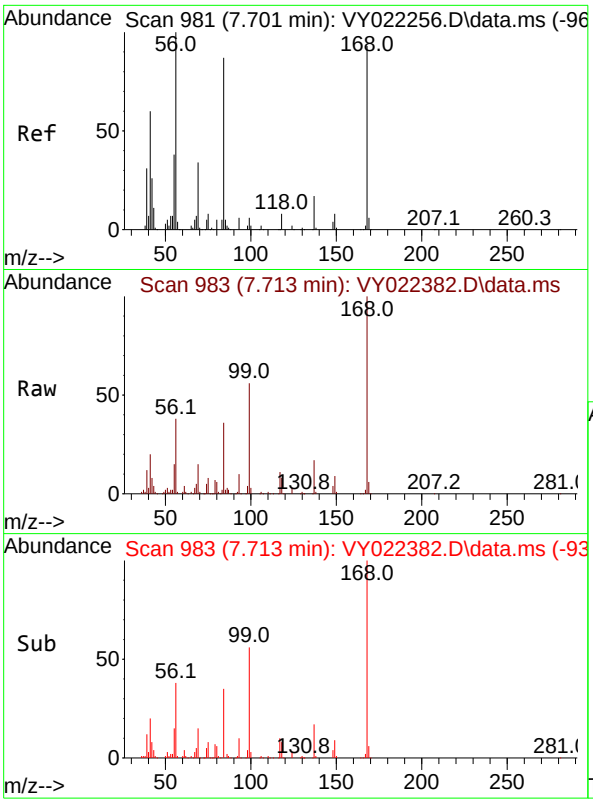



#30
Chloroform
Concen: 20.111 ug/l
RT: 7.433 min Scan# 937
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 83 Resp: 74530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.0 | 51.8 | 77.8 |






#31
Cyclohexane
Concen: 18.653 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 56 Resp: 7200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 39.5 | 27.4 | 41.2 |
| 84 | 91.1 | 70.0 | 105.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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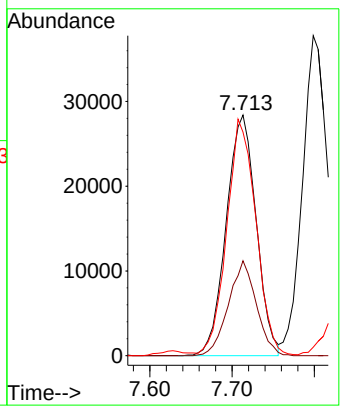
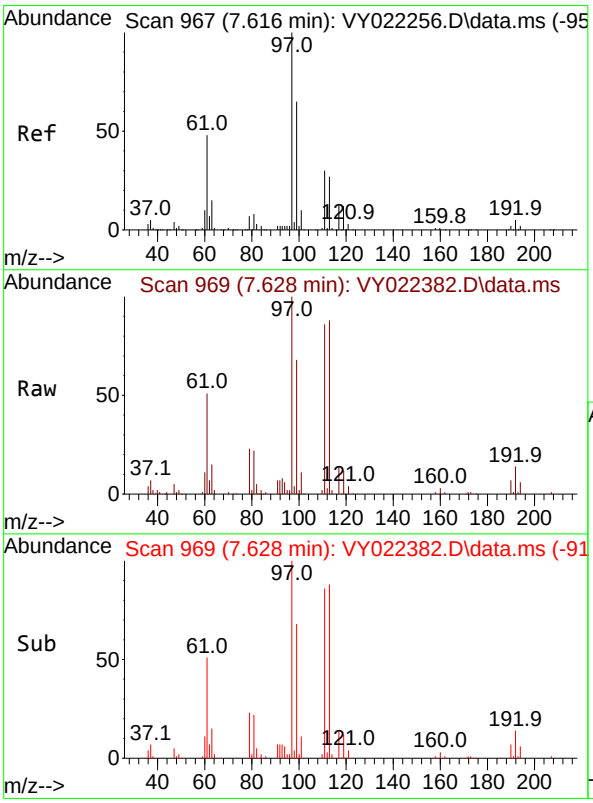
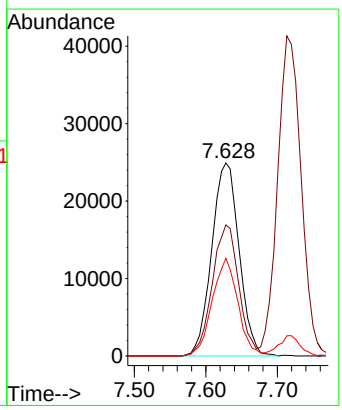


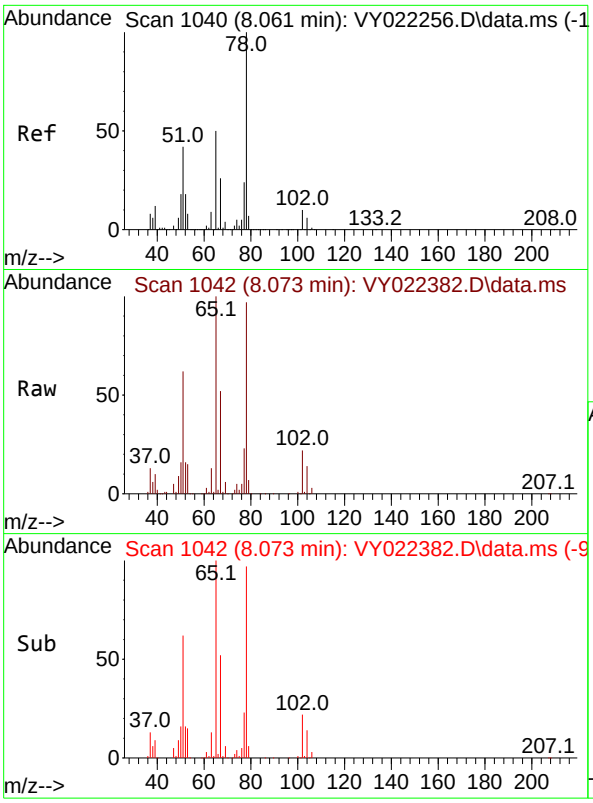




#32
1,1,1-Trichloroethane
Concen: 19.472 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 97 Resp: 66206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.5 | 51.4 | 77.0 |
| 61 | 47.2 | 38.1 | 57.1 |

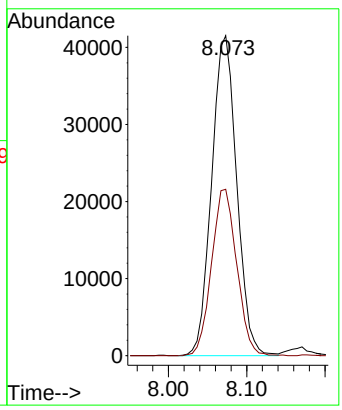





#33
1,2-Dichloroethane-d4
Concen: 48.376 ug/l
RT: 8.073 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 65 Resp: 9231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.3 | 0.0 | 104.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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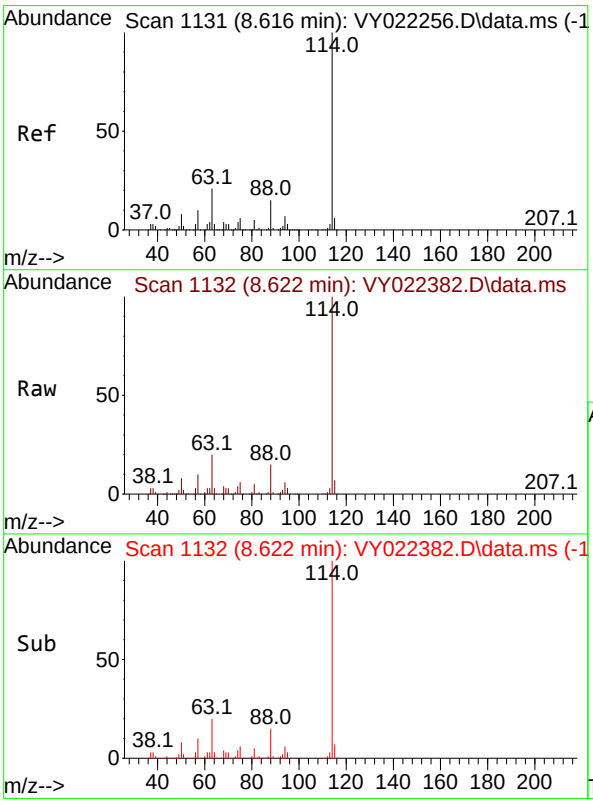
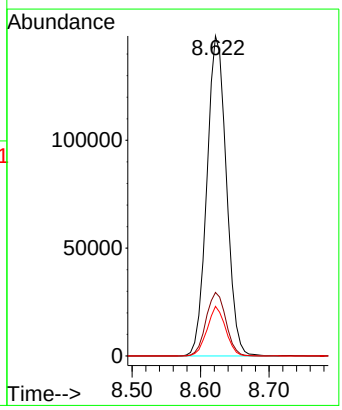
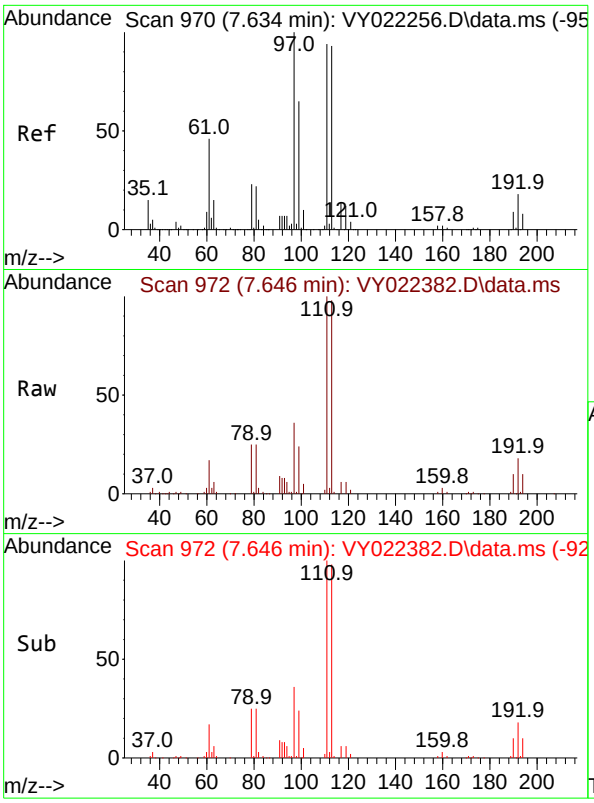



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:114 Resp: 293942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 41.0 |
| 88 | 15.5 | 0.0 | 29.4 |

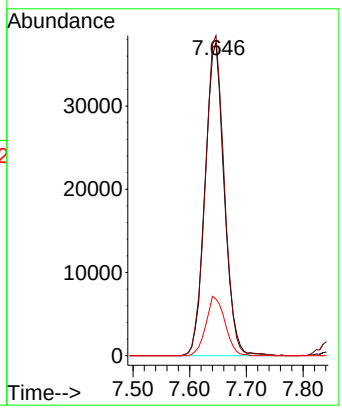





#35
Dibromofluoromethane
Concen: 50.291 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:113 Resp: 8823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.9 | 82.6 | 123.8 |
| 192 | 18.8 | 15.2 | 22.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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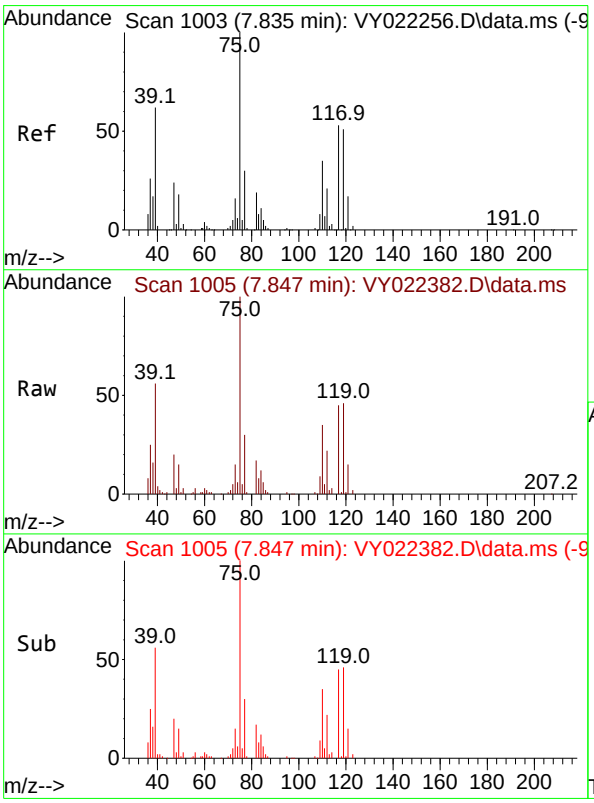
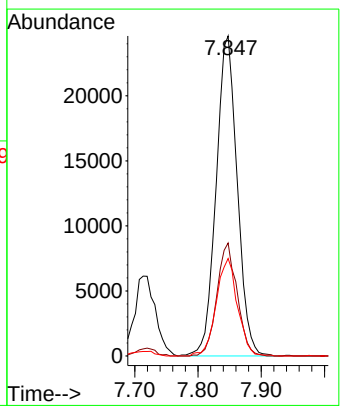
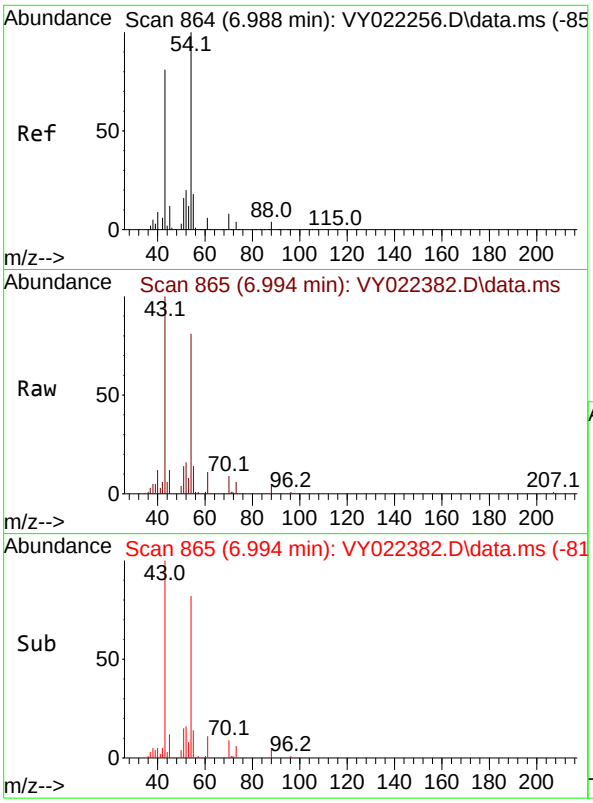



#36
1,1-Dichloropropene
Concen: 19.702 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 75 Resp: 56933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.8 | 16.6 | 49.8 |
| 77 | 30.6 | 24.6 | 37.0 |

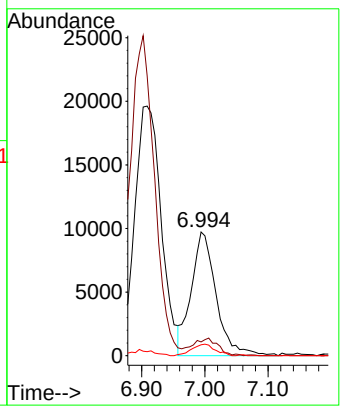





#37
Ethyl Acetate
Concen: 19.234 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 43 Resp: 2674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.4 | 10.2 | 15.2 |
| 70 | 8.7 | 7.6 | 11.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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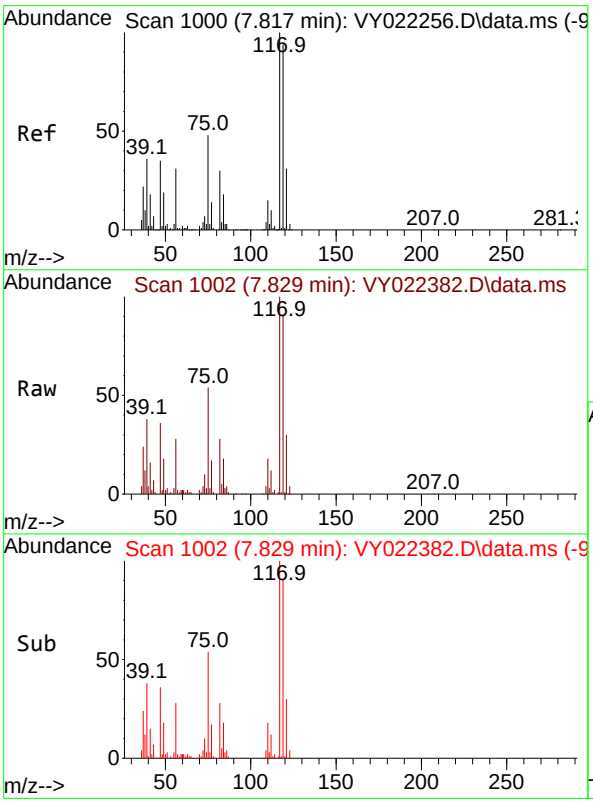
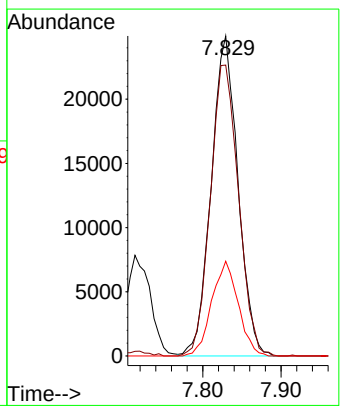
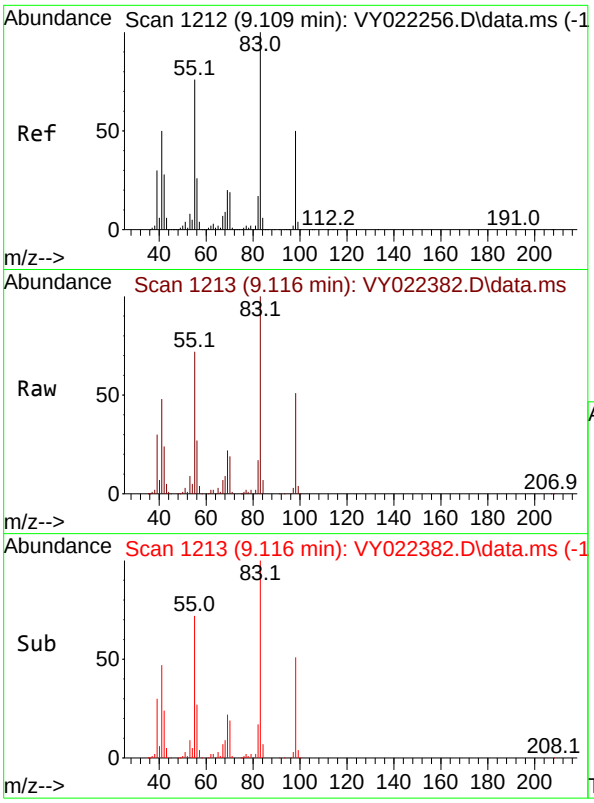



#38
Carbon Tetrachloride
Concen: 19.771 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:117 Resp: 59138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 90.9 | 75.3 | 112.9 |
| 121 | 29.6 | 24.7 | 37.1 |

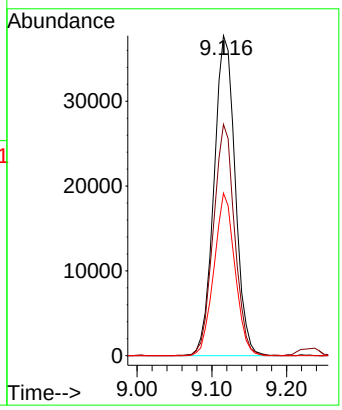





#39
Methylcyclohexane
Concen: 19.151 ug/l
RT: 9.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 83 Resp: 7434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.2 | 60.6 | 90.8 |
| 98 | 50.7 | 40.0 | 60.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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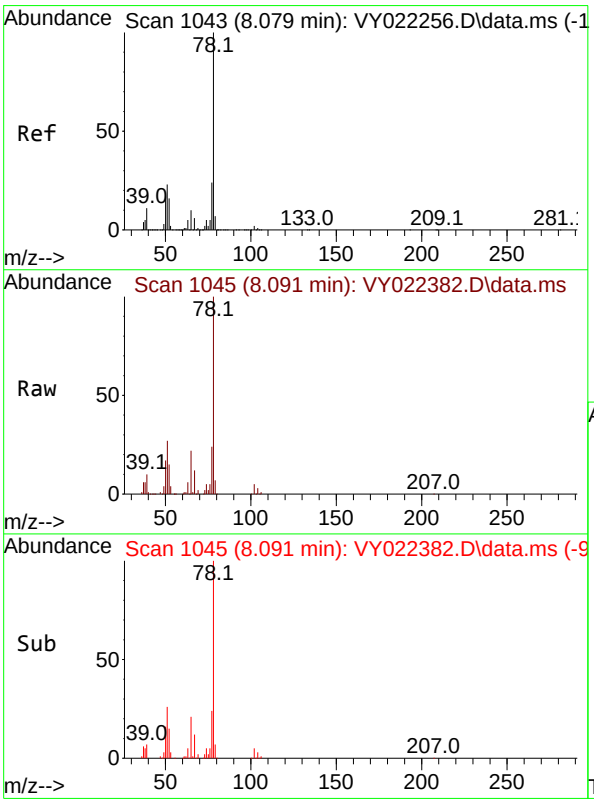
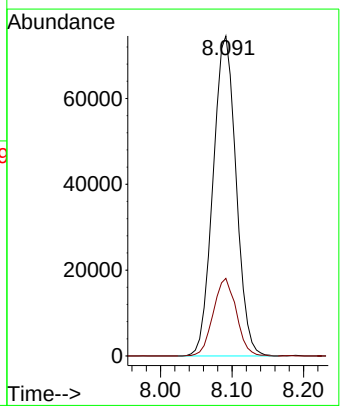
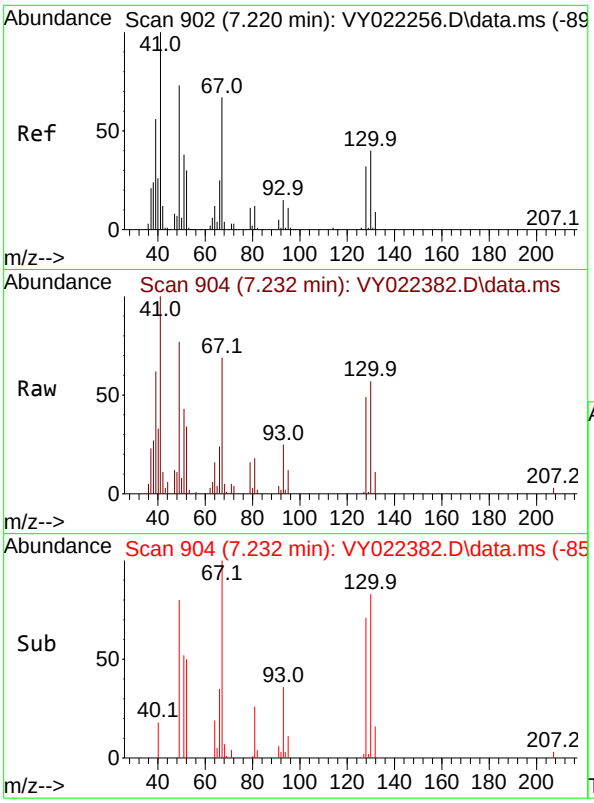



#40
Benzene
Concen: 19.508 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 78 Resp: 167114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.3 | 18.9 | 28.3 |

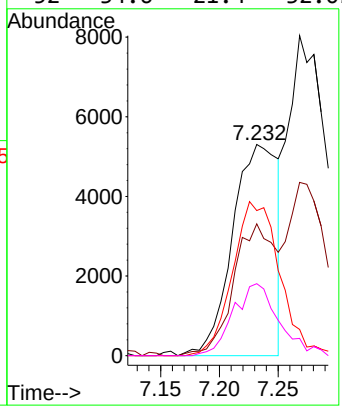





#41
Methacrylonitrile
Concen: 15.333 ug/l
RT: 7.232 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 41 Resp: 1414

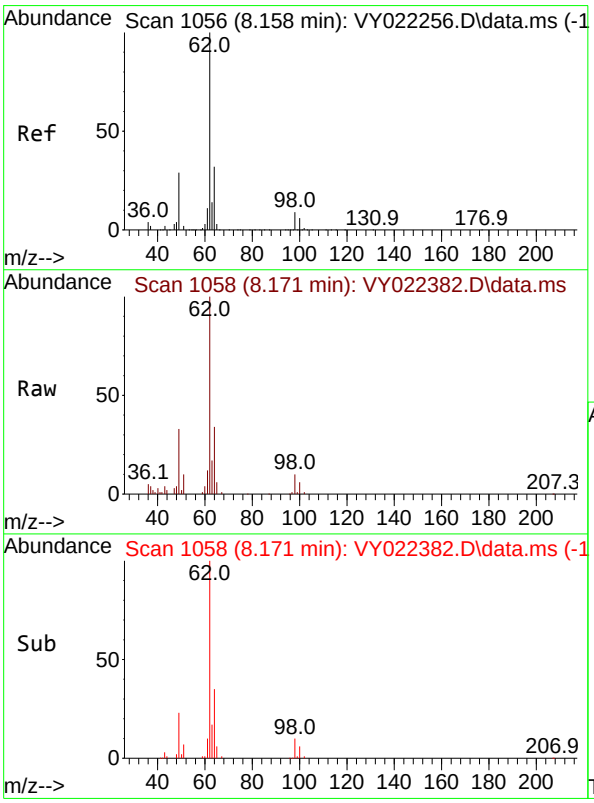
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.8 | 39.1 | 58.7 |
| 67 | 76.4 | 47.1 | 70.7# |
| 52 | 34.6 | 21.4 | 32.0# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
**APPROVED**

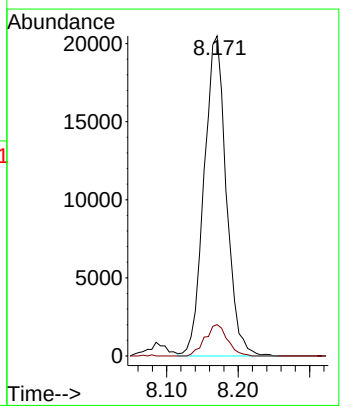
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

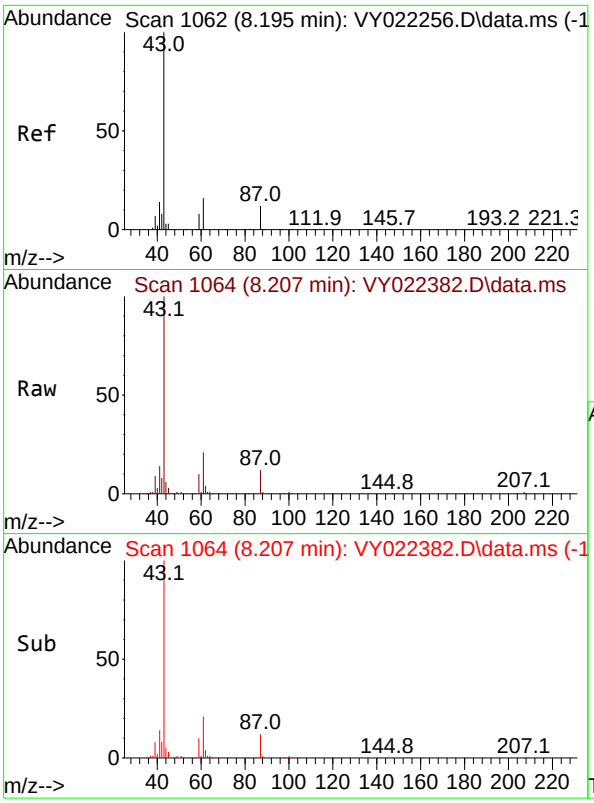



#42
1,2-Dichloroethane
Concen: 19.081 ug/l
RT: 8.171 min Scan# 1058
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 62 Resp: 44204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.9 | 0.0 | 18.4 |

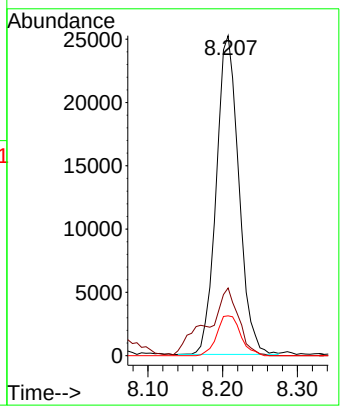





#43
Isopropyl Acetate
Concen: 17.427 ug/l
RT: 8.207 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 43 Resp: 5284

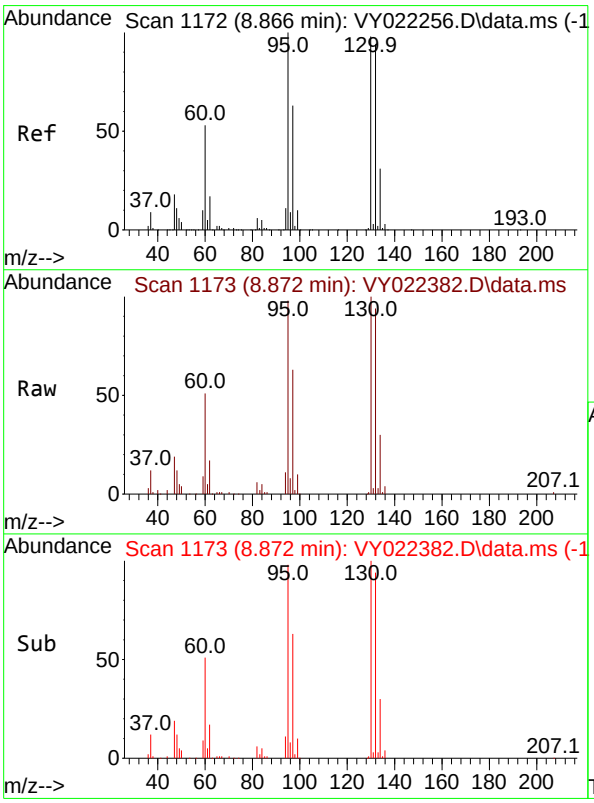
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 19.7 | 15.1 | 22.7 |
| 87 | 13.2 | 9.7 | 14.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
**APPROVED**

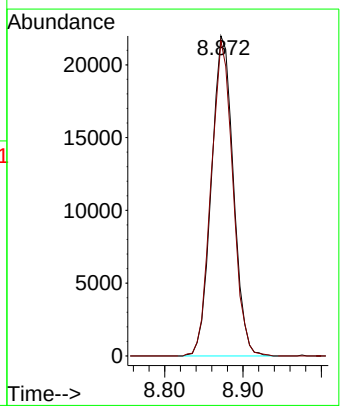
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

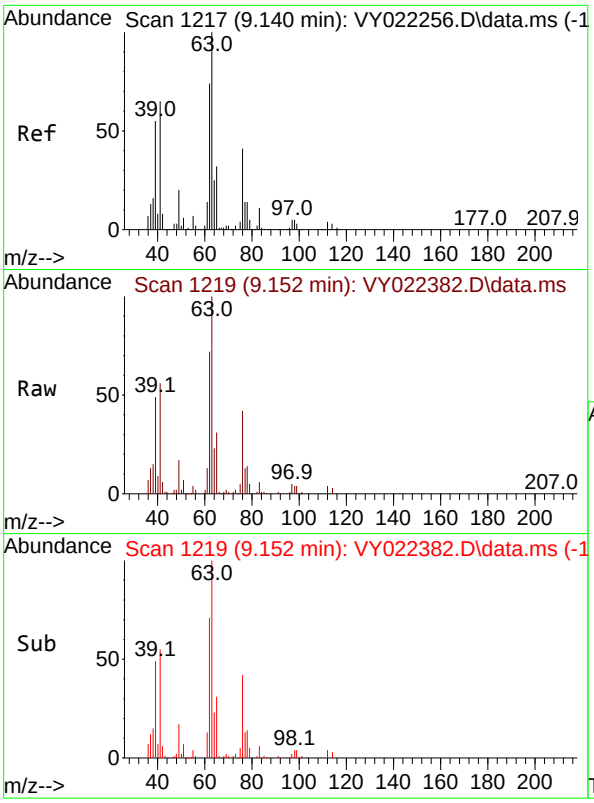



#44
Trichloroethene
Concen: 20.109 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:130 Resp: 42833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.4 | 0.0 | 204.8 |

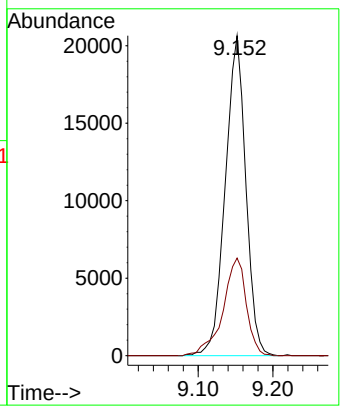





#45
1,2-Dichloropropane
Concen: 19.081 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 63 Resp: 3940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.5 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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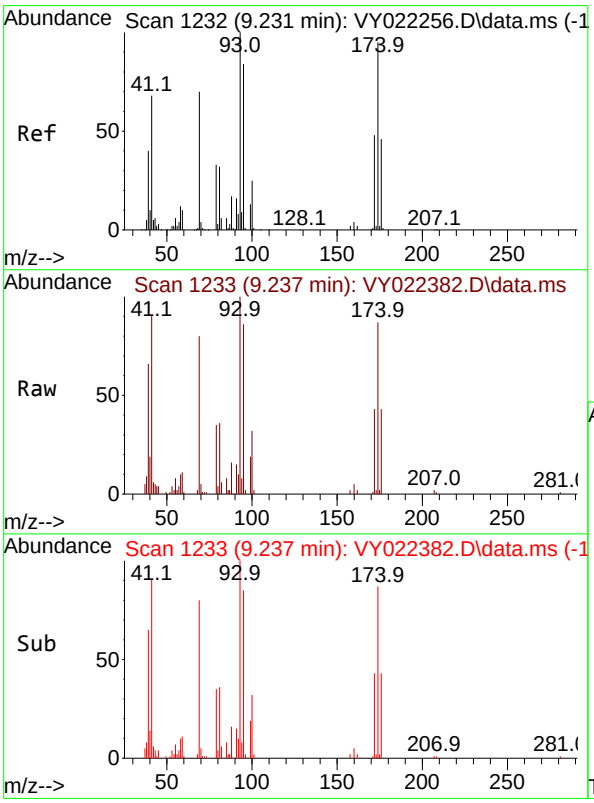
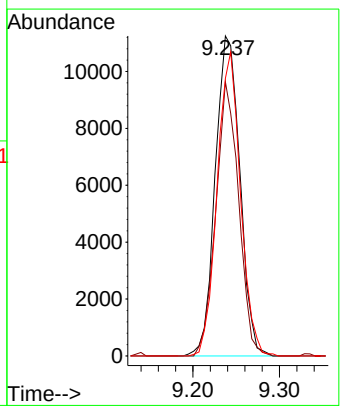
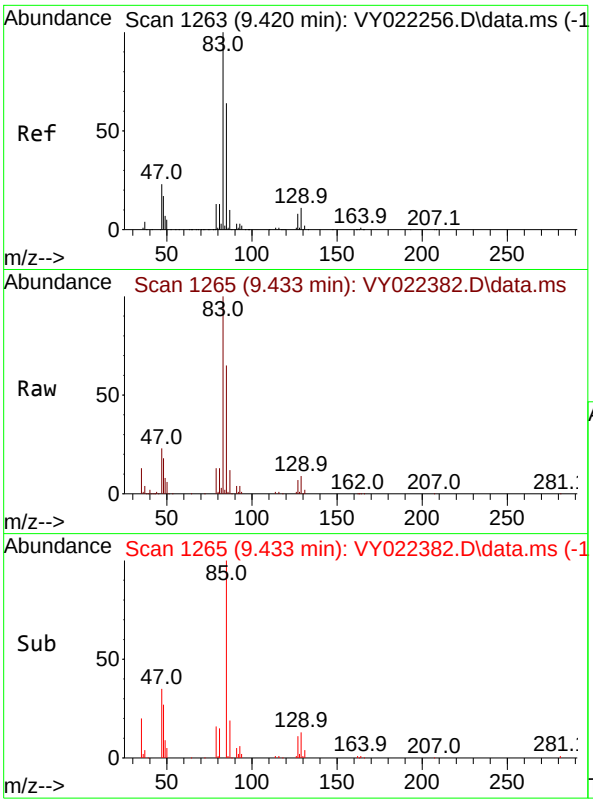



#46
Dibromomethane
Concen: 19.905 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 93 Resp: 22173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 79.5 | 65.2 | 97.8 |
| 174 | 90.2 | 74.3 | 111.5 |

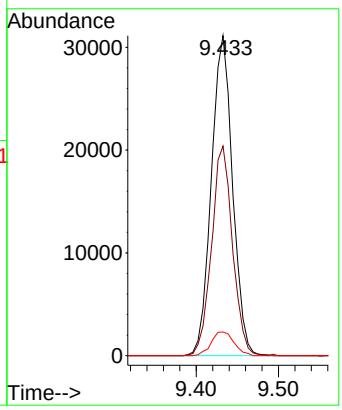





#47
Bromodichloromethane
Concen: 19.317 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 83 Resp: 5582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.5 | 51.1 | 76.7 |
| 127 | 7.4 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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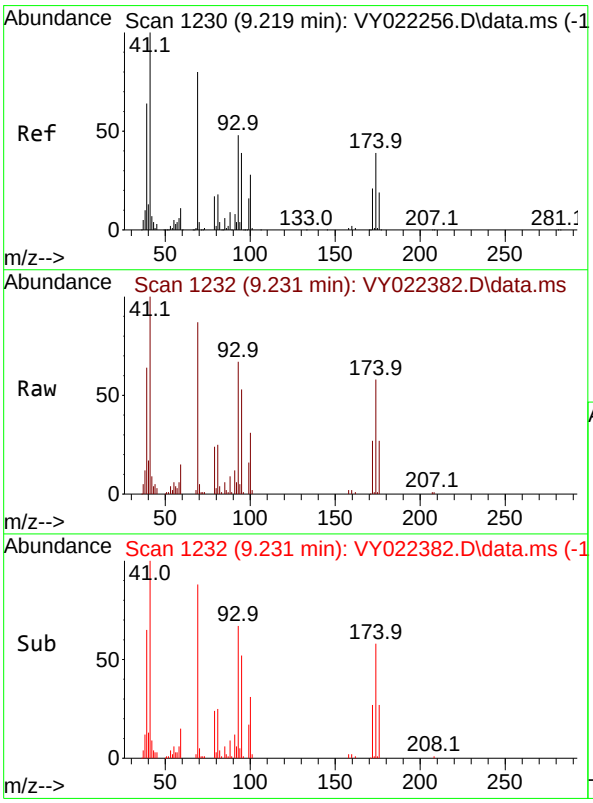
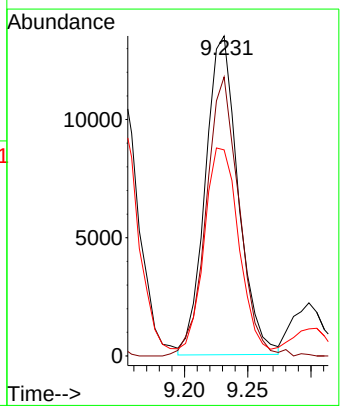
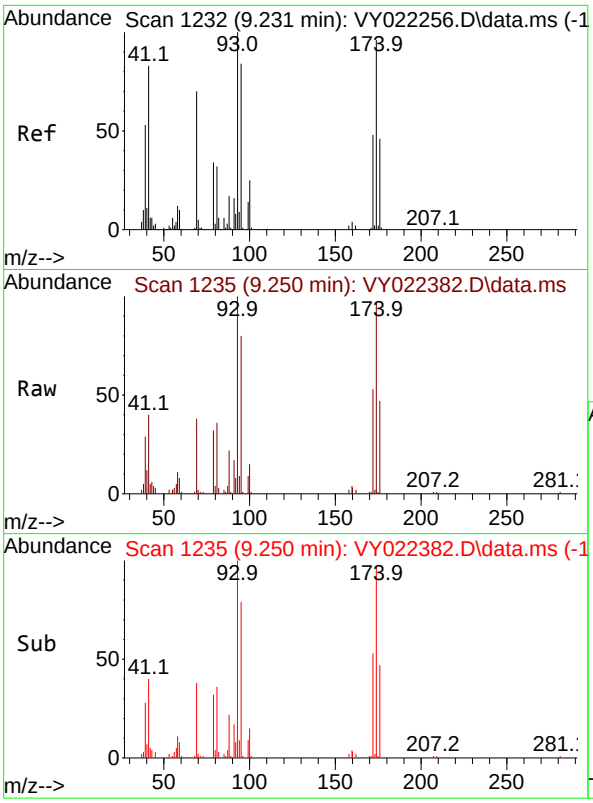



#48
Methyl methacrylate
Concen: 17.203 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 41 Resp: 24395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 87.5 | 63.5 | 95.3 |
| 39 | 65.3 | 50.8 | 76.2 |






#49
1,4-Dioxane
Concen: 398.826 ug/l
RT: 9.250 min Scan# 1
Delta R.T. 0.018 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 88 Resp: 501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.2 | 28.5 | 42.7 |
| 58 | 63.8 | 61.4 | 92.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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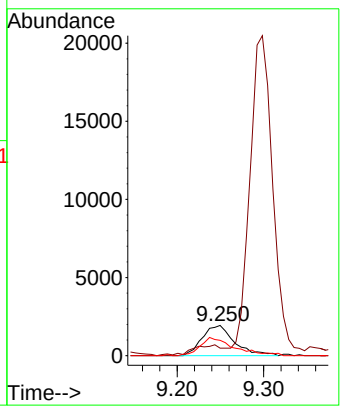
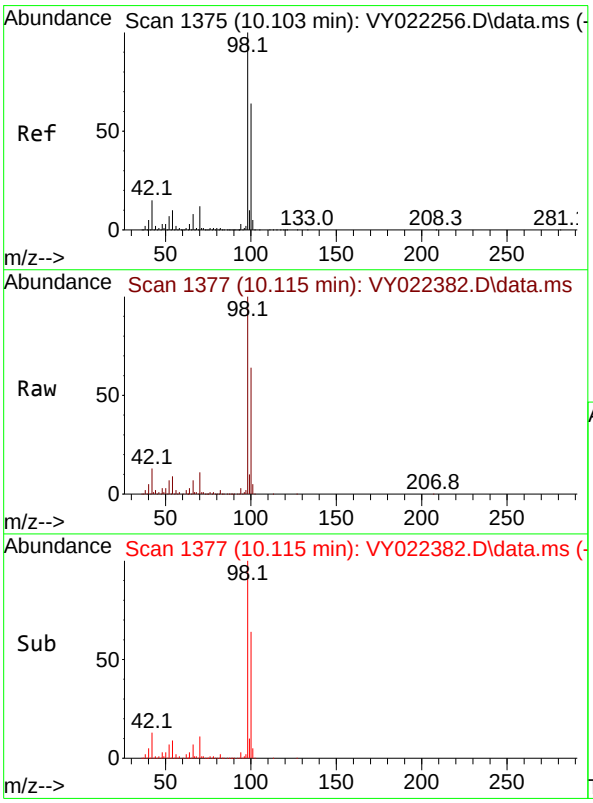
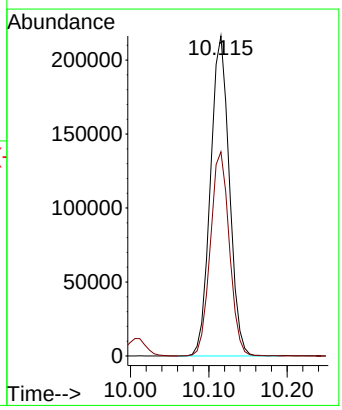


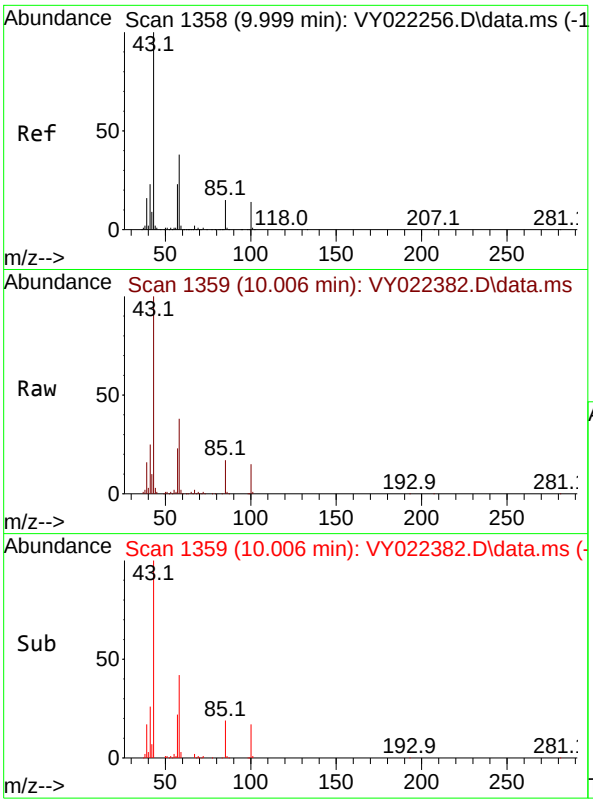




#50
Toluene-d8
Concen: 50.334 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 98 Resp: 361670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.1 | 51.8 | 77.8 |

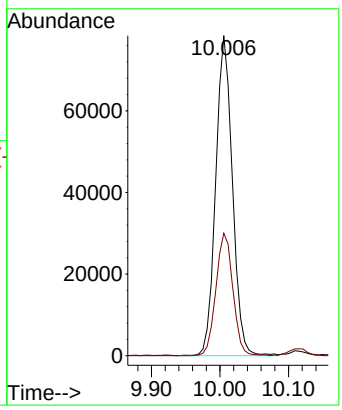





#51
4-Methyl-2-Pentanone
Concen: 88.920 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 43 Resp: 13230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.9 | 29.4 | 44.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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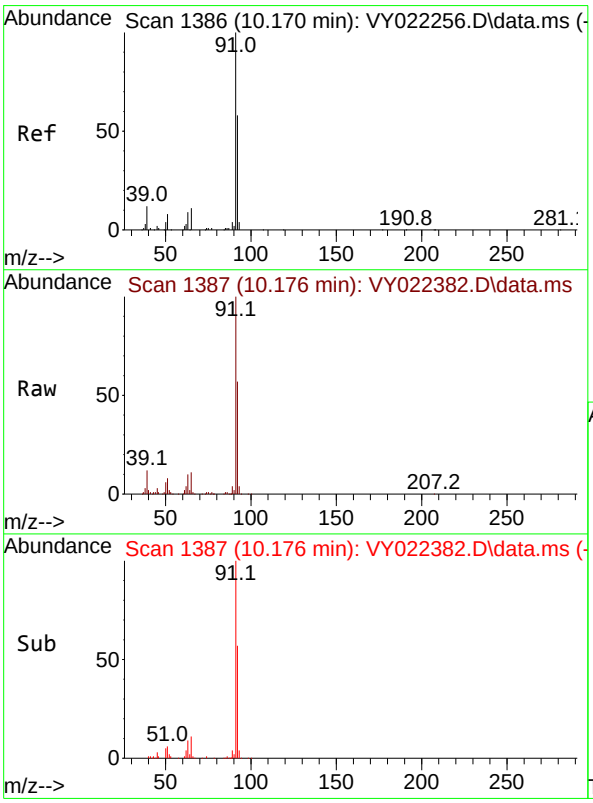
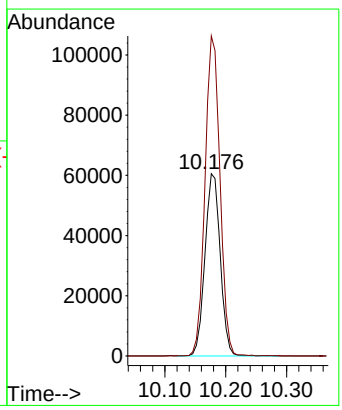
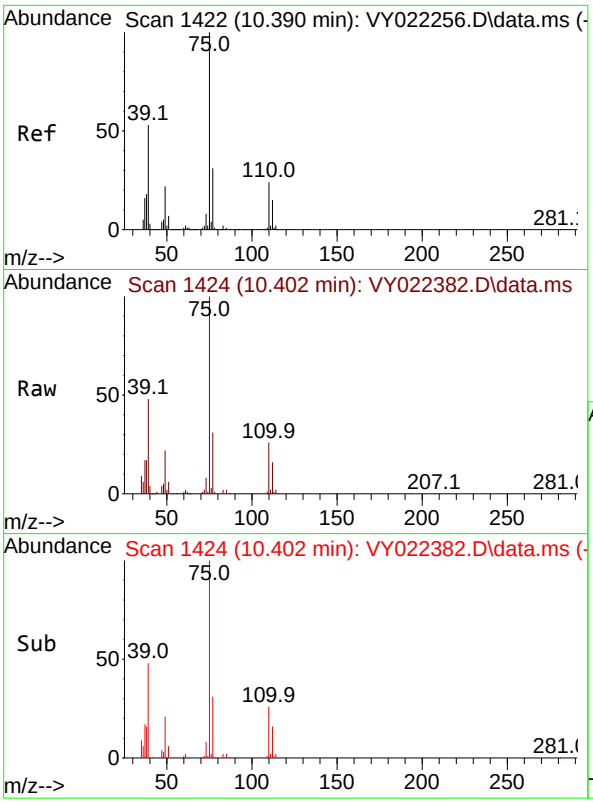



#52
Toluene
Concen: 19.443 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 92 Resp: 105474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.8 | 139.1 | 208.7 |

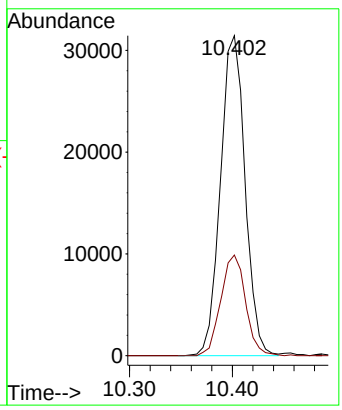





#53
t-1,3-Dichloropropene
Concen: 18.540 ug/l
RT: 10.402 min Scan# 14
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 75 Resp: 5228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

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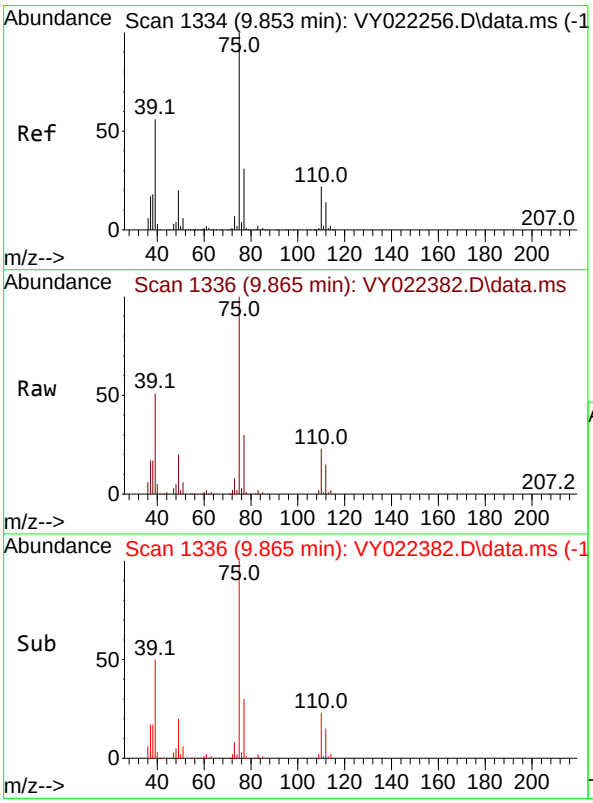
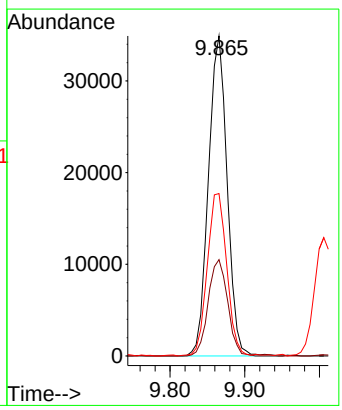
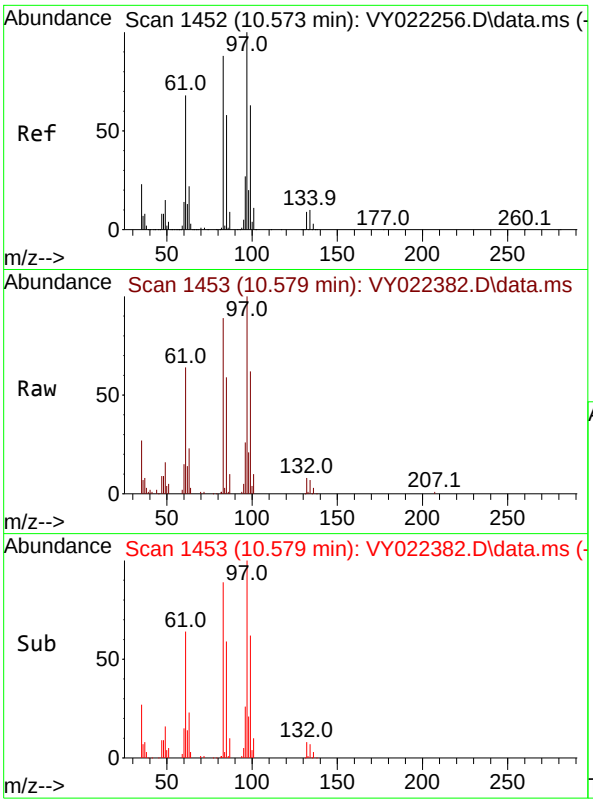



#54
cis-1,3-Dichloropropene
Concen: 18.806 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 75 Resp: 60767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.1 | 25.1 | 37.7 |
| 39 | 50.7 | 44.5 | 66.7 |

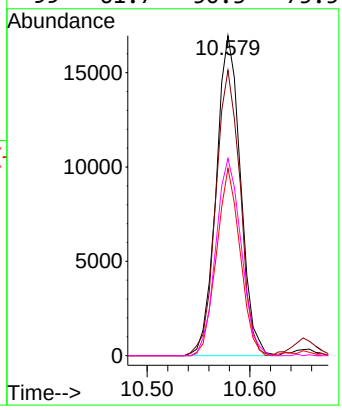





#55
1,1,2-Trichloroethane
Concen: 19.566 ug/l
RT: 10.579 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 97 Resp: 2791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.2 | 70.3 | 105.5 |
| 85 | 58.6 | 46.2 | 69.4 |
| 99 | 61.7 | 50.3 | 75.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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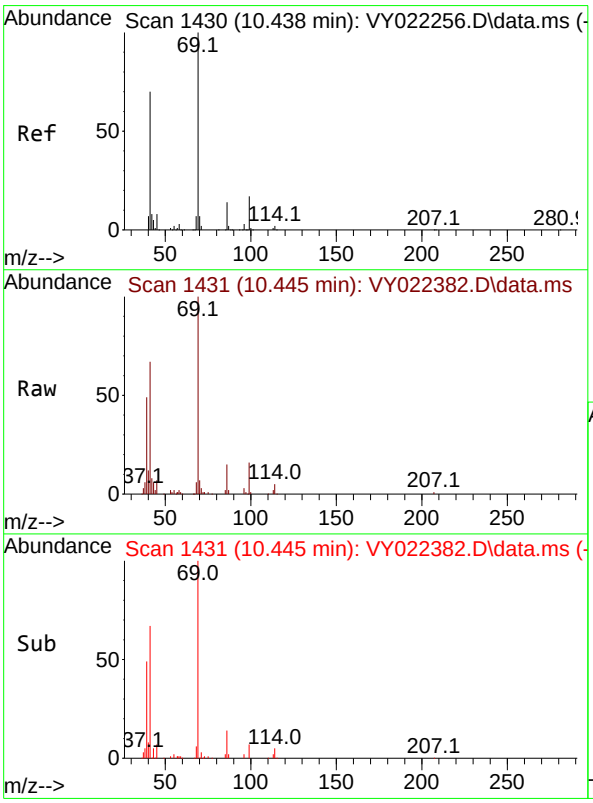
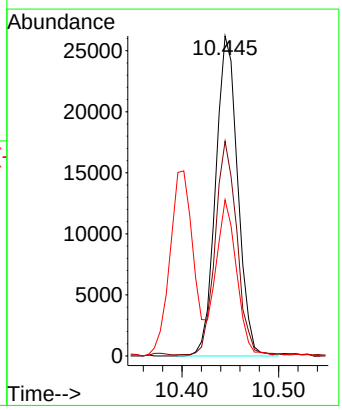
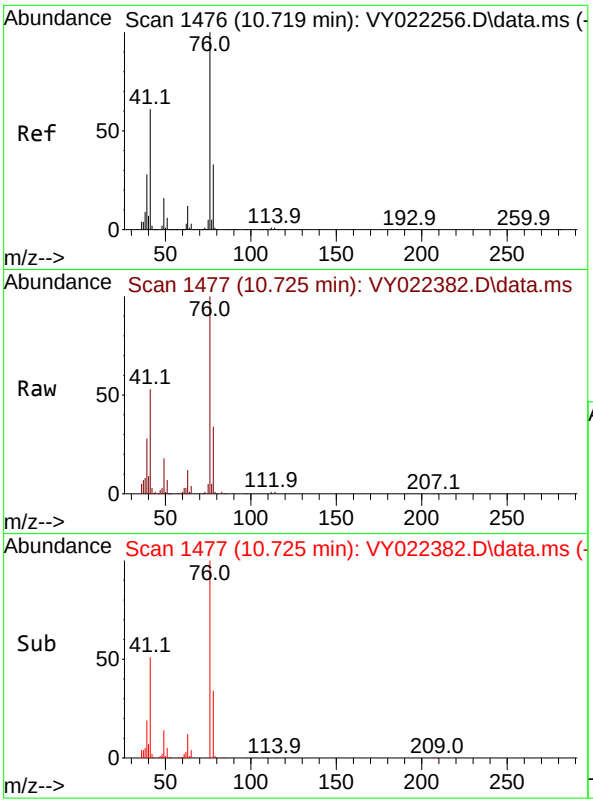



#56
Ethyl methacrylate
Concen: 18.718 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 69 Resp: 41592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 65.1 | 56.5 | 84.7 |
| 39 | 44.1 | 37.1 | 55.7 |






#57
1,3-Dichloropropane
Concen: 20.091 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 76 Resp: 5092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.7 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations APPROVED**

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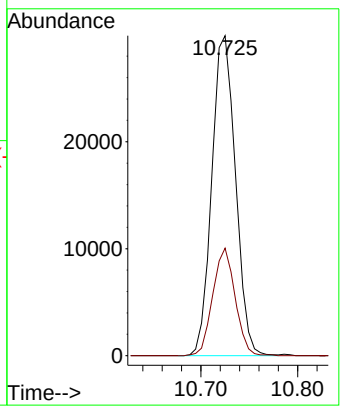
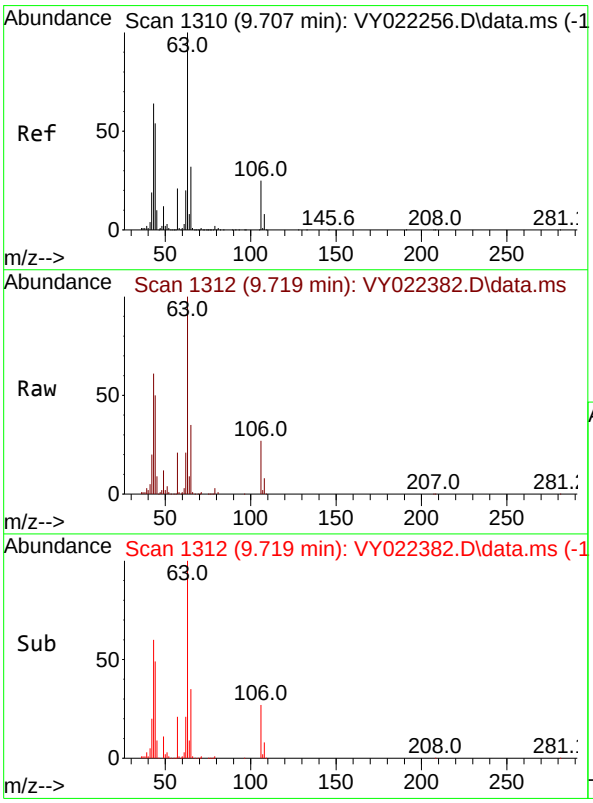
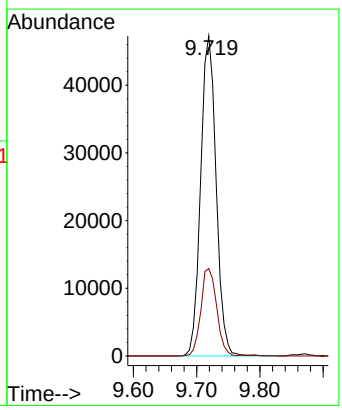


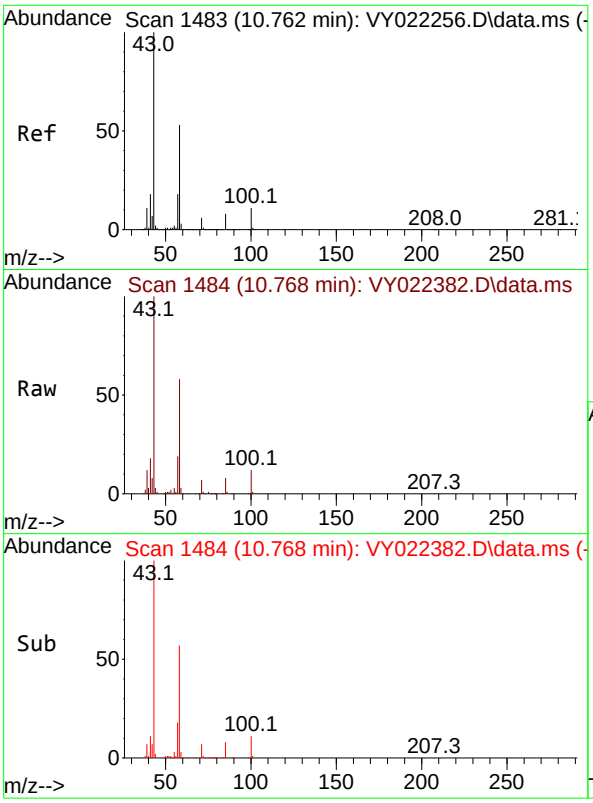




#58
2-Chloroethyl Vinyl ether
Concen: 80.750 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 63 Resp: 80535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.9 | 21.0 | 31.4 |

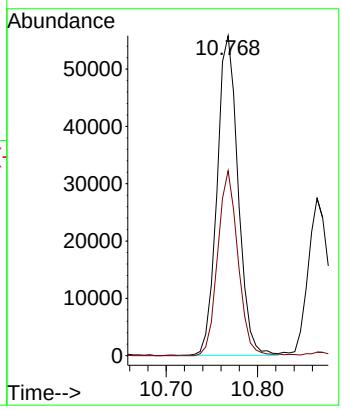





#59
2-Hexanone
Concen: 89.478 ug/l
RT: 10.768 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 43 Resp: 8926

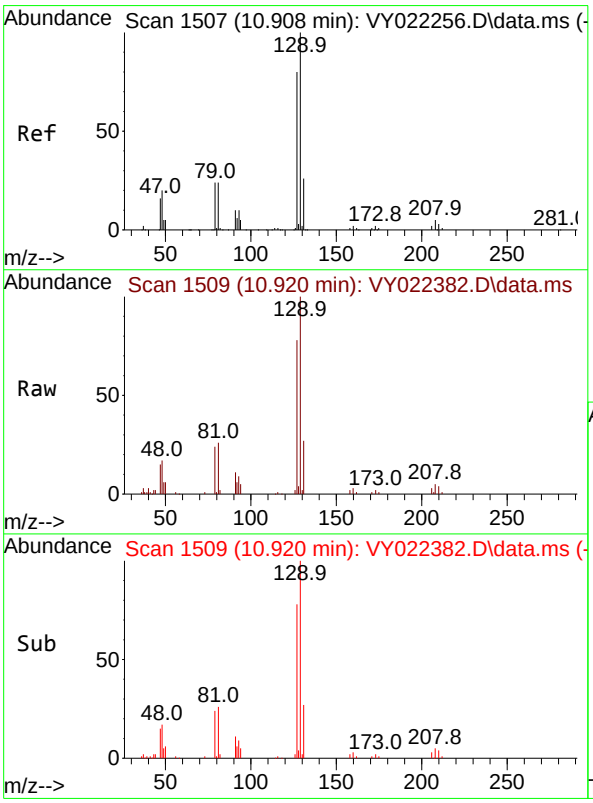
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.9 | 26.1 | 78.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
**APPROVED**

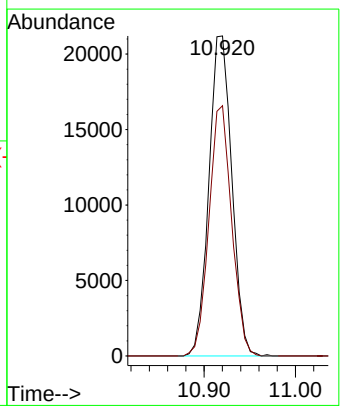
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

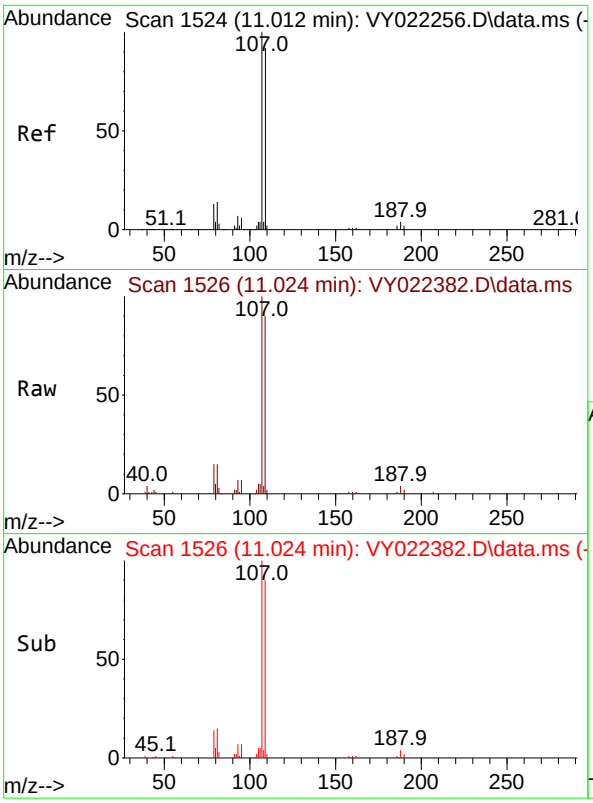



#60
Dibromochloromethane
Concen: 19.947 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:129 Resp: 36931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.4 | 38.6 | 115.7 |

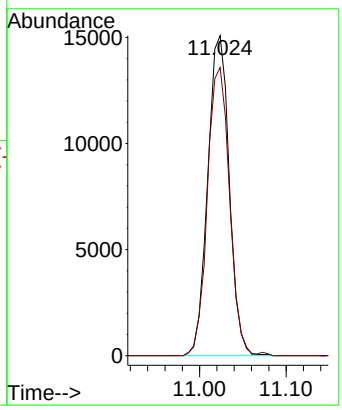





#61
1,2-Dibromoethane
Concen: 19.596 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:107 Resp: 2605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.2 | 74.6 | 111.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/23/2025
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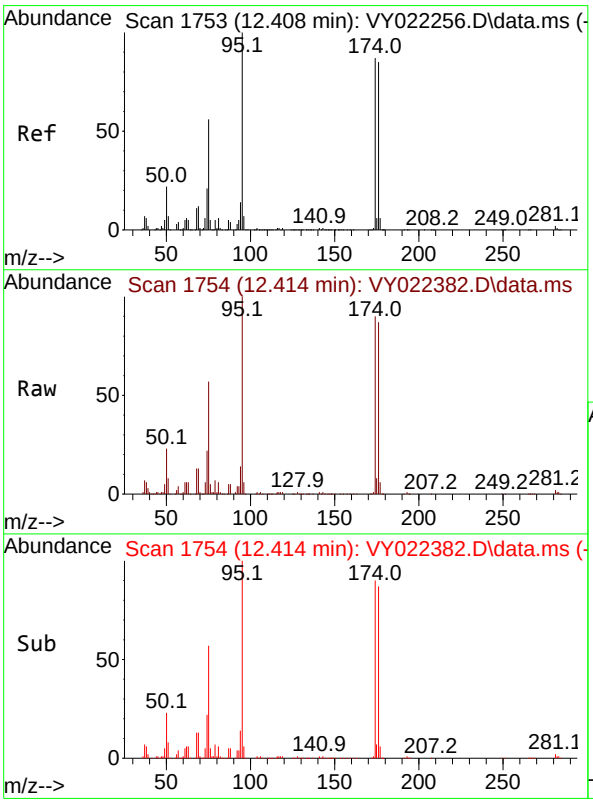
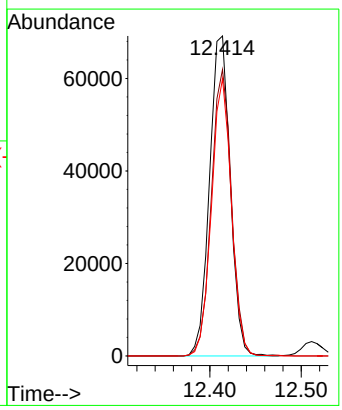
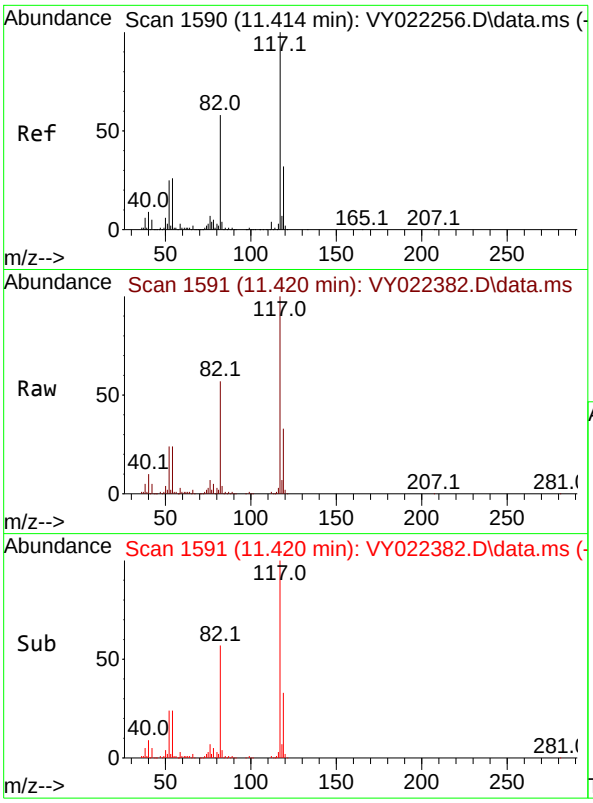



#62
4-Bromofluorobenzene
Concen: 47.724 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 95 Resp: 108691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 87.4 | 0.0 | 166.8 |
| 176 | 83.4 | 0.0 | 160.8 |

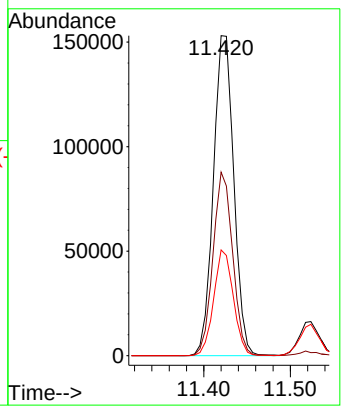





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:117 Resp: 25084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.3 | 46.6 | 70.0 |
| 119 | 33.0 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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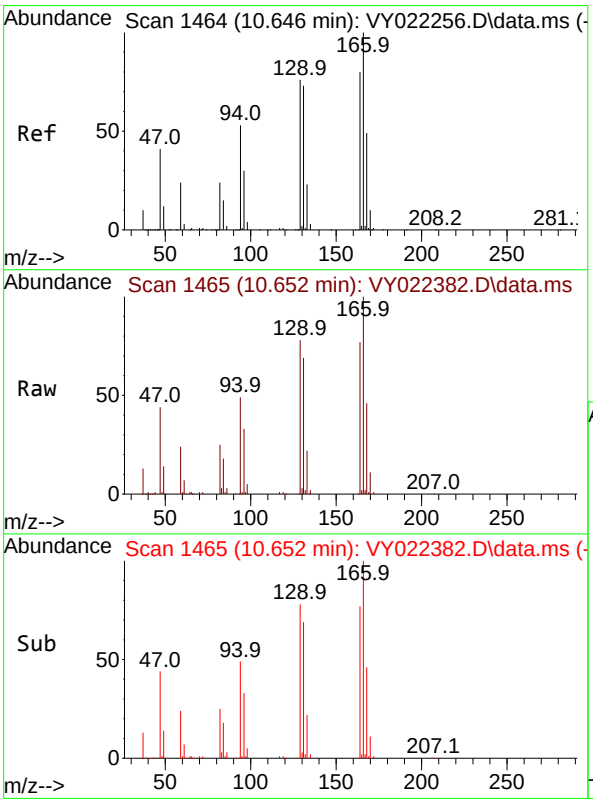
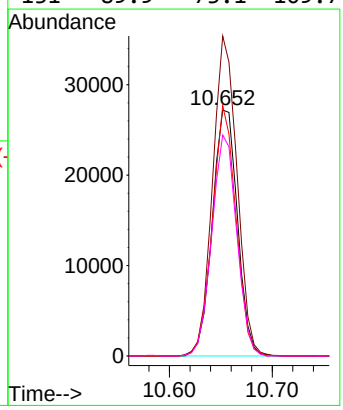
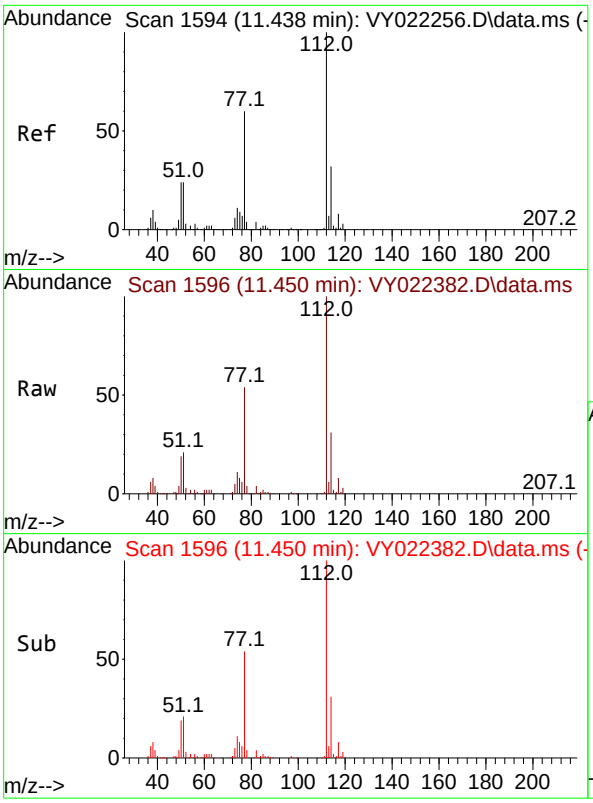



#64
Tetrachloroethene
Concen: 19.928 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:164 Resp: 46204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 130.1 | 100.4 | 150.6 |
| 129 | 101.8 | 76.4 | 114.6 |
| 131 | 89.9 | 73.1 | 109.7 |

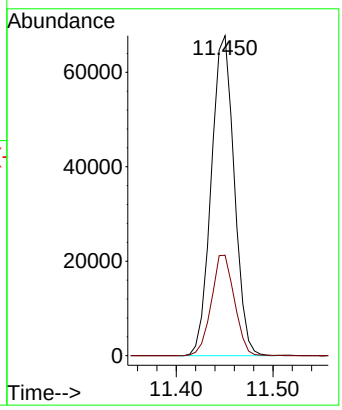





#65
Chlorobenzene
Concen: 19.735 ug/l
RT: 11.450 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:112 Resp: 11168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.4 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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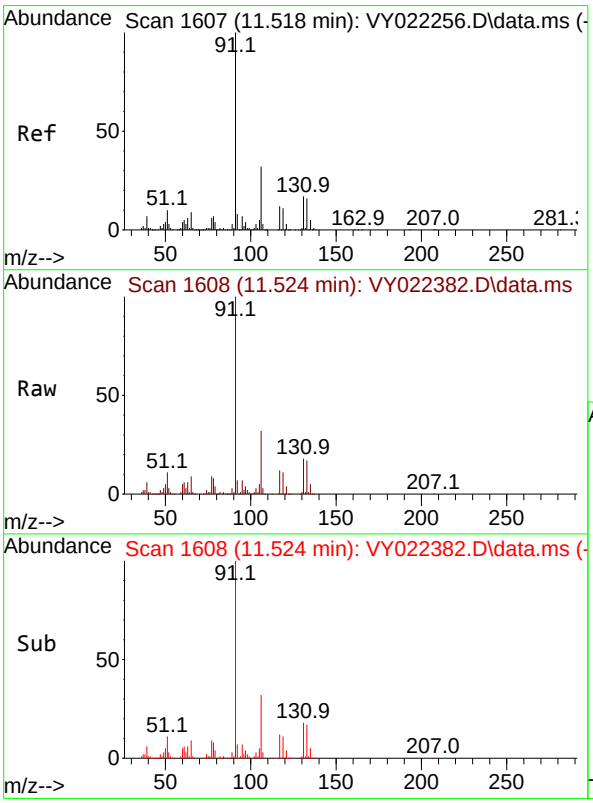
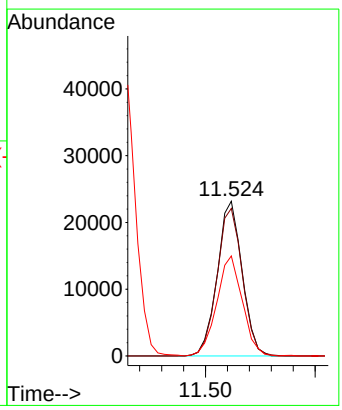
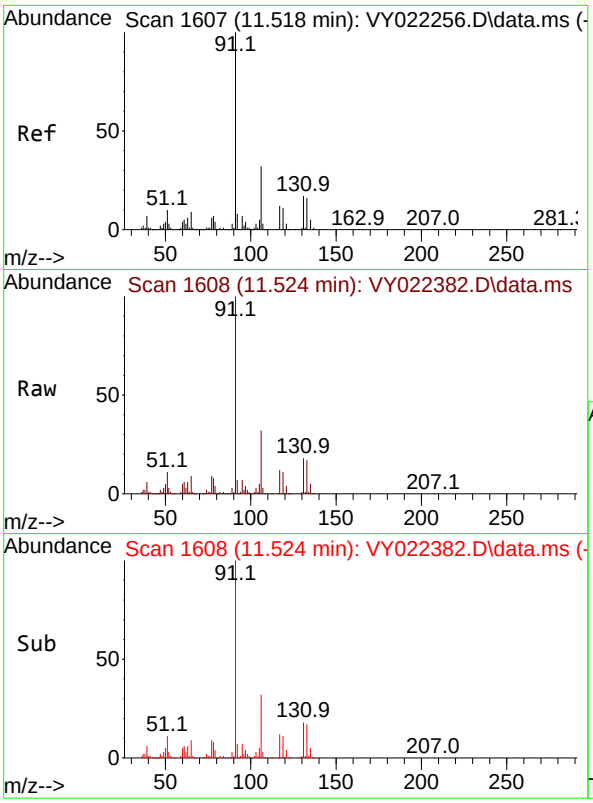



#66
1,1,1,2-Tetrachloroethane
Concen: 18.757 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:131 Resp: 36492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.0 | 47.3 | 141.9 |
| 119 | 66.5 | 33.1 | 99.2 |

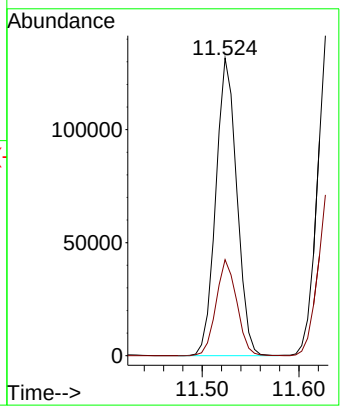





#67
Ethyl Benzene
Concen: 18.720 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 91 Resp: 19841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.2 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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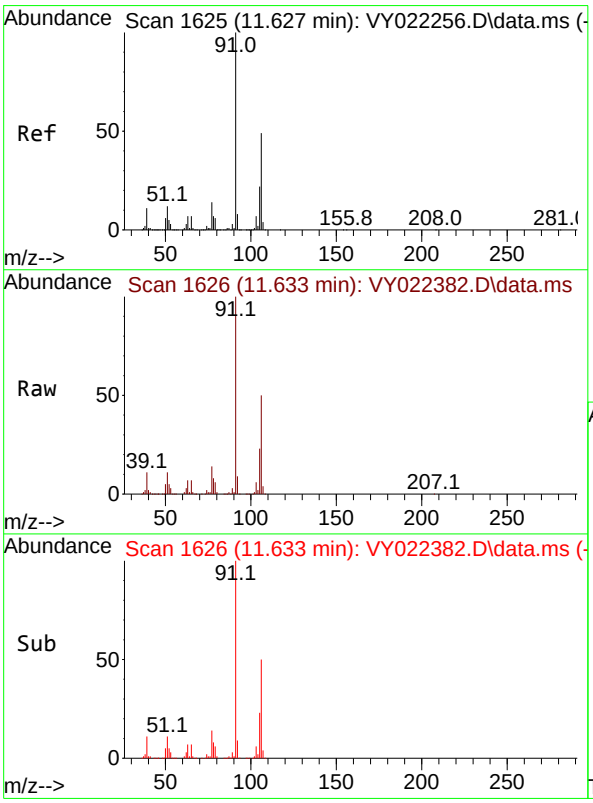
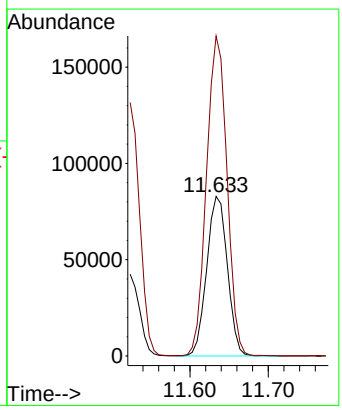
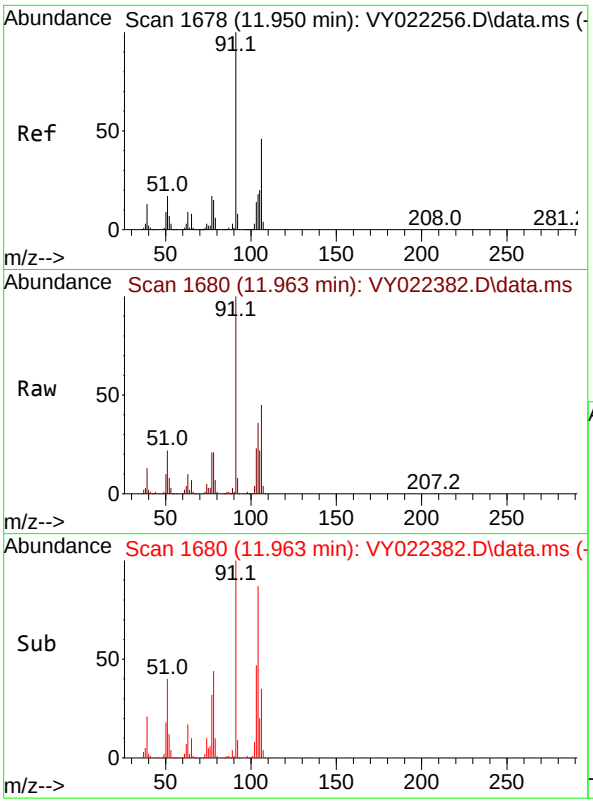



#68
m/p-Xylenes
Concen: 37.987 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:106 Resp: 151710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 199.2 | 163.0 | 244.4 |

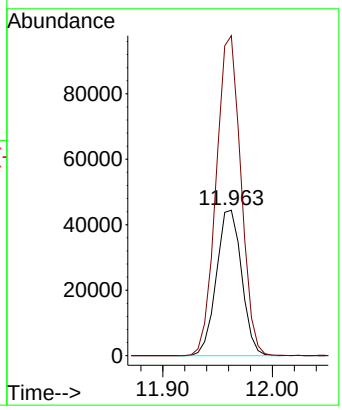





#69
o-Xylene
Concen: 18.827 ug/l
RT: 11.963 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:106 Resp: 7114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.8 | 108.3 | 324.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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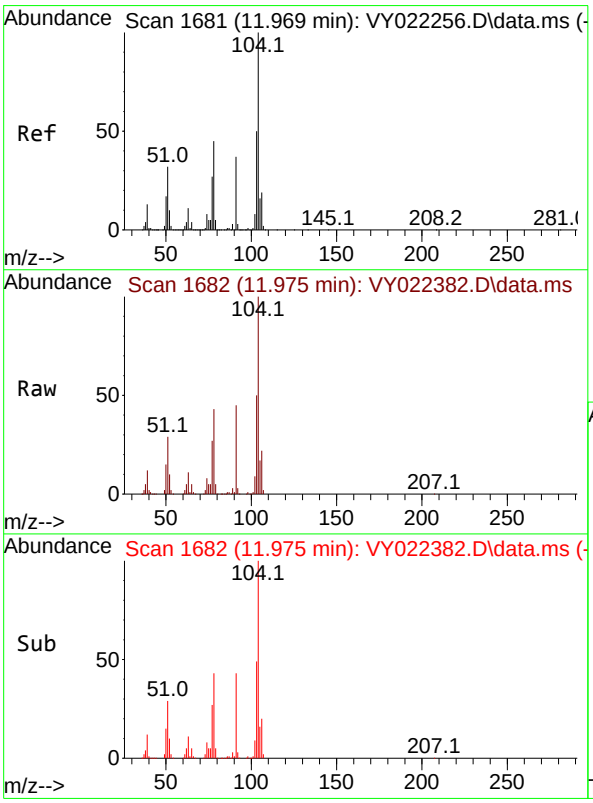
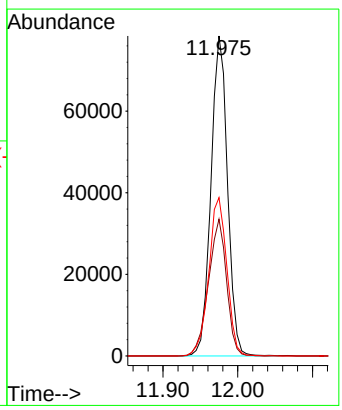
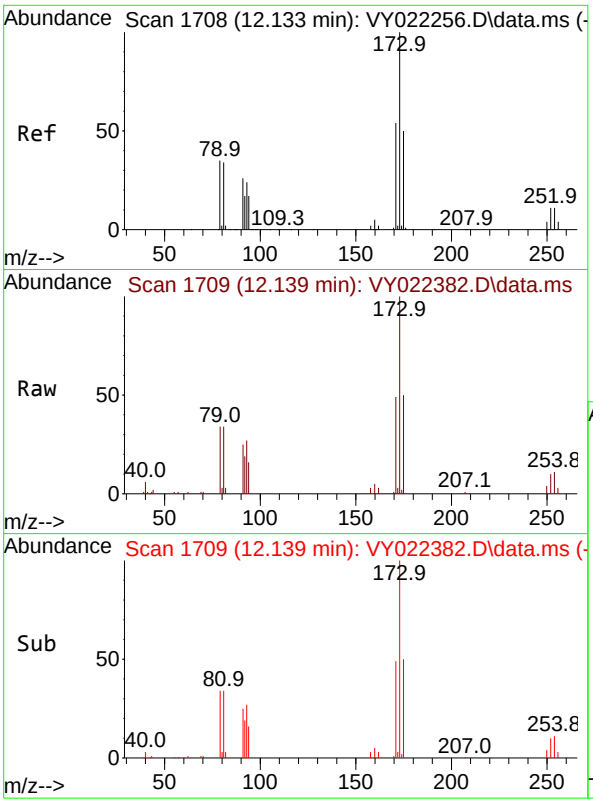



#70
Styrene
Concen: 18.995 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:104 Resp: 121069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 46.7 | 40.9 | 61.3 |
| 103 | 54.1 | 43.7 | 65.5 |

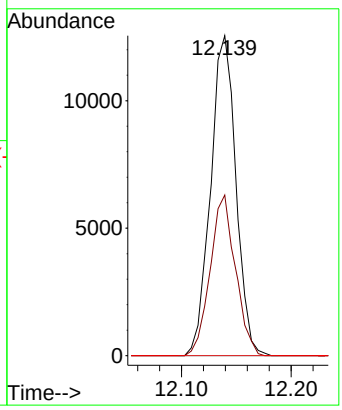





#71
Bromoform
Concen: 19.208 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:173 Resp: 2017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 50.0 | 24.7 | 74.1 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

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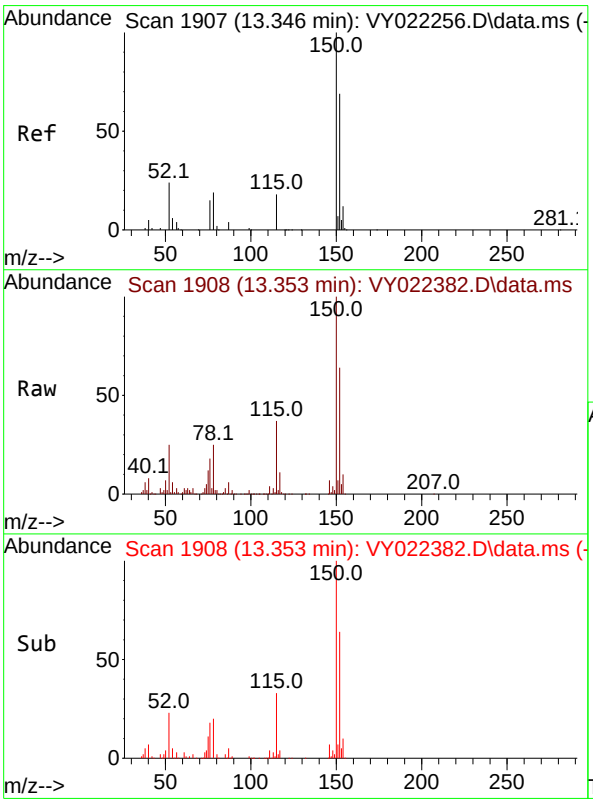
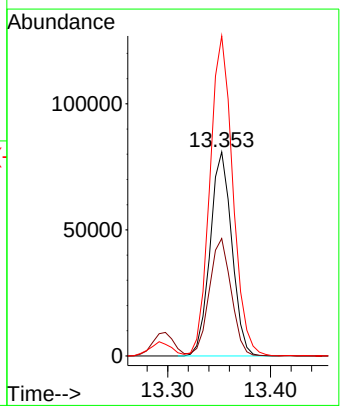
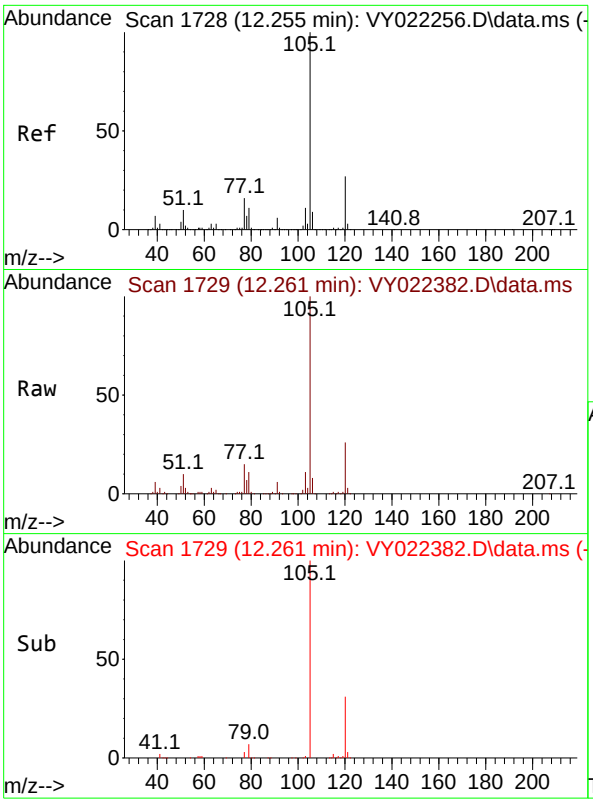



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:152 Resp: 118480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.2 | 29.4 | 88.2 |
| 150 | 165.6 | 0.0 | 353.8 |

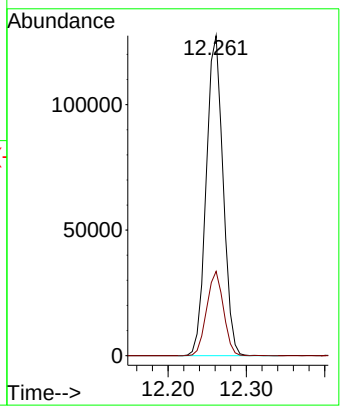





#73
Isopropylbenzene
Concen: 19.302 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:105 Resp: 18945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.3 | 13.2 | 39.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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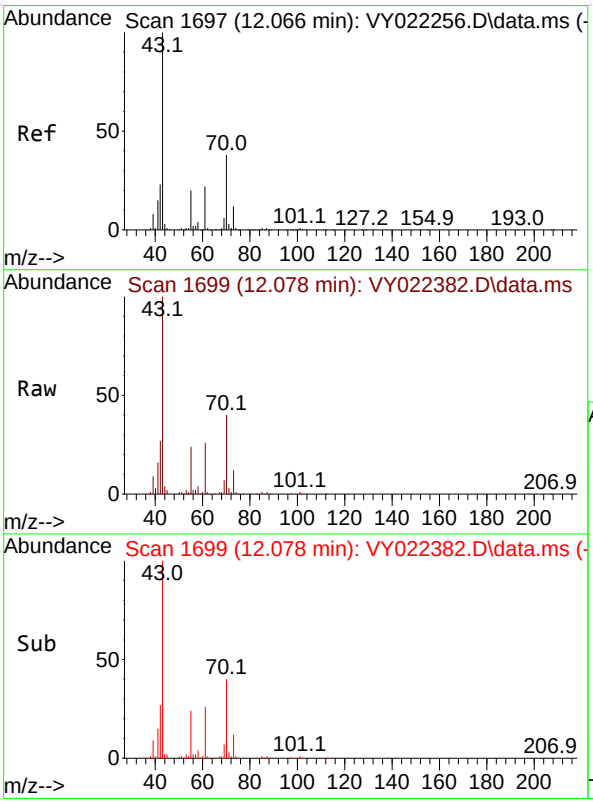
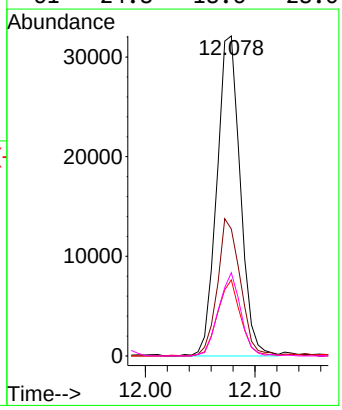
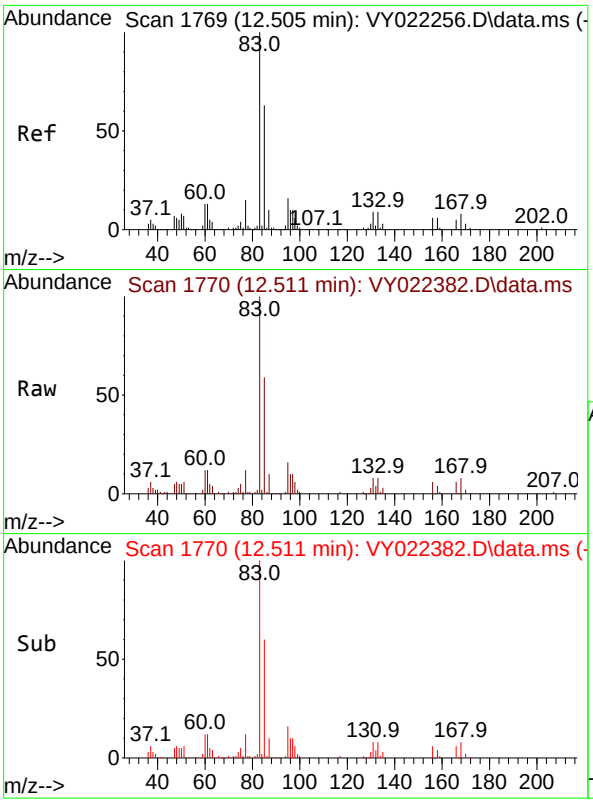



#74
N-amyl acetate
Concen: 17.019 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.012 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 43 Resp: 47777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.2 | 31.4 | 47.0 |
| 55 | 23.4 | 17.0 | 25.6 |
| 61 | 24.8 | 18.6 | 28.0 |

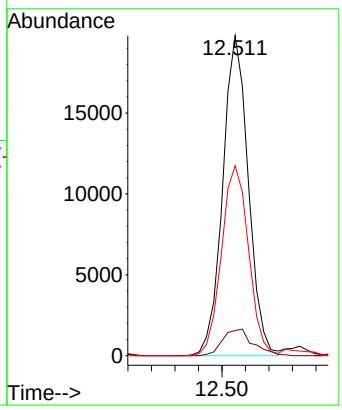





#75
1,1,2,2-Tetrachloroethane
Concen: 19.845 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 83 Resp: 2995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.8 | 4.9 | 14.7 |
| 85 | 62.6 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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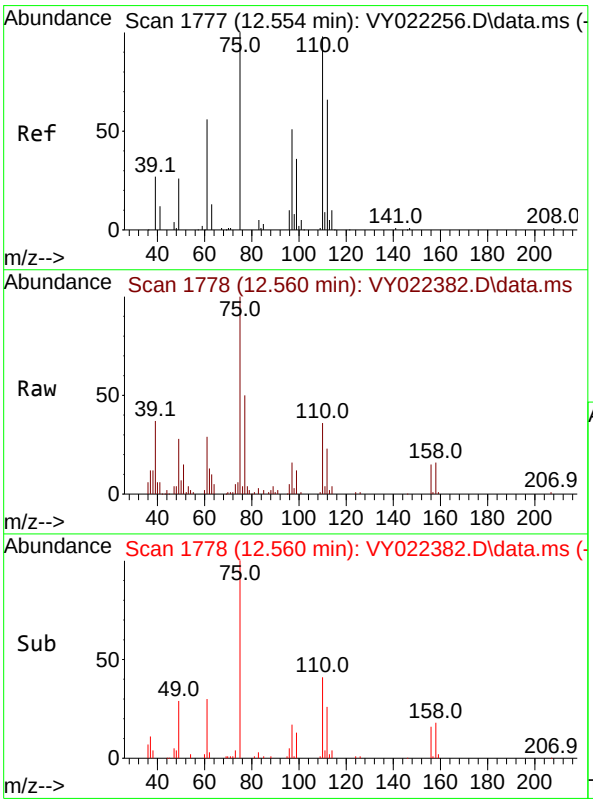
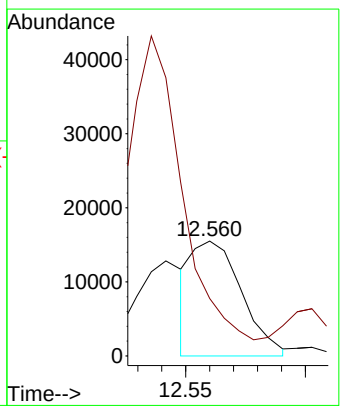
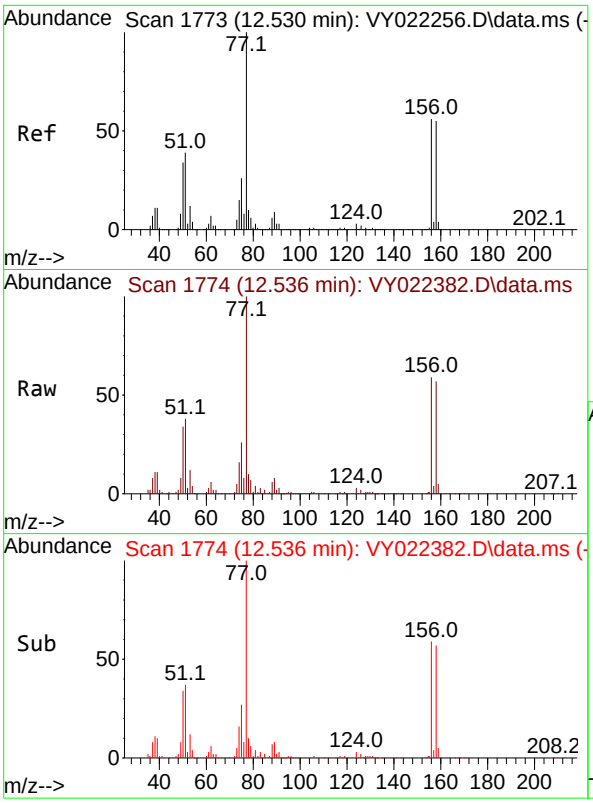



#76
1,2,3-Trichloropropane
Concen: 18.877 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 75 Resp: 22658

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

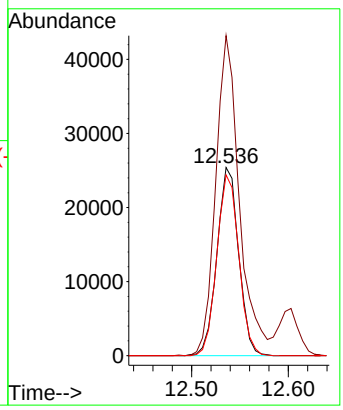





#77
Bromobenzene
Concen: 18.881 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:156 Resp: 3958

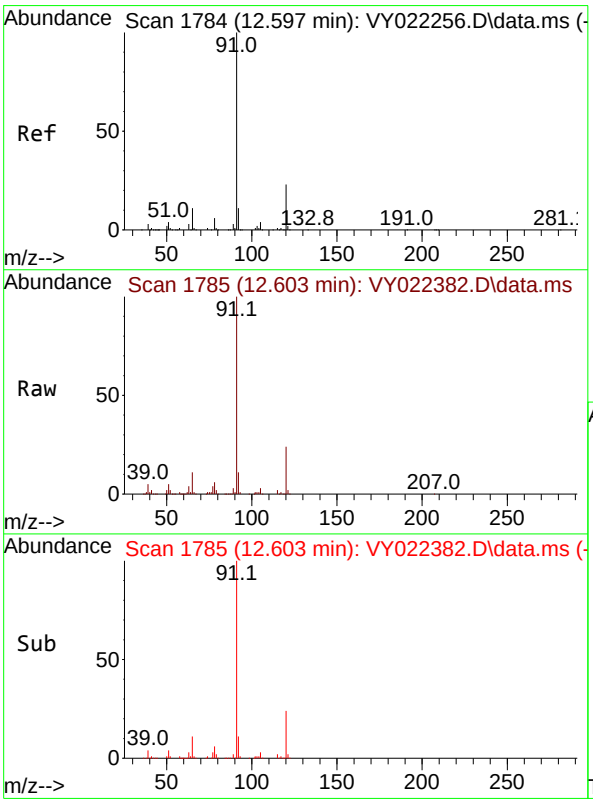
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 184.7 | 94.5 | 283.6 |
| 158 | 97.4 | 48.4 | 145.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
**APPROVED**

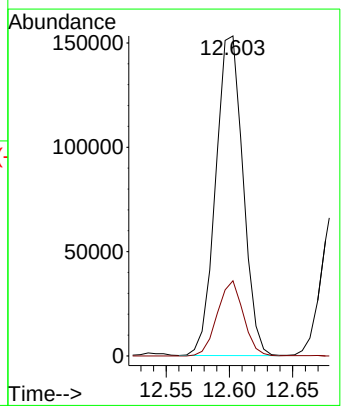
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

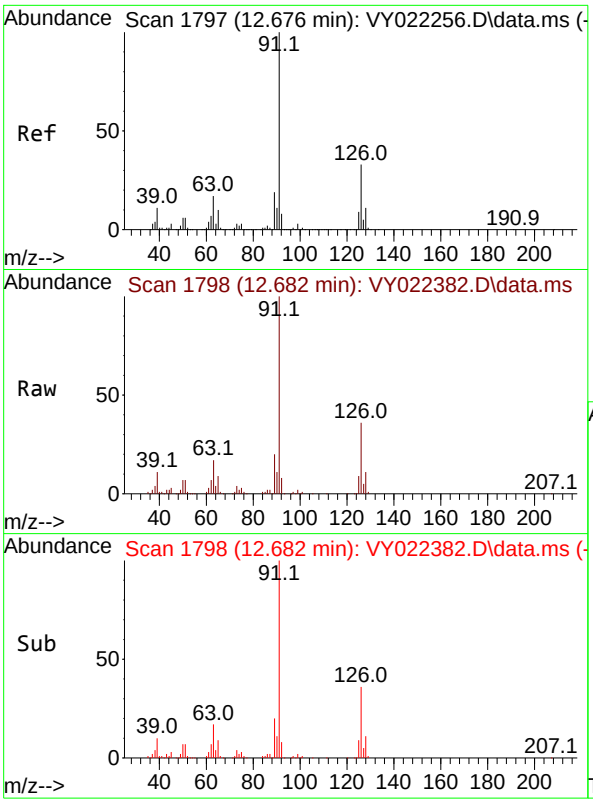



#78
n-propylbenzene
Concen: 19.375 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 91 Resp: 229385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.4 | 11.1 | 33.3 |

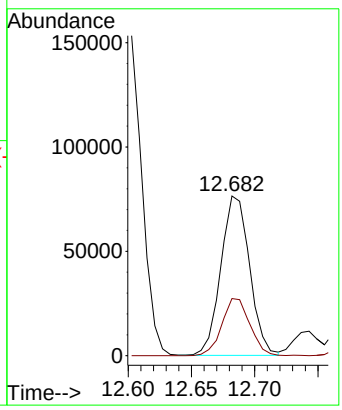





#79
2-Chlorotoluene
Concen: 18.594 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 91 Resp: 12097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.0 | 16.8 | 50.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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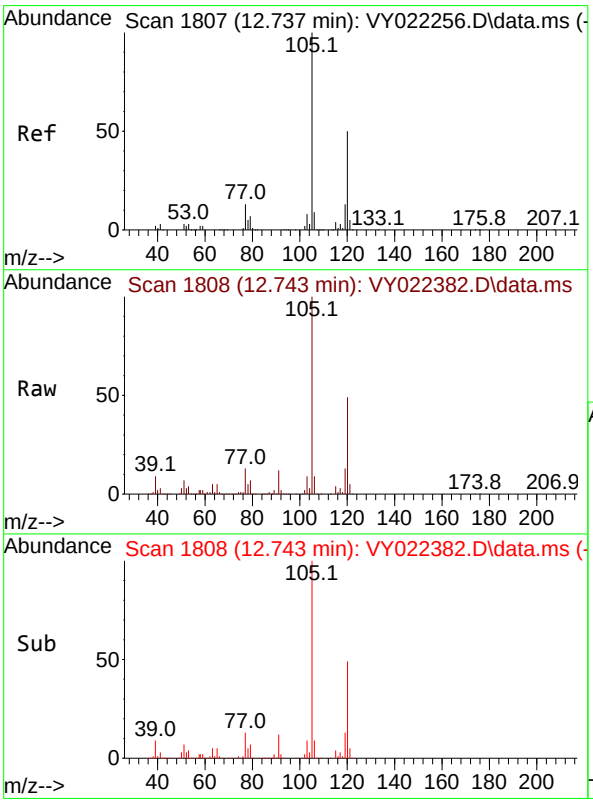
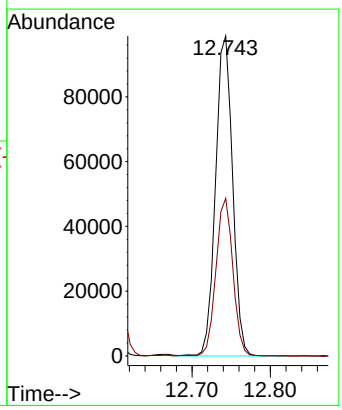
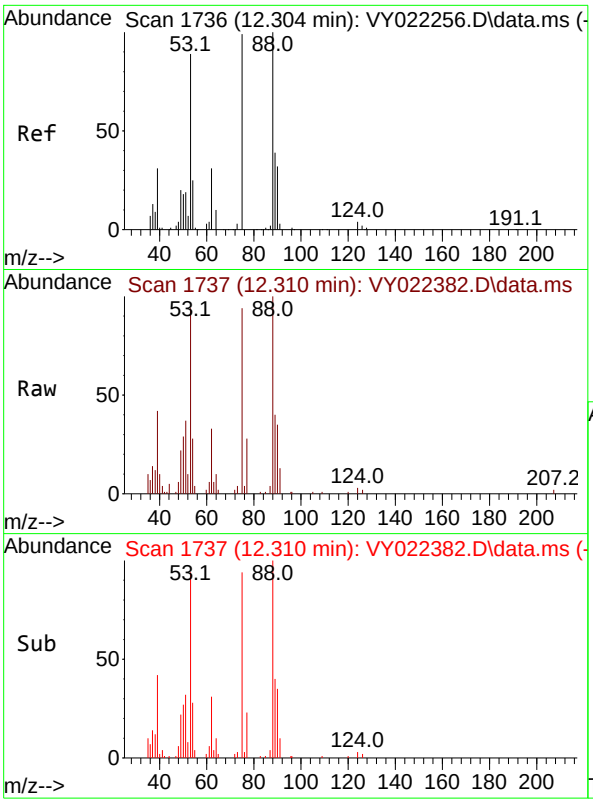



#80
1,3,5-Trimethylbenzene
Concen: 18.859 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:105 Resp: 149426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.8 | 24.2 | 72.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 17.950 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 75 Resp: 1063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 91.8 | 75.8 | 113.8 |
| 89 | 44.0 | 36.2 | 54.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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Reviewed By :John Carlone 05/23/2025
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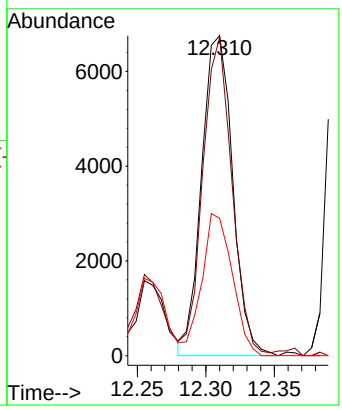
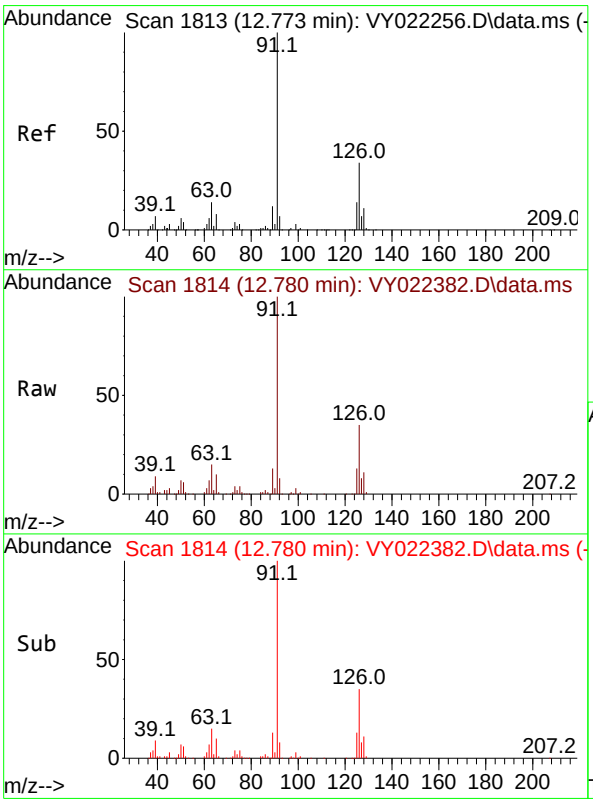
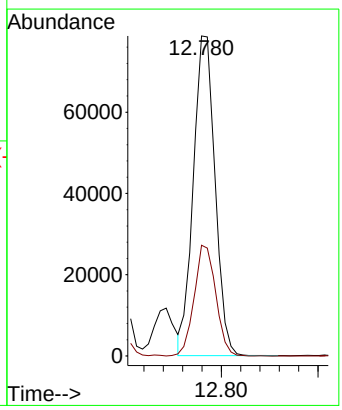


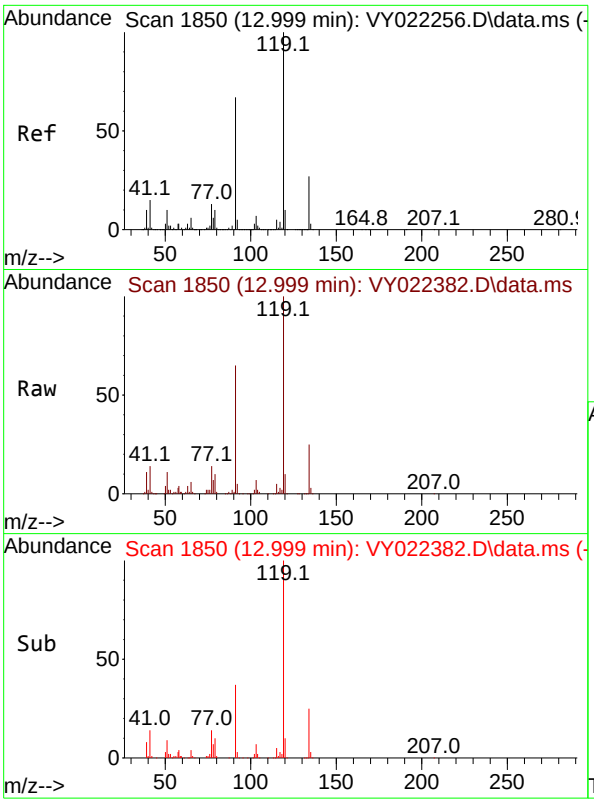




#82
4-Chlorotoluene
Concen: 18.386 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 91 Resp: 123043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.4 | 16.8 | 50.4 |

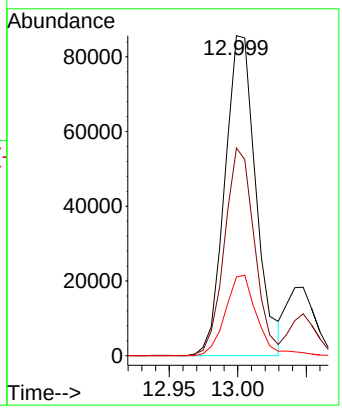





#83
tert-Butylbenzene
Concen: 19.156 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:119 Resp: 13490

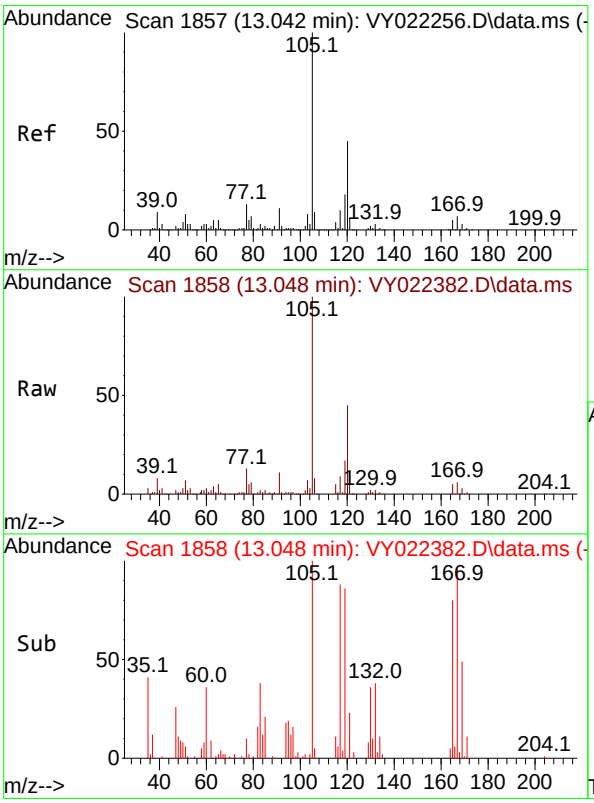
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 62.6 | 32.8 | 98.3 |
| 134 | 25.8 | 12.9 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
**APPROVED**

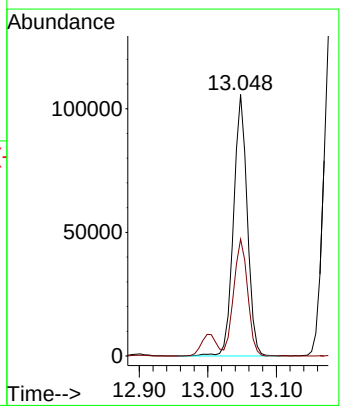
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

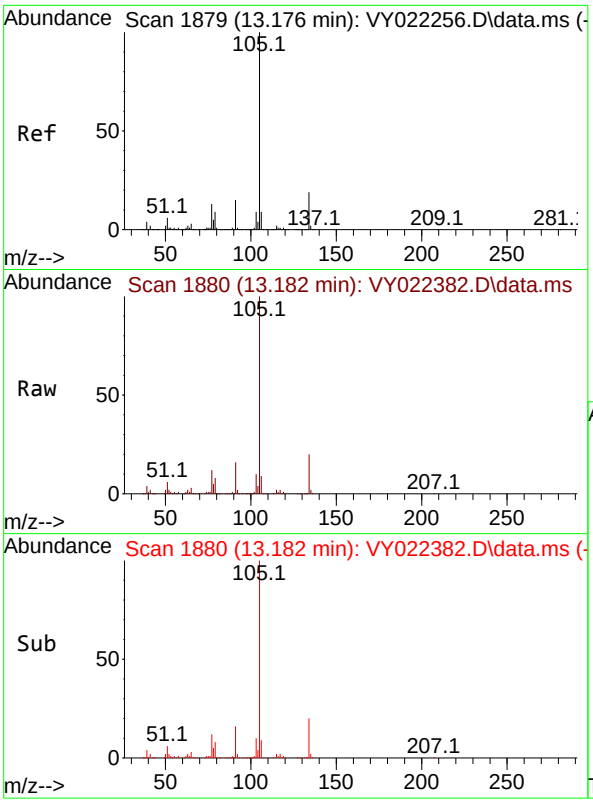



#84
1,2,4-Trimethylbenzene
Concen: 18.771 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:105 Resp: 147645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.1 | 22.3 | 66.9 |

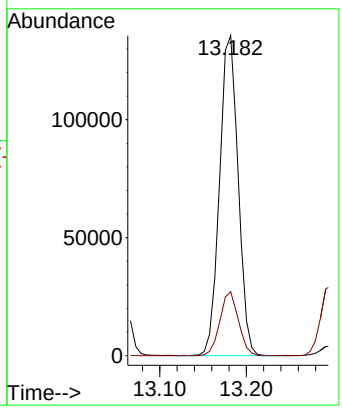





#85
sec-Butylbenzene
Concen: 19.368 ug/l
RT: 13.182 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:105 Resp: 20247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 9.8 | 29.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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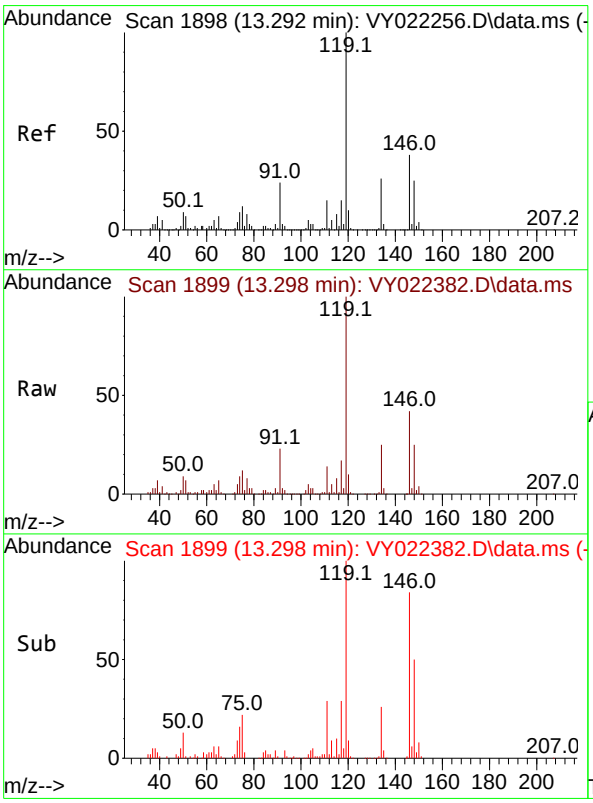
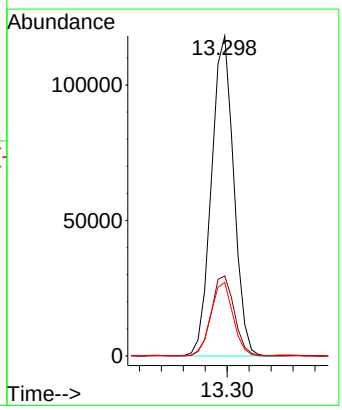
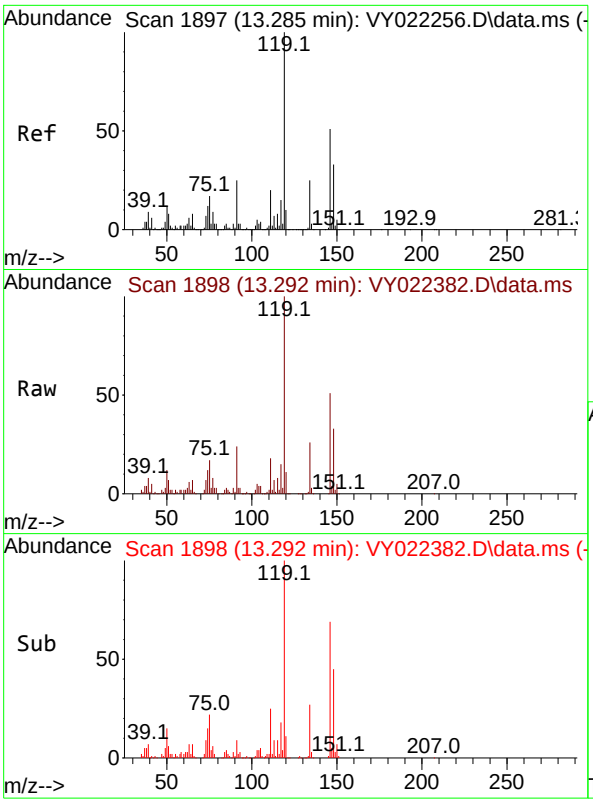



#86
p-Isopropyltoluene
Concen: 18.977 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:119 Resp: 166855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 12.9 | 38.6 |
| 91 | 22.9 | 12.1 | 36.3 |






#87
1,3-Dichlorobenzene
Concen: 18.857 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:146 Resp: 8070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.5 | 19.9 | 59.7 |
| 148 | 63.3 | 31.9 | 95.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/23/2025
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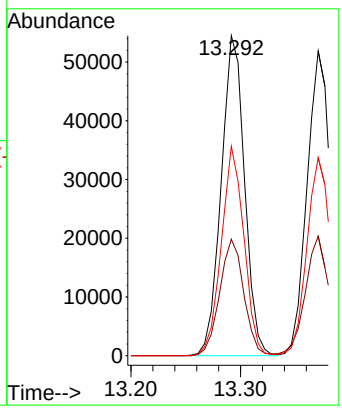
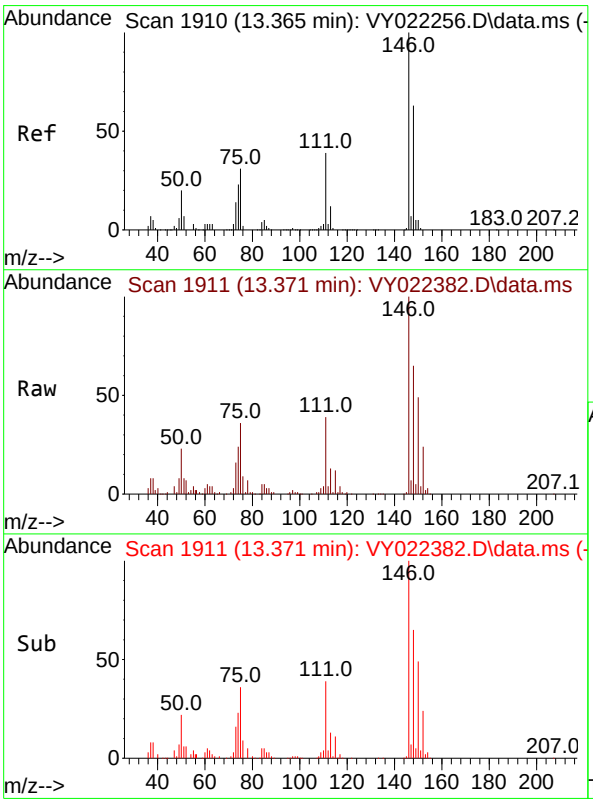
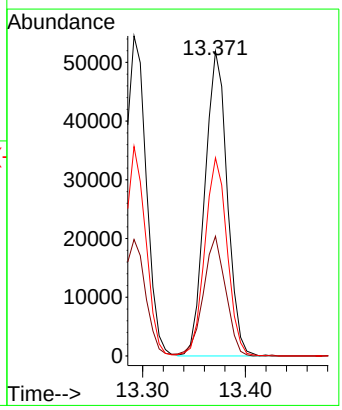


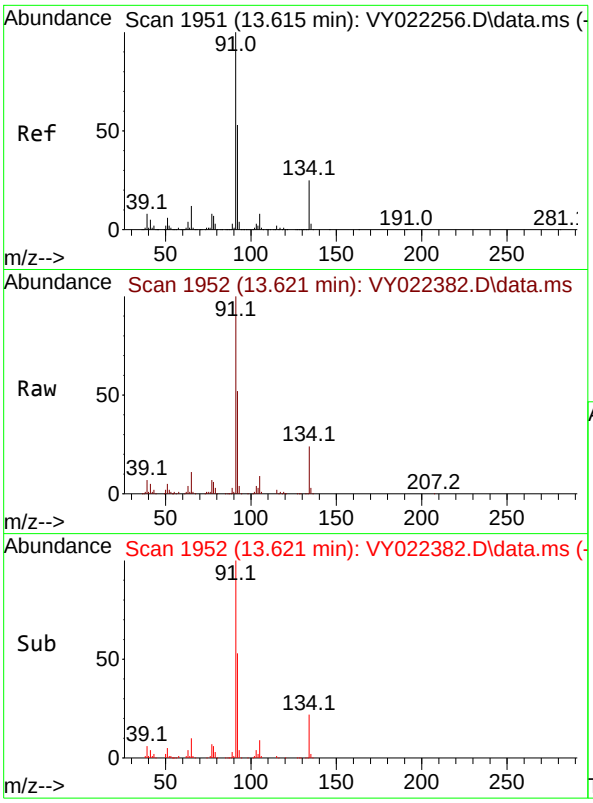




#88
1,4-Dichlorobenzene
Concen: 18.995 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:146 Resp: 78194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.3 | 20.0 | 59.9 |
| 148 | 65.2 | 32.1 | 96.5 |

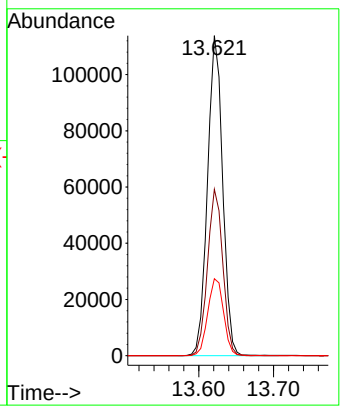





#89
n-Butylbenzene
Concen: 19.260 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 91 Resp: 16020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.3 | 26.3 | 78.9 |
| 134 | 25.1 | 12.4 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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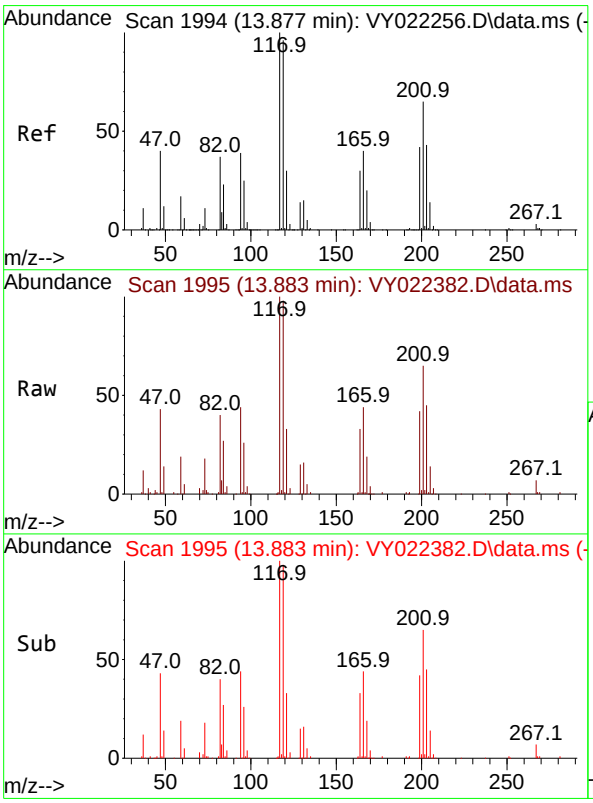
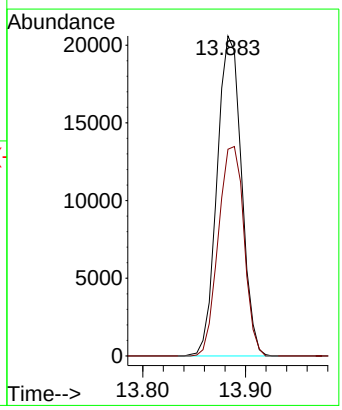
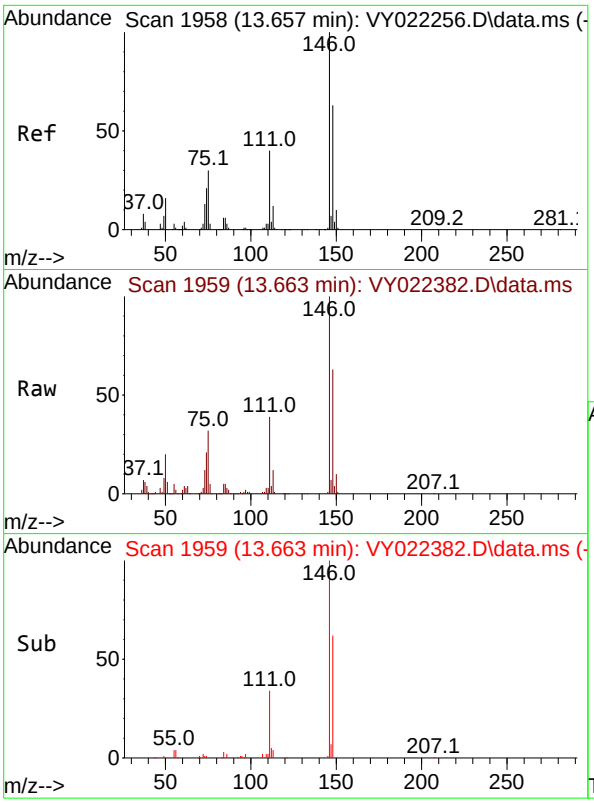



#90
Hexachloroethane
Concen: 19.127 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:117 Resp: 33947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 68.7 | 35.2 | 105.6 |

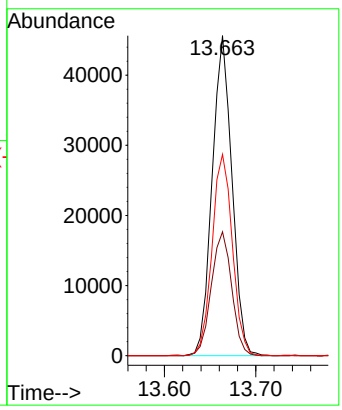





#91
1,2-Dichlorobenzene
Concen: 19.098 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:146 Resp: 6865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 20.5 | 61.5 |
| 148 | 64.6 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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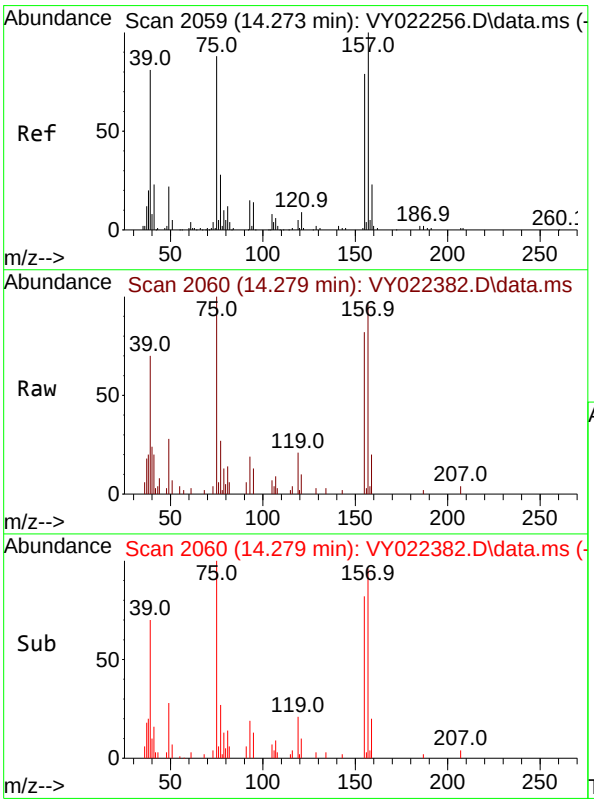
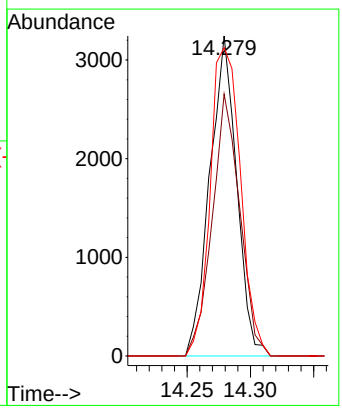
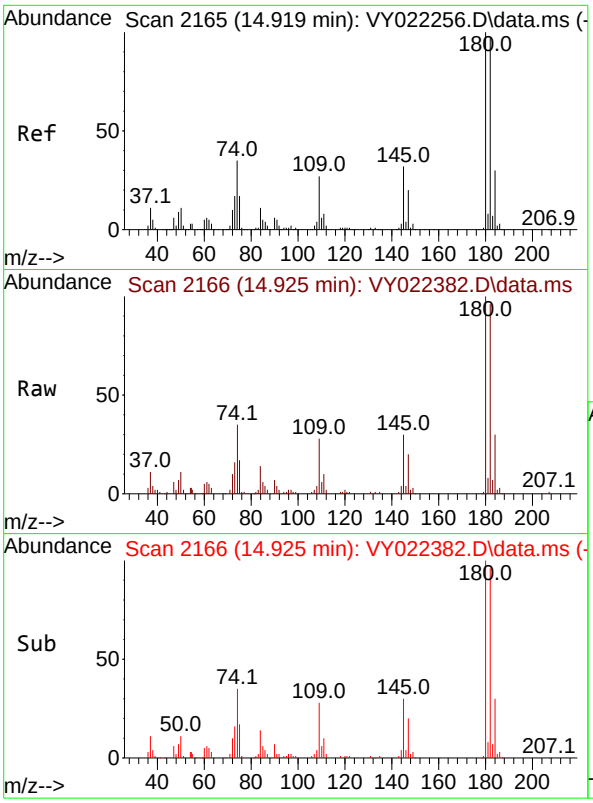



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.637 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion: 75 Resp: 4780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 84.1 | 43.4 | 130.1 |
| 157 | 109.0 | 54.6 | 163.9 |

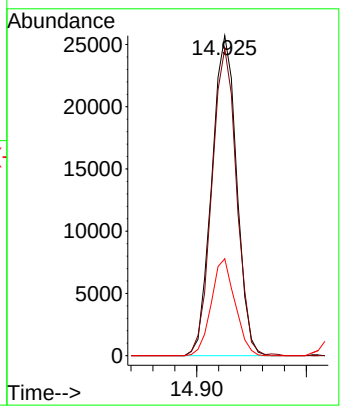





#93
1,2,4-Trichlorobenzene
Concen: 19.482 ug/l
RT: 14.925 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:180 Resp: 4045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 48.0 | 144.0 |
| 145 | 29.0 | 15.0 | 45.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
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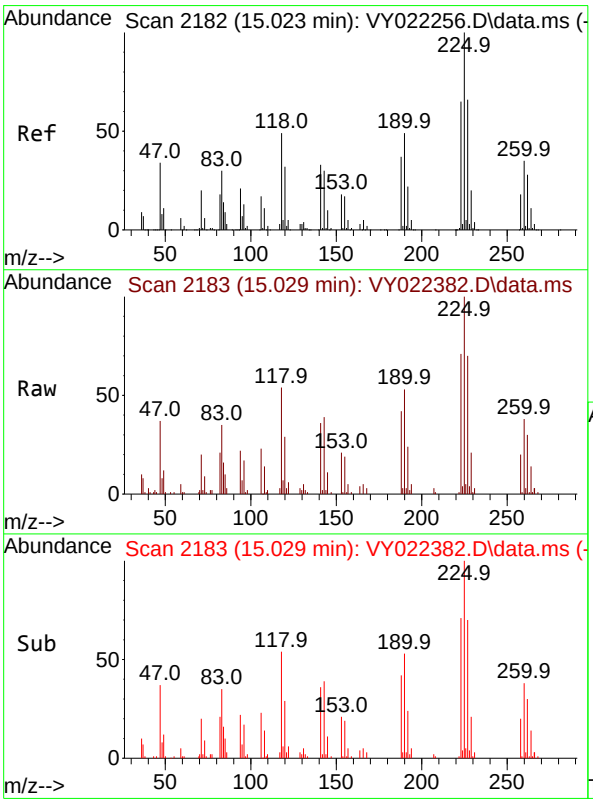
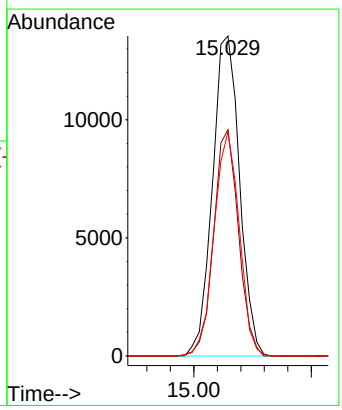
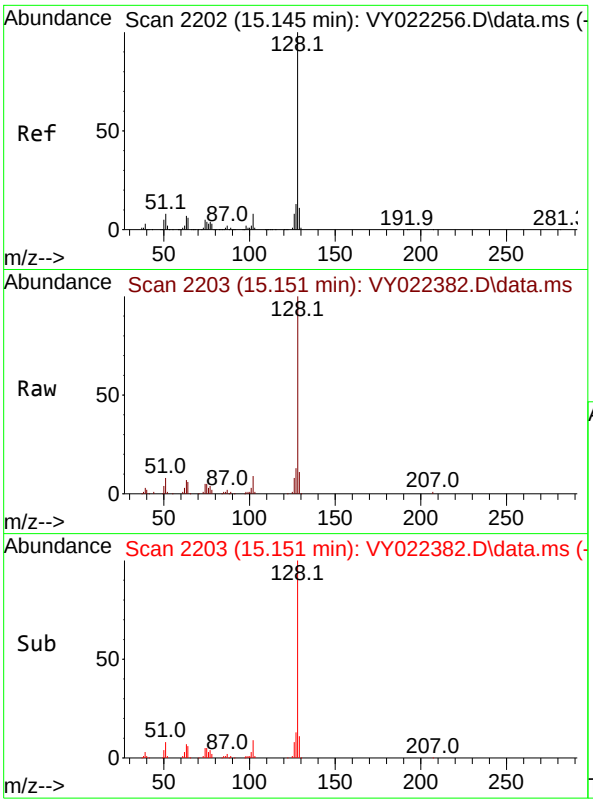



#94
Hexachlorobutadiene
Concen: 18.766 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:225 Resp: 21731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.6 | 31.5 | 94.5 |
| 227 | 65.1 | 32.1 | 96.3 |

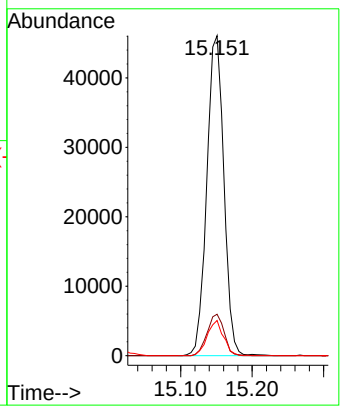





#95
Naphthalene
Concen: 19.368 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:128 Resp: 7632

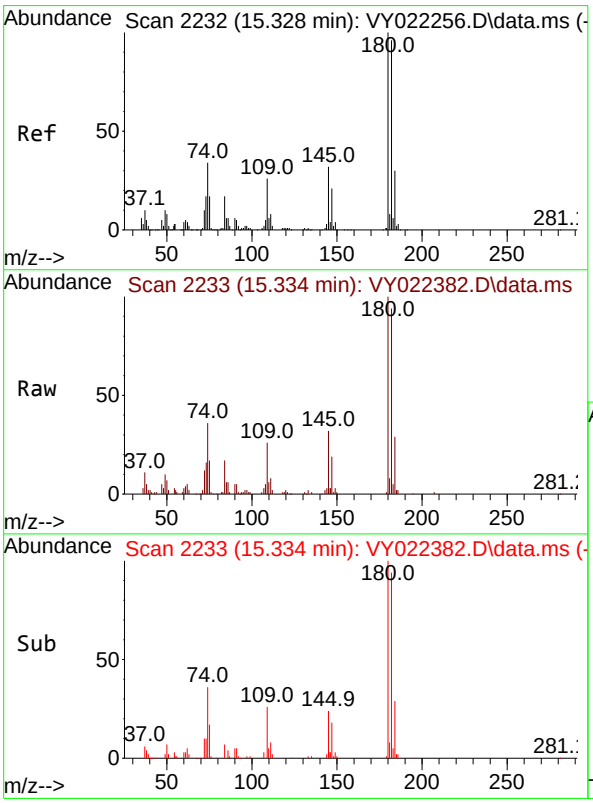
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.2 | 15.2 |
| 129 | 10.5 | 8.8 | 13.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0522SBS01

**Manual Integrations**
**APPROVED**

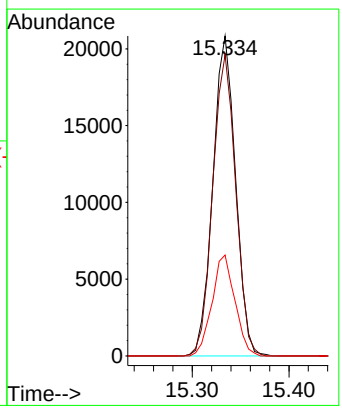
Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025




#96
1,2,3-Trichlorobenzene
Concen: 19.191 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY022382.D
Acq: 22 May 2025 09:36

Tgt Ion:180 Resp: 33805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 47.1 | 141.3 |
| 145 | 31.9 | 15.9 | 47.6 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | |
| Client Sample ID: | VX0521WBSD01 | SDG No.: | Q2075 |
| Lab Sample ID: | VX0521WBSD01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046288.D | 1 | | 05/21/25 11:36 | VX052125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 20.4 | | 0.15 | 1.00 | ug/L |
| 108-88-3 | Toluene | 21.1 | | 0.14 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 20.4 | | 0.13 | 1.00 | ug/L |
| 1330-20-7 | Total Xylenes | 62.1 | | 0.36 | 3.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 20.8 | | 0.12 | 1.00 | ug/L |
| 103-65-1 | n-propylbenzene | 20.7 | | 0.13 | 1.00 | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | 21.0 | | 0.15 | 1.00 | ug/L |
| 98-06-6 | tert-Butylbenzene | 20.5 | | 0.14 | 1.00 | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | 20.9 | | 0.14 | 1.00 | ug/L |
| 135-98-8 | sec-Butylbenzene | 21.1 | | 0.13 | 1.00 | ug/L |
| 99-87-6 | p-Isopropyltoluene | 20.7 | | 0.13 | 1.00 | ug/L |
| 104-51-8 | n-Butylbenzene | 20.2 | | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.2 | | 74 - 125 | 108% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 55.1 | | 75 - 124 | 110% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 54.1 | | 86 - 113 | 108% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 55.8 | | 77 - 121 | 112% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 82700 | 5.544 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 142000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 128000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 61000 | 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\VX052125\
Data File : VX046288.D
Acq On : 21 May 2025 11:36
Operator : JC/MD
Sample : VX0521WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 22 01:46:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 82656 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 142441 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 127622 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 60955 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 83584 | 54.241 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 108.480% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 56528 | 55.110 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 110.220% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 191946 | 54.067 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 108.140% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 75974 | 55.790 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 111.580% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 24490 | 19.358 | ug/l | 96 |
| 3) Chloromethane | 1.307 | 50 | 22507 | 18.346 | ug/l | 97 |
| 4) Vinyl Chloride | 1.374 | 62 | 20344 | 17.817 | ug/l | 100 |
| 5) Bromomethane | 1.599 | 94 | 9965 | 18.816 | ug/l | 100 |
| 6) Chloroethane | 1.666 | 64 | 12137 | 19.912 | ug/l | 99 |
| 7) Trichlorofluoromethane | 1.874 | 101 | 32612 | 19.326 | ug/l | 99 |
| 8) Diethyl Ether | 2.136 | 74 | 11252 | 19.587 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 20926 | 20.038 | ug/l | 100 |
| 10) Methyl Iodide | 2.447 | 142 | 22264 | 18.018 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.977 | 59 | 24113 | 111.476 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.313 | 96 | 18846 | 19.229 | ug/l | 94 |
| 13) Acrolein | 2.233 | 56 | 25786 | 104.677 | ug/l | 97 |
| 14) Allyl chloride | 2.660 | 41 | 37509 | 20.025 | ug/l | 98 |
| 15) Acrylonitrile | 3.062 | 53 | 67614 | 109.317 | ug/l | 99 |
| 16) Acetone | 2.380 | 43 | 64692 | 104.704 | ug/l | 99 |
| 17) Carbon Disulfide | 2.502 | 76 | 37246 | 16.029 | ug/l | 100 |
| 18) Methyl Acetate | 2.703 | 43 | 36070 | 25.158 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 72930 | 21.224 | ug/l | 98 |
| 20) Methylene Chloride | 2.782 | 84 | 22655 | 19.134 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 18684 | 18.956 | ug/l | 93 |
| 22) Diisopropyl ether | 3.757 | 45 | 76975 | 21.274 | ug/l | 96 |
| 23) Vinyl Acetate | 3.715 | 43 | 331115 | 104.047 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 41115 | 20.402 | ug/l | 99 |
| 25) 2-Butanone | 4.556 | 43 | 99981 | 111.462 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 30442 | 19.299 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 24067 | 20.283 | ug/l | 99 |
| 28) Bromochloromethane | 4.891 | 49 | 22324 | 23.013 | ug/l | 97 |
| 29) Tetrahydrofuran | 5.001 | 42 | 62788 | 111.706 | ug/l | 97 |
| 30) Chloroform | 5.086 | 83 | 44742 | 21.300 | ug/l | 98 |
| 31) Cyclohexane | 5.458 | 56 | 34352 | 18.706 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 5.379 | 97 | 37409 | 20.545 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 5.690 | 75 | 27211 | 19.744 | ug/l | 99 |
| 37) Ethyl Acetate | 4.715 | 43 | 35103 | 20.616 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.672 | 117 | 30855 | 19.926 | ug/l | 92 |
| 39) Methylcyclohexane | 7.373 | 83 | 32873 | 18.528 | ug/l | 98 |
| 40) Benzene | 6.031 | 78 | 82429 | 20.420 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046288.D
Acq On : 21 May 2025 11:36
Operator : JC/MD
Sample : VX0521WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 22 01:46:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.922 | 41 | 19792 | 22.220 | ug/l | | 95 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 37969 | 21.793 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.336 | 43 | 58546 | 22.538 | ug/l | | 99 |
| 44) Trichloroethene | 7.117 | 130 | 19812 | 20.392 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 7.428 | 63 | 21442 | 21.361 | ug/l | | 96 |
| 46) Dibromomethane | 7.580 | 93 | 16936 | 21.392 | ug/l | | 100 |
| 47) Bromodichloromethane | 7.818 | 83 | 33671 | 21.594 | ug/l | | 100 |
| 48) Methyl methacrylate | 7.690 | 41 | 29893 | 22.533 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.659 | 88 | 11652 | 462.585 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 8.568 | 43 | 197701 | 114.659 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 52163 | 21.074 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 28516 | 20.575 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 31756 | 20.731 | ug/l | | 95 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 22182 | 22.727 | ug/l | | 97 |
| 56) Ethyl methacrylate | 9.116 | 69 | 35144 | 22.593 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 37913 | 21.629 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 92402 | 116.515 | ug/l | | 99 |
| 59) 2-Hexanone | 9.427 | 43 | 147719 | 115.798 | ug/l | | 99 |
| 60) Dibromochloromethane | 9.519 | 129 | 23942 | 22.336 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 21638 | 21.330 | ug/l | | 95 |
| 64) Tetrachloroethene | 9.269 | 164 | 19011 | 21.054 | ug/l | | 96 |
| 65) Chlorobenzene | 10.073 | 112 | 56756 | 20.318 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 19864 | 20.825 | ug/l | | 98 |
| 67) Ethyl Benzene | 10.189 | 91 | 100205 | 20.351 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 74017 | 41.100 | ug/l | | 97 |
| 69) o-Xylene | 10.640 | 106 | 36854 | 20.991 | ug/l | | 98 |
| 70) Styrene | 10.653 | 104 | 61684 | 21.448 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 14675 | 20.492 | ug/l | # | 97 |
| 73) Isopropylbenzene | 10.957 | 105 | 98613 | 20.780 | ug/l | | 99 |
| 74) N-amyl acetate | 10.842 | 43 | 48166 | 20.540 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 34432 | 20.705 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 30516m | 20.799 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 22527 | 20.447 | ug/l | | 98 |
| 78) n-propylbenzene | 11.299 | 91 | 114085 | 20.676 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 72593 | 20.397 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 83425 | 21.043 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 8892 | 19.731 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 83368 | 21.123 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.713 | 119 | 81866 | 20.500 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 84105 | 20.949 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 103412 | 21.090 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 83642 | 20.666 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 41719 | 20.748 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 41622 | 20.269 | ug/l | | 97 |
| 89) n-Butylbenzene | 12.329 | 91 | 71821 | 20.230 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 13808 | 19.365 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 41689 | 20.661 | ug/l | | 97 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75 | 7612 | 20.662 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 22227 | 19.179 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 10376 | 20.500 | ug/l | | 94 |
| 95) Naphthalene | 13.774 | 128 | 84035 | 19.771 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 23310 | 19.493 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046288.D
Acq On : 21 May 2025 11:36
Operator : JC/MD
Sample : VX0521WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 22 01:46:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

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

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

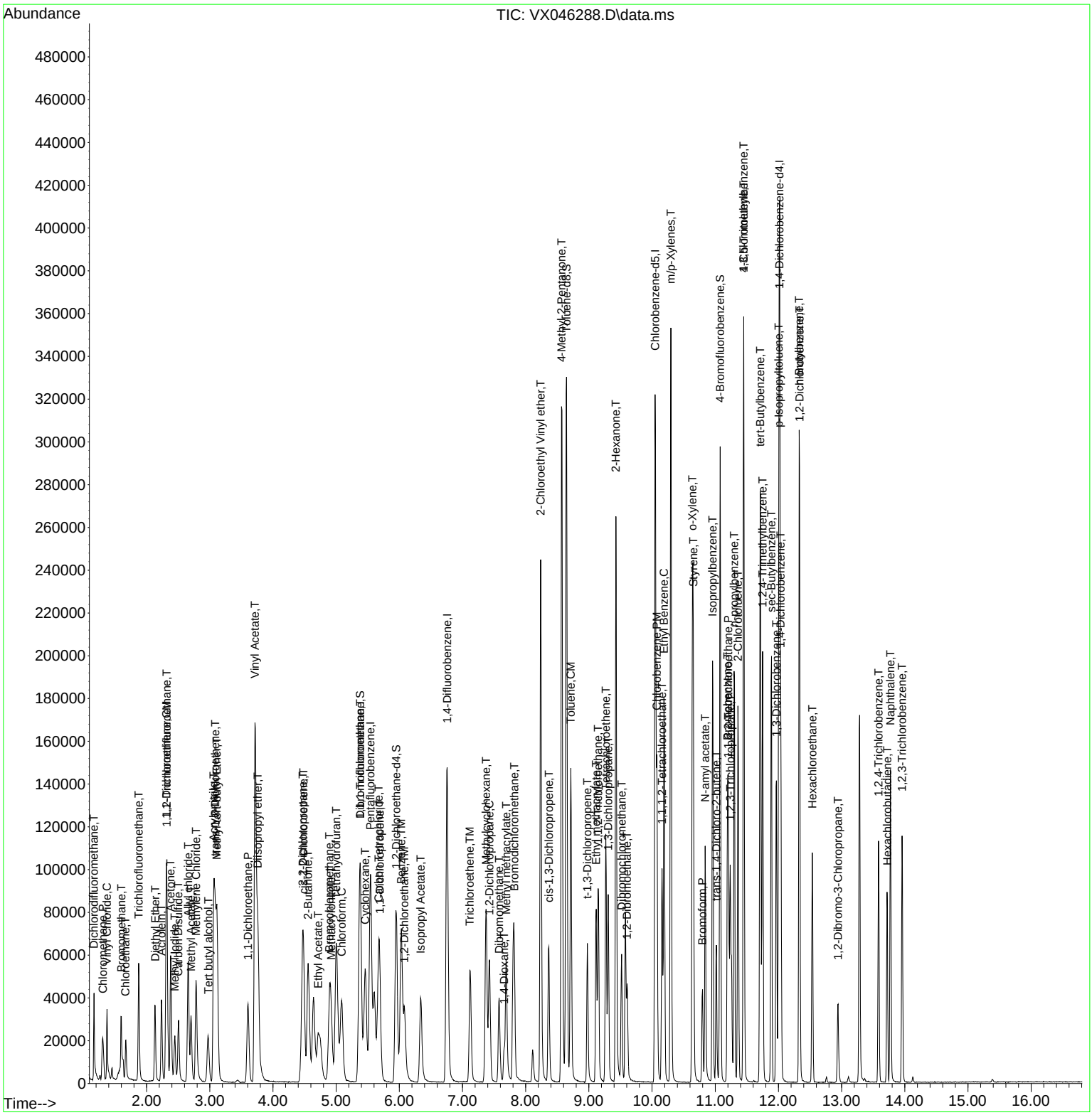
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052125\
Data File : VX046288.D
Acq On : 21 May 2025 11:36
Operator : JC/MD
Sample : VX0521WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

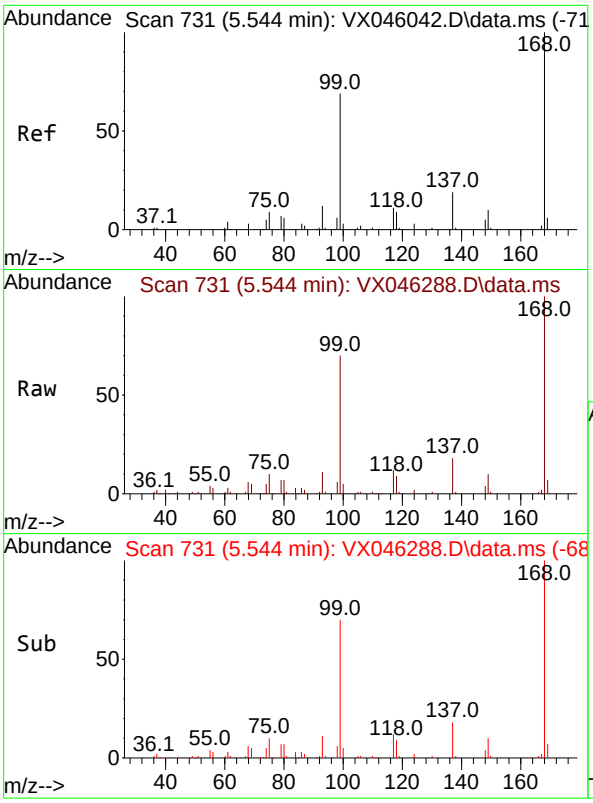
Quant Time: May 22 01:46:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

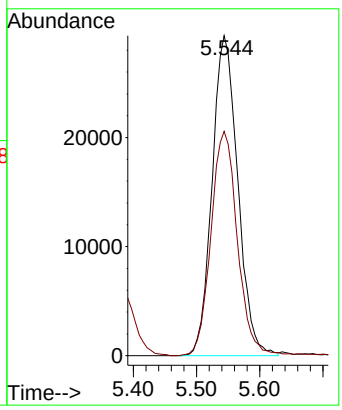





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:168 Resp: 8265

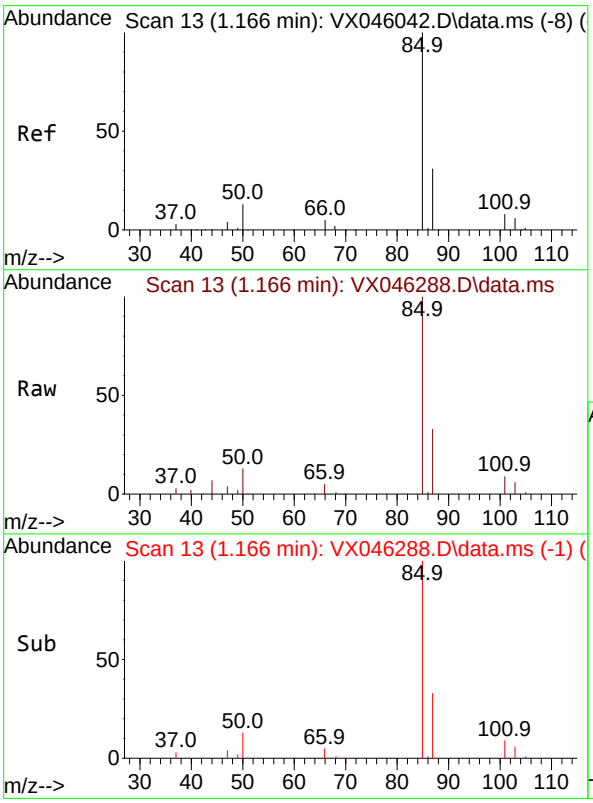
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 70.1 | 54.9 | 82.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
**APPROVED**

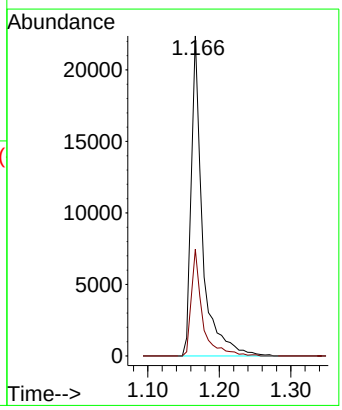
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

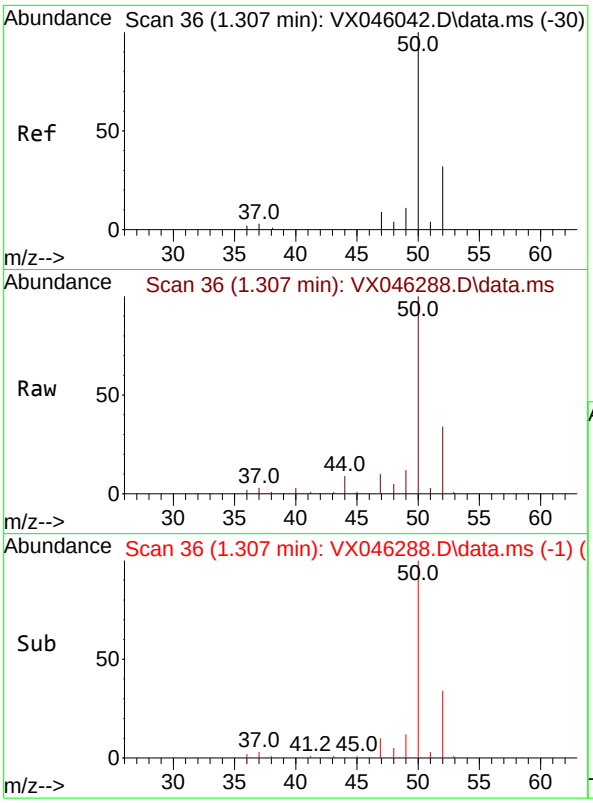



#2
Dichlorodifluoromethane
Concen: 19.358 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 85 Resp: 24490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.4 | 15.7 | 47.1 |

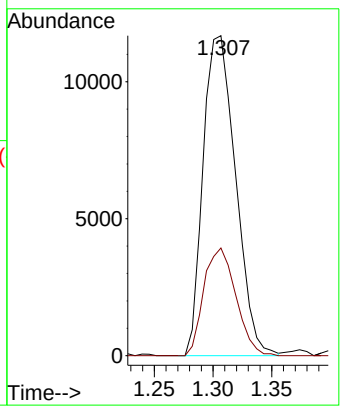





#3
Chloromethane
Concen: 18.346 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 50 Resp: 2250

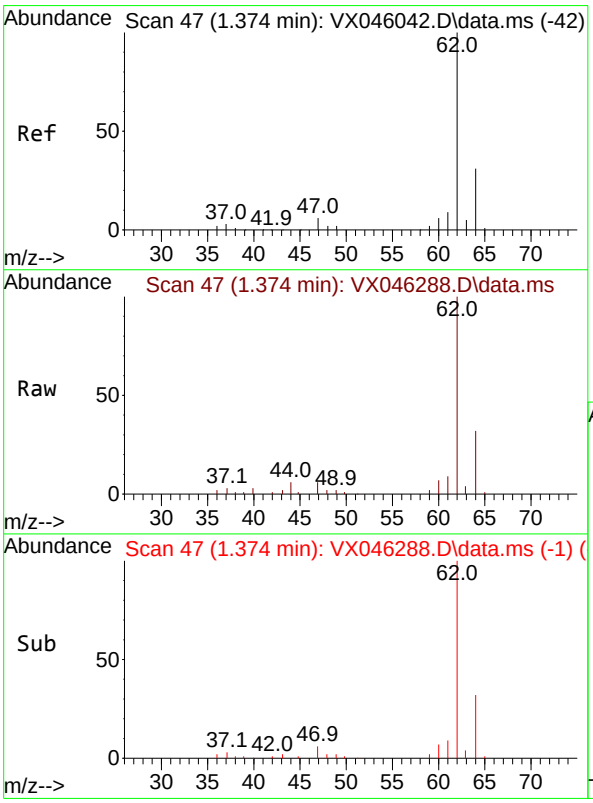
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.7 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
**APPROVED**

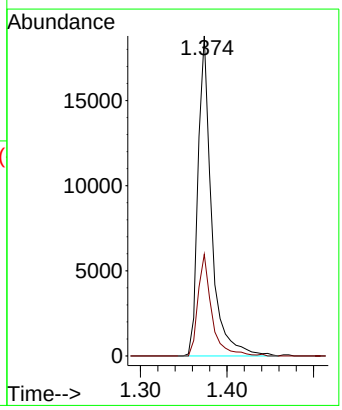
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

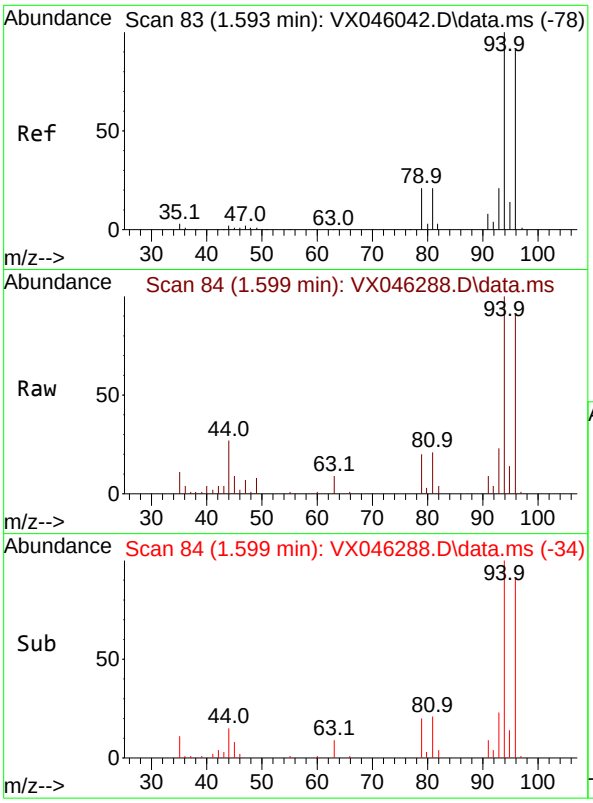



#4
Vinyl Chloride
Concen: 17.817 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 62 Resp: 20344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 25.2 | 37.8 |

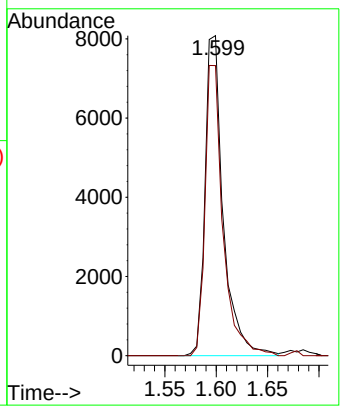





#5
Bromomethane
Concen: 18.816 ug/l
RT: 1.599 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 94 Resp: 996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 90.7 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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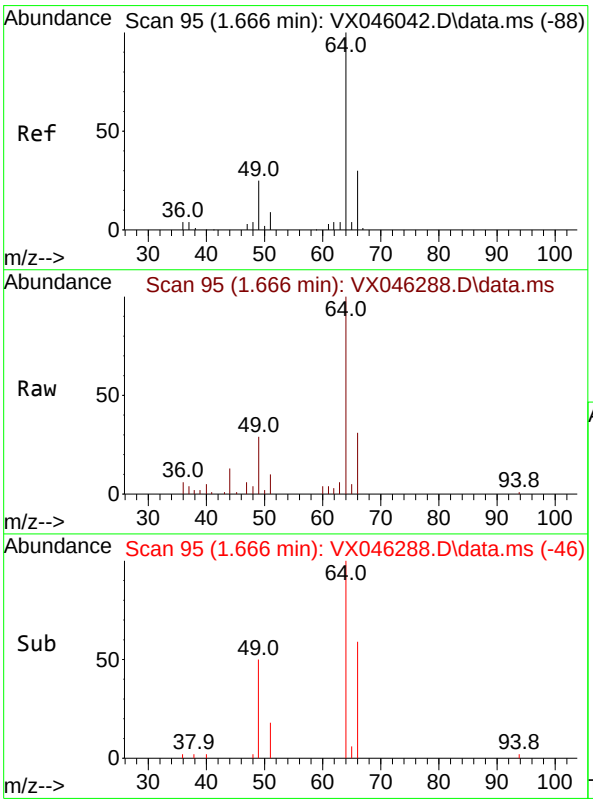
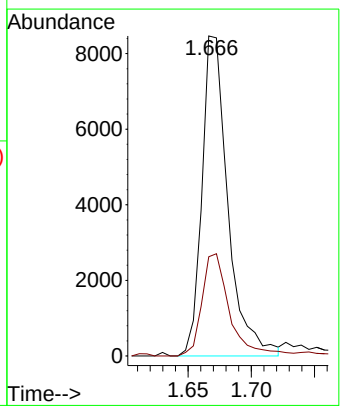
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

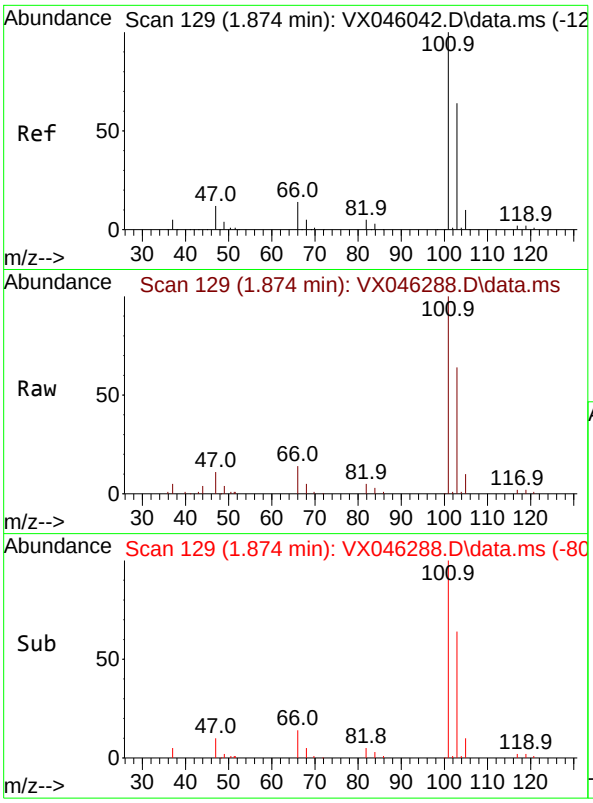



#6
Chloroethane
Concen: 19.912 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 64 Resp: 12137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.0 | 24.3 | 36.5 |

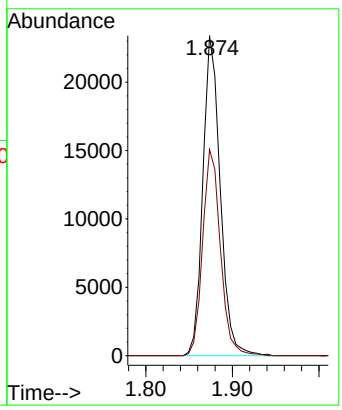





#7
Trichlorofluoromethane
Concen: 19.326 ug/l
RT: 1.874 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:101 Resp: 3261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.4 | 51.0 | 76.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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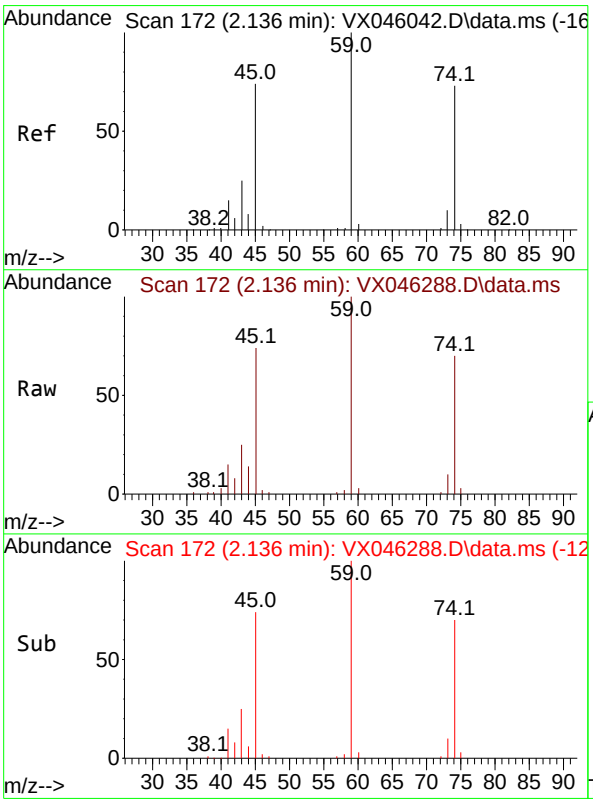
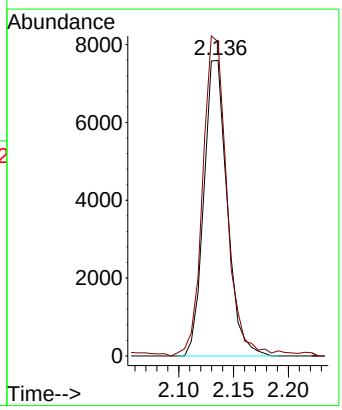
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

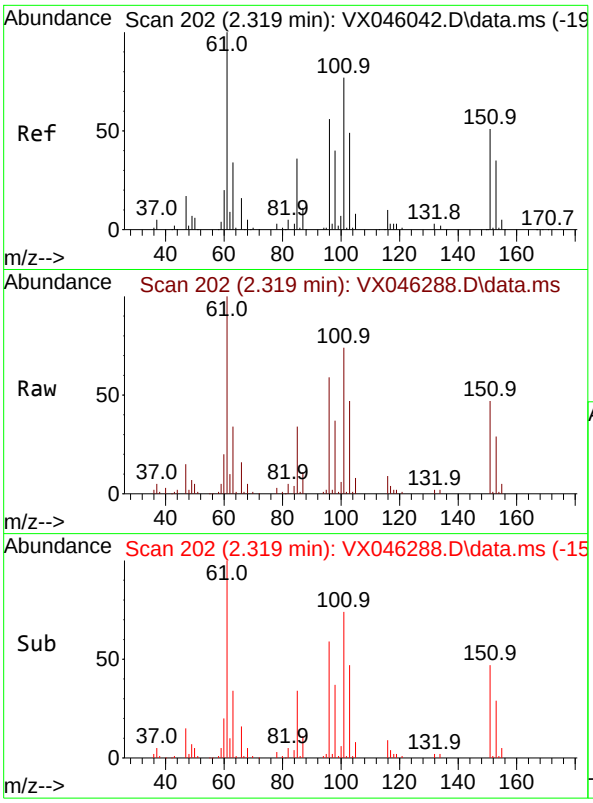



#8
Diethyl Ether
Concen: 19.587 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 74 Resp: 11252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 113.6 | 54.9 | 164.8 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.038 ug/l
RT: 2.319 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:101 Resp: 2092(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 48.2 | 38.6 | 58.0 |
| 151 | 69.4 | 55.2 | 82.8 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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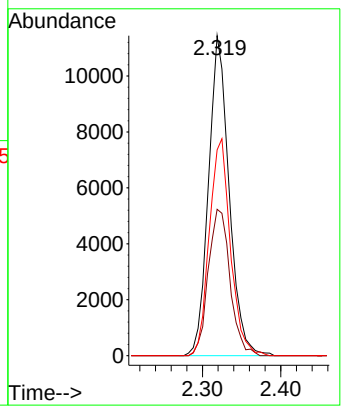
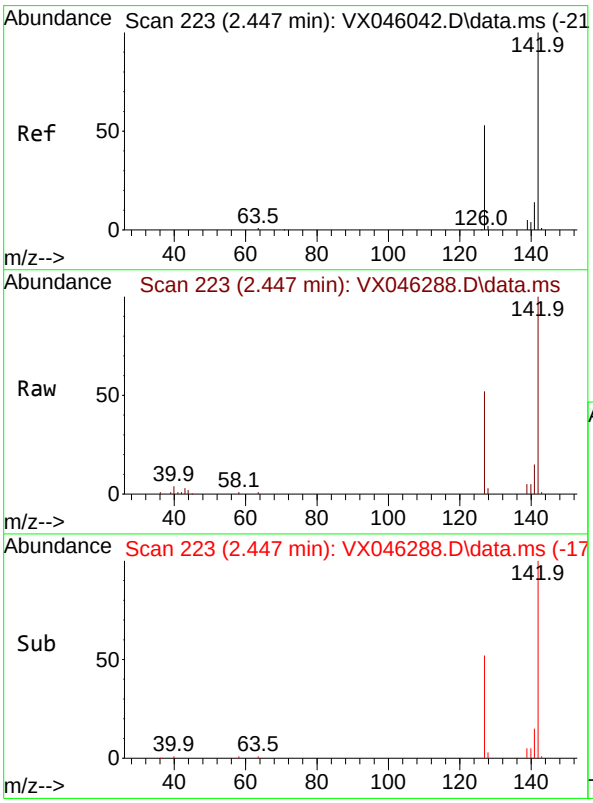
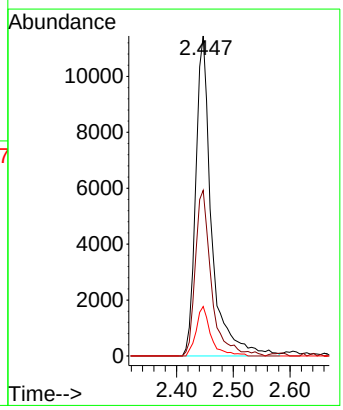


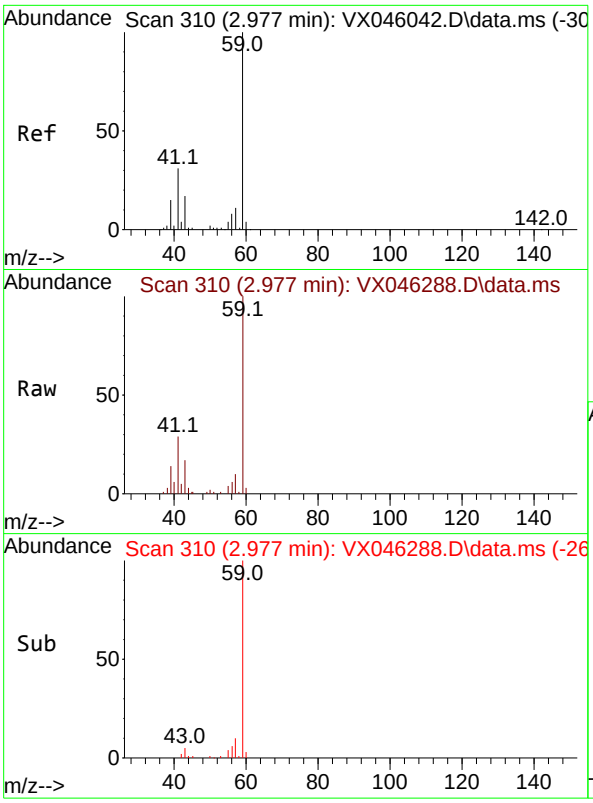




#10
Methyl Iodide
Concen: 18.018 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:142 Resp: 22264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 52.5 | 41.7 | 62.5 |
| 141 | 14.4 | 11.5 | 17.3 |

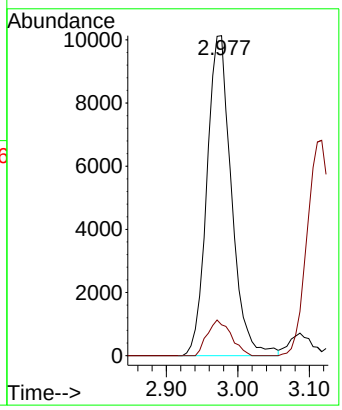





#11
Tert butyl alcohol
Concen: 111.476 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 59 Resp: 2411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.6 | 12.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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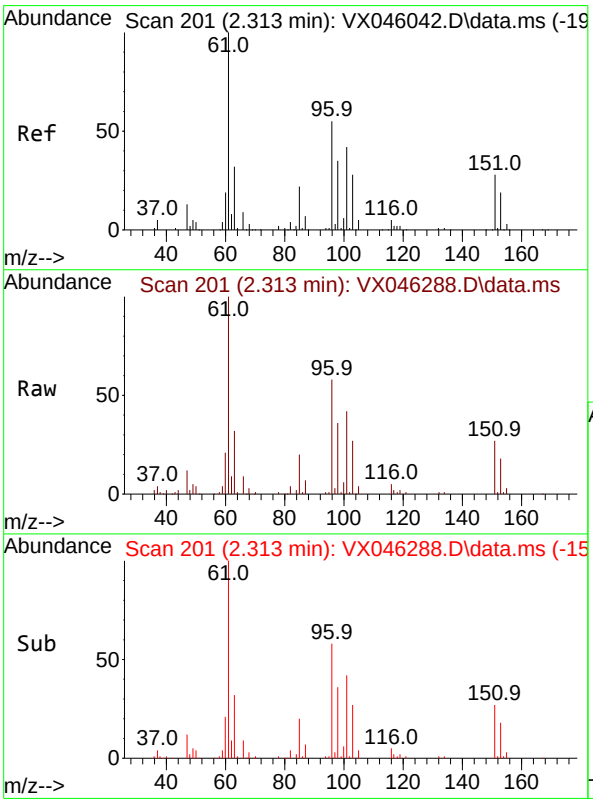
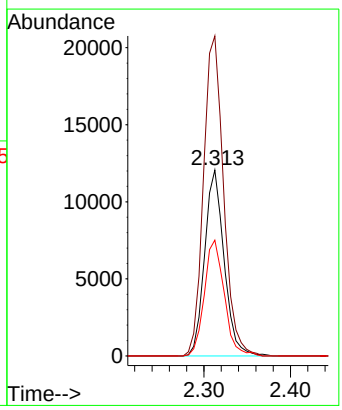
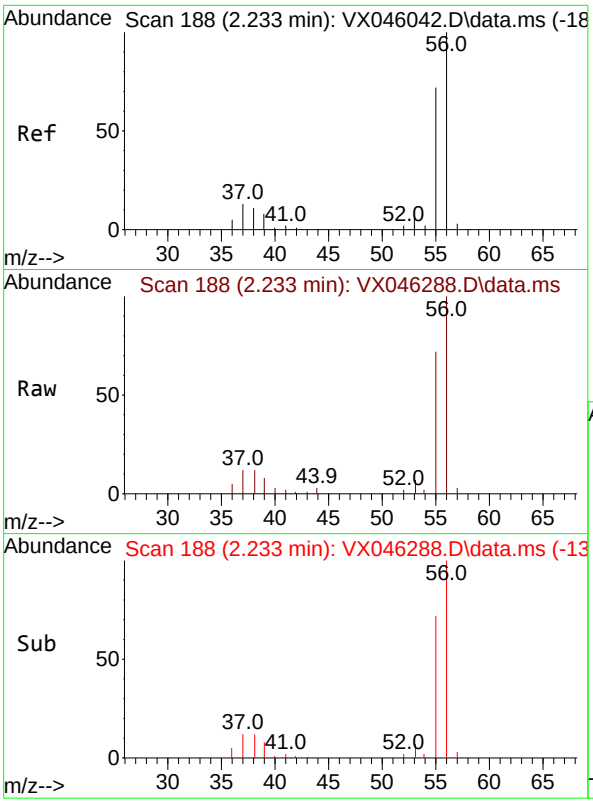



#12
1,1-Dichloroethene
Concen: 19.229 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 96 Resp: 18846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 172.2 | 146.2 | 219.2 |
| 98 | 62.4 | 51.0 | 76.6 |

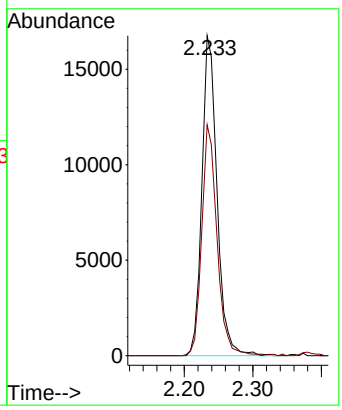





#13
Acrolein
Concen: 104.677 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 56 Resp: 2578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.5 | 56.2 | 84.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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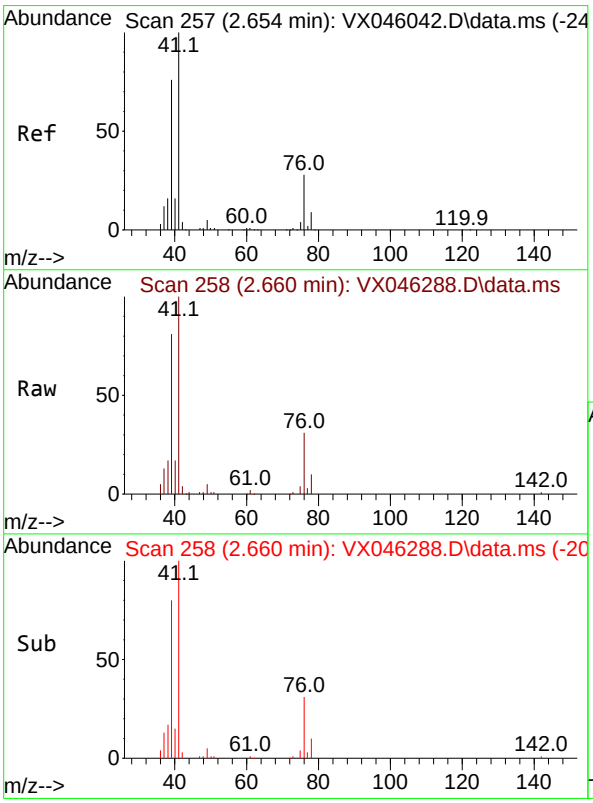
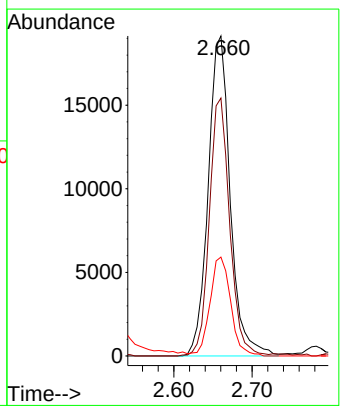
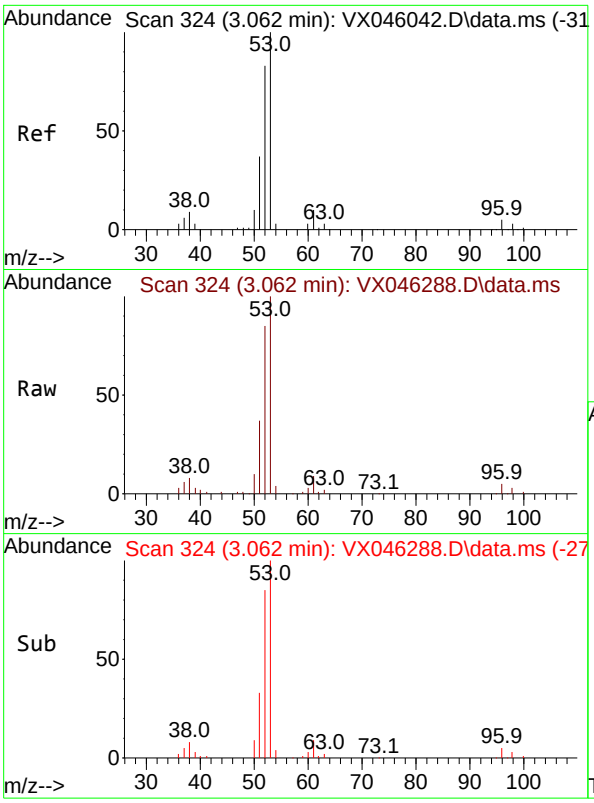



#14
Allyl chloride
Concen: 20.025 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 41 Resp: 37509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 74.2 | 60.6 | 90.8 |
| 76 | 29.0 | 24.9 | 37.3 |

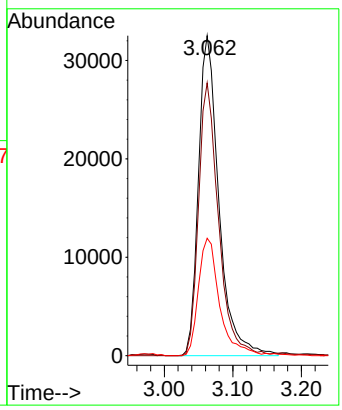





#15
Acrylonitrile
Concen: 109.317 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 53 Resp: 6761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.2 | 65.3 | 97.9 |
| 51 | 37.8 | 29.8 | 44.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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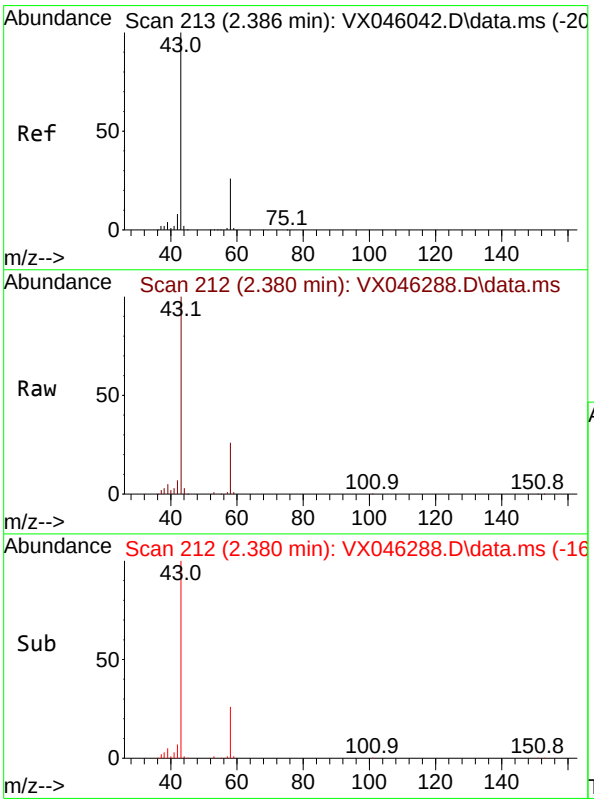
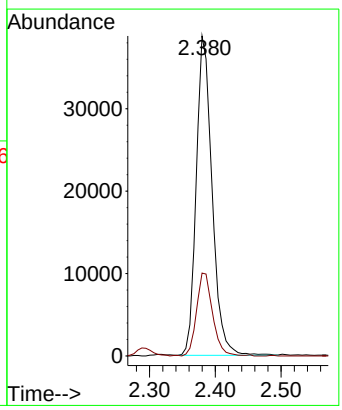
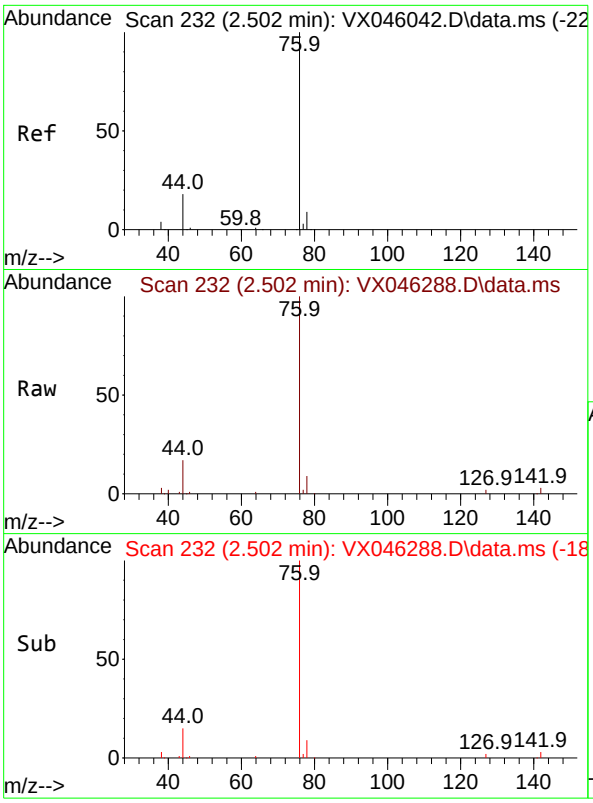



#16
Acetone
Concen: 104.704 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 43 Resp: 64692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.0 | 21.2 | 31.8 |






#17
Carbon Disulfide
Concen: 16.029 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 76 Resp: 3724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 7.0 | 10.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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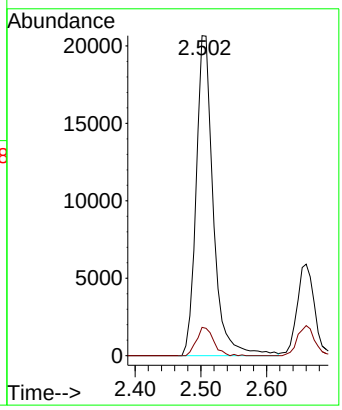
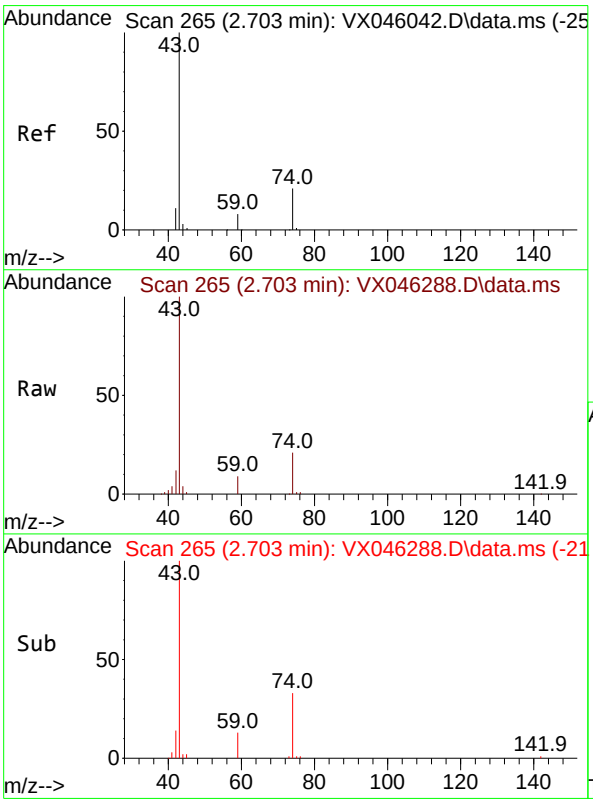
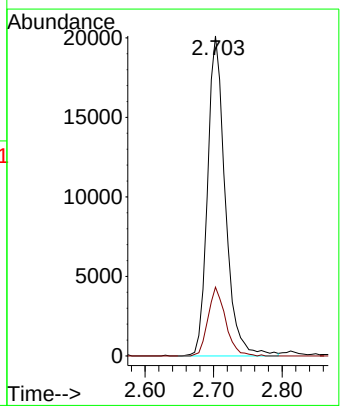


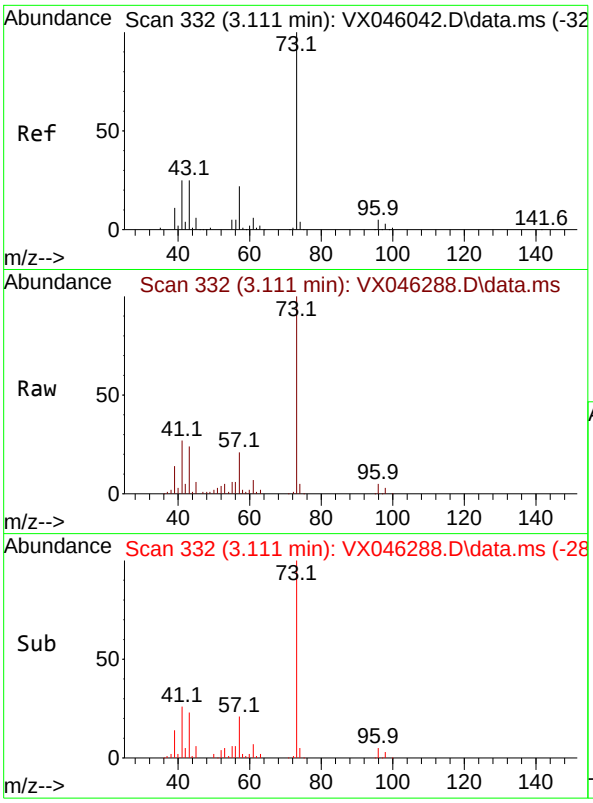




#18
Methyl Acetate
Concen: 25.158 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 43 Resp: 36070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 21.4 | 16.7 | 25.1 |

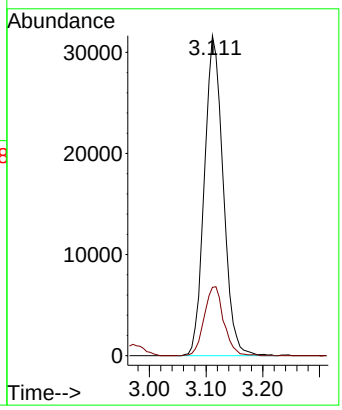





#19
Methyl tert-butyl Ether
Concen: 21.224 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 73 Resp: 7293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.4 | 17.7 | 26.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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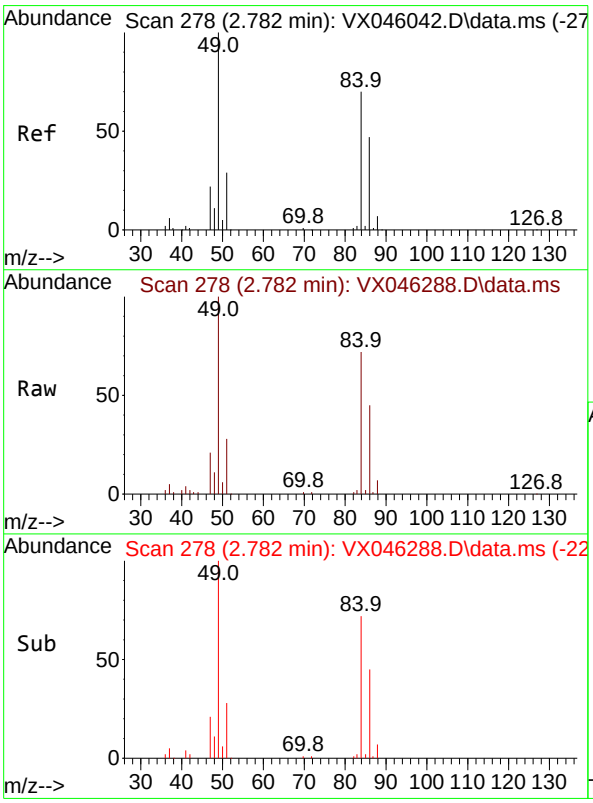
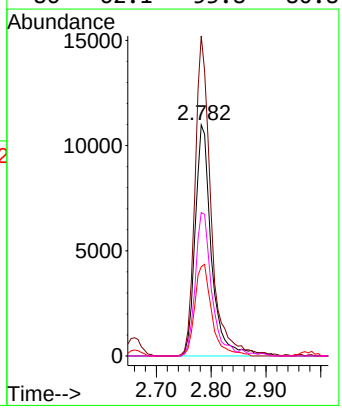
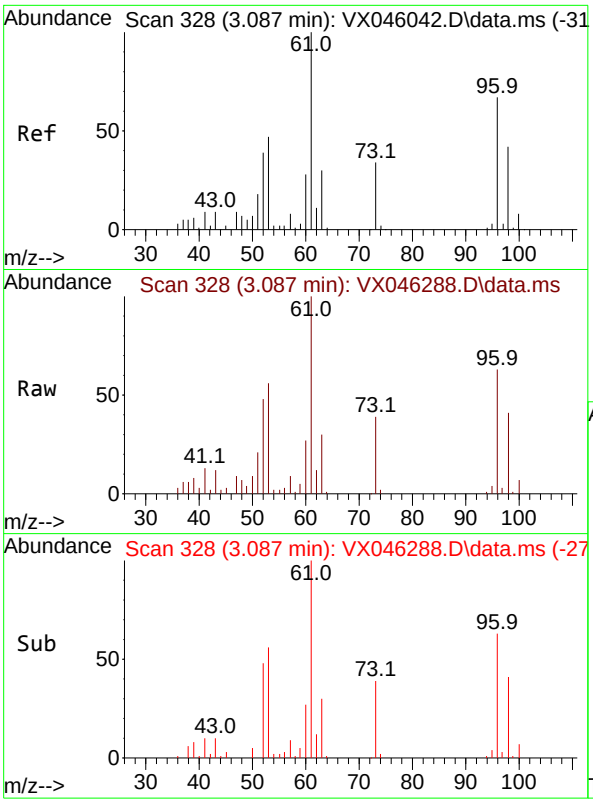



#20
Methylene Chloride
Concen: 19.134 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 84 Resp: 22655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 138.5 | 113.9 | 170.9 |
| 51 | 38.7 | 33.5 | 50.3 |
| 86 | 62.1 | 53.8 | 80.8 |

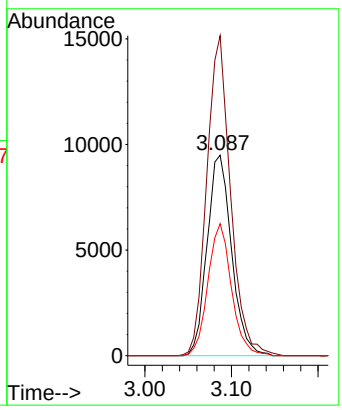





#21
trans-1,2-Dichloroethene
Concen: 18.956 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 96 Resp: 1868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 159.6 | 119.5 | 179.3 |
| 98 | 65.8 | 50.0 | 75.0 |




**Instrument :**
MSVOA_X
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VX0521WBSD01

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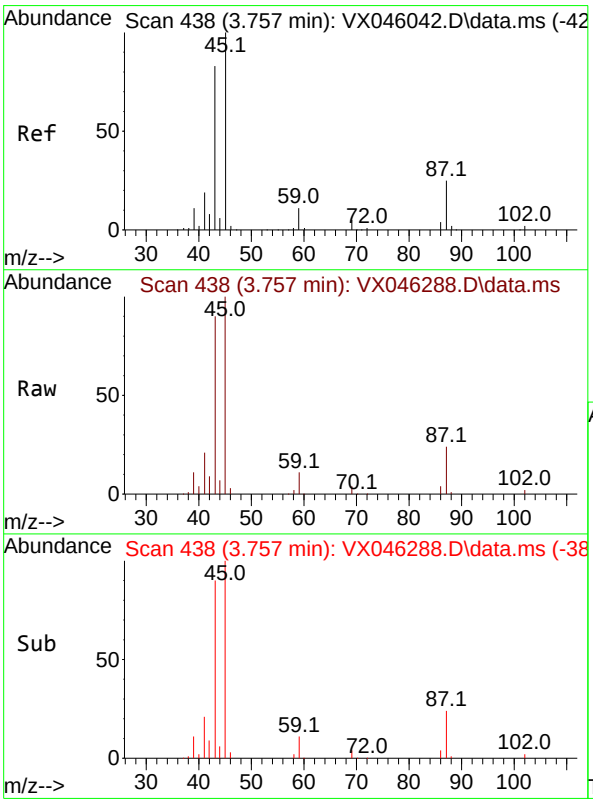
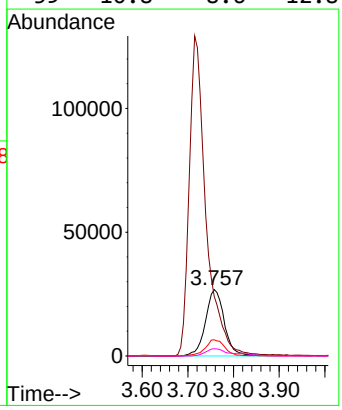
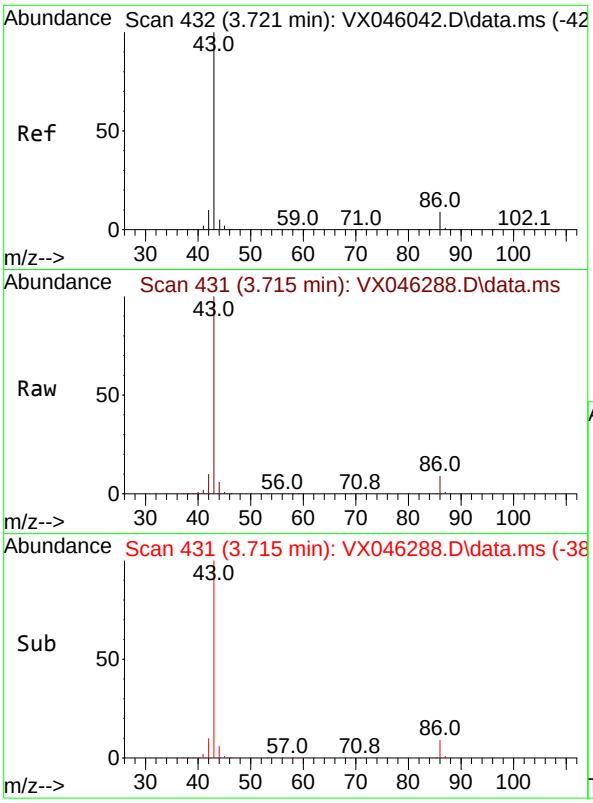



#22
Diisopropyl ether
Concen: 21.274 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 45 Resp: 76975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 88.2 | 66.6 | 100.0 |
| 87 | 24.4 | 19.8 | 29.6 |
| 59 | 10.8 | 8.6 | 12.8 |






#23
Vinyl Acetate
Concen: 104.047 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

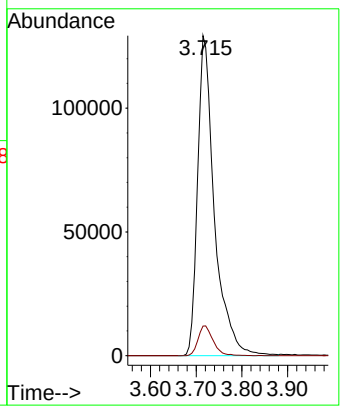
Tgt Ion: 43 Resp: 33111

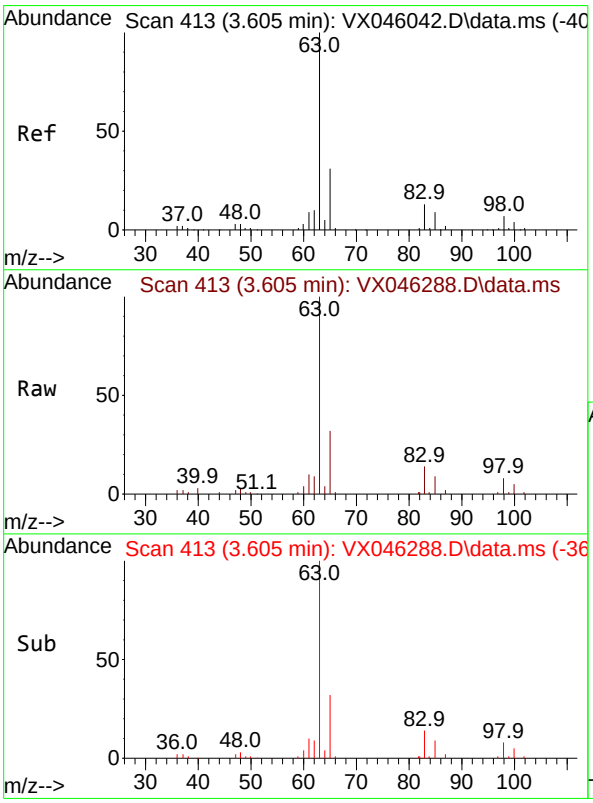
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.2 | 7.5 | 11.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

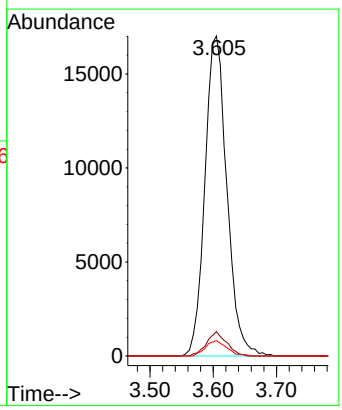


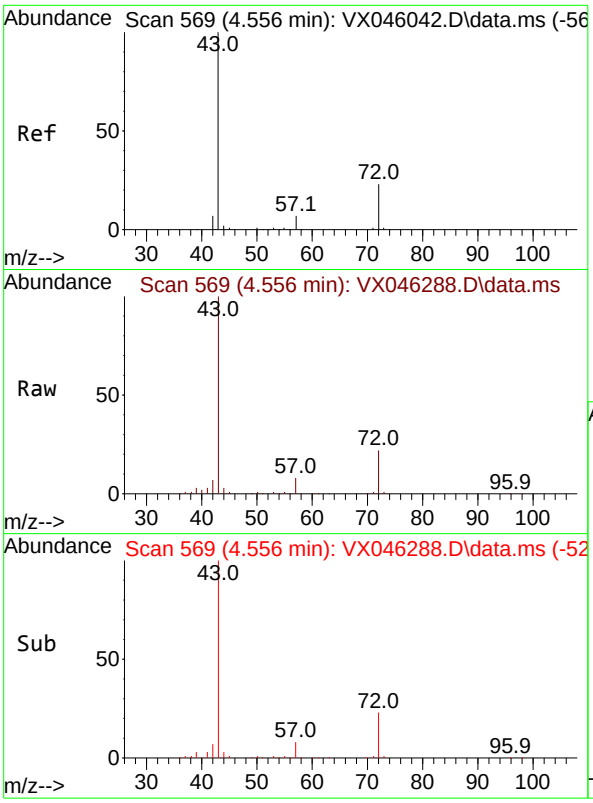




#24
1,1-Dichloroethane
Concen: 20.402 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 63 Resp: 41115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.6 | 3.6 | 10.8 |
| 100 | 4.8 | 2.1 | 6.3 |

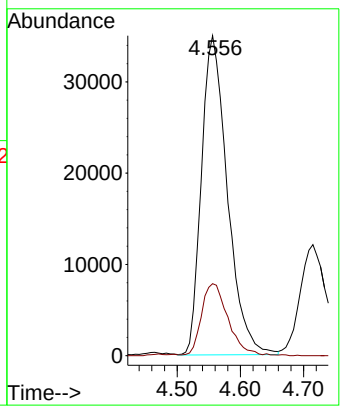





#25
2-Butanone
Concen: 111.462 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 43 Resp: 9998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.4 | 18.4 | 27.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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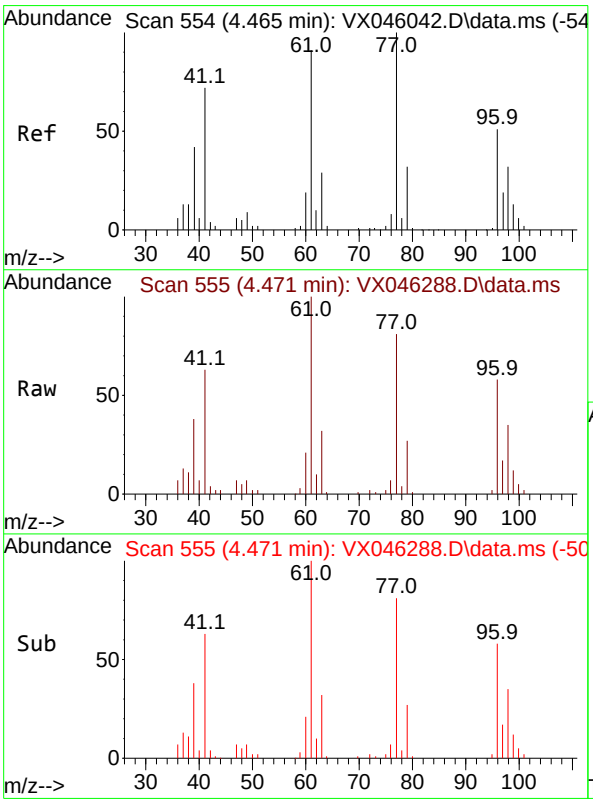
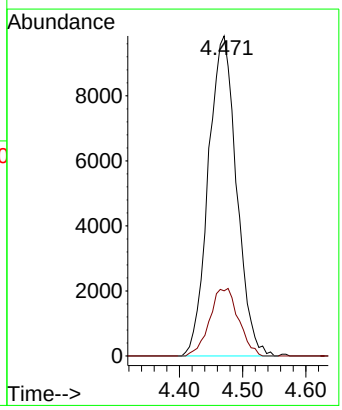
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

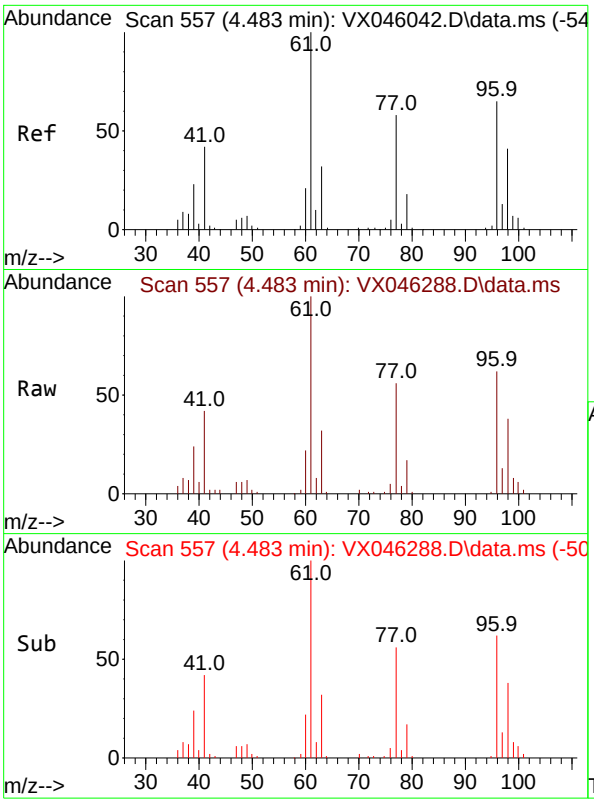



#26
2,2-Dichloropropane
Concen: 19.299 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 77 Resp: 30442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.6 | 10.5 | 31.5 |

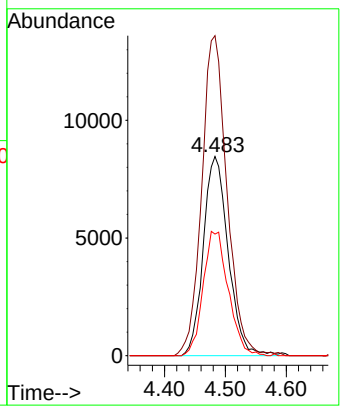





#27
cis-1,2-Dichloroethene
Concen: 20.283 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 96 Resp: 2406

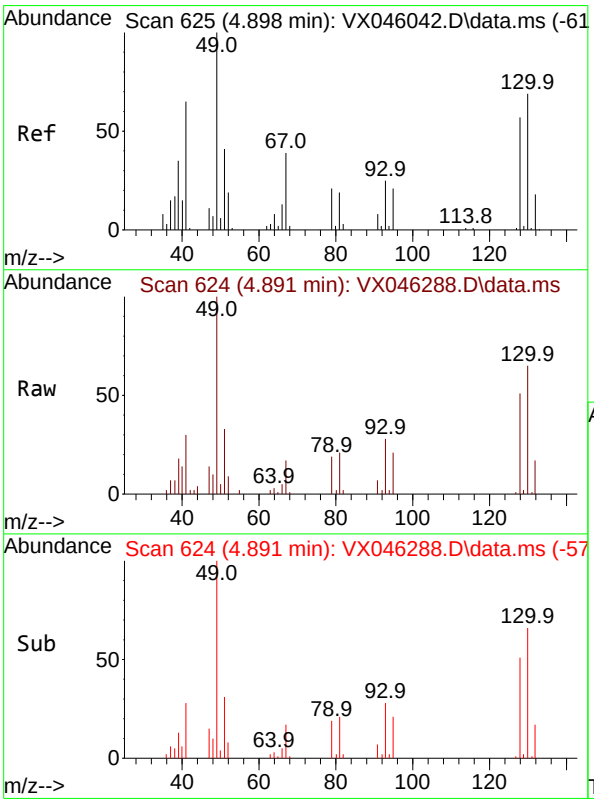
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 163.1 | 0.0 | 322.8 |
| 98 | 63.0 | 0.0 | 129.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
**APPROVED**

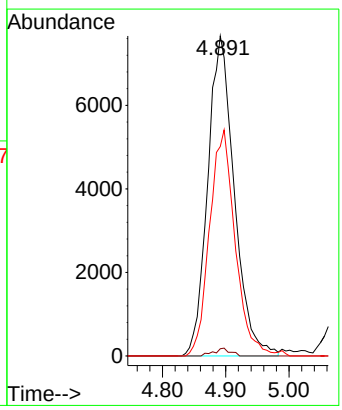
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

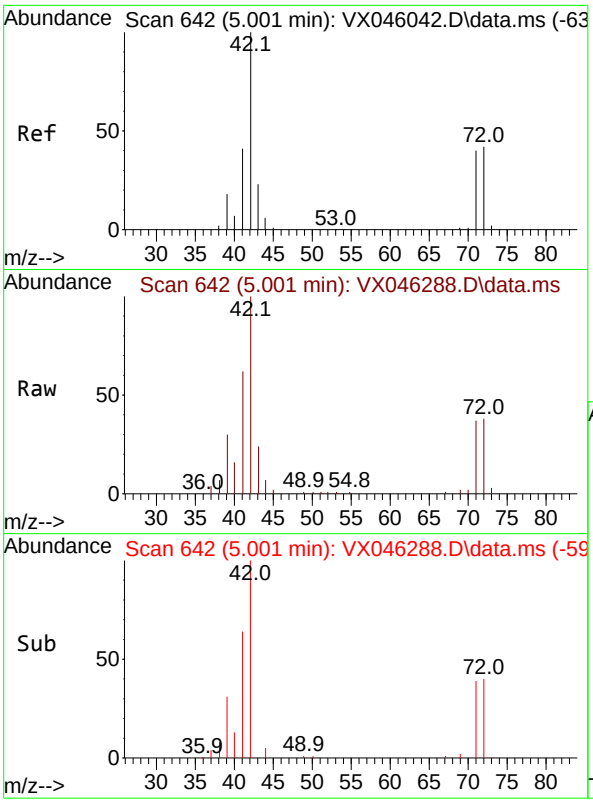



#28
Bromochloromethane
Concen: 23.013 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 49 Resp: 22324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.5 | 0.0 | 4.0 |
| 130 | 67.8 | 56.2 | 84.2 |






#29
Tetrahydrofuran
Concen: 111.706 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

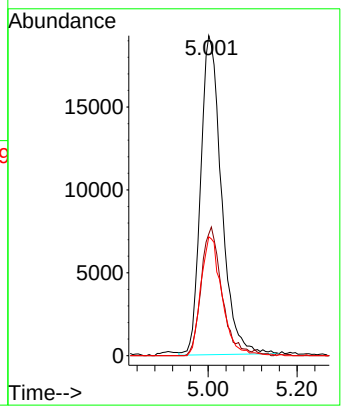
Tgt Ion: 42 Resp: 6278

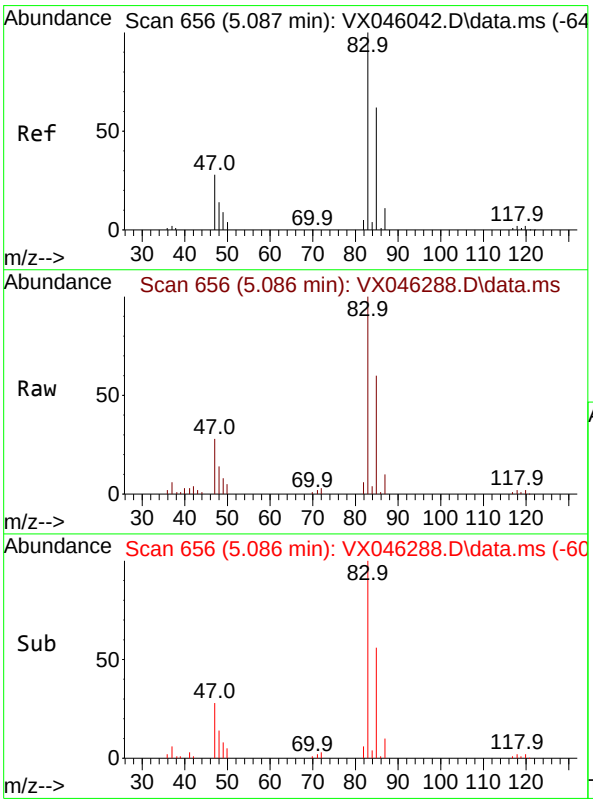
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.9 | 33.7 | 50.5 |
| 71 | 37.8 | 31.4 | 47.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

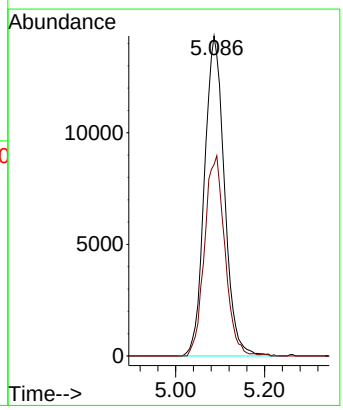


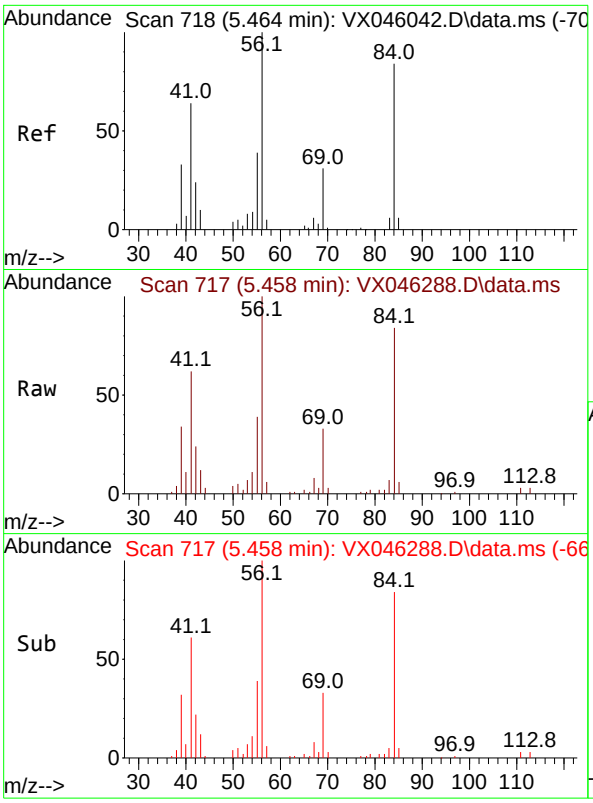




#30
Chloroform
Concen: 21.300 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 83 Resp: 44742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 59.8 | 49.3 | 73.9 |

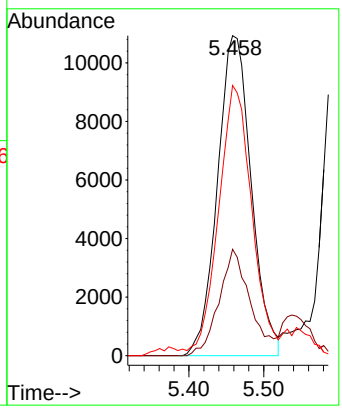





#31
Cyclohexane
Concen: 18.706 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 56 Resp: 3435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 33.2 | 24.4 | 36.6 |
| 84 | 82.9 | 66.9 | 100.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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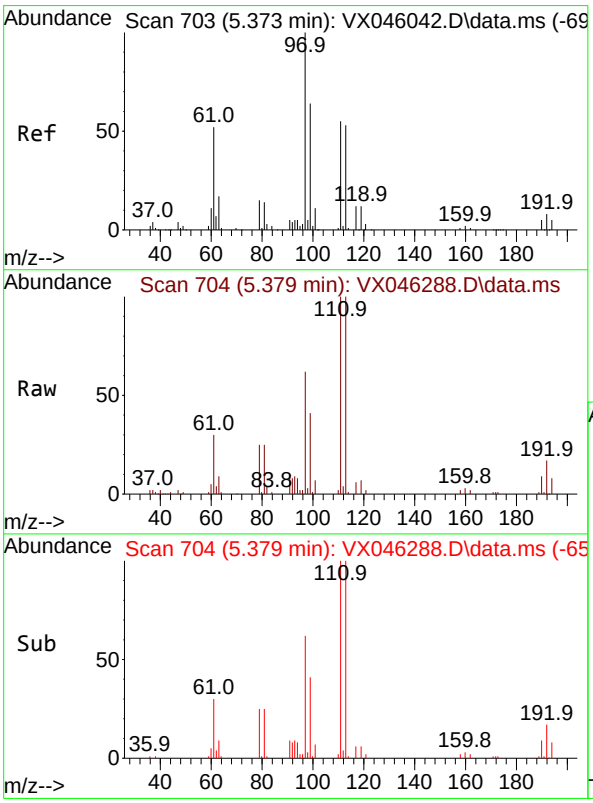
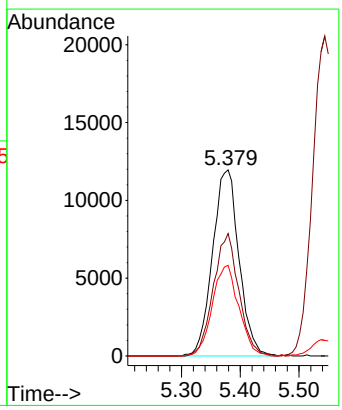
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

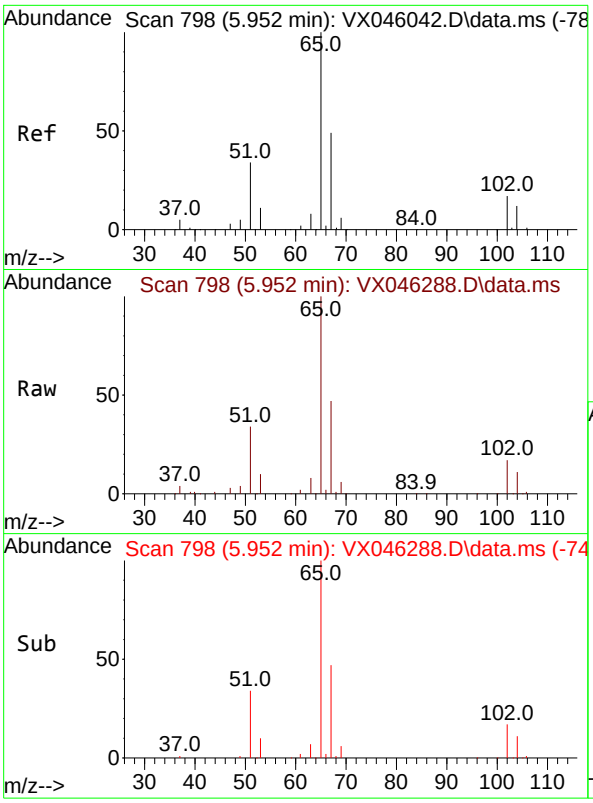



#32
1,1,1-Trichloroethane
Concen: 20.545 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 97 Resp: 37409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.2 | 51.8 | 77.6 |
| 61 | 48.8 | 40.1 | 60.1 |

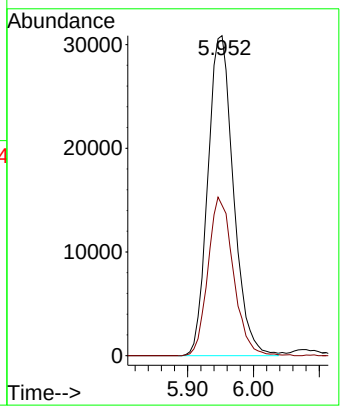





#33
1,2-Dichloroethane-d4
Concen: 54.241 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 65 Resp: 8358

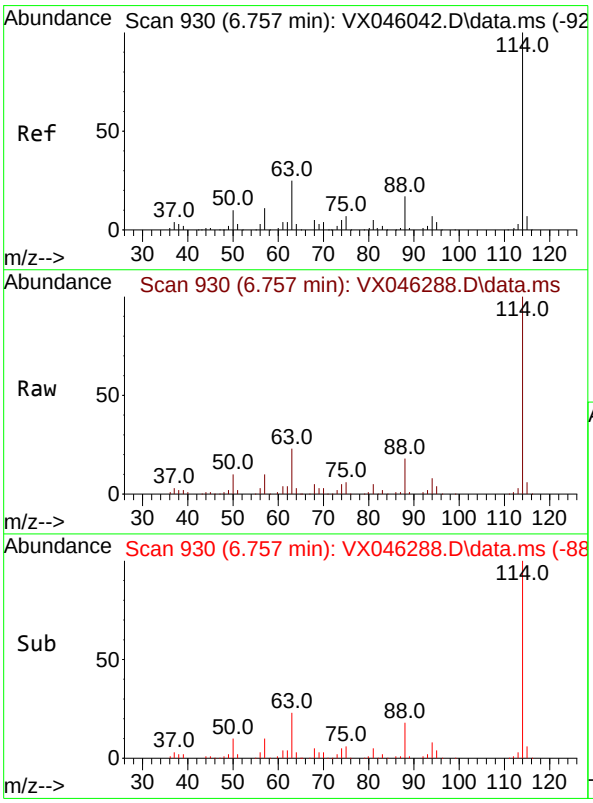
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.2 | 0.0 | 99.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
**APPROVED**

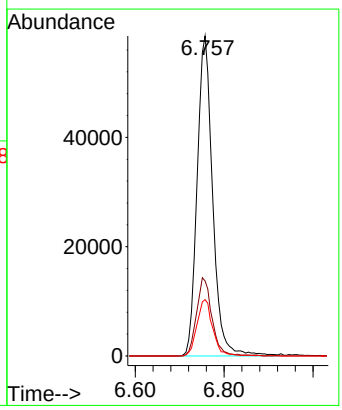
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

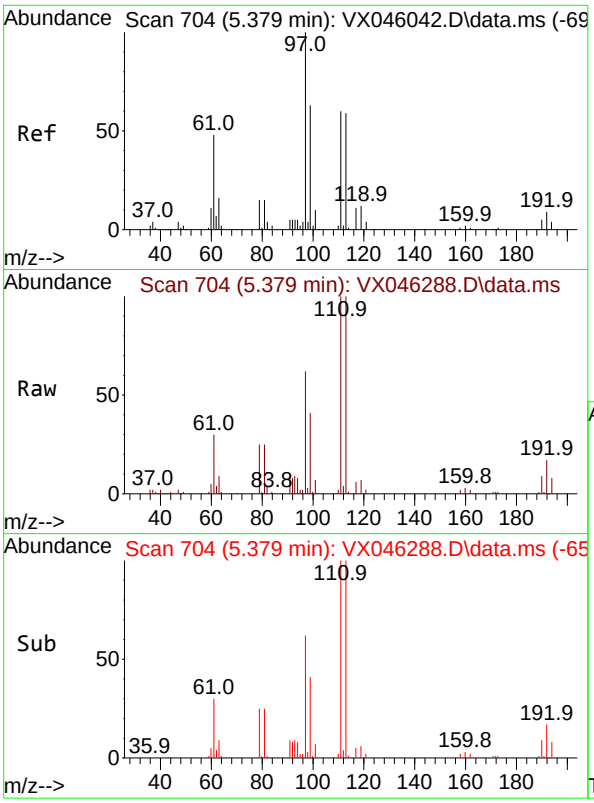



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:114 Resp: 142441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.5 | 0.0 | 49.2 |
| 88 | 17.6 | 0.0 | 33.6 |

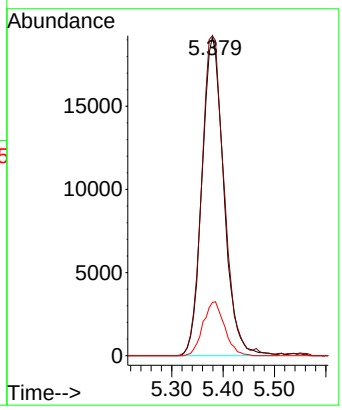





#35
Dibromofluoromethane
Concen: 55.110 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:113 Resp: 5652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 83.1 | 124.7 |
| 192 | 16.7 | 13.3 | 19.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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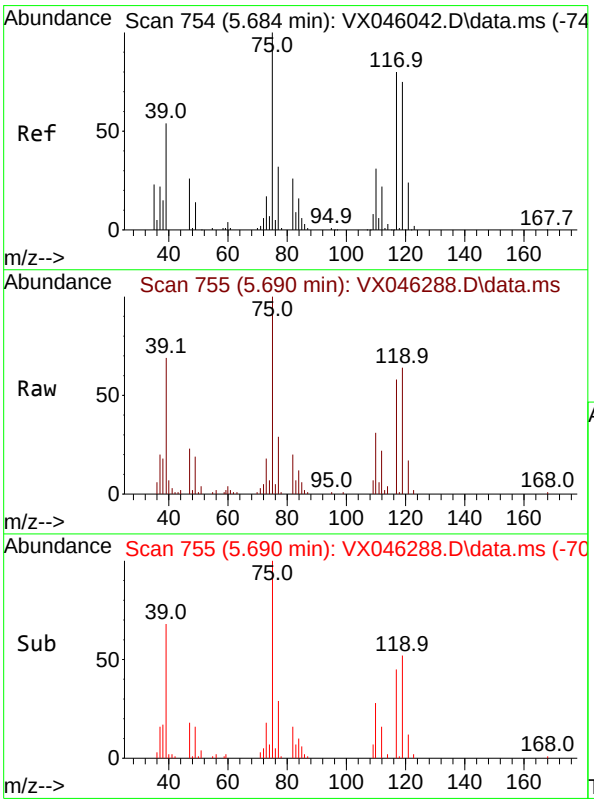
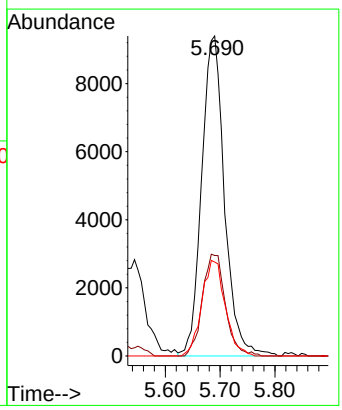
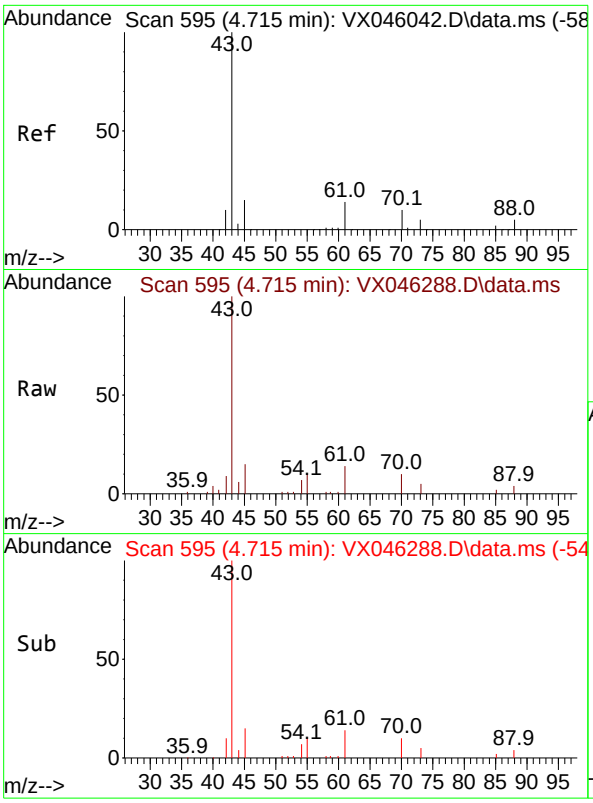



#36
1,1-Dichloropropene
Concen: 19.744 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 75 Resp: 27211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 31.9 | 16.3 | 48.9 |
| 77 | 30.6 | 24.3 | 36.5 |

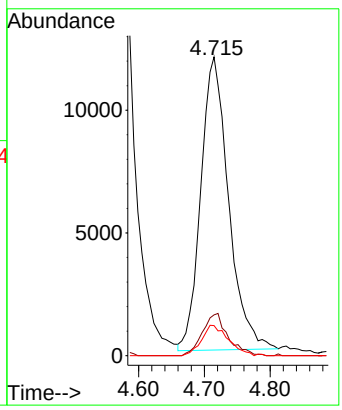





#37
Ethyl Acetate
Concen: 20.616 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 43 Resp: 3510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.2 | 10.3 | 15.5 |
| 70 | 10.1 | 7.9 | 11.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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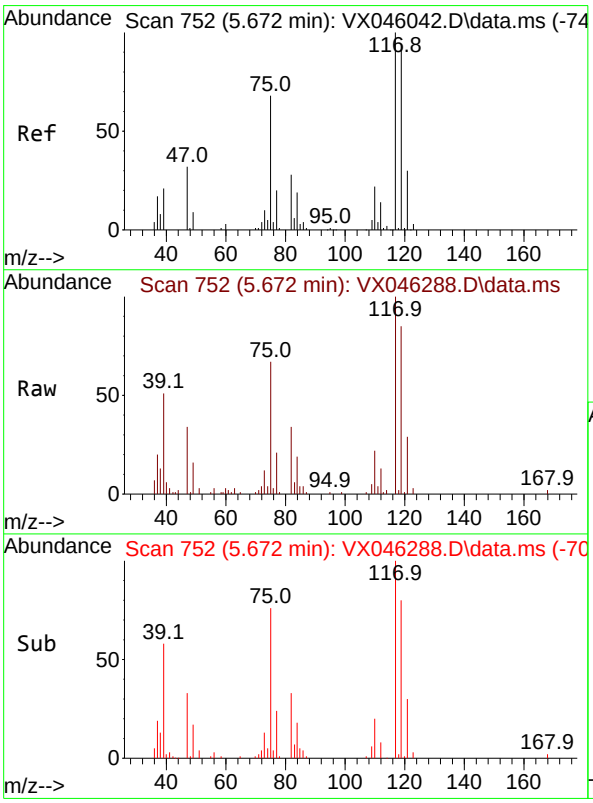
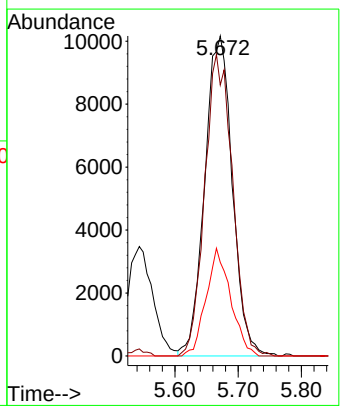
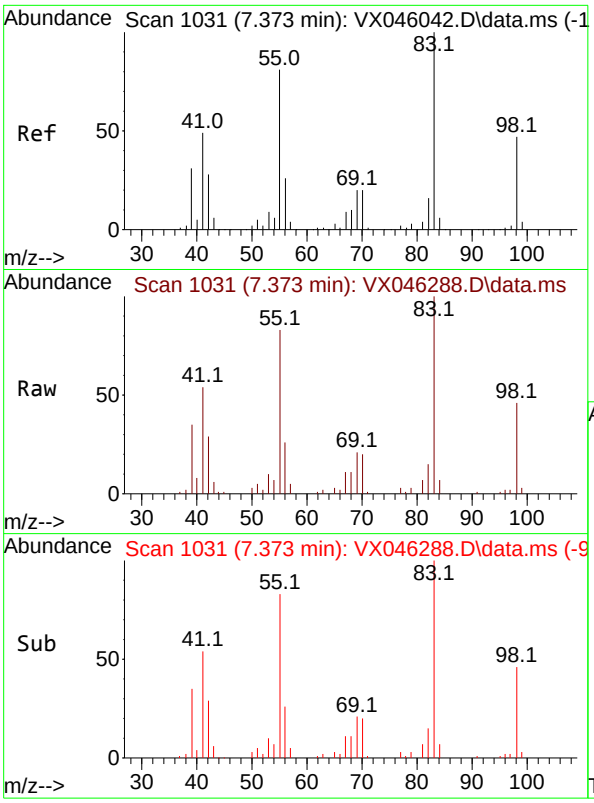



#38
Carbon Tetrachloride
Concen: 19.926 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:117 Resp: 30855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 84.6 | 75.2 | 112.8 |
| 121 | 29.2 | 24.2 | 36.4 |

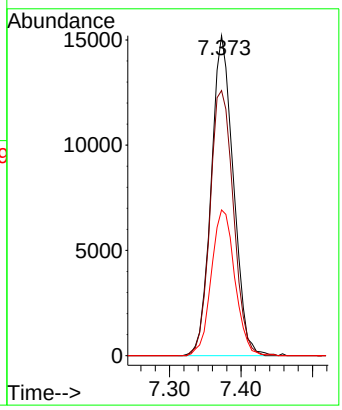





#39
Methylcyclohexane
Concen: 18.528 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 83 Resp: 3287

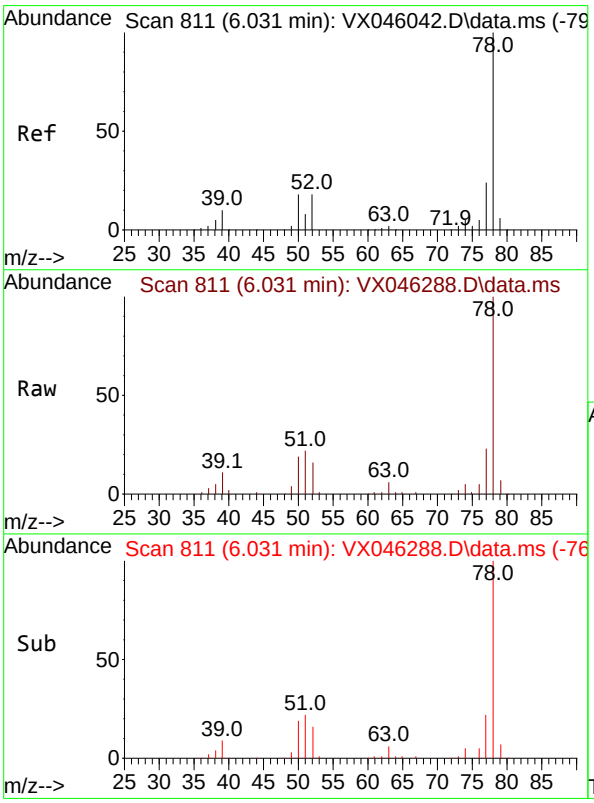
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 82.8 | 64.7 | 97.1 |
| 98 | 45.5 | 37.4 | 56.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
**APPROVED**

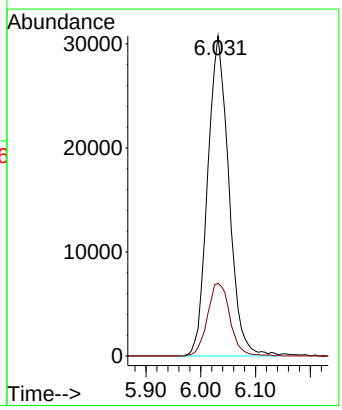
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

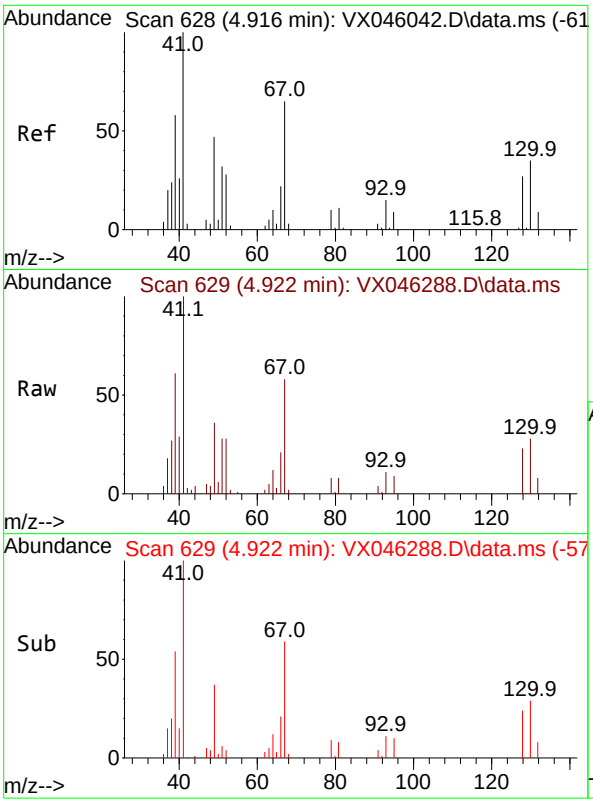



#40
Benzene
Concen: 20.420 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 78 Resp: 82429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.7 | 19.0 | 28.4 |

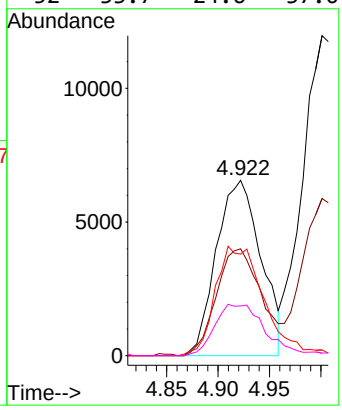





#41
Methacrylonitrile
Concen: 22.220 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 41 Resp: 1979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.9 | 47.2 | 70.8 |
| 67 | 68.6 | 50.7 | 76.1 |
| 52 | 33.7 | 24.6 | 37.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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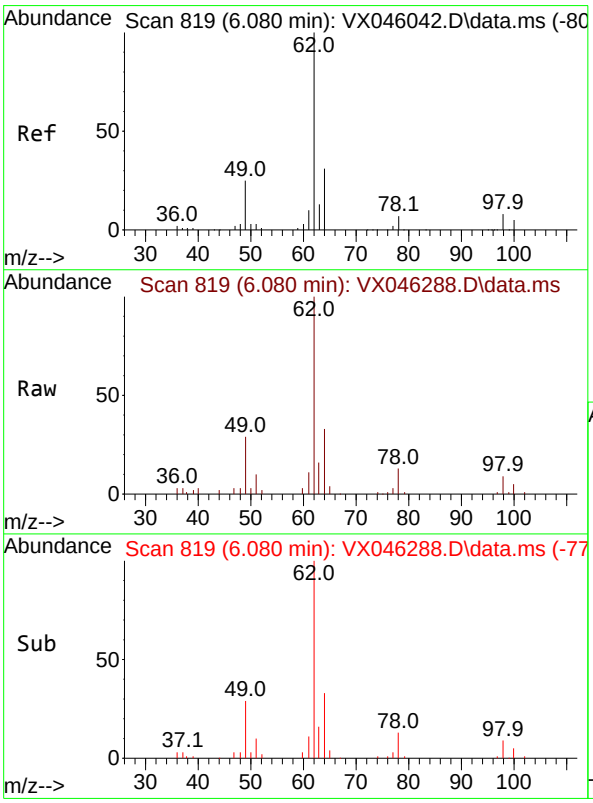
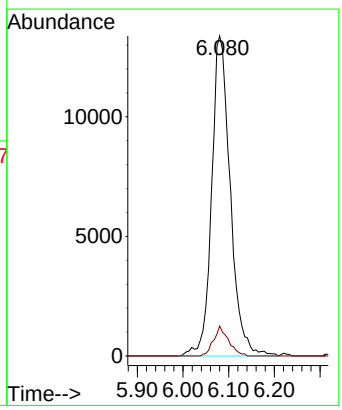
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

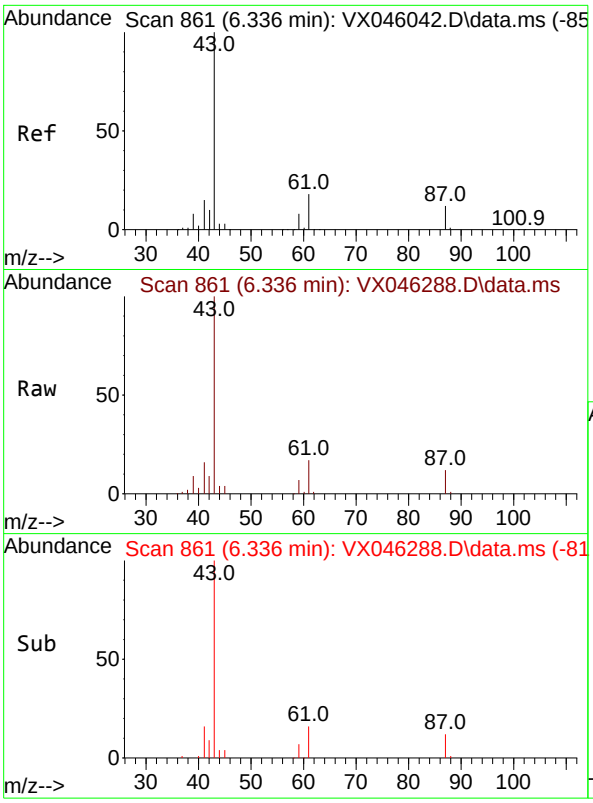



#42
1,2-Dichloroethane
Concen: 21.793 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 62 Resp: 37969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.5 | 0.0 | 15.2 |






#43
Isopropyl Acetate
Concen: 22.538 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 43 Resp: 5854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 17.0 | 14.3 | 21.5 |
| 87 | 11.7 | 9.5 | 14.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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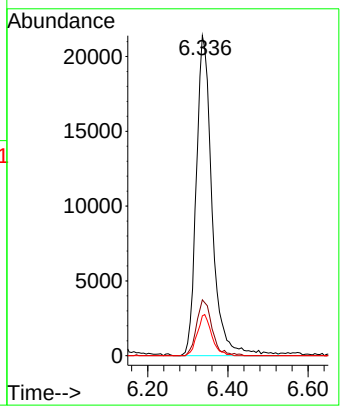
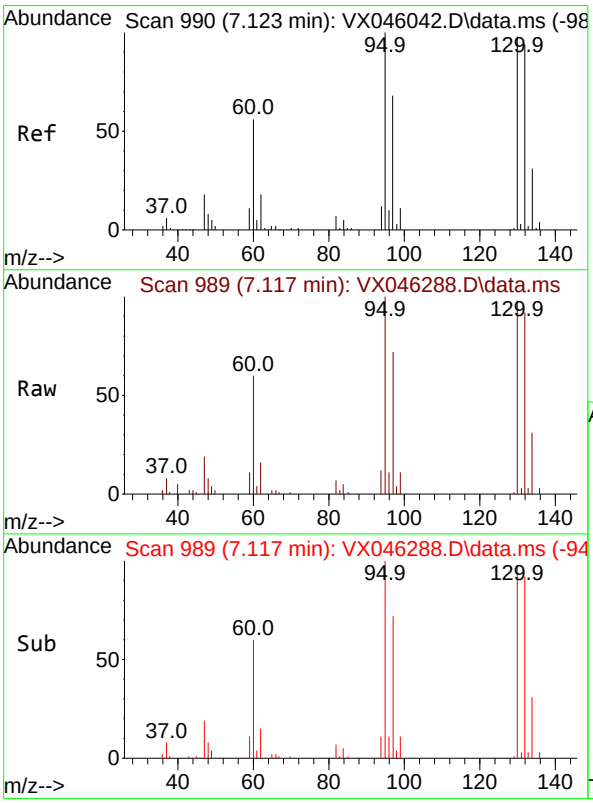
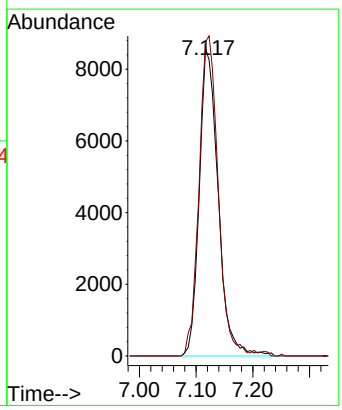


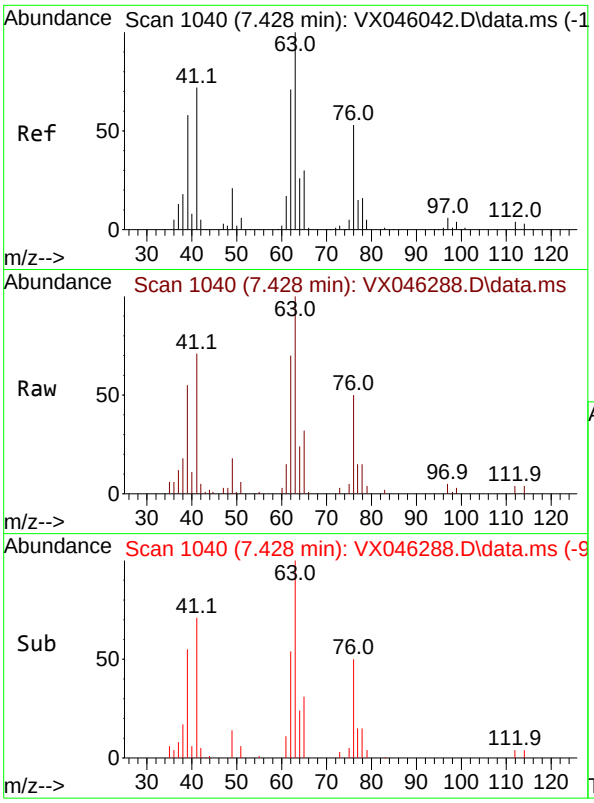




#44
Trichloroethene
Concen: 20.392 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:130 Resp: 19812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.2 | 0.0 | 204.2 |






#45
1,2-Dichloropropane
Concen: 21.361 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 63 Resp: 2144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.3 | 24.1 | 36.1 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations APPROVED**

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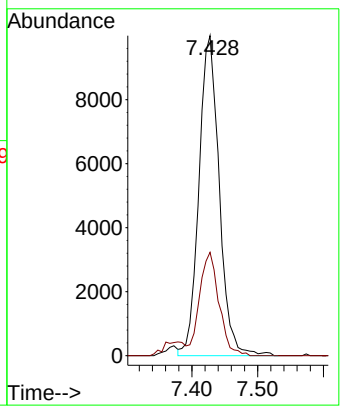
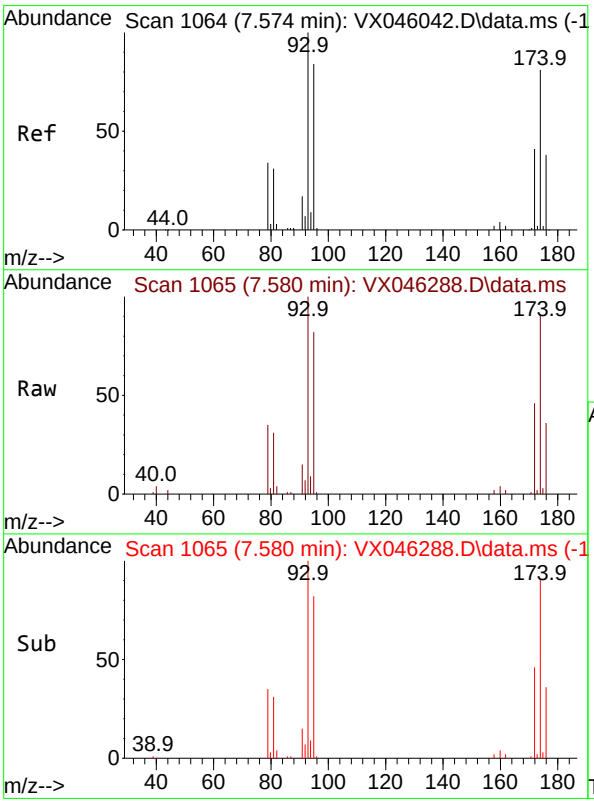
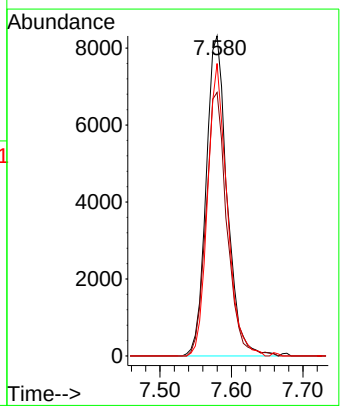


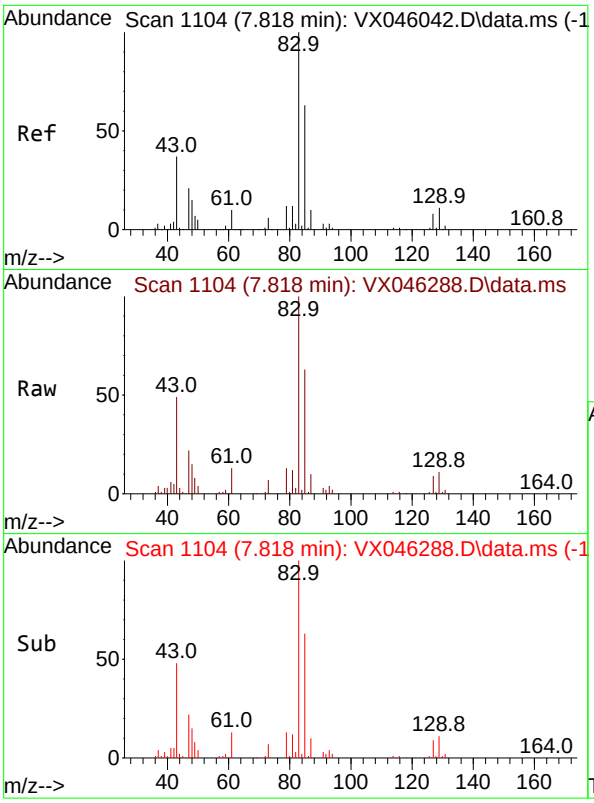




#46
Dibromomethane
Concen: 21.392 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 93 Resp: 16936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.1 | 65.6 | 98.4 |
| 174 | 85.2 | 68.2 | 102.2 |

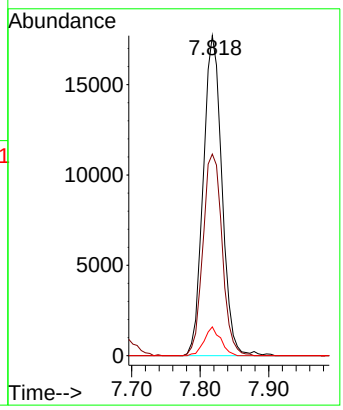





#47
Bromodichloromethane
Concen: 21.594 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 83 Resp: 3367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.0 | 50.5 | 75.7 |
| 127 | 9.0 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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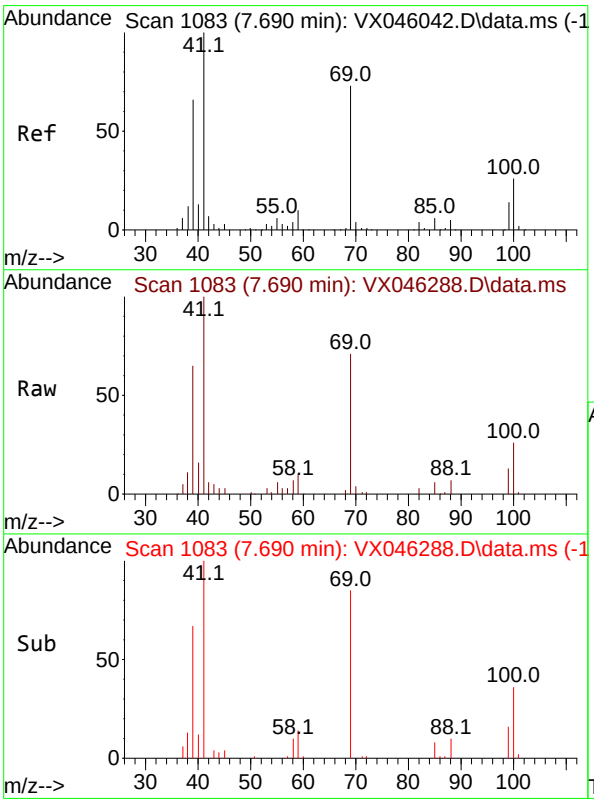
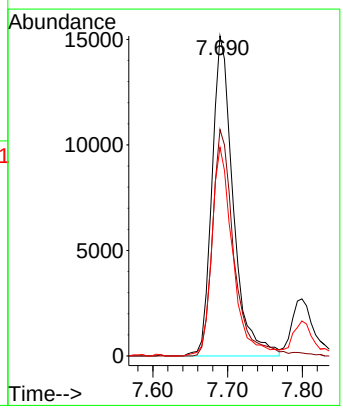
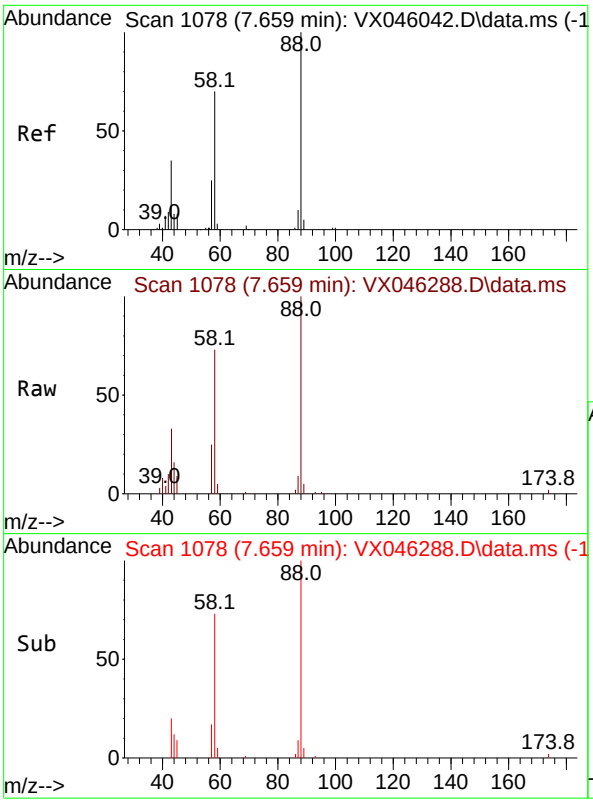



#48
Methyl methacrylate
Concen: 22.533 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 41 Resp: 29893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 71.2 | 58.5 | 87.7 |
| 39 | 64.9 | 51.7 | 77.5 |

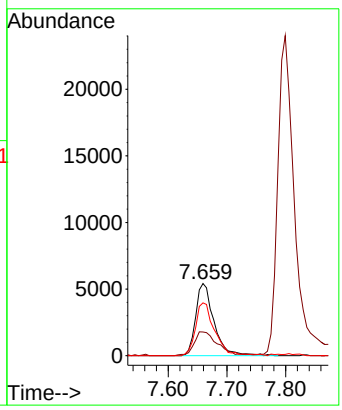





#49
1,4-Dioxane
Concen: 462.585 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 88 Resp: 1165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 42.1 | 33.4 | 50.2 |
| 58 | 76.2 | 58.6 | 88.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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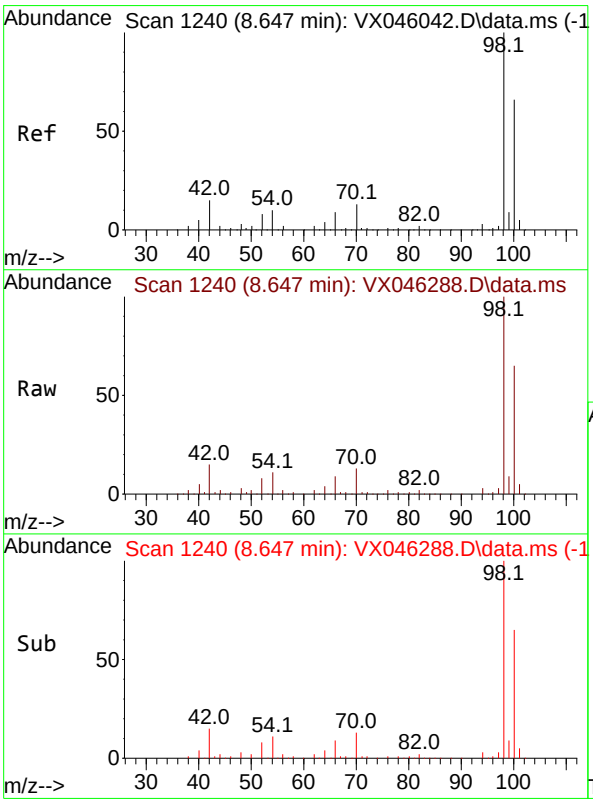
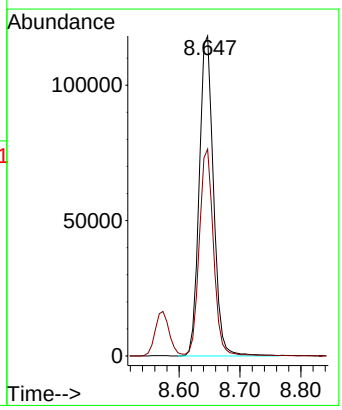
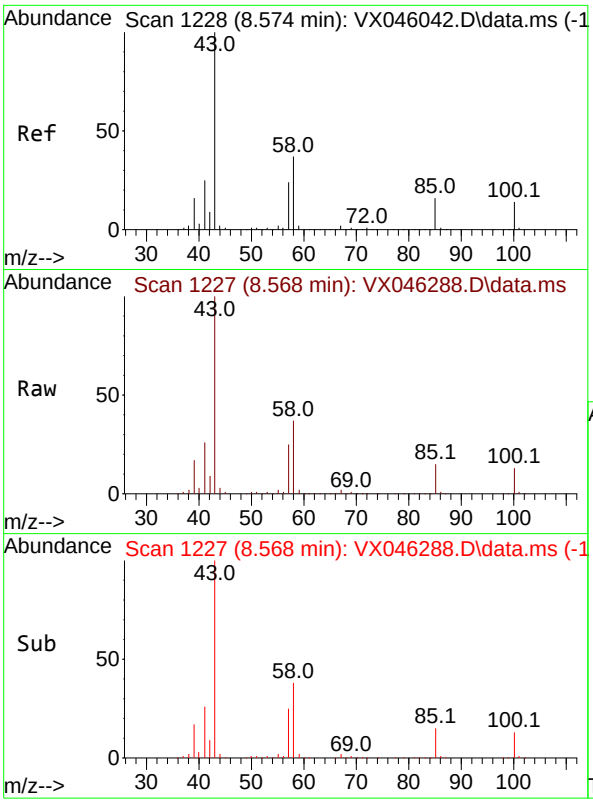



#50
Toluene-d8
Concen: 54.067 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 98 Resp: 191946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.5 | 53.5 | 80.3 |

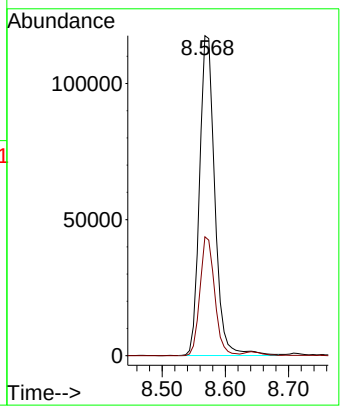





#51
4-Methyl-2-Pentanone
Concen: 114.659 ug/l
RT: 8.568 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 43 Resp: 19770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.9 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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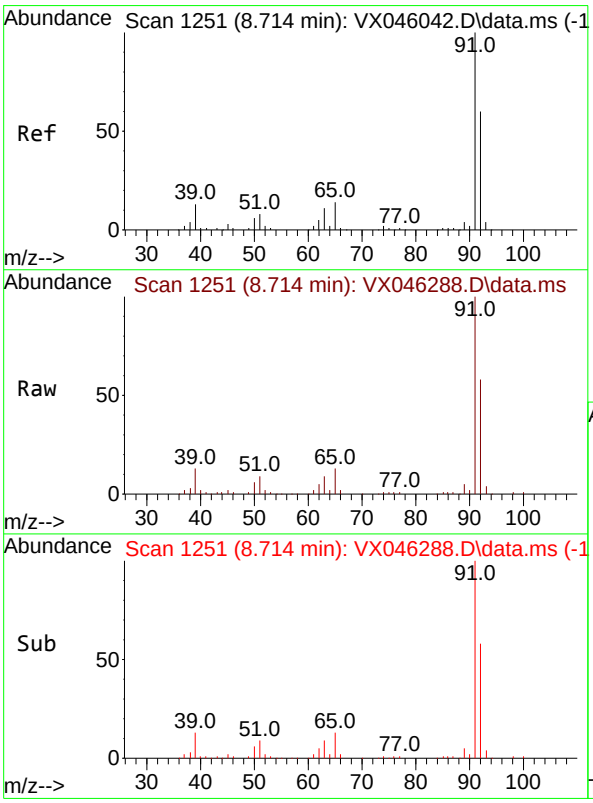
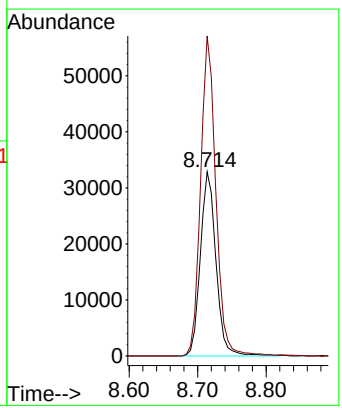
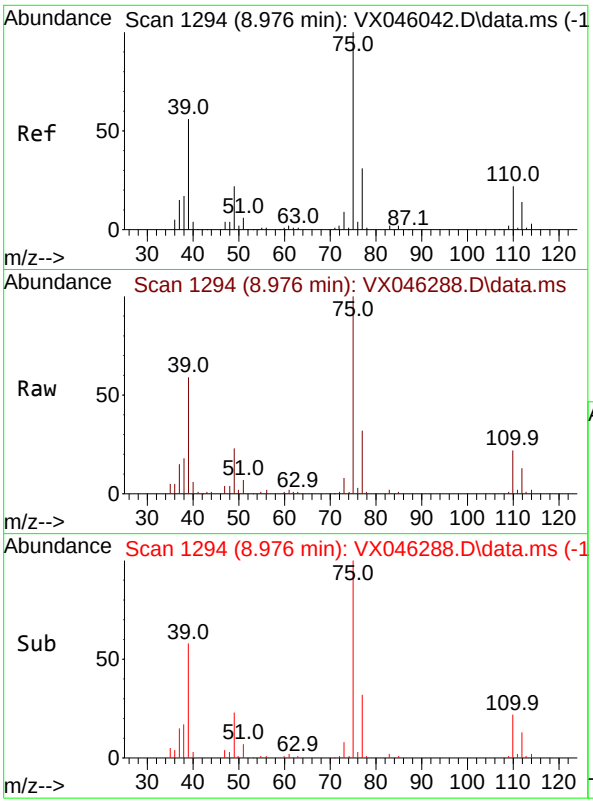



#52
Toluene
Concen: 21.074 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 92 Resp: 52163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.5 | 136.6 | 205.0 |

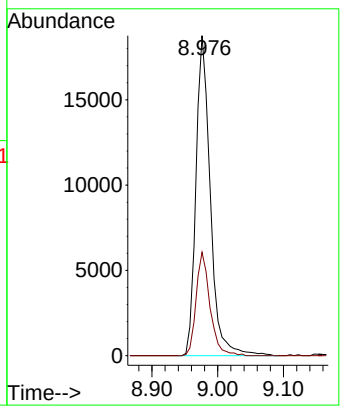





#53
t-1,3-Dichloropropene
Concen: 20.575 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 75 Resp: 2851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.3 | 25.0 | 37.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

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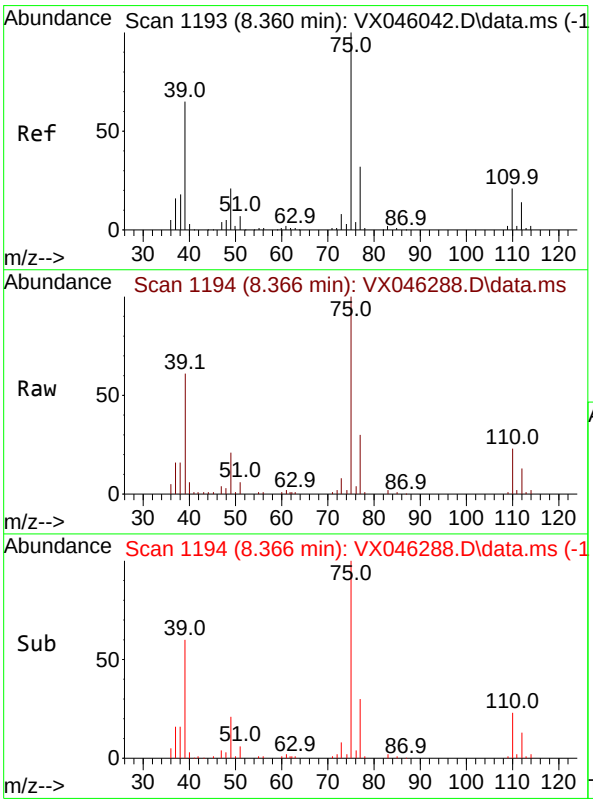
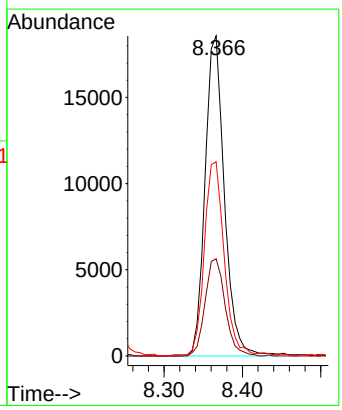
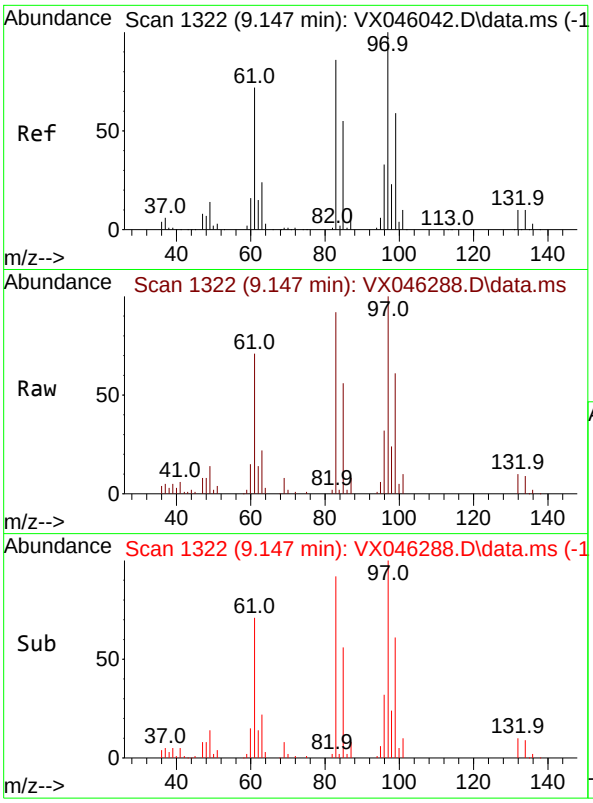



#54
cis-1,3-Dichloropropene
Concen: 20.731 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 75 Resp: 31756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.3 | 25.4 | 38.0 |
| 39 | 60.3 | 52.2 | 78.4 |

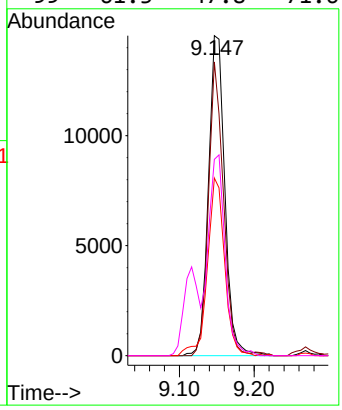





#55
1,1,2-Trichloroethane
Concen: 22.727 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 97 Resp: 2218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 91.8 | 69.0 | 103.6 |
| 85 | 55.5 | 44.3 | 66.5 |
| 99 | 61.3 | 47.8 | 71.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations APPROVED**

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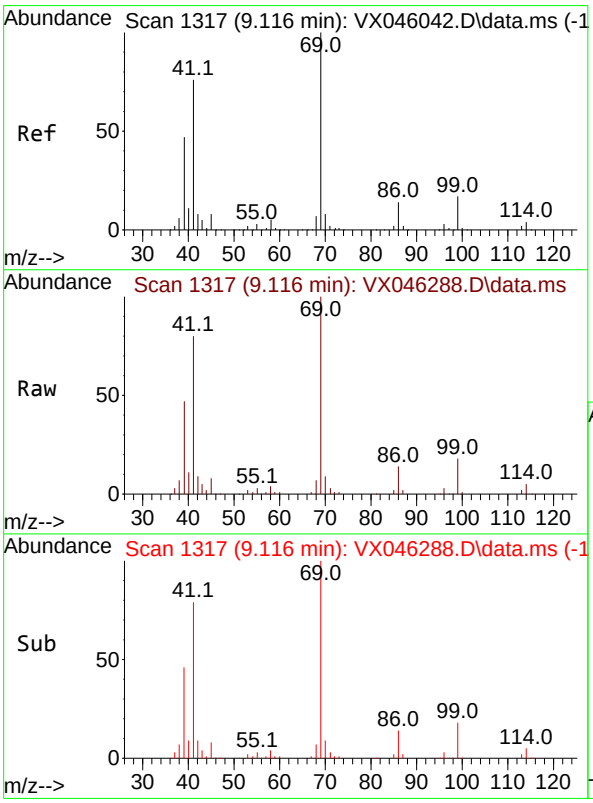
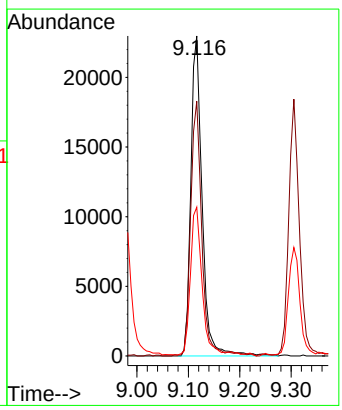
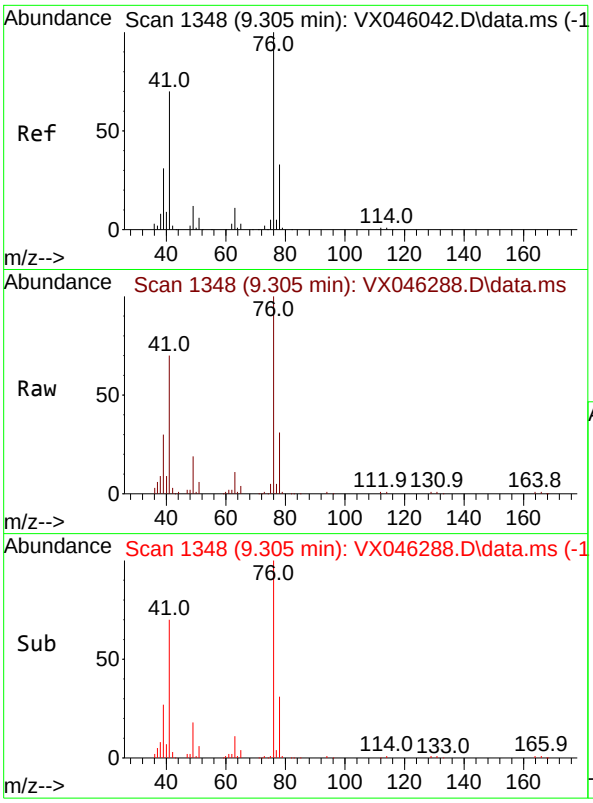



#56
Ethyl methacrylate
Concen: 22.593 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 69 Resp: 35144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 78.8 | 60.8 | 91.2 |
| 39 | 47.1 | 39.0 | 58.6 |






#57
1,3-Dichloropropane
Concen: 21.629 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 76 Resp: 3791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.6 | 26.3 | 39.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

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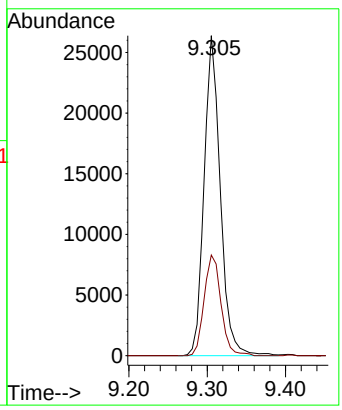
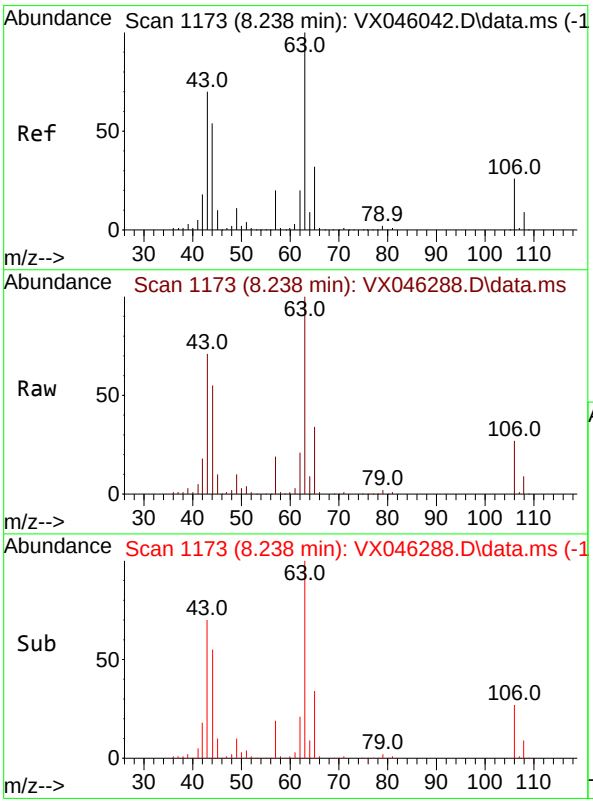
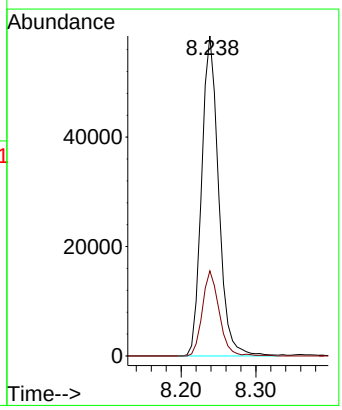


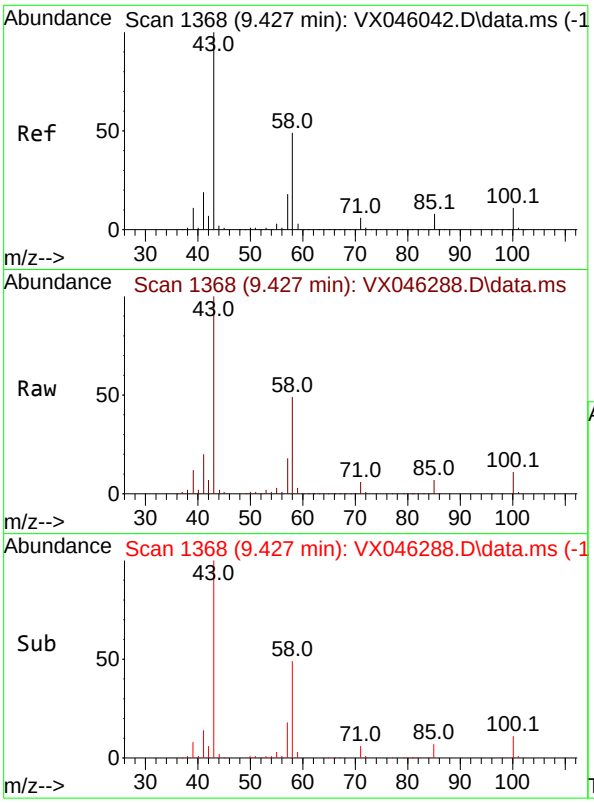




#58
2-Chloroethyl Vinyl ether
Concen: 116.515 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 63 Resp: 92402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.4 | 21.5 | 32.3 |

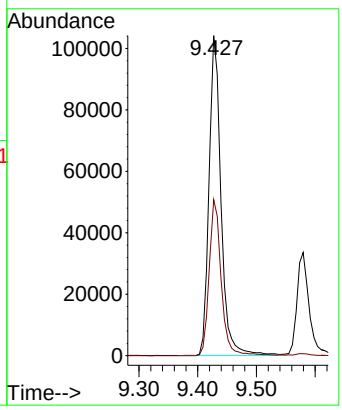





#59
2-Hexanone
Concen: 115.798 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 43 Resp: 14771

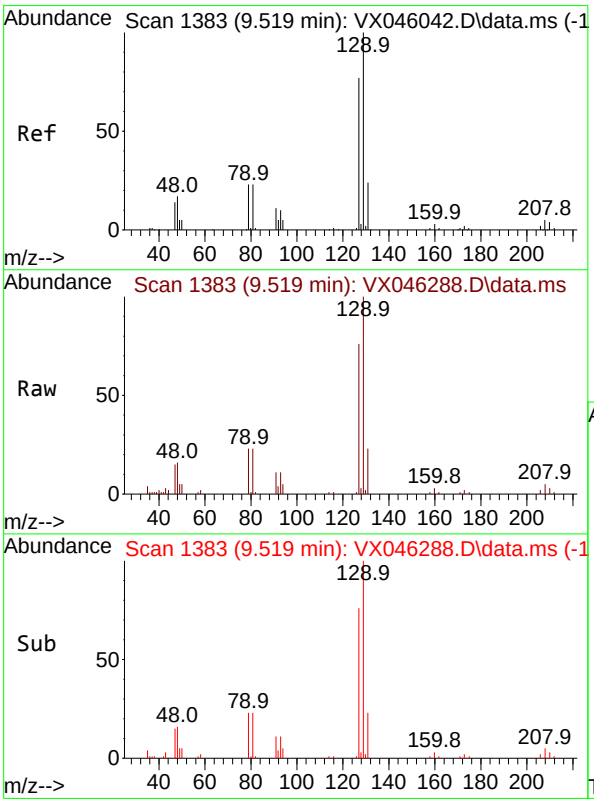
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.0 | 24.9 | 74.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
**APPROVED**

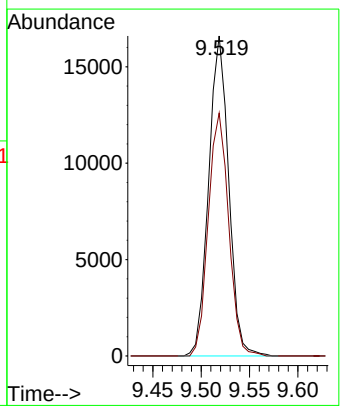
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

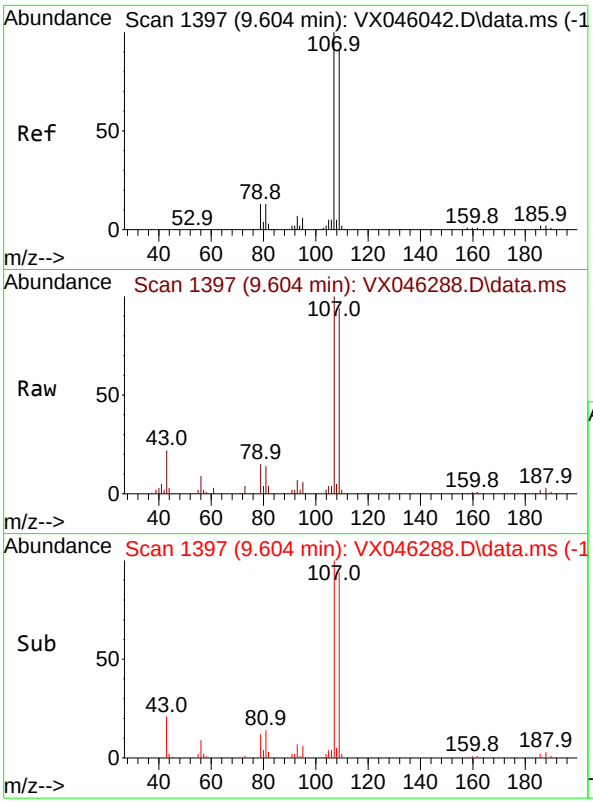



#60
Dibromochloromethane
Concen: 22.336 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:129 Resp: 23942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.2 | 39.3 | 117.8 |

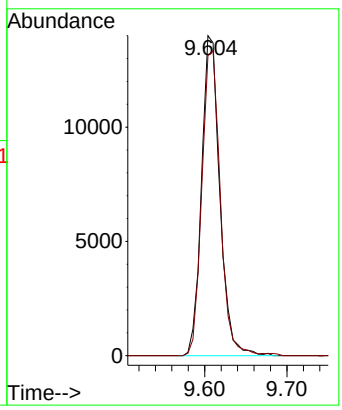





#61
1,2-Dibromoethane
Concen: 21.330 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:107 Resp: 2163

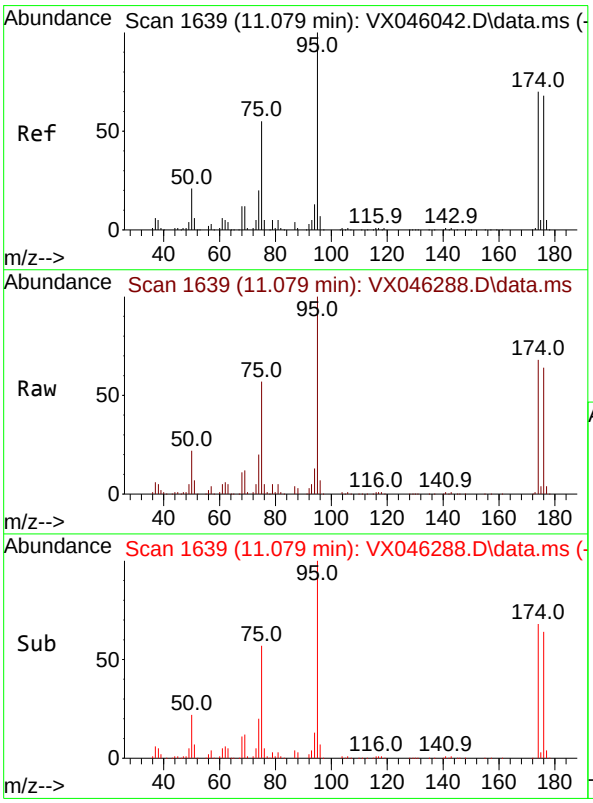
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.6 | 73.3 | 109.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
**APPROVED**

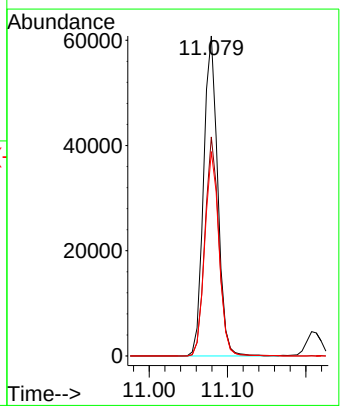
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

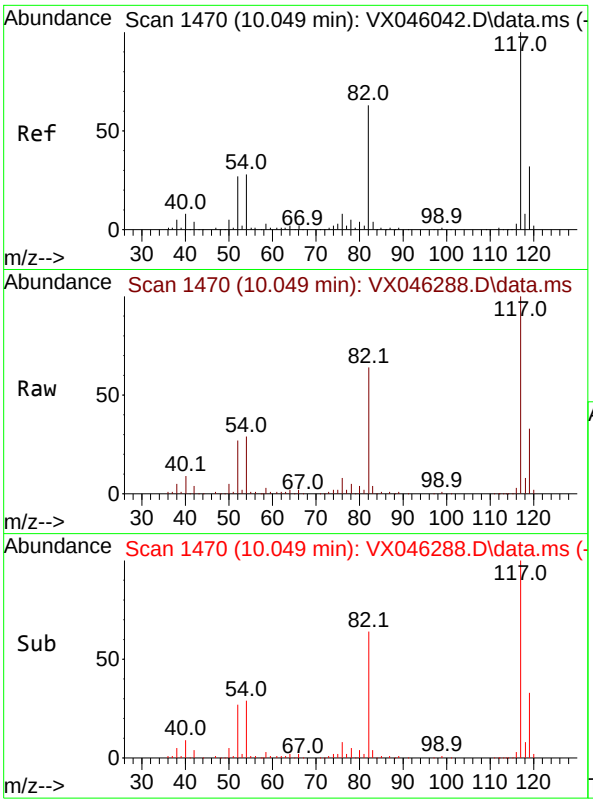



#62
4-Bromofluorobenzene
Concen: 55.790 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 95 Resp: 75974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.3 | 0.0 | 135.8 |
| 176 | 64.1 | 0.0 | 131.4 |

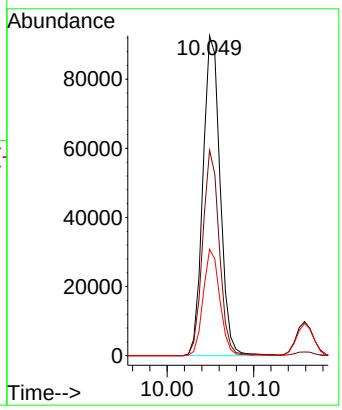





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:117 Resp: 12762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.2 | 50.6 | 76.0 |
| 119 | 33.3 | 25.8 | 38.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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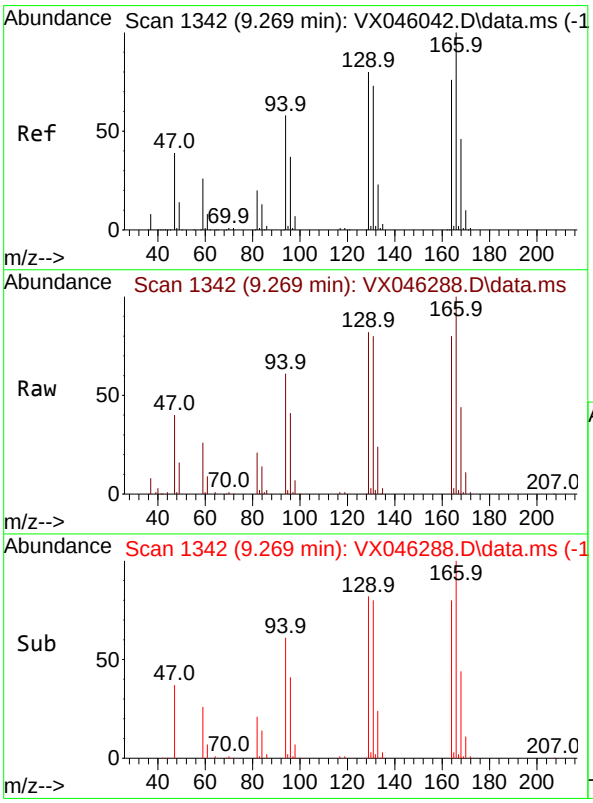
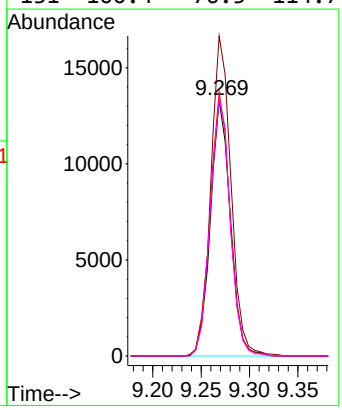
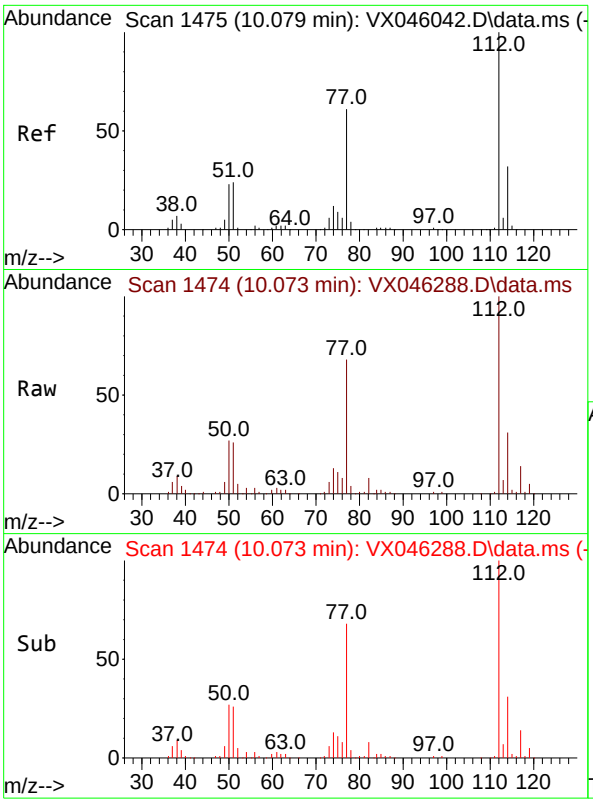



#64
Tetrachloroethene
Concen: 21.054 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:164 Resp: 19011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 125.2 | 105.0 | 157.6 |
| 129 | 103.3 | 83.5 | 125.3 |
| 131 | 100.4 | 76.5 | 114.7 |






#65
Chlorobenzene
Concen: 20.318 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

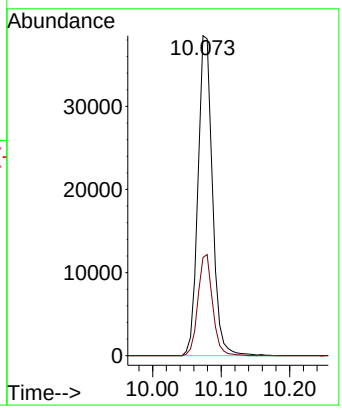
Tgt Ion:112 Resp: 5675

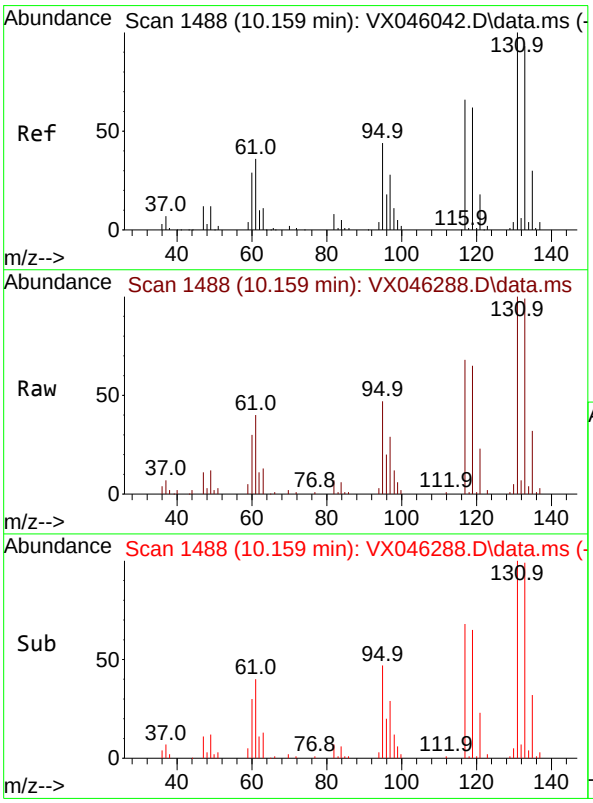
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 30.7 | 25.4 | 38.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

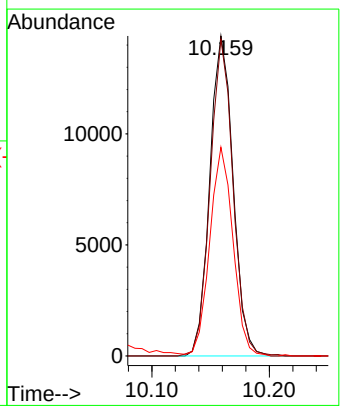


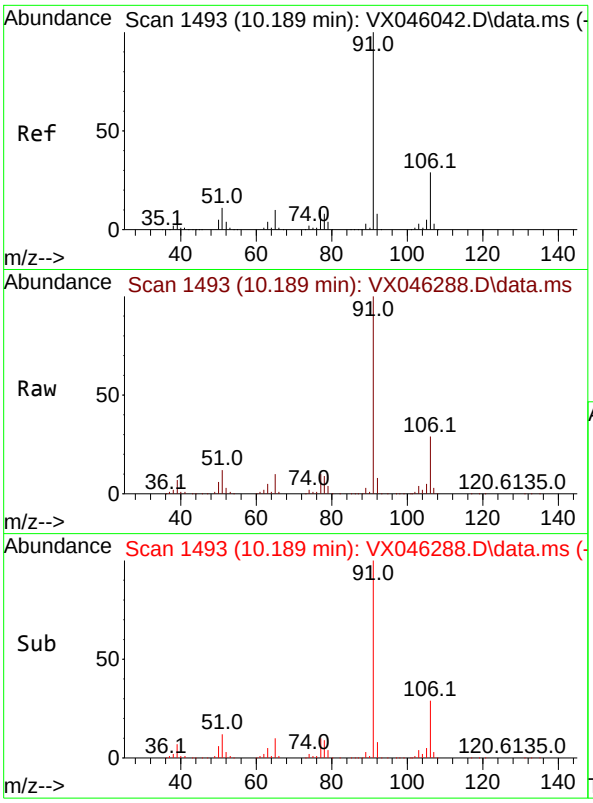




#66
1,1,1,2-Tetrachloroethane
Concen: 20.825 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:131 Resp: 19864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.0 | 47.3 | 141.9 |
| 119 | 65.0 | 31.6 | 95.0 |

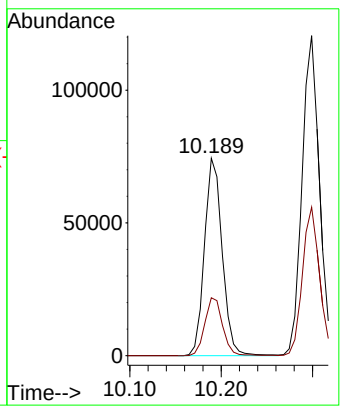





#67
Ethyl Benzene
Concen: 20.351 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 91 Resp: 10020

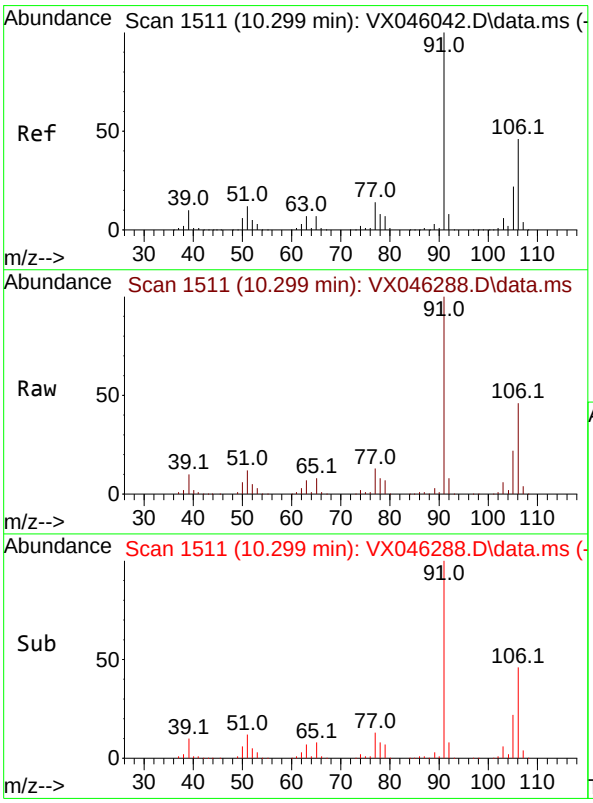
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.4 | 23.4 | 35.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations APPROVED**

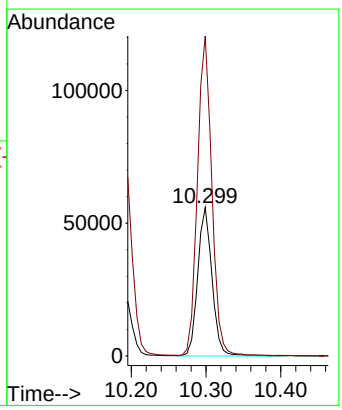
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

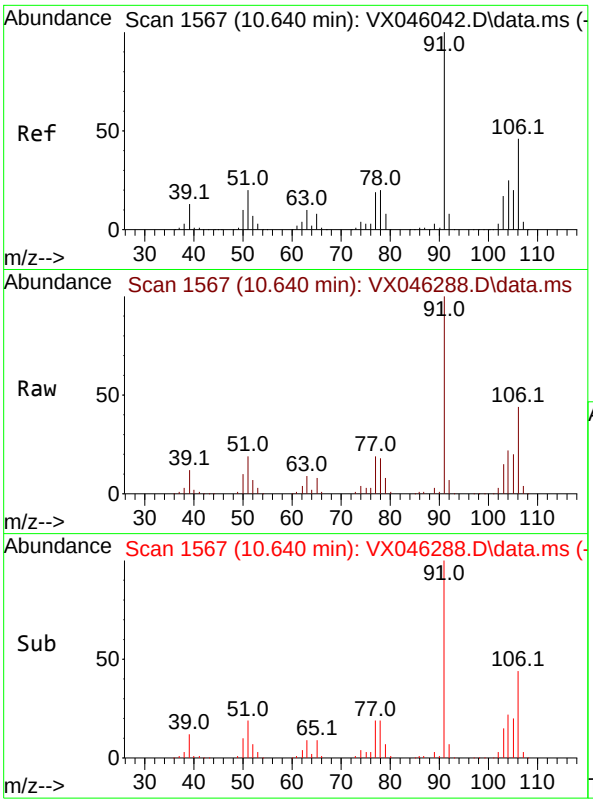



#68
m/p-Xylenes
Concen: 41.100 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:106 Resp: 74017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 218.2 | 171.2 | 256.8 |

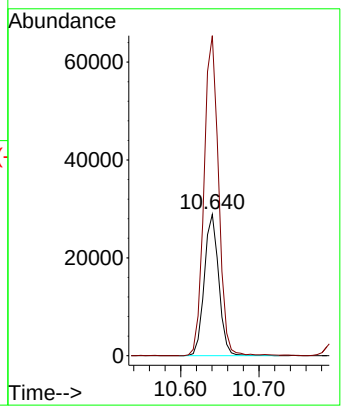





#69
o-Xylene
Concen: 20.991 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:106 Resp: 3685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 228.4 | 112.7 | 338.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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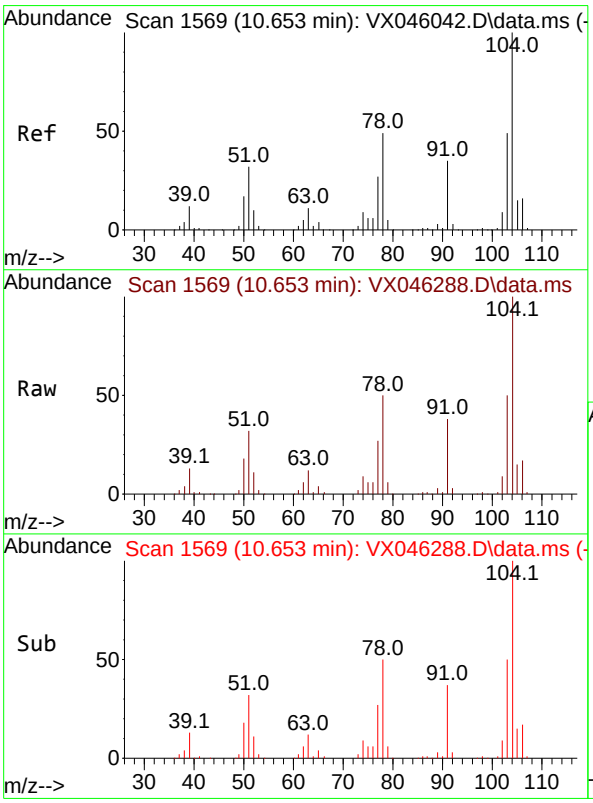
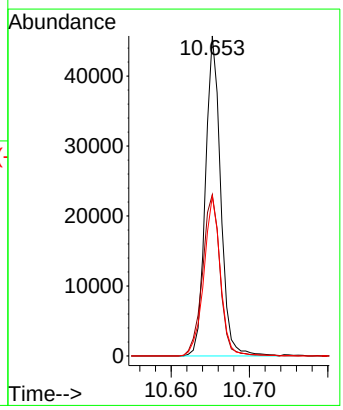
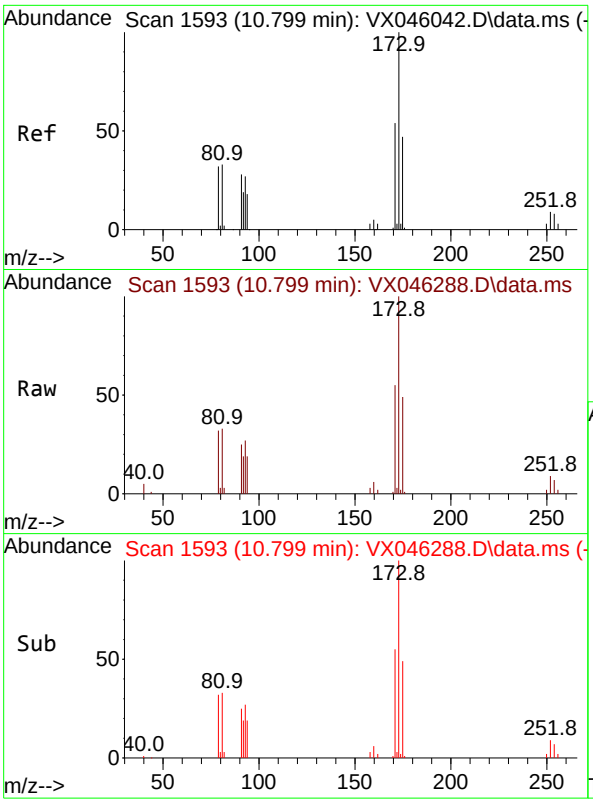



#70
Styrene
Concen: 21.448 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:104 Resp: 61684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 58.1 | 45.7 | 68.5 |
| 103 | 54.3 | 43.7 | 65.5 |

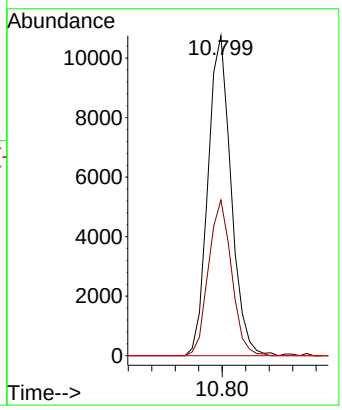





#71
Bromoform
Concen: 20.492 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:173 Resp: 1467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 23.4 | 70.0 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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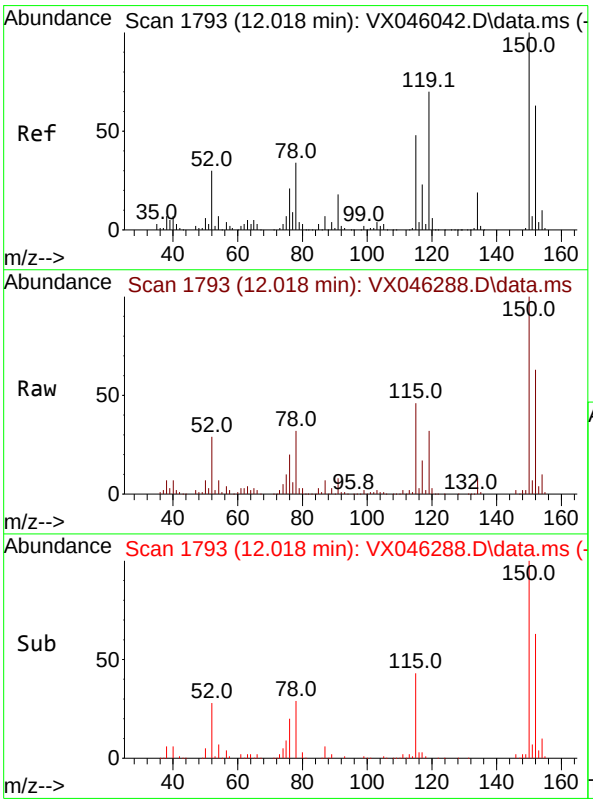
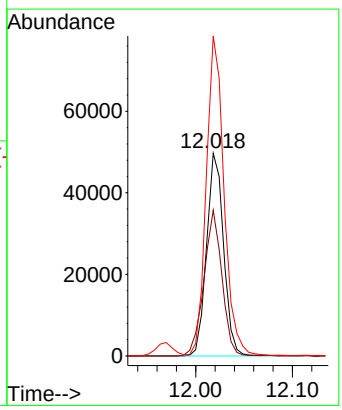
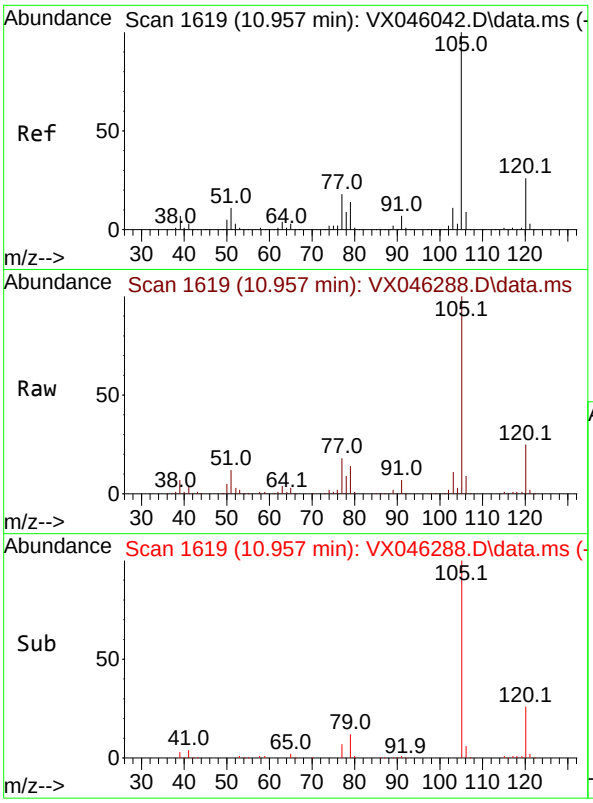



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:152 Resp: 60955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 76.1 | 46.9 | 140.7 |
| 150 | 164.2 | 0.0 | 351.0 |






#73
Isopropylbenzene
Concen: 20.780 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:105 Resp: 9861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.1 | 12.8 | 38.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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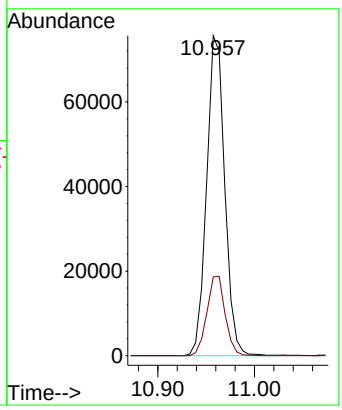
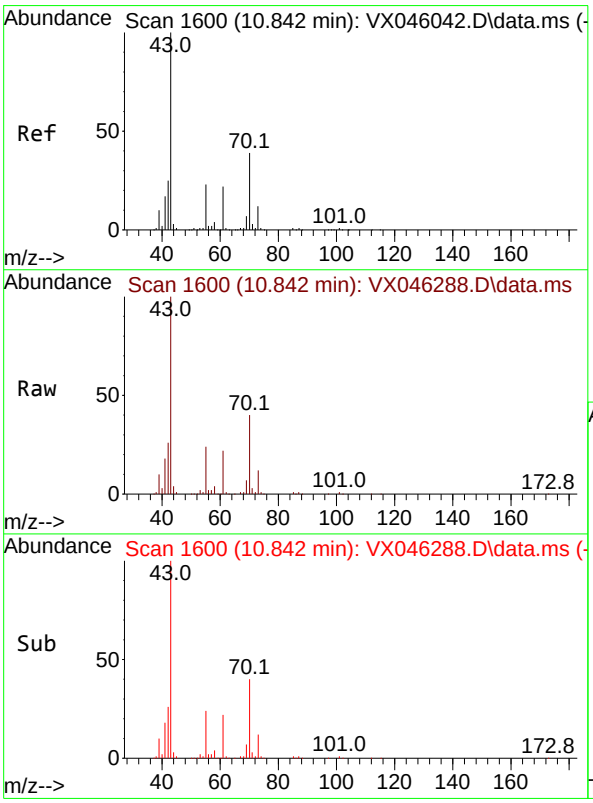
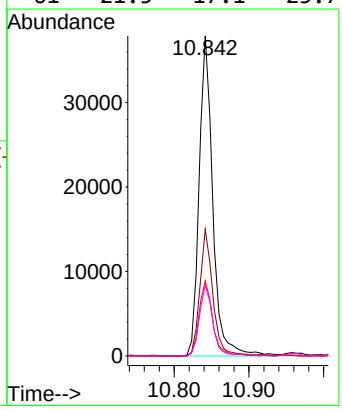


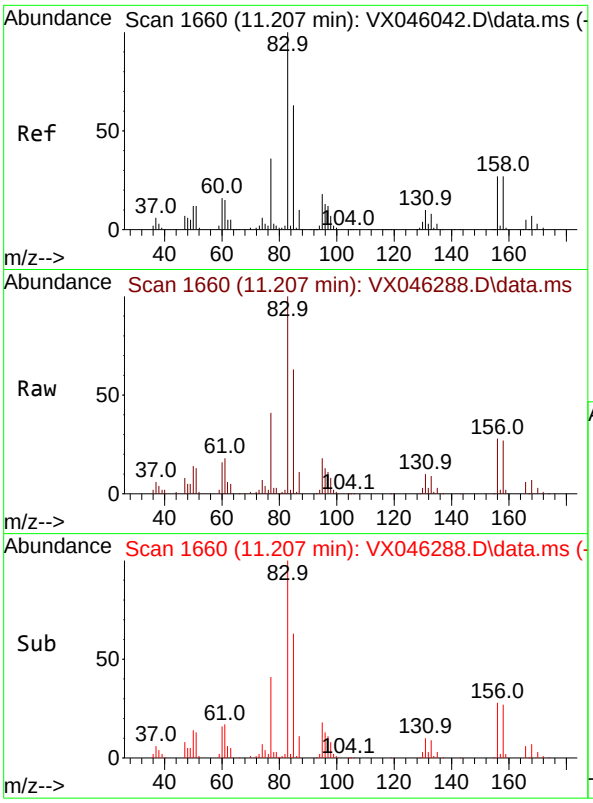




#74
N-amyl acetate
Concen: 20.540 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 43 Resp: 48166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 37.5 | 30.9 | 46.3 |
| 55 | 23.6 | 18.7 | 28.1 |
| 61 | 21.5 | 17.1 | 25.7 |






#75
1,1,2,2-Tetrachloroethane
Concen: 20.705 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

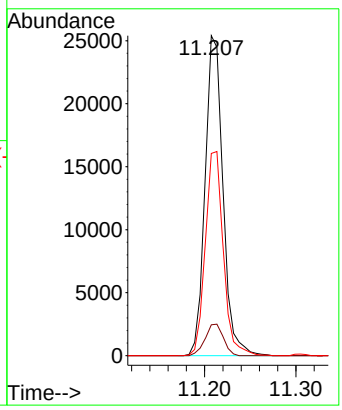
Tgt Ion: 83 Resp: 3443

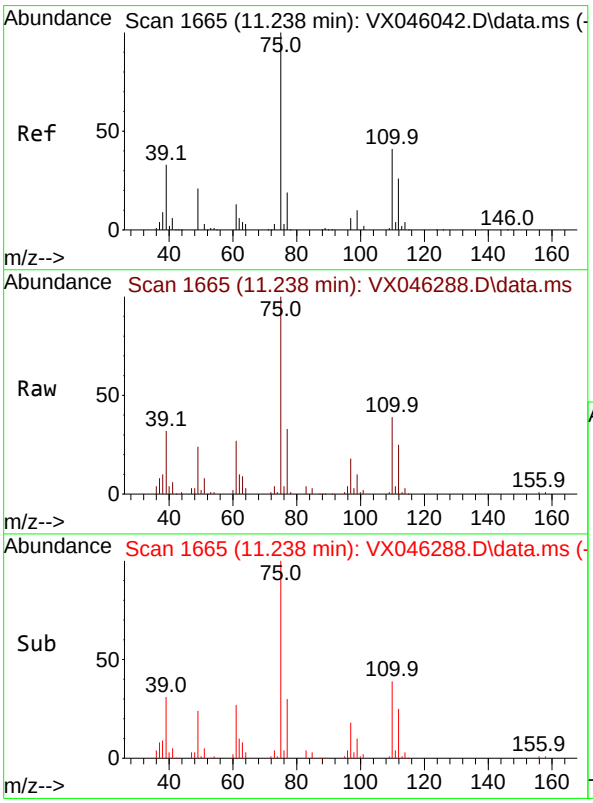
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.1 | 5.0 | 14.9 |
| 85 | 64.4 | 31.9 | 95.7 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

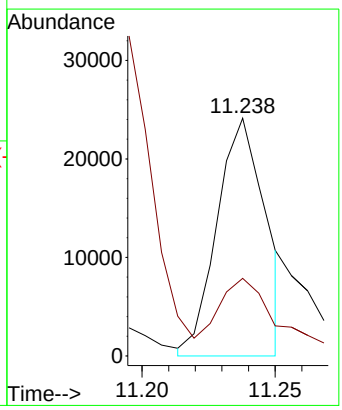


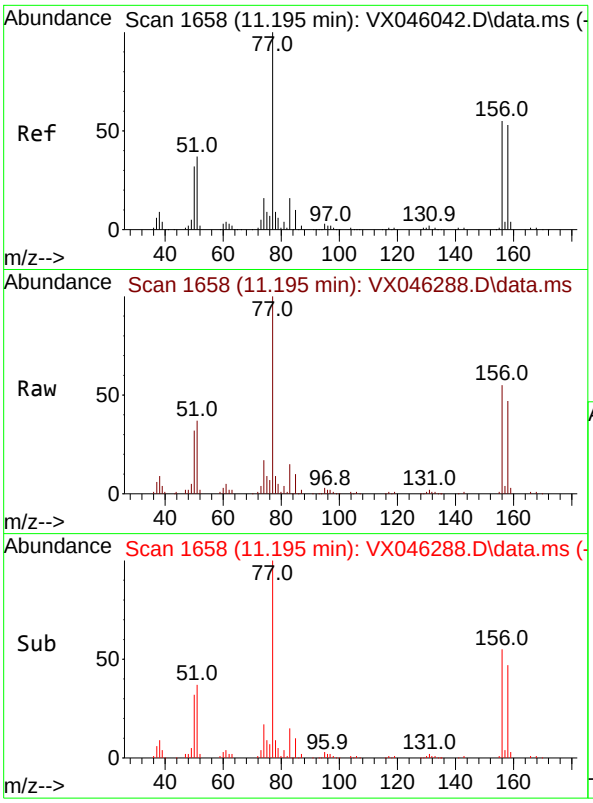




#76
1,2,3-Trichloropropane
Concen: 20.799 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 75 Resp: 30516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 41.2 | 20.5 | 61.5 |

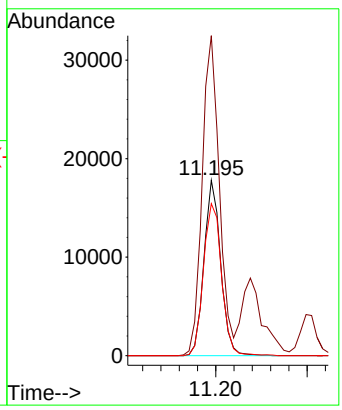





#77
Bromobenzene
Concen: 20.447 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:156 Resp: 2252

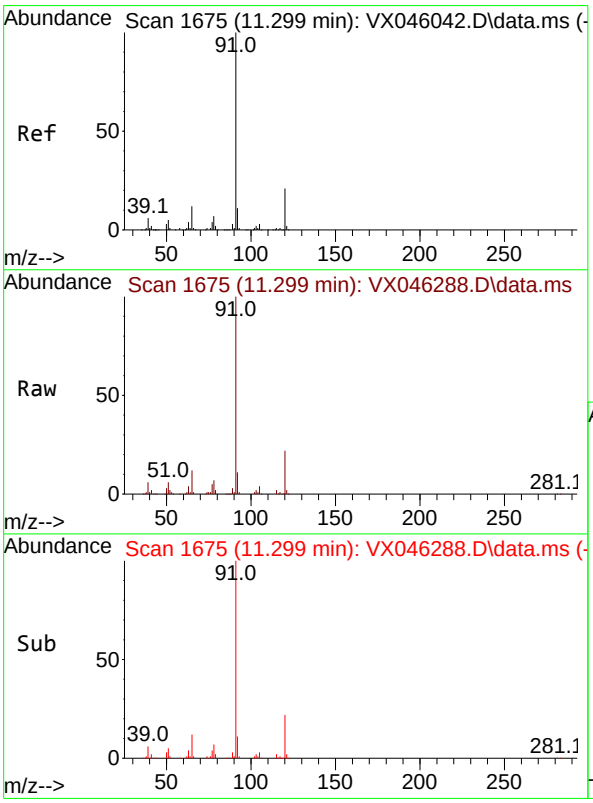
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 188.3 | 92.8 | 278.3 |
| 158 | 94.4 | 48.8 | 146.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
**APPROVED**

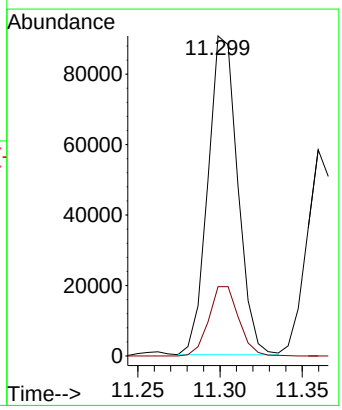
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

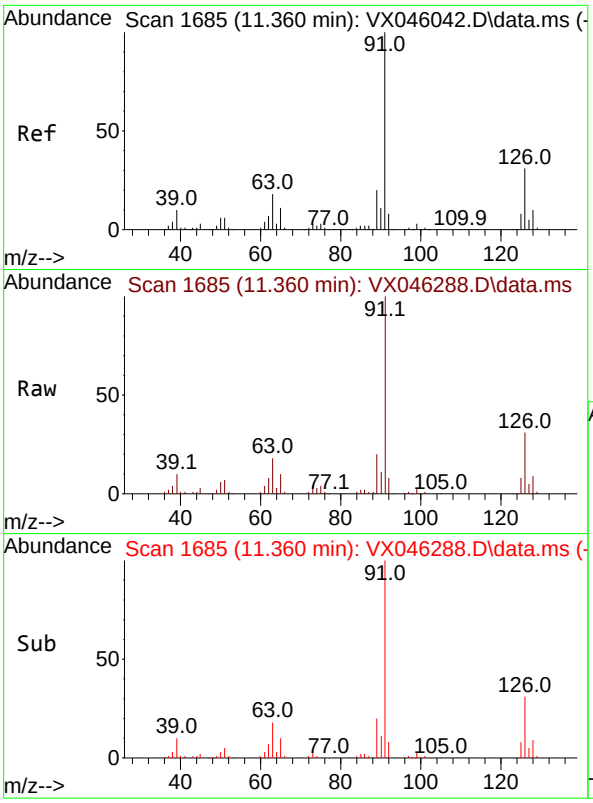



#78
n-propylbenzene
Concen: 20.676 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 91 Resp: 114085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.9 | 10.8 | 32.4 |

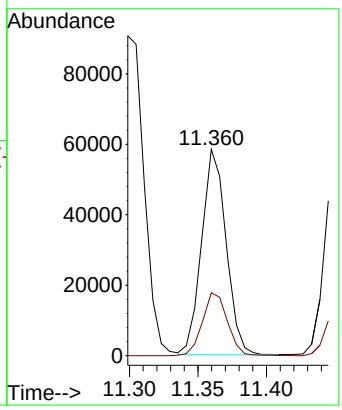





#79
2-Chlorotoluene
Concen: 20.397 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 91 Resp: 7259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.2 | 15.6 | 46.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 05/22/2025
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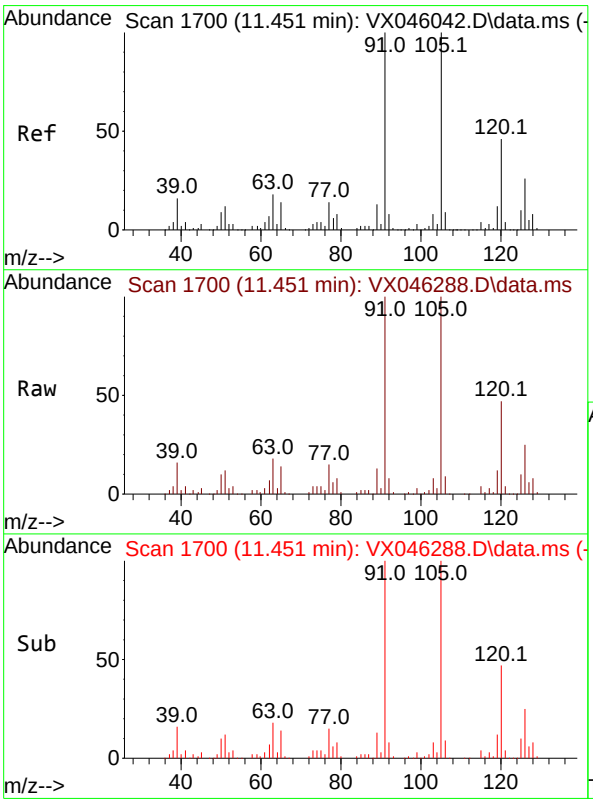
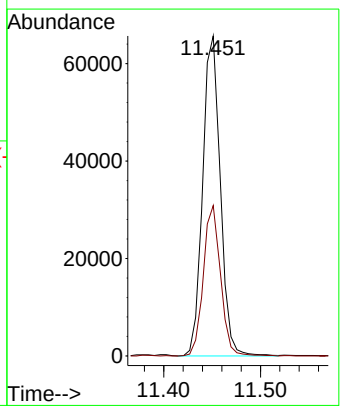
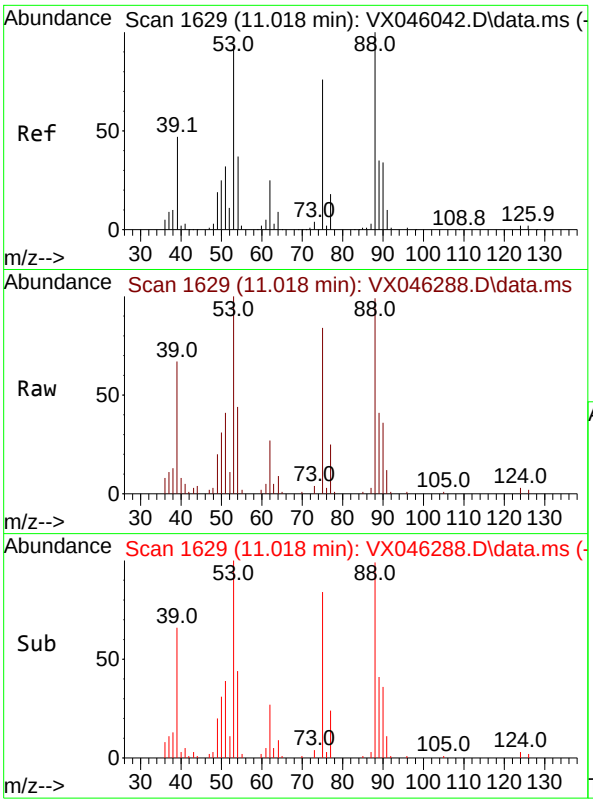



#80
1,3,5-Trimethylbenzene
Concen: 21.043 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:105 Resp: 83425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.8 | 23.1 | 69.2 |






#81
trans-1,4-Dichloro-2-butene
Concen: 19.731 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 75 Resp: 889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 128.1 | 100.5 | 150.7 |
| 89 | 46.5 | 37.0 | 55.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

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Reviewed By :John Carlone 05/22/2025
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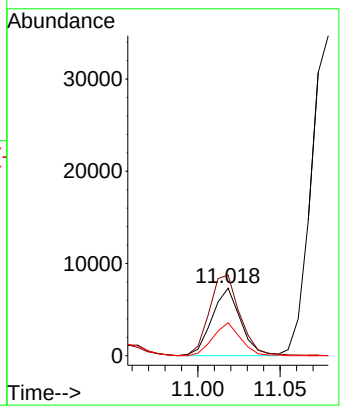
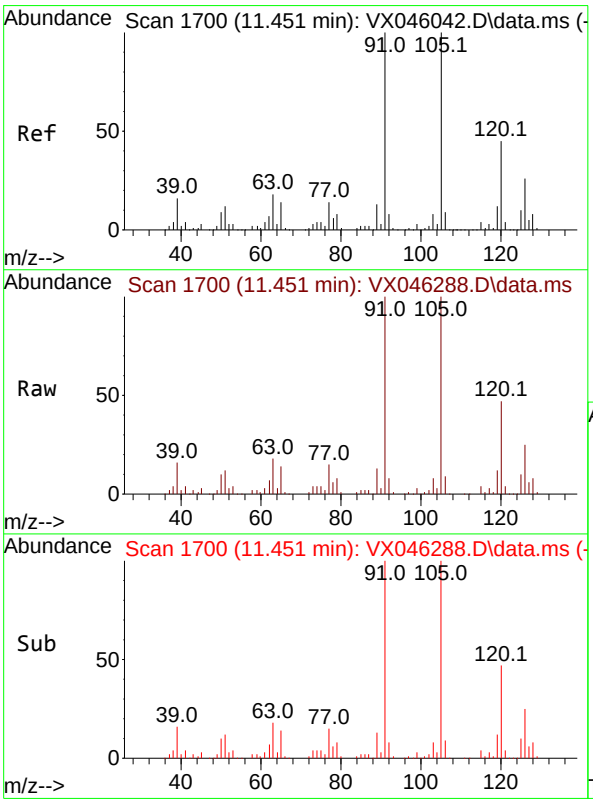
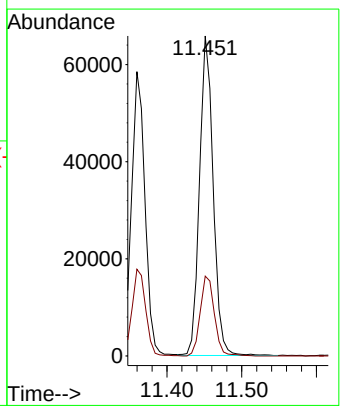


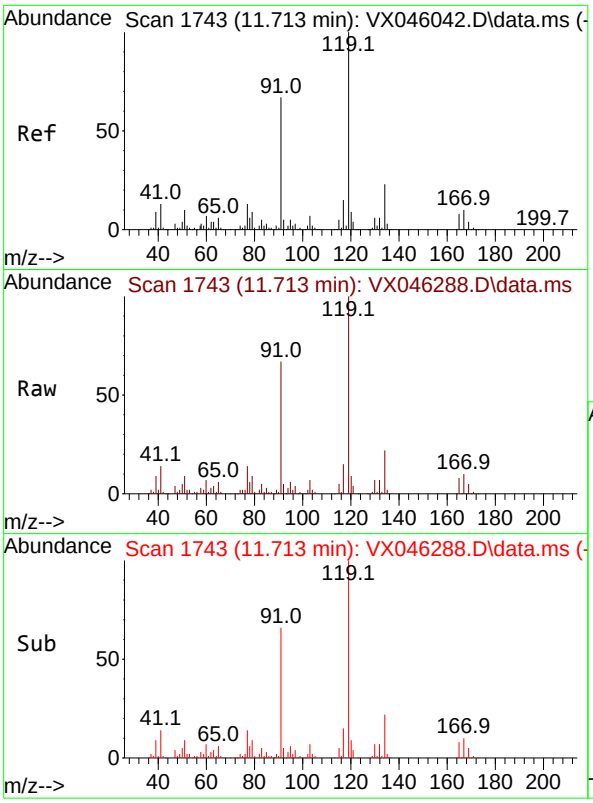




#82
4-Chlorotoluene
Concen: 21.123 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 91 Resp: 83368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 25.9 | 13.3 | 39.8 |

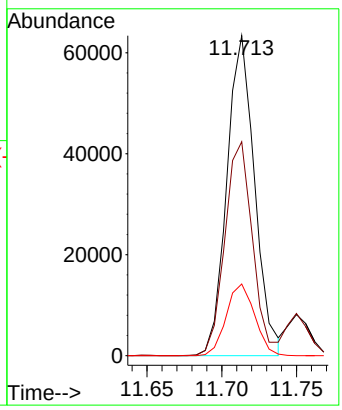





#83
tert-Butylbenzene
Concen: 20.500 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:119 Resp: 8186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.1 | 32.9 | 98.7 |
| 134 | 22.9 | 11.4 | 34.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
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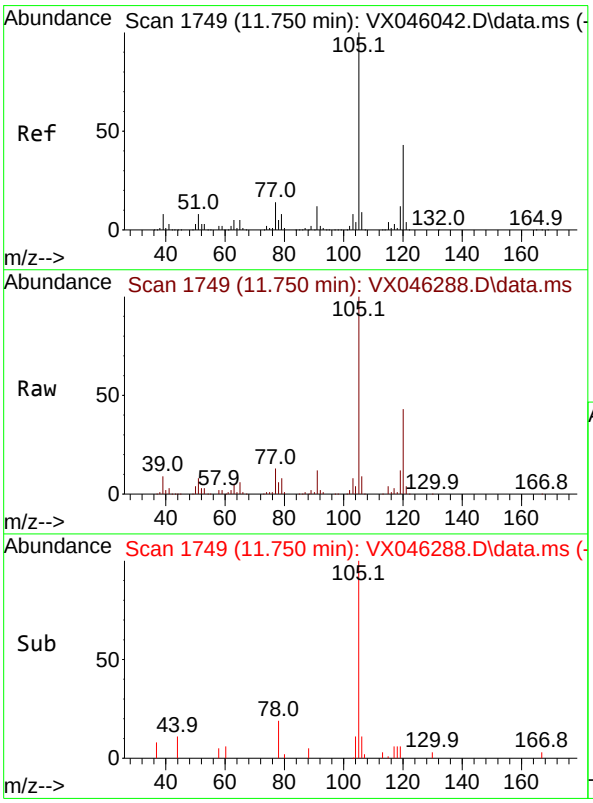
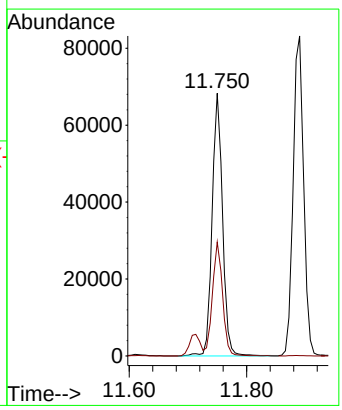
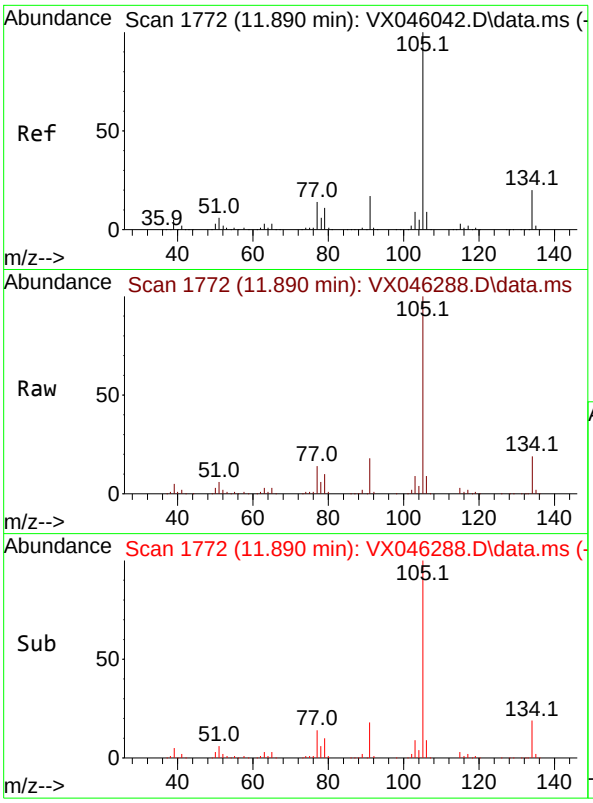



#84
1,2,4-Trimethylbenzene
Concen: 20.949 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:105 Resp: 84105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.4 | 21.2 | 63.6 |

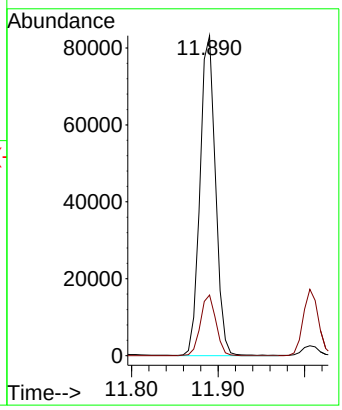





#85
sec-Butylbenzene
Concen: 21.090 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:105 Resp: 10341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.0 | 9.7 | 29.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

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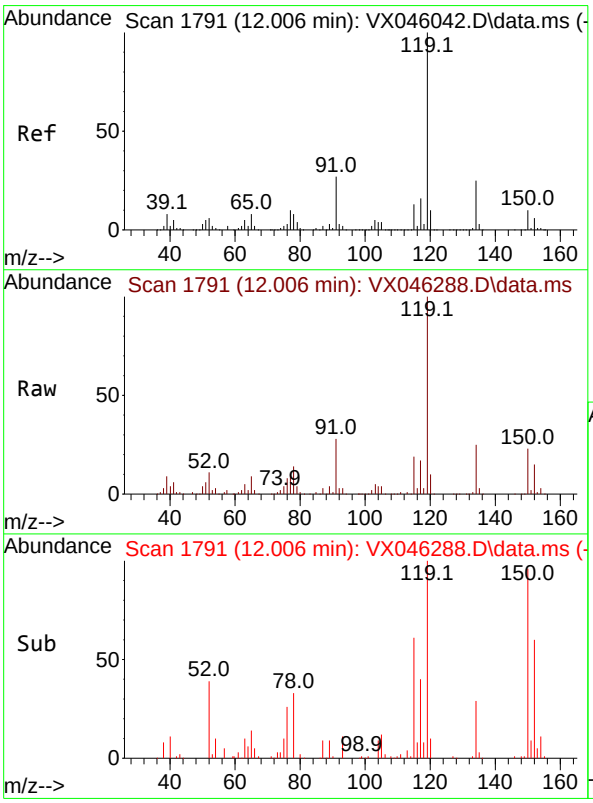
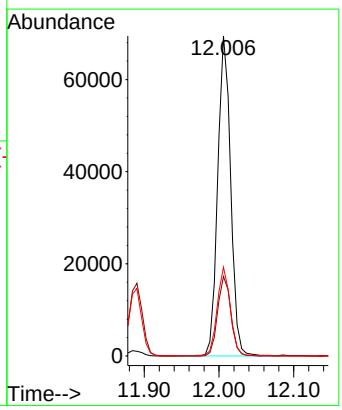
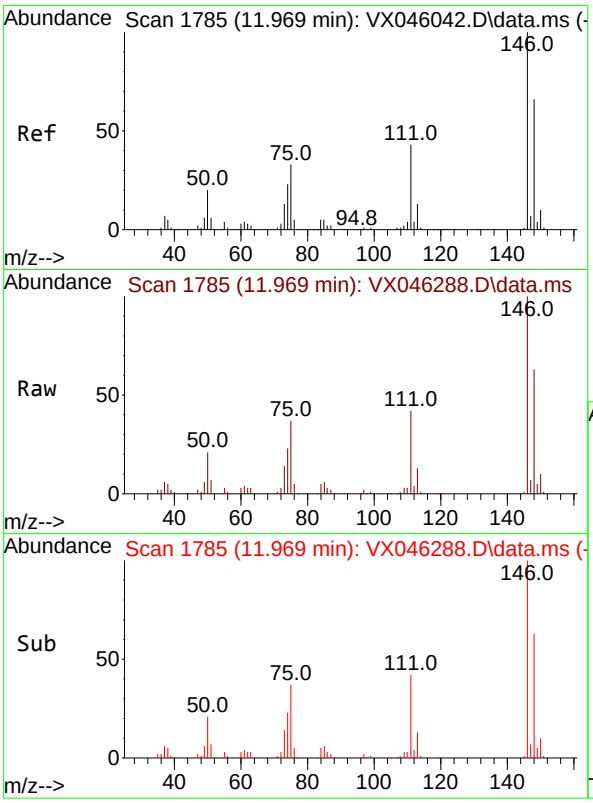



#86
p-Isopropyltoluene
Concen: 20.666 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:119 Resp: 83642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.4 | 12.5 | 37.5 |
| 91 | 27.7 | 13.8 | 41.4 |

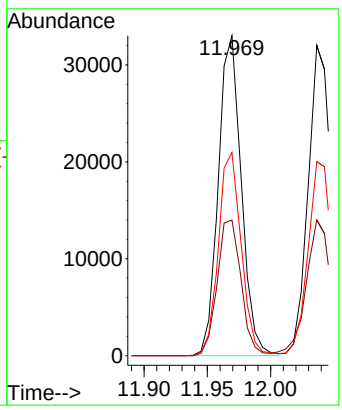





#87
1,3-Dichlorobenzene
Concen: 20.748 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:146 Resp: 4171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.0 | 22.1 | 66.3 |
| 148 | 63.2 | 32.1 | 96.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations APPROVED**

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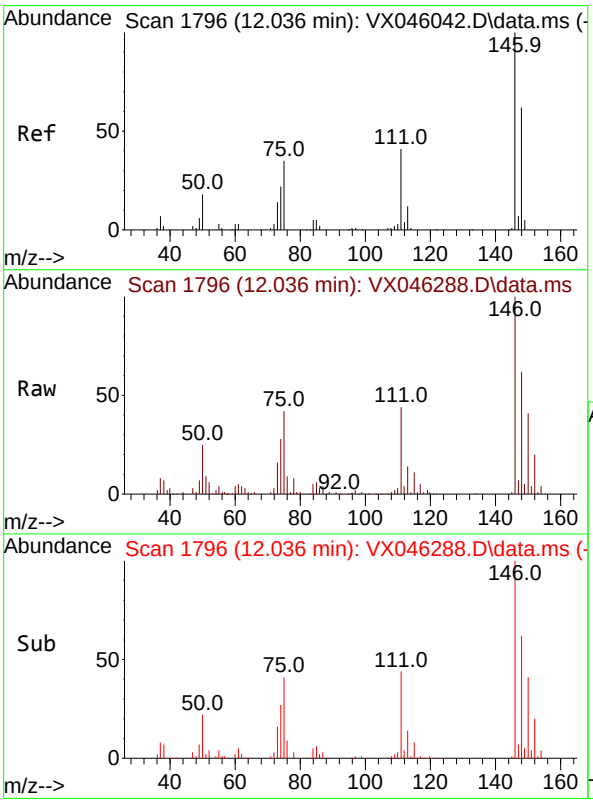
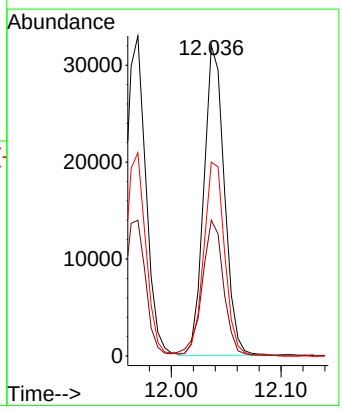
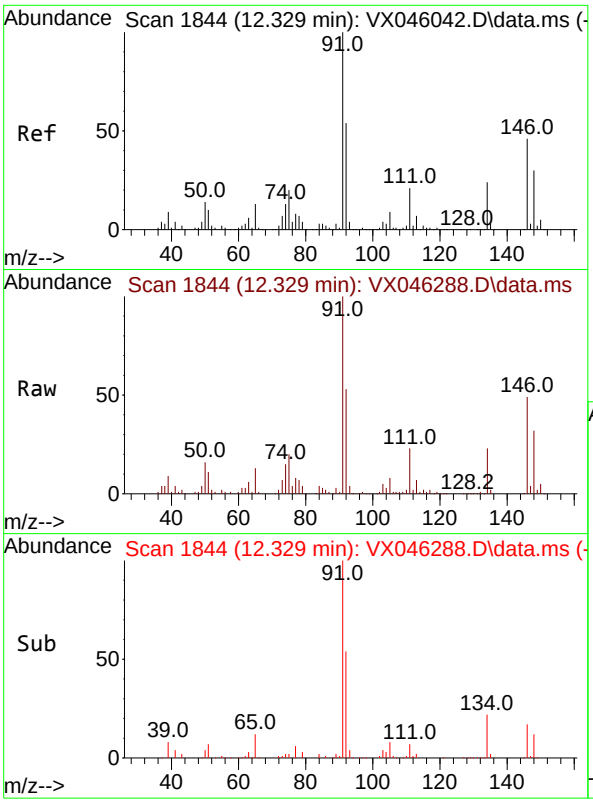



#88
1,4-Dichlorobenzene
Concen: 20.269 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:146 Resp: 41622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.1 | 21.3 | 63.9 |
| 148 | 64.3 | 31.9 | 95.5 |

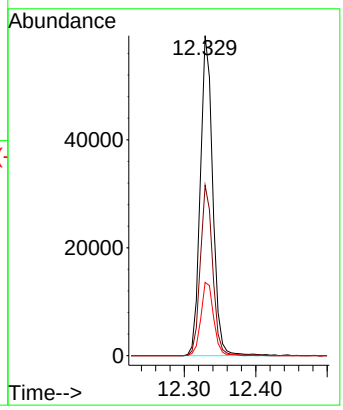





#89
n-Butylbenzene
Concen: 20.230 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 91 Resp: 7182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.7 | 26.9 | 80.7 |
| 134 | 23.5 | 11.8 | 35.3 |




**Instrument :**
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VX0521WBSD01

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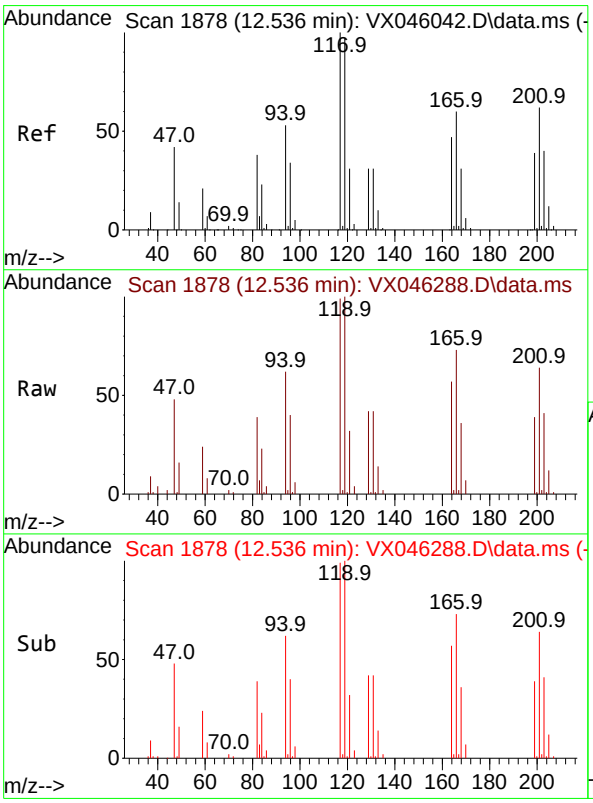
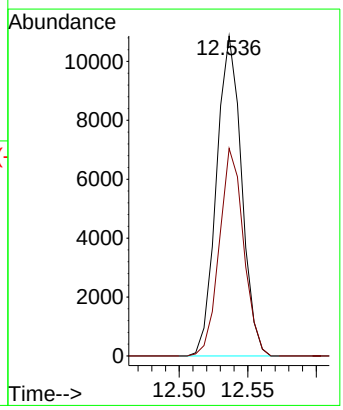
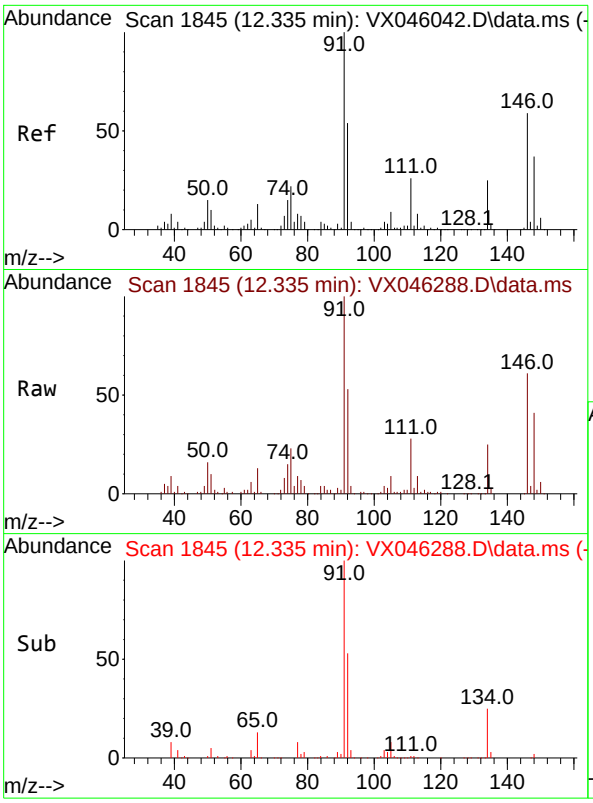



#90
Hexachloroethane
Concen: 19.365 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:117 Resp: 13808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.0 | 31.6 | 94.7 |

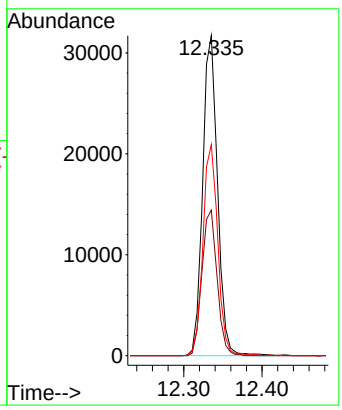





#91
1,2-Dichlorobenzene
Concen: 20.661 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:146 Resp: 4168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.4 | 22.4 | 67.3 |
| 148 | 65.8 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
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VX0521WBSD01

**Manual Integrations**
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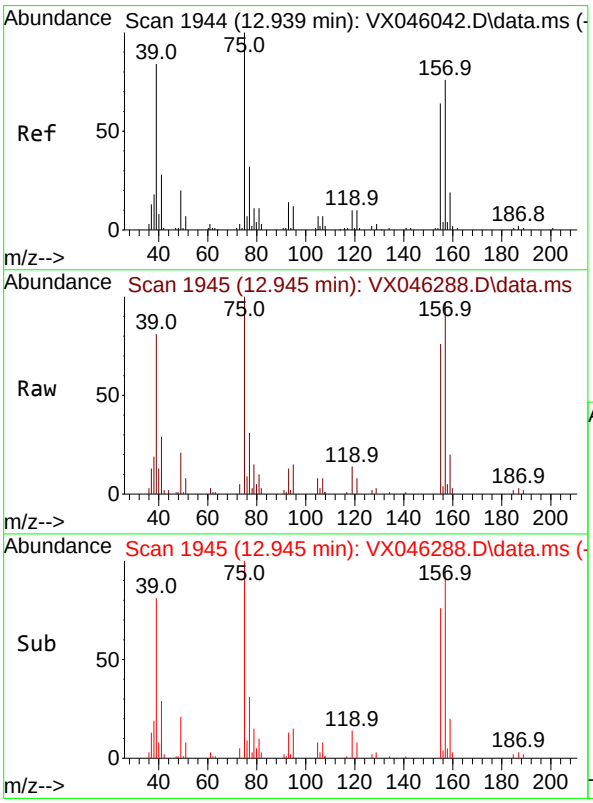
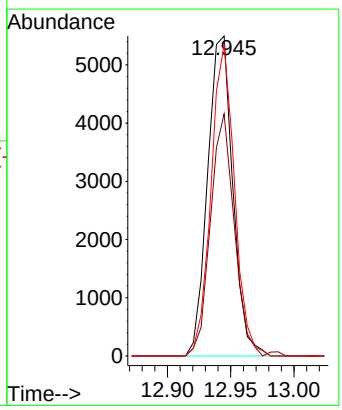
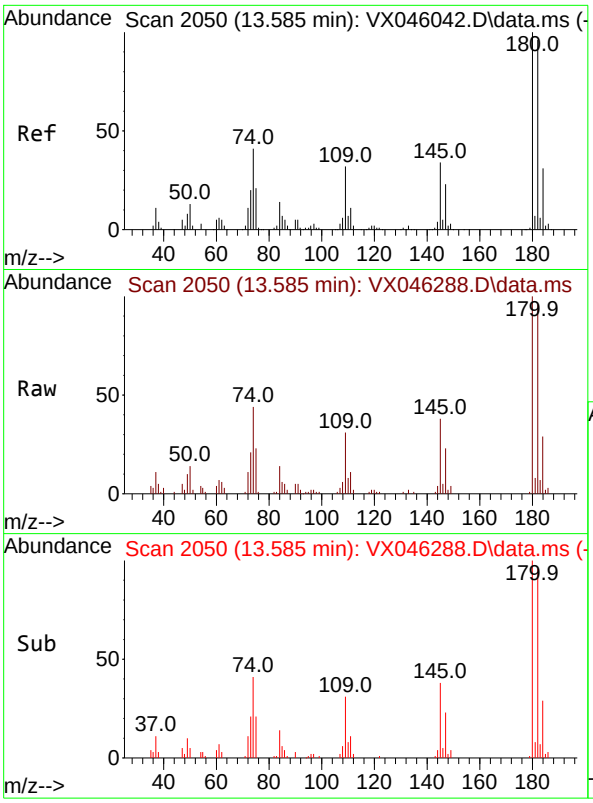



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.662 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion: 75 Resp: 7612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 71.9 | 34.9 | 104.8 |
| 157 | 90.7 | 43.8 | 131.4 |

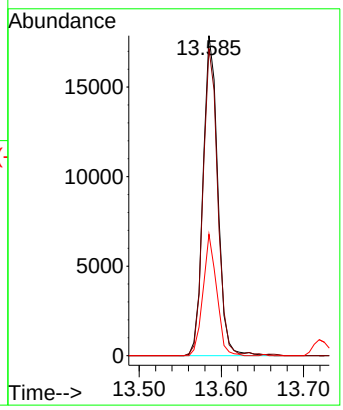





#93
1,2,4-Trichlorobenzene
Concen: 19.179 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:180 Resp: 2222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 47.9 | 143.8 |
| 145 | 35.1 | 17.1 | 51.2 |

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VX0521WBSD01

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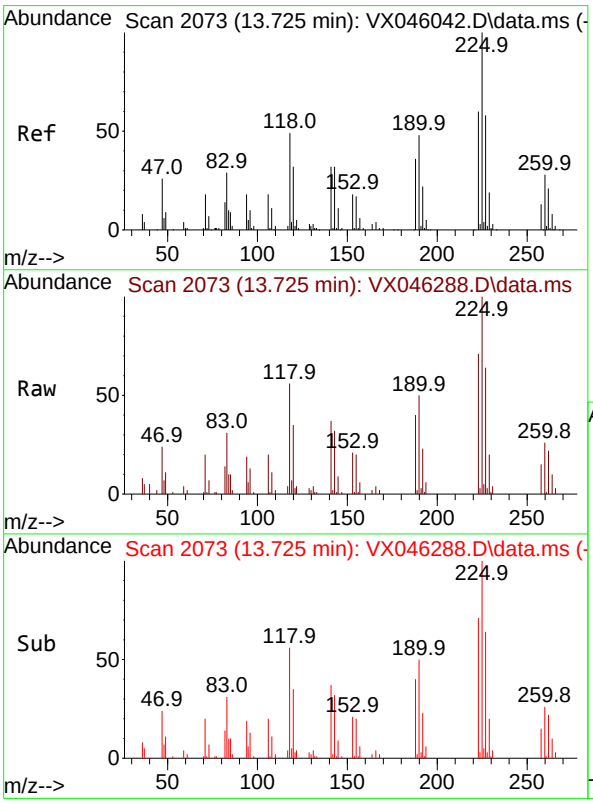
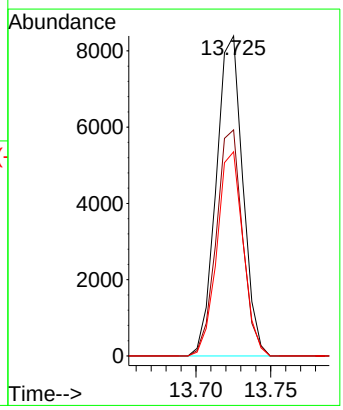
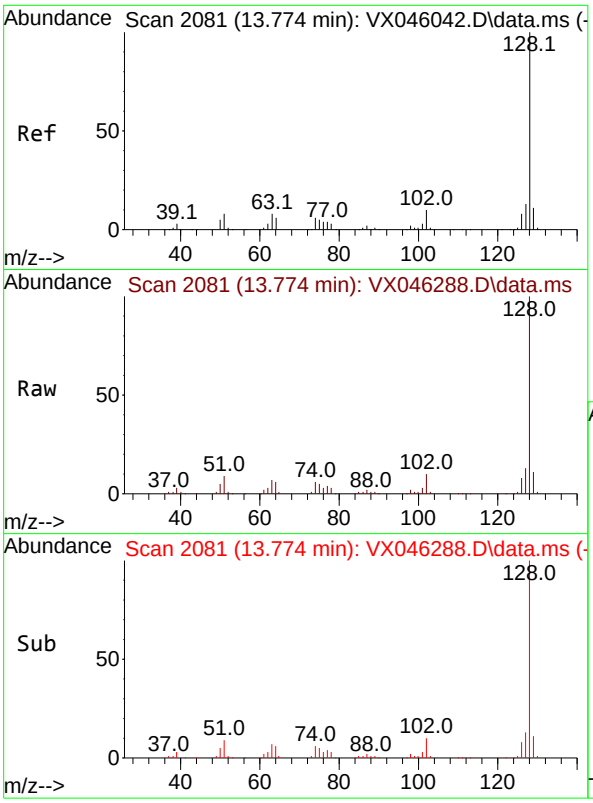



#94
Hexachlorobutadiene
Concen: 20.500 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:225 Resp: 10376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 69.6 | 30.8 | 92.4 |
| 227 | 62.8 | 30.9 | 92.7 |

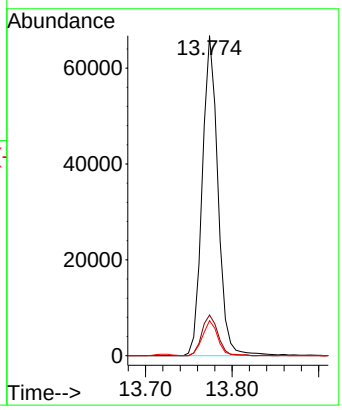





#95
Naphthalene
Concen: 19.771 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:128 Resp: 8403

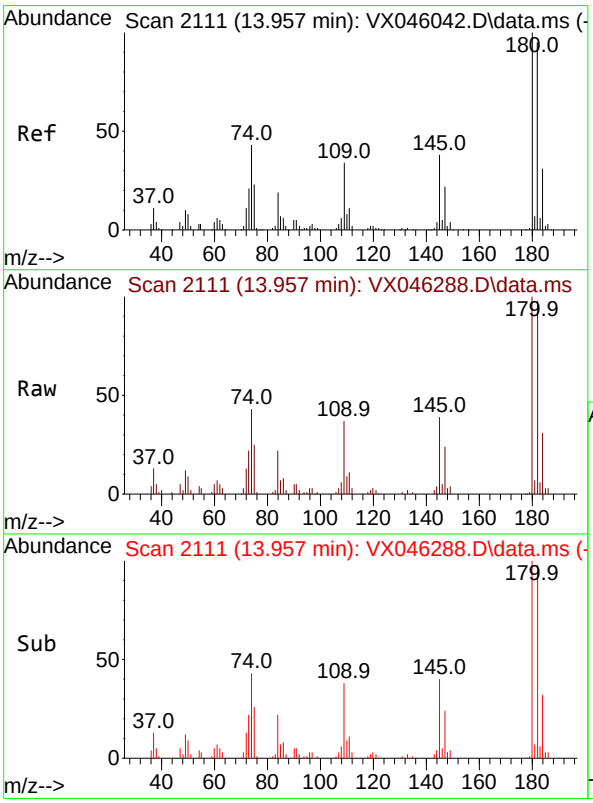
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.1 | 10.4 | 15.6 |
| 129 | 10.7 | 8.6 | 13.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0521WBSD01

**Manual Integrations**
**APPROVED**

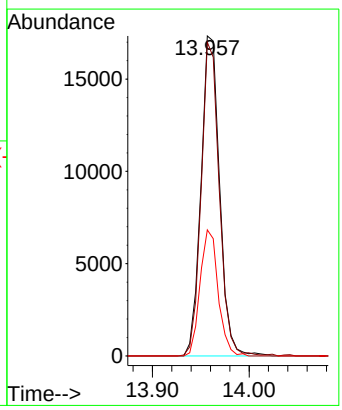
Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025




#96
1,2,3-Trichlorobenzene
Concen: 19.493 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046288.D
Acq: 21 May 2025 11:36

Tgt Ion:180 Resp: 23310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 47.8 | 143.3 |
| 145 | 38.1 | 18.1 | 54.3 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 05/15/25 |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | 05/16/25 |
| Client Sample ID: | SS-11MS | SDG No.: | Q2075 |
| Lab Sample ID: | Q2075-04MS | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 87.4 |
| Sample Wt/Vol: | 8.42 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022350.D | 1 | | 05/20/25 18:04 | VY052025 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 31.6 | | 0.54 | 3.40 | ug/Kg |
| 108-88-3 | Toluene | 40.1 | | 0.53 | 3.40 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 46.5 | | 0.46 | 3.40 | ug/Kg |
| 1330-20-7 | Total Xylenes | 202 | | 1.40 | 10.2 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 34.0 | | 0.53 | 3.40 | ug/Kg |
| 103-65-1 | n-propylbenzene | 39.5 | | 0.50 | 3.40 | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | 47.6 | | 0.56 | 3.40 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 28.7 | | 0.46 | 3.40 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 120 | E | 0.43 | 3.40 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 30.9 | | 0.45 | 3.40 | ug/Kg |
| 99-87-6 | p-Isopropyltoluene | 29.0 | | 0.42 | 3.40 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 30.5 | | 0.99 | 3.40 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.2 | | 63 - 155 | 98% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 42.1 | | 70 - 134 | 84% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 39.0 | | 74 - 123 | 78% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 36.5 | | 38 - 136 | 73% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 135000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 249000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 211000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 91800 | 13.346 | | | |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022350.D
Acq On : 20 May 2025 18:04
Operator : SY/MD
Sample : Q2075-04MS
Misc : 8.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 21 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 134739 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 248613 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 210937 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 91777 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 72386 | 49.156 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 98.320% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 62420 | 42.066 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 84.140% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 237206 | 39.032 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 78.060% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 70287 | 36.488 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 72.980% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 56348 | 40.078 | ug/l | 98 |
| 3) Chloromethane | 2.068 | 50 | 123754 | 41.844 | ug/l | 97 |
| 4) Vinyl Chloride | 2.202 | 62 | 174062 | 52.678 | ug/l | 99 |
| 5) Bromomethane | 2.592 | 94 | 141829 | 52.728 | ug/l | 98 |
| 6) Chloroethane | 2.733 | 64 | 122520 | 59.602 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 156156 | 46.678 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 43057 | 53.630 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 66020 | 45.458 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 72138 | 42.915 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.854 | 59 | 35711 | 317.570 | ug/l # | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 67155 | 46.595 | ug/l | 94 |
| 13) Acrolein | 3.653 | 56 | 7463 | 45.397 | ug/l | 93 |
| 14) Allyl chloride | 4.385 | 41 | 98704 | 39.058 | ug/l | 95 |
| 15) Acrylonitrile | 5.061 | 53 | 103710 | 313.501 | ug/l | 99 |
| 16) Acetone | 3.866 | 43 | 110655 | 400.754 | ug/l | 97 |
| 17) Carbon Disulfide | 4.104 | 76 | 208241 | 44.308 | ug/l | 97 |
| 18) Methyl Acetate | 4.385 | 43 | 84160 | 96.672 | ug/l | 95 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 218891 | 55.081 | ug/l | 97 |
| 20) Methylene Chloride | 4.610 | 84 | 87018 | 48.772 | ug/l | 92 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 73716 | 46.338 | ug/l | 93 |
| 22) Diisopropyl ether | 6.019 | 45 | 245578 | 46.017 | ug/l | 96 |
| 23) Vinyl Acetate | 5.958 | 43 | 330432m | 102.488 | ug/l | |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 139506 | 46.790 | ug/l | 98 |
| 25) 2-Butanone | 6.890 | 43 | 148252 | 320.987 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 112808 | 42.539 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 89679 | 48.851 | ug/l | 96 |
| 28) Bromochloromethane | 7.244 | 49 | 64533 | 50.744 | ug/l | 95 |
| 29) Tetrahydrofuran | 7.262 | 42 | 90620 | 304.973 | ug/l | 94 |
| 30) Chloroform | 7.421 | 83 | 142853 | 49.952 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 125366 | 42.084 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 119863 | 45.684 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 98113 | 40.143 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 56188 | 47.780 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 99798 | 39.447 | ug/l | 98 |
| 39) Methylcyclohexane | 9.109 | 83 | 138464 | 42.168 | ug/l | 95 |
| 40) Benzene | 8.079 | 78 | 337331 | 46.557 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022350.D
Acq On : 20 May 2025 18:04
Operator : SY/MD
Sample : Q2075-04MS
Misc : 8.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 21 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 37494m | 48.065 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 93895 | 47.921 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 118747 | 46.301 | ug/l | | 98 |
| 44) Trichloroethene | 8.866 | 130 | 76767 | 42.611 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 77314 | 44.259 | ug/l | | 100 |
| 46) Dibromomethane | 9.231 | 93 | 47093 | 49.983 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.420 | 83 | 110805 | 45.333 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.219 | 41 | 61695 | 51.439 | ug/l | | 93 |
| 49) 1,4-Dioxane | 9.225 | 88 | 12584 | 1182.288 | ug/l | | 87 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 331638 | 263.537 | ug/l | | 96 |
| 52) Toluene | 10.170 | 92 | 270916 | 59.047 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 100132 | 41.978 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 111408 | 40.765 | ug/l | | 95 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 63450 | 52.591 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 86668 | 46.116 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 106036 | 49.466 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 233392 | 276.682 | ug/l | | 97 |
| 59) 2-Hexanone | 10.755 | 43 | 229677 | 272.212 | ug/l | | 98 |
| 60) Dibromochloromethane | 10.908 | 129 | 74674 | 47.686 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 57989 | 51.569 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 86840 | 44.540 | ug/l | | 97 |
| 65) Chlorobenzene | 11.438 | 112 | 202100 | 42.467 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 72002 | 44.010 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 610361 | 68.483 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.621 | 106 | 644327 | 191.856 | ug/l | | 97 |
| 69) o-Xylene | 11.950 | 106 | 336339 | 105.852 | ug/l | | 97 |
| 70) Styrene | 11.969 | 104 | 229737 | 42.862 | ug/l | | 85 |
| 71) Bromoform | 12.133 | 173 | 41163 | 46.614 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 380671 | 50.067 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 39779 | 18.293 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 67117 | 57.399 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 49717m | 53.471 | ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 74750 | 46.031 | ug/l | | 100 |
| 78) n-propylbenzene | 12.591 | 91 | 533019 | 58.120 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 302269 | 59.976 | ug/l | | 86 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 429588 | 69.992 | ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 17234 | 37.548 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 214721 | 41.421 | ug/l | | 97 |
| 83) tert-Butylbenzene | 12.993 | 119 | 230609 | 42.273 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 1031502 | 169.301 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.176 | 105 | 368553 | 45.512 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 291194 | 42.756 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 138719 | 41.845 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 134979 | 42.329 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 289529 | 44.935 | ug/l | | 90 |
| 90) Hexachloroethane | 13.883 | 117 | 61677 | 44.862 | ug/l | | 86 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 121088 | 43.485 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 11322 | 60.046 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 52505 | 32.643 | ug/l | # | 89 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 25002 | 27.873 | ug/l | | 97 |
| 95) Naphthalene | 15.145 | 128 | 206730 | 67.728 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 45418 | 33.285 | ug/l | # | 69 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022350.D
Acq On : 20 May 2025 18:04
Operator : SY/MD
Sample : Q2075-04MS
Misc : 8.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 21 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

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

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

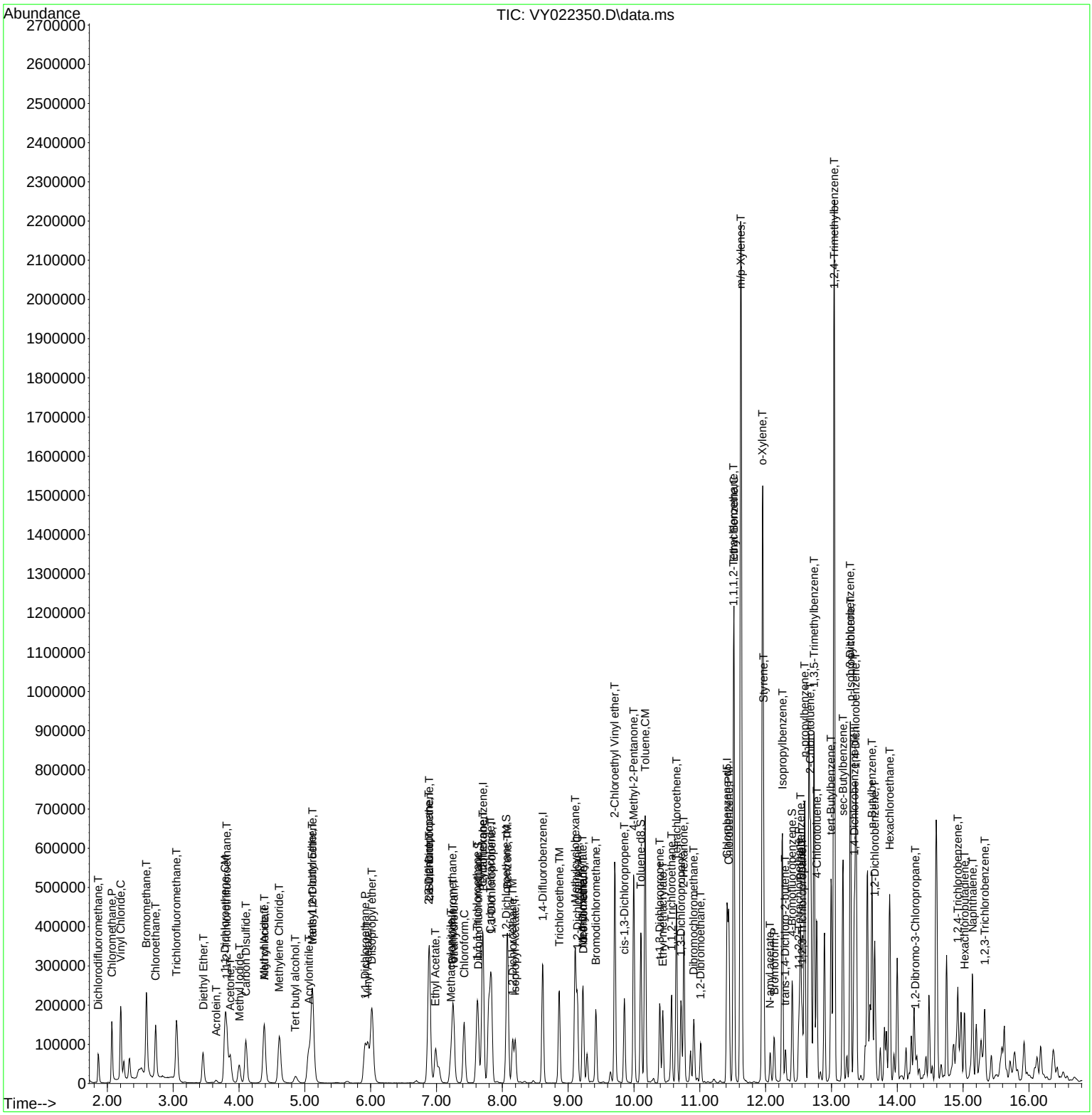
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022350.D
Acq On : 20 May 2025 18:04
Operator : SY/MD
Sample : Q2075-04MS
Misc : 8.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

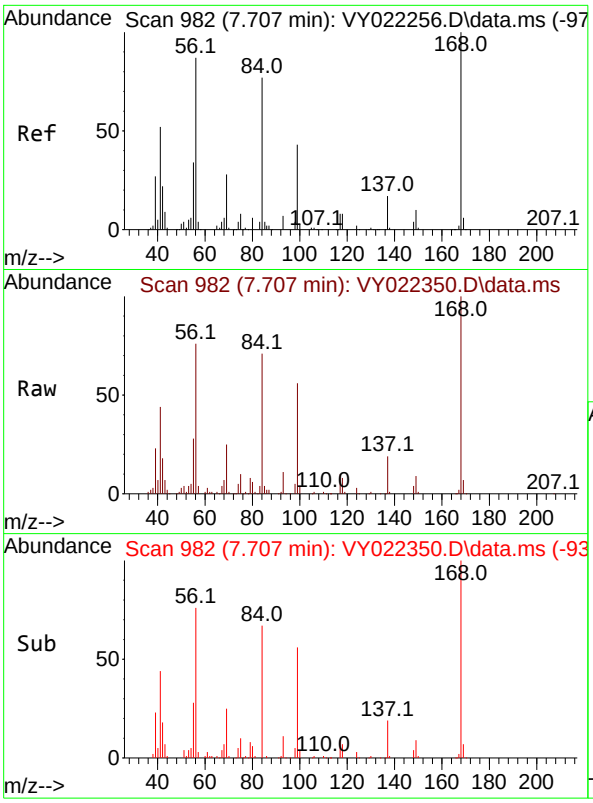
Quant Time: May 21 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

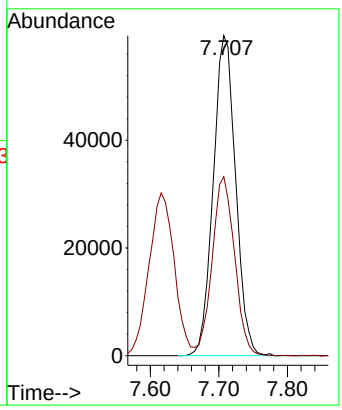





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:168 Resp: 13473

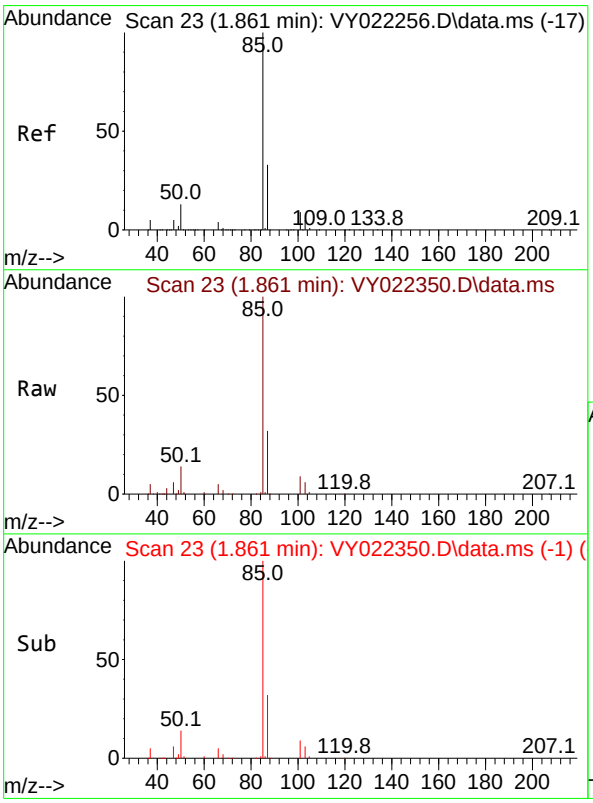
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.9 | 44.2 | 66.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
**APPROVED**

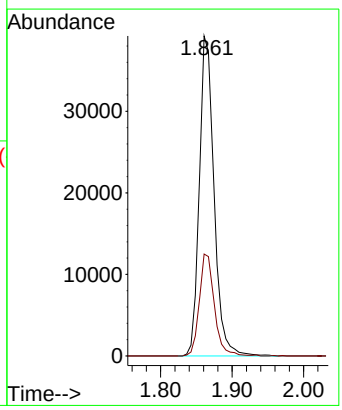
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

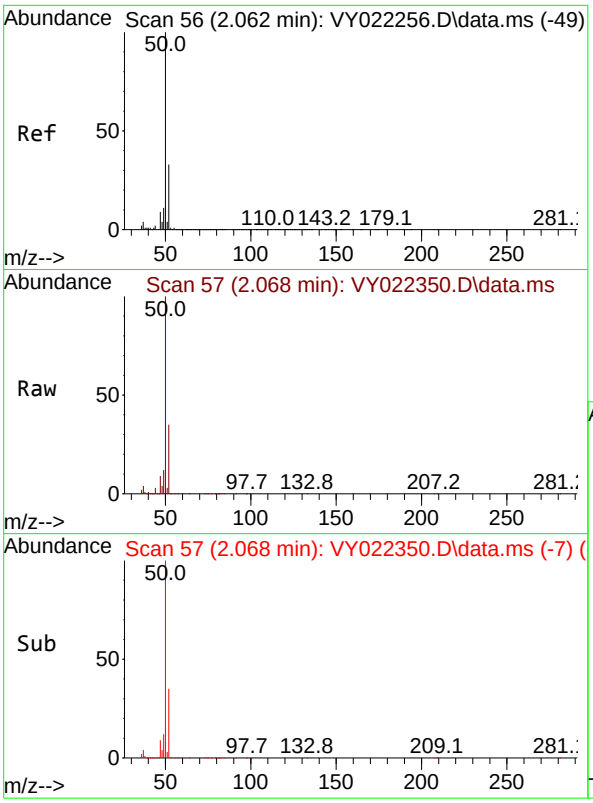



#2
Dichlorodifluoromethane
Concen: 40.078 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 85 Resp: 56348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.8 | 16.5 | 49.5 |

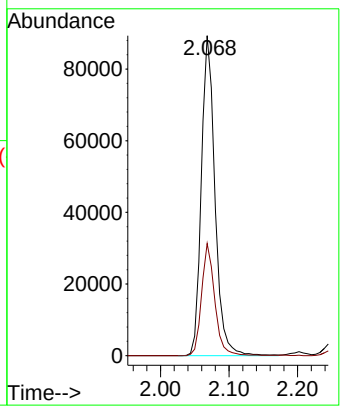





#3
Chloromethane
Concen: 41.844 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 50 Resp: 12375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 35.1 | 26.5 | 39.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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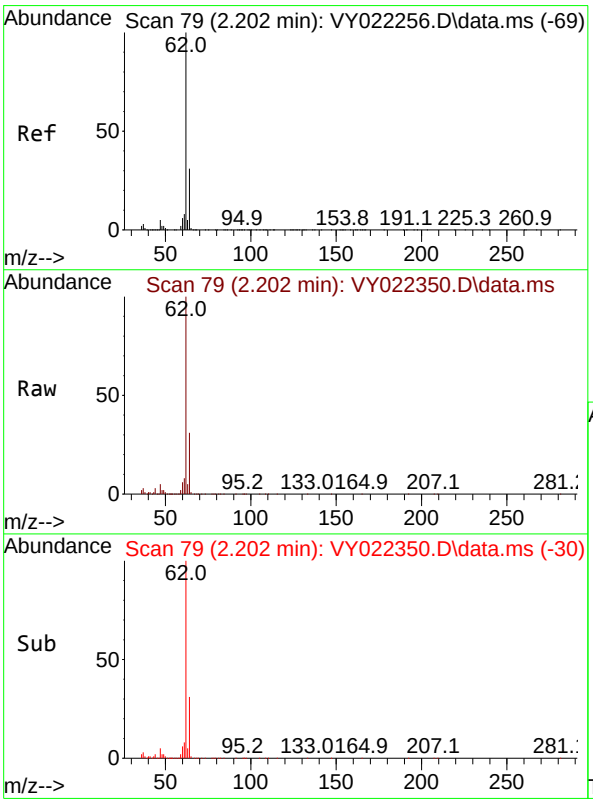
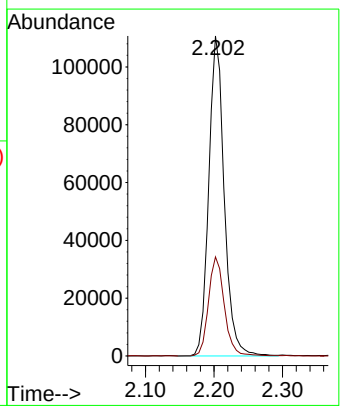
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

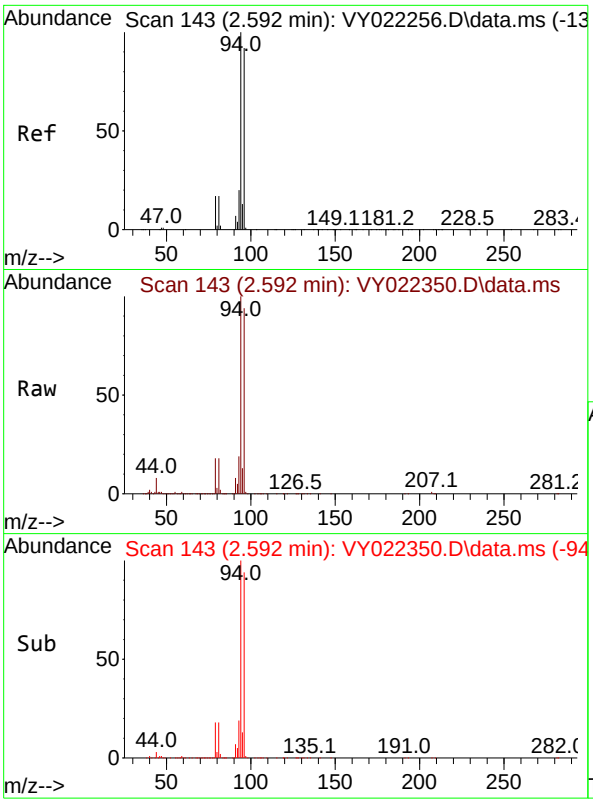



#4
Vinyl Chloride
Concen: 52.678 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 62 Resp: 174062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.9 | 24.5 | 36.7 |

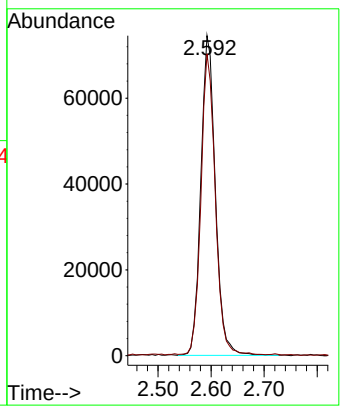





#5
Bromomethane
Concen: 52.728 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 94 Resp: 14182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.1 | 73.4 | 110.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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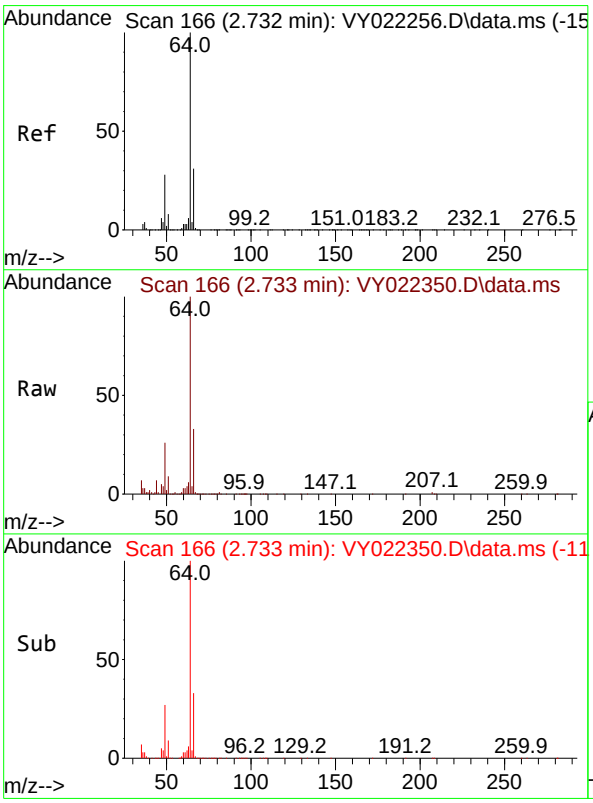
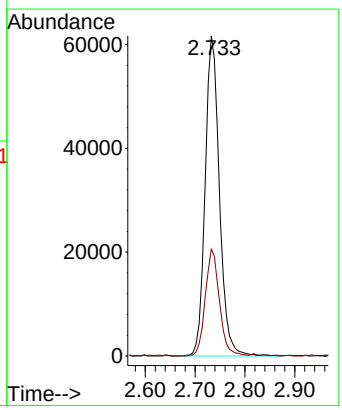
Supervised By :Semsettin Yesilyurt 05/21/2025

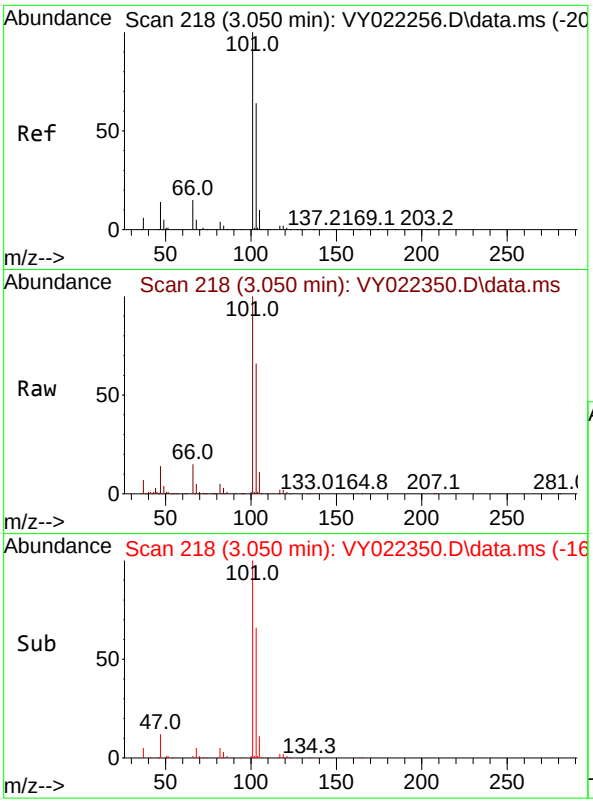



#6
Chloroethane
Concen: 59.602 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 64 Resp: 122520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.3 | 24.8 | 37.2 |

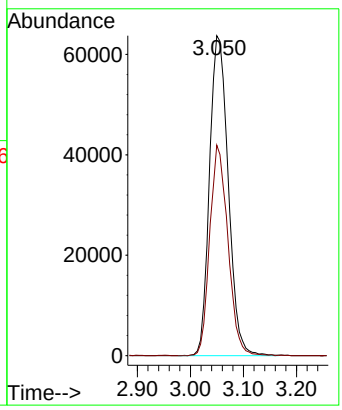





#7
Trichlorofluoromethane
Concen: 46.678 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:101 Resp: 15615(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.8 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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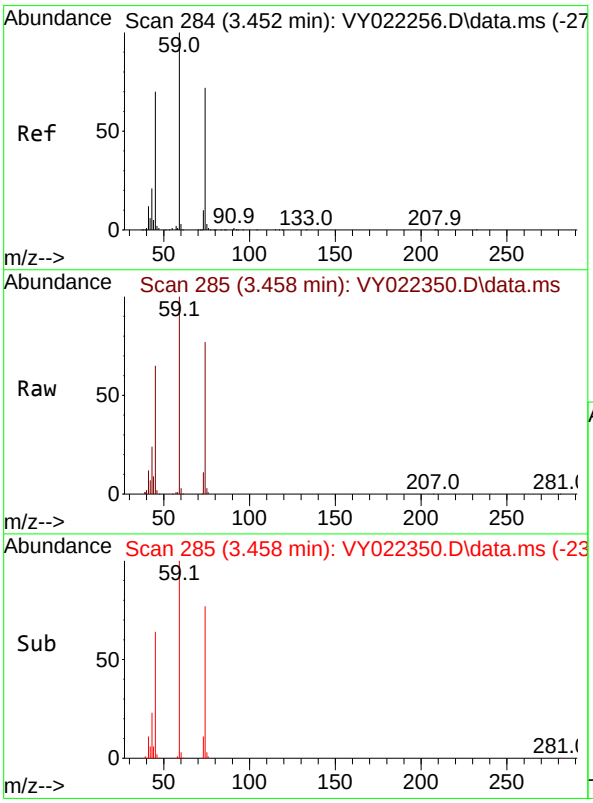
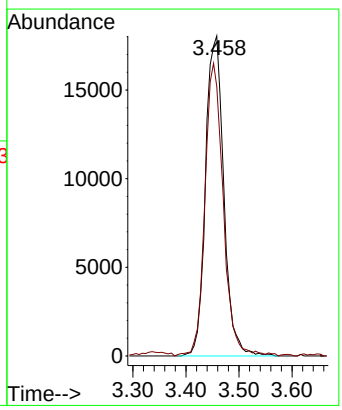
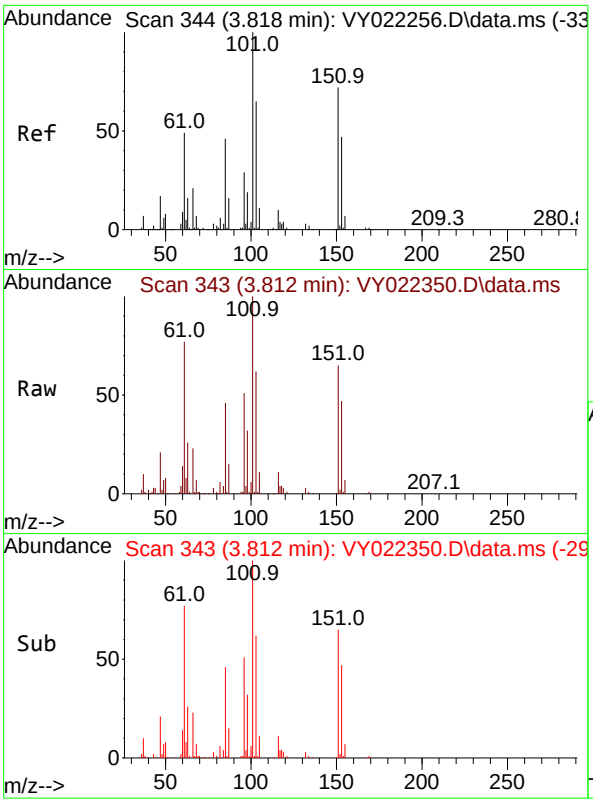



#8
Diethyl Ether
Concen: 53.630 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 74 Resp: 43057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 91.8 | 48.6 | 145.8 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.458 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:101 Resp: 6602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 48.1 | 38.6 | 58.0 |
| 151 | 73.6 | 59.7 | 89.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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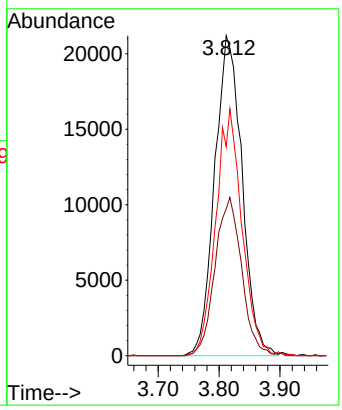
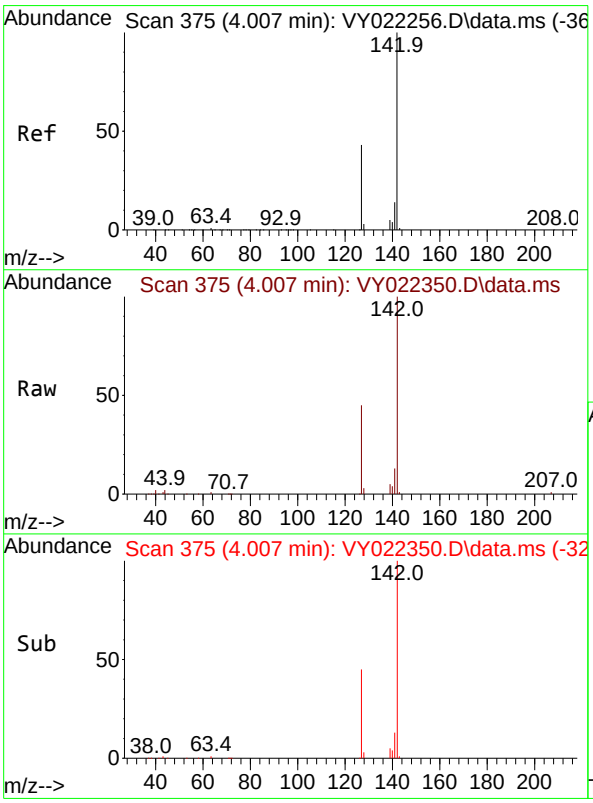
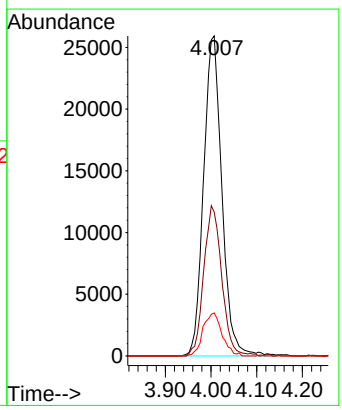


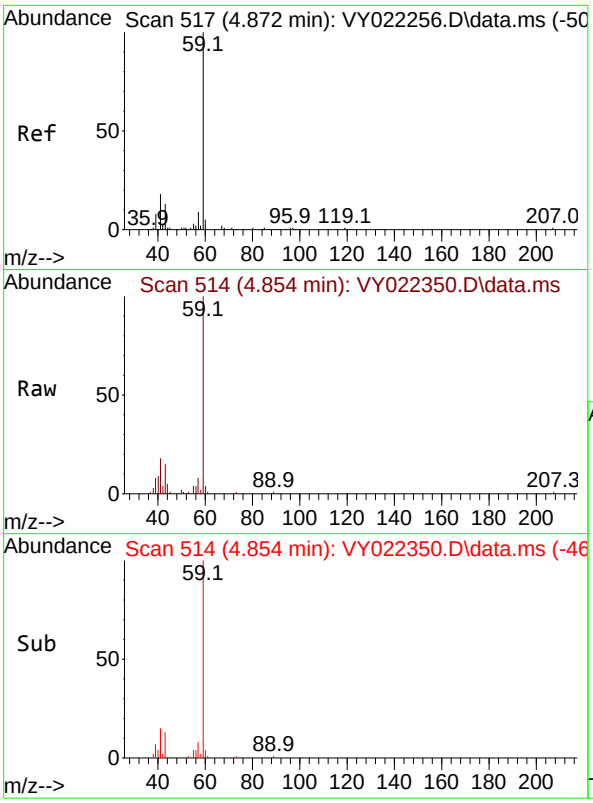




#10
Methyl Iodide
Concen: 42.915 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:142 Resp: 72138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.1 | 35.7 | 53.5 |
| 141 | 14.0 | 11.1 | 16.7 |

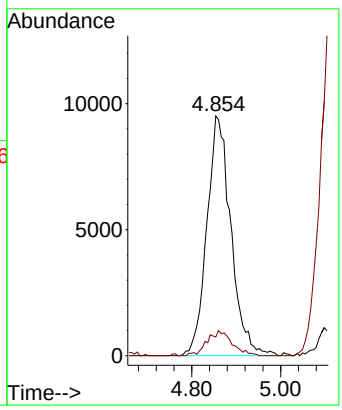





#11
Tert butyl alcohol
Concen: 317.570 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.018 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 59 Resp: 3571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

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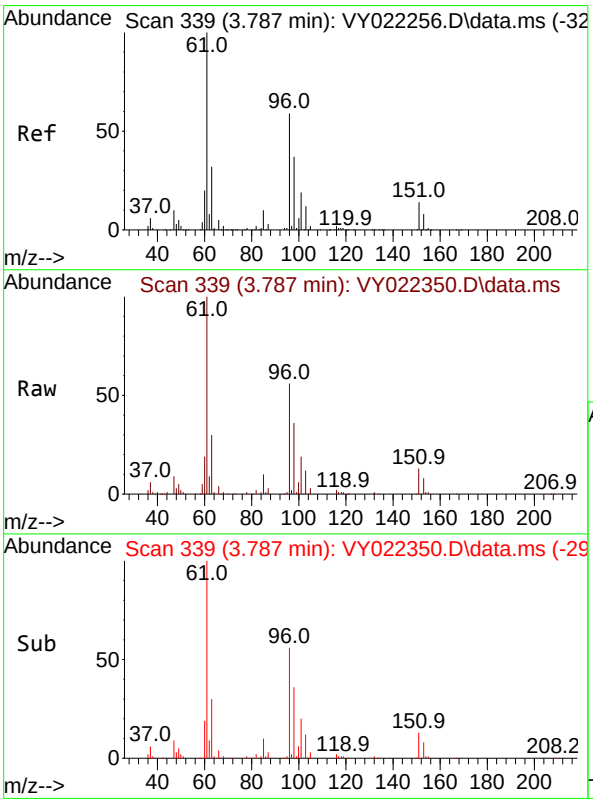
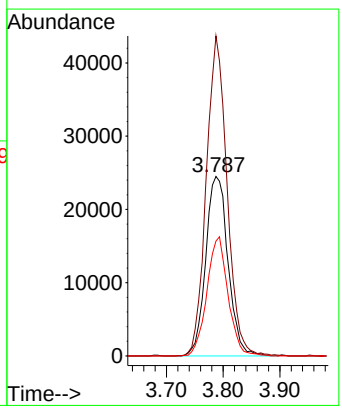
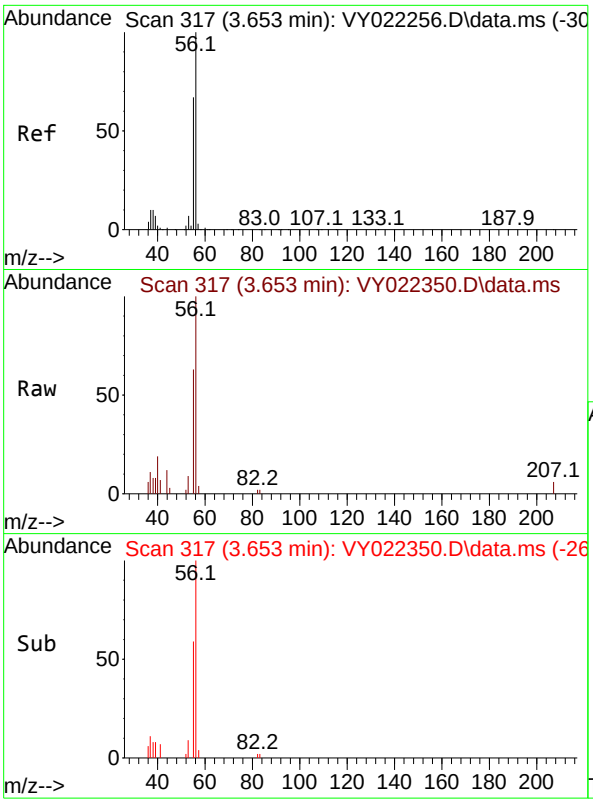



#12
1,1-Dichloroethene
Concen: 46.595 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 96 Resp: 67155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 178.1 | 134.9 | 202.3 |
| 98 | 64.0 | 49.9 | 74.9 |

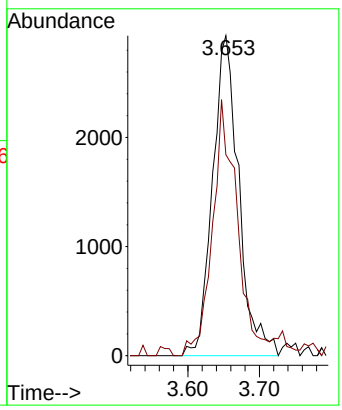





#13
Acrolein
Concen: 45.397 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 56 Resp: 746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 75.0 | 55.6 | 83.4 |




**Instrument :**
MSVOA_Y
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SS-11MS

**Manual Integrations**
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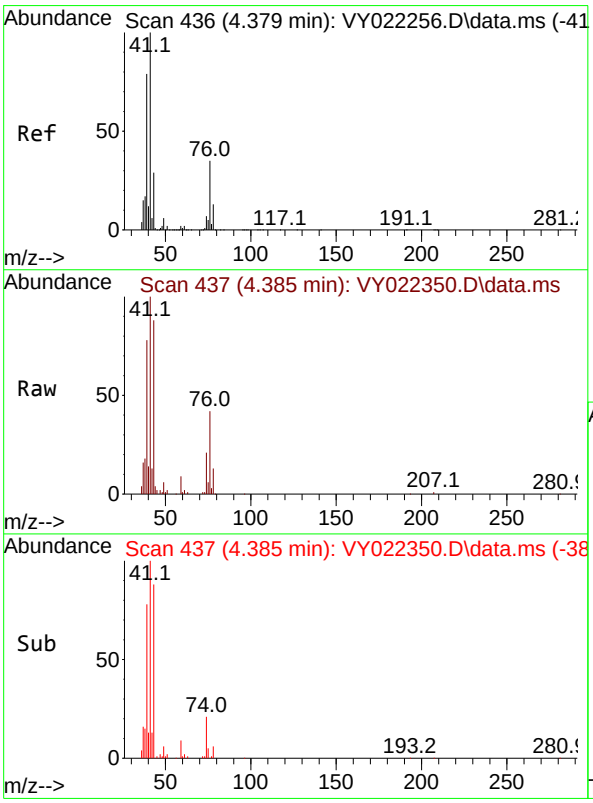
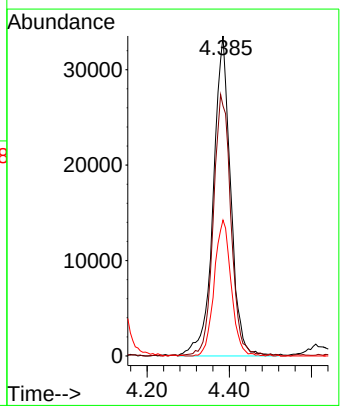
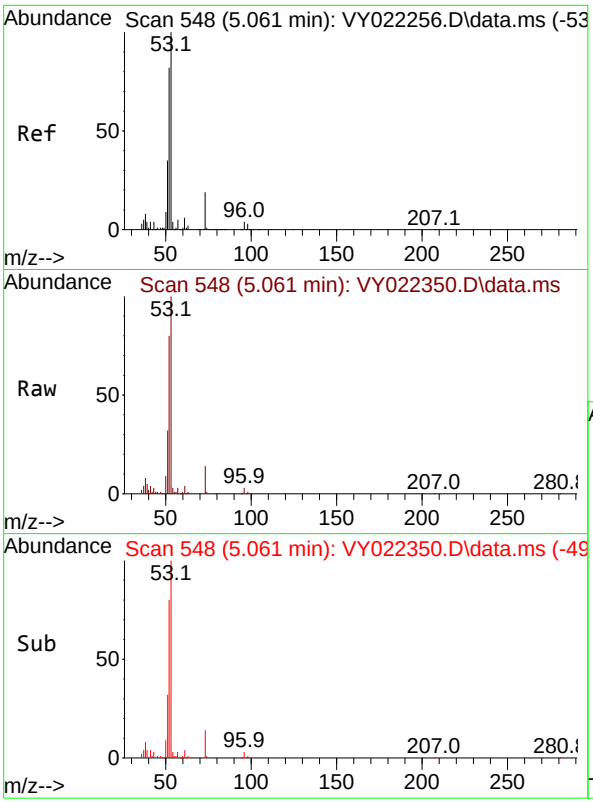



#14
Allyl chloride
Concen: 39.058 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 41 Resp: 98704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 82.7 | 63.4 | 95.0 |
| 76 | 41.3 | 29.5 | 44.3 |

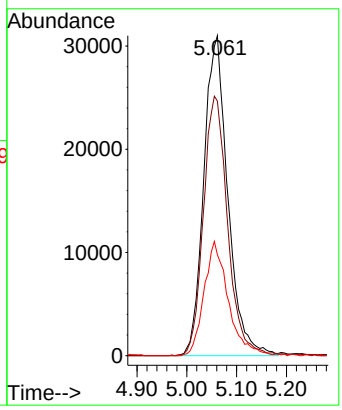





#15
Acrylonitrile
Concen: 313.501 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 53 Resp: 10371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.8 | 66.1 | 99.1 |
| 51 | 35.9 | 30.0 | 45.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

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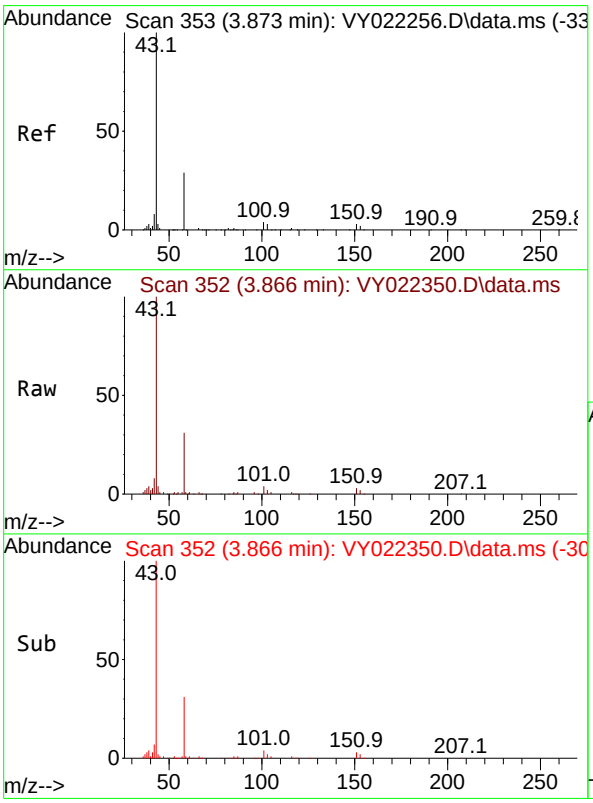
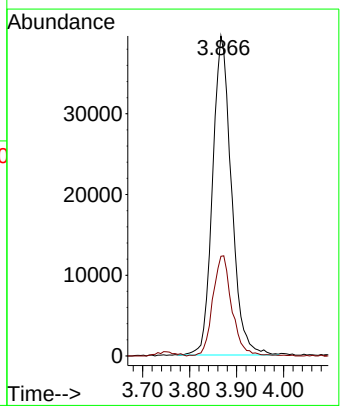
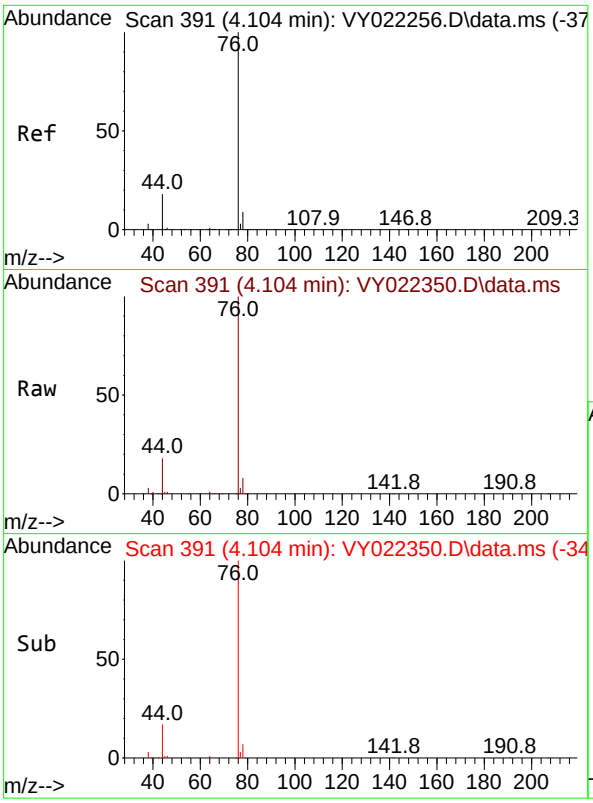



#16
Acetone
Concen: 400.754 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 43 Resp: 110655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.1 | 23.6 | 35.4 |






#17
Carbon Disulfide
Concen: 44.308 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 76 Resp: 20824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 7.8 | 7.2 | 10.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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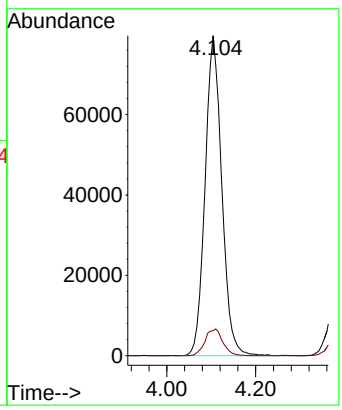
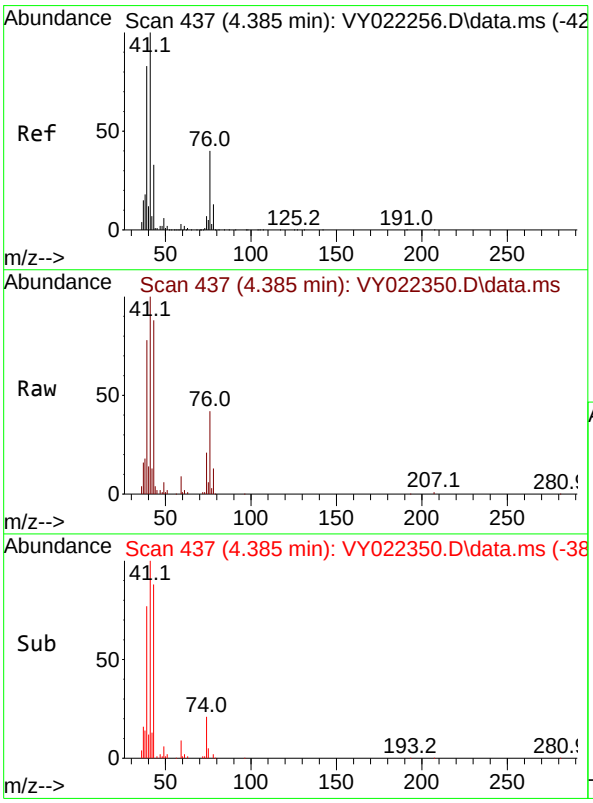
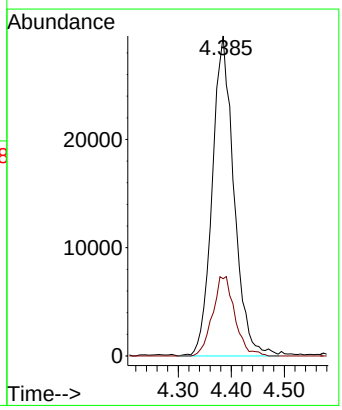


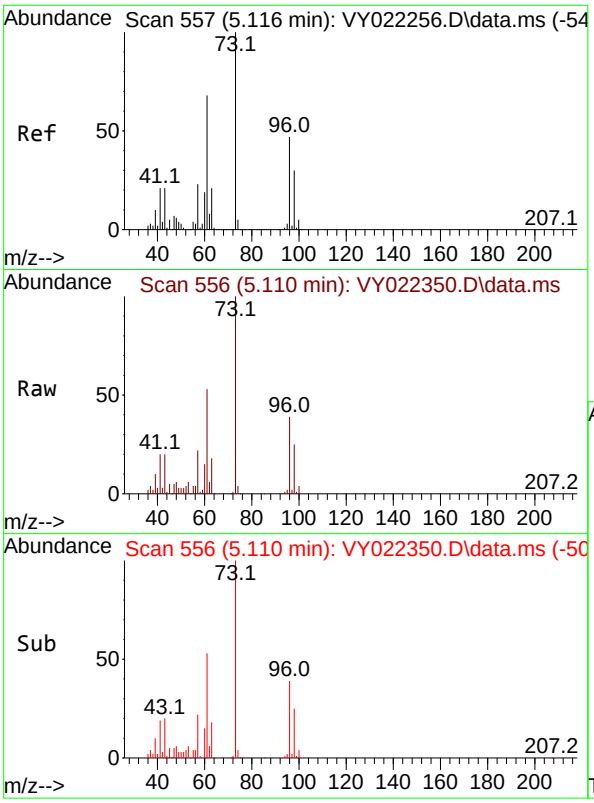




#18
Methyl Acetate
Concen: 96.672 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 43 Resp: 84160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.5 | 18.2 | 27.4 |

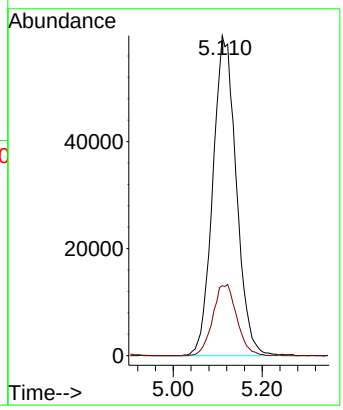





#19
Methyl tert-butyl Ether
Concen: 55.081 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 73 Resp: 21889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.8 | 18.6 | 28.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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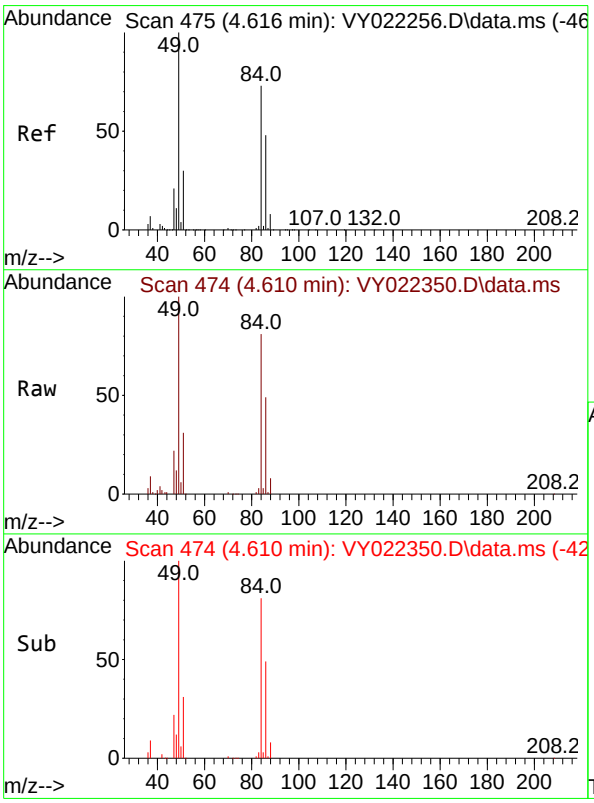
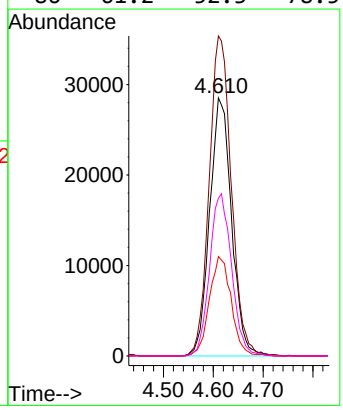
Supervised By :Semsettin Yesilyurt 05/21/2025

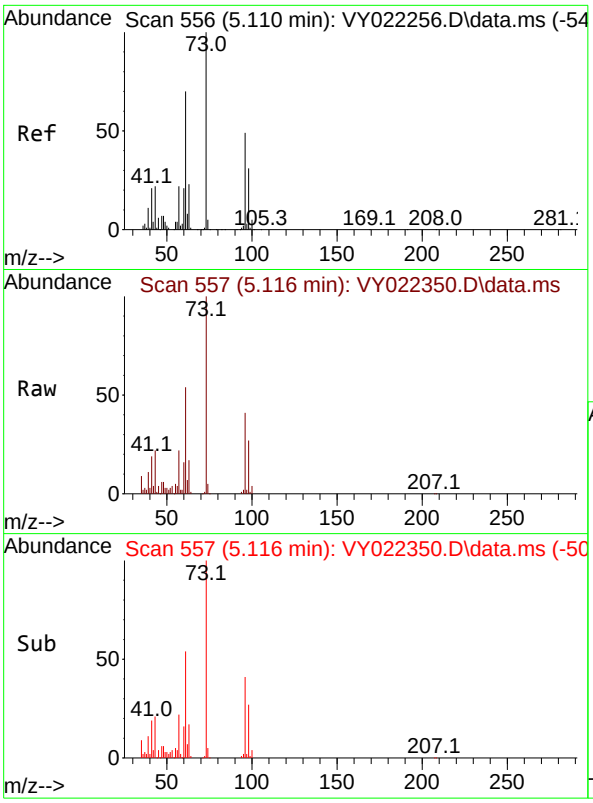



#20
Methylene Chloride
Concen: 48.772 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 84 Resp: 87018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 124.0 | 109.6 | 164.4 |
| 51 | 38.5 | 32.4 | 48.6 |
| 86 | 61.2 | 52.3 | 78.5 |

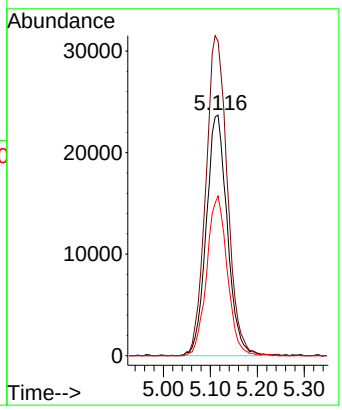





#21
trans-1,2-Dichloroethene
Concen: 46.338 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 96 Resp: 7371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 130.7 | 113.4 | 170.0 |
| 98 | 66.4 | 50.9 | 76.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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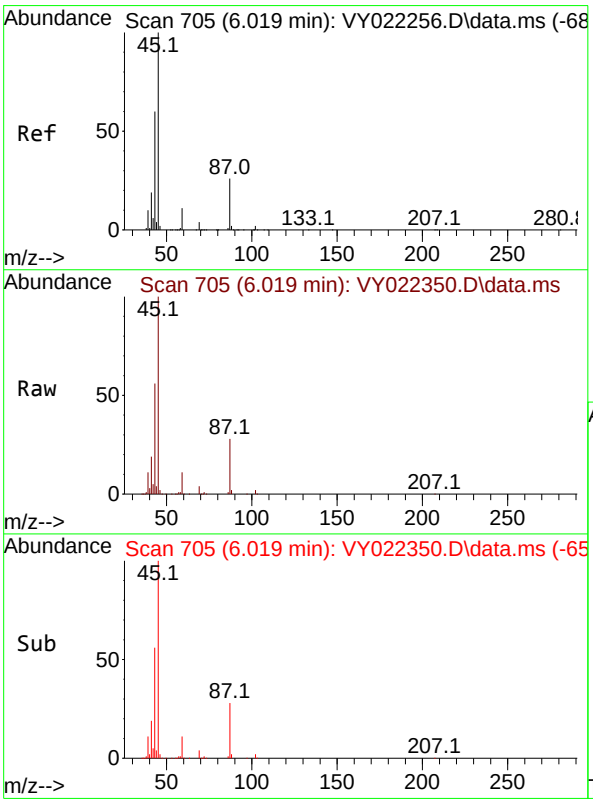
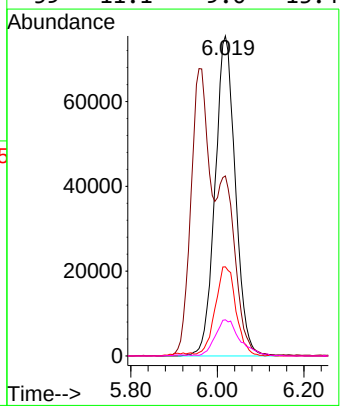
Supervised By :Semsettin Yesilyurt 05/21/2025

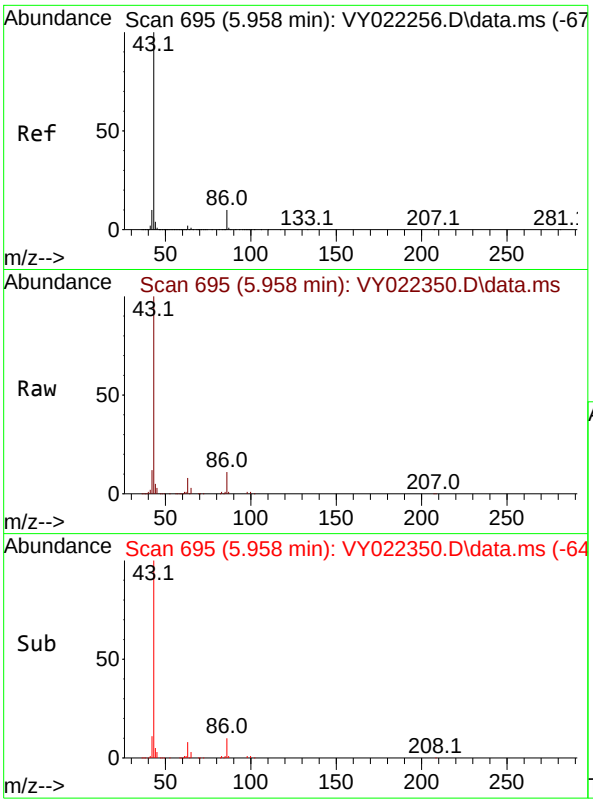



#22
Diisopropyl ether
Concen: 46.017 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 45 Resp: 245578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 55.9 | 48.2 | 72.2 |
| 87 | 27.9 | 21.4 | 32.0 |
| 59 | 11.1 | 9.0 | 13.4 |

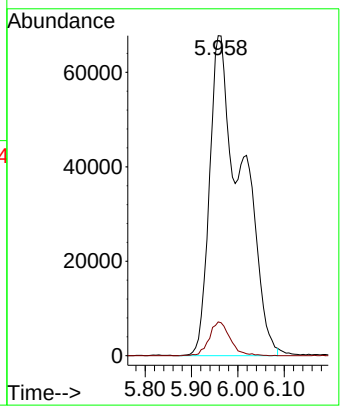





#23
Vinyl Acetate
Concen: 102.488 ug/l m
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 43 Resp: 33043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.5 | 7.8 | 11.8 |




**Instrument :**
MSVOA_Y
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SS-11MS

**Manual Integrations**
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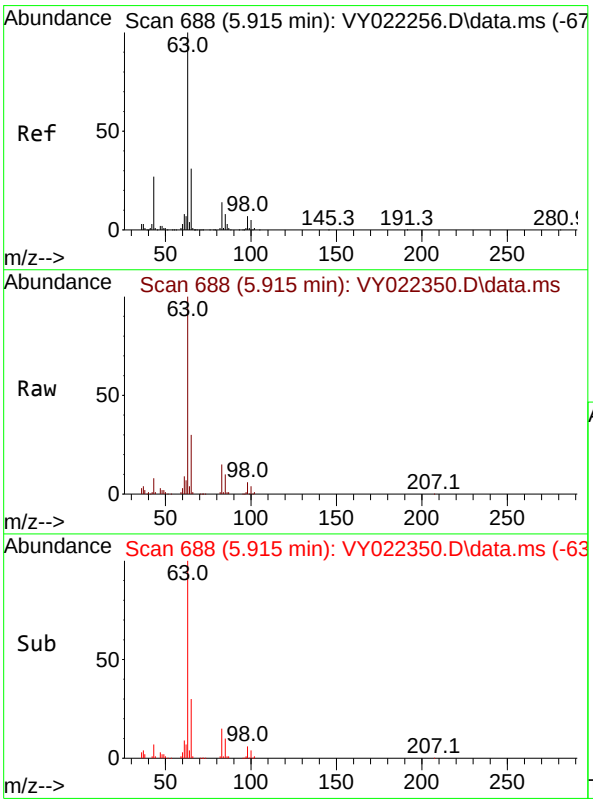
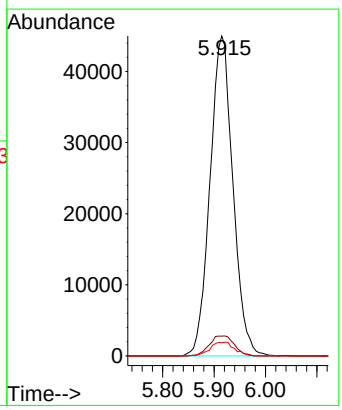
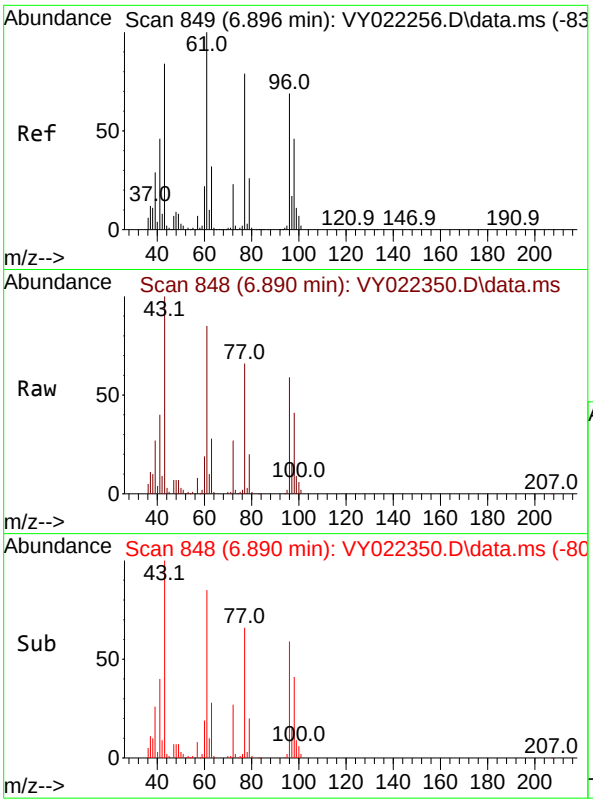



#24
1,1-Dichloroethane
Concen: 46.790 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 63 Resp: 139506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.2 | 3.5 | 10.5 |
| 100 | 4.2 | 2.4 | 7.2 |

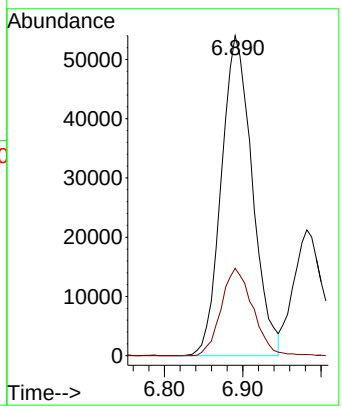





#25
2-Butanone
Concen: 320.987 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 43 Resp: 14825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.3 | 22.1 | 33.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

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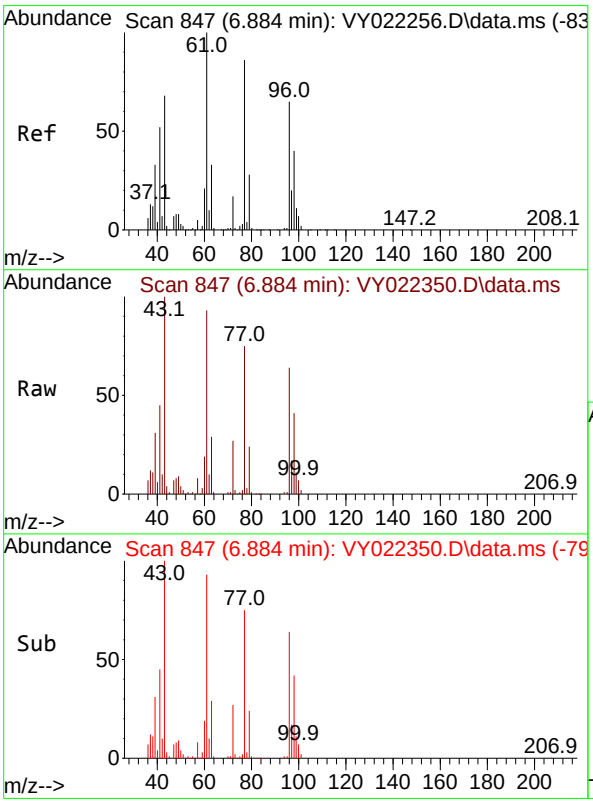
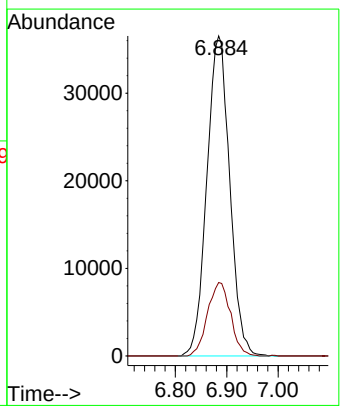
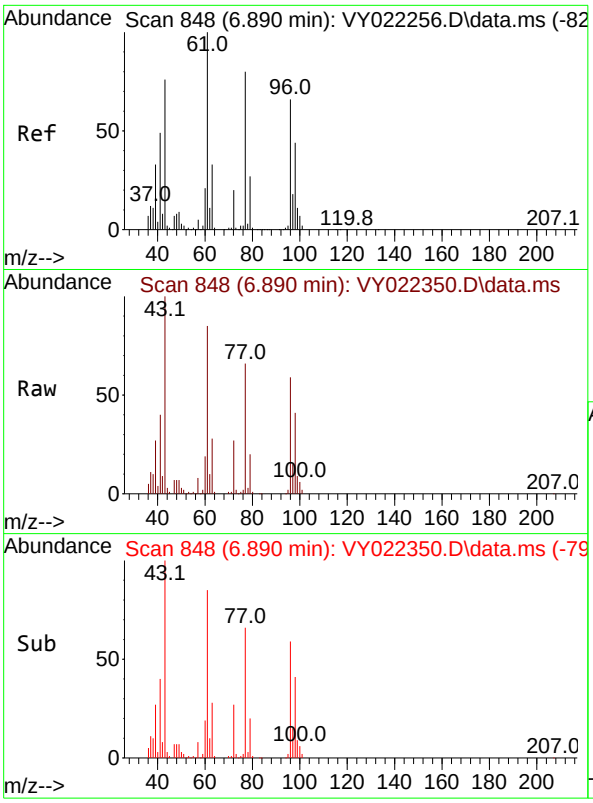



#26
2,2-Dichloropropane
Concen: 42.539 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 77 Resp: 112808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.1 | 11.2 | 33.5 |

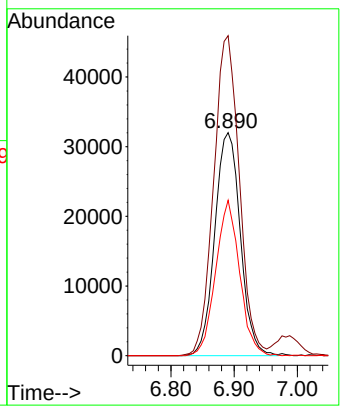





#27
cis-1,2-Dichloroethene
Concen: 48.851 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 96 Resp: 8967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.4 | 0.0 | 302.6 |
| 98 | 65.3 | 0.0 | 128.8 |




**Instrument :**
MSVOA_Y
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SS-11MS

**Manual Integrations**
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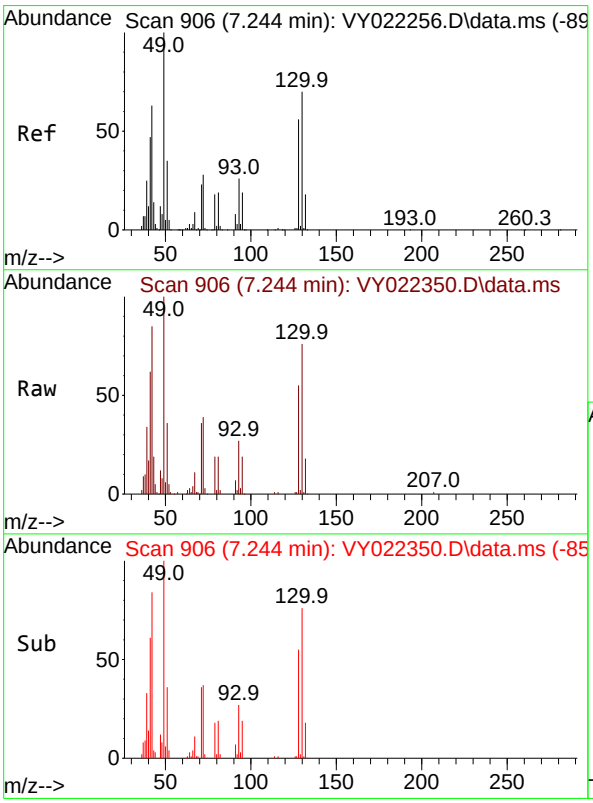
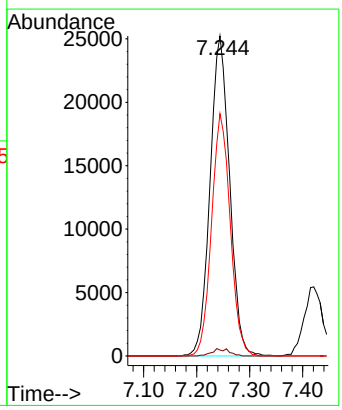
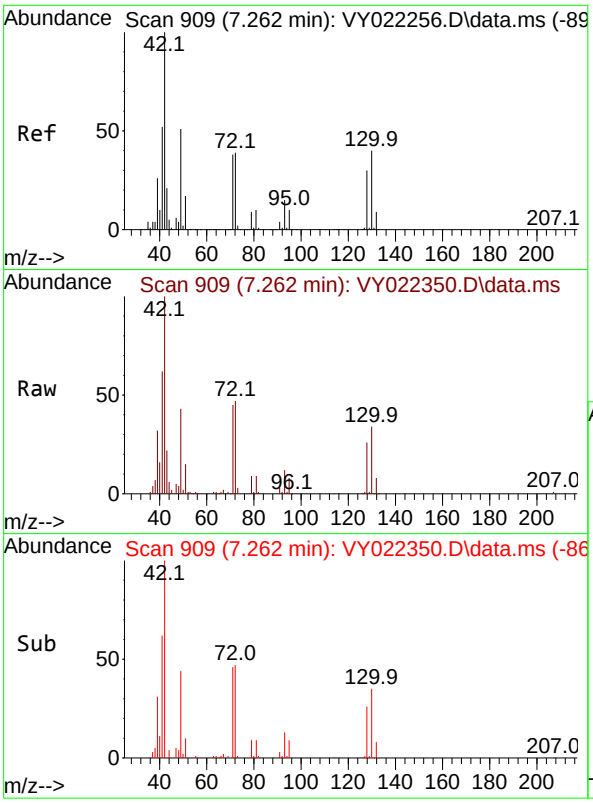



#28
Bromochloromethane
Concen: 50.744 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 49 Resp: 64533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 3.6 |
| 130 | 72.4 | 54.7 | 82.1 |

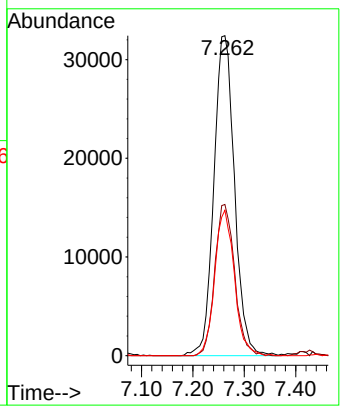





#29
Tetrahydrofuran
Concen: 304.973 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 42 Resp: 9062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 45.6 | 33.8 | 50.6 |
| 71 | 43.2 | 31.5 | 47.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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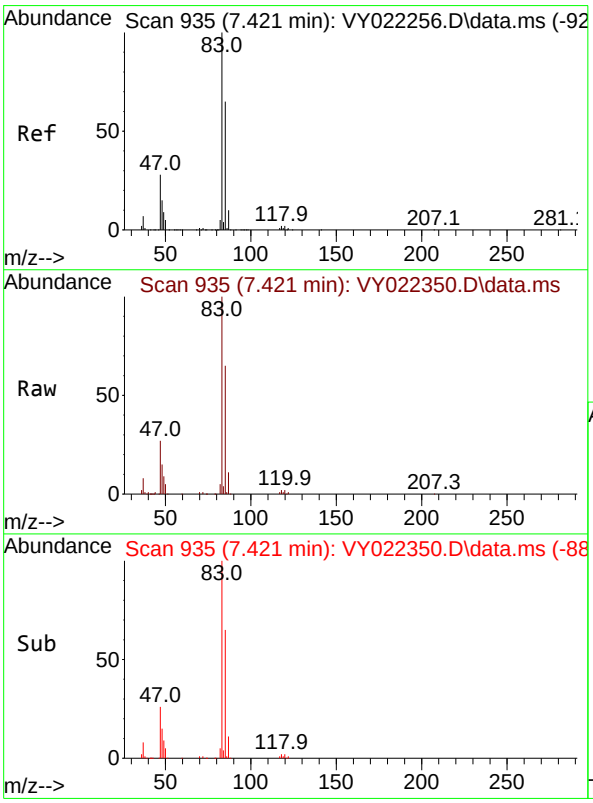
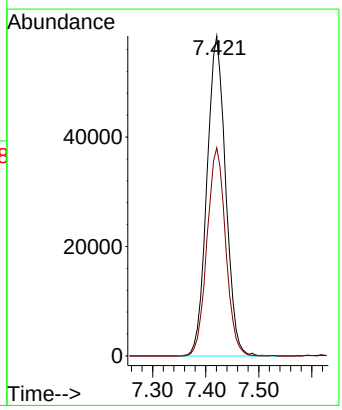
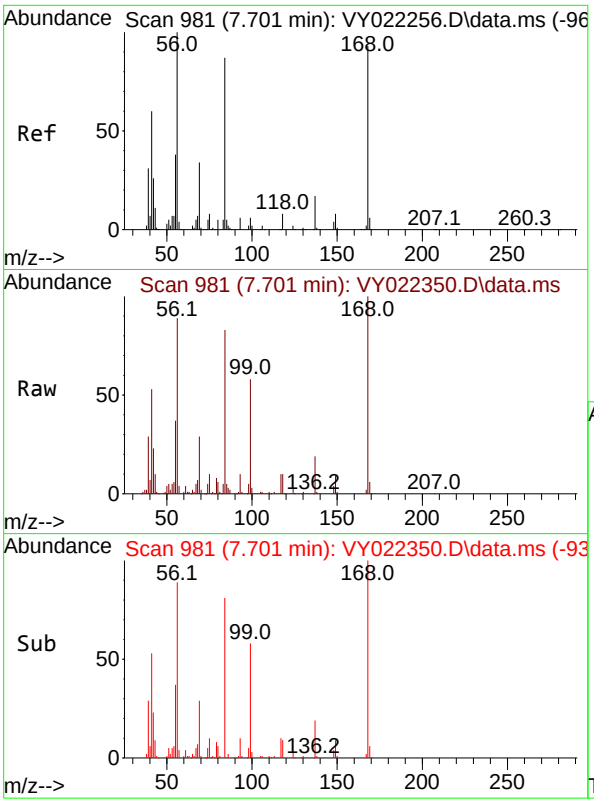



#30
Chloroform
Concen: 49.952 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 83 Resp: 142853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.0 | 51.8 | 77.8 |

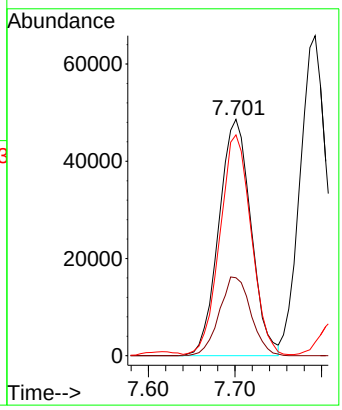





#31
Cyclohexane
Concen: 42.084 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 56 Resp: 12536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 33.0 | 27.4 | 41.2 |
| 84 | 92.3 | 70.0 | 105.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

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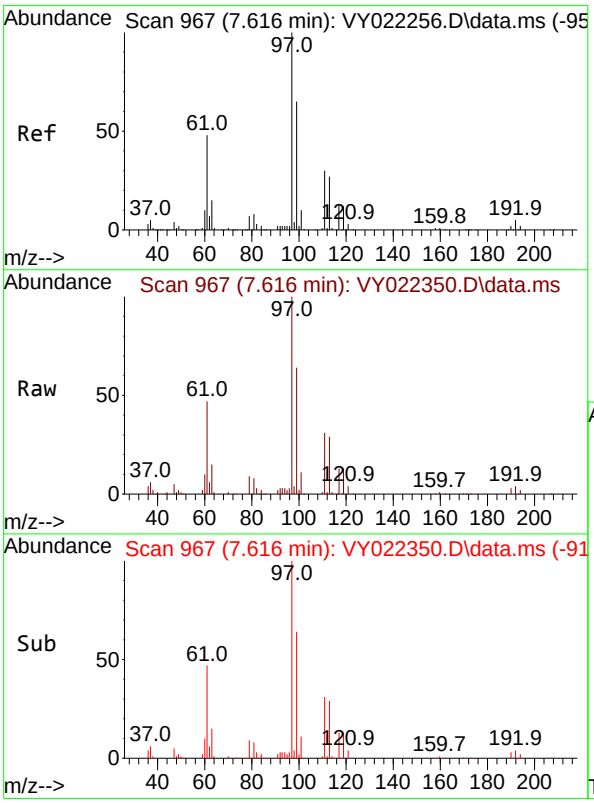
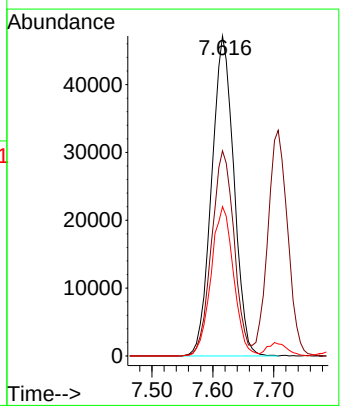
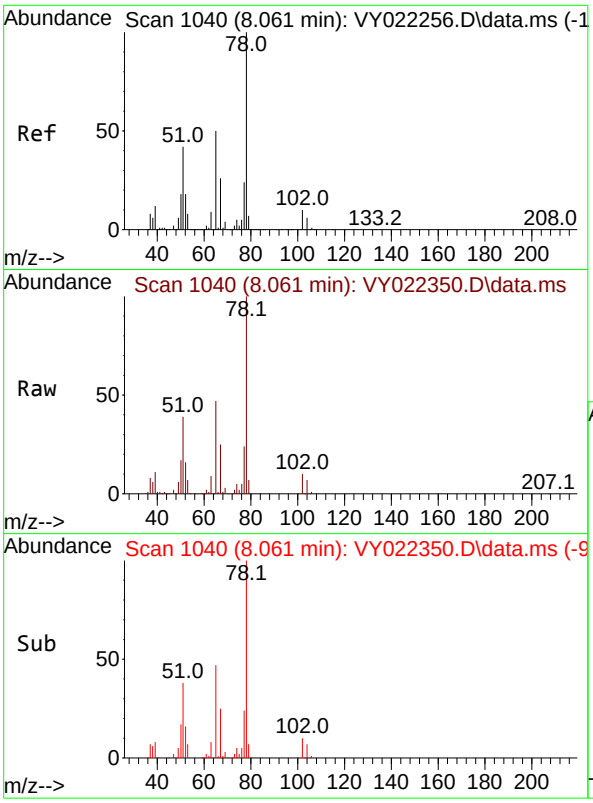



#32
1,1,1-Trichloroethane
Concen: 45.684 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 97 Resp: 119863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.0 | 51.4 | 77.0 |
| 61 | 47.2 | 38.1 | 57.1 |

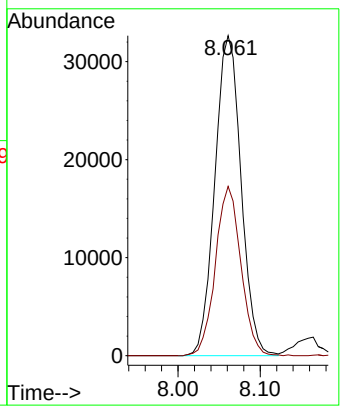





#33
1,2-Dichloroethane-d4
Concen: 49.156 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 65 Resp: 7238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.4 | 0.0 | 104.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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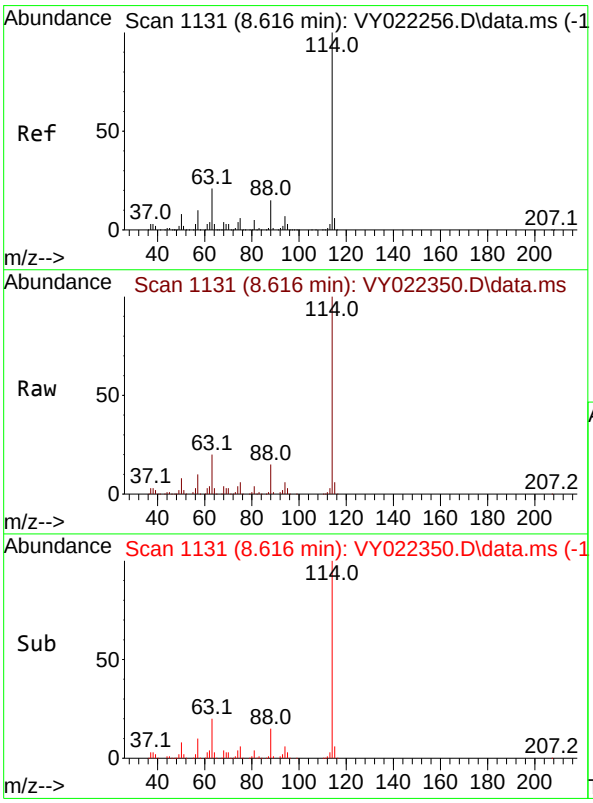
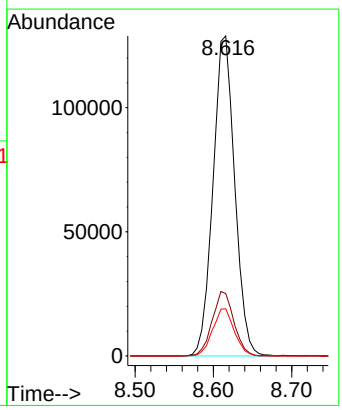
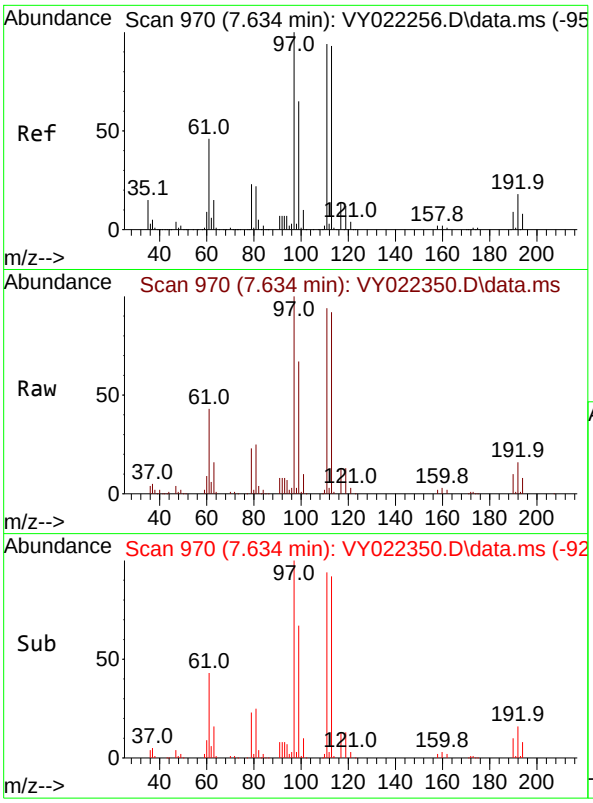



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:114 Resp: 248613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.5 | 0.0 | 41.0 |
| 88 | 14.8 | 0.0 | 29.4 |

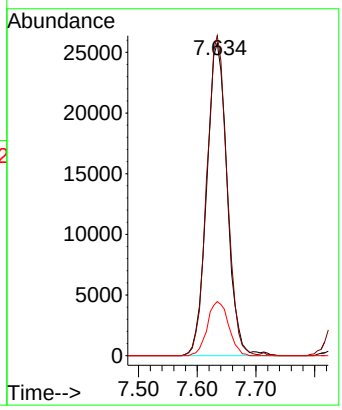





#35
Dibromofluoromethane
Concen: 42.066 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:113 Resp: 6242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.6 | 82.6 | 123.8 |
| 192 | 18.0 | 15.2 | 22.8 |




**Instrument :**
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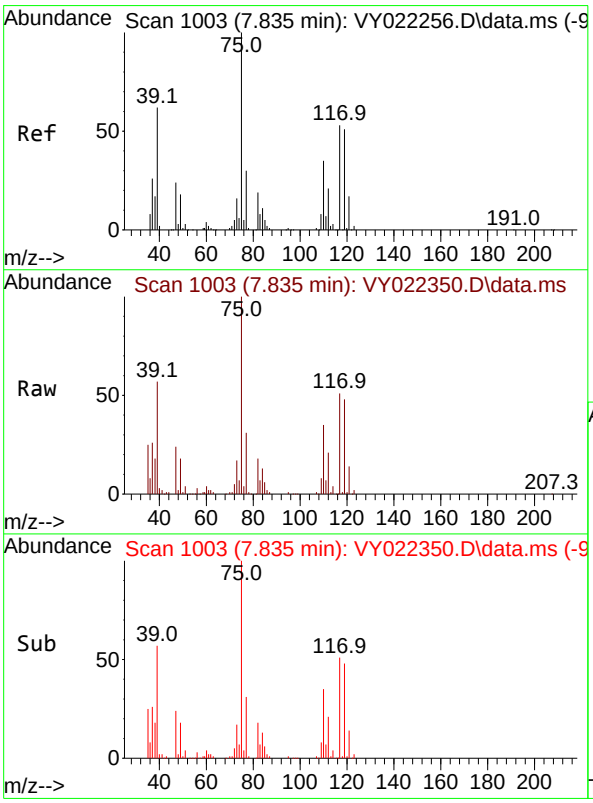
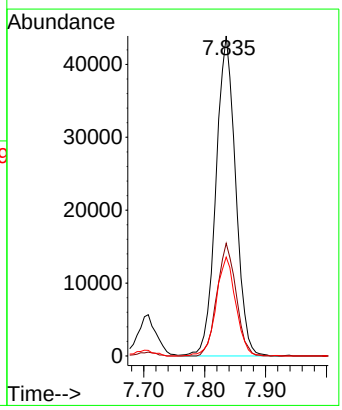
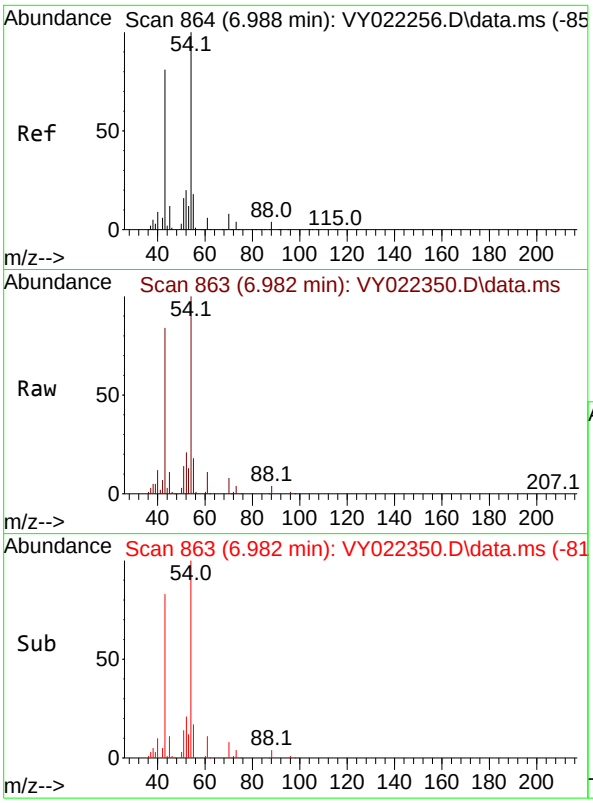



#36
1,1-Dichloropropene
Concen: 40.143 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 75 Resp: 98113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.4 | 16.6 | 49.8 |
| 77 | 30.9 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 47.780 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 43 Resp: 5618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.2 | 10.2 | 15.2 |
| 70 | 9.6 | 7.6 | 11.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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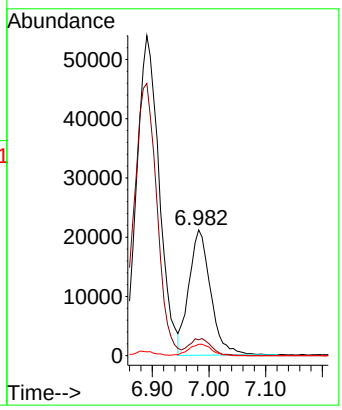
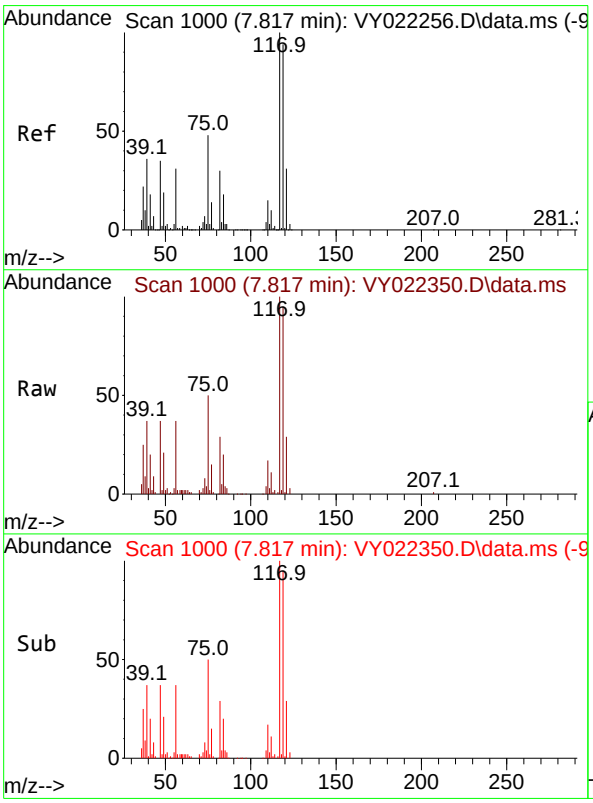
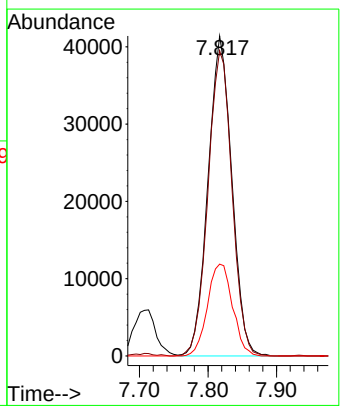


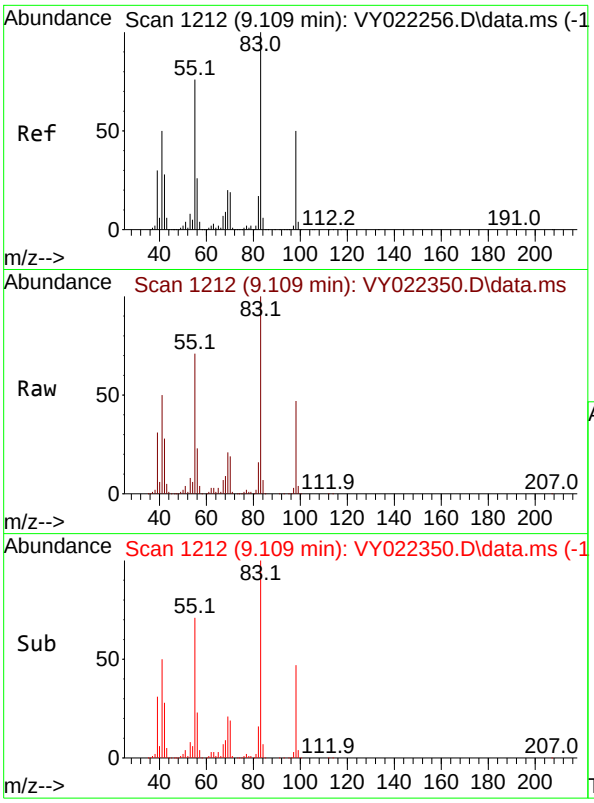




#38
Carbon Tetrachloride
Concen: 39.447 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:117 Resp: 99798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.4 | 75.3 | 112.9 |
| 121 | 28.7 | 24.7 | 37.1 |






#39
Methylcyclohexane
Concen: 42.168 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

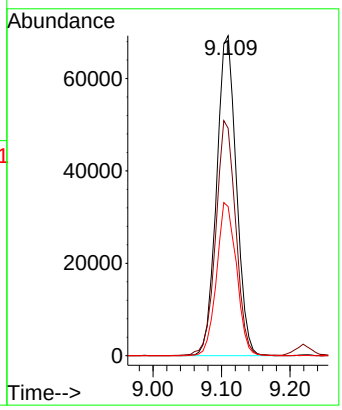
Tgt Ion: 83 Resp: 13846

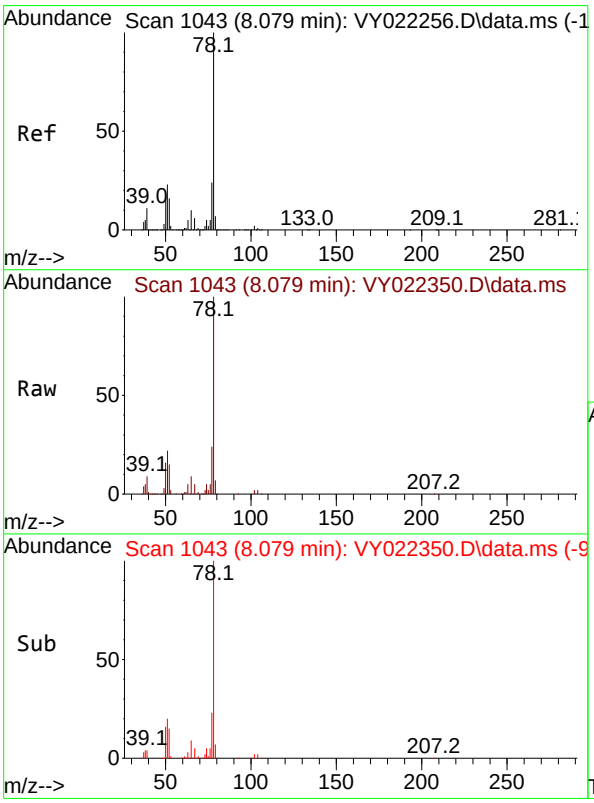
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 71.0 | 60.6 | 90.8 |
| 98 | 46.6 | 40.0 | 60.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

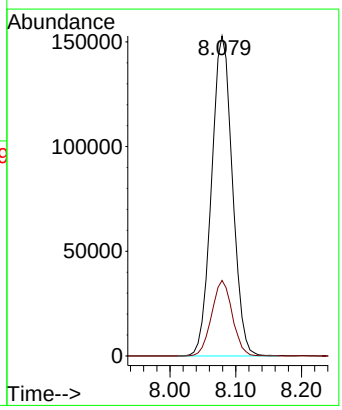


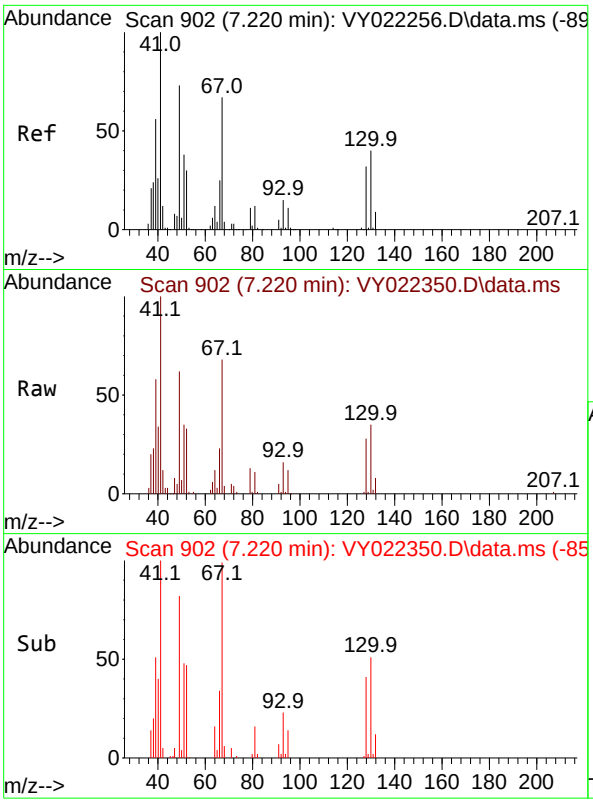




#40
Benzene
Concen: 46.557 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 78 Resp: 337331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.6 | 18.9 | 28.3 |

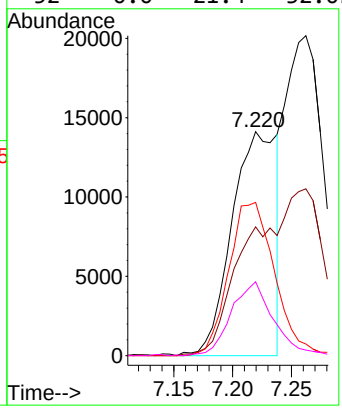





#41
Methacrylonitrile
Concen: 48.065 ug/l m
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 41 Resp: 3749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.4 | 39.1 | 58.7# |
| 67 | 0.0 | 47.1 | 70.7# |
| 52 | 0.0 | 21.4 | 32.0# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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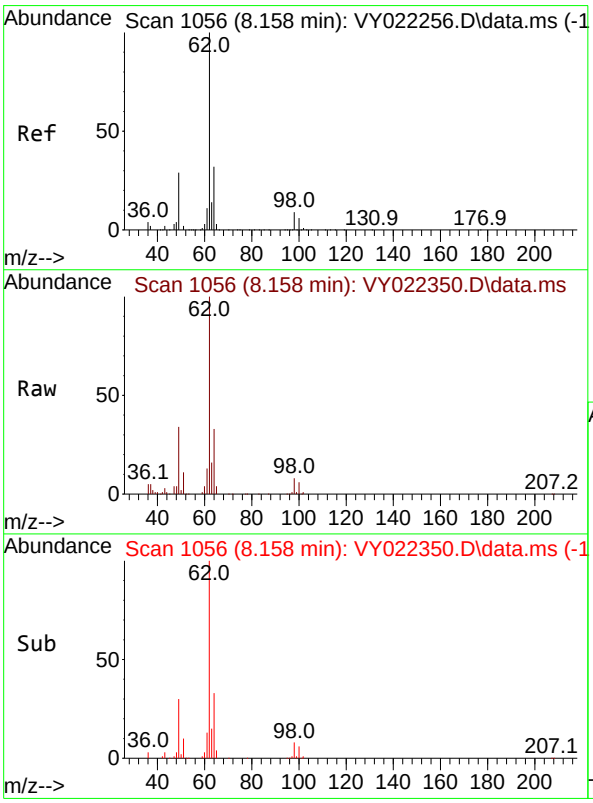
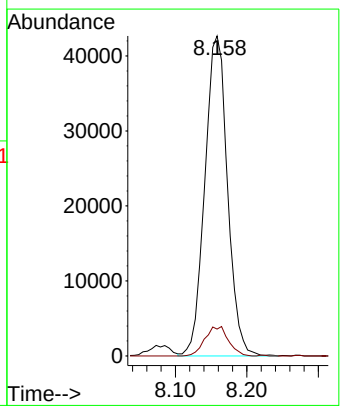
Supervised By :Semsettin Yesilyurt 05/21/2025

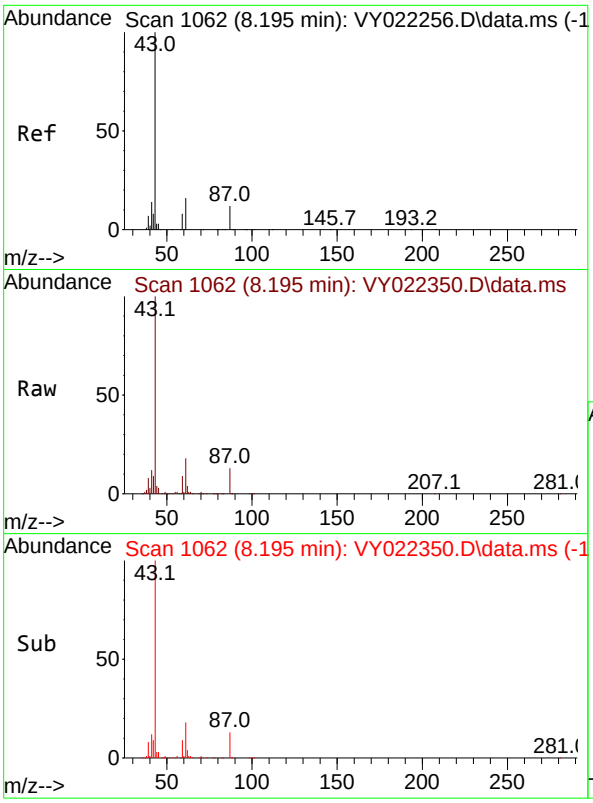



#42
1,2-Dichloroethane
Concen: 47.921 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 62 Resp: 93895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.5 | 0.0 | 18.4 |

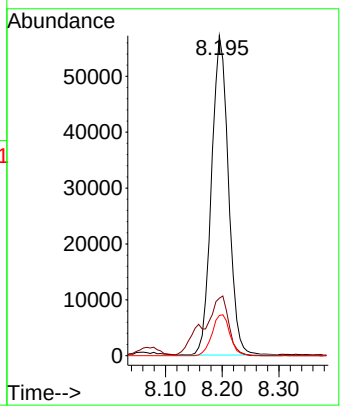





#43
Isopropyl Acetate
Concen: 46.301 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 43 Resp: 11874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 19.1 | 15.1 | 22.7 |
| 87 | 13.5 | 9.7 | 14.5 |




**Instrument :**
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**ClientSampleId :**
SS-11MS

**Manual Integrations**
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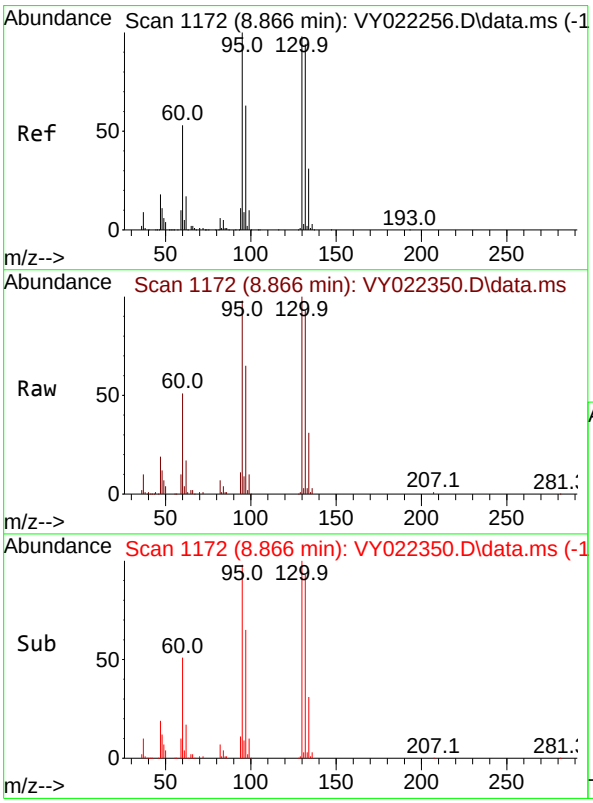
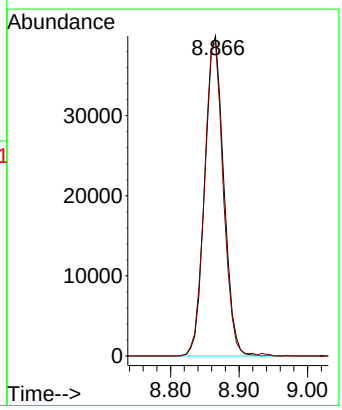
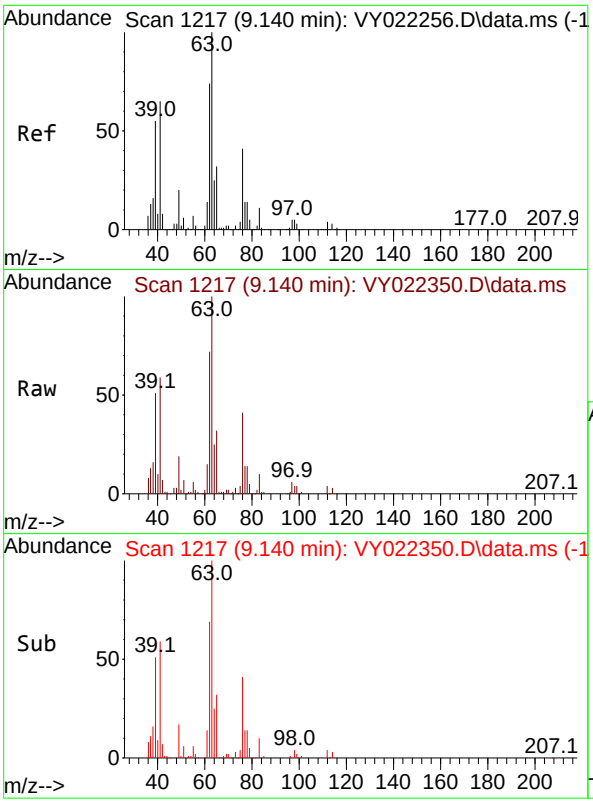



#44
Trichloroethene
Concen: 42.611 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:130 Resp: 76767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 97.9 | 0.0 | 204.8 |






#45
1,2-Dichloropropane
Concen: 44.259 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 63 Resp: 7731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.3 | 25.7 | 38.5 |

**Instrument :**
MSVOA_Y
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SS-11MS

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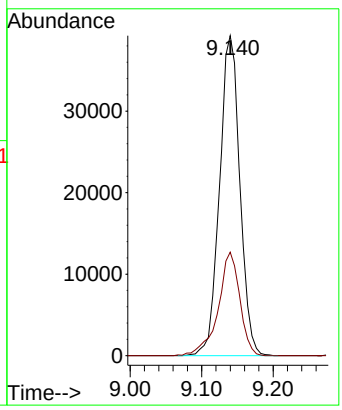
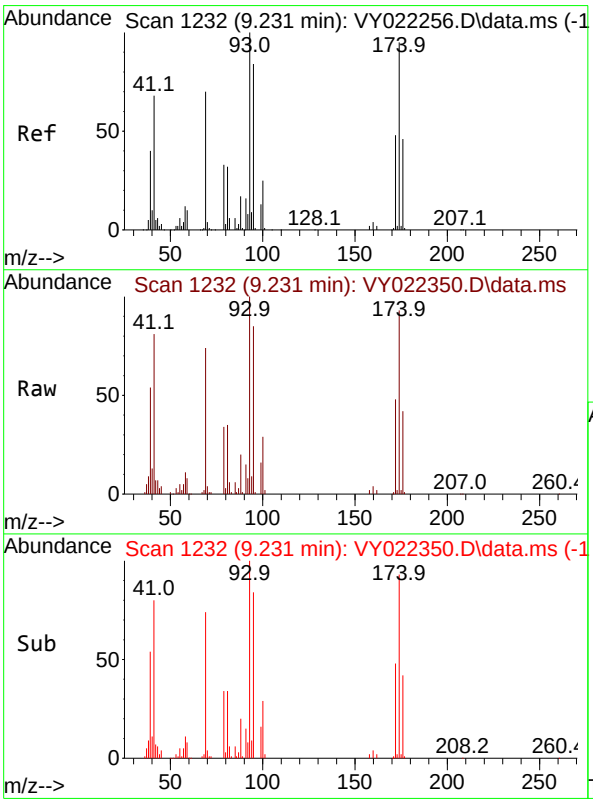
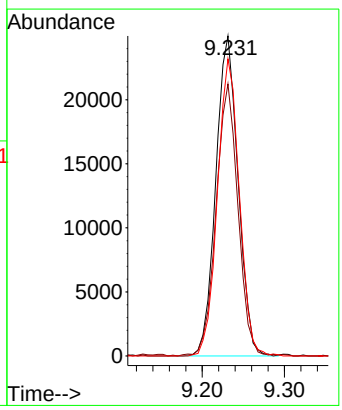


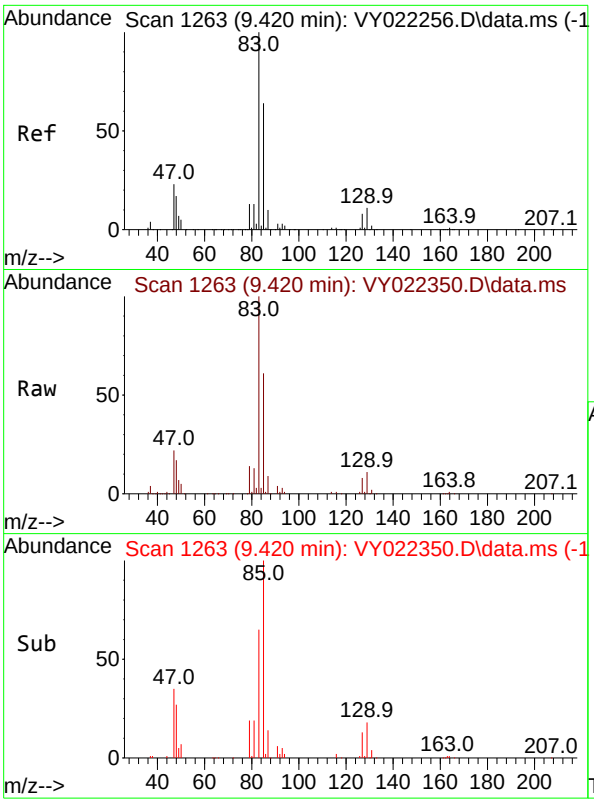




#46
Dibromomethane
Concen: 49.983 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 93 Resp: 47093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.2 | 65.2 | 97.8 |
| 174 | 90.9 | 74.3 | 111.5 |

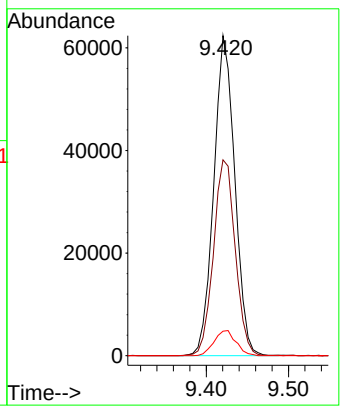





#47
Bromodichloromethane
Concen: 45.333 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 83 Resp: 11080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.2 | 51.1 | 76.7 |
| 127 | 7.6 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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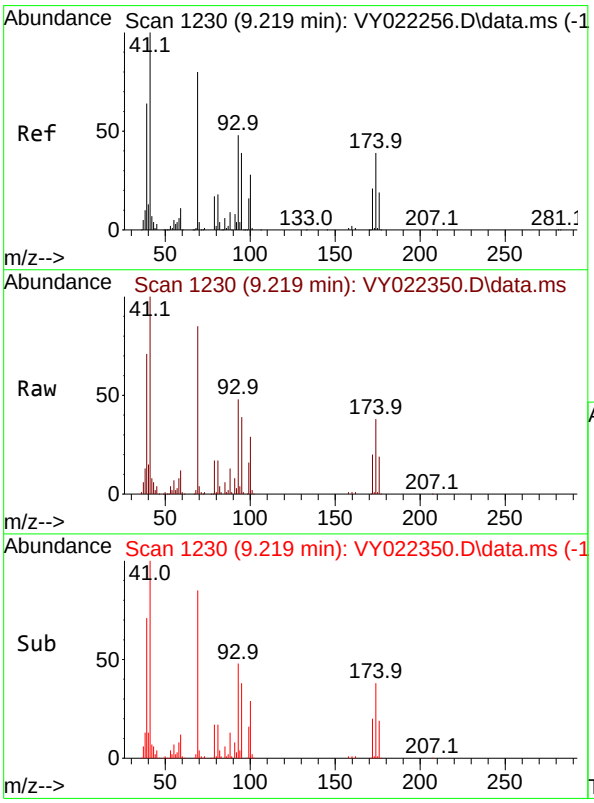
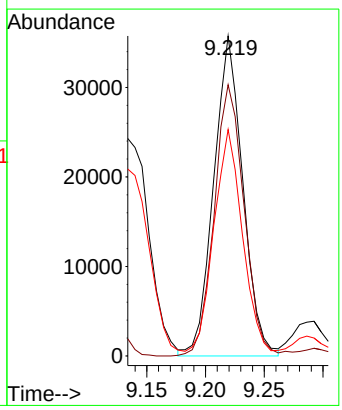
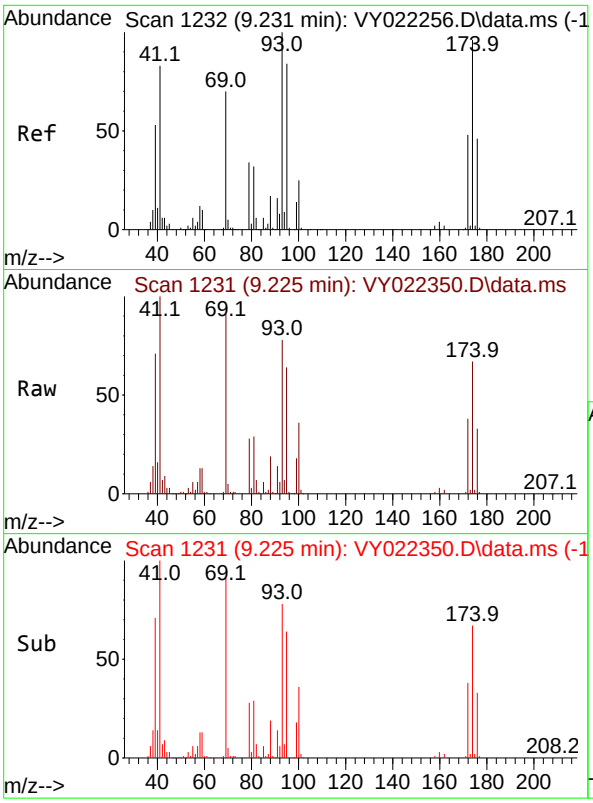



#48
Methyl methacrylate
Concen: 51.439 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 41 Resp: 61695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 87.1 | 63.5 | 95.3 |
| 39 | 67.5 | 50.8 | 76.2 |

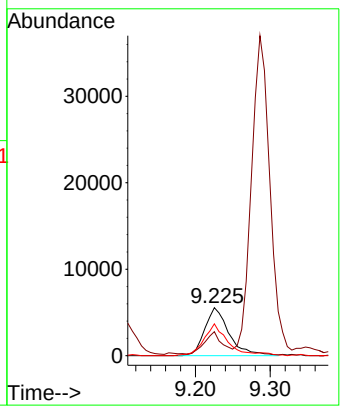





#49
1,4-Dioxane
Concen: 1182.288 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 88 Resp: 1258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.1 | 28.5 | 42.7 |
| 58 | 62.2 | 61.4 | 92.2 |




**Instrument :**
MSVOA_Y
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SS-11MS

**Manual Integrations**
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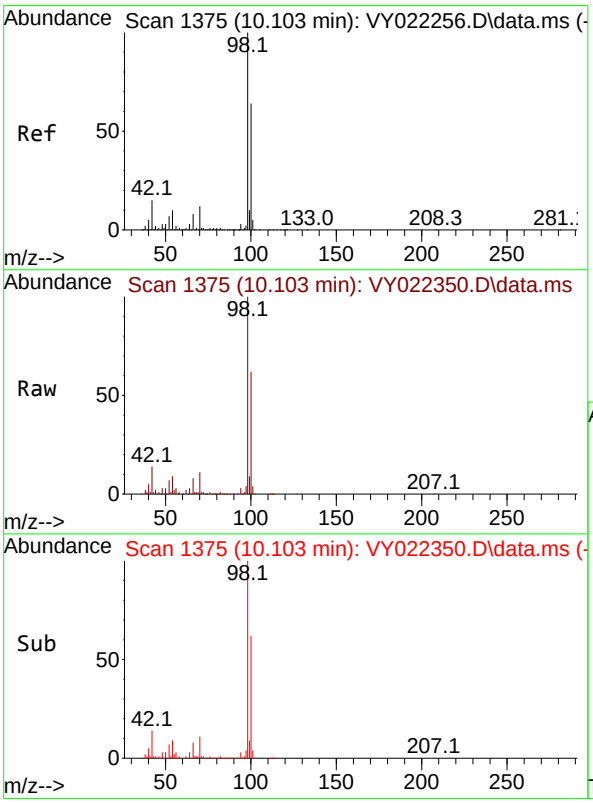
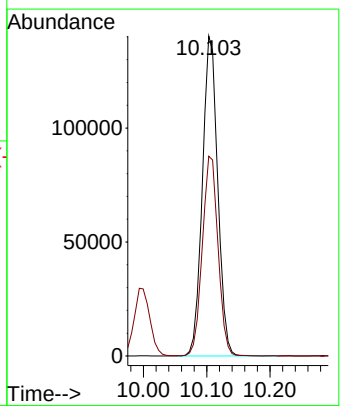
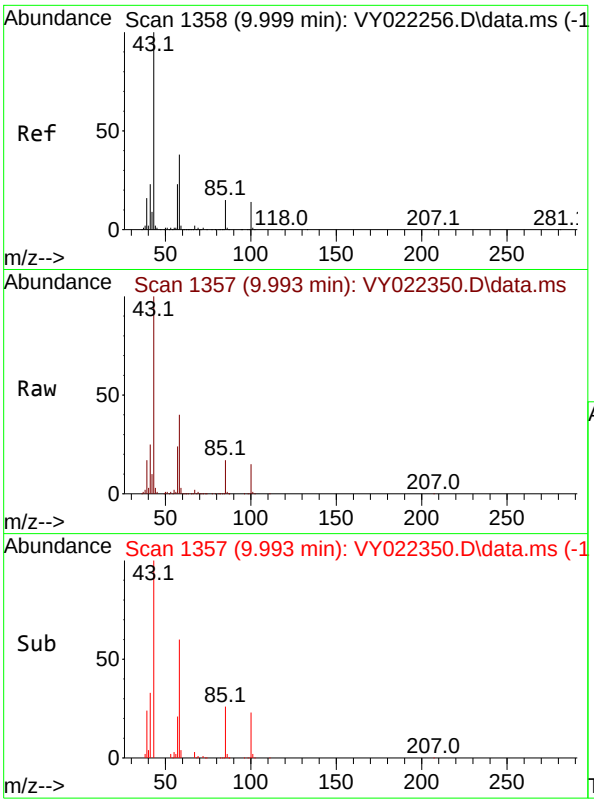



#50
Toluene-d8
Concen: 39.032 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 98 Resp: 237206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.9 | 51.8 | 77.8 |

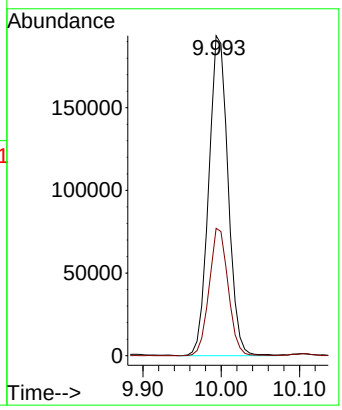





#51
4-Methyl-2-Pentanone
Concen: 263.537 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 43 Resp: 33163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.1 | 29.4 | 44.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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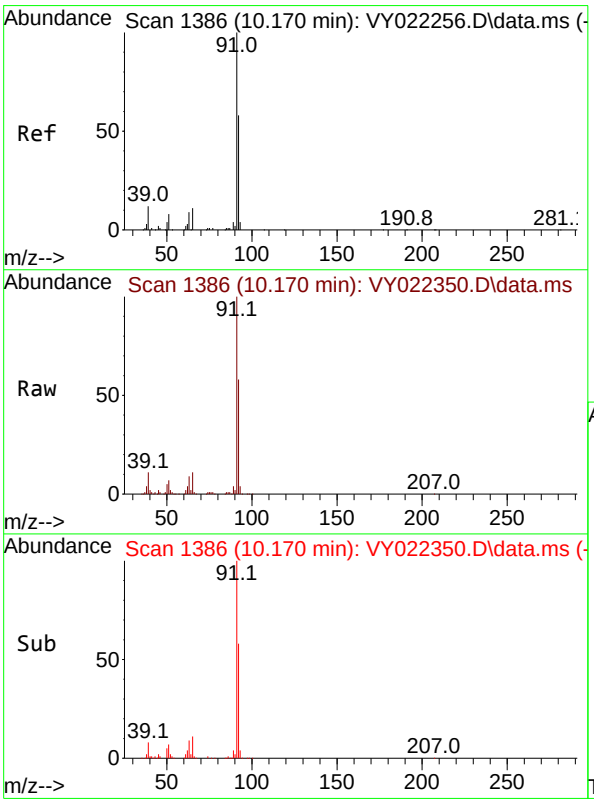
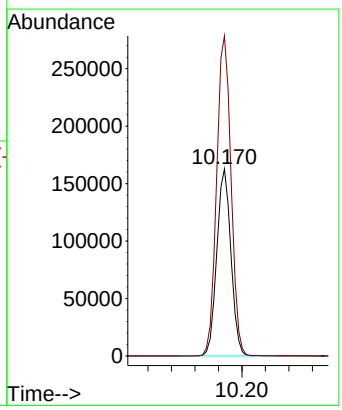
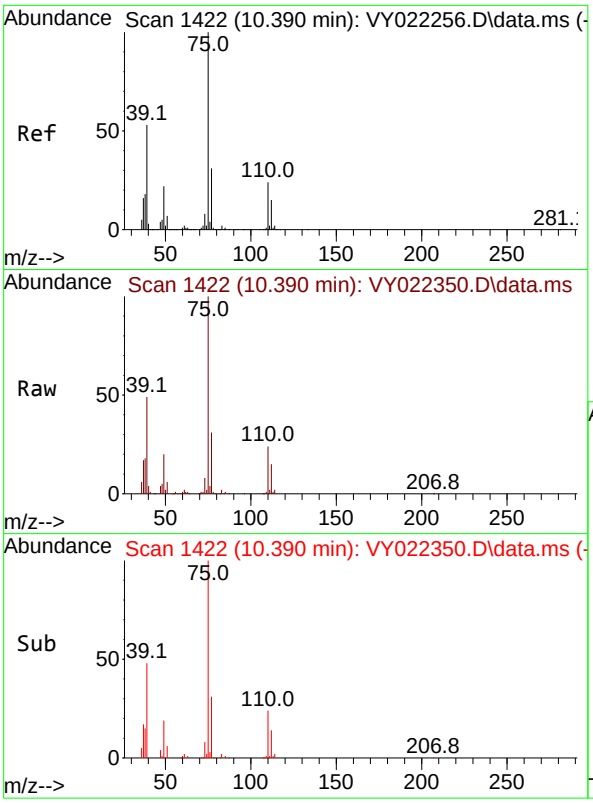



#52
Toluene
Concen: 59.047 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 92 Resp: 270916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.6 | 139.1 | 208.7 |

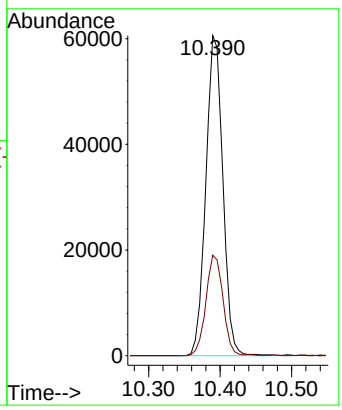





#53
t-1,3-Dichloropropene
Concen: 41.978 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 75 Resp: 10013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

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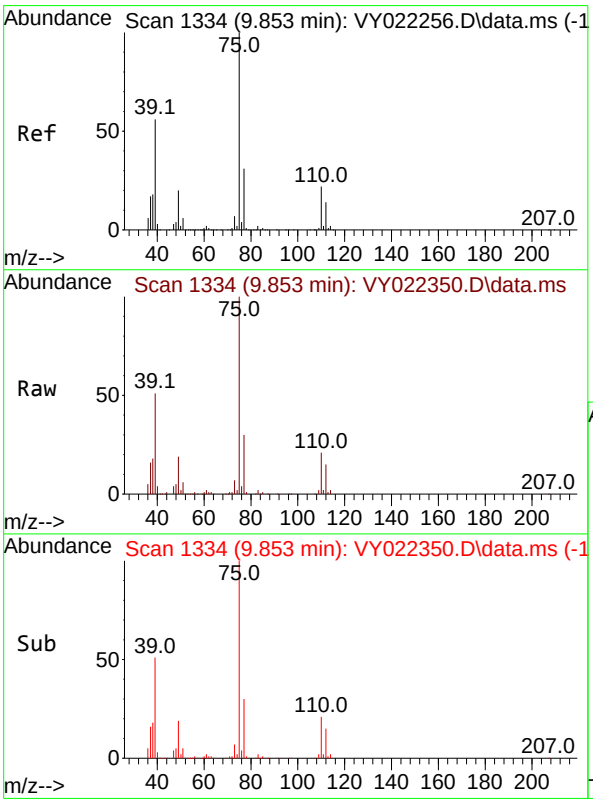
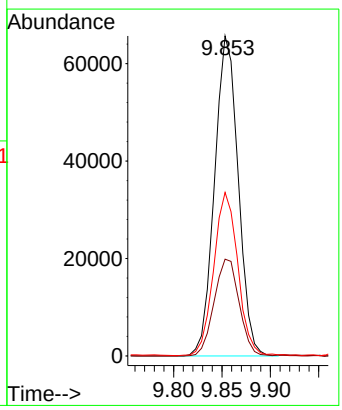
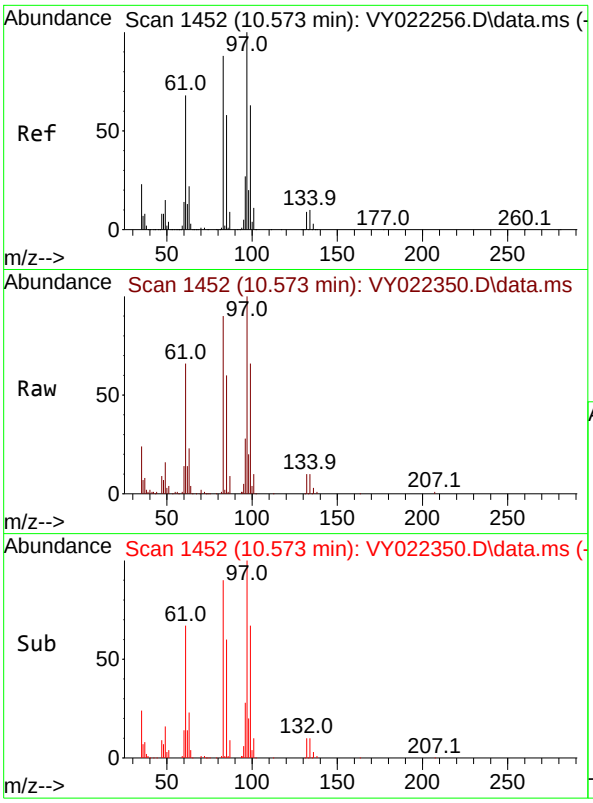



#54
cis-1,3-Dichloropropene
Concen: 40.765 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 75 Resp: 111408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.2 | 25.1 | 37.7 |
| 39 | 51.0 | 44.5 | 66.7 |

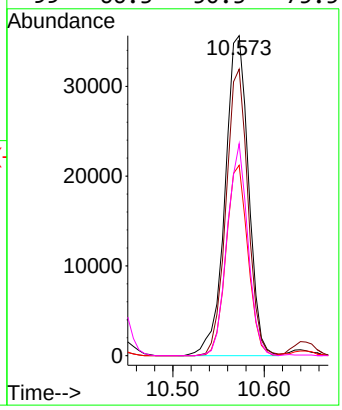





#55
1,1,2-Trichloroethane
Concen: 52.591 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 97 Resp: 6345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.5 | 70.3 | 105.5 |
| 85 | 59.5 | 46.2 | 69.4 |
| 99 | 66.3 | 50.3 | 75.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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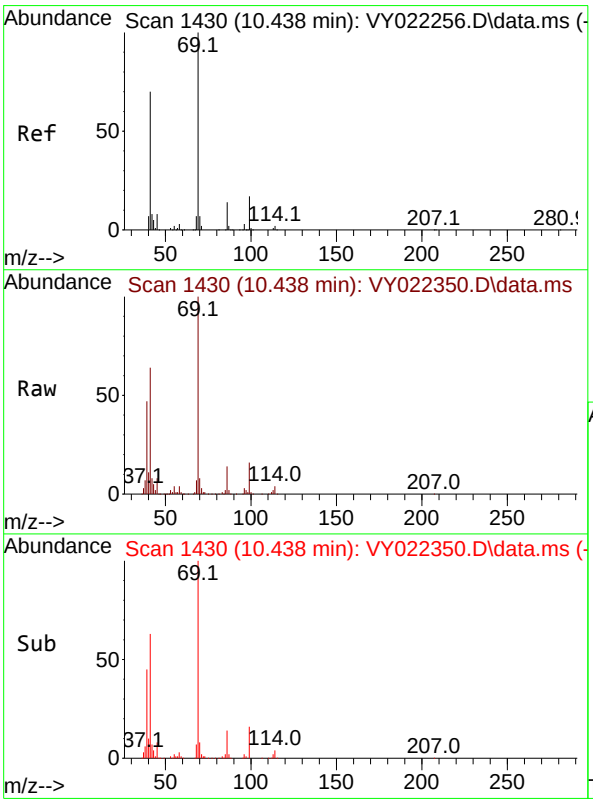
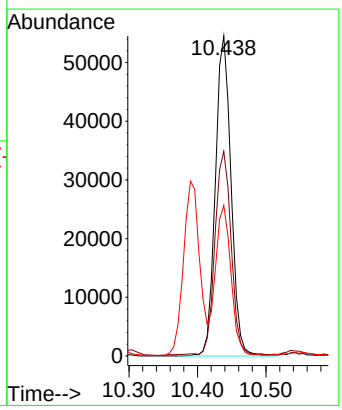
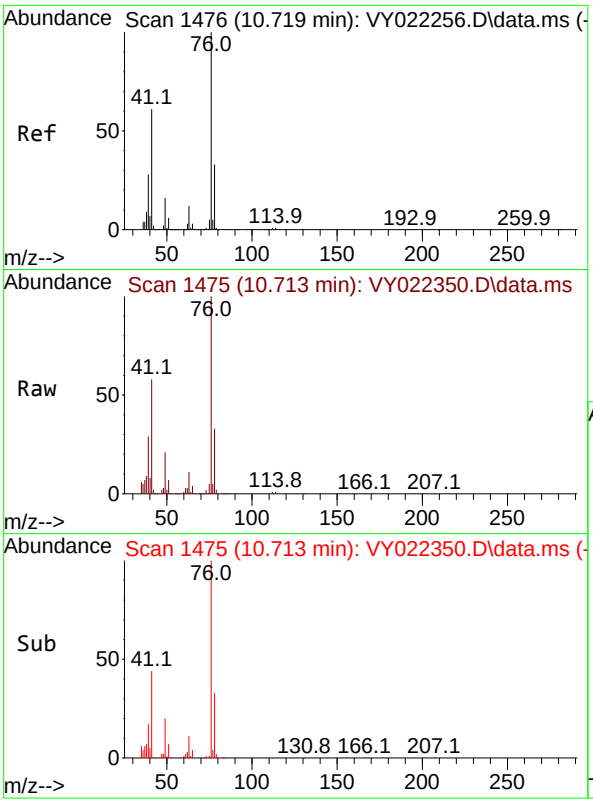



#56
Ethyl methacrylate
Concen: 46.116 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 69 Resp: 86668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.5 | 56.5 | 84.7 |
| 39 | 46.7 | 37.1 | 55.7 |






#57
1,3-Dichloropropane
Concen: 49.466 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

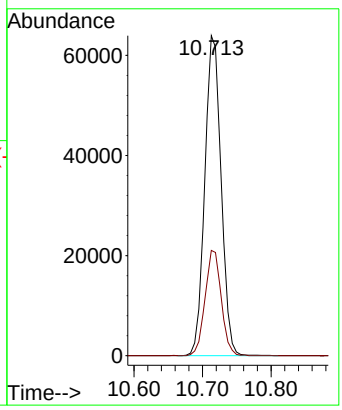
Tgt Ion: 76 Resp: 10603

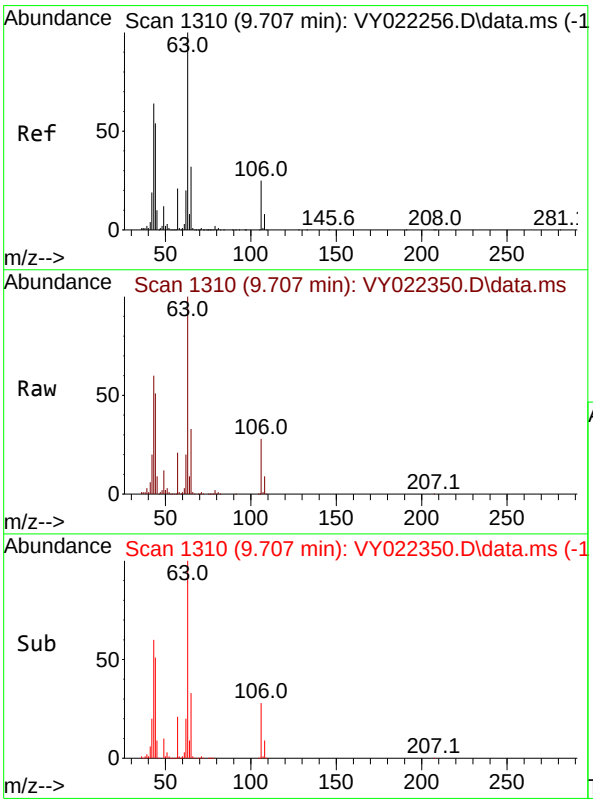
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

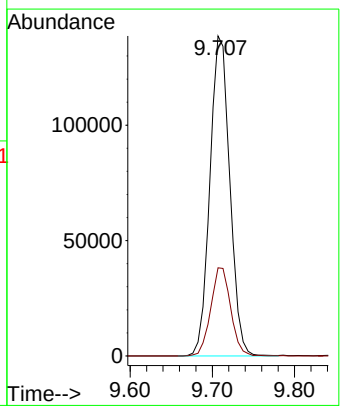


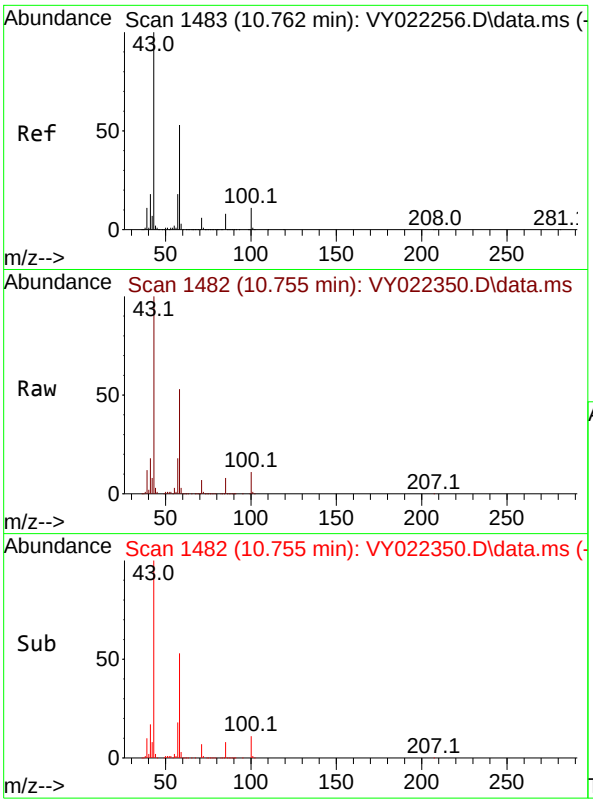




#58
2-Chloroethyl Vinyl ether
Concen: 276.682 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 63 Resp: 233392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.7 | 21.0 | 31.4 |






#59
2-Hexanone
Concen: 272.212 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 43 Resp: 22967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 53.9 | 26.1 | 78.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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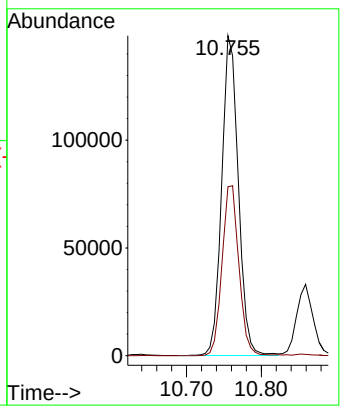
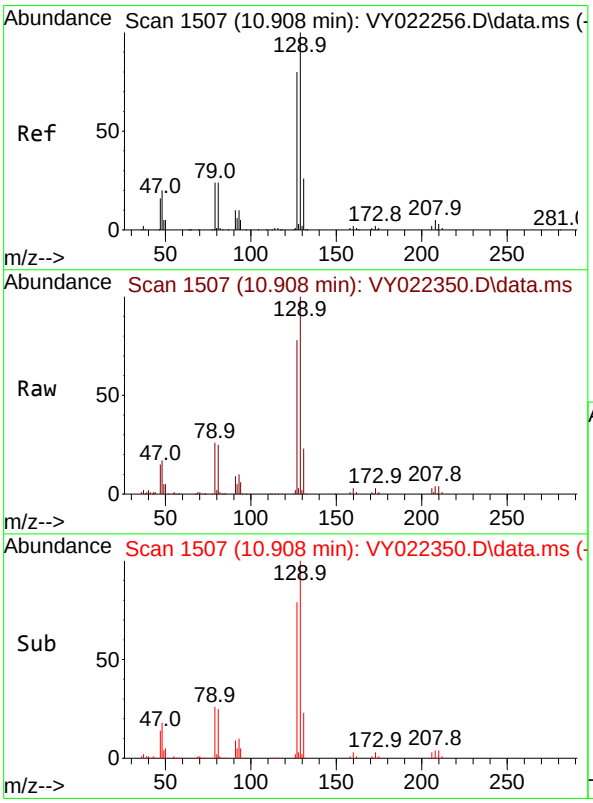
Supervised By :Semsettin Yesilyurt 05/21/2025

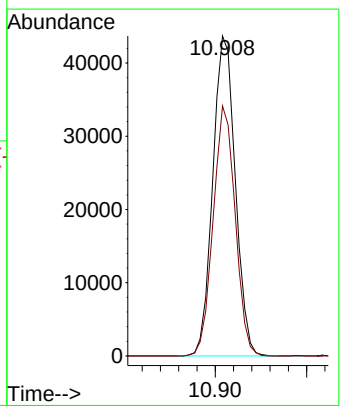


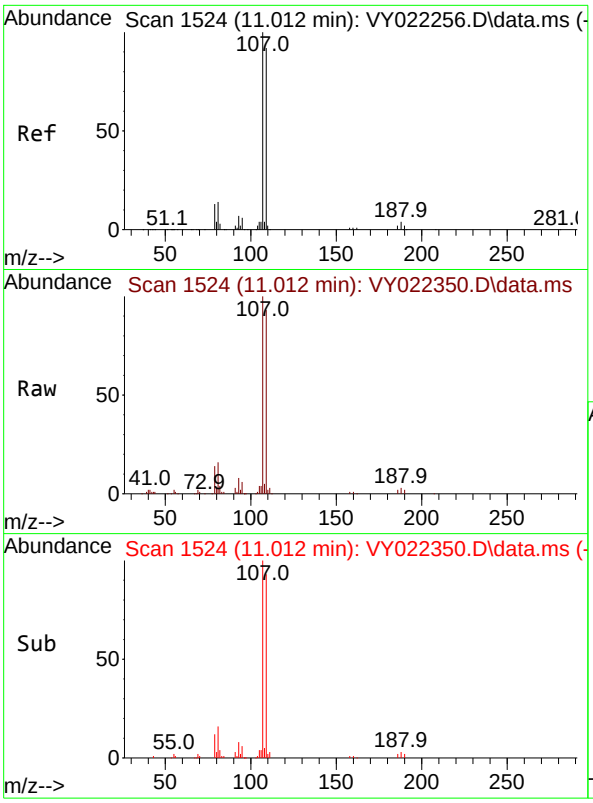




#60
Dibromochloromethane
Concen: 47.686 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:129 Resp: 74674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.5 | 38.6 | 115.7 |






#61
1,2-Dibromoethane
Concen: 51.569 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:107 Resp: 5798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.9 | 74.6 | 111.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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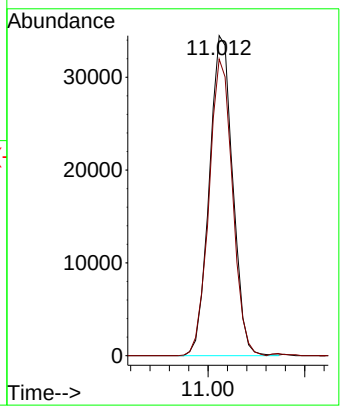
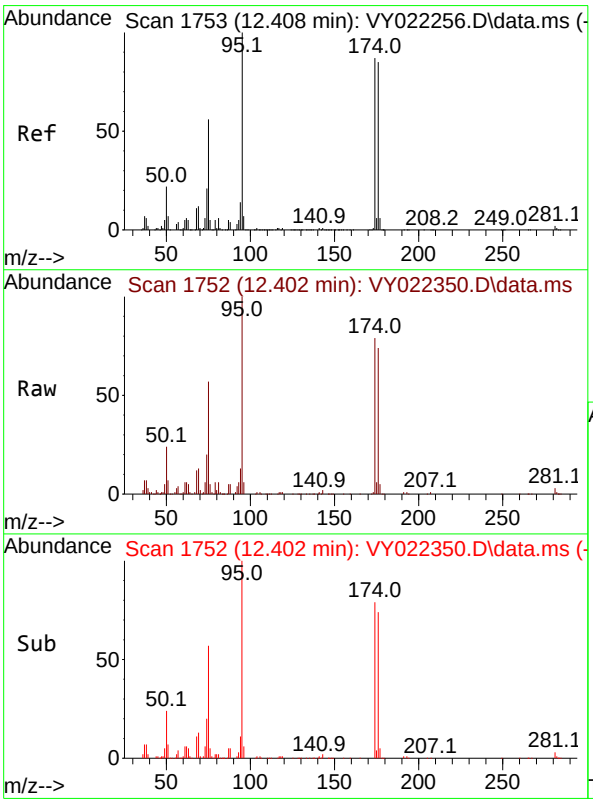
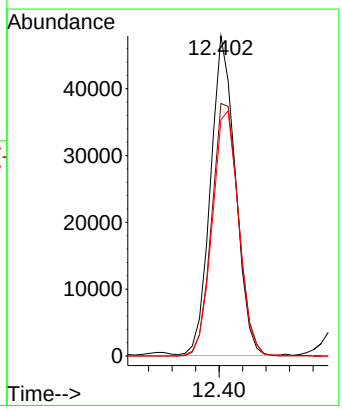


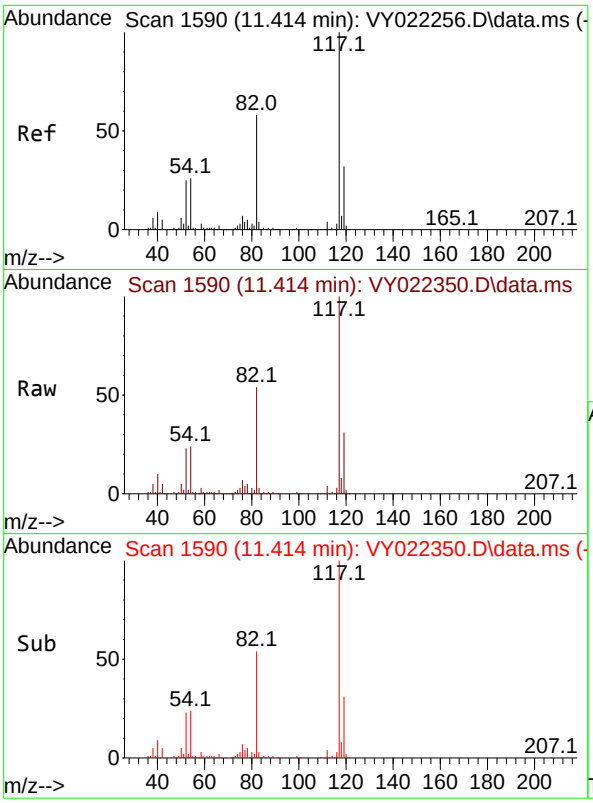




#62
4-Bromofluorobenzene
Concen: 36.488 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 95 Resp: 70287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.8 | 0.0 | 166.8 |
| 176 | 81.8 | 0.0 | 160.8 |

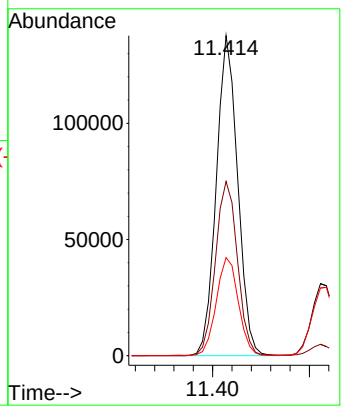





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:117 Resp: 21093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.3 | 46.6 | 70.0 |
| 119 | 30.7 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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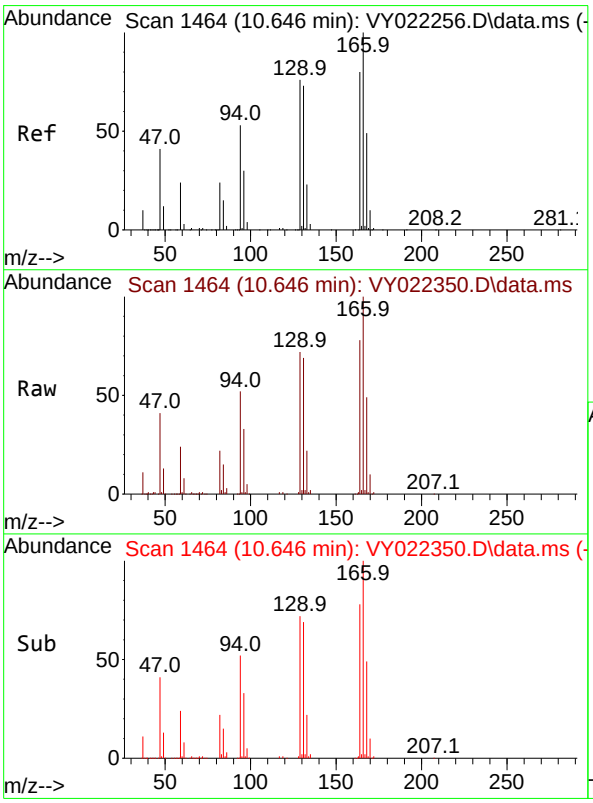
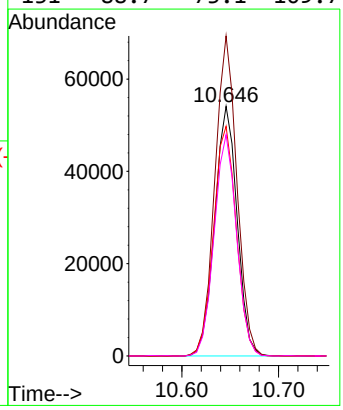
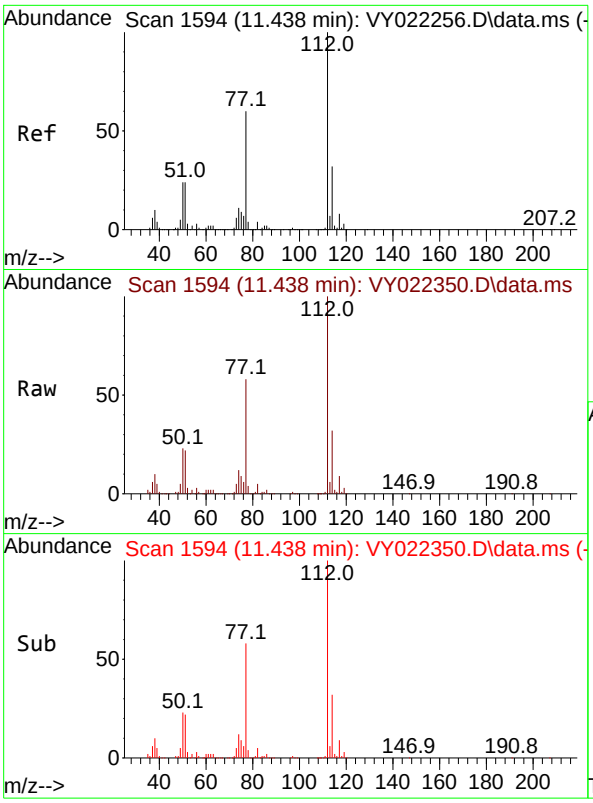



#64
Tetrachloroethene
Concen: 44.540 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:164 Resp: 86840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.2 | 100.4 | 150.6 |
| 129 | 92.0 | 76.4 | 114.6 |
| 131 | 88.7 | 73.1 | 109.7 |

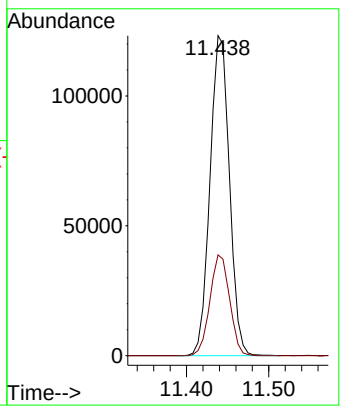





#65
Chlorobenzene
Concen: 42.467 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:112 Resp: 20210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.5 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
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SS-11MS

**Manual Integrations**
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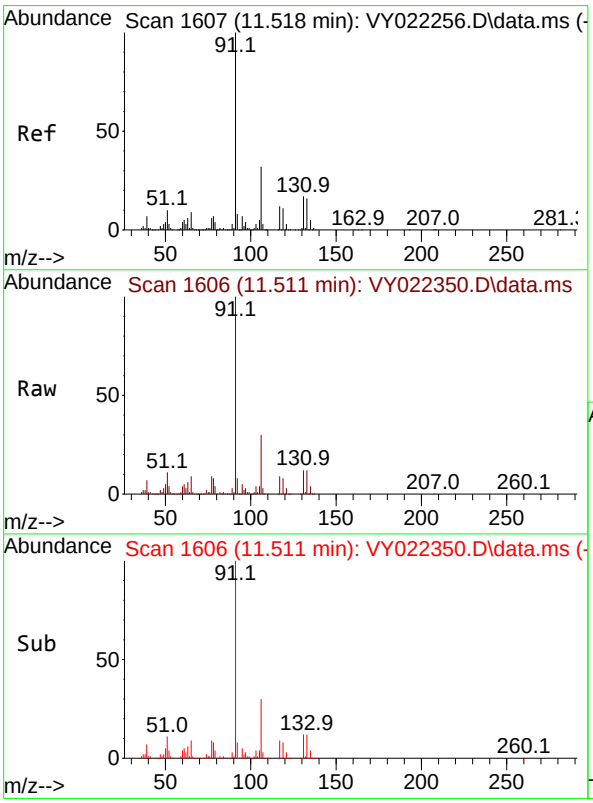
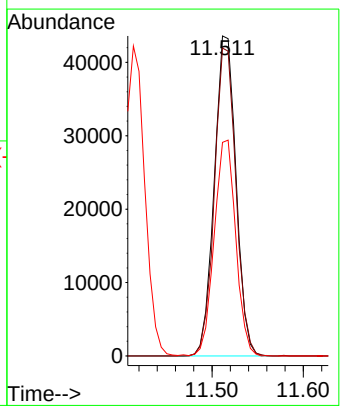
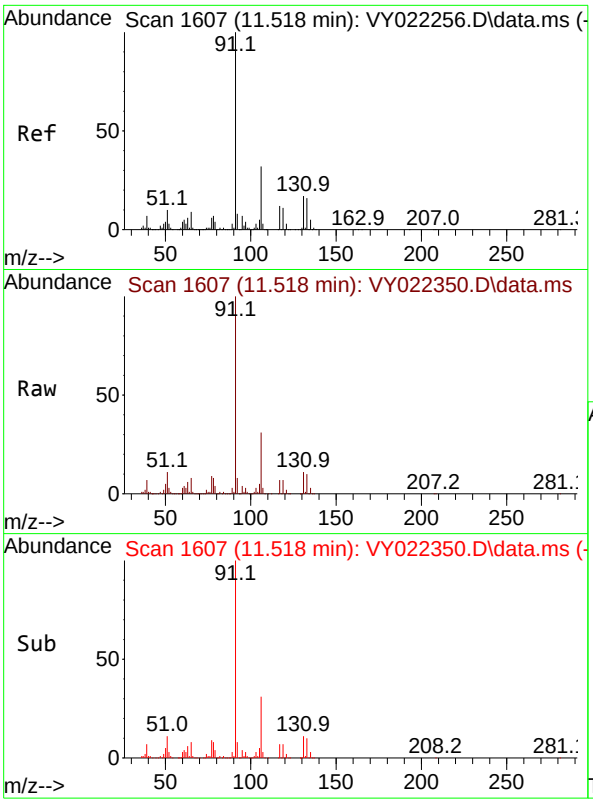



#66
1,1,1,2-Tetrachloroethane
Concen: 44.010 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:131 Resp: 72002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.4 | 47.3 | 141.9 |
| 119 | 67.1 | 33.1 | 99.2 |

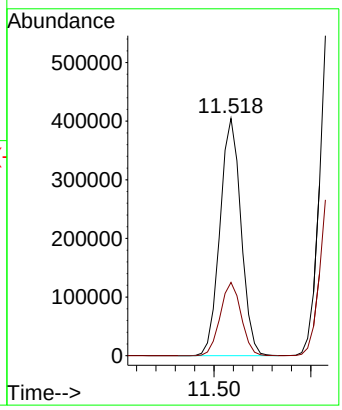





#67
Ethyl Benzene
Concen: 68.483 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 91 Resp: 61036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.8 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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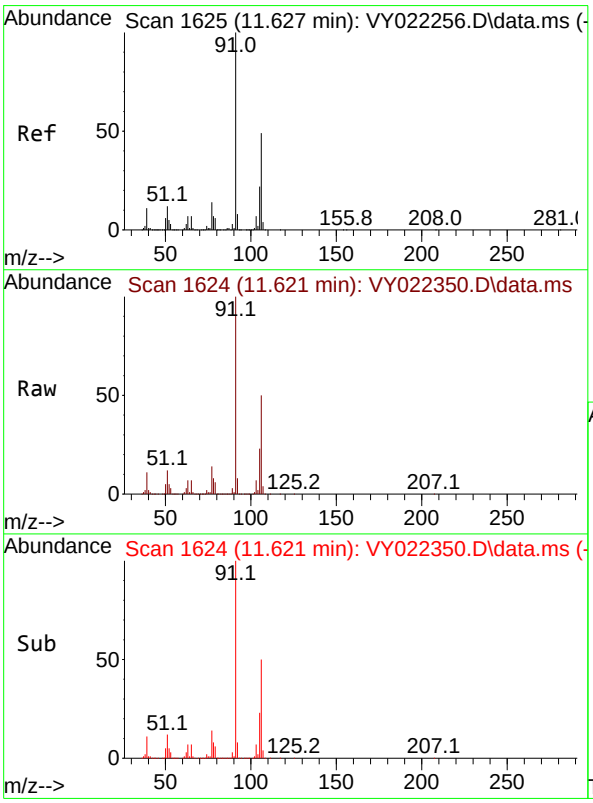
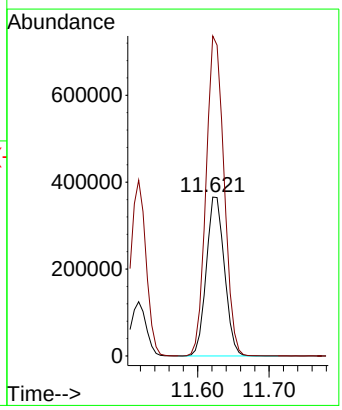
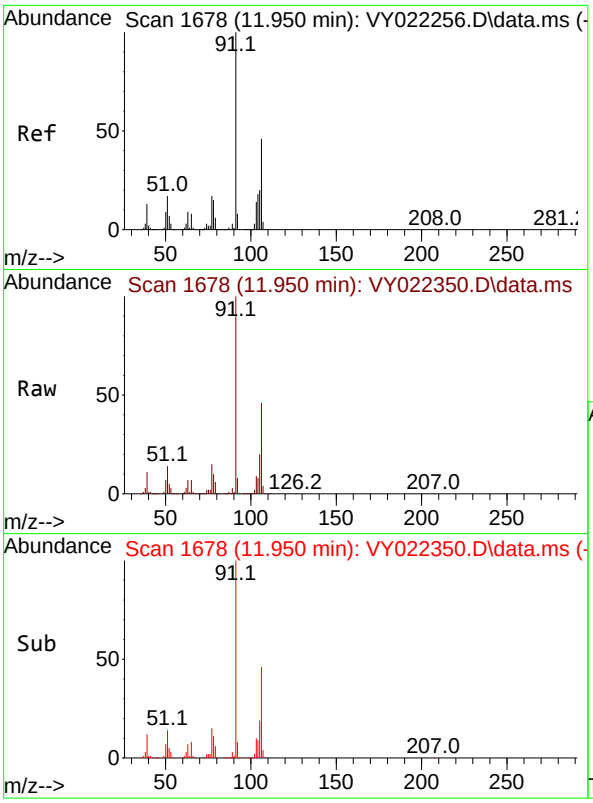



#68
m/p-Xylenes
Concen: 191.856 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:106 Resp: 644327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 199.6 | 163.0 | 244.4 |

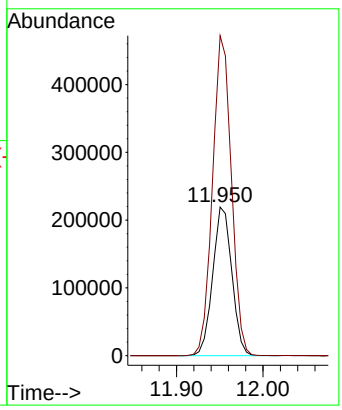





#69
o-Xylene
Concen: 105.852 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:106 Resp: 33633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 212.5 | 108.3 | 324.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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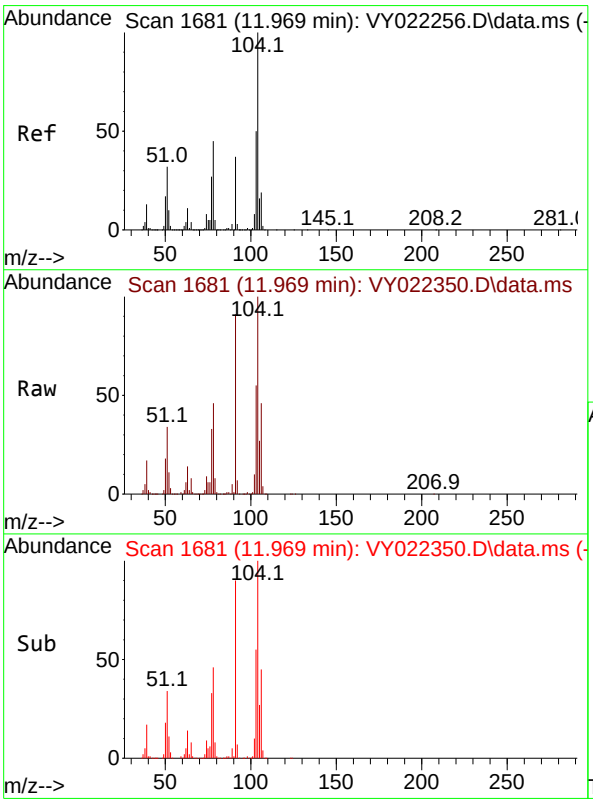
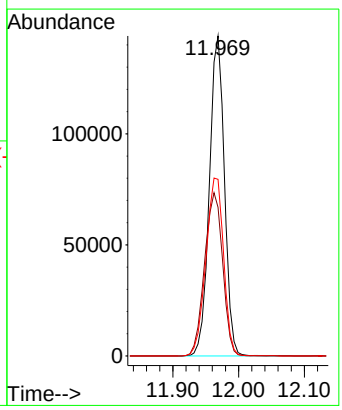
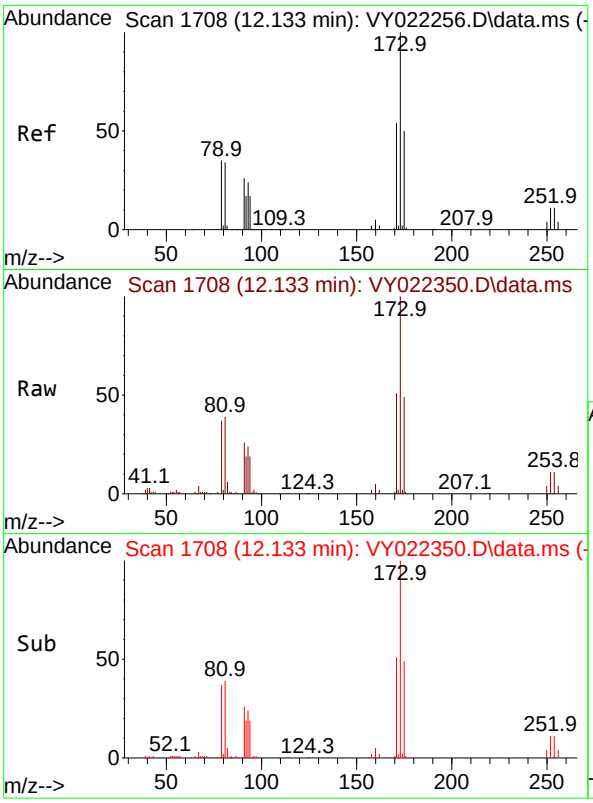



#70
Styrene
Concen: 42.862 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:104 Resp: 229737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 61.2 | 40.9 | 61.3 |
| 103 | 65.3 | 43.7 | 65.5 |

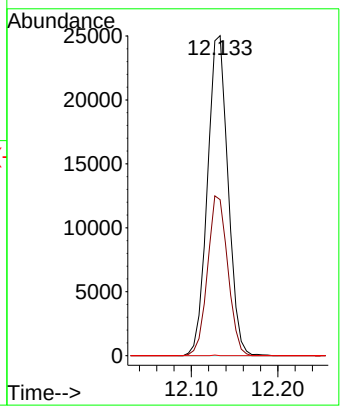





#71
Bromoform
Concen: 46.614 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:173 Resp: 4116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.2 | 24.7 | 74.1 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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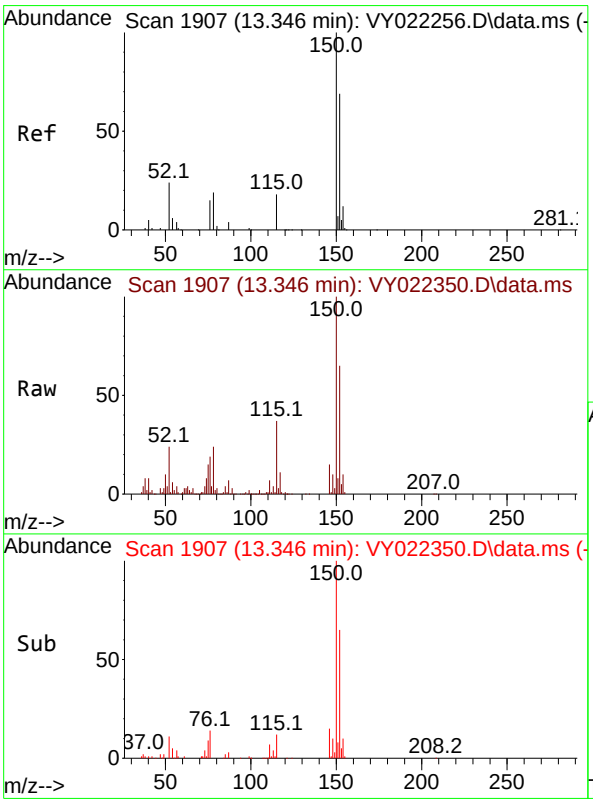
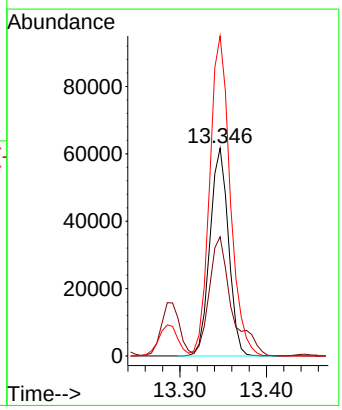
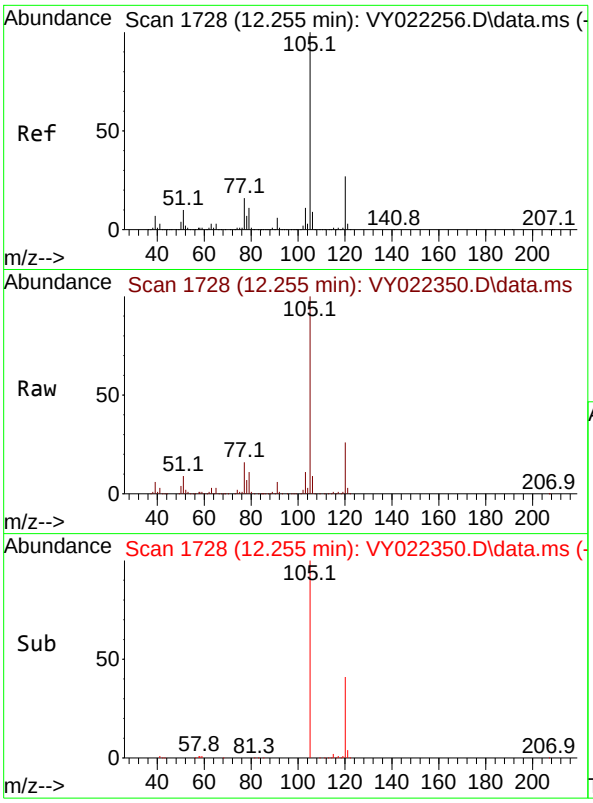



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:152 Resp: 91777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 69.6 | 29.4 | 88.2 |
| 150 | 170.1 | 0.0 | 353.8 |

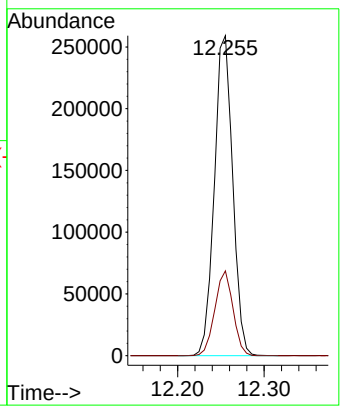





#73
Isopropylbenzene
Concen: 50.067 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:105 Resp: 38067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.2 | 13.2 | 39.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
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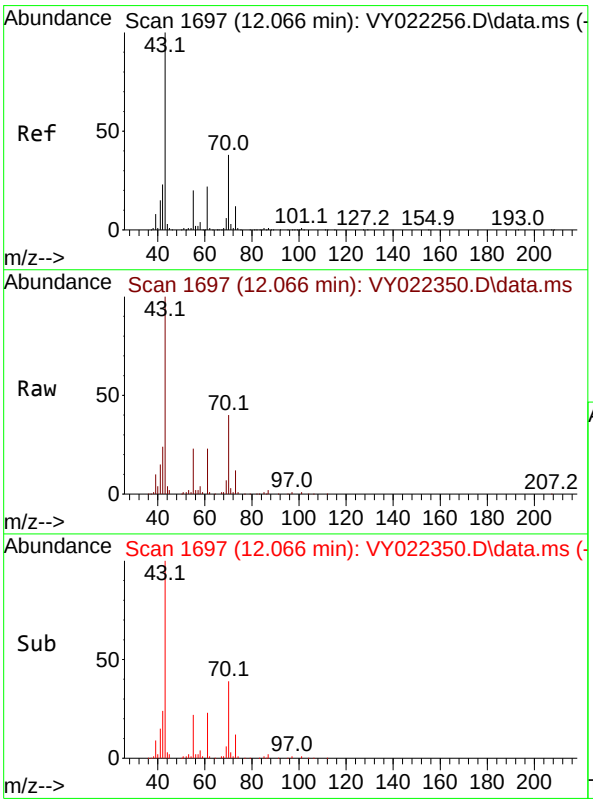
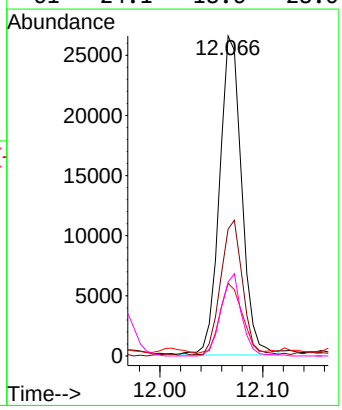
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

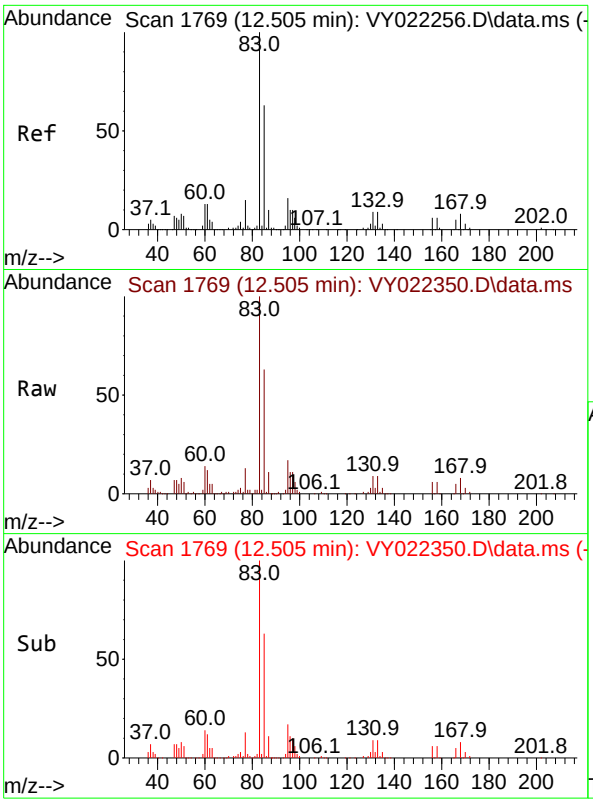



#74
N-amyl acetate
Concen: 18.293 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 43 Resp: 39779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 41.9 | 31.4 | 47.0 |
| 55 | 22.3 | 17.0 | 25.6 |
| 61 | 24.1 | 18.6 | 28.0 |

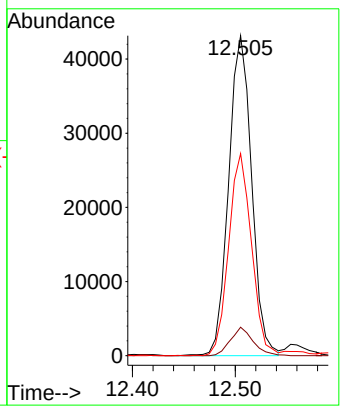





#75
1,1,2,2-Tetrachloroethane
Concen: 57.399 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 83 Resp: 6711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 8.8 | 4.9 | 14.7 |
| 85 | 63.3 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

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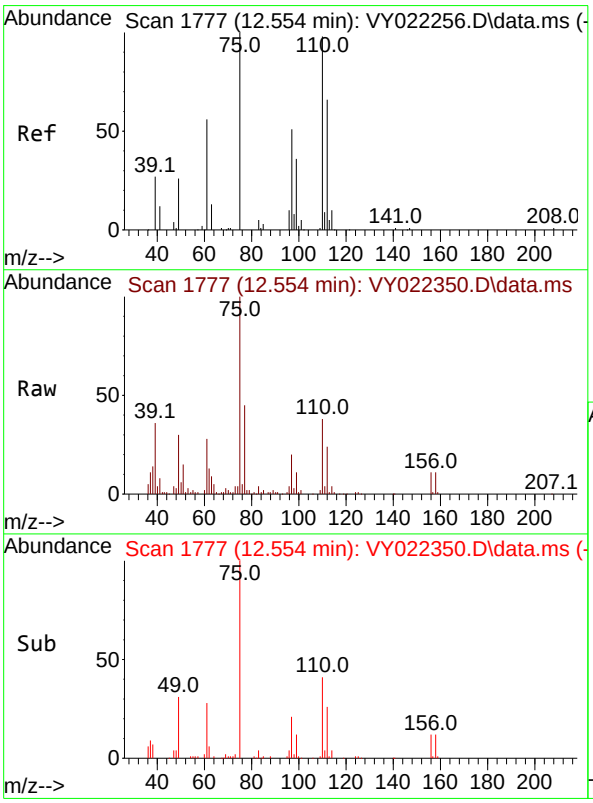
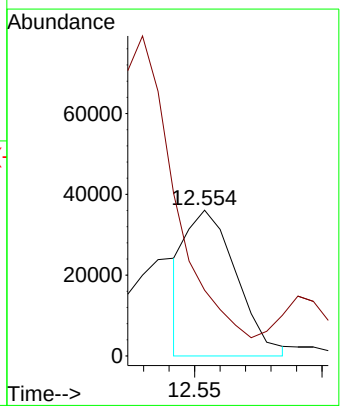
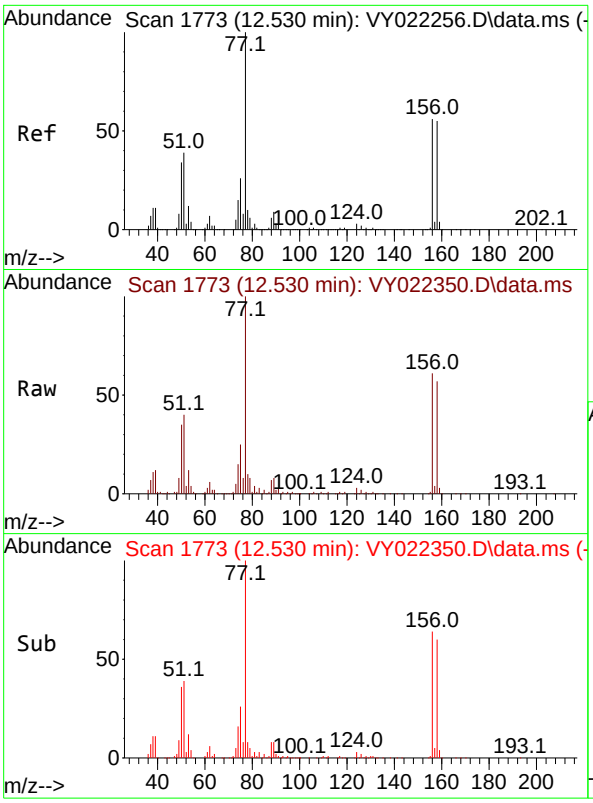



#76
1,2,3-Trichloropropane
Concen: 53.471 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 75 Resp: 49717

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

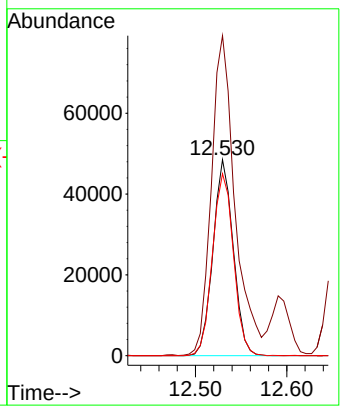





#77
Bromobenzene
Concen: 46.031 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:156 Resp: 7475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 189.2 | 94.5 | 283.6 |
| 158 | 96.4 | 48.4 | 145.3 |




**Instrument :**
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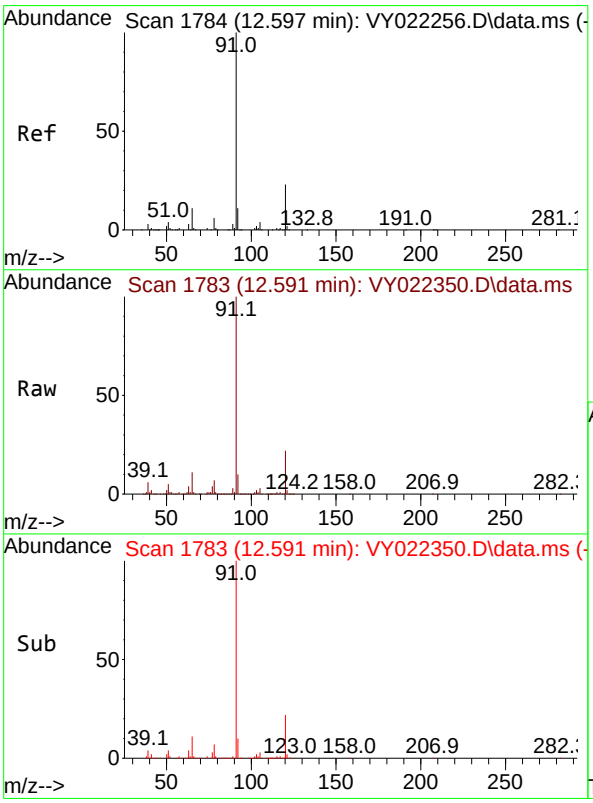
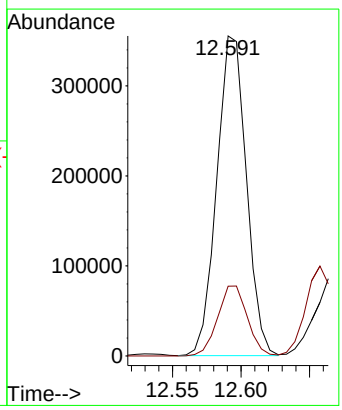
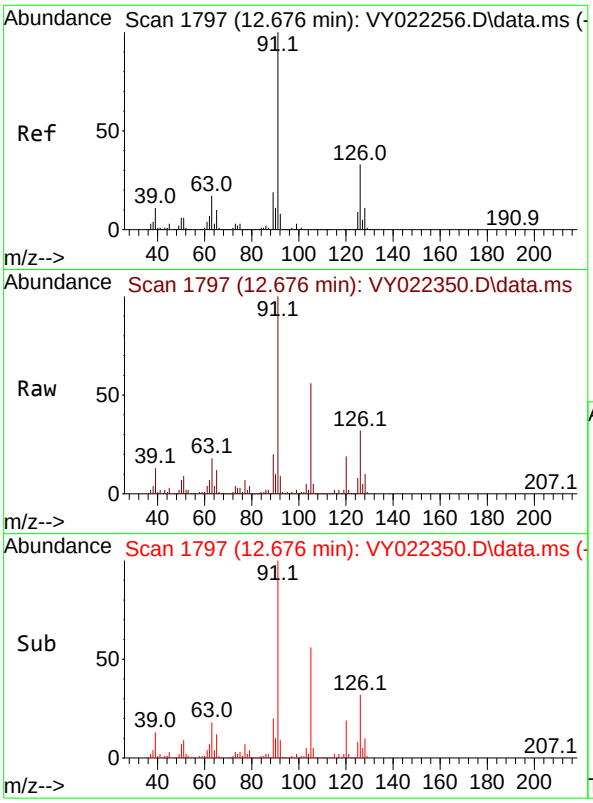



#78
n-propylbenzene
Concen: 58.120 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 91 Resp: 533019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.1 | 11.1 | 33.3 |

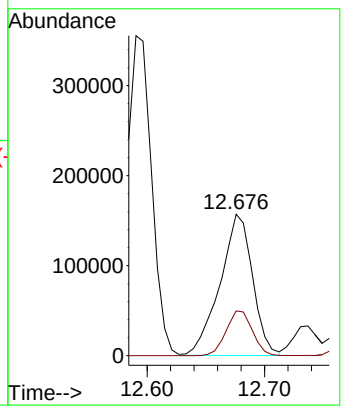





#79
2-Chlorotoluene
Concen: 59.976 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 91 Resp: 30226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 25.6 | 16.8 | 50.4 |




**Instrument :**
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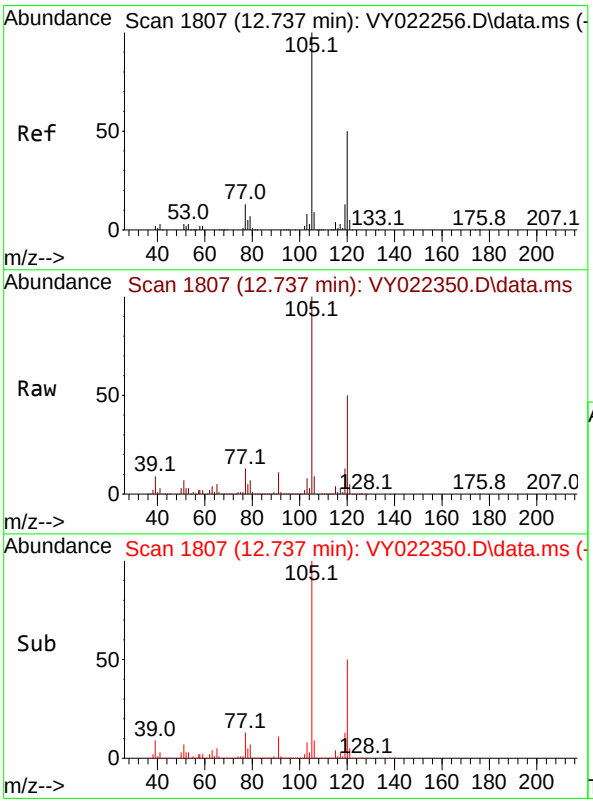
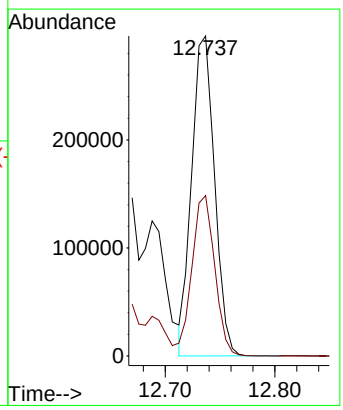
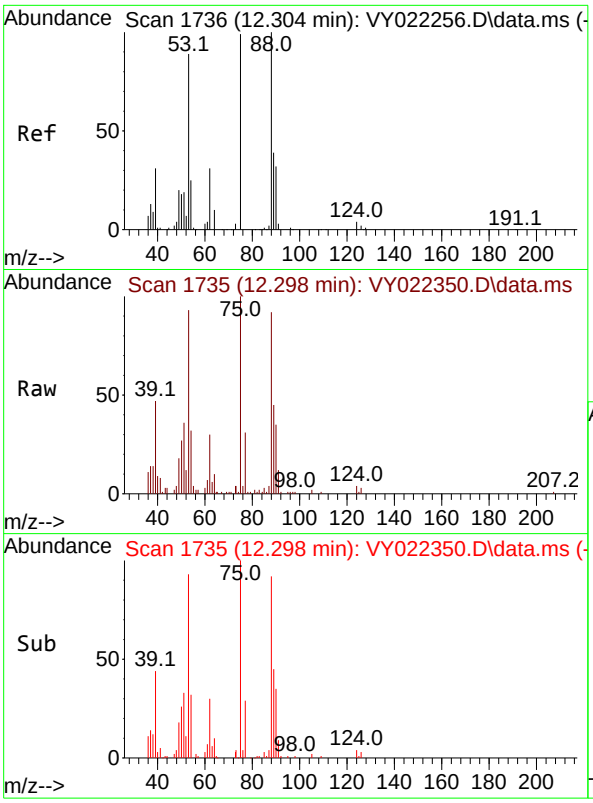



#80
1,3,5-Trimethylbenzene
Concen: 69.992 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:105 Resp: 429588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.4 | 24.2 | 72.6 |

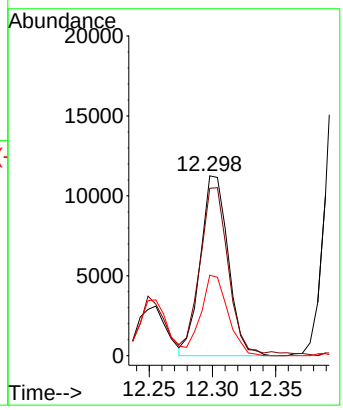





#81
trans-1,4-Dichloro-2-butene
Concen: 37.548 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 75 Resp: 1723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 97.4 | 75.8 | 113.8 |
| 89 | 43.1 | 36.2 | 54.2 |




**Instrument :**
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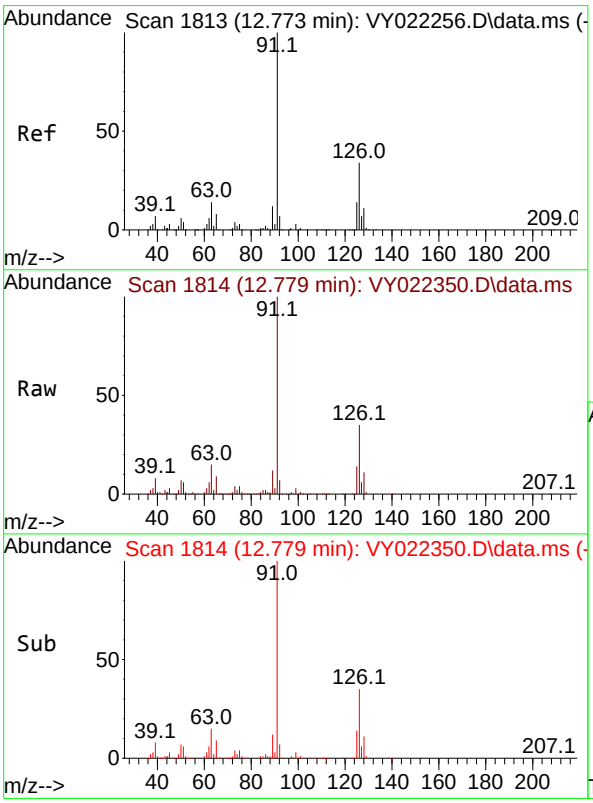
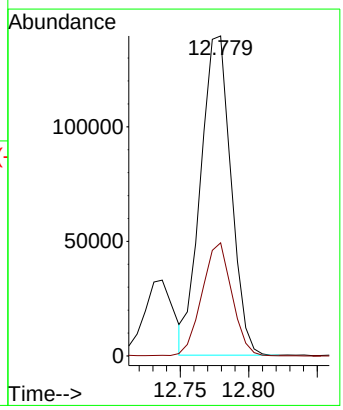
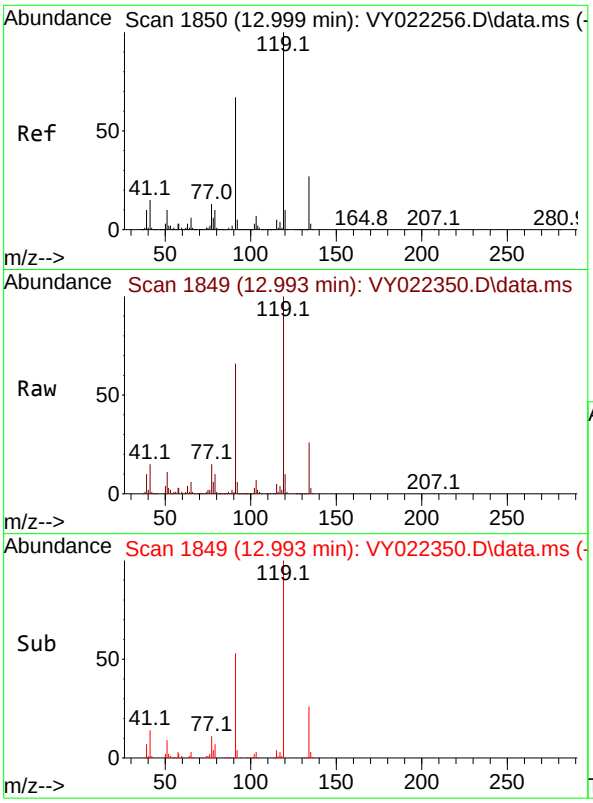



#82
4-Chlorotoluene
Concen: 41.421 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 91 Resp: 214721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.0 | 16.8 | 50.4 |

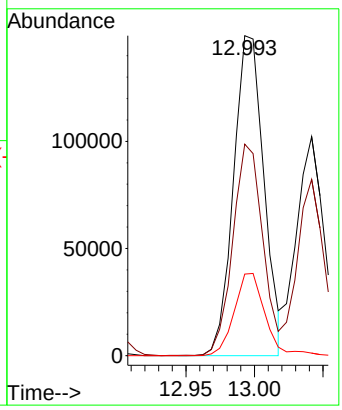





#83
tert-Butylbenzene
Concen: 42.273 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:119 Resp: 23060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.1 | 32.8 | 98.3 |
| 134 | 26.2 | 12.9 | 38.6 |




**Instrument :**
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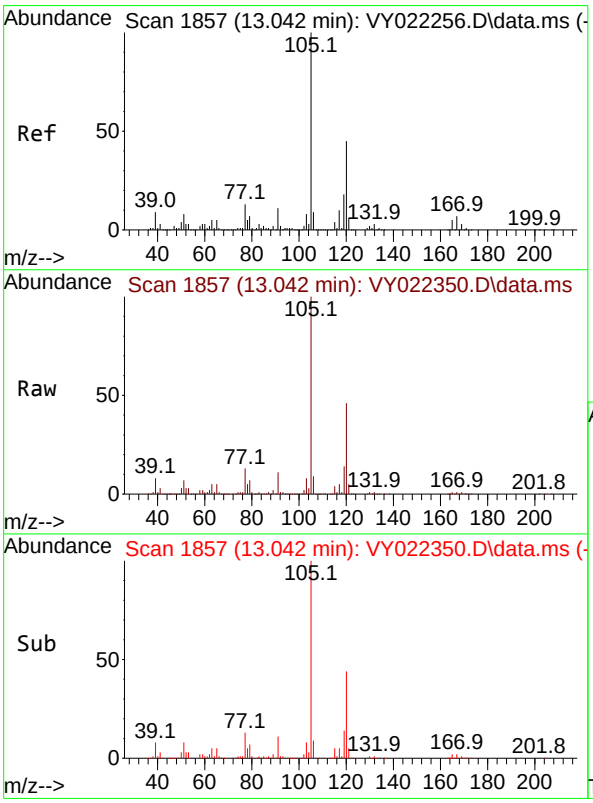
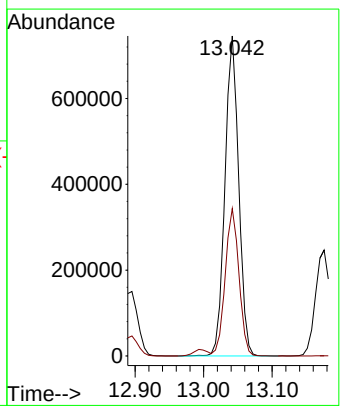
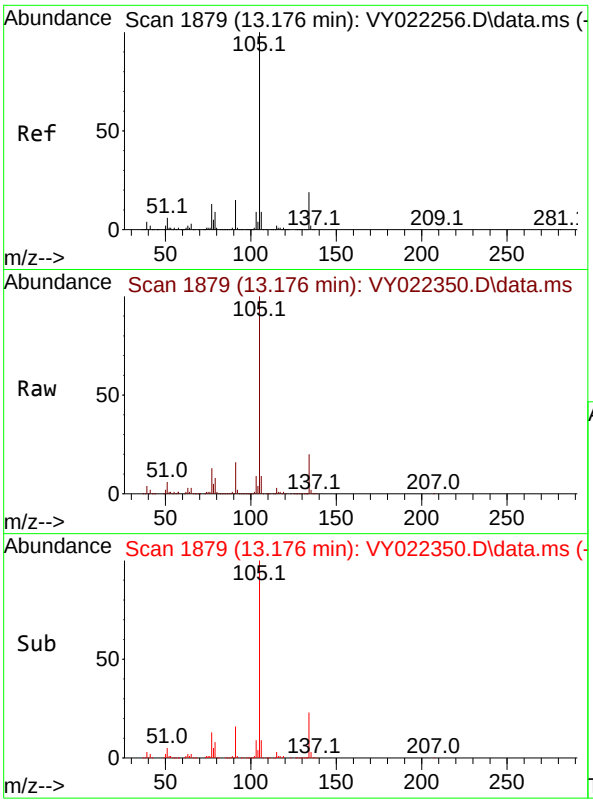



#84
1,2,4-Trimethylbenzene
Concen: 169.301 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:105 Resp: 1031502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.1 | 22.3 | 66.9 |

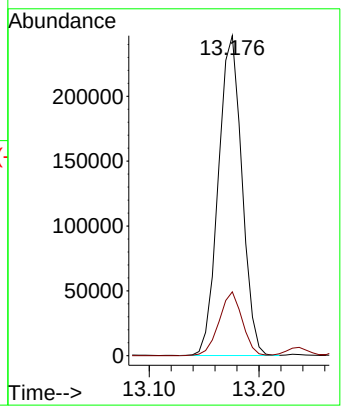





#85
sec-Butylbenzene
Concen: 45.512 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:105 Resp: 36855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.7 | 9.8 | 29.5 |




**Instrument :**
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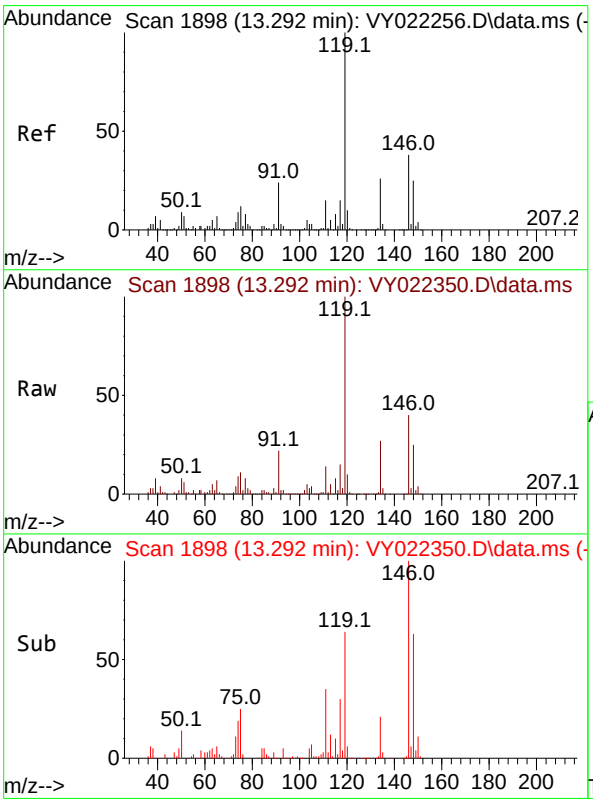
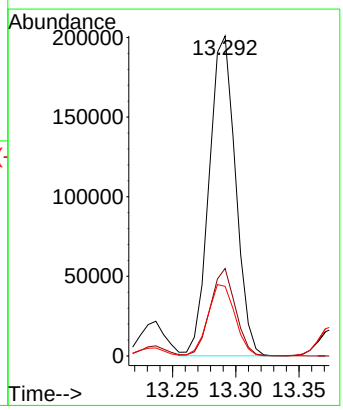
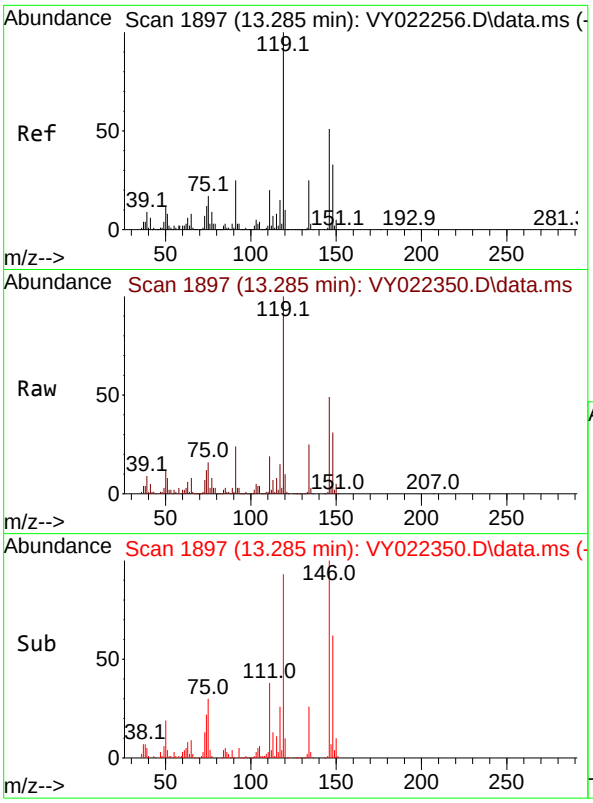



#86
p-Isopropyltoluene
Concen: 42.756 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:119 Resp: 291194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.1 | 12.9 | 38.6 |
| 91 | 22.9 | 12.1 | 36.3 |

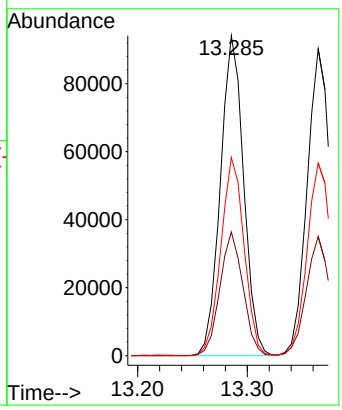





#87
1,3-Dichlorobenzene
Concen: 41.845 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:146 Resp: 13871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.1 | 19.9 | 59.7 |
| 148 | 62.0 | 31.9 | 95.7 |

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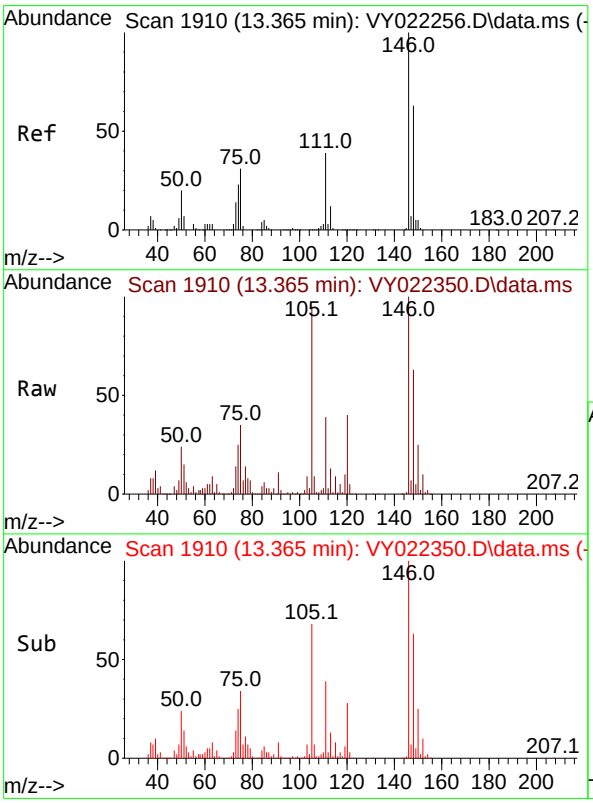
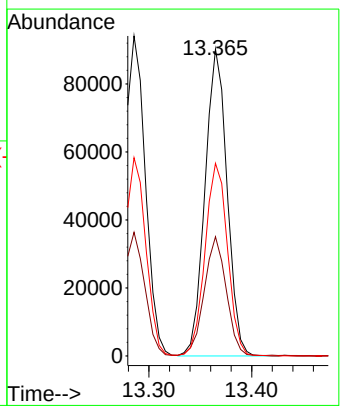
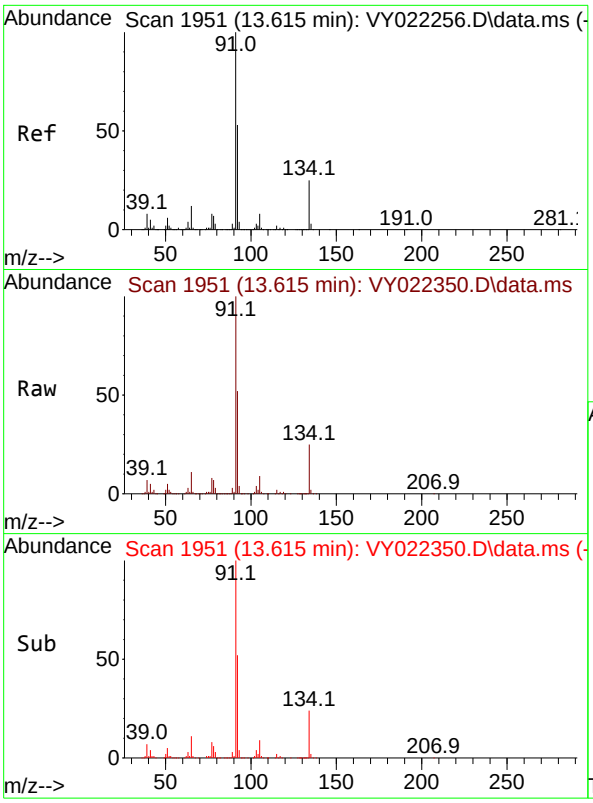



#88
1,4-Dichlorobenzene
Concen: 42.329 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:146 Resp: 134979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.5 | 20.0 | 59.9 |
| 148 | 64.0 | 32.1 | 96.5 |

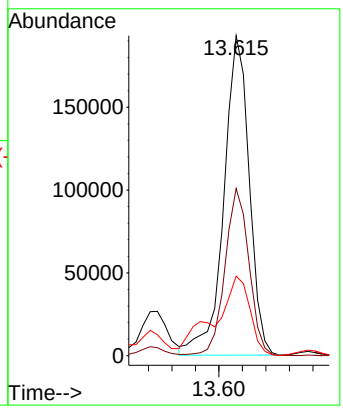





#89
n-Butylbenzene
Concen: 44.935 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 91 Resp: 28952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 49.4 | 26.3 | 78.9 |
| 134 | 35.1 | 12.4 | 37.4 |

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SS-11MS

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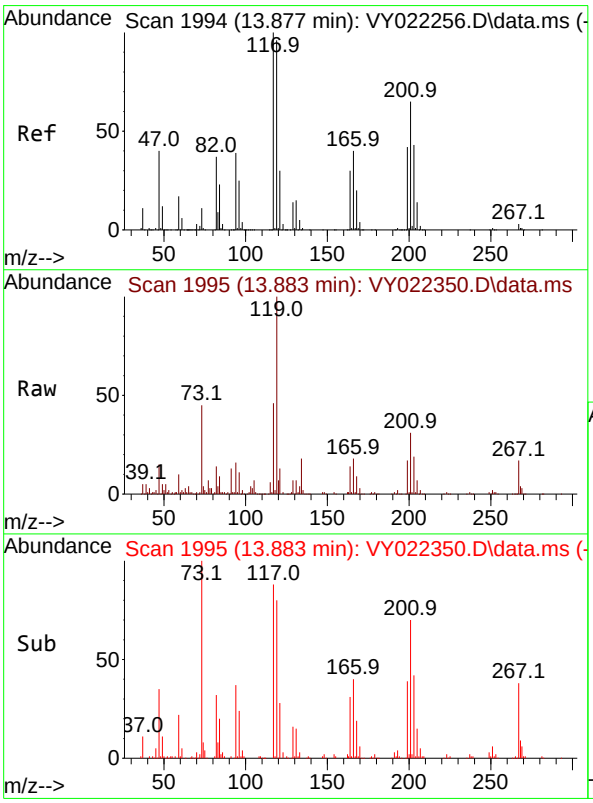
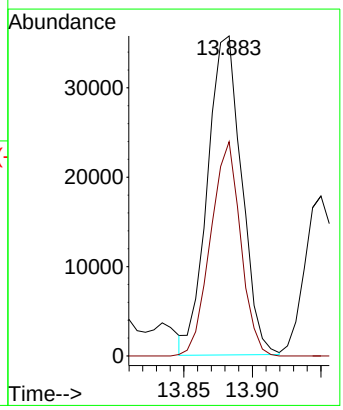
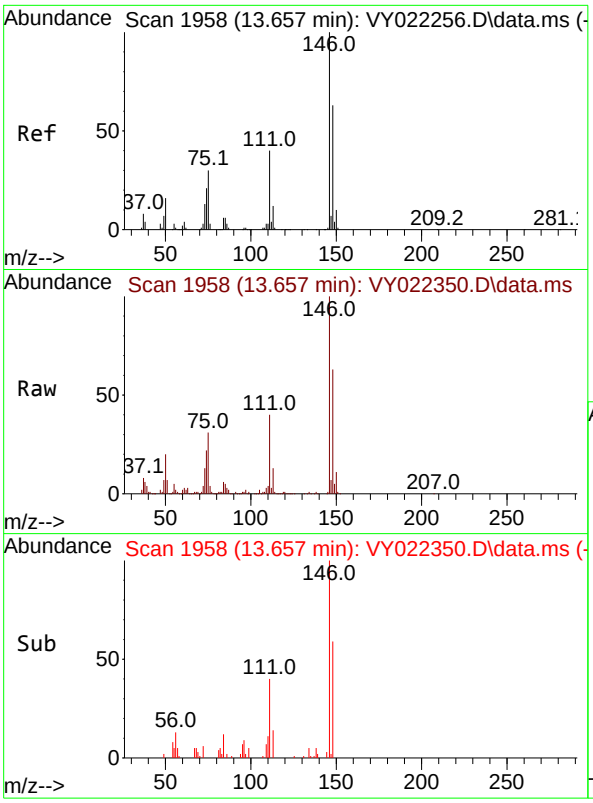



#90
Hexachloroethane
Concen: 44.862 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:117 Resp: 61677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 59.3 | 35.2 | 105.6 |

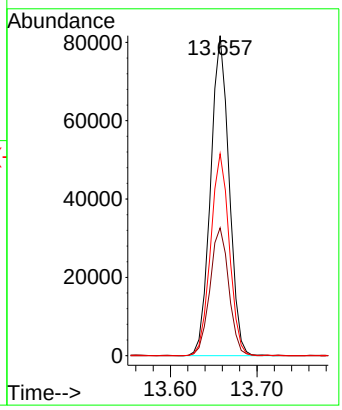





#91
1,2-Dichlorobenzene
Concen: 43.485 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:146 Resp: 12108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.8 | 20.5 | 61.5 |
| 148 | 63.6 | 32.0 | 96.0 |




**Instrument :**
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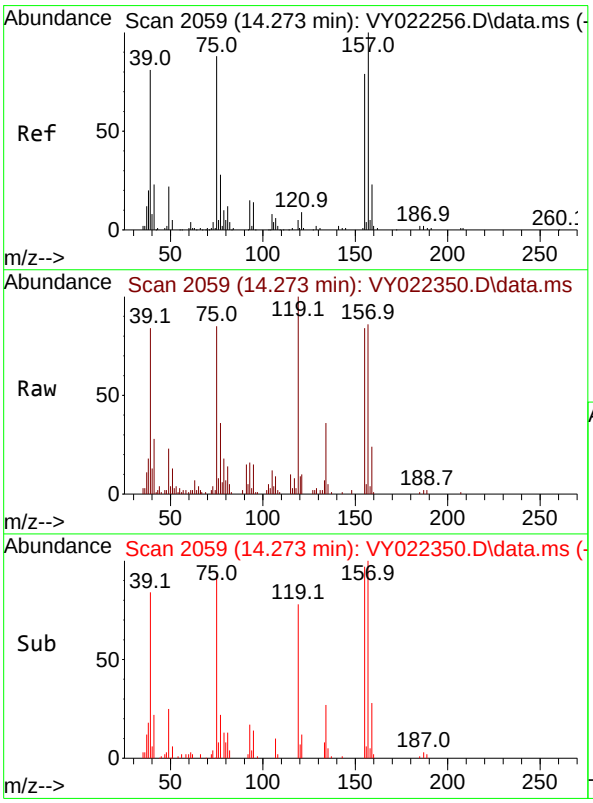
**ClientSampleId :**
SS-11MS

**Manual Integrations**
**APPROVED**

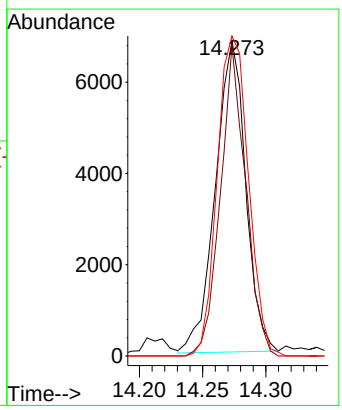
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

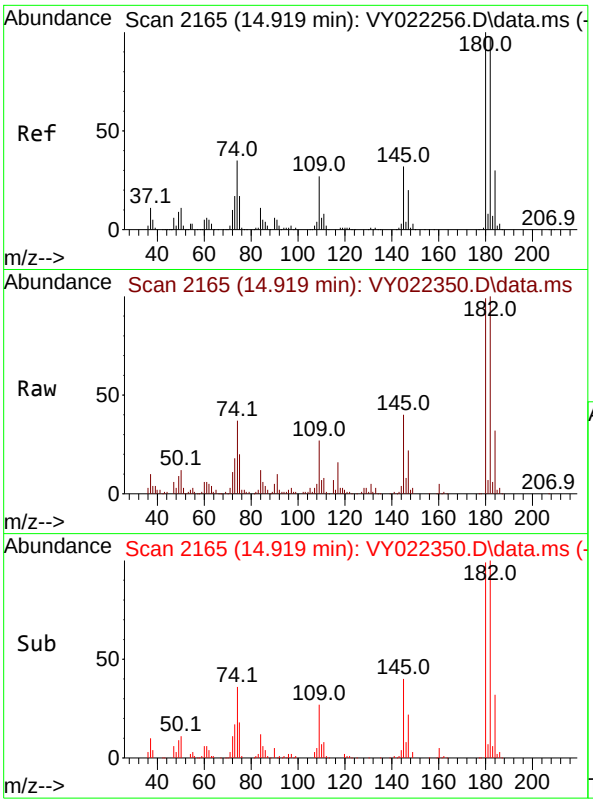



#92
1,2-Dibromo-3-Chloropropane
Concen: 60.046 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion: 75 Resp: 11322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 83.7 | 43.4 | 130.1 |
| 157 | 106.1 | 54.6 | 163.9 |

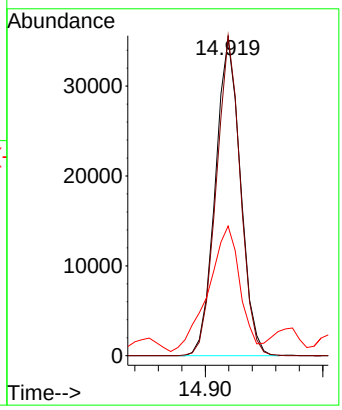





#93
1,2,4-Trichlorobenzene
Concen: 32.643 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:180 Resp: 5250

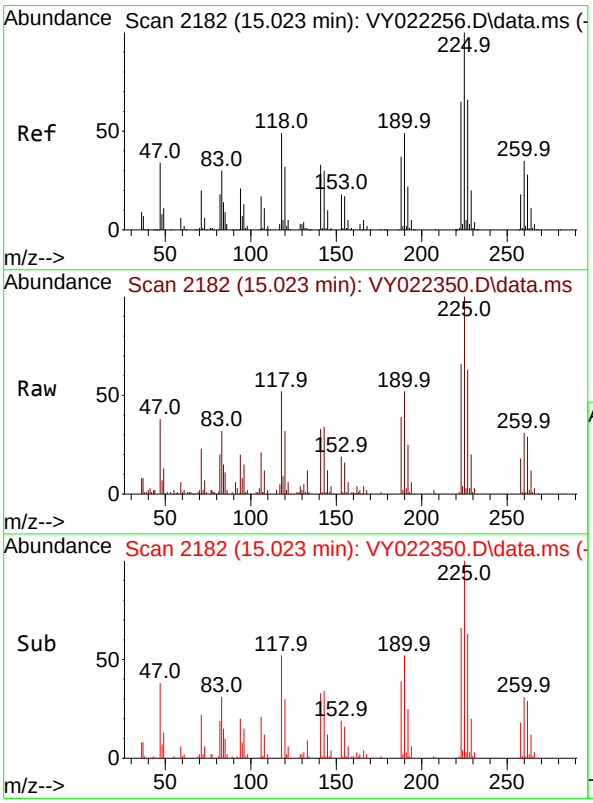
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.5 | 48.0 | 144.0 |
| 145 | 53.8 | 15.0 | 45.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
**APPROVED**

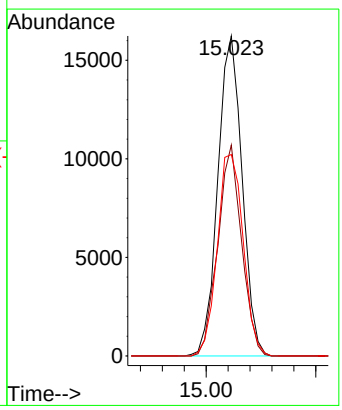
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

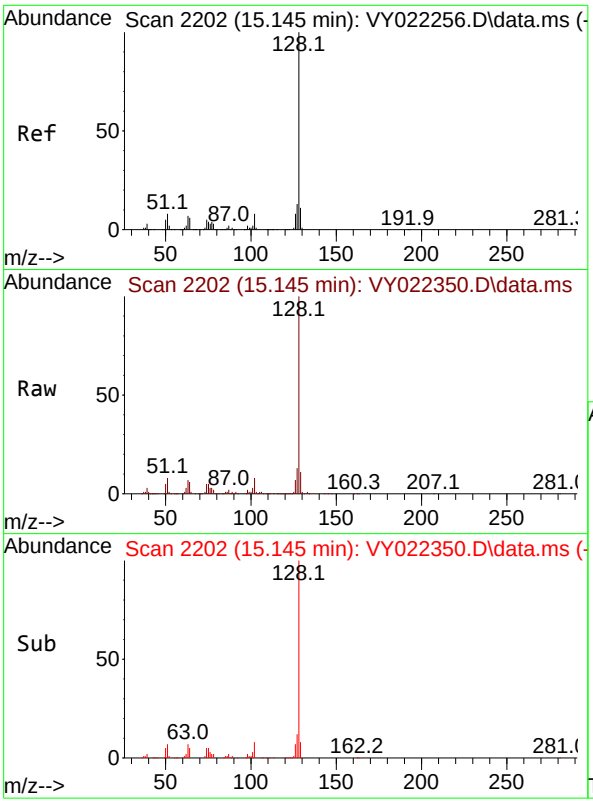



#94
Hexachlorobutadiene
Concen: 27.873 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:225 Resp: 25002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.5 | 31.5 | 94.5 |
| 227 | 67.4 | 32.1 | 96.3 |






#95
Naphthalene
Concen: 67.728 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

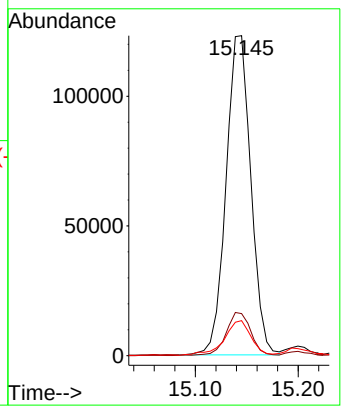
Tgt Ion:128 Resp: 20673

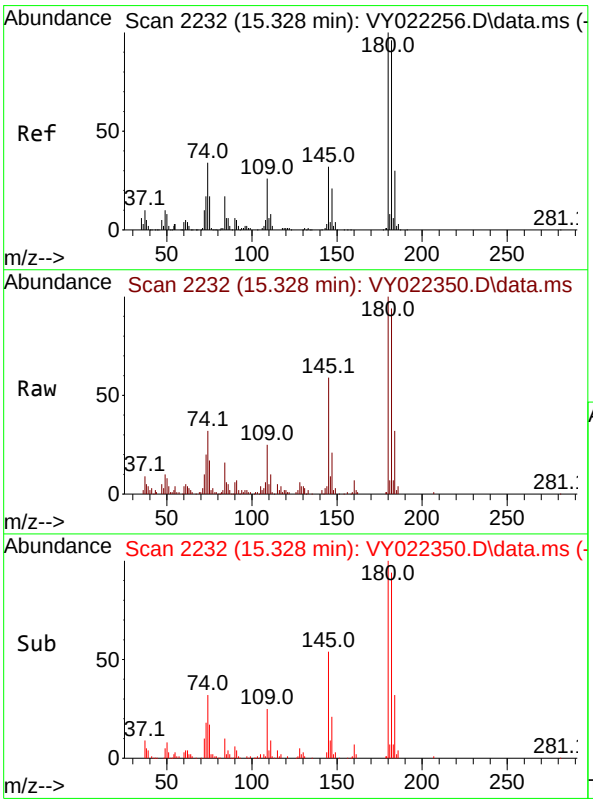
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.2 | 15.2 |
| 129 | 11.5 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MS

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

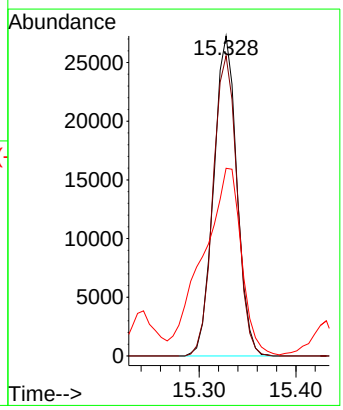



#96
1,2,3-Trichlorobenzene
Concen: 33.285 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022350.D
Acq: 20 May 2025 18:04

Tgt Ion:180 Resp: 45418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.7 | 47.1 | 141.3 |
| 145 | 96.6 | 15.9 | 47.6# |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 05/15/25 |
| Project: | Con Ed UTEN Mount Vernon, NY | Date Received: | 05/16/25 |
| Client Sample ID: | SS-11MSD | SDG No.: | Q2075 |
| Lab Sample ID: | Q2075-05MSD | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 87.4 |
| Sample Wt/Vol: | 8.33 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022351.D | 1 | | 05/20/25 18:26 | VY052025 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 71-43-2 | Benzene | 43.1 | | 0.54 | 3.40 | ug/Kg |
| 108-88-3 | Toluene | 52.7 | | 0.54 | 3.40 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 54.6 | | 0.46 | 3.40 | ug/Kg |
| 1330-20-7 | Total Xylenes | 219 | | 1.41 | 10.3 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 40.5 | | 0.54 | 3.40 | ug/Kg |
| 103-65-1 | n-propylbenzene | 43.6 | | 0.50 | 3.40 | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | 49.0 | | 0.56 | 3.40 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 37.7 | | 0.46 | 3.40 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 96.4 | | 0.44 | 3.40 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 37.6 | | 0.45 | 3.40 | ug/Kg |
| 99-87-6 | p-Isopropyltoluene | 36.2 | | 0.43 | 3.40 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 36.4 | | 1.00 | 3.40 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 62.7 | | 63 - 155 | 125% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.3 | | 70 - 134 | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.1 | | 74 - 123 | 90% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 45.4 | | 38 - 136 | 91% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 118000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 220000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 197000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 91200 | 13.346 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022351.D
Acq On : 20 May 2025 18:26
Operator : SY/MD
Sample : Q2075-05MSD
Misc : 8.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 21 01:56:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 117744 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 220285 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 197296 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 91227 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 80702 | 62.714 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 125.420% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 67447 | 51.299 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 102.600% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 243044 | 45.135 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 90.280% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 77563 | 45.444 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 90.880% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 69752 | 56.773 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 149030 | 57.664 | ug/l | 99 |
| 4) Vinyl Chloride | 2.202 | 62 | 204676 | 70.884 | ug/l | 97 |
| 5) Bromomethane | 2.592 | 94 | 169892 | 72.277 | ug/l | 96 |
| 6) Chloroethane | 2.732 | 64 | 144872 | 80.648 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 187596 | 64.170 | ug/l | 99 |
| 8) Diethyl Ether | 3.452 | 74 | 48755 | 69.492 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 77753 | 61.264 | ug/l | 99 |
| 10) Methyl Iodide | 4.001 | 142 | 93043 | 63.341 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 34756 | 353.689 | ug/l # | 100 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 79516 | 63.135 | ug/l | 92 |
| 13) Acrolein | 3.647 | 56 | 12008 | 83.588 | ug/l | 94 |
| 14) Allyl chloride | 4.385 | 41 | 116351 | 52.687 | ug/l | 94 |
| 15) Acrylonitrile | 5.055 | 53 | 104332 | 360.903 | ug/l | 99 |
| 16) Acetone | 3.866 | 43 | 111202 | 460.865 | ug/l | 100 |
| 17) Carbon Disulfide | 4.104 | 76 | 257099 | 62.600 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 86490 | 113.688 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 243870 | 70.224 | ug/l | 97 |
| 20) Methylene Chloride | 4.610 | 84 | 103093 | 66.122 | ug/l | 93 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 90197 | 64.882 | ug/l | 94 |
| 22) Diisopropyl ether | 6.012 | 45 | 291066 | 62.413 | ug/l | 97 |
| 23) Vinyl Acetate | 5.957 | 43 | 416854m | 147.955 | ug/l | |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 169790 | 65.168 | ug/l | 99 |
| 25) 2-Butanone | 6.890 | 43 | 145998 | 361.733 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 134022 | 57.834 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 109957 | 68.542 | ug/l | 94 |
| 28) Bromochloromethane | 7.244 | 49 | 64696 | 58.214 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.256 | 42 | 87898 | 338.510 | ug/l | 92 |
| 30) Chloroform | 7.421 | 83 | 170151 | 68.085 | ug/l | 99 |
| 31) Cyclohexane | 7.701 | 56 | 148238 | 56.944 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 144918 | 63.206 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 118925 | 54.915 | ug/l | 100 |
| 37) Ethyl Acetate | 6.982 | 43 | 54726 | 52.521 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 120777 | 53.878 | ug/l | 96 |
| 39) Methylcyclohexane | 9.109 | 83 | 157684 | 54.197 | ug/l | 97 |
| 40) Benzene | 8.079 | 78 | 402961 | 62.767 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022351.D
Acq On : 20 May 2025 18:26
Operator : SY/MD
Sample : Q2075-05MSD
Misc : 8.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 21 01:56:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 33202m | 48.036 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 108892 | 62.721 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 126350 | 55.601 | ug/l | | 99 |
| 44) Trichloroethene | 8.866 | 130 | 93355 | 58.482 | ug/l | | 92 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 92211 | 59.576 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 53553 | 64.149 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.420 | 83 | 131028 | 60.501 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 65146 | 61.301 | ug/l | | 93 |
| 49) 1,4-Dioxane | 9.225 | 88 | 12322 | 1306.545 | ug/l | # | 92 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 343426 | 307.999 | ug/l | | 97 |
| 52) Toluene | 10.170 | 92 | 311976 | 76.740 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 116532 | 55.135 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 133810 | 55.258 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 70404 | 65.859 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 93754 | 56.302 | ug/l | | 96 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 121167 | 63.793 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 242440 | 324.368 | ug/l | | 99 |
| 59) 2-Hexanone | 10.762 | 43 | 233661 | 312.547 | ug/l | | 97 |
| 60) Dibromochloromethane | 10.908 | 129 | 86156 | 62.093 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 63680 | 63.913 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 110490 | 60.588 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 247023 | 55.496 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 87876 | 57.426 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 662491 | 79.472 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.627 | 106 | 646496 | 205.811 | ug/l | | 98 |
| 69) o-Xylene | 11.950 | 106 | 339682 | 114.296 | ug/l | | 98 |
| 70) Styrene | 11.969 | 104 | 286703 | 57.189 | ug/l | | 92 |
| 71) Bromoform | 12.133 | 173 | 47726 | 57.783 | ug/l | # | 96 |
| 73) Isopropylbenzene | 12.255 | 105 | 445609 | 58.961 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 48012 | 22.212 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 72829 | 62.659 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 53162m | 57.521 | ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 92821 | 57.504 | ug/l | | 98 |
| 78) n-propylbenzene | 12.590 | 91 | 578609 | 63.472 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 328215 | 65.517 | ug/l | | 92 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 435716 | 71.419 | ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 19607 | 42.975 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 275371 | 53.441 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 297328 | 54.832 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 850199 | 140.385 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 440134 | 54.679 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 357175 | 52.760 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 174544 | 52.969 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 171952 | 54.249 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.615 | 91 | 339824 | 53.059 | ug/l | | 96 |
| 90) Hexachloroethane | 13.877 | 117 | 71808 | 52.546 | ug/l | | 93 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 155596 | 56.214 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 12219 | 65.194 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 76925 | 48.113 | ug/l | | 95 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 36701 | 41.162 | ug/l | | 98 |
| 95) Naphthalene | 15.145 | 128 | 226323 | 74.594 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 65369 | 48.195 | ug/l | # | 86 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022351.D
Acq On : 20 May 2025 18:26
Operator : SY/MD
Sample : Q2075-05MSD
Misc : 8.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 21 01:56:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022351.D
Acq On : 20 May 2025 18:26
Operator : SY/MD
Sample : Q2075-05MSD
Misc : 8.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 21 01:56:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

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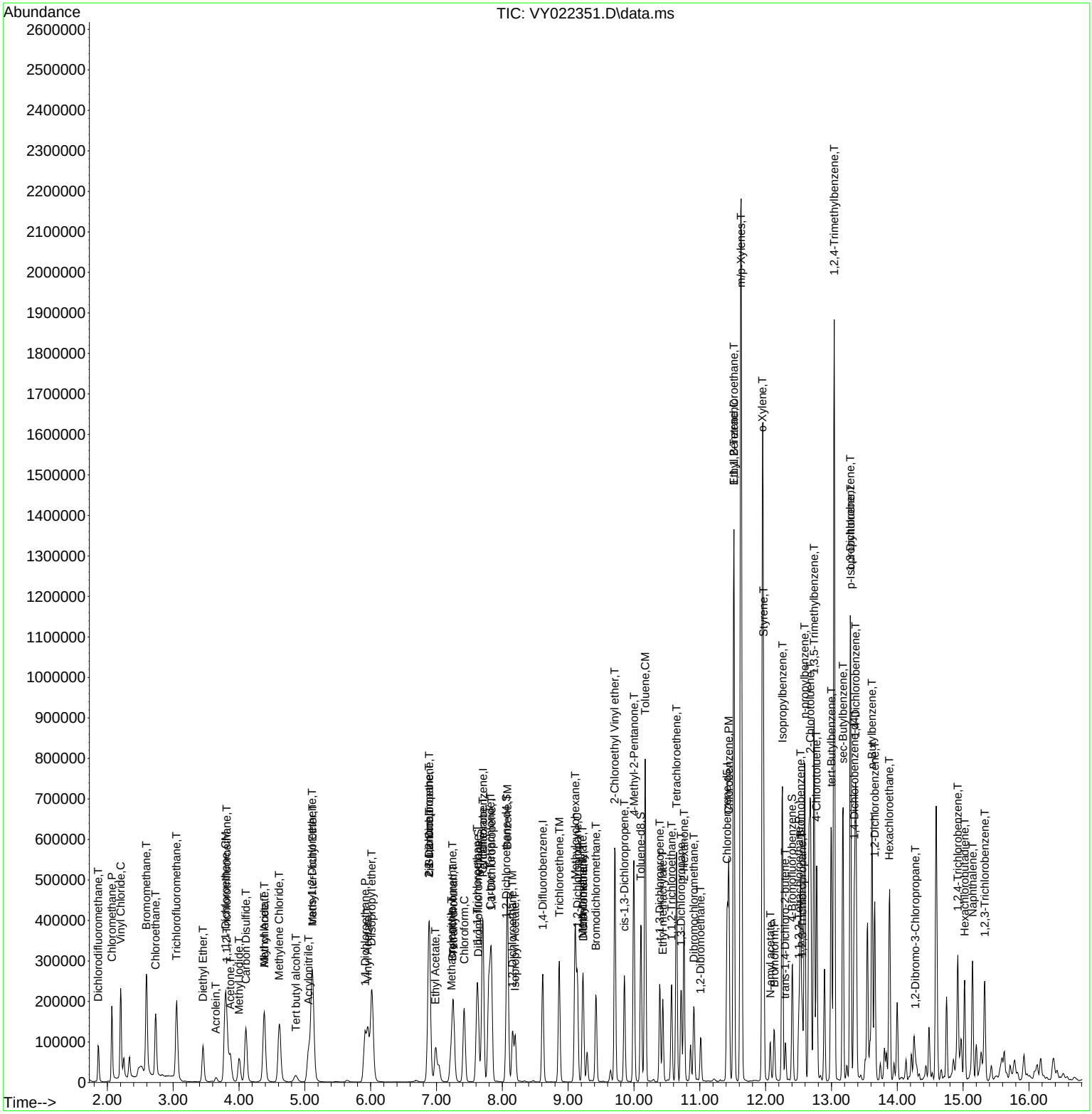
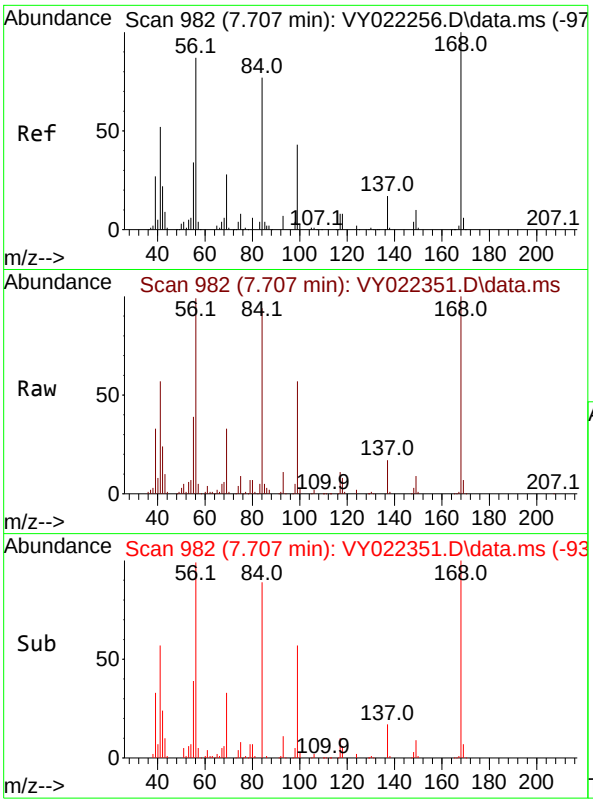
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

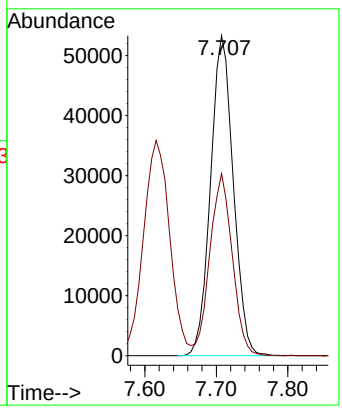





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:168 Resp: 11774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.8 | 44.2 | 66.4 |




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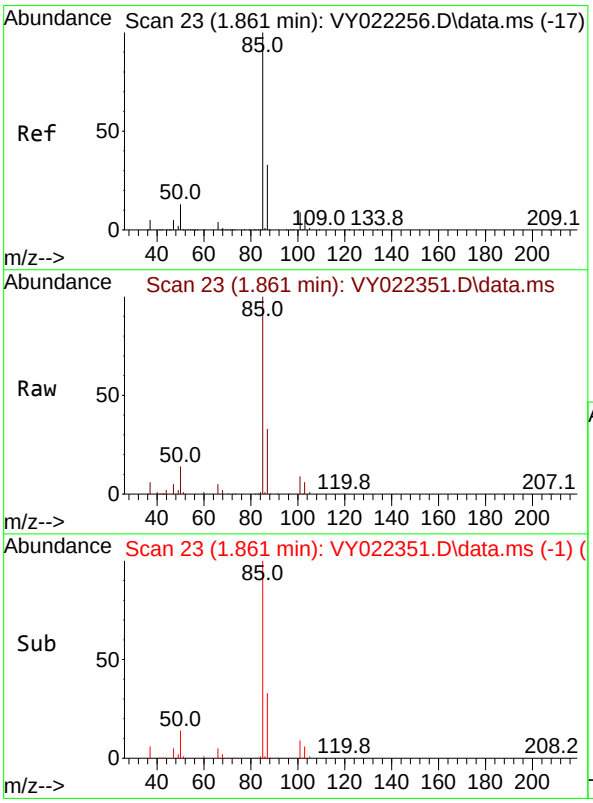
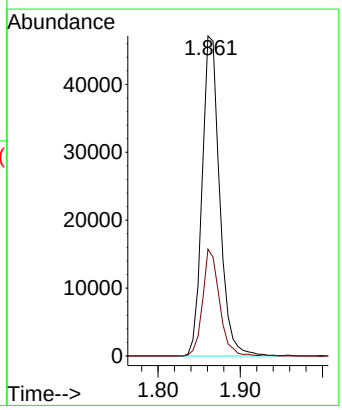
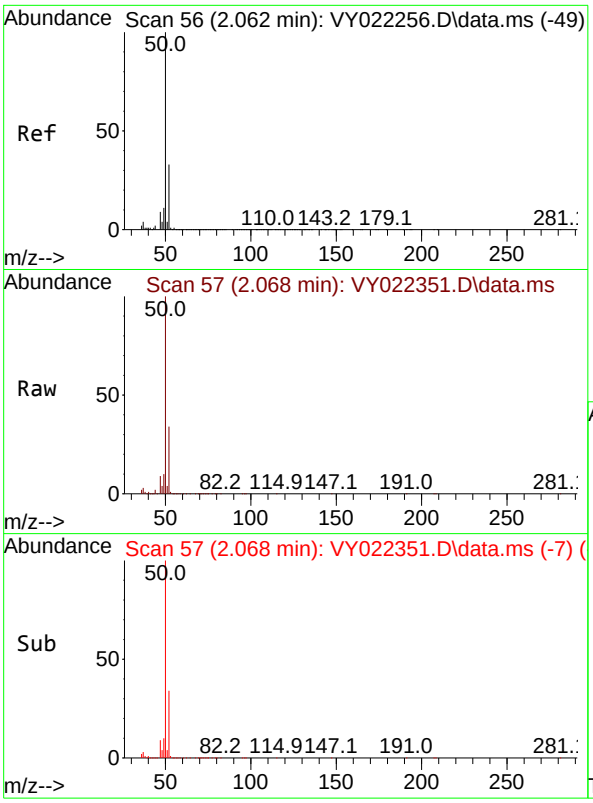



#2
Dichlorodifluoromethane
Concen: 56.773 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 85 Resp: 69752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.3 | 16.5 | 49.5 |

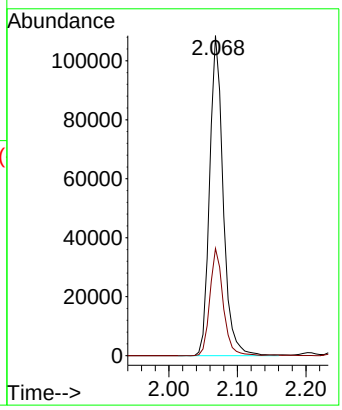





#3
Chloromethane
Concen: 57.664 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 50 Resp: 14903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.5 | 26.5 | 39.7 |

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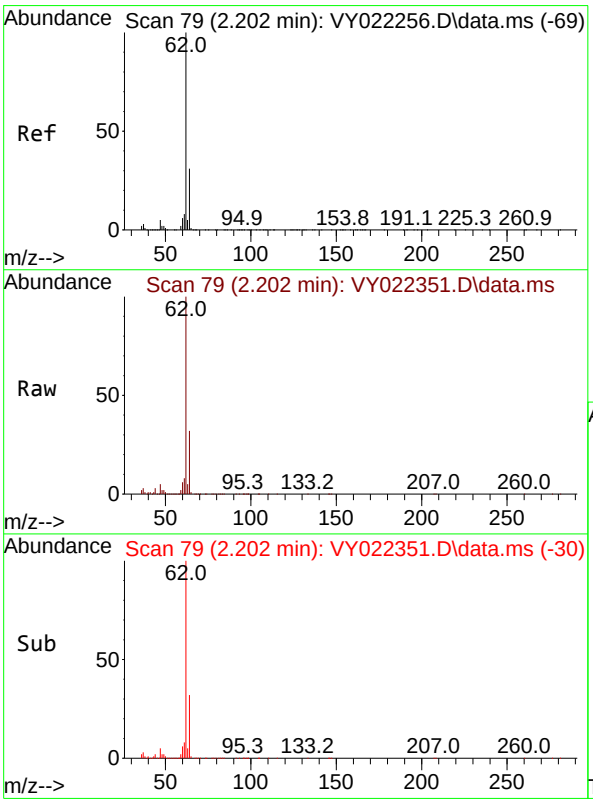
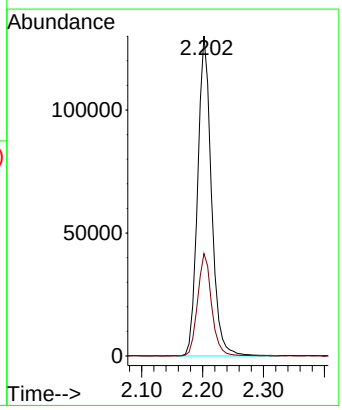
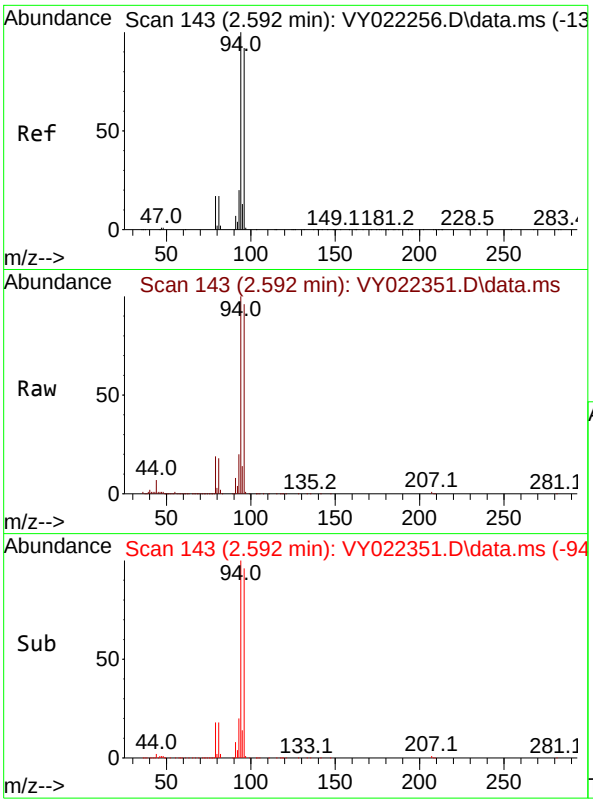



#4
Vinyl Chloride
Concen: 70.884 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 62 Resp: 204676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.0 | 24.5 | 36.7 |

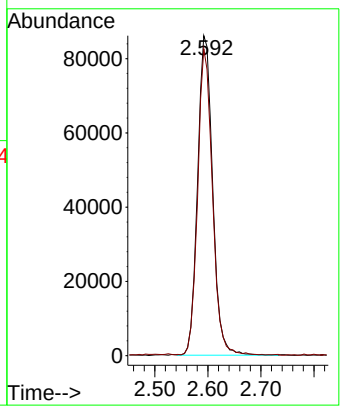





#5
Bromomethane
Concen: 72.277 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 94 Resp: 16989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.6 | 73.4 | 110.0 |




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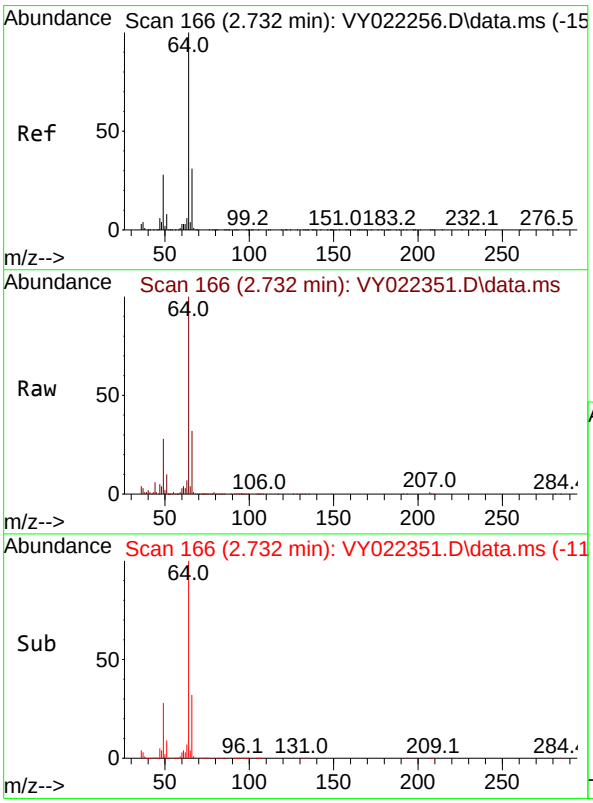
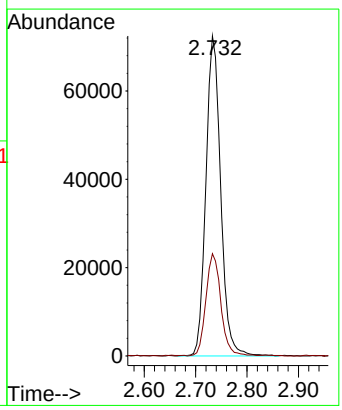
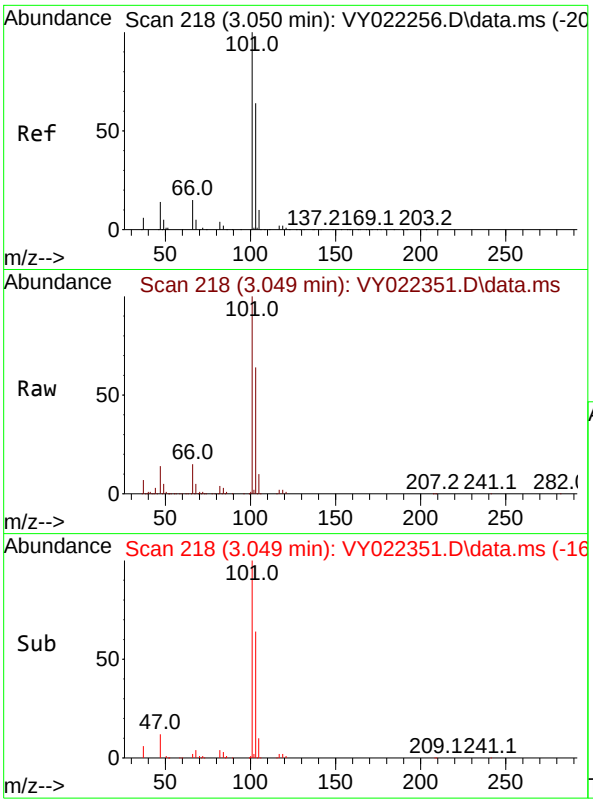



#6
Chloroethane
Concen: 80.648 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 64 Resp: 144872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.8 | 24.8 | 37.2 |

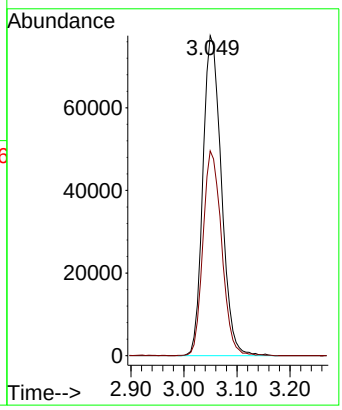





#7
Trichlorofluoromethane
Concen: 64.170 ug/l
RT: 3.049 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:101 Resp: 18759(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.0 | 51.7 | 77.5 |




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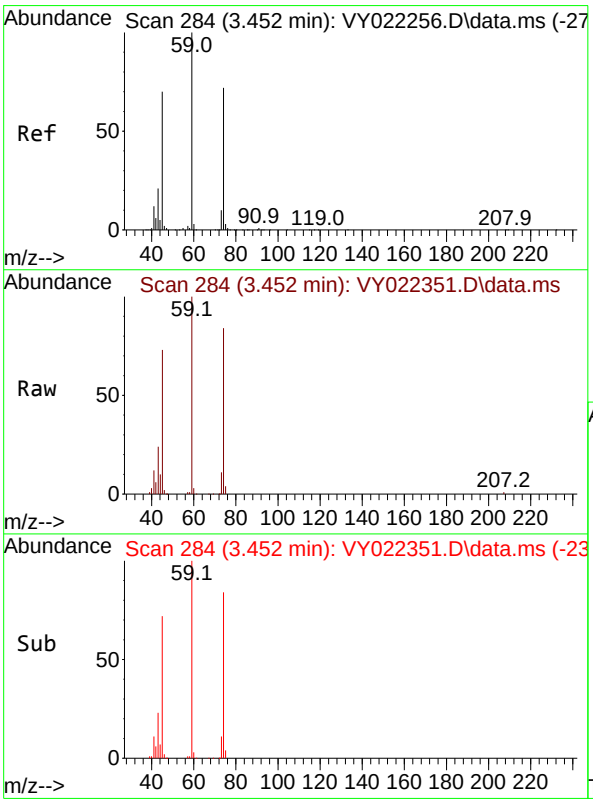
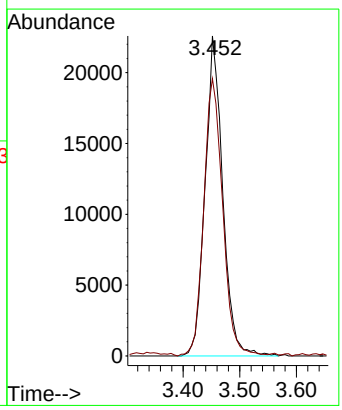
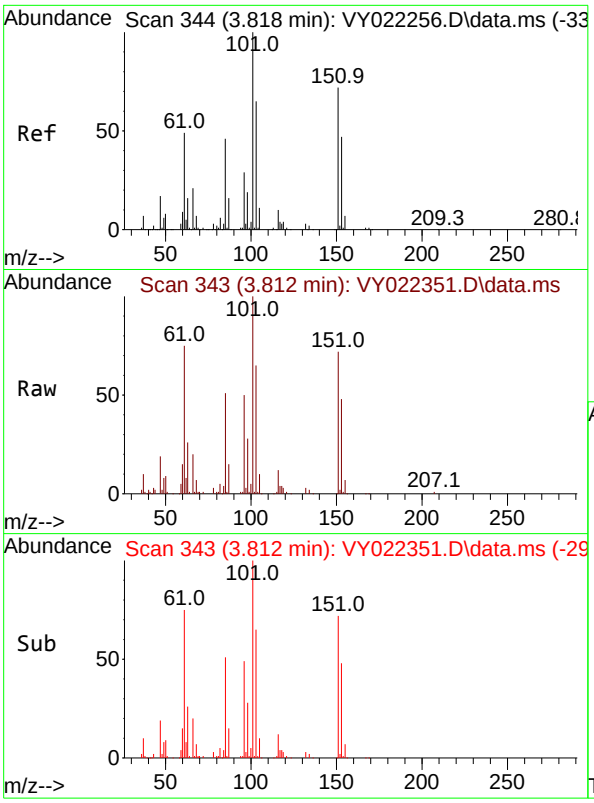



#8
Diethyl Ether
Concen: 69.492 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 74 Resp: 48755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 93.0 | 48.6 | 145.8 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 61.264 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:101 Resp: 7775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 49.5 | 38.6 | 58.0 |
| 151 | 73.6 | 59.7 | 89.5 |

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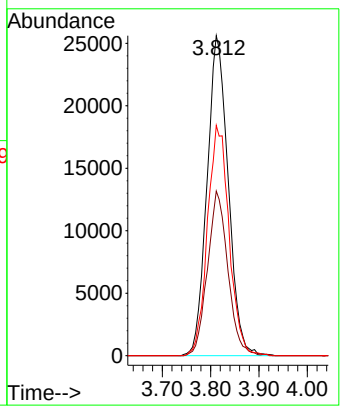
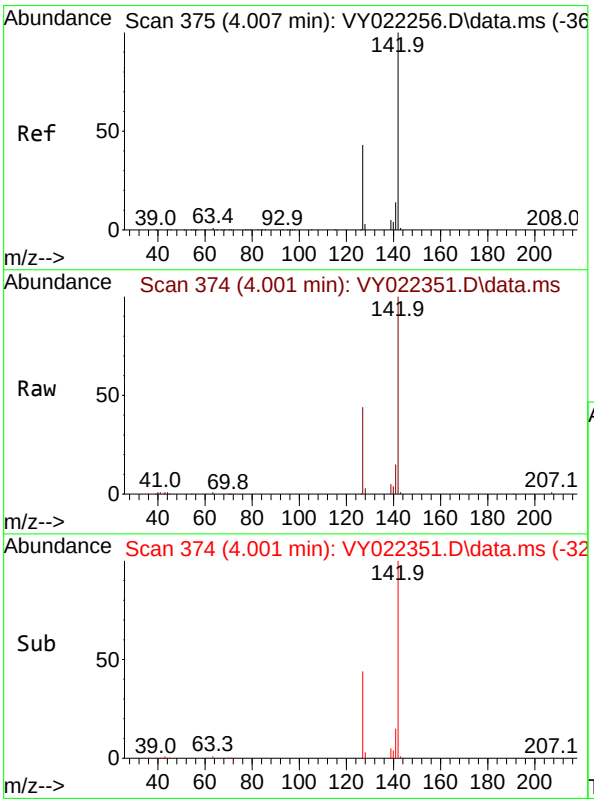
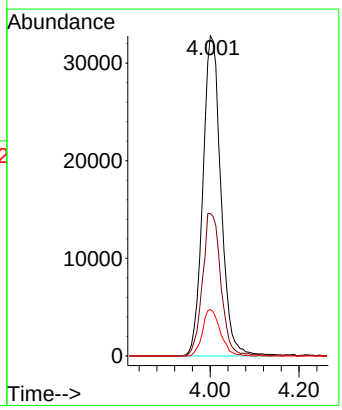


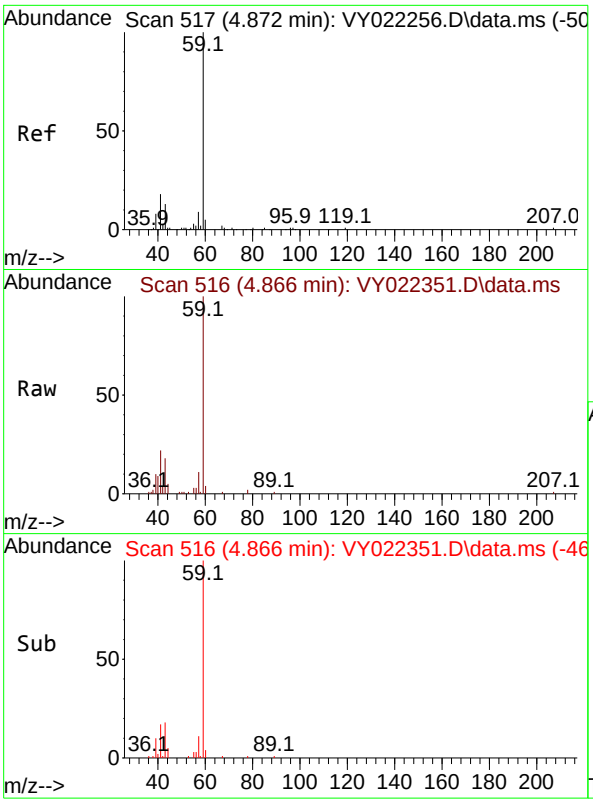




#10
Methyl Iodide
Concen: 63.341 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:142 Resp: 93043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.3 | 35.7 | 53.5 |
| 141 | 14.3 | 11.1 | 16.7 |

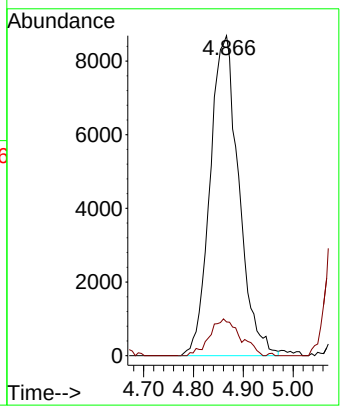





#11
Tert butyl alcohol
Concen: 353.689 ug/l
RT: 4.866 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 59 Resp: 3475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 12.3 | 0.0 | 0.0 |

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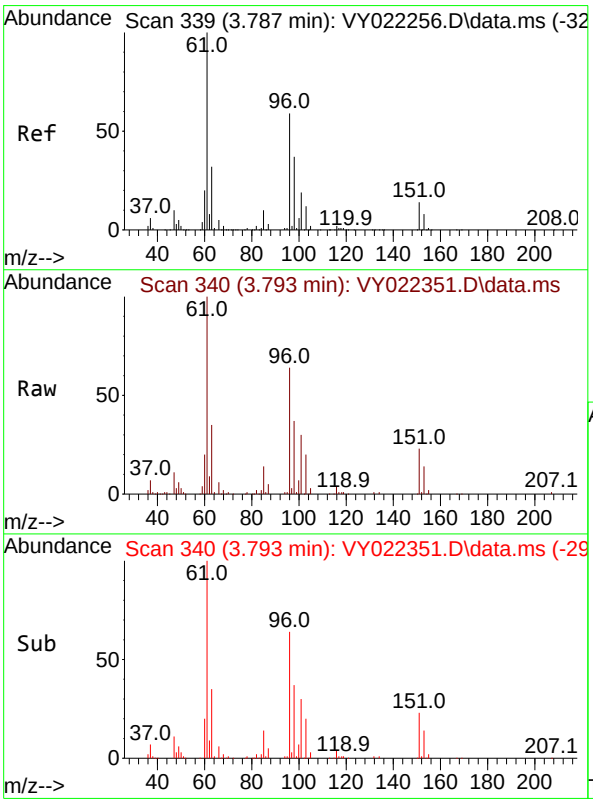
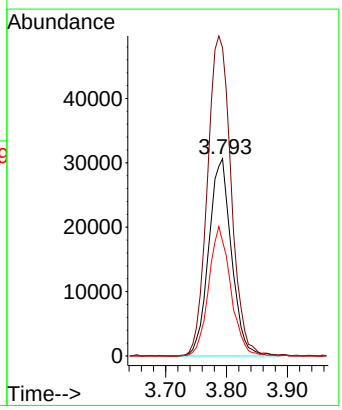
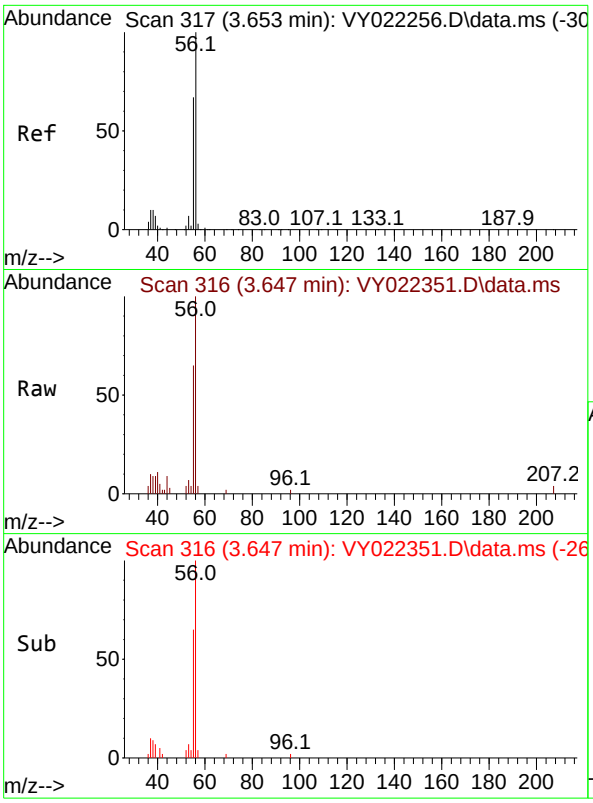



#12
1,1-Dichloroethene
Concen: 63.135 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 96 Resp: 79516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 156.3 | 134.9 | 202.3 |
| 98 | 58.1 | 49.9 | 74.9 |

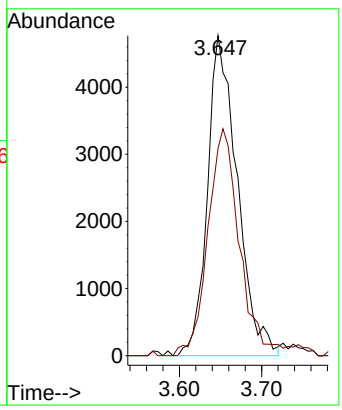





#13
Acrolein
Concen: 83.588 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 56 Resp: 1200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 74.8 | 55.6 | 83.4 |




**Instrument :**
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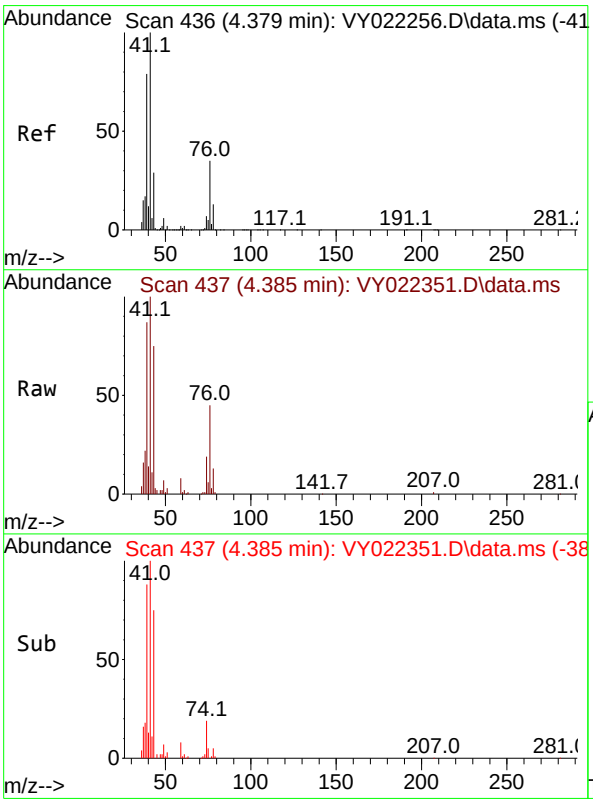
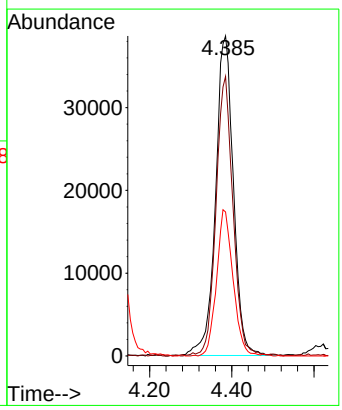
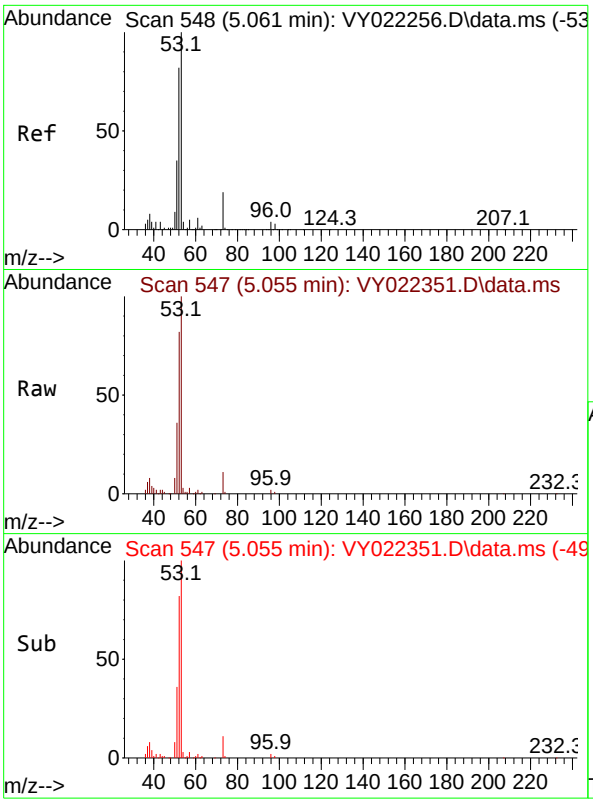



#14
Allyl chloride
Concen: 52.687 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 41 Resp: 116351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 83.5 | 63.4 | 95.0 |
| 76 | 42.3 | 29.5 | 44.3 |

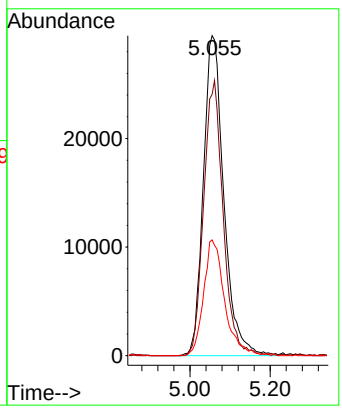





#15
Acrylonitrile
Concen: 360.903 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 53 Resp: 10433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.9 | 66.1 | 99.1 |
| 51 | 37.1 | 30.0 | 45.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations**
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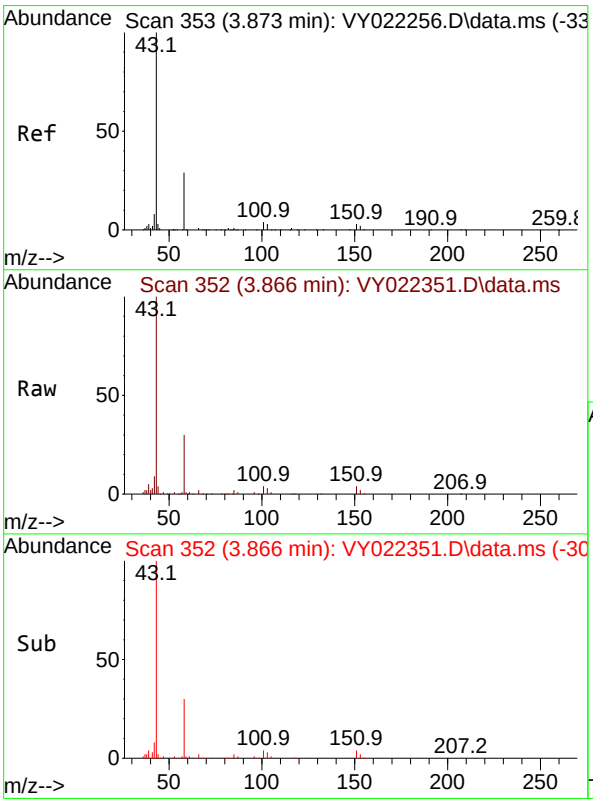
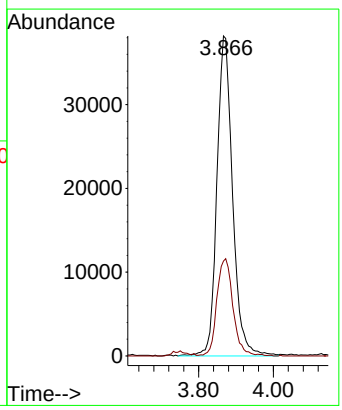
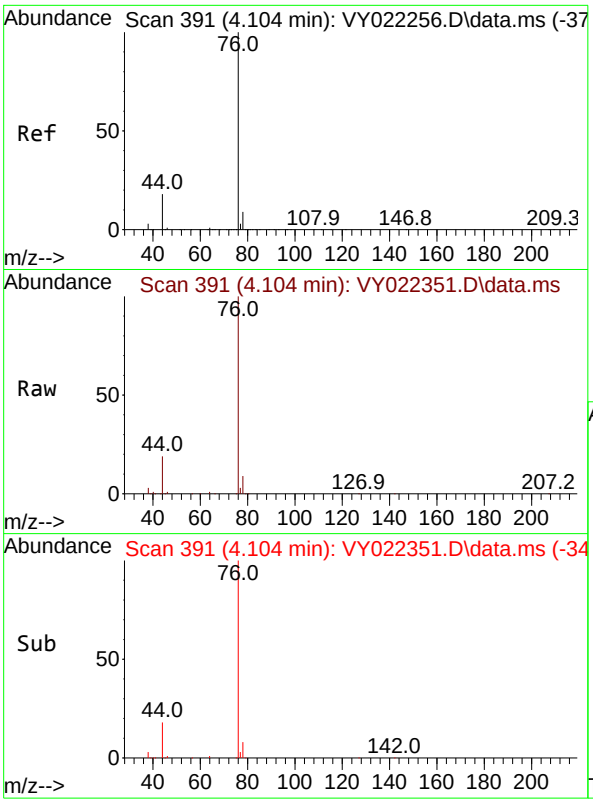



#16
Acetone
Concen: 460.865 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 43 Resp: 111202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.6 | 23.6 | 35.4 |

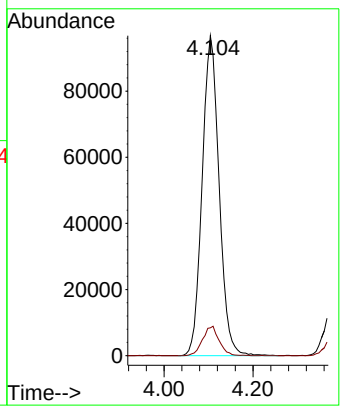





#17
Carbon Disulfide
Concen: 62.600 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 76 Resp: 25709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.7 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

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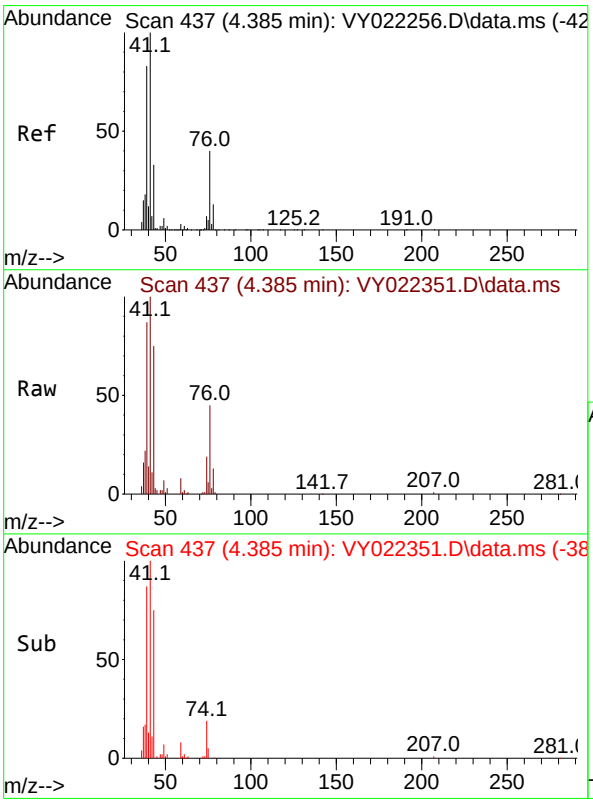
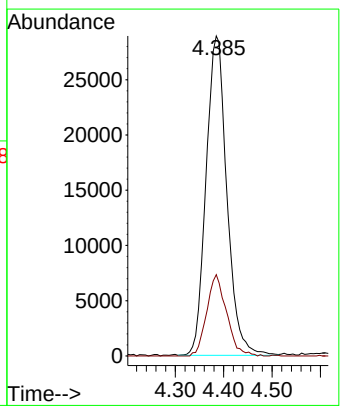
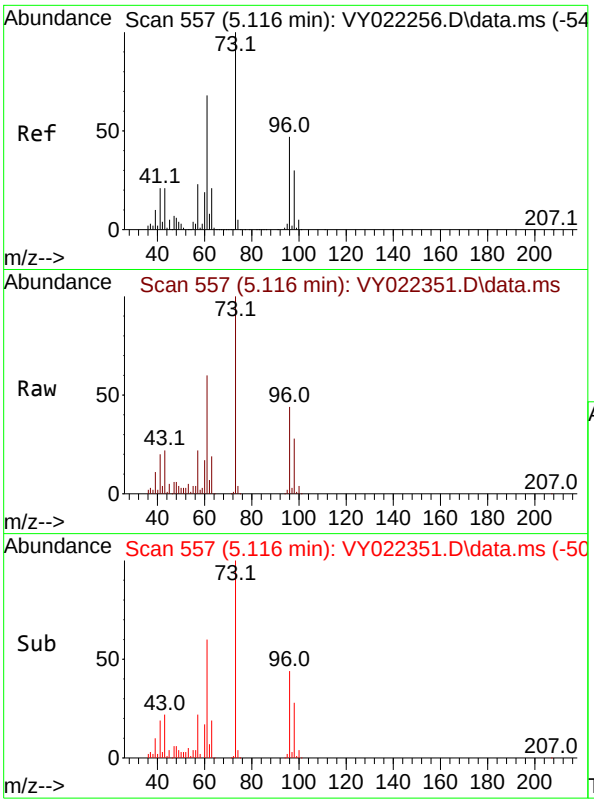



#18
Methyl Acetate
Concen: 113.688 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 43 Resp: 86490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.3 | 18.2 | 27.4 |

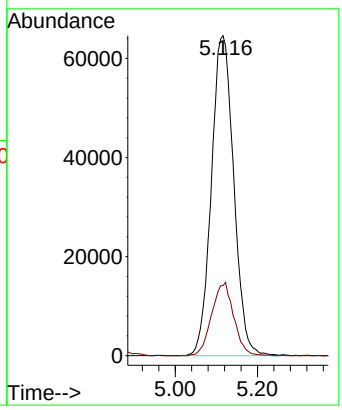





#19
Methyl tert-butyl Ether
Concen: 70.224 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 73 Resp: 24387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.9 | 18.6 | 28.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations**
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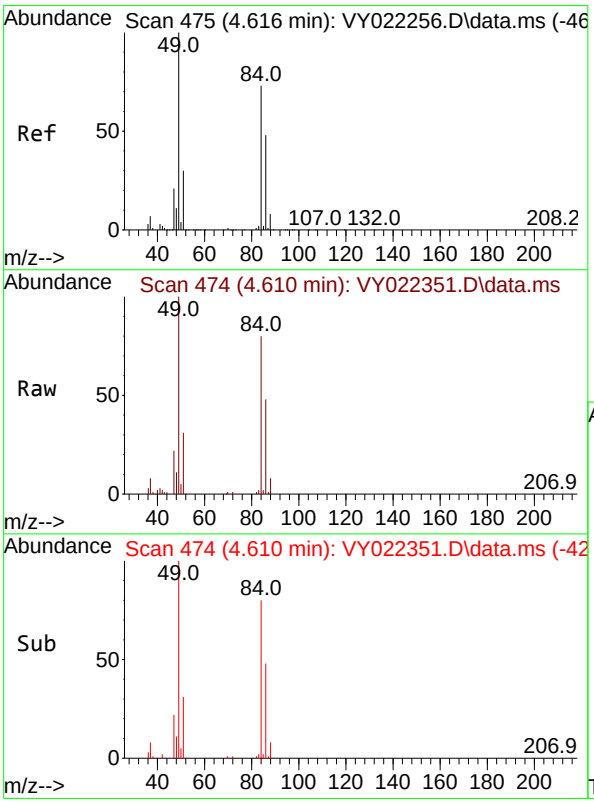
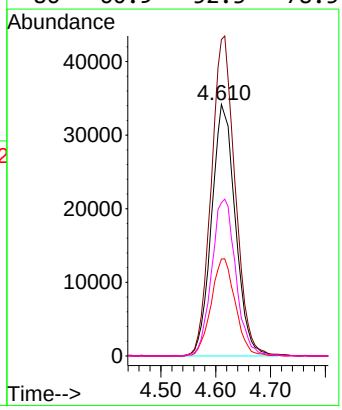
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

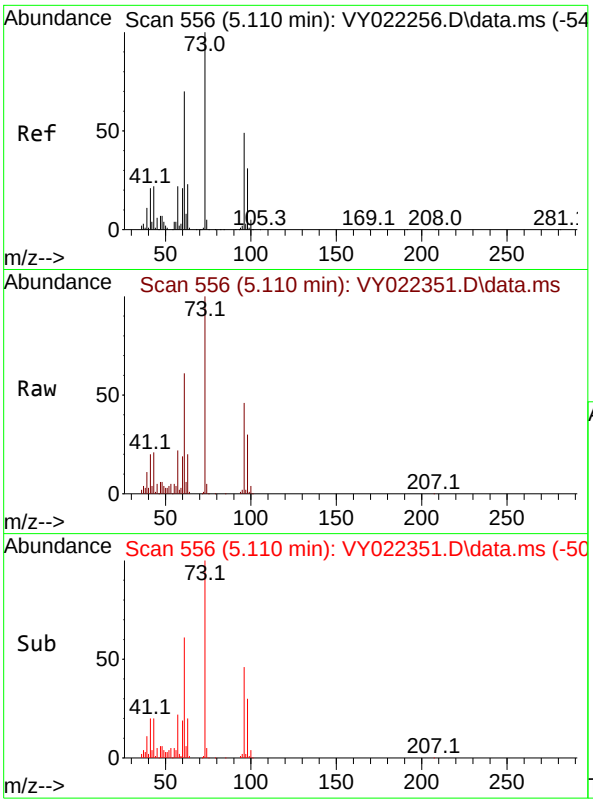



#20
Methylene Chloride
Concen: 66.122 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 84 Resp: 103093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 125.8 | 109.6 | 164.4 |
| 51 | 38.5 | 32.4 | 48.6 |
| 86 | 60.9 | 52.3 | 78.5 |

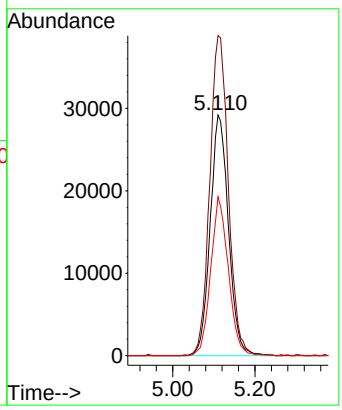





#21
trans-1,2-Dichloroethene
Concen: 64.882 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 96 Resp: 9019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.0 | 113.4 | 170.0 |
| 98 | 66.1 | 50.9 | 76.3 |




**Instrument :**
MSVOA_Y
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SS-11MSD

**Manual Integrations**
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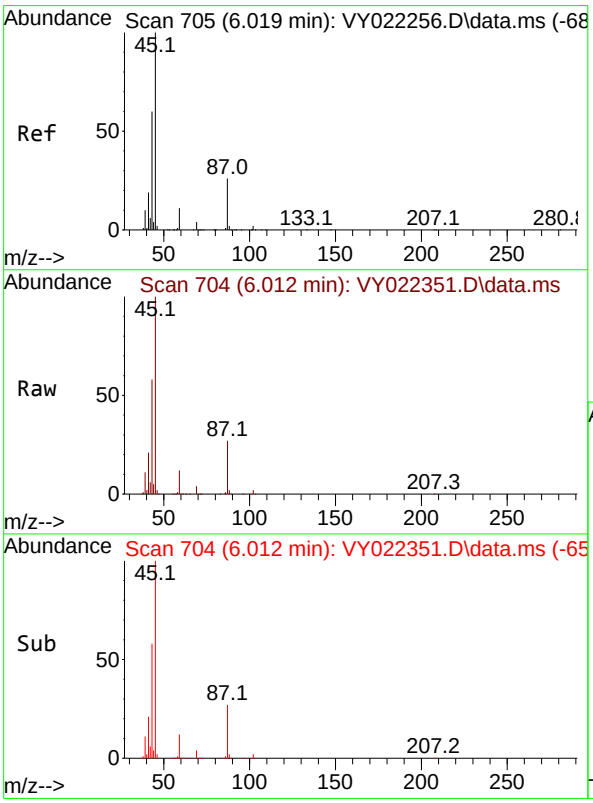
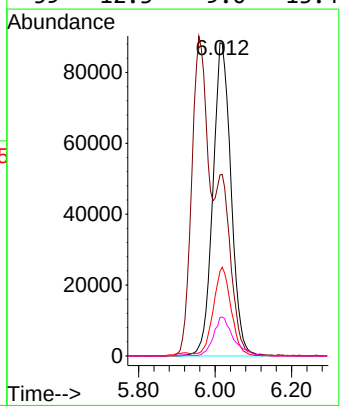
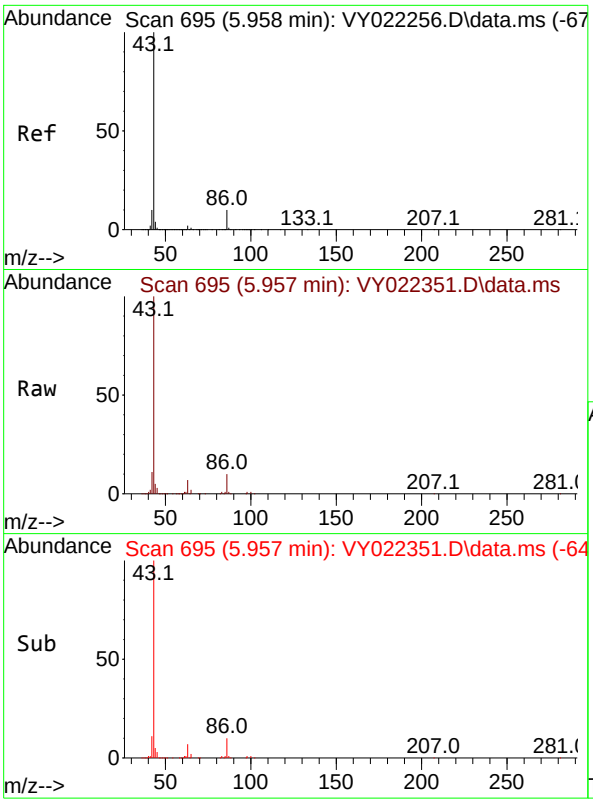



#22
Diisopropyl ether
Concen: 62.413 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 45 Resp: 291066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 57.4 | 48.2 | 72.2 |
| 87 | 27.0 | 21.4 | 32.0 |
| 59 | 12.3 | 9.0 | 13.4 |

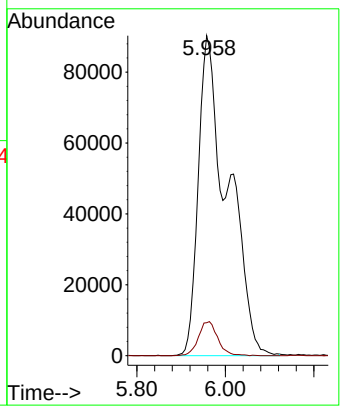





#23
Vinyl Acetate
Concen: 147.955 ug/l m
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 43 Resp: 41685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.3 | 7.8 | 11.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations**
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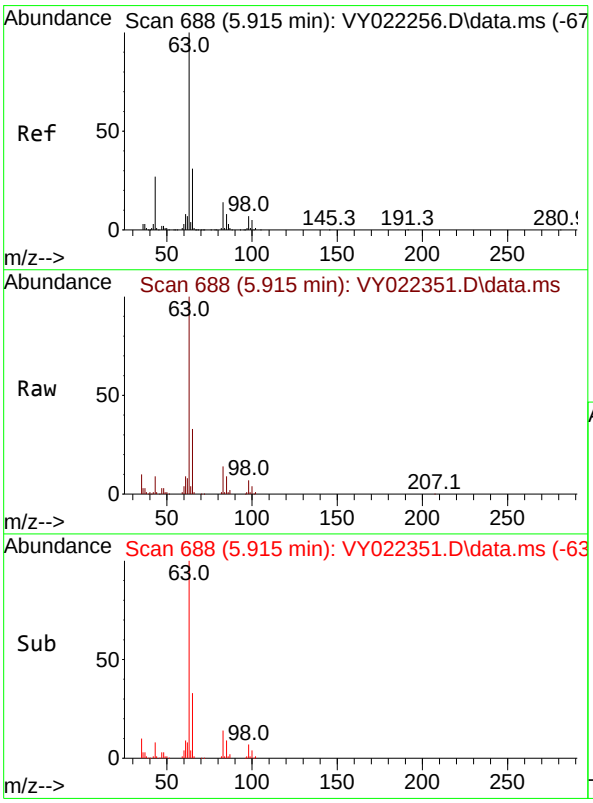
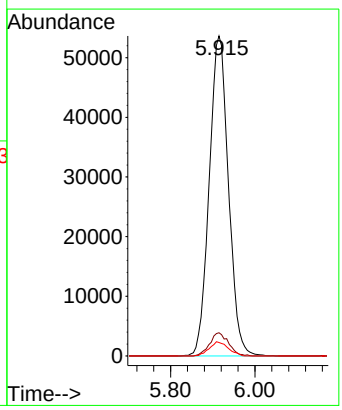
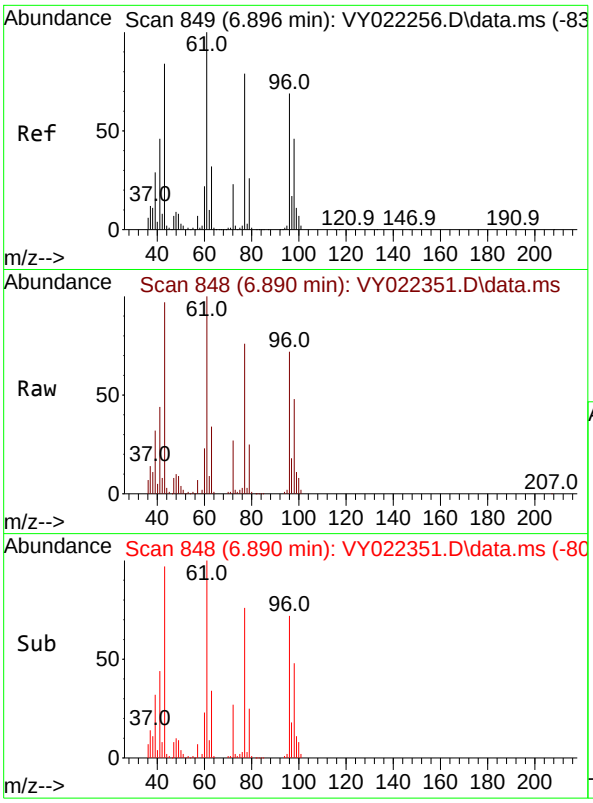



#24
1,1-Dichloroethane
Concen: 65.168 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 63 Resp: 169790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.3 | 3.5 | 10.5 |
| 100 | 4.2 | 2.4 | 7.2 |

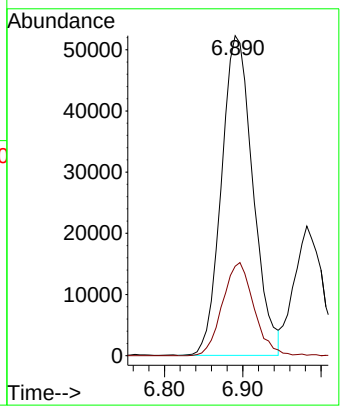





#25
2-Butanone
Concen: 361.733 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 43 Resp: 14599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.0 | 22.1 | 33.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations**
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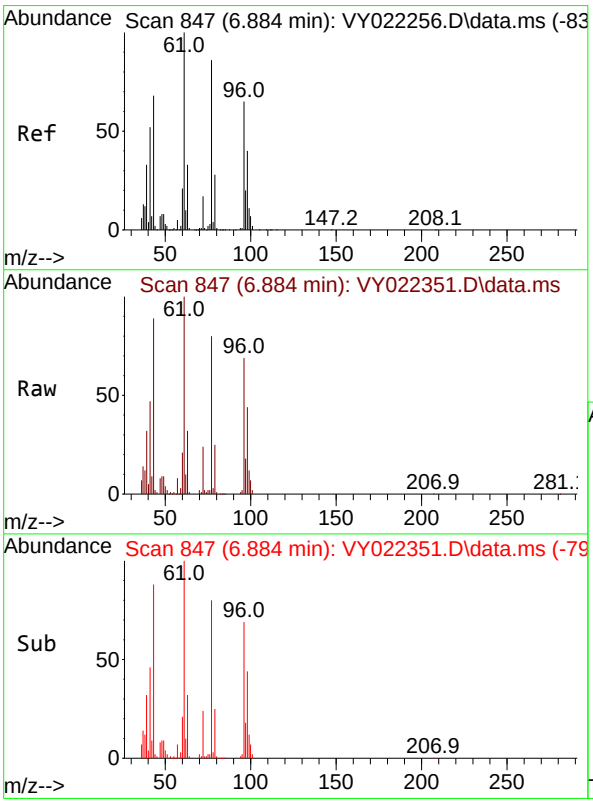
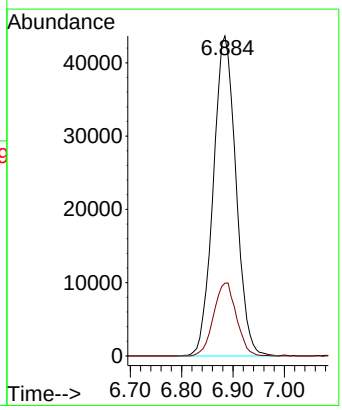
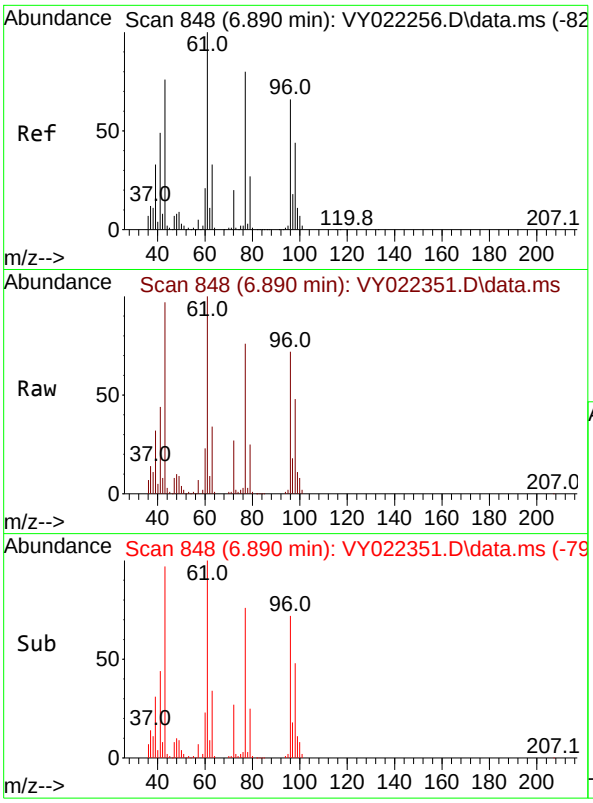



#26
2,2-Dichloropropane
Concen: 57.834 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 77 Resp: 134022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.9 | 11.2 | 33.5 |






#27
cis-1,2-Dichloroethene
Concen: 68.542 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 96 Resp: 10995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.9 | 0.0 | 302.6 |
| 98 | 63.4 | 0.0 | 128.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations**
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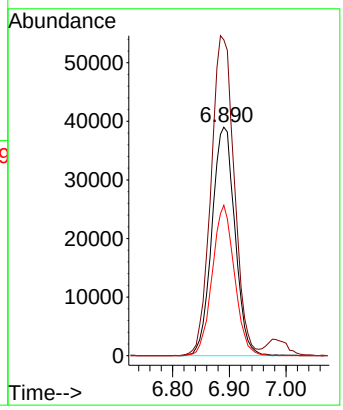
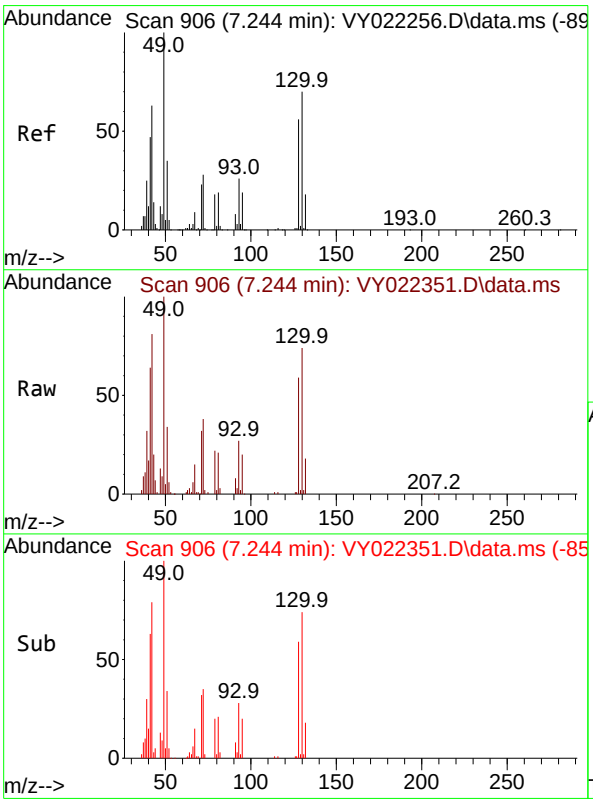
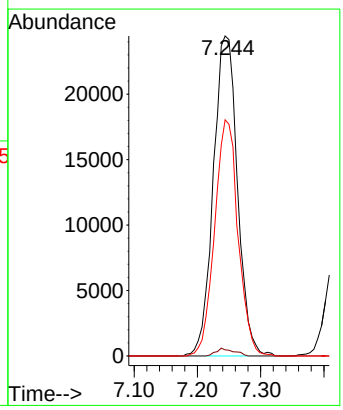


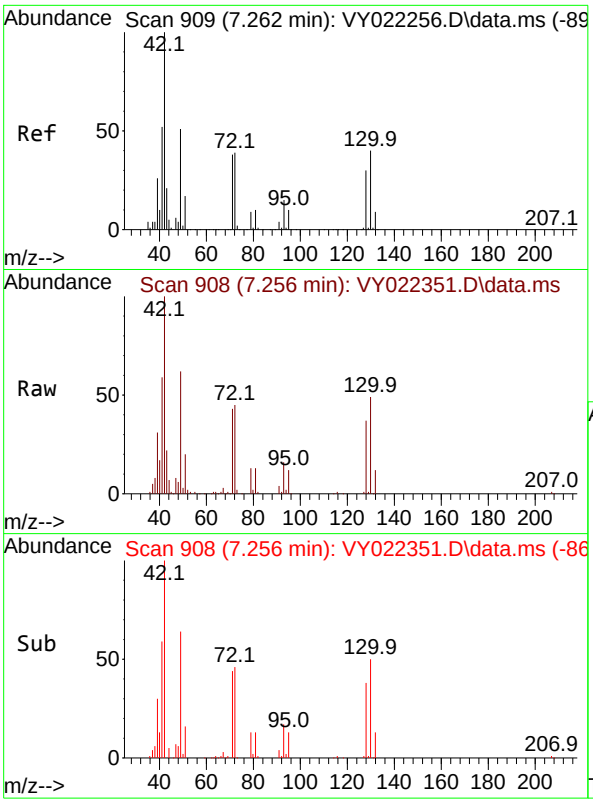




#28
Bromochloromethane
Concen: 58.214 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 49 Resp: 64696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 3.6 |
| 130 | 71.6 | 54.7 | 82.1 |






#29
Tetrahydrofuran
Concen: 338.510 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 42 Resp: 8789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.7 | 33.8 | 50.6 |
| 71 | 43.5 | 31.5 | 47.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

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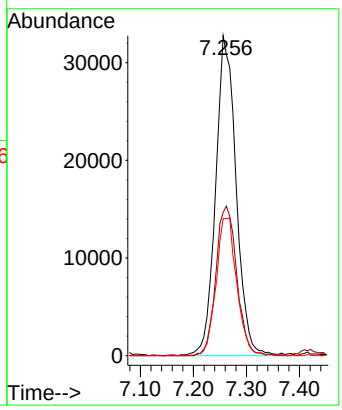
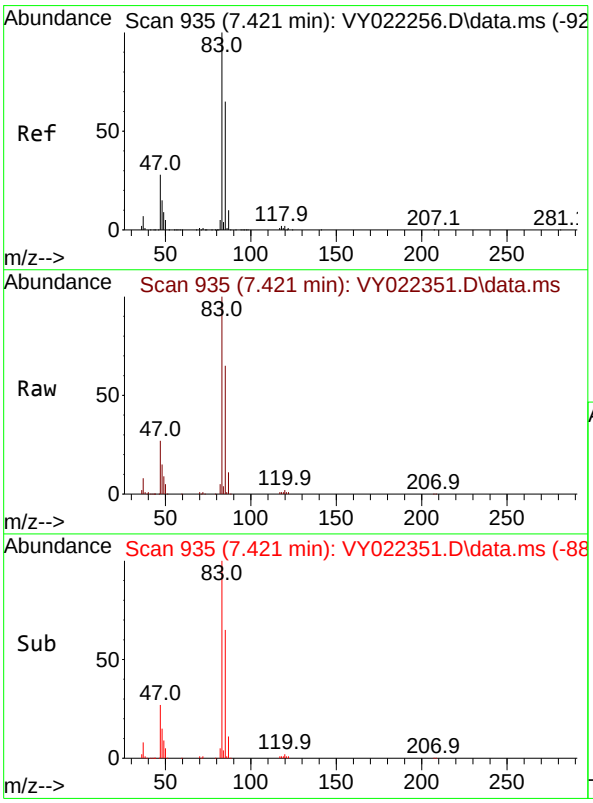
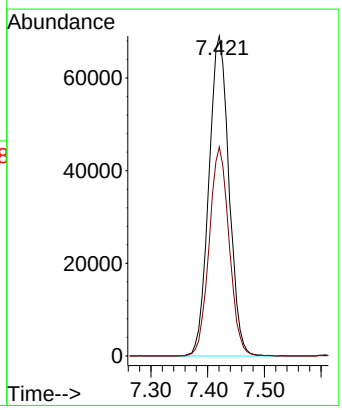


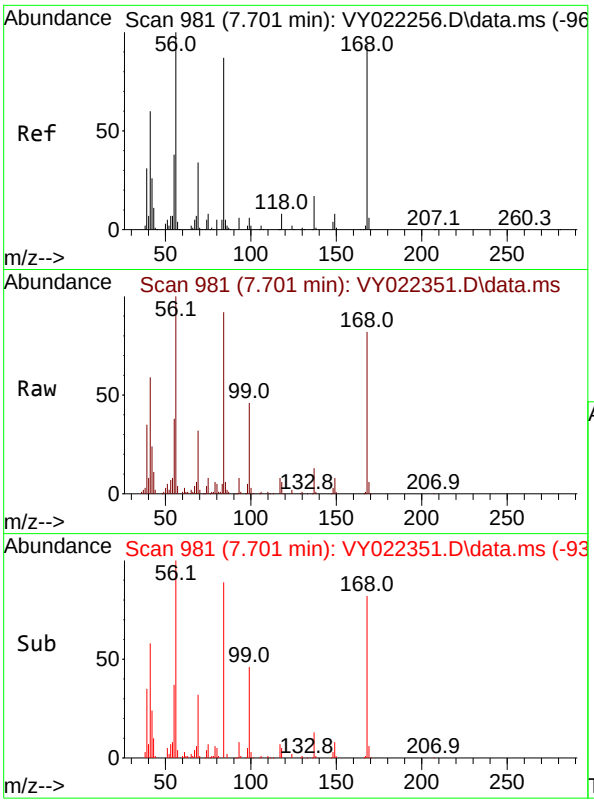




#30
Chloroform
Concen: 68.085 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 83 Resp: 170151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.3 | 51.8 | 77.8 |

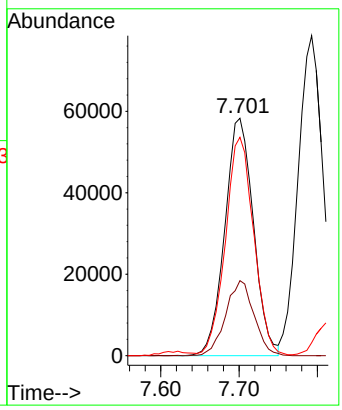





#31
Cyclohexane
Concen: 56.944 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 56 Resp: 14823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.5 | 27.4 | 41.2 |
| 84 | 90.3 | 70.0 | 105.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations**
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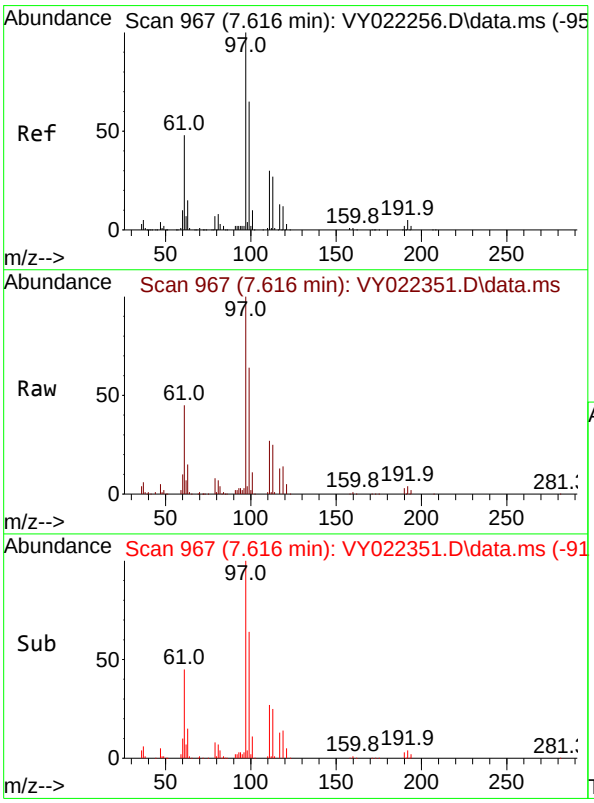
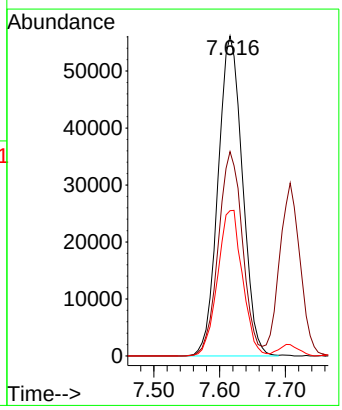
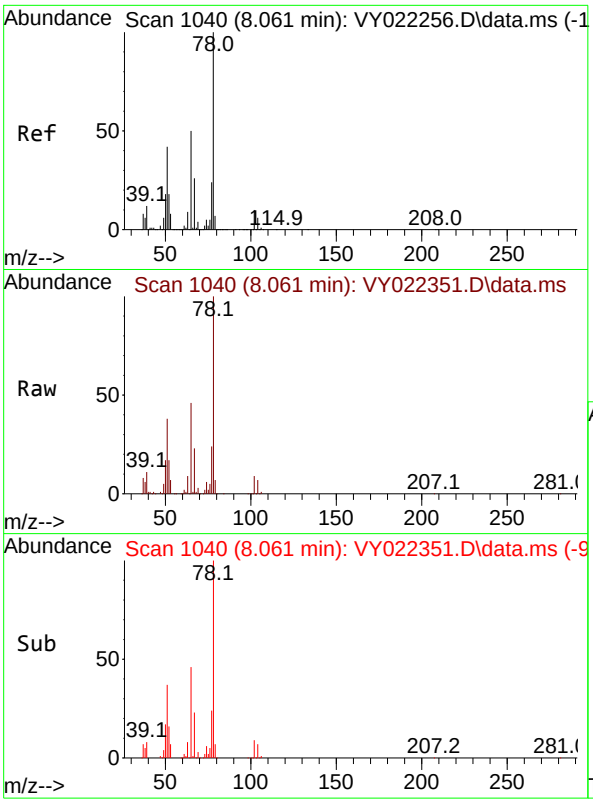



#32
1,1,1-Trichloroethane
Concen: 63.206 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 97 Resp: 144918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.5 | 51.4 | 77.0 |
| 61 | 46.5 | 38.1 | 57.1 |

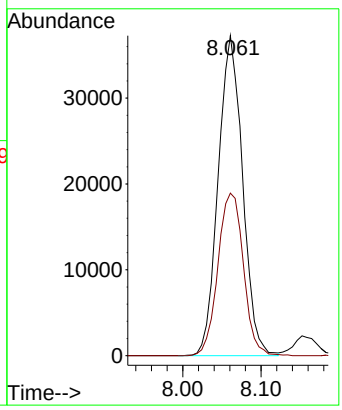





#33
1,2-Dichloroethane-d4
Concen: 62.714 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 65 Resp: 8070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.1 | 0.0 | 104.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations**
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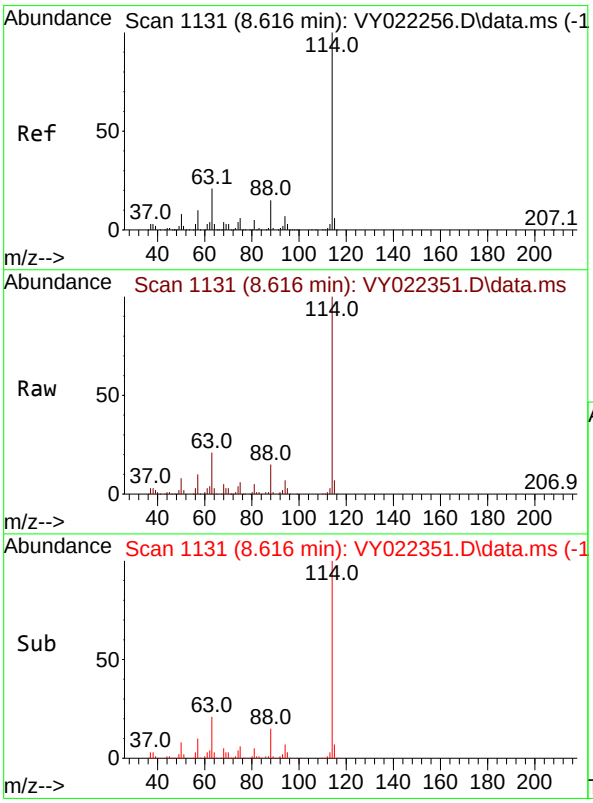
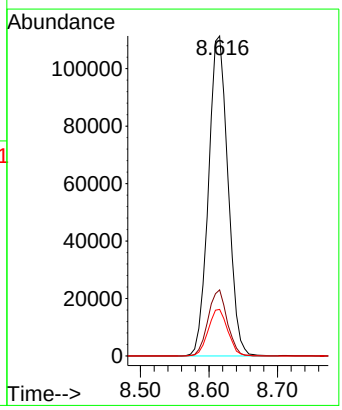
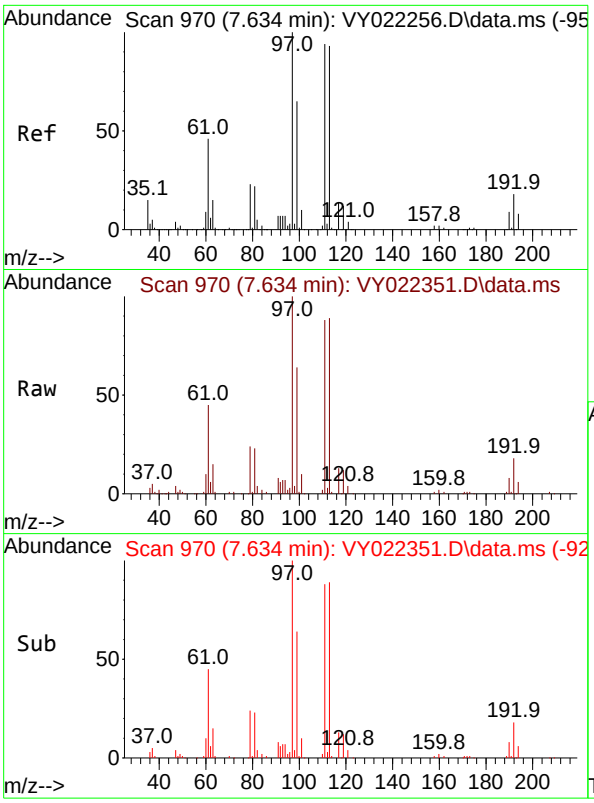



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:114 Resp: 220285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.6 | 0.0 | 41.0 |
| 88 | 14.5 | 0.0 | 29.4 |

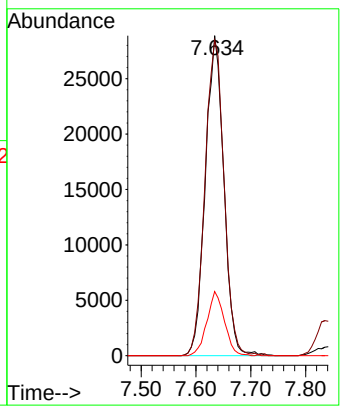





#35
Dibromofluoromethane
Concen: 51.299 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:113 Resp: 6744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.9 | 82.6 | 123.8 |
| 192 | 19.1 | 15.2 | 22.8 |




**Instrument :**
MSVOA_Y
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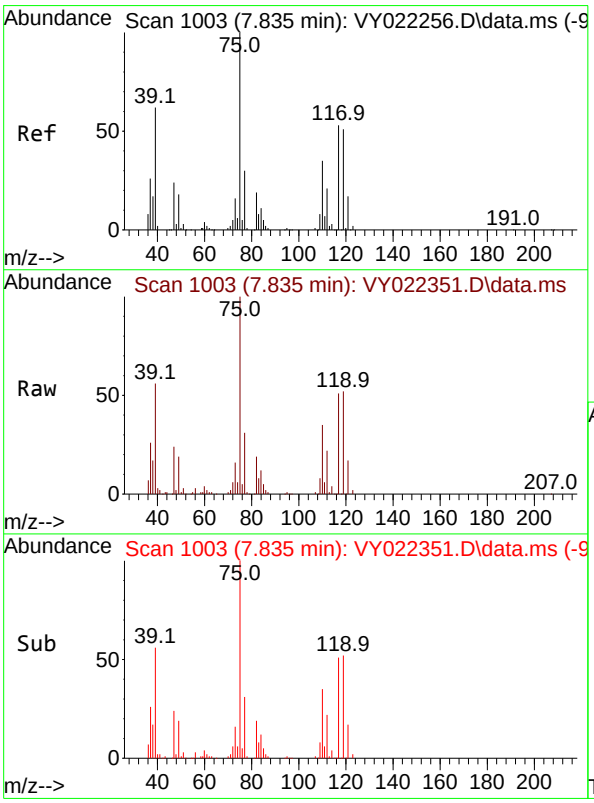
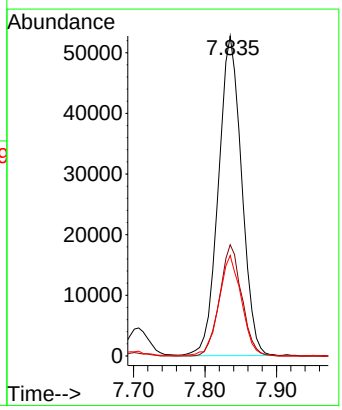
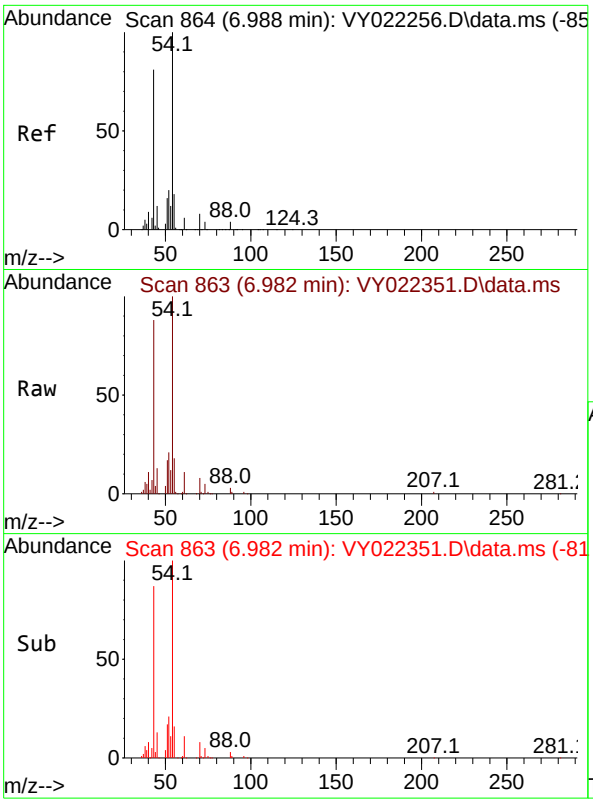



#36
1,1-Dichloropropene
Concen: 54.915 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 75 Resp: 118925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.1 | 16.6 | 49.8 |
| 77 | 30.7 | 24.6 | 37.0 |

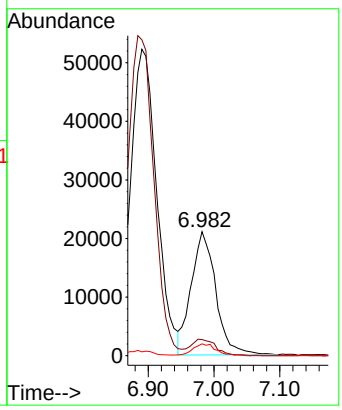





#37
Ethyl Acetate
Concen: 52.521 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 43 Resp: 5472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.8 | 10.2 | 15.2 |
| 70 | 9.1 | 7.6 | 11.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations**
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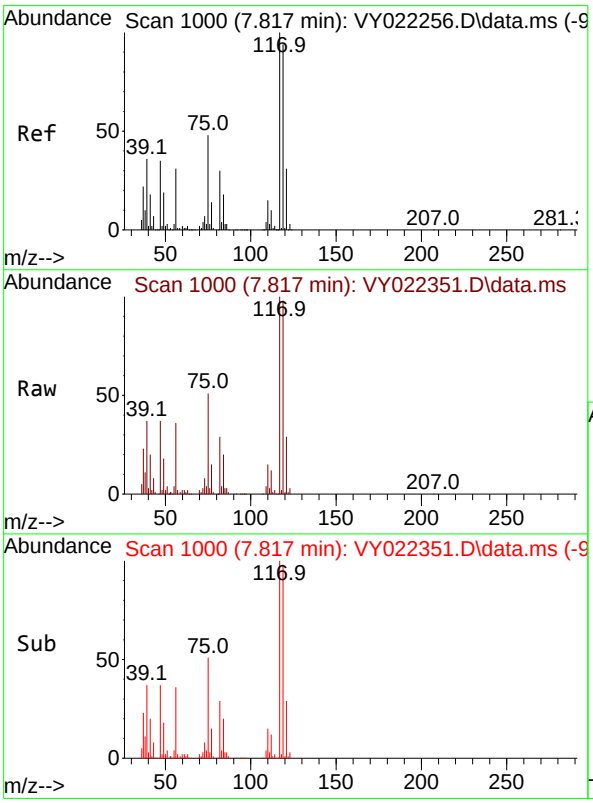
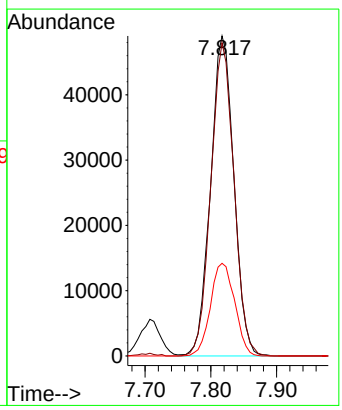
Supervised By :Semsettin Yesilyurt 05/21/2025

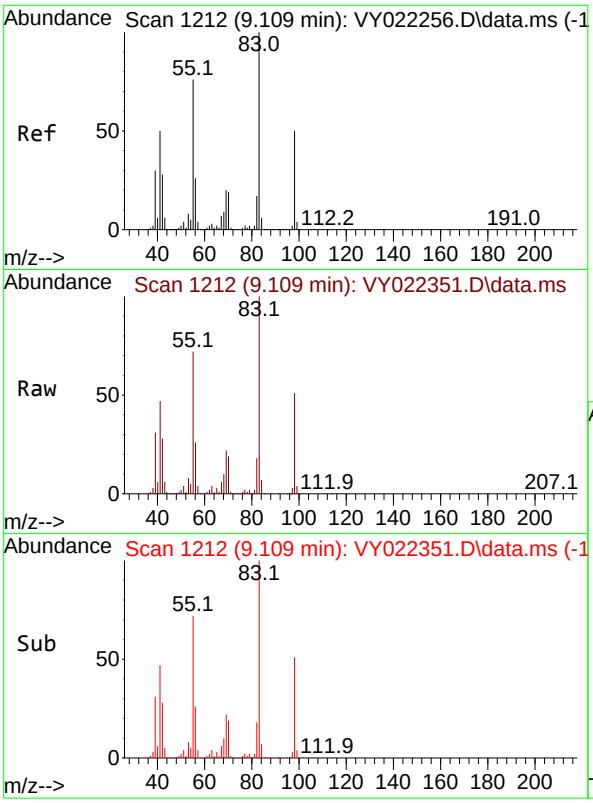



#38
Carbon Tetrachloride
Concen: 53.878 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:117 Resp: 120777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.9 | 75.3 | 112.9 |
| 121 | 28.9 | 24.7 | 37.1 |

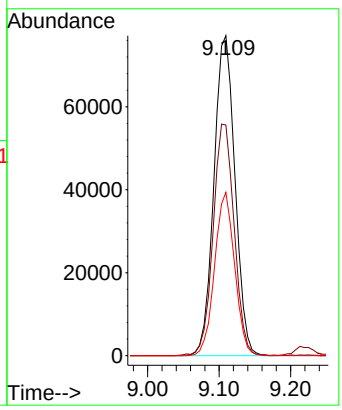





#39
Methylcyclohexane
Concen: 54.197 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 83 Resp: 15768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.0 | 60.6 | 90.8 |
| 98 | 51.1 | 40.0 | 60.0 |




**Instrument :**
MSVOA_Y
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SS-11MSD

**Manual Integrations**
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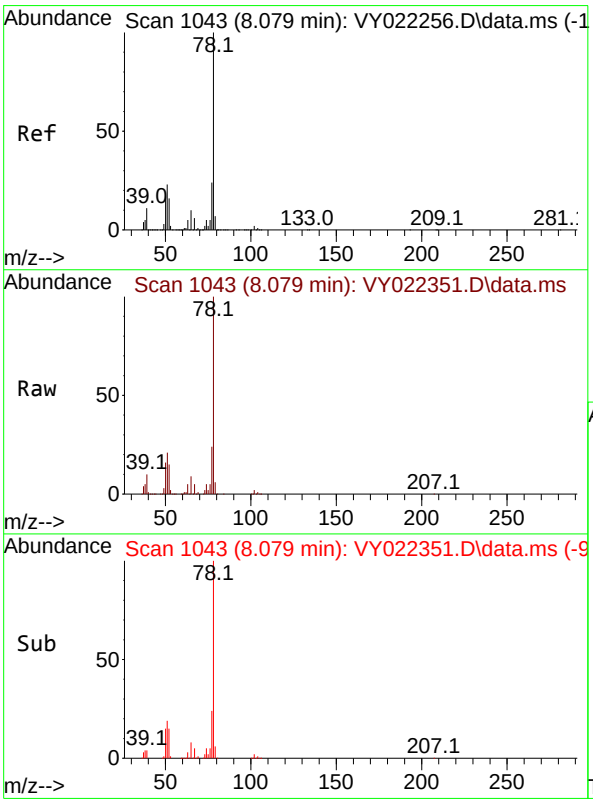
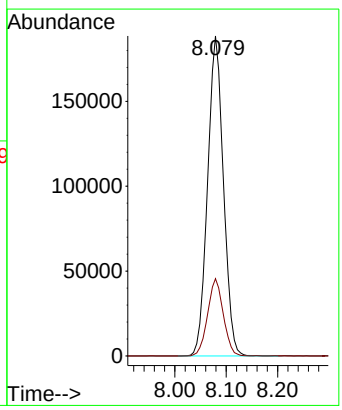
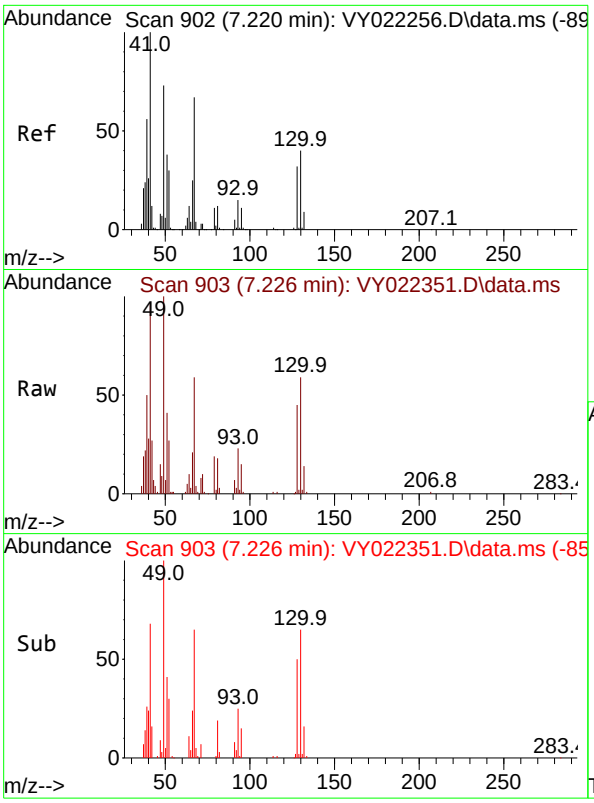



#40
Benzene
Concen: 62.767 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 78 Resp: 402961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.2 | 18.9 | 28.3 |

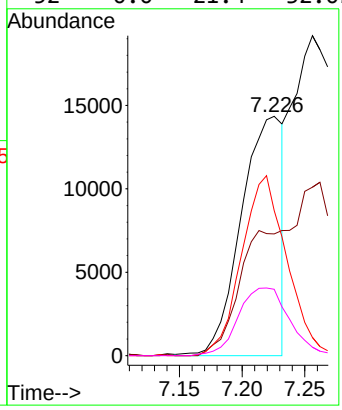





#41
Methacrylonitrile
Concen: 48.036 ug/l m
RT: 7.226 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 41 Resp: 3320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 139.0 | 39.1 | 58.7# |
| 67 | 0.0 | 47.1 | 70.7# |
| 52 | 0.0 | 21.4 | 32.0# |




**Instrument :**
MSVOA_Y
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SS-11MSD

**Manual Integrations**
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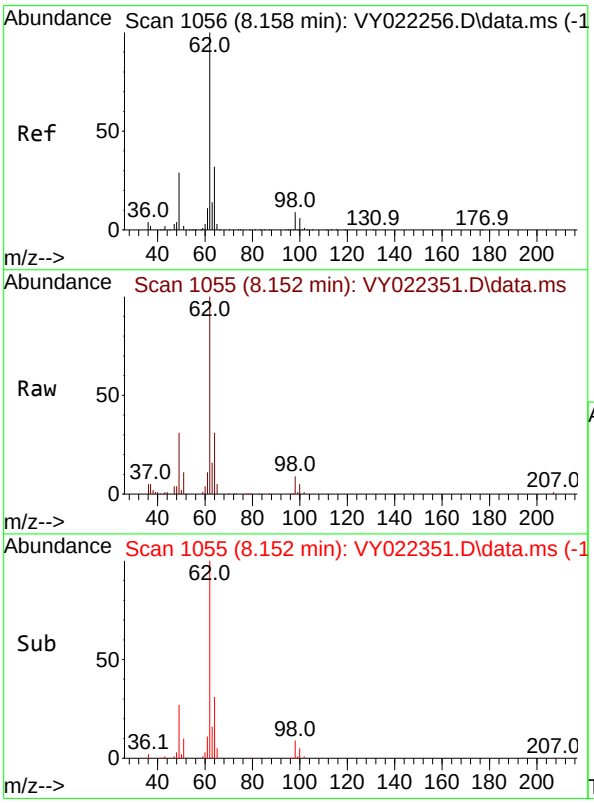
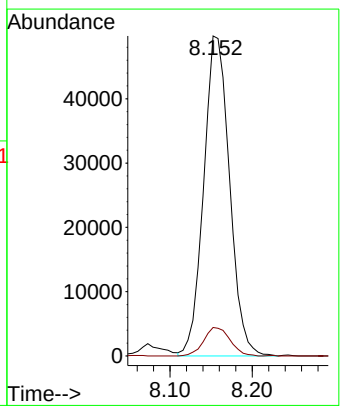
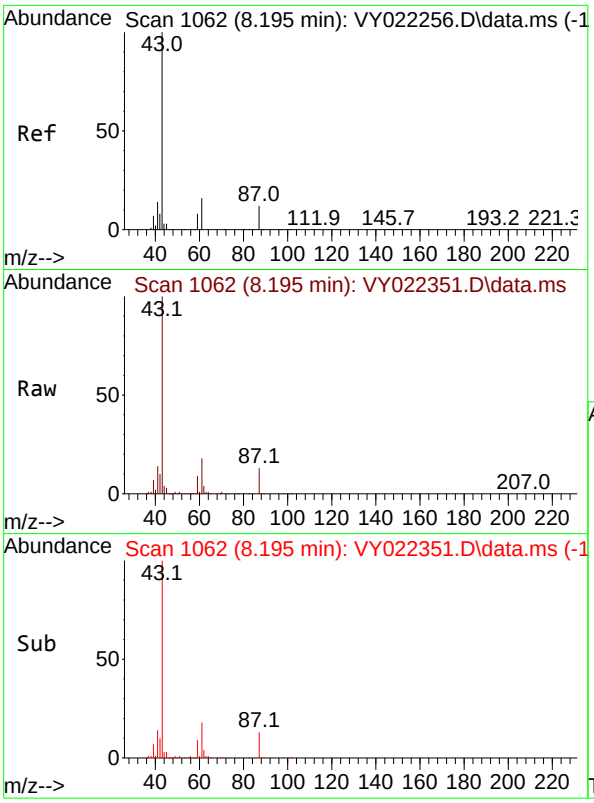



#42
1,2-Dichloroethane
Concen: 62.721 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 62 Resp: 108892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.1 | 0.0 | 18.4 |






#43
Isopropyl Acetate
Concen: 55.601 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 43 Resp: 12635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 19.0 | 15.1 | 22.7 |
| 87 | 12.8 | 9.7 | 14.5 |

**Instrument :**
MSVOA_Y
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SS-11MSD

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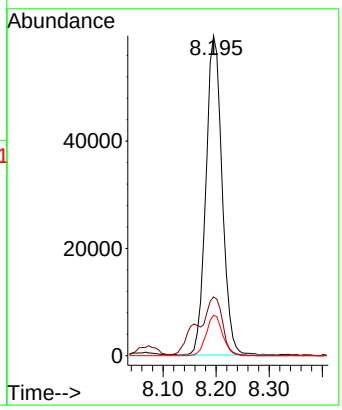
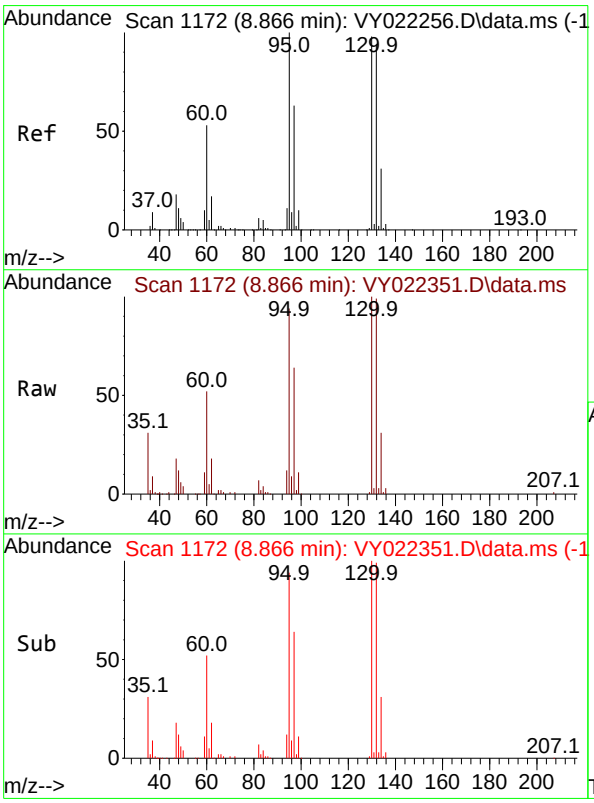
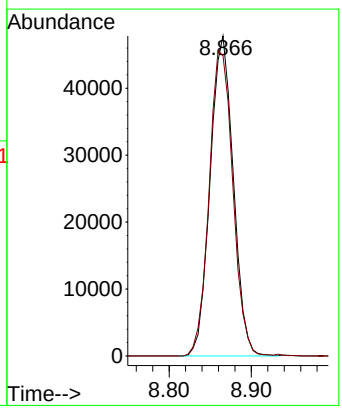


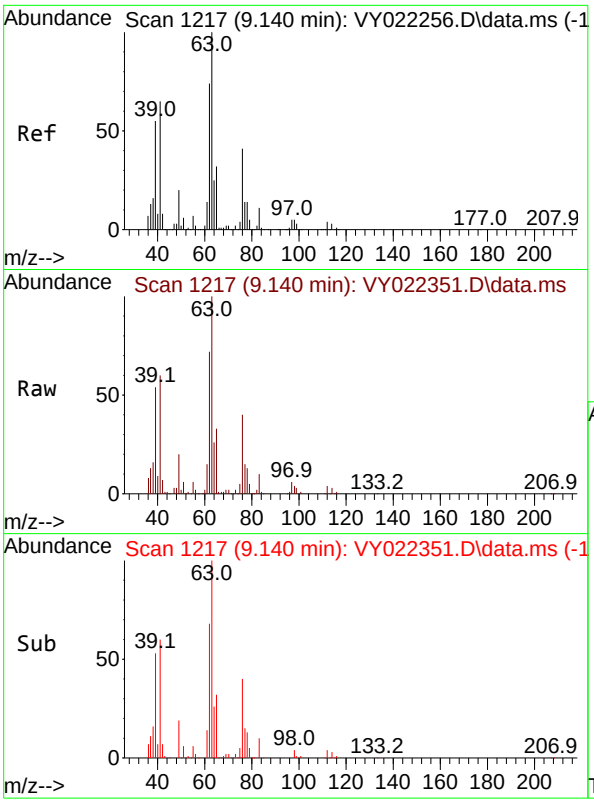




#44
Trichloroethene
Concen: 58.482 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:130 Resp: 93355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 93.9 | 0.0 | 204.8 |

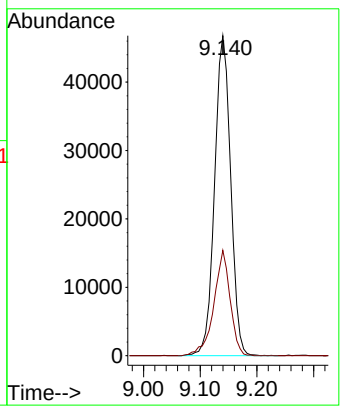





#45
1,2-Dichloropropane
Concen: 59.576 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 63 Resp: 9221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.9 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
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SS-11MSD

**Manual Integrations**
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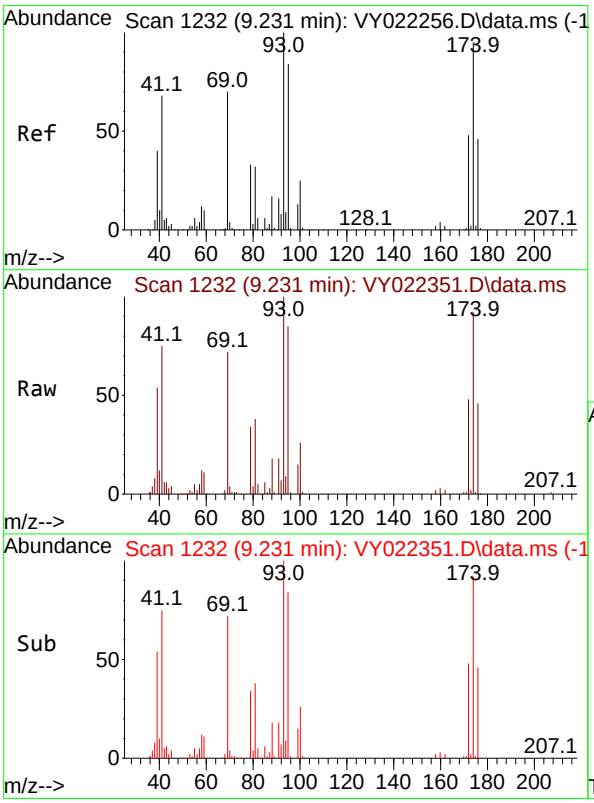
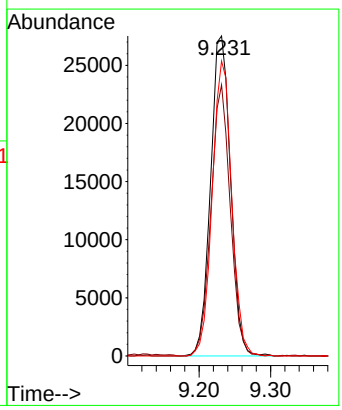
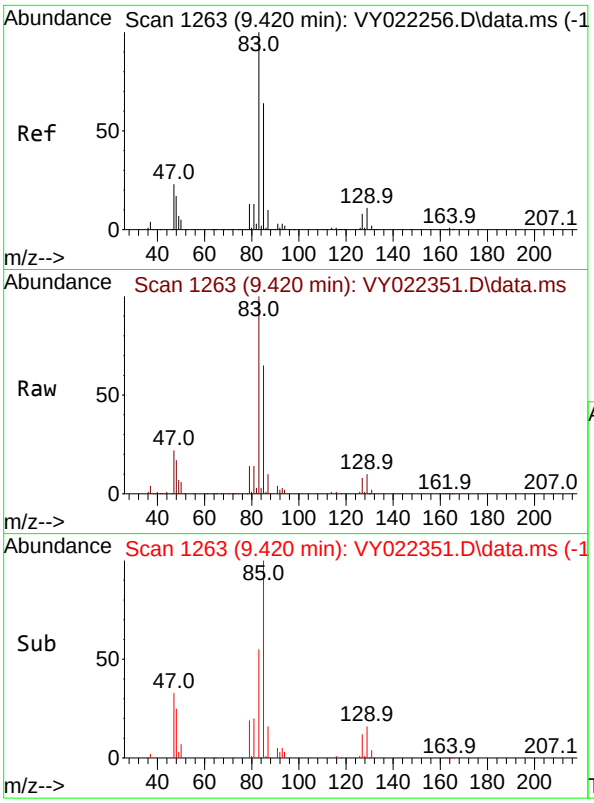



#46
Dibromomethane
Concen: 64.149 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 93 Resp: 53553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.7 | 65.2 | 97.8 |
| 174 | 89.6 | 74.3 | 111.5 |

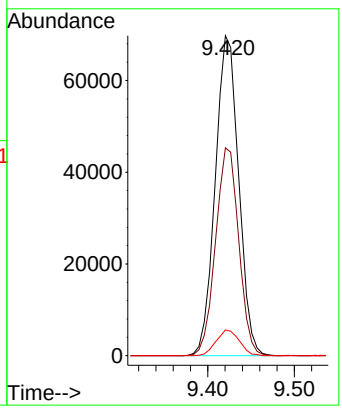





#47
Bromodichloromethane
Concen: 60.501 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 83 Resp: 13102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.0 | 51.1 | 76.7 |
| 127 | 8.0 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
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**Manual Integrations**
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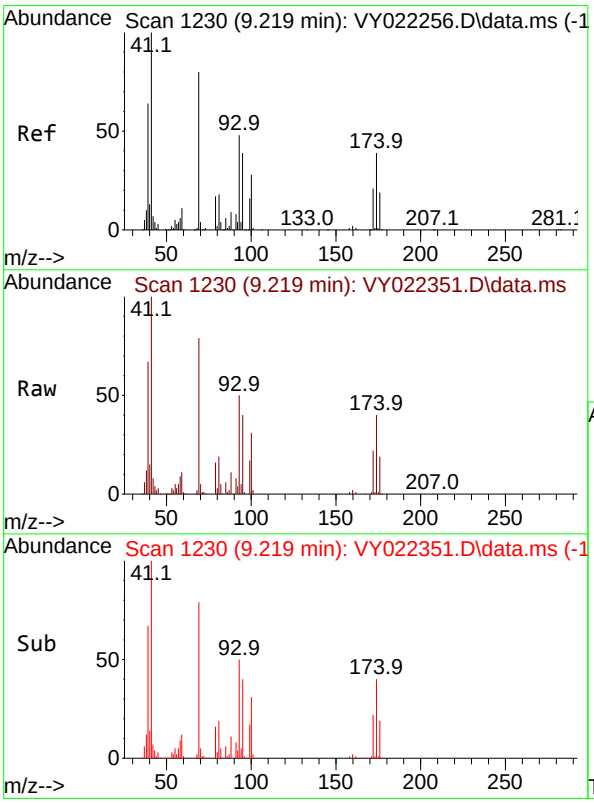
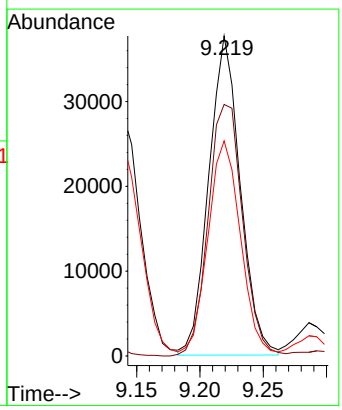
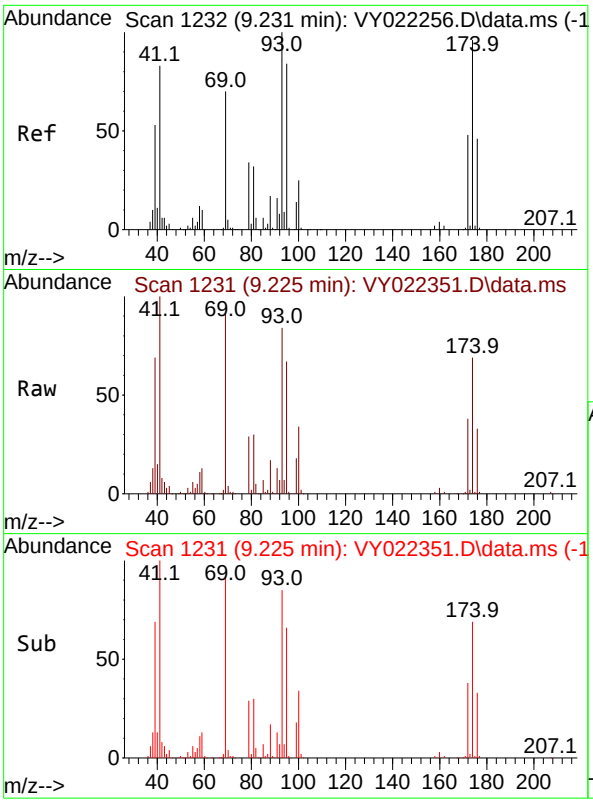



#48
Methyl methacrylate
Concen: 61.301 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 41 Resp: 65146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 86.3 | 63.5 | 95.3 |
| 39 | 67.3 | 50.8 | 76.2 |

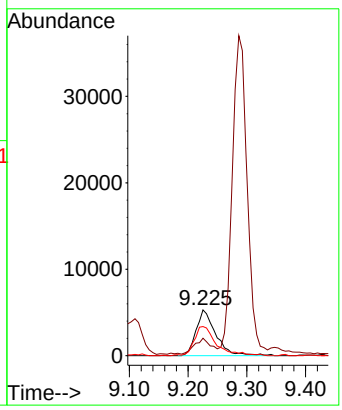





#49
1,4-Dioxane
Concen: 1306.545 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 88 Resp: 1232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 28.4 | 28.5 | 42.7 |
| 58 | 71.4 | 61.4 | 92.2 |




**Instrument :**
MSVOA_Y
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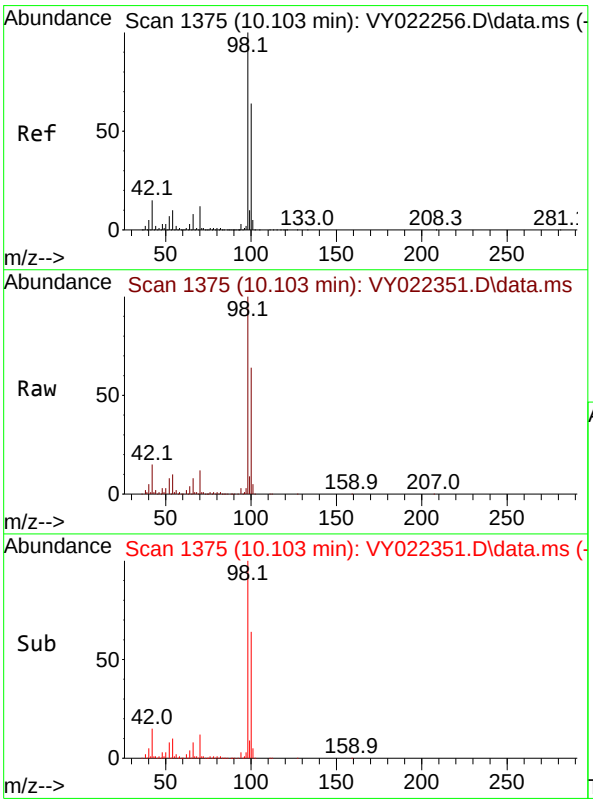
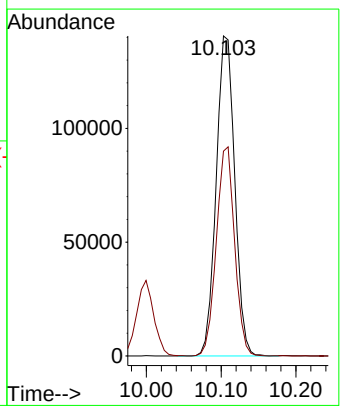
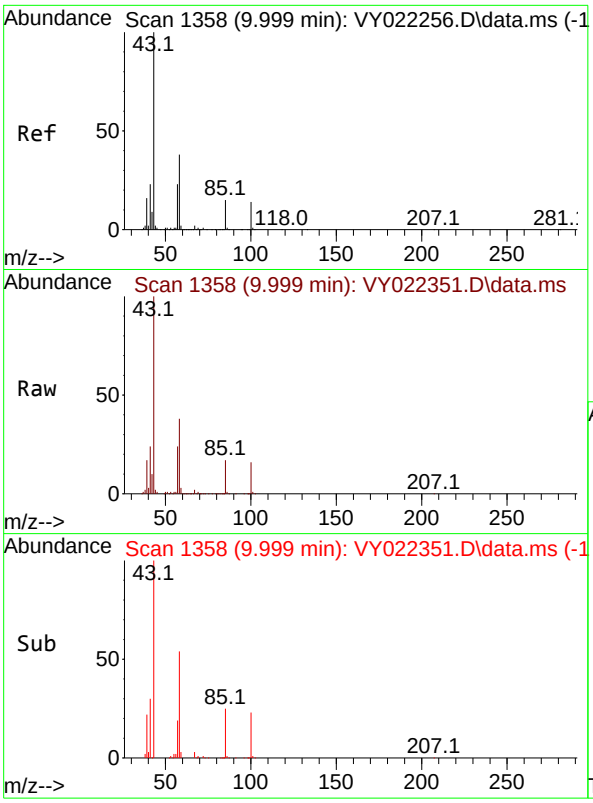



#50
Toluene-d8
Concen: 45.135 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 98 Resp: 243044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.5 | 51.8 | 77.8 |

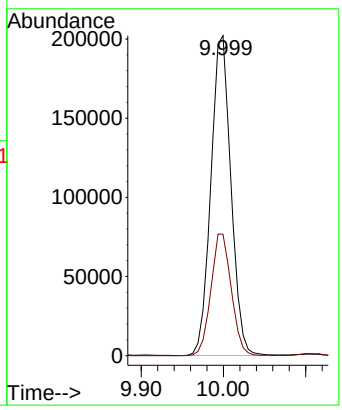





#51
4-Methyl-2-Pentanone
Concen: 307.999 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 43 Resp: 34342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.7 | 29.4 | 44.2 |




**Instrument :**
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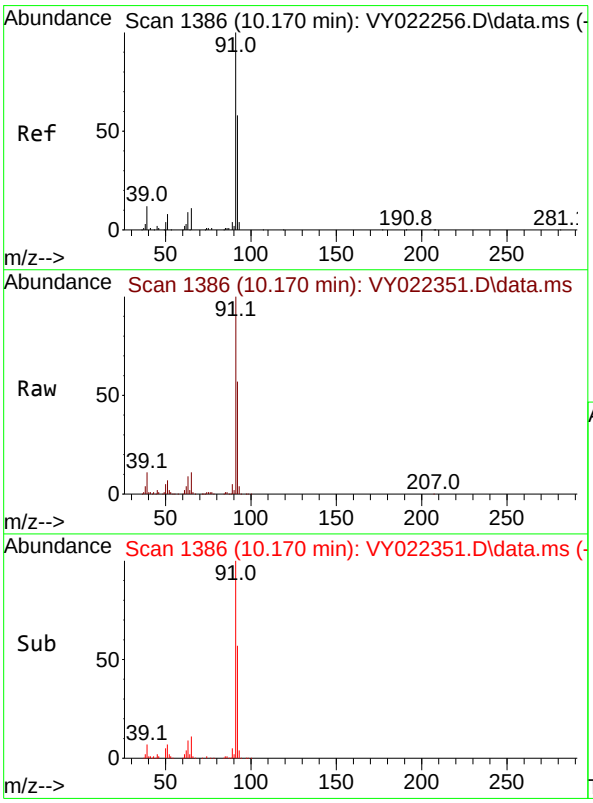
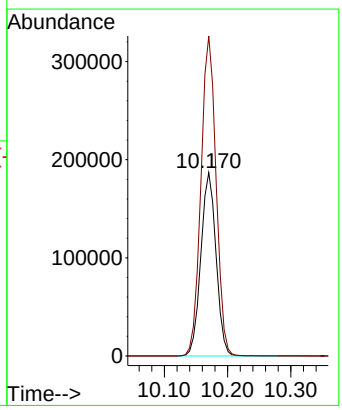
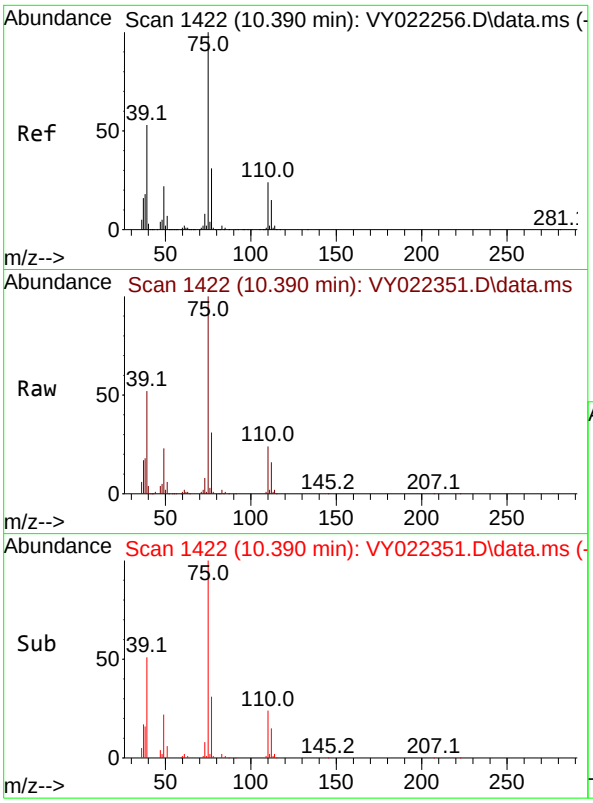



#52
Toluene
Concen: 76.740 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 92 Resp: 311976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.4 | 139.1 | 208.7 |

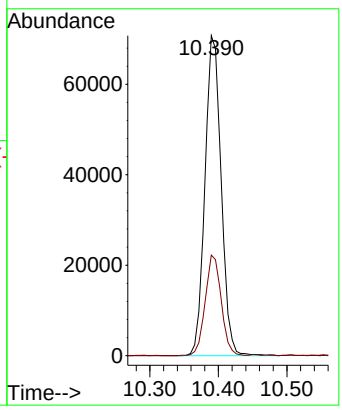





#53
t-1,3-Dichloropropene
Concen: 55.135 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 75 Resp: 11653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.5 | 25.0 | 37.6 |

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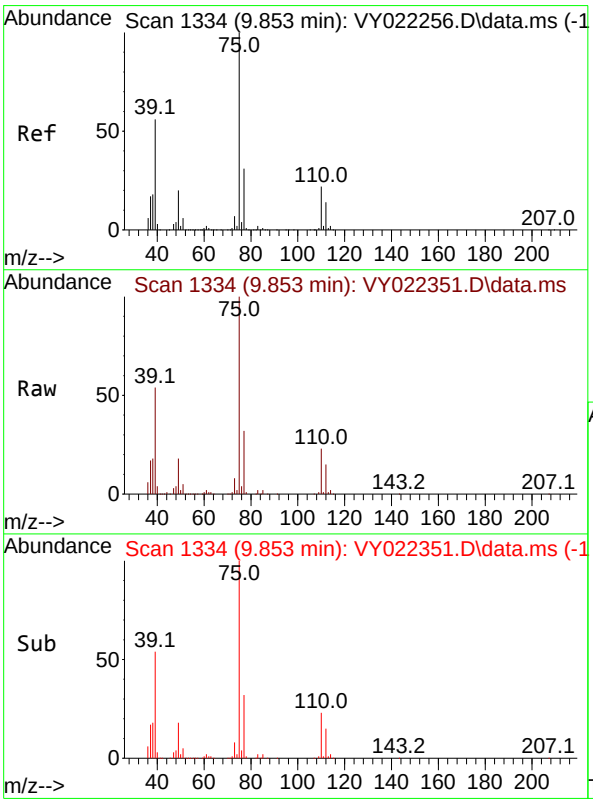
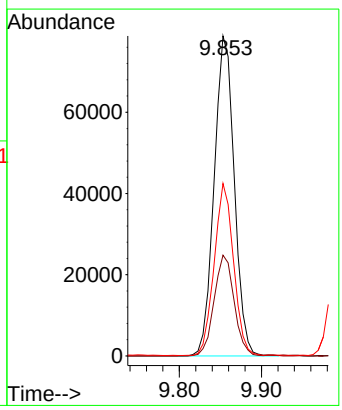
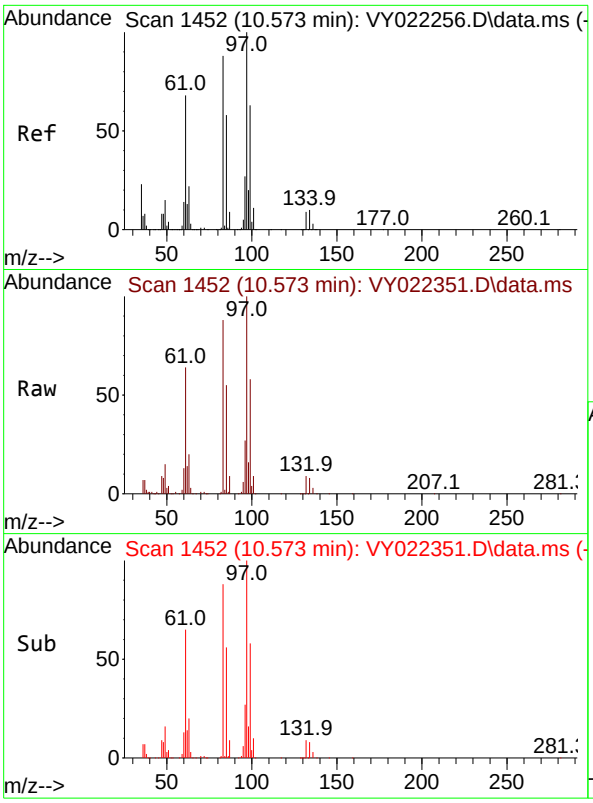



#54
cis-1,3-Dichloropropene
Concen: 55.258 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 75 Resp: 133810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.5 | 25.1 | 37.7 |
| 39 | 53.8 | 44.5 | 66.7 |

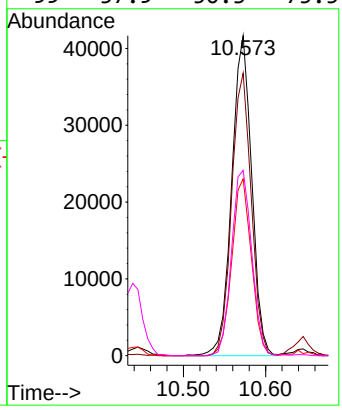





#55
1,1,2-Trichloroethane
Concen: 65.859 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 97 Resp: 7040

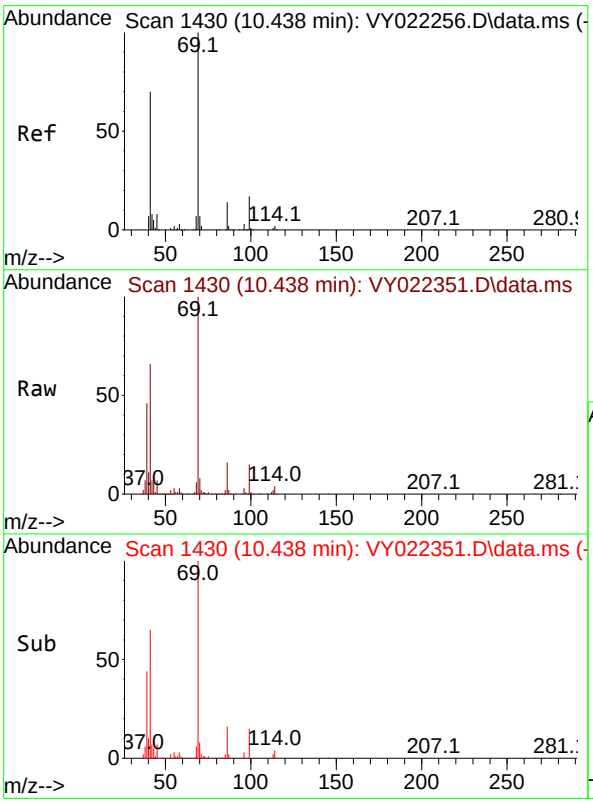
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.3 | 70.3 | 105.5 |
| 85 | 55.3 | 46.2 | 69.4 |
| 99 | 57.9 | 50.3 | 75.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations APPROVED**

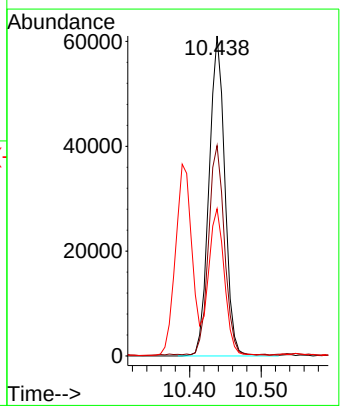
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

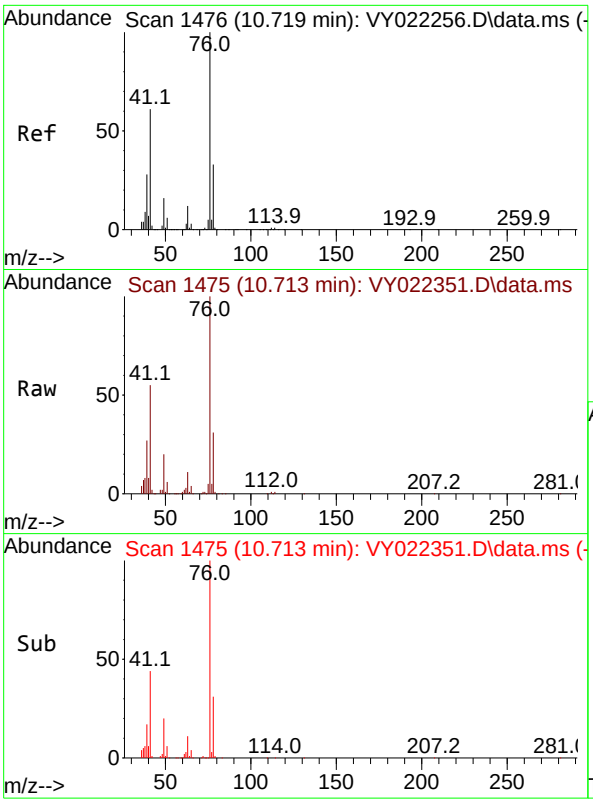



#56
Ethyl methacrylate
Concen: 56.302 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 69 Resp: 93754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 65.8 | 56.5 | 84.7 |
| 39 | 45.7 | 37.1 | 55.7 |

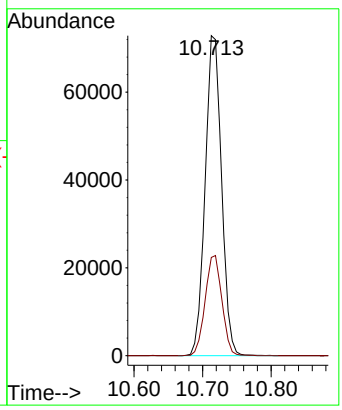





#57
1,3-Dichloropropane
Concen: 63.793 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 76 Resp: 12116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.1 | 25.8 | 38.8 |




**Instrument :**
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**Manual Integrations**
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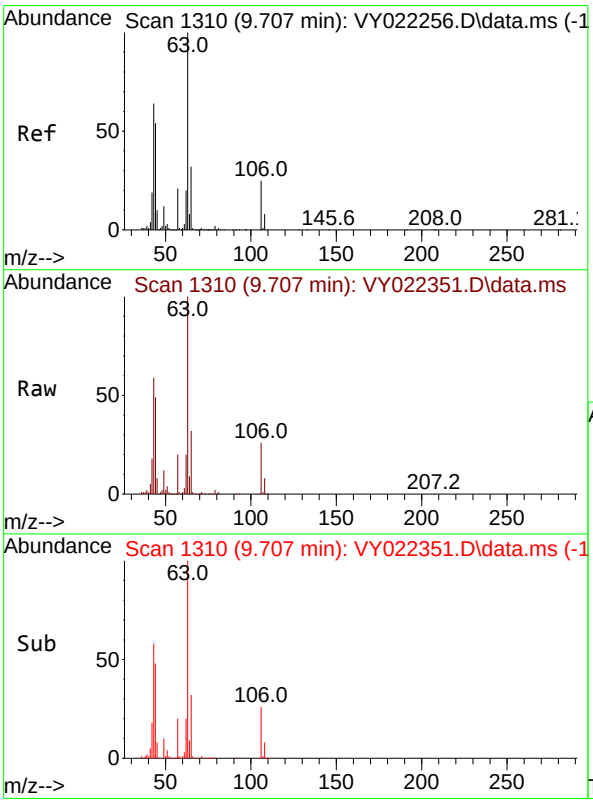
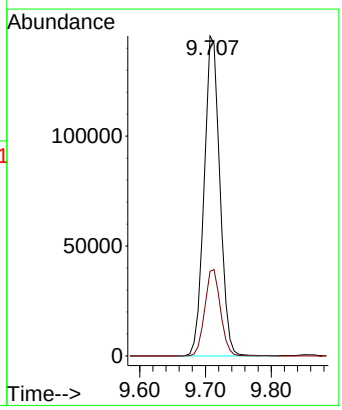
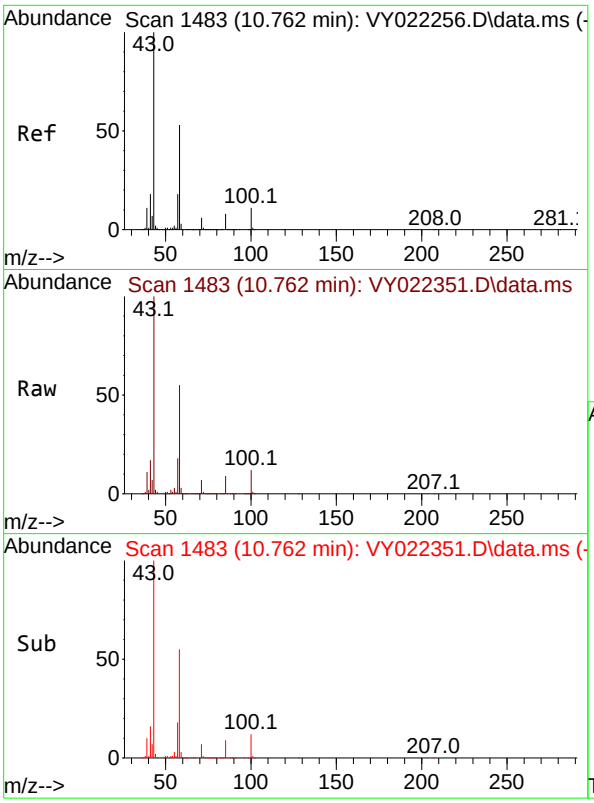



#58
2-Chloroethyl Vinyl ether
Concen: 324.368 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 63 Resp: 242440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.0 | 21.0 | 31.4 |






#59
2-Hexanone
Concen: 312.547 ug/l
RT: 10.762 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 43 Resp: 23366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.6 | 26.1 | 78.3 |

**Instrument :**
MSVOA_Y
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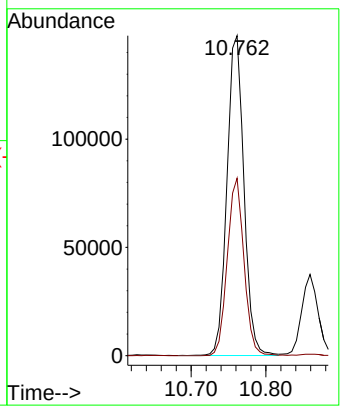
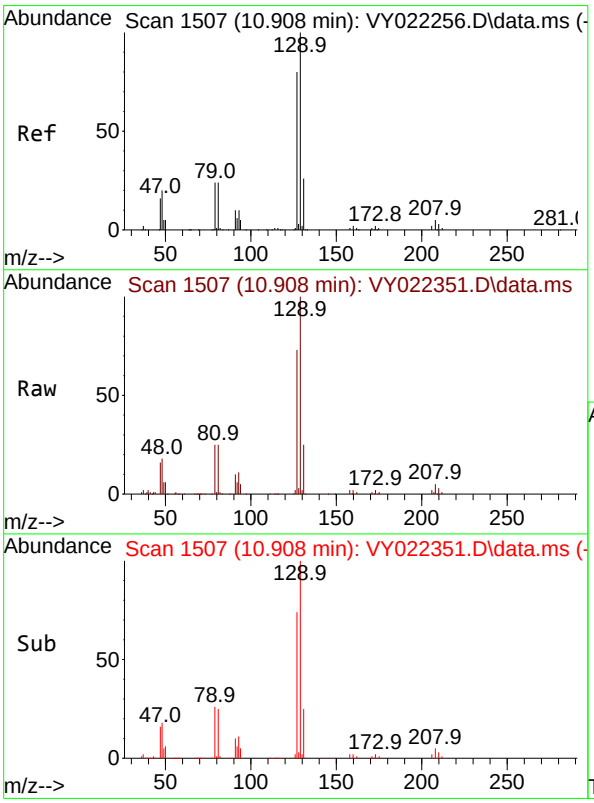
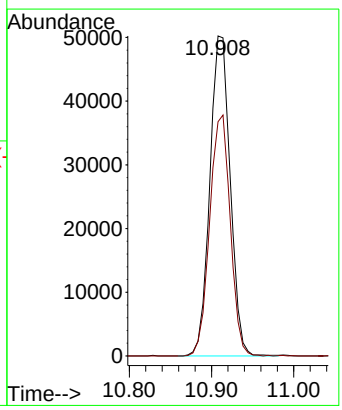


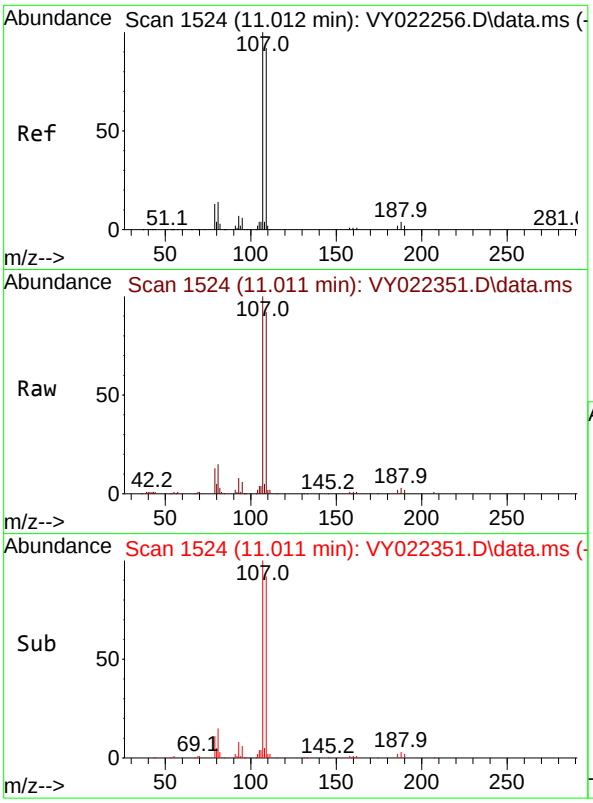




#60
Dibromochloromethane
Concen: 62.093 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:129 Resp: 86156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.2 | 38.6 | 115.7 |

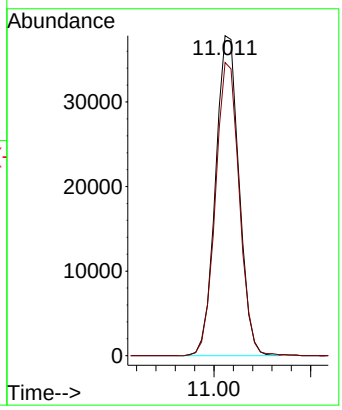





#61
1,2-Dibromoethane
Concen: 63.913 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:107 Resp: 6368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.0 | 74.6 | 111.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations**
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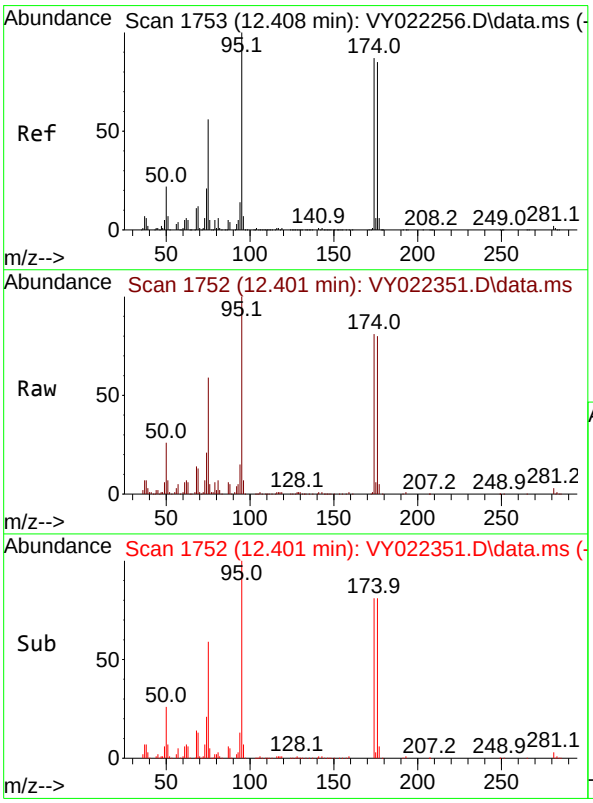
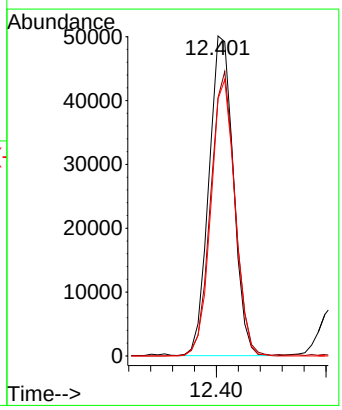
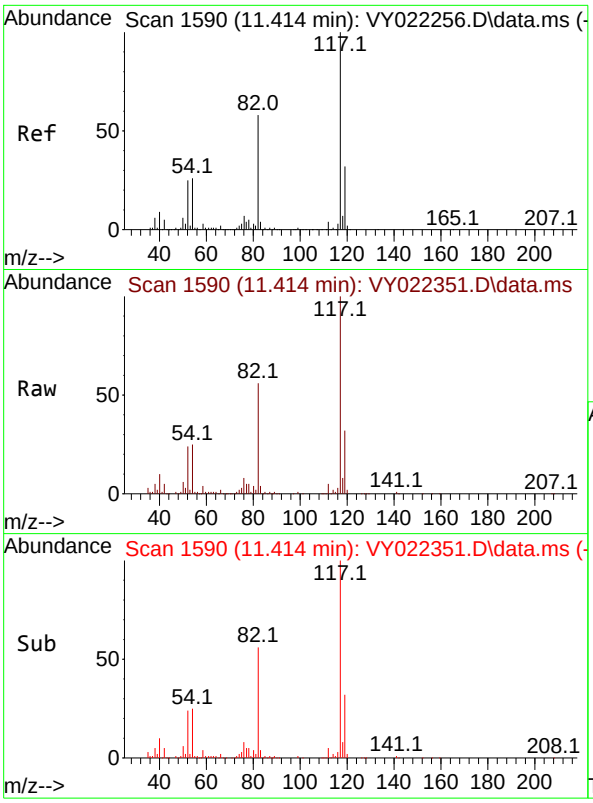



#62
4-Bromofluorobenzene
Concen: 45.444 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 95 Resp: 77563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 88.7 | 0.0 | 166.8 |
| 176 | 84.9 | 0.0 | 160.8 |

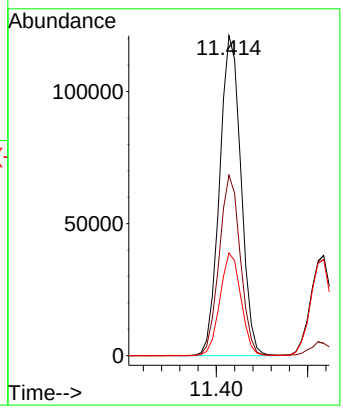





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:117 Resp: 19729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.3 | 46.6 | 70.0 |
| 119 | 32.1 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
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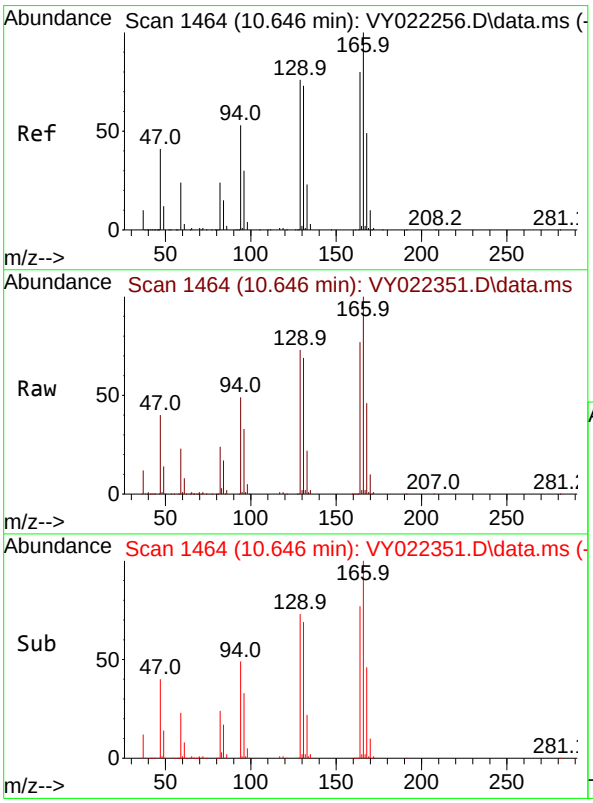
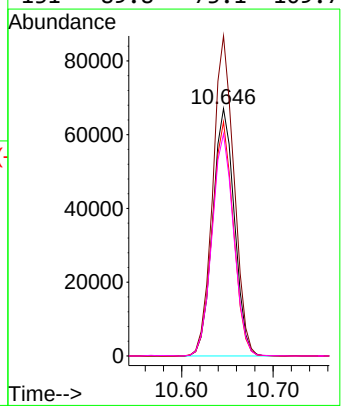
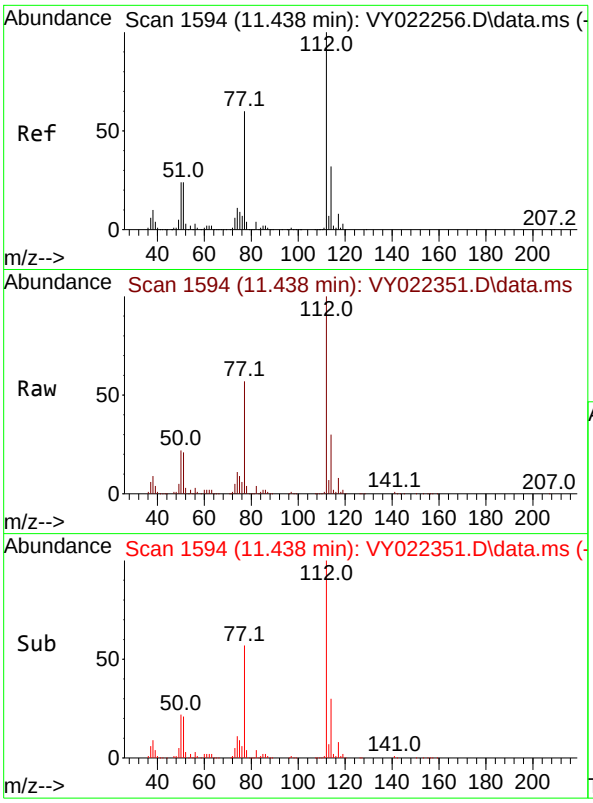



#64
Tetrachloroethene
Concen: 60.588 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:164 Resp: 110490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 129.4 | 100.4 | 150.6 |
| 129 | 94.7 | 76.4 | 114.6 |
| 131 | 89.8 | 73.1 | 109.7 |

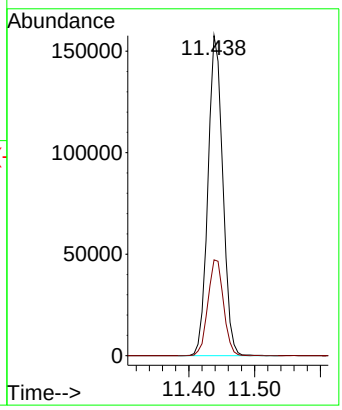





#65
Chlorobenzene
Concen: 55.496 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:112 Resp: 24702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 29.9 | 25.8 | 38.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations**
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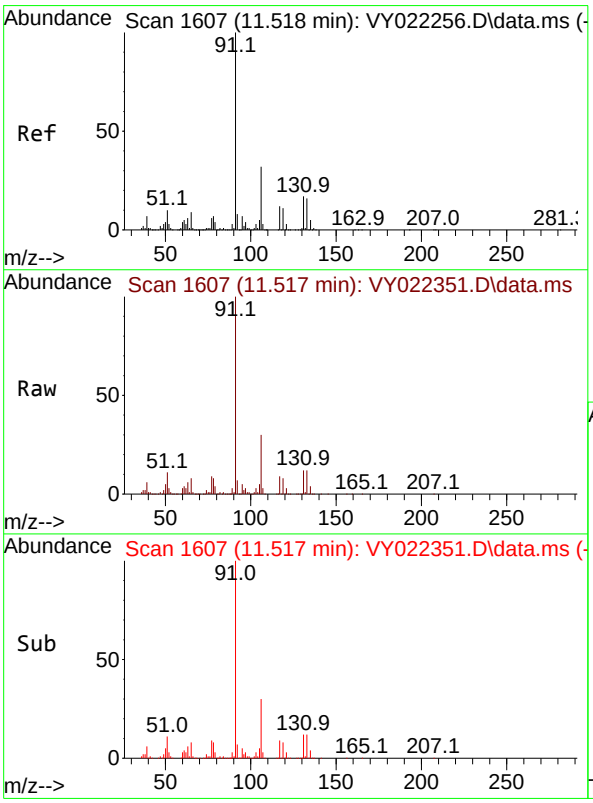
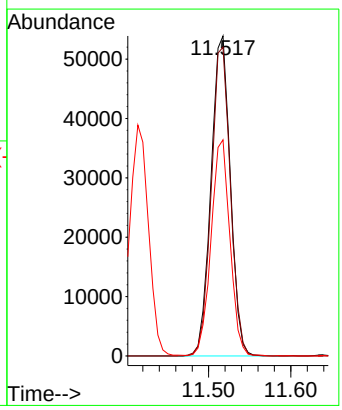
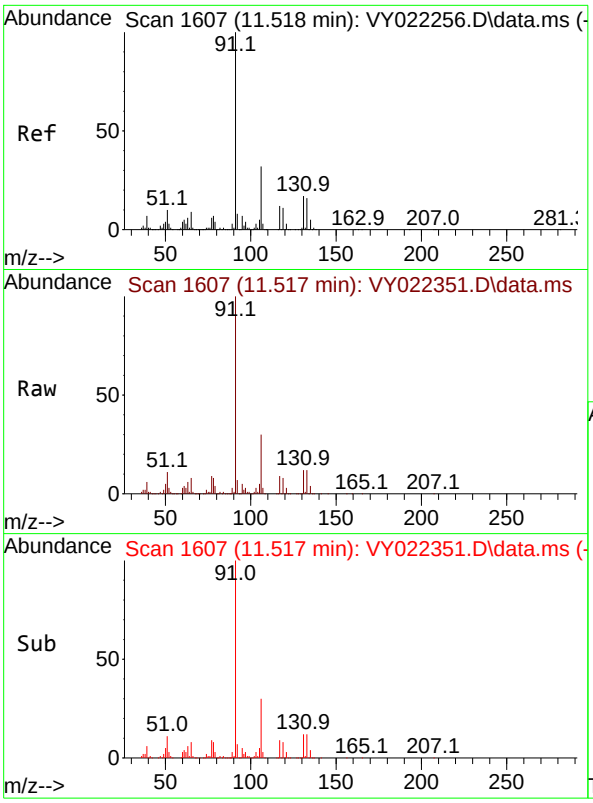



#66
1,1,1,2-Tetrachloroethane
Concen: 57.426 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:131 Resp: 87876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.0 | 47.3 | 141.9 |
| 119 | 66.2 | 33.1 | 99.2 |

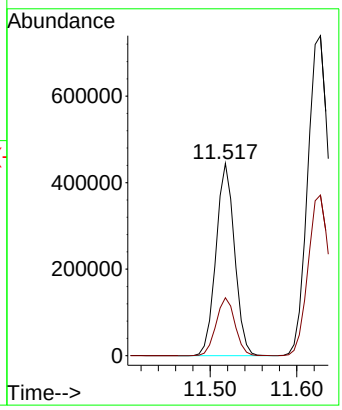





#67
Ethyl Benzene
Concen: 79.472 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 91 Resp: 66249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.1 | 25.4 | 38.0 |




**Instrument :**
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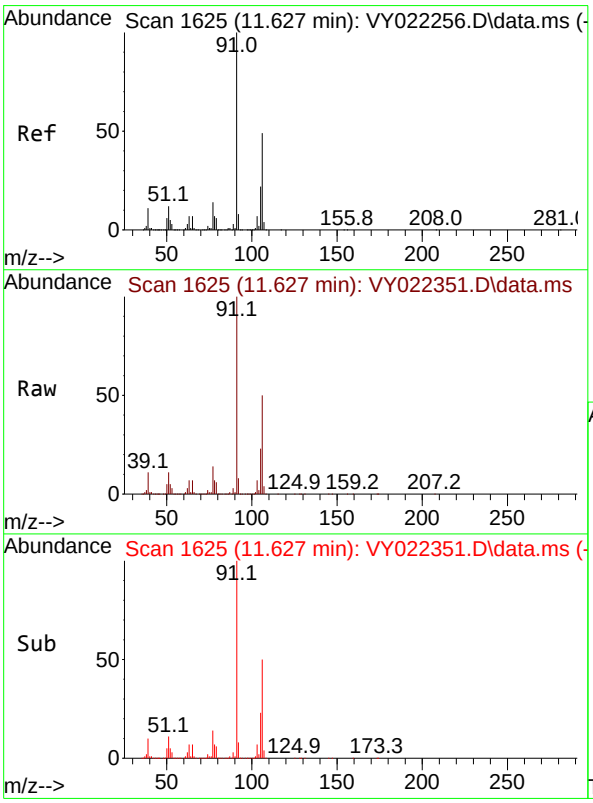
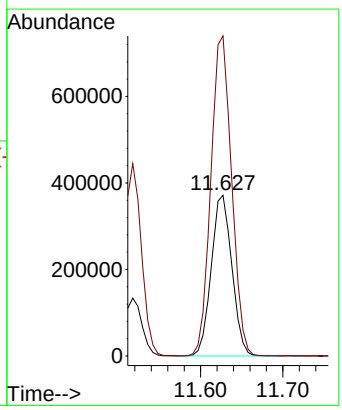
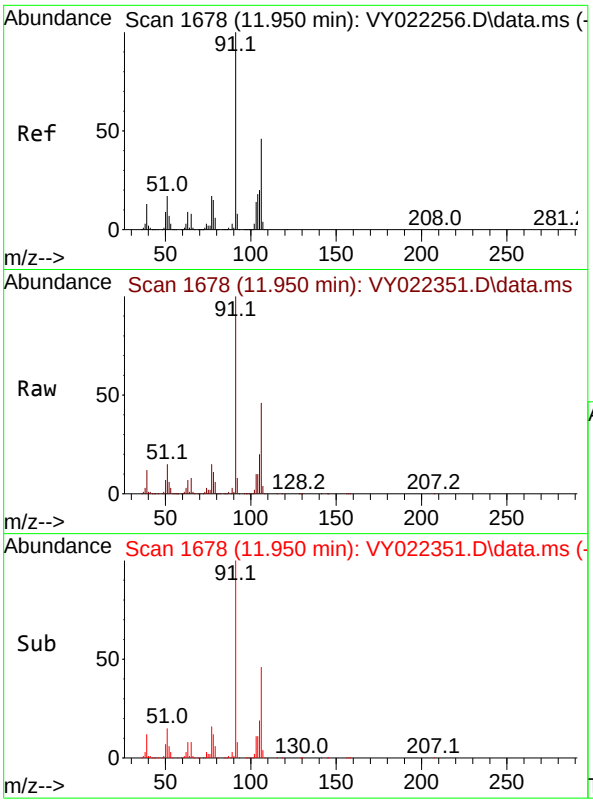



#68
m/p-Xylenes
Concen: 205.811 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:106 Resp: 646496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 200.8 | 163.0 | 244.4 |

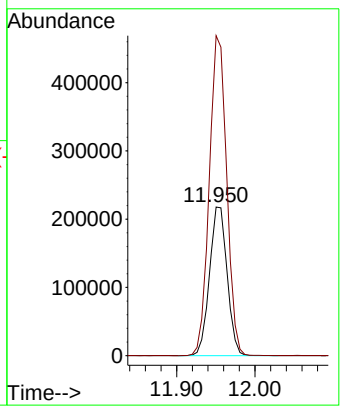





#69
o-Xylene
Concen: 114.296 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:106 Resp: 33968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 213.2 | 108.3 | 324.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

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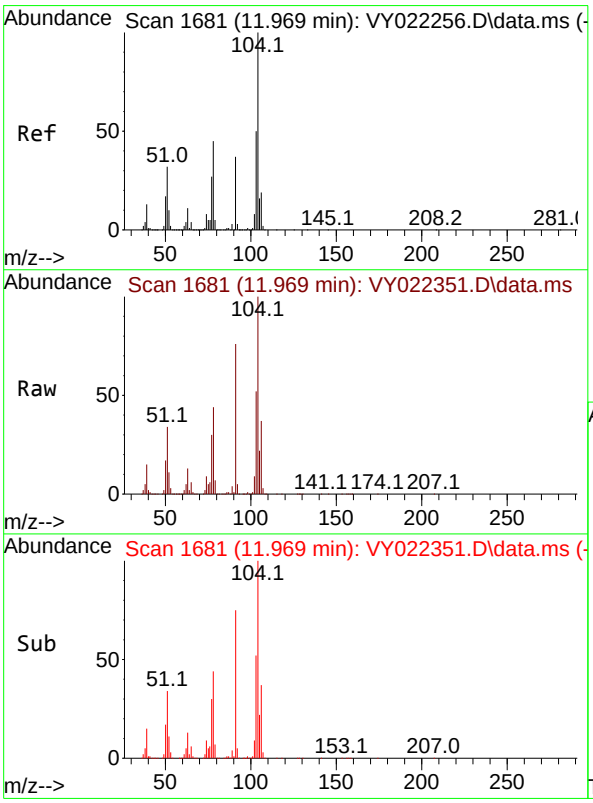
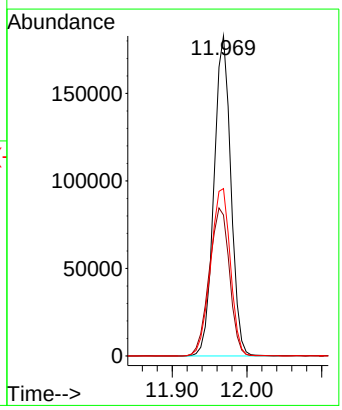
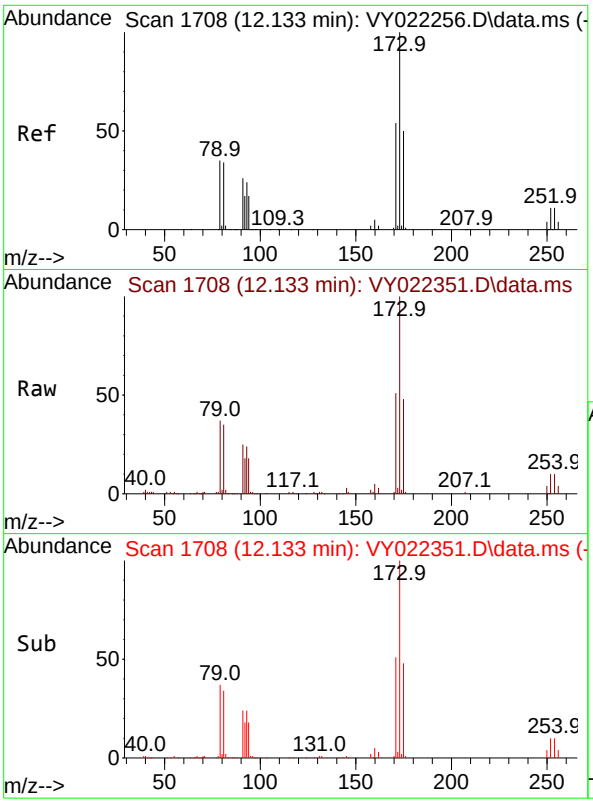



#70
Styrene
Concen: 57.189 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:104 Resp: 286703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 55.8 | 40.9 | 61.3 |
| 103 | 61.3 | 43.7 | 65.5 |

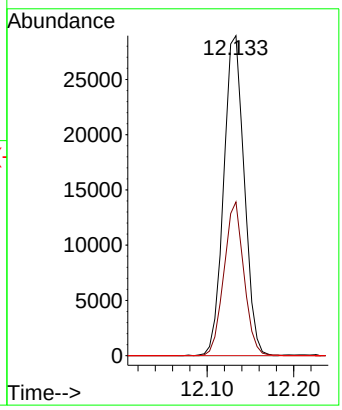





#71
Bromoform
Concen: 57.783 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:173 Resp: 4772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.7 | 24.7 | 74.1 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
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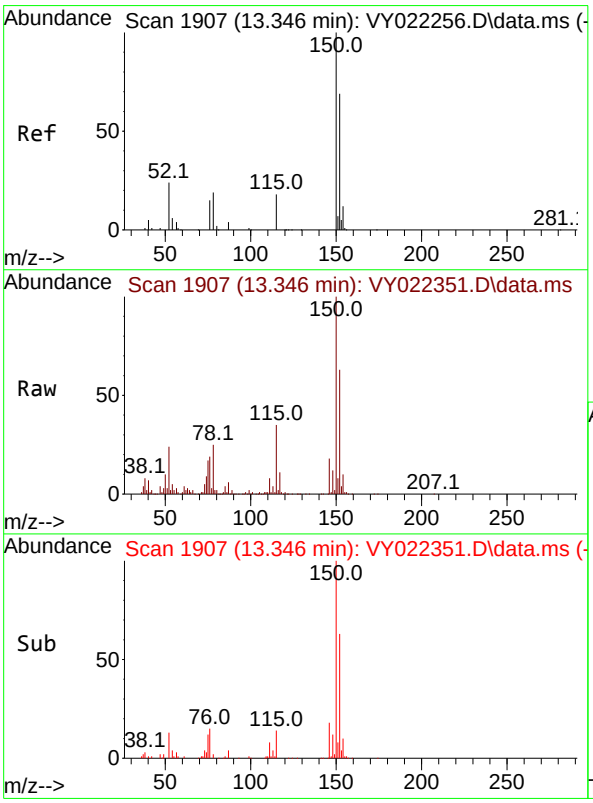
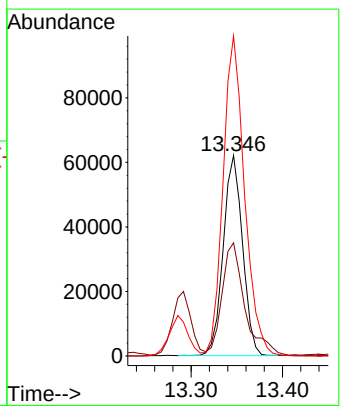
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

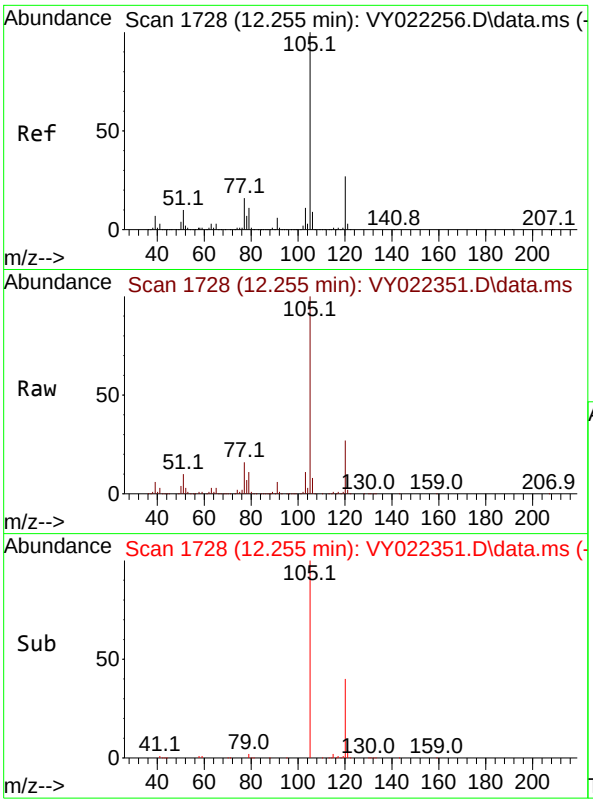



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:152 Resp: 91227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.9 | 29.4 | 88.2 |
| 150 | 177.9 | 0.0 | 353.8 |

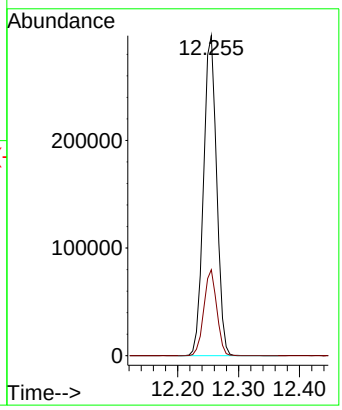





#73
Isopropylbenzene
Concen: 58.961 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:105 Resp: 44560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.3 | 13.2 | 39.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations**
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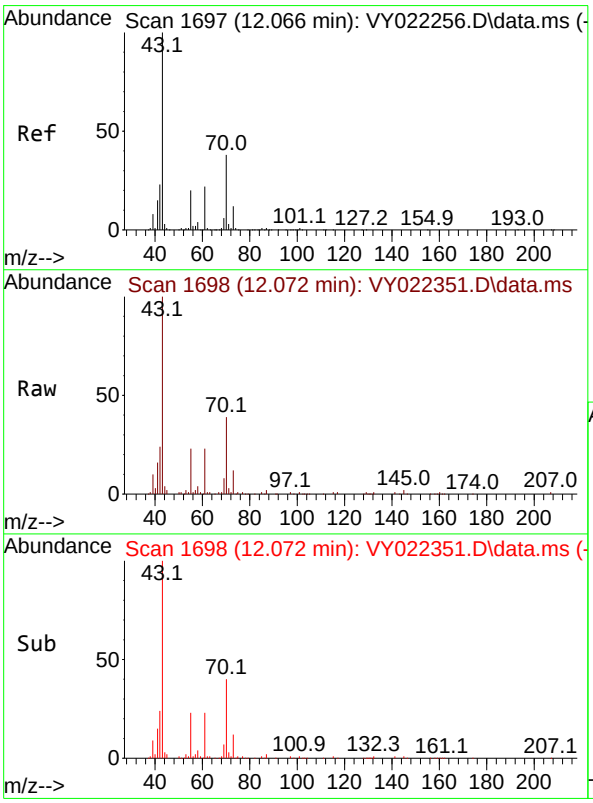
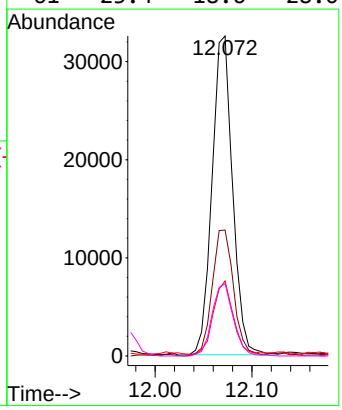
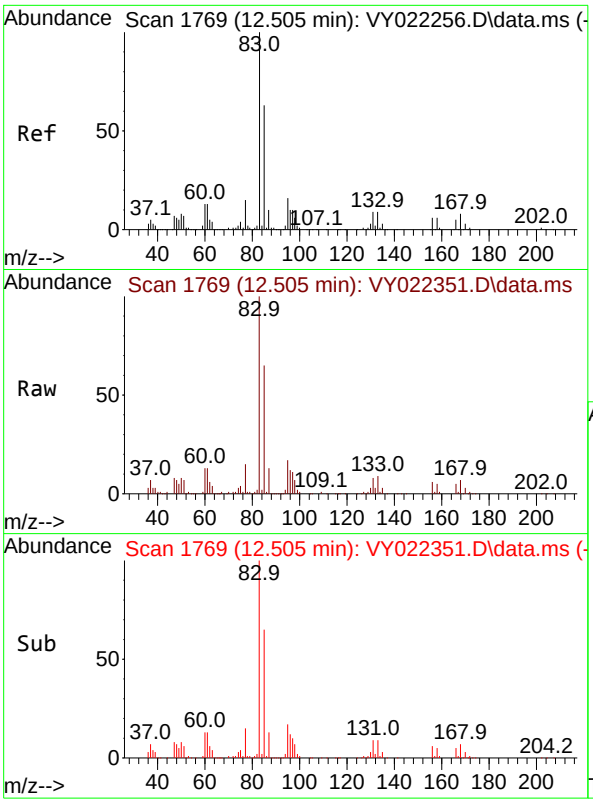



#74
N-amyl acetate
Concen: 22.212 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 43 Resp: 48012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 41.4 | 31.4 | 47.0 |
| 55 | 22.3 | 17.0 | 25.6 |
| 61 | 23.4 | 18.6 | 28.0 |






#75
1,1,2,2-Tetrachloroethane
Concen: 62.659 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 83 Resp: 7282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 4.9 | 14.7 |
| 85 | 63.6 | 32.0 | 96.0 |

**Instrument :**
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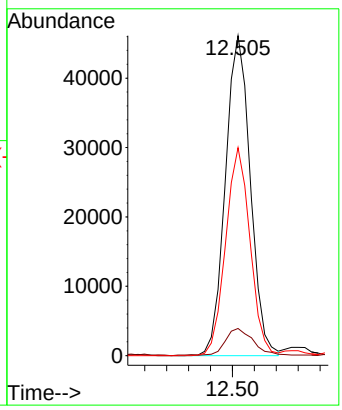
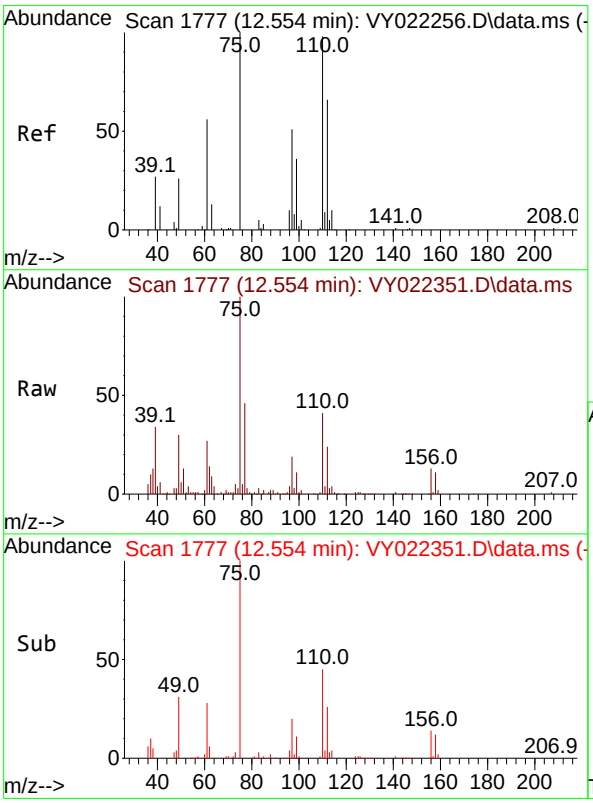
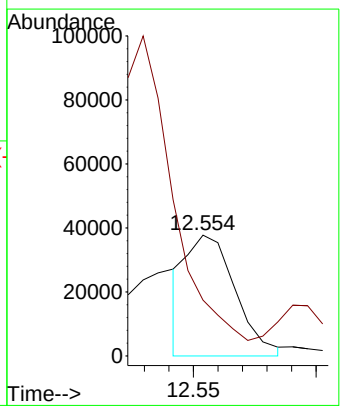


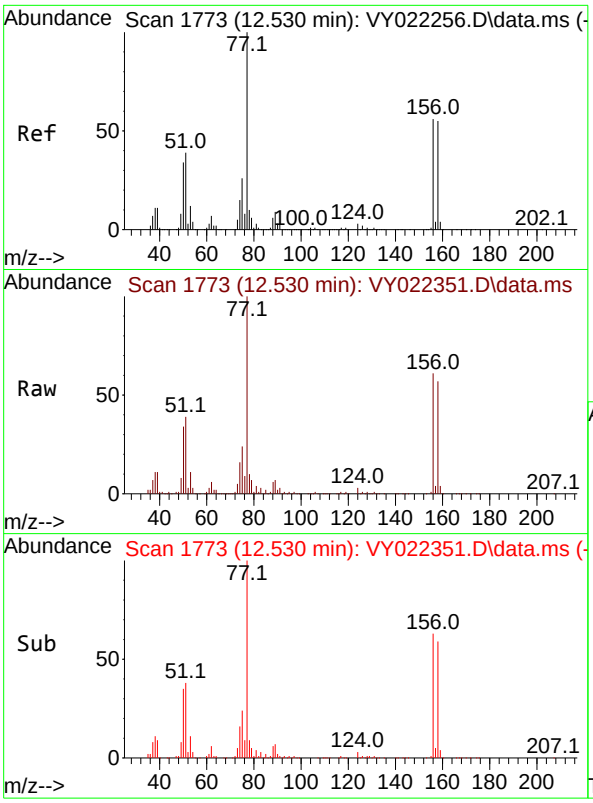




#76
1,2,3-Trichloropropane
Concen: 57.521 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 75 Resp: 53162

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

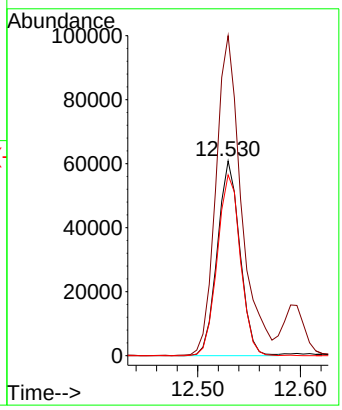





#77
Bromobenzene
Concen: 57.504 ug/l
RT: 12.530 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:156 Resp: 9282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 185.1 | 94.5 | 283.6 |
| 158 | 94.9 | 48.4 | 145.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
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**Manual Integrations**
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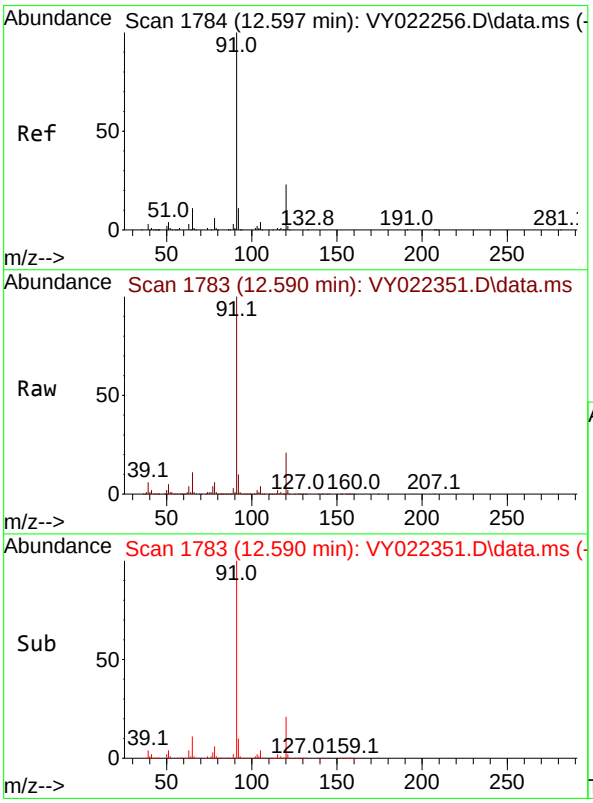
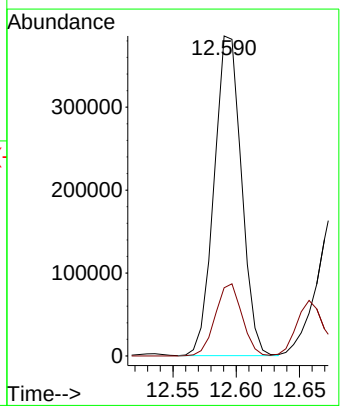
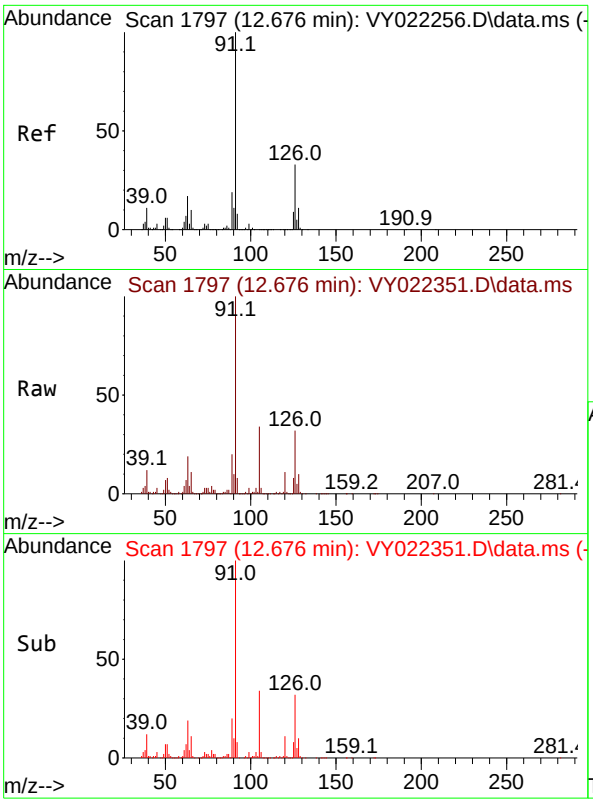



#78
n-propylbenzene
Concen: 63.472 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 91 Resp: 578609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.1 | 11.1 | 33.3 |

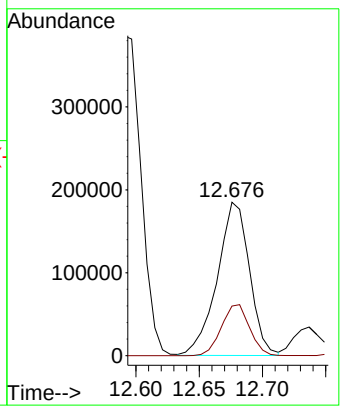





#79
2-Chlorotoluene
Concen: 65.517 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 91 Resp: 32821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.2 | 16.8 | 50.4 |

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MSVOA_Y
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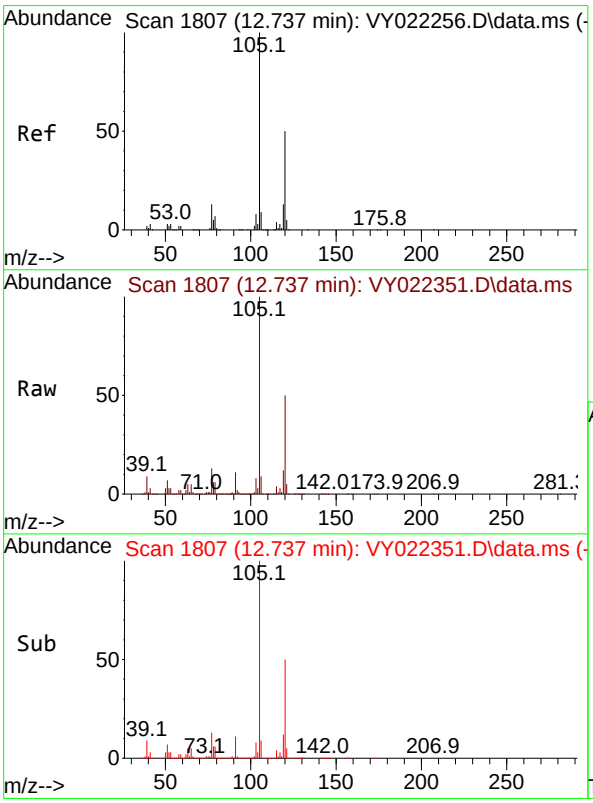
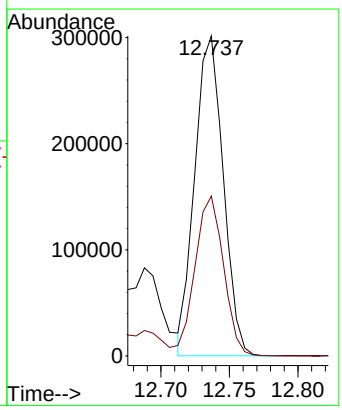
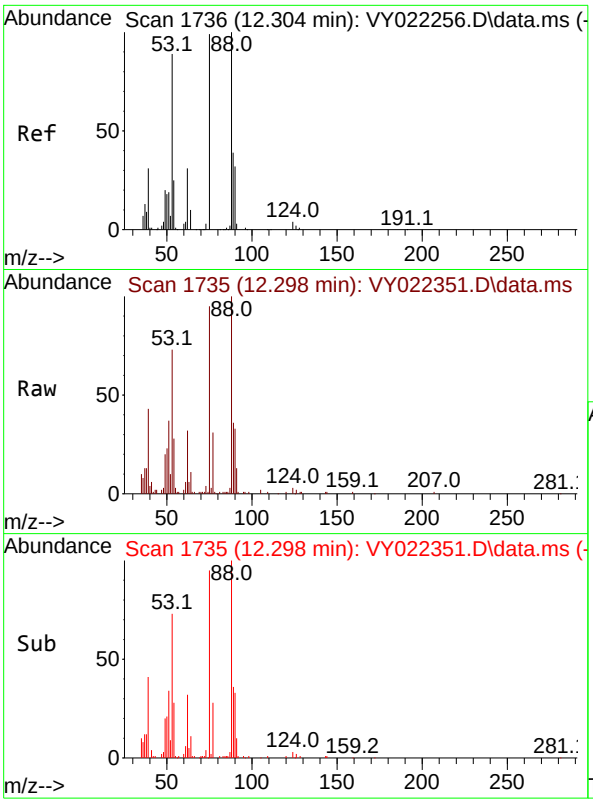



#80
1,3,5-Trimethylbenzene
Concen: 71.419 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:105 Resp: 435716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.4 | 24.2 | 72.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 42.975 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 75 Resp: 1960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 87.7 | 75.8 | 113.8 |
| 89 | 43.9 | 36.2 | 54.2 |

**Instrument :**
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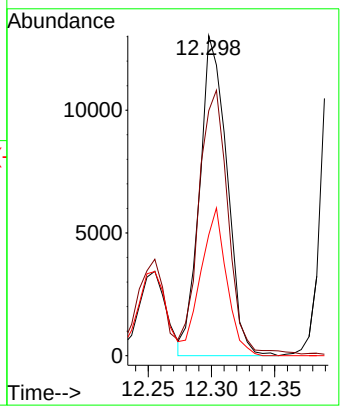
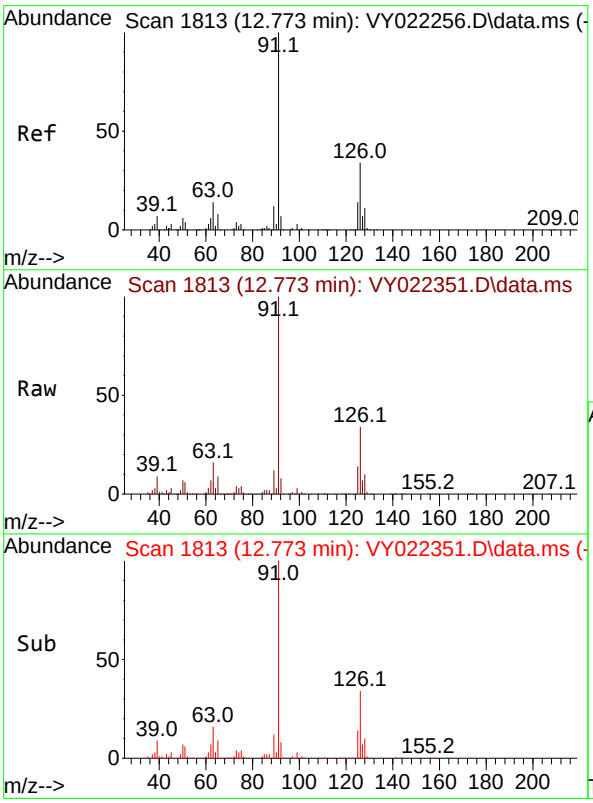
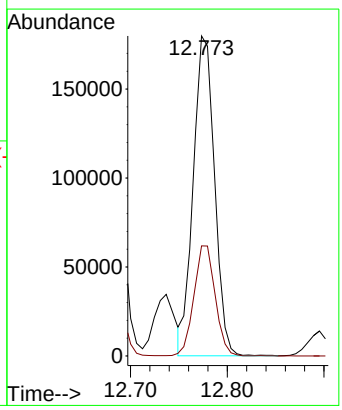


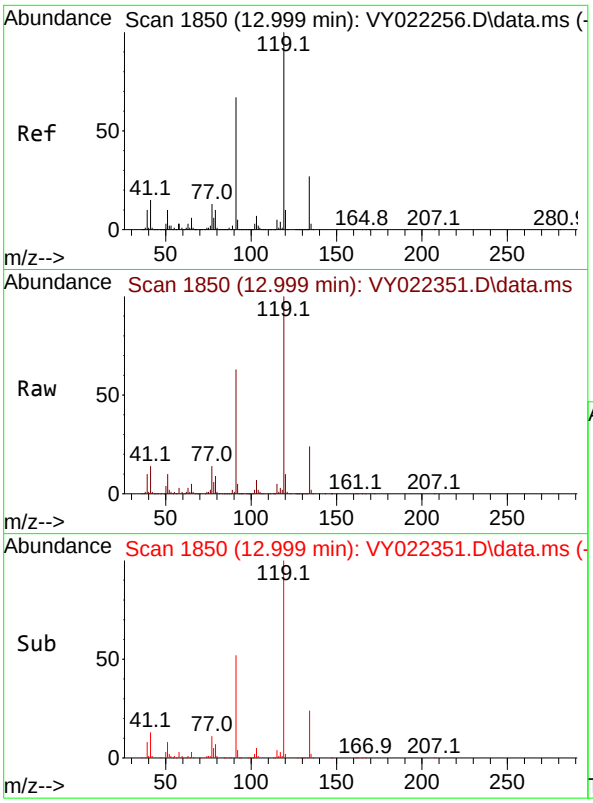




#82
4-Chlorotoluene
Concen: 53.441 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 91 Resp: 275371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.4 | 16.8 | 50.4 |

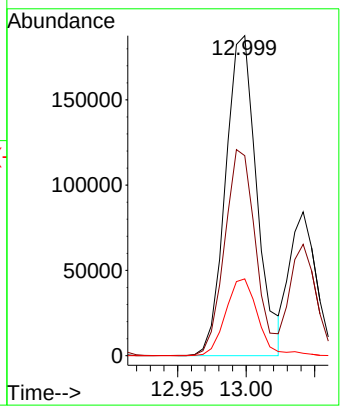





#83
tert-Butylbenzene
Concen: 54.832 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:119 Resp: 29732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.2 | 32.8 | 98.3 |
| 134 | 24.9 | 12.9 | 38.6 |

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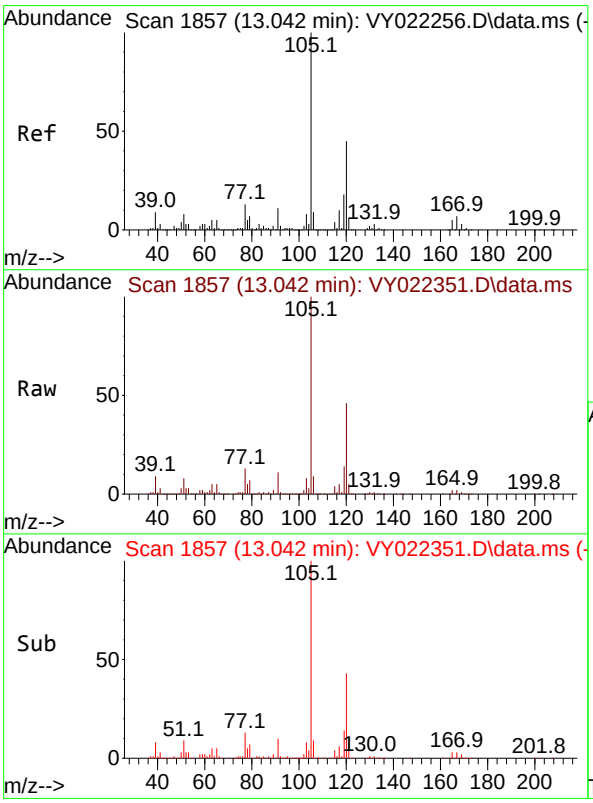
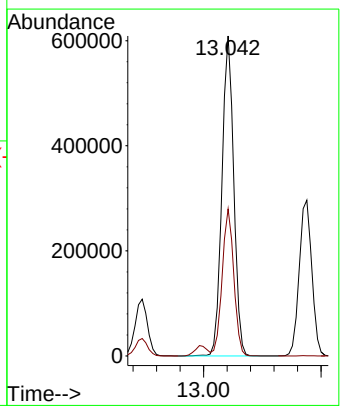
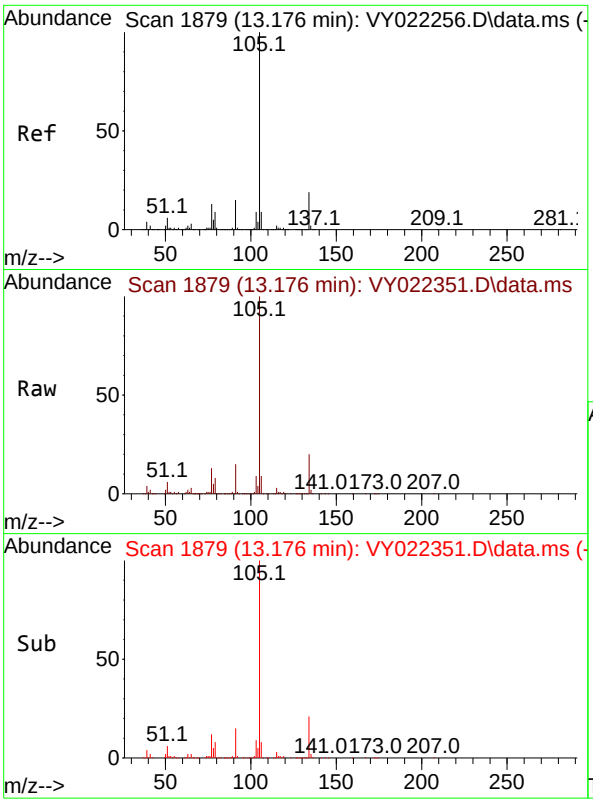



#84
1,2,4-Trimethylbenzene
Concen: 140.385 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:105 Resp: 850199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.3 | 22.3 | 66.9 |






#85
sec-Butylbenzene
Concen: 54.679 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:105 Resp: 44013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.8 | 29.5 |

**Instrument :**
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SS-11MSD

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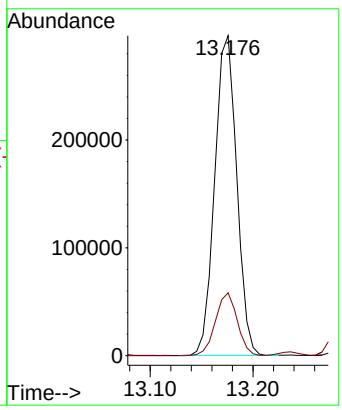
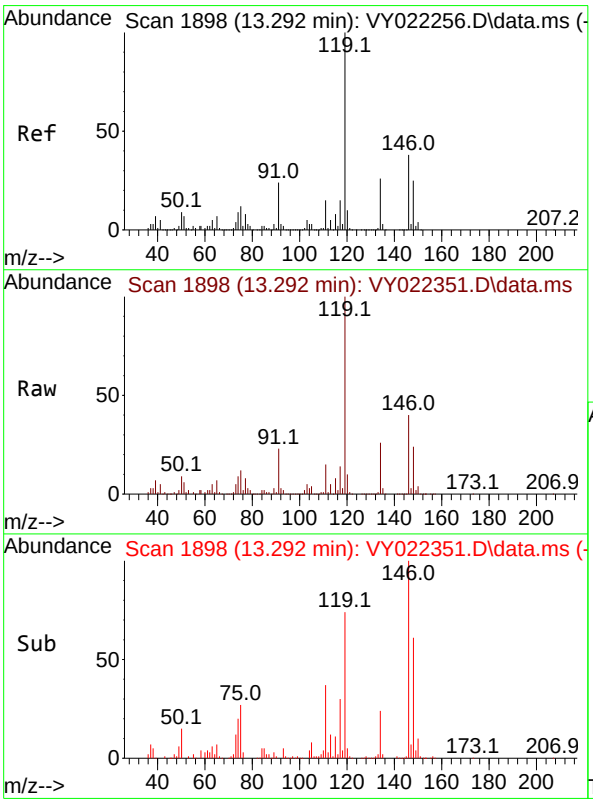
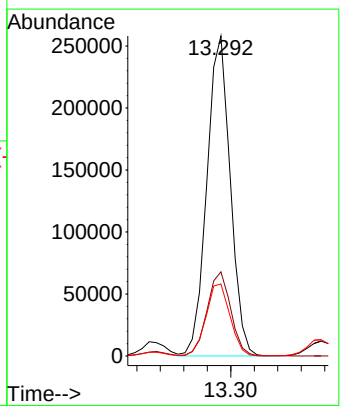


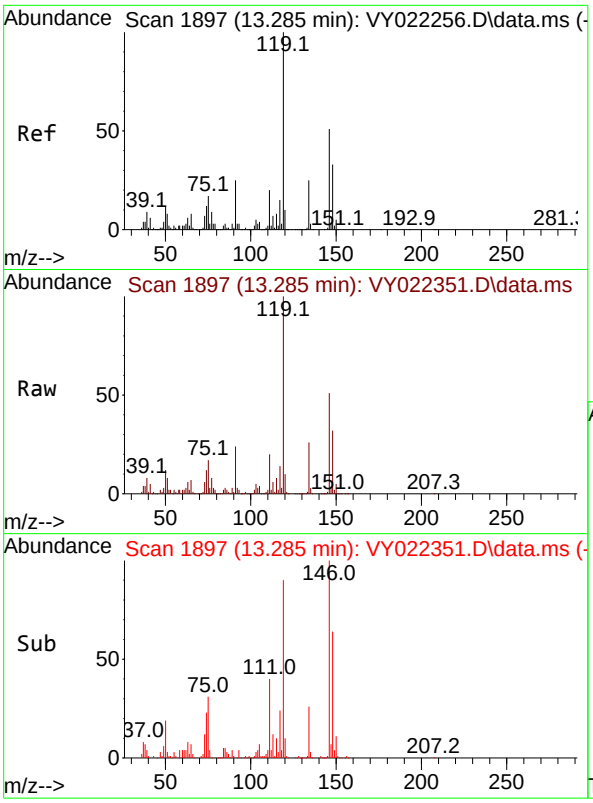




#86
p-Isopropyltoluene
Concen: 52.760 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:119 Resp: 357175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 12.9 | 38.6 |
| 91 | 23.1 | 12.1 | 36.3 |

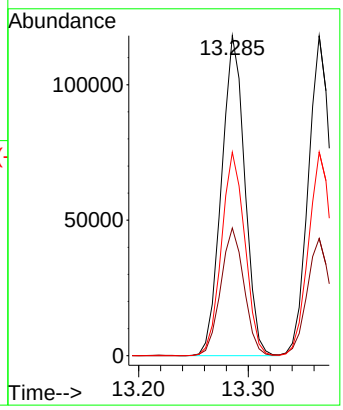





#87
1,3-Dichlorobenzene
Concen: 52.969 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:146 Resp: 17454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 19.9 | 59.7 |
| 148 | 63.8 | 31.9 | 95.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

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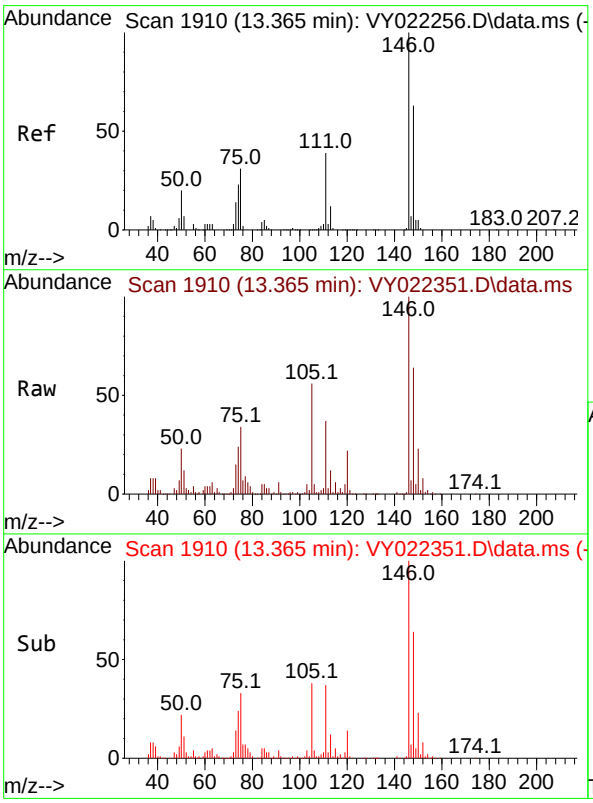
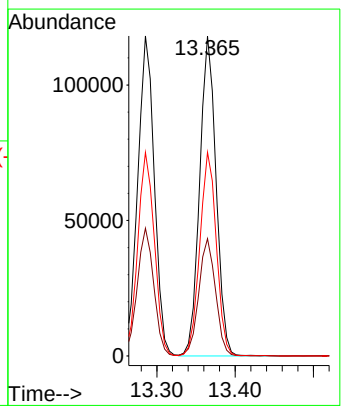
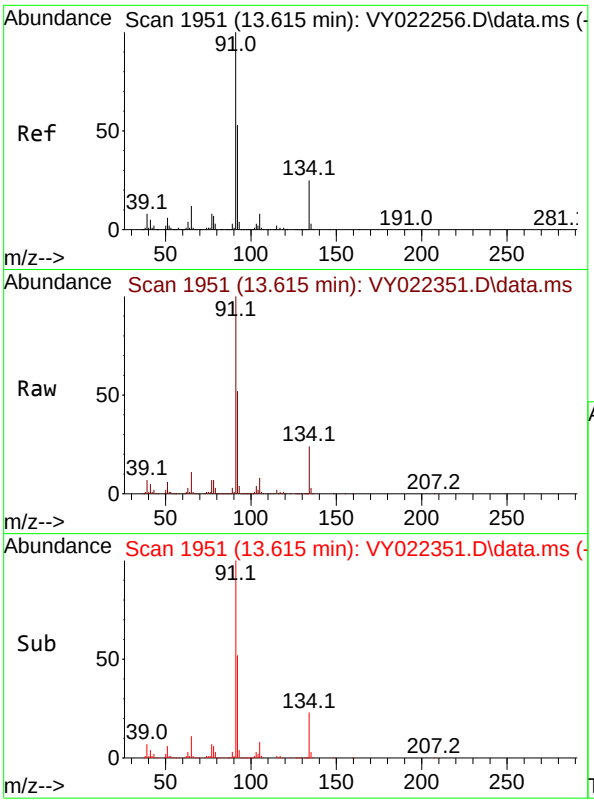



#88
1,4-Dichlorobenzene
Concen: 54.249 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:146 Resp: 171952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.3 | 20.0 | 59.9 |
| 148 | 64.2 | 32.1 | 96.5 |

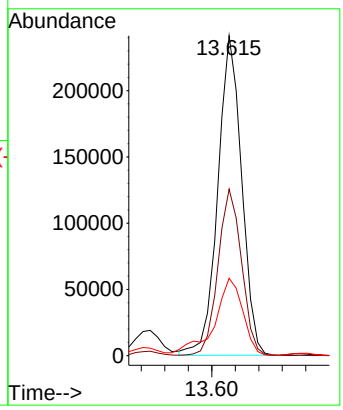





#89
n-Butylbenzene
Concen: 53.059 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 91 Resp: 33982

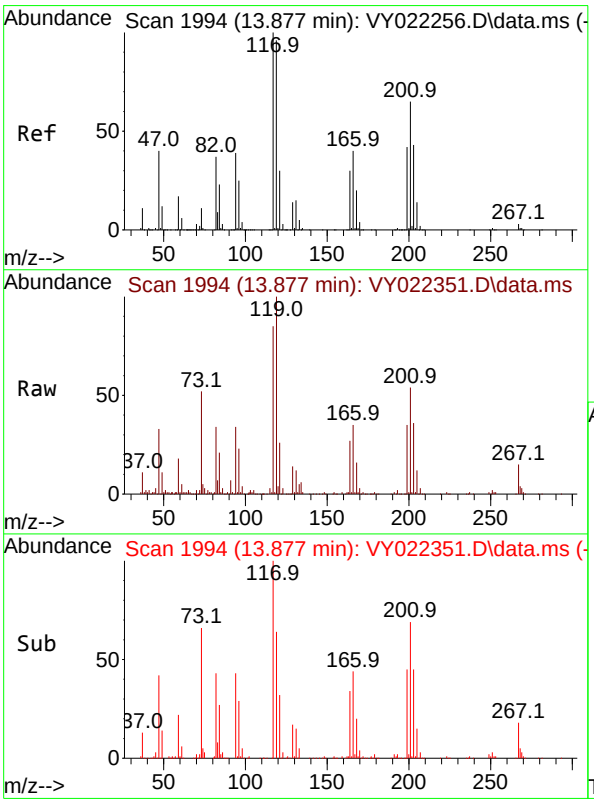
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.6 | 26.3 | 78.9 |
| 134 | 29.3 | 12.4 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations**
**APPROVED**

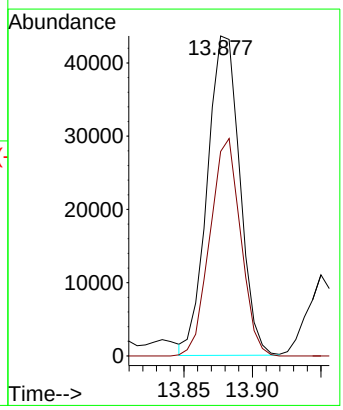
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

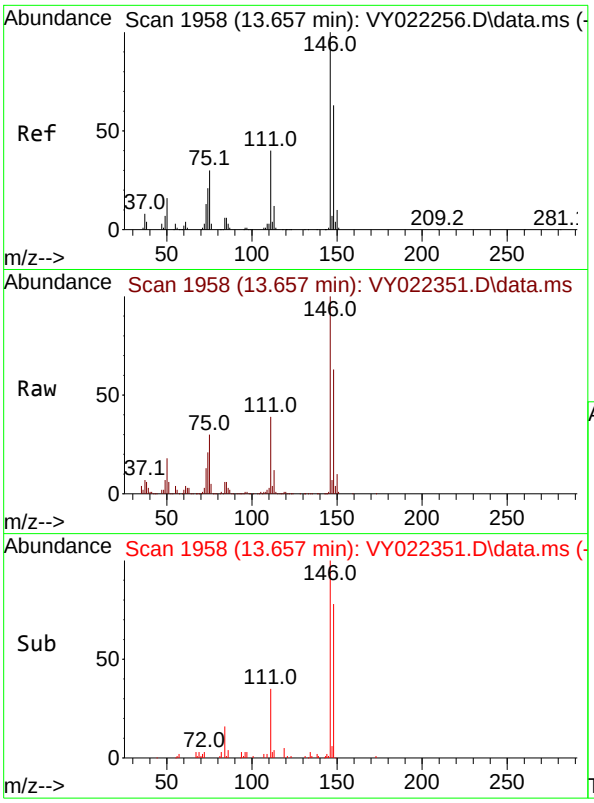



#90
Hexachloroethane
Concen: 52.546 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:117 Resp: 71808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 64.5 | 35.2 | 105.6 |

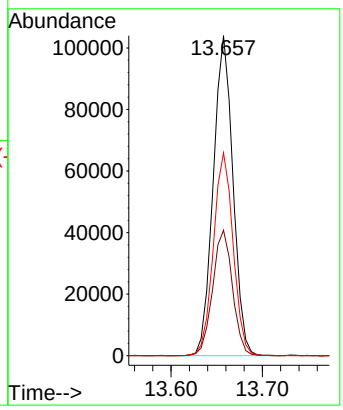





#91
1,2-Dichlorobenzene
Concen: 56.214 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:146 Resp: 15559

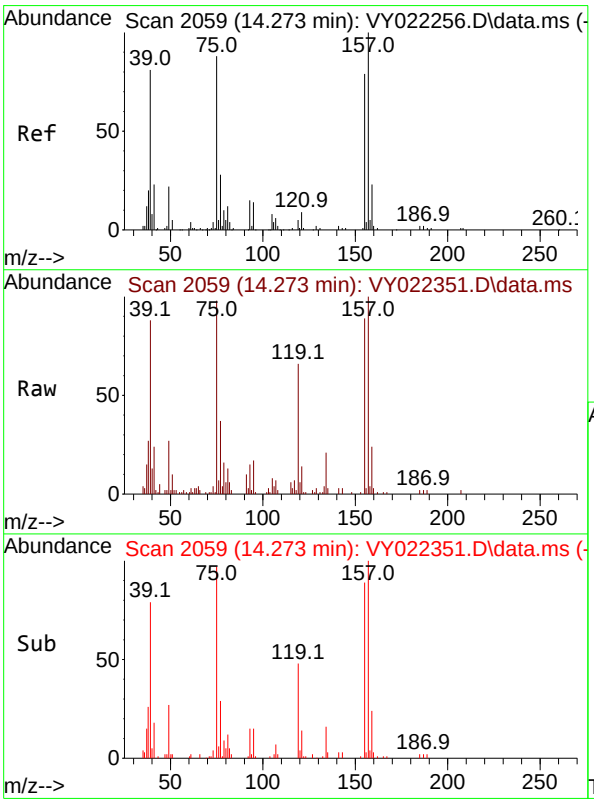
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.5 | 20.5 | 61.5 |
| 148 | 63.4 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations**
**APPROVED**

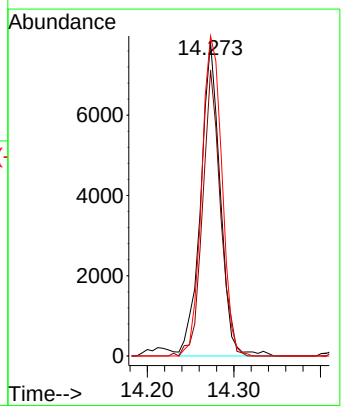
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

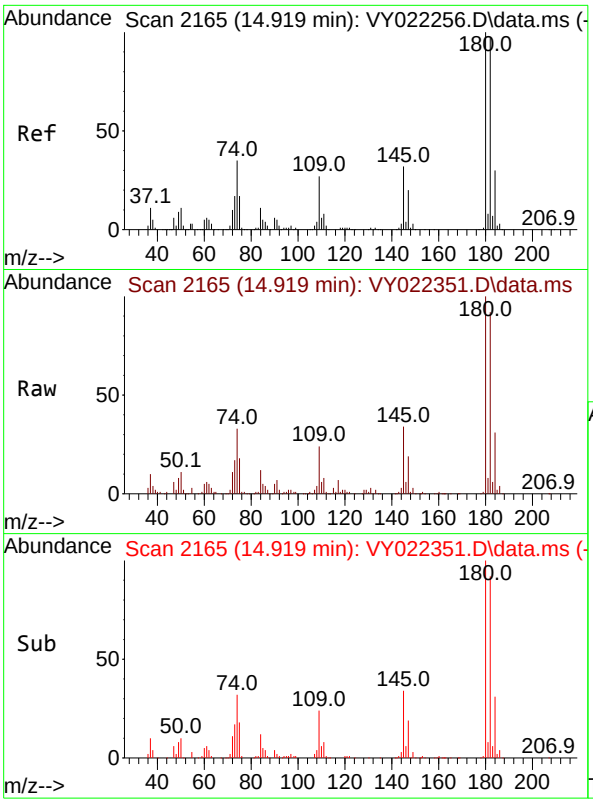



#92
1,2-Dibromo-3-Chloropropane
Concen: 65.194 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion: 75 Resp: 12219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 83.8 | 43.4 | 130.1 |
| 157 | 105.5 | 54.6 | 163.9 |

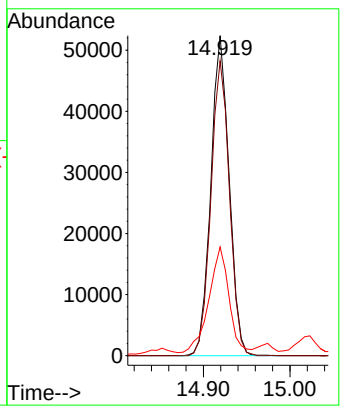





#93
1,2,4-Trichlorobenzene
Concen: 48.113 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:180 Resp: 7692

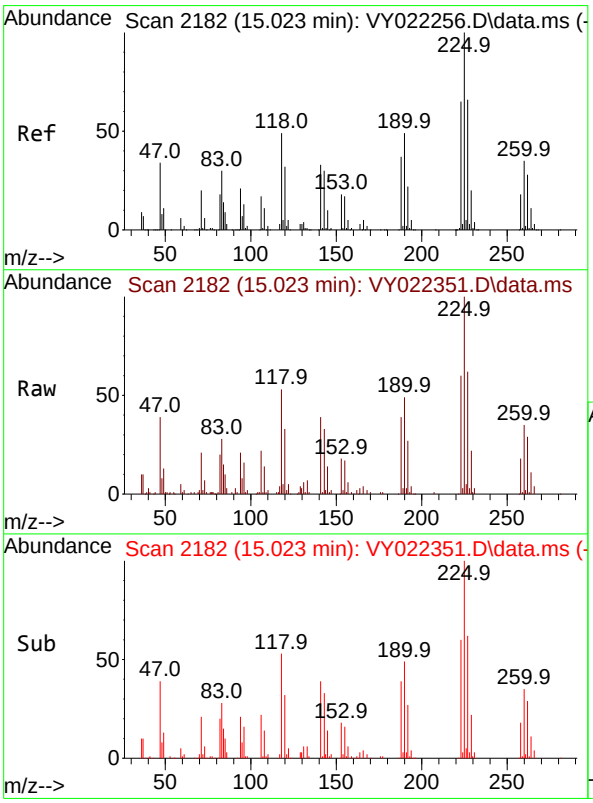
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.3 | 48.0 | 144.0 |
| 145 | 37.4 | 15.0 | 45.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations**
**APPROVED**

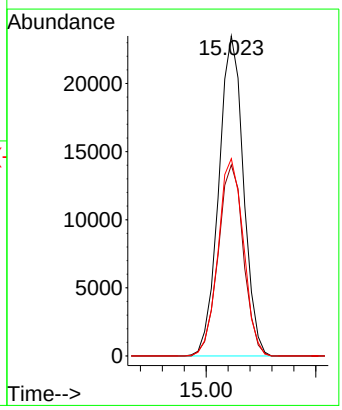
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

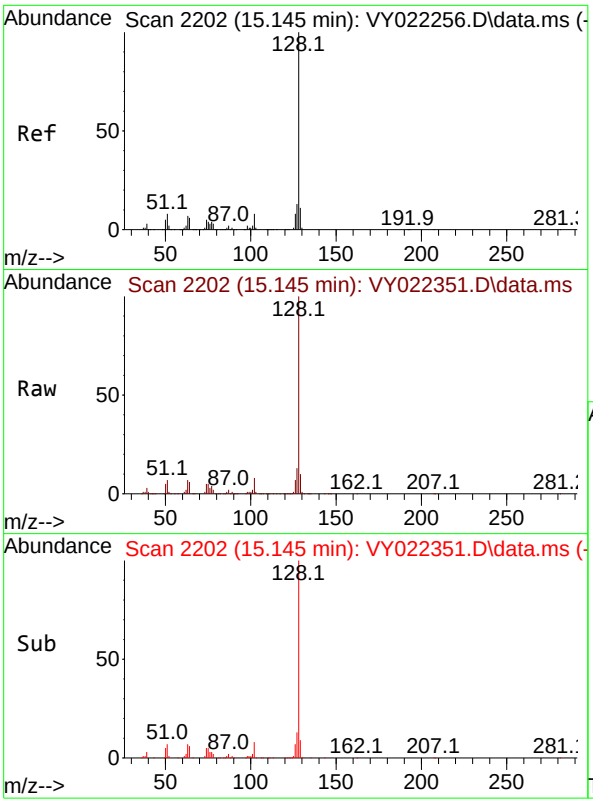



#94
Hexachlorobutadiene
Concen: 41.162 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:225 Resp: 36701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.0 | 31.5 | 94.5 |
| 227 | 63.4 | 32.1 | 96.3 |

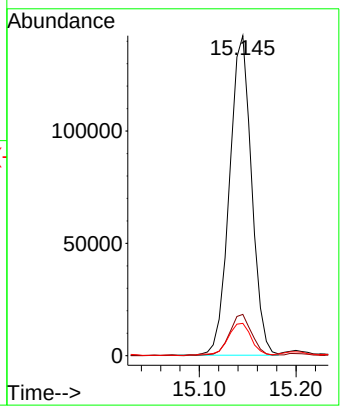





#95
Naphthalene
Concen: 74.594 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:128 Resp: 22632

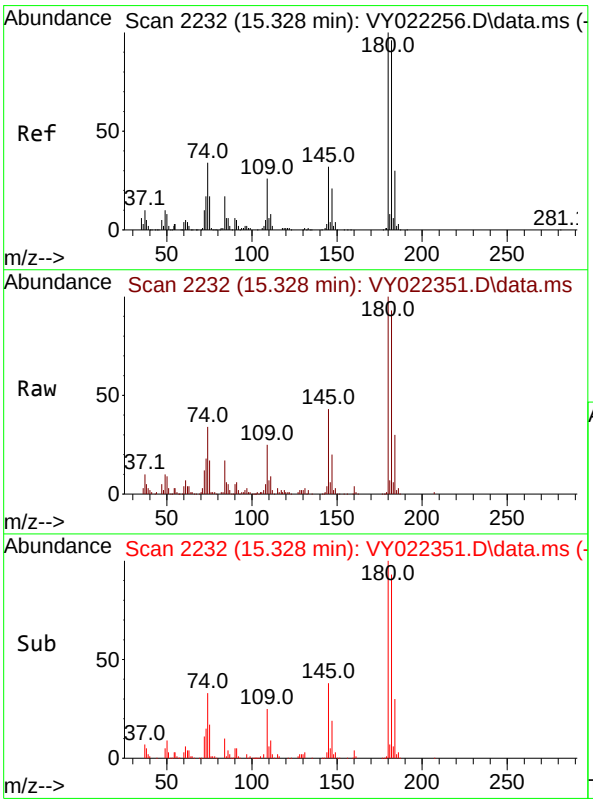
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.2 | 15.2 |
| 129 | 10.7 | 8.8 | 13.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
SS-11MSD

**Manual Integrations**
**APPROVED**

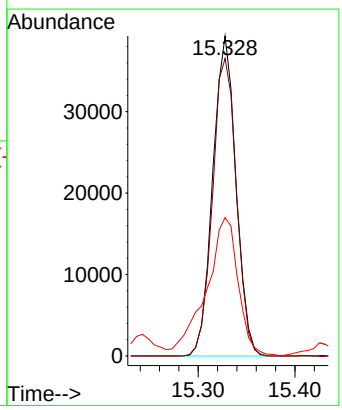
Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025




#96
1,2,3-Trichlorobenzene
Concen: 48.195 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY022351.D
Acq: 20 May 2025 18:26

Tgt Ion:180 Resp: 65369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 47.1 | 141.3 |
| 145 | 59.4 | 15.9 | 47.6# |



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

# Manual Integration Report

| Sequence: | VX050525 | Instrument | MSVOA_x |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC020 | VX046041.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:13 AM | MMDadoda | 5/6/2025 12:42:46 PM | Peak Integrated by Software |
| VSTDICCC050 | VX046042.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:18 AM | MMDadoda | 5/6/2025 12:42:48 PM | Peak Integrated by Software |
| VSTDICC100 | VX046043.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:22 AM | MMDadoda | 5/6/2025 12:42:50 PM | Peak Integrated by Software |
| VSTDICC150 | VX046044.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:27 AM | MMDadoda | 5/6/2025 12:42:53 PM | Peak Integrated by Software |
| VSTDICC005 | VX046046.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:32 AM | MMDadoda | 5/6/2025 12:42:56 PM | Peak Integrated by Software |
| VSTDICC005 | VX046046.D | Ethyl Acetate | JOHN | 5/6/2025 9:53:32 AM | MMDadoda | 5/6/2025 12:42:56 PM | Peak Integrated by Software |
| VSTDICC001 | VX046047.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:38 AM | MMDadoda | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001 | VX046047.D | 1,4-Dichlorobenzene | JOHN | 5/6/2025 9:53:38 AM | MMDadoda | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001 | VX046047.D | Bromochloromethane | JOHN | 5/6/2025 9:53:38 AM | MMDadoda | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001 | VX046047.D | Ethyl Acetate | JOHN | 5/6/2025 9:53:38 AM | MMDadoda | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001 | VX046047.D | Methyl methacrylate | JOHN | 5/6/2025 9:53:38 AM | MMDadoda | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICV050 | VX046048.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:45 AM | MMDadoda | 5/6/2025 12:41:37 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VX050525 | Instrument | MSVOA_x |
|---|---|---|---|

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

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# Manual Integration Report

| Sequence: | VX052125 | Instrument | MSVOA_x |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VX046284.D | 1,2,3-Trichloropropane | JOHN | 5/22/2025 7:40:14 AM | MMDadoda | 5/22/2025 8:23:27 AM | Peak Integrated by Software |
| VX0521WBS01 | VX046287.D | 1,2,3-Trichloropropane | JOHN | 5/22/2025 7:40:19 AM | MMDadoda | 5/22/2025 8:23:29 AM | Peak Integrated by Software |
| VX0521WBSD01 | VX046288.D | 1,2,3-Trichloropropane | JOHN | 5/22/2025 7:40:23 AM | MMDadoda | 5/22/2025 8:23:30 AM | Peak Integrated by Software |
| VSTDCCC050 | VX046309.D | 1,2,3-Trichloropropane | JOHN | 5/22/2025 7:40:45 AM | MMDadoda | 5/22/2025 8:23:35 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vx052325 | Instrument | MSVOA_x |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VX046331.D | 1,2,3-Trichloropropane | SAM | 5/26/2025 5:41:51 AM | MMDadoda | 5/26/2025 5:43:38 AM | Peak Integrated by Software |
| VSTDCCC050 | VX046331.D | Methacrylonitrile | SAM | 5/26/2025 5:41:51 AM | MMDadoda | 5/26/2025 5:43:38 AM | Peak Integrated by Software |
| VX0523MBS01 | VX046335.D | 1,2,3-Trichloropropane | SAM | 5/26/2025 5:41:57 AM | MMDadoda | 5/26/2025 5:43:43 AM | Peak Integrated by Software |
| VSTDCCC050 | VX046357.D | 1,2,3-Trichloropropane | SAM | 5/26/2025 5:42:03 AM | MMDadoda | 5/26/2025 5:43:48 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY051525 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC005 | VY022253.D | 1,2,3-Trichloropropane | MMDadoda | 5/16/2025 11:48:35 AM | Sam | 5/16/2025 11:50:51 AM | Peak Integrated by Software |
| VSTDICC005 | VY022253.D | Methacrylonitrile | MMDadoda | 5/16/2025 11:48:35 AM | Sam | 5/16/2025 11:50:51 AM | Peak Integrated by Software |
| VSTDICC005 | VY022253.D | Methyl Acetate | MMDadoda | 5/16/2025 11:48:35 AM | Sam | 5/16/2025 11:50:51 AM | Peak Integrated by Software |
| VSTDICC010 | VY022254.D | 1,2,3-Trichloropropane | MMDadoda | 5/16/2025 11:48:33 AM | Sam | 5/16/2025 11:50:49 AM | Peak Integrated by Software |
| VSTDICC010 | VY022254.D | Methacrylonitrile | MMDadoda | 5/16/2025 11:48:33 AM | Sam | 5/16/2025 11:50:49 AM | Peak Integrated by Software |
| VSTDICC020 | VY022255.D | 1,2,3-Trichloropropane | MMDadoda | 5/16/2025 11:48:32 AM | Sam | 5/16/2025 11:50:48 AM | Peak Integrated by Software |
| VSTDICC020 | VY022255.D | Methacrylonitrile | MMDadoda | 5/16/2025 11:48:32 AM | Sam | 5/16/2025 11:50:48 AM | Peak Integrated by Software |
| VSTDICCC050 | VY022256.D | 1,2,3-Trichloropropane | MMDadoda | 5/16/2025 11:48:30 AM | Sam | 5/16/2025 11:50:46 AM | Peak Integrated by Software |
| VSTDICCC050 | VY022256.D | Methacrylonitrile | MMDadoda | 5/16/2025 11:48:30 AM | Sam | 5/16/2025 11:50:46 AM | Peak Integrated by Software |
| VSTDICC100 | VY022257.D | 1,2,3-Trichloropropane | MMDadoda | 5/16/2025 11:48:28 AM | Sam | 5/16/2025 11:50:45 AM | Peak Integrated by Software |
| VSTDICC100 | VY022257.D | Methacrylonitrile | MMDadoda | 5/16/2025 11:48:28 AM | Sam | 5/16/2025 11:50:45 AM | Peak Integrated by Software |
| VSTDICC150 | VY022258.D | 1,2,3-Trichloropropane | MMDadoda | 5/16/2025 11:48:27 AM | Sam | 5/16/2025 11:50:43 AM | Peak Integrated by Software |
| VSTDICC150 | VY022258.D | Methacrylonitrile | MMDadoda | 5/16/2025 11:48:27 AM | Sam | 5/16/2025 11:50:43 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY051525 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICV050 | VY022260.D | 1,2,3-Trichloropropane | MMDadoda | 5/16/2025 11:48:25 AM | Sam | 5/16/2025 11:50:42 AM | Peak Integrated by Software |
| VSTDICV050 | VY022260.D | Methacrylonitrile | MMDadoda | 5/16/2025 11:48:25 AM | Sam | 5/16/2025 11:50:42 AM | Peak Integrated by Software |
| VSTDCCC050 | VY022275.D | 1,2,3-Trichloropropane | MMDadoda | 5/16/2025 11:48:21 AM | Sam | 5/16/2025 11:50:27 AM | Peak Integrated by Software |
| VSTDCCC050 | VY022275.D | Methacrylonitrile | MMDadoda | 5/16/2025 11:48:21 AM | Sam | 5/16/2025 11:50:27 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vy052025 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY022329.D | 1,2,3-Trichloropropane | MMDadoda | 5/21/2025 3:43:03 PM | Sam | 5/21/2025 3:55:05 PM | Peak Integrated by Software |
| VSTDCCC050 | VY022329.D | Methacrylonitrile | MMDadoda | 5/21/2025 3:43:03 PM | Sam | 5/21/2025 3:55:05 PM | Peak Integrated by Software |
| VY0520SBS01 | VY022331.D | 1,2,3-Trichloropropane | MMDadoda | 5/21/2025 3:43:06 PM | Sam | 5/21/2025 3:55:08 PM | Peak Integrated by Software |
| Q2075-04MS | VY022350.D | 1,2,3-Trichloropropane | MMDadoda | 5/21/2025 3:43:18 PM | Sam | 5/21/2025 3:55:15 PM | Peak Integrated by Software |
| Q2075-04MS | VY022350.D | Methacrylonitrile | MMDadoda | 5/21/2025 3:43:18 PM | Sam | 5/21/2025 3:55:15 PM | Peak Integrated by Software |
| Q2075-04MS | VY022350.D | Vinyl Acetate | MMDadoda | 5/21/2025 3:43:18 PM | Sam | 5/21/2025 3:55:15 PM | Peak Integrated by Software |
| Q2075-05MSD | VY022351.D | 1,2,3-Trichloropropane | MMDadoda | 5/21/2025 3:43:20 PM | Sam | 5/21/2025 3:55:17 PM | Peak Integrated by Software |
| Q2075-05MSD | VY022351.D | Methacrylonitrile | MMDadoda | 5/21/2025 3:43:20 PM | Sam | 5/21/2025 3:55:17 PM | Peak Integrated by Software |
| Q2075-05MSD | VY022351.D | Vinyl Acetate | MMDadoda | 5/21/2025 3:43:20 PM | Sam | 5/21/2025 3:55:17 PM | Peak Integrated by Software |
| VSTDCCC050 | VY022352.D | 1,2,3-Trichloropropane | MMDadoda | 5/21/2025 3:43:22 PM | Sam | 5/21/2025 3:55:19 PM | Peak Integrated by Software |
| VSTDCCC050 | VY022352.D | Methacrylonitrile | MMDadoda | 5/21/2025 3:43:22 PM | Sam | 5/21/2025 3:55:19 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vy052225 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY022380.D | 1,2,3-Trichloropropane | JOHN | 5/23/2025 11:04:46 AM | MMDadoda | 5/23/2025 4:07:00 PM | Peak Integrated by Software |
| VY0522SBS01 | VY022382.D | 1,2,3-Trichloropropane | JOHN | 5/23/2025 11:04:50 AM | MMDadoda | 5/23/2025 4:07:01 PM | Peak Integrated by Software |
| VSTDCCC050 | VY022405.D | 1,2,3-Trichloropropane | JOHN | 5/23/2025 11:04:59 AM | MMDadoda | 5/23/2025 4:07:04 PM | Peak Integrated by Software |
| VSTDCCC050 | VY022405.D | Methacrylonitrile | JOHN | 5/23/2025 11:04:59 AM | MMDadoda | 5/23/2025 4:07:04 PM | Peak Integrated by Software |

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX050525

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/6/2025 9:53:58 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/6/2025 12:43:00 PM | | |
| SubDirectory | VX050525 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133811 |
| Initial Calibration Stds | VP133832,VP133833,VP133834,VP133835,VP133836,VP133837 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP133838 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VX046038.D | 05 May 2025 09:37 | JC/MD | Ok |
| 2 | VSTDICC001 | VX046039.D | 05 May 2025 10:49 | JC/MD | Not Ok |
| 3 | VSTDICC005 | VX046040.D | 05 May 2025 11:12 | JC/MD | Not Ok |
| 4 | VSTDICC020 | VX046041.D | 05 May 2025 11:35 | JC/MD | Ok,M |
| 5 | VSTDICCC050 | VX046042.D | 05 May 2025 11:58 | JC/MD | Ok,M |
| 6 | VSTDICC100 | VX046043.D | 05 May 2025 12:21 | JC/MD | Ok,M |
| 7 | VSTDICC150 | VX046044.D | 05 May 2025 12:45 | JC/MD | Ok,M |
| 8 | IBLK | VX046045.D | 05 May 2025 13:08 | JC/MD | Ok |
| 9 | VSTDICC005 | VX046046.D | 05 May 2025 16:04 | JC/MD | Ok,M |
| 10 | VSTDICC001 | VX046047.D | 05 May 2025 16:27 | JC/MD | Ok,M |
| 11 | VSTDICV050 | VX046048.D | 05 May 2025 16:50 | 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 # VX052125

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/22/2025 7:44:17 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/22/2025 8:23:40 AM | | |
| SubDirectory | VX052125 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133985 |
| Initial Calibration Stds | |
| CCC | VP133986,VP133987 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VX046283.D | 21 May 2025 09:13 | JC/MD | Ok |
| 2 | VSTDCCC050 | VX046284.D | 21 May 2025 09:55 | JC/MD | Ok,M |
| 3 | VX0521MBL01 | VX046285.D | 21 May 2025 10:22 | JC/MD | Ok |
| 4 | VX0521WBL01 | VX046286.D | 21 May 2025 10:46 | JC/MD | Ok |
| 5 | VX0521WBS01 | VX046287.D | 21 May 2025 11:09 | JC/MD | Ok,M |
| 6 | VX0521WBSD01 | VX046288.D | 21 May 2025 11:36 | JC/MD | Ok,M |
| 7 | Q2065-01 | VX046289.D | 21 May 2025 11:59 | JC/MD | Ok |
| 8 | Q2068-03 | VX046290.D | 21 May 2025 12:23 | JC/MD | Ok |
| 9 | Q2093-14 | VX046291.D | 21 May 2025 12:46 | JC/MD | Ok |
| 10 | Q2075-07 | VX046292.D | 21 May 2025 13:09 | JC/MD | Ok |
| 11 | Q2075-08 | VX046293.D | 21 May 2025 13:32 | JC/MD | Ok |
| 12 | Q2082-01 | VX046294.D | 21 May 2025 13:56 | JC/MD | Ok |
| 13 | Q2082-04 | VX046295.D | 21 May 2025 14:19 | JC/MD | Ok |
| 14 | Q2082-12 | VX046296.D | 21 May 2025 14:42 | JC/MD | Ok |
| 15 | Q2082-02 | VX046297.D | 21 May 2025 15:05 | JC/MD | Ok |
| 16 | Q2082-03 | VX046298.D | 21 May 2025 15:29 | JC/MD | Ok |
| 17 | Q2082-05 | VX046299.D | 21 May 2025 15:52 | JC/MD | Ok |
| 18 | Q2082-07 | VX046300.D | 21 May 2025 16:15 | JC/MD | Ok |
| 19 | Q2082-08 | VX046301.D | 21 May 2025 16:39 | JC/MD | Ok |
| 20 | Q2088-01 | VX046302.D | 21 May 2025 17:02 | JC/MD | Ok |
| 21 | Q2096-01 | VX046303.D | 21 May 2025 17:25 | JC/MD | Ok |

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX052125

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/22/2025 7:44:17 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/22/2025 8:23:40 AM | | |
| SubDirectory | VX052125 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133985 |
| Initial Calibration Stds | |
| CCC | VP133986,VP133987 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2102-03 | VX046304.D | 21 May 2025 17:48 | JC/MD | Not Ok |
| 23 | IBLK | VX046305.D | 21 May 2025 18:12 | JC/MD | Ok |
| 24 | Q2082-09 | VX046306.D | 21 May 2025 18:35 | JC/MD | Ok |
| 25 | Q2082-10MS | VX046307.D | 21 May 2025 18:58 | JC/MD | Ok,M |
| 26 | Q2082-11MSD | VX046308.D | 21 May 2025 19:21 | JC/MD | Ok,M |
| 27 | VSTDCCC050 | VX046309.D | 21 May 2025 19:44 | JC/MD | Ok,M |

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX052325

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/23/2025 4:14:57 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 5/26/2025 5:42:25 AM | | |
| SubDirectory | VX052325 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134008 |
| Initial Calibration Stds | |
| CCC | VP134009,VP134010 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VX046330.D | 23 May 2025 08:25 | JC/MD | Ok |
| 2 | VSTDCCC050 | VX046331.D | 23 May 2025 09:24 | JC/MD | Ok,M |
| 3 | VX0523MBL01 | VX046332.D | 23 May 2025 09:53 | JC/MD | Ok |
| 4 | VX0523WBL01 | VX046333.D | 23 May 2025 10:16 | JC/MD | Ok |
| 5 | VX0523WBS01 | VX046334.D | 23 May 2025 10:57 | JC/MD | Ok,M |
| 6 | VX0523MBS01 | VX046335.D | 23 May 2025 11:23 | JC/MD | Ok,M |
| 7 | Q2075-06ME | VX046336.D | 23 May 2025 11:46 | JC/MD | Ok |
| 8 | VX0523WBSD01 | VX046337.D | 23 May 2025 12:10 | JC/MD | Ok,M |
| 9 | Q2120-01 | VX046338.D | 23 May 2025 12:33 | JC/MD | Ok |
| 10 | Q2120-02 | VX046339.D | 23 May 2025 12:56 | JC/MD | ReRun |
| 11 | Q2118-01 | VX046340.D | 23 May 2025 13:20 | JC/MD | Ok |
| 12 | Q2118-05 | VX046341.D | 23 May 2025 13:43 | JC/MD | Ok |
| 13 | Q2118-02 | VX046342.D | 23 May 2025 14:06 | JC/MD | Ok |
| 14 | Q2118-03 | VX046343.D | 23 May 2025 14:29 | JC/MD | Ok |
| 15 | Q2118-04 | VX046344.D | 23 May 2025 14:53 | JC/MD | Ok |
| 16 | Q2118-06 | VX046345.D | 23 May 2025 15:16 | JC/MD | Ok |
| 17 | Q2118-08 | VX046346.D | 23 May 2025 15:39 | JC/MD | Ok |
| 18 | Q2118-09 | VX046347.D | 23 May 2025 16:03 | JC/MD | Ok |
| 19 | Q2118-10 | VX046348.D | 23 May 2025 16:26 | JC/MD | Ok |
| 20 | Q2114-02 | VX046349.D | 23 May 2025 16:49 | JC/MD | Ok |
| 21 | Q2106-01 | VX046350.D | 23 May 2025 17:12 | JC/MD | Ok |

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX052325

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/23/2025 4:14:57 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 5/26/2025 5:42:25 AM | | |
| SubDirectory | VX052325 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134008 |
| Initial Calibration Stds | |
| CCC | VP134009,VP134010 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2114-01 | VX046351.D | 23 May 2025 17:36 | JC/MD | Ok |
| 23 | Q2123-01 | VX046352.D | 23 May 2025 17:59 | JC/MD | Ok |
| 24 | Q2123-02 | VX046353.D | 23 May 2025 18:22 | JC/MD | Ok |
| 25 | Q2123-03 | VX046354.D | 23 May 2025 18:45 | JC/MD | Ok |
| 26 | Q2123-04 | VX046355.D | 23 May 2025 19:09 | JC/MD | Ok |
| 27 | Q2120-02 | VX046356.D | 23 May 2025 19:32 | JC/MD | Ok |
| 28 | VSTDCCC050 | VX046357.D | 23 May 2025 19:55 | JC/MD | Ok,M |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 5/16/2025 11:49:17 AM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 5/16/2025 11:51:38 AM | | | | |
| SubDirectory | VY051525 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y051525s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133916 |
| Initial Calibration Stds | VP133918,VP133919,VP133920,VP133921,VP133922,VP133923 |
| CCC | VP133925 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP133924 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY022252.D | 15 May 2025 07:52 | SY/MD | Ok |
| 2 | VSTDICC005 | VY022253.D | 15 May 2025 09:46 | SY/MD | Ok,M |
| 3 | VSTDICC010 | VY022254.D | 15 May 2025 10:16 | SY/MD | Ok,M |
| 4 | VSTDICC020 | VY022255.D | 15 May 2025 10:39 | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VY022256.D | 15 May 2025 11:02 | SY/MD | Ok,M |
| 6 | VSTDICC100 | VY022257.D | 15 May 2025 11:24 | SY/MD | Ok,M |
| 7 | VSTDICC150 | VY022258.D | 15 May 2025 11:47 | SY/MD | Ok,M |
| 8 | VIBLK | VY022259.D | 15 May 2025 12:34 | SY/MD | Ok |
| 9 | VSTDICV050 | VY022260.D | 15 May 2025 13:20 | SY/MD | Ok,M |
| 10 | VY0515SBL01 | VY022261.D | 15 May 2025 13:44 | SY/MD | Ok |
| 11 | VY0515SBS01 | VY022262.D | 15 May 2025 14:07 | SY/MD | Ok,M |
| 12 | VY0515SBSD01 | VY022263.D | 15 May 2025 14:29 | SY/MD | Ok,M |
| 13 | Q1984-01 | VY022264.D | 15 May 2025 15:12 | SY/MD | Ok |
| 14 | Q1984-03 | VY022265.D | 15 May 2025 15:35 | SY/MD | Ok |
| 15 | Q1984-05 | VY022266.D | 15 May 2025 15:59 | SY/MD | Ok |
| 16 | Q1984-07 | VY022267.D | 15 May 2025 16:22 | SY/MD | ReRun |
| 17 | Q1984-09 | VY022268.D | 15 May 2025 16:46 | SY/MD | Not Ok |
| 18 | Q1984-11 | VY022269.D | 15 May 2025 17:09 | SY/MD | Not Ok |
| 19 | Q1984-13 | VY022270.D | 15 May 2025 17:33 | SY/MD | Not Ok |
| 20 | Q1984-15 | VY022271.D | 15 May 2025 17:56 | SY/MD | ReRun |
| 21 | Q1982-04 | VY022272.D | 15 May 2025 18:19 | SY/MD | Ok |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 5/16/2025 11:49:17 AM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 5/16/2025 11:51:38 AM | | | | |
| SubDirectory | VY051525 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y051525s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133916 |
| Initial Calibration Stds | VP133918,VP133919,VP133920,VP133921,VP133922,VP133923 |
| CCC | VP133925 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP133924 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q1982-05 | VY022273.D | 15 May 2025 18:43 | SY/MD | Ok |
| 23 | Q1982-06 | VY022274.D | 15 May 2025 19:06 | SY/MD | Ok |
| 24 | VSTDCCC050 | VY022275.D | 15 May 2025 19:52 | SY/MD | Ok,M |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY052025

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 5/21/2025 3:43:30 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 5/23/2025 2:22:55 AM | | | | |
| SubDirectory | VY052025 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y051525s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133969 |
| Initial Calibration Stds | |
| CCC | VP133970,VP133971 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY022328.D | 20 May 2025 08:09 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY022329.D | 20 May 2025 08:40 | SY/MD | Ok,M |
| 3 | VY0520SBL01 | VY022330.D | 20 May 2025 09:48 | SY/MD | Ok |
| 4 | VY0520SBS01 | VY022331.D | 20 May 2025 10:21 | SY/MD | Ok,M |
| 5 | VY0520SBSD01 | VY022332.D | 20 May 2025 10:43 | SY/MD | Ok,M |
| 6 | Q2062-19 | VY022333.D | 20 May 2025 11:28 | SY/MD | Ok |
| 7 | Q2062-23 | VY022334.D | 20 May 2025 11:51 | SY/MD | Ok |
| 8 | Q2071-11 | VY022335.D | 20 May 2025 12:15 | SY/MD | Ok |
| 9 | Q2056-02 | VY022336.D | 20 May 2025 12:38 | SY/MD | Ok |
| 10 | Q2056-03 | VY022337.D | 20 May 2025 13:01 | SY/MD | Ok |
| 11 | Q2056-04 | VY022338.D | 20 May 2025 13:25 | SY/MD | Ok |
| 12 | Q2056-05 | VY022339.D | 20 May 2025 13:48 | SY/MD | Not Ok |
| 13 | Q2080-02 | VY022340.D | 20 May 2025 14:12 | SY/MD | Ok |
| 14 | Q2080-08 | VY022341.D | 20 May 2025 14:35 | SY/MD | Ok |
| 15 | Q2032-02 | VY022342.D | 20 May 2025 14:59 | SY/MD | Ok |
| 16 | Q2075-01 | VY022343.D | 20 May 2025 15:22 | SY/MD | Ok |
| 17 | Q2075-02 | VY022344.D | 20 May 2025 15:45 | SY/MD | Ok |
| 18 | Q2075-03 | VY022345.D | 20 May 2025 16:09 | SY/MD | Ok |
| 19 | Q2084-02 | VY022346.D | 20 May 2025 16:32 | SY/MD | Ok |
| 20 | Q2032-01 | VY022347.D | 20 May 2025 16:56 | SY/MD | Dilution |
| 21 | Q2032-05MS | VY022348.D | 20 May 2025 17:19 | SY/MD | Ok,M |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY052025

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 5/21/2025 3:43:30 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 5/23/2025 2:22:55 AM | | | | |
| SubDirectory | VY052025 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y051525s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133969 |
| Initial Calibration Stds | |
| CCC | VP133970,VP133971 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2032-06MSD | VY022349.D | 20 May 2025 17:41 | SY/MD | Ok,M |
| 23 | Q2075-04MS | VY022350.D | 20 May 2025 18:04 | SY/MD | Ok,M |
| 24 | Q2075-05MSD | VY022351.D | 20 May 2025 18:26 | SY/MD | Ok,M |
| 25 | VSTDCCC050 | VY022352.D | 20 May 2025 19:34 | SY/MD | Ok,M |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY052225

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/23/2025 11:05:57 AM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/23/2025 4:07:06 PM | | | | |
| SubDirectory | VY052225 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y051525s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134001 |
| Initial Calibration Stds | |
| CCC | VP134002,VP134003 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY022379.D | 22 May 2025 08:05 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY022380.D | 22 May 2025 08:35 | SY/MD | Ok,M |
| 3 | VY0522SBL01 | VY022381.D | 22 May 2025 09:07 | SY/MD | Ok |
| 4 | VY0522SBS01 | VY022382.D | 22 May 2025 09:36 | SY/MD | Ok,M |
| 5 | VY0522SBSD01 | VY022383.D | 22 May 2025 09:59 | SY/MD | Ok,M |
| 6 | Q2087-03RE | VY022384.D | 22 May 2025 10:38 | SY/MD | Confirms |
| 7 | Q2101-03 | VY022385.D | 22 May 2025 11:01 | SY/MD | Ok |
| 8 | Q2097-11RE | VY022386.D | 22 May 2025 11:25 | SY/MD | Confirms |
| 9 | Q2102-01 | VY022387.D | 22 May 2025 11:48 | SY/MD | Ok |
| 10 | Q2104-01RE | VY022388.D | 22 May 2025 12:11 | SY/MD | Confirms |
| 11 | Q2074-01 | VY022389.D | 22 May 2025 12:35 | SY/MD | Ok |
| 12 | Q2074-02 | VY022390.D | 22 May 2025 12:58 | SY/MD | Ok |
| 13 | Q2074-03 | VY022391.D | 22 May 2025 13:22 | SY/MD | Ok |
| 14 | Q2074-04 | VY022392.D | 22 May 2025 13:45 | SY/MD | Ok |
| 15 | Q2074-05 | VY022393.D | 22 May 2025 14:09 | SY/MD | Ok |
| 16 | Q2074-06 | VY022394.D | 22 May 2025 14:32 | SY/MD | Ok |
| 17 | Q2074-07 | VY022395.D | 22 May 2025 14:55 | SY/MD | Ok |
| 18 | Q2074-08 | VY022396.D | 22 May 2025 15:19 | SY/MD | Ok |
| 19 | Q2100-01 | VY022397.D | 22 May 2025 15:42 | SY/MD | ReRun |
| 20 | Q2100-02 | VY022398.D | 22 May 2025 16:06 | SY/MD | Ok |
| 21 | Q2100-03 | VY022399.D | 22 May 2025 16:29 | SY/MD | Not Ok |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY052225

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/23/2025 11:05:57 AM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/23/2025 4:07:06 PM | | | | |
| SubDirectory | VY052225 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y051525s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134001 |
| Initial Calibration Stds | |
| CCC | VP134002,VP134003 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2100-04 | VY022400.D | 22 May 2025 16:53 | SY/MD | Ok |
| 23 | Q2112-01 | VY022401.D | 22 May 2025 17:16 | SY/MD | ReRun |
| 24 | Q2109-03 | VY022402.D | 22 May 2025 17:40 | SY/MD | Ok |
| 25 | Q2075-06 | VY022403.D | 22 May 2025 18:03 | SY/MD | Dilution |
| 26 | VIBLK | VY022404.D | 22 May 2025 18:26 | SY/MD | Ok |
| 27 | VSTDCCC050 | VY022405.D | 22 May 2025 18:49 | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX050525

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/6/2025 9:53:58 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/6/2025 12:43:00 PM | | |
| SubDirectory | VX050525 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133811 |
| Initial Calibration Stds | VP133832,VP133833,VP133834,VP133835,VP133836,VP133837 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP133838 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VX046038.D | 05 May 2025 09:37 | | JC/MD | Ok |
| 2 | VSTDICC001 | VSTDICC001 | VX046039.D | 05 May 2025 10:49 | Not used | JC/MD | Not Ok |
| 3 | VSTDICC005 | VSTDICC005 | VX046040.D | 05 May 2025 11:12 | Not used | JC/MD | Not Ok |
| 4 | VSTDICC020 | VSTDICC020 | VX046041.D | 05 May 2025 11:35 | | JC/MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VX046042.D | 05 May 2025 11:58 | | JC/MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VX046043.D | 05 May 2025 12:21 | | JC/MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VX046044.D | 05 May 2025 12:45 | | JC/MD | Ok,M |
| 8 | IBLK | IBLK | VX046045.D | 05 May 2025 13:08 | | JC/MD | Ok |
| 9 | VSTDICC005 | VSTDICC005 | VX046046.D | 05 May 2025 16:04 | | JC/MD | Ok,M |
| 10 | VSTDICC001 | VSTDICC001 | VX046047.D | 05 May 2025 16:27 | | JC/MD | Ok,M |
| 11 | VSTDICV050 | ICVVX050525 | VX046048.D | 05 May 2025 16:50 | | JC/MD | Ok,M |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX052125

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/22/2025 7:44:17 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/22/2025 8:23:40 AM | | |
| SubDirectory | VX052125 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133985 |
| Initial Calibration Stds | |
| CCC | VP133986,VP133987 |
| 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 | VX046283.D | 21 May 2025 09:13 | | JC/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VX046284.D | 21 May 2025 09:55 | pH#Lot#V12668 | JC/MD | Ok,M |
| 3 | VX0521MBL01 | VX0521MBL01 | VX046285.D | 21 May 2025 10:22 | | JC/MD | Ok |
| 4 | VX0521WBL01 | VX0521WBL01 | VX046286.D | 21 May 2025 10:46 | | JC/MD | Ok |
| 5 | VX0521WBS01 | VX0521WBS01 | VX046287.D | 21 May 2025 11:09 | | JC/MD | Ok,M |
| 6 | VX0521WBSD01 | VX0521WBSD01 | VX046288.D | 21 May 2025 11:36 | | JC/MD | Ok,M |
| 7 | Q2065-01 | VACTRUCK-728068 | VX046289.D | 21 May 2025 11:59 | vial A pH<2 oily sample | JC/MD | Ok |
| 8 | Q2068-03 | LAW-25-0074 | VX046290.D | 21 May 2025 12:23 | vial A pH<2 turbid sample | JC/MD | Ok |
| 9 | Q2093-14 | WATER-COMP | VX046291.D | 21 May 2025 12:46 | vial A pH<2 | JC/MD | Ok |
| 10 | Q2075-07 | FB-05152025 | VX046292.D | 21 May 2025 13:09 | vial A pH<2 FB | JC/MD | Ok |
| 11 | Q2075-08 | FB-05162025 | VX046293.D | 21 May 2025 13:32 | vial A pH<2 FB | JC/MD | Ok |
| 12 | Q2082-01 | BP-VPB-182-GW-2025 | VX046294.D | 21 May 2025 13:56 | vial A pH<2 TB | JC/MD | Ok |
| 13 | Q2082-04 | BP-VPB-182-GW-300-3 | VX046295.D | 21 May 2025 14:19 | vial A+B pH<2 | JC/MD | Ok |
| 14 | Q2082-12 | VPB182-HYD-2025051 | VX046296.D | 21 May 2025 14:42 | vial A pH<2 | JC/MD | Ok |
| 15 | Q2082-02 | BP-VPB-182-GW-260-2 | VX046297.D | 21 May 2025 15:05 | vial A pH<2 | JC/MD | Ok |
| 16 | Q2082-03 | BP-VPB-182-GW-280-2 | VX046298.D | 21 May 2025 15:29 | vial A pH<2 | JC/MD | Ok |
| 17 | Q2082-05 | BP-VPB-182-GW-320-3 | VX046299.D | 21 May 2025 15:52 | vial A pH<2 | JC/MD | Ok |
| 18 | Q2082-07 | BP-VPB-182-GW-360-3 | VX046300.D | 21 May 2025 16:15 | vial A pH<2 | JC/MD | Ok |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX052125

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/22/2025 7:44:17 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/22/2025 8:23:40 AM | | |
| SubDirectory | VX052125 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133985 |
| Initial Calibration Stds | |
| CCC | VP133986,VP133987 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2082-08 | BP-VPB-182-GW-390-3 | VX046301.D | 21 May 2025 16:39 | vial A pH<2 | JC/MD | Ok |
| 20 | Q2088-01 | 252820 | VX046302.D | 21 May 2025 17:02 | vial A pH<2 | JC/MD | Ok |
| 21 | Q2096-01 | 50684 | VX046303.D | 21 May 2025 17:25 | vial A pH<2 Very foamy sample | JC/MD | Ok |
| 22 | Q2102-03 | LAW-25-0078 | VX046304.D | 21 May 2025 17:48 | Need Straight Run | JC/MD | Not Ok |
| 23 | IBLK | IBLK | VX046305.D | 21 May 2025 18:12 | | JC/MD | Ok |
| 24 | Q2082-09 | BP-VPB-182-GW-400-4 | VX046306.D | 21 May 2025 18:35 | vial A pH<2 | JC/MD | Ok |
| 25 | Q2082-10MS | BP-VPB-182-GW-400-4 | VX046307.D | 21 May 2025 18:58 | vial A pH<2 | JC/MD | Ok,M |
| 26 | Q2082-11MSD | BP-VPB-182-GW-400-4 | VX046308.D | 21 May 2025 19:21 | vial A pH<2 | JC/MD | Ok,M |
| 27 | VSTDCCC050 | VSTDCCC050EC | VX046309.D | 21 May 2025 19:44 | | JC/MD | Ok,M |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX052325

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/23/2025 4:14:57 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 5/26/2025 5:42:25 AM | | |
| SubDirectory | VX052325 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134008 |
| Initial Calibration Stds | |
| CCC | VP134009,VP134010 |
| 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 | VX046330.D | 23 May 2025 08:25 | | JC/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VX046331.D | 23 May 2025 09:24 | | JC/MD | Ok,M |
| 3 | VX0523MBL01 | VX0523MBL01 | VX046332.D | 23 May 2025 09:53 | | JC/MD | Ok |
| 4 | VX0523WBL01 | VX0523WBL01 | VX046333.D | 23 May 2025 10:16 | | JC/MD | Ok |
| 5 | VX0523WBS01 | VX0523WBS01 | VX046334.D | 23 May 2025 10:57 | | JC/MD | Ok,M |
| 6 | VX0523MBS01 | VX0523MBS01 | VX046335.D | 23 May 2025 11:23 | | JC/MD | Ok,M |
| 7 | Q2075-06ME | SS-MW1-11.5ME | VX046336.D | 23 May 2025 11:46 | | JC/MD | Ok |
| 8 | VX0523WBSD01 | VX0523WBSD01 | VX046337.D | 23 May 2025 12:10 | | JC/MD | Ok,M |
| 9 | Q2120-01 | VPB182-HYD-2025052 | VX046338.D | 23 May 2025 12:33 | | JC/MD | Ok |
| 10 | Q2120-02 | BP-VPB-182-EB-20250 | VX046339.D | 23 May 2025 12:56 | EB,Hit of com.#16 | JC/MD | ReRun |
| 11 | Q2118-01 | BP-TPB-TB-20250520 | VX046340.D | 23 May 2025 13:20 | TB | JC/MD | Ok |
| 12 | Q2118-05 | BP-TPB-182-GW-460-4 | VX046341.D | 23 May 2025 13:43 | | JC/MD | Ok |
| 13 | Q2118-02 | BP-TPB-182-GW-420-4 | VX046342.D | 23 May 2025 14:06 | | JC/MD | Ok |
| 14 | Q2118-03 | BP-TPB-182-GW-450-4 | VX046343.D | 23 May 2025 14:29 | | JC/MD | Ok |
| 15 | Q2118-04 | BP-TPB-182-DUP-2025 | VX046344.D | 23 May 2025 14:53 | | JC/MD | Ok |
| 16 | Q2118-06 | BP-TPB-182-GW-480-4 | VX046345.D | 23 May 2025 15:16 | | JC/MD | Ok |
| 17 | Q2118-08 | BP-TPB-182-GW-520-5 | VX046346.D | 23 May 2025 15:39 | | JC/MD | Ok |
| 18 | Q2118-09 | BP-TPB-182-GW-540-5 | VX046347.D | 23 May 2025 16:03 | | JC/MD | Ok |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX052325

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/23/2025 4:14:57 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 5/26/2025 5:42:25 AM | | |
| SubDirectory | VX052325 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134008 |
| Initial Calibration Stds | |
| CCC | VP134009,VP134010 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2118-10 | BP-TPB-182-GW-560-5 | VX046348.D | 23 May 2025 16:26 | | JC/MD | Ok |
| 20 | Q2114-02 | FB | VX046349.D | 23 May 2025 16:49 | FB | JC/MD | Ok |
| 21 | Q2106-01 | TW-WTS-09 | VX046350.D | 23 May 2025 17:12 | | JC/MD | Ok |
| 22 | Q2114-01 | GAW1 | VX046351.D | 23 May 2025 17:36 | | JC/MD | Ok |
| 23 | Q2123-01 | STORAGE-BLANK-SO | VX046352.D | 23 May 2025 17:59 | | JC/MD | Ok |
| 24 | Q2123-02 | STORAGE-BLANK-WA | VX046353.D | 23 May 2025 18:22 | | JC/MD | Ok |
| 25 | Q2123-03 | STORAGE-BLANK-WA | VX046354.D | 23 May 2025 18:45 | | JC/MD | Ok |
| 26 | Q2123-04 | STORAGE-BLANK-SA | VX046355.D | 23 May 2025 19:09 | | JC/MD | Ok |
| 27 | Q2120-02 | BP-VPB-182-EB-20250 | VX046356.D | 23 May 2025 19:32 | EB | JC/MD | Ok |
| 28 | VSTDCCC050 | VSTDCCC050EC | VX046357.D | 23 May 2025 19:55 | | JC/MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 5/16/2025 11:49:17 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 5/16/2025 11:51:38 AM | | |
| SubDirectory | VY051525 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y051525s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133916 |
| Initial Calibration Stds | VP133918,VP133919,VP133920,VP133921,VP133922,VP133923 |
| CCC | VP133925 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP133924 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY022252.D | 15 May 2025 07:52 | | SY/MD | Ok |
| 2 | VSTDICC005 | VSTDICC005 | VY022253.D | 15 May 2025 09:46 | | SY/MD | Ok,M |
| 3 | VSTDICC010 | VSTDICC010 | VY022254.D | 15 May 2025 10:16 | | SY/MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VY022255.D | 15 May 2025 10:39 | | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VY022256.D | 15 May 2025 11:02 | | SY/MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VY022257.D | 15 May 2025 11:24 | | SY/MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VY022258.D | 15 May 2025 11:47 | | SY/MD | Ok,M |
| 8 | VIBLK | VIBLK | VY022259.D | 15 May 2025 12:34 | | SY/MD | Ok |
| 9 | VSTDICV050 | ICVVY051525 | VY022260.D | 15 May 2025 13:20 | | SY/MD | Ok,M |
| 10 | VY0515SBL01 | VY0515SBL01 | VY022261.D | 15 May 2025 13:44 | | SY/MD | Ok |
| 11 | VY0515SBS01 | VY0515SBS01 | VY022262.D | 15 May 2025 14:07 | | SY/MD | Ok,M |
| 12 | VY0515SBSD01 | VY0515SBSD01 | VY022263.D | 15 May 2025 14:29 | | SY/MD | Ok,M |
| 13 | Q1984-01 | OU4-PCS-TC-33-05072 | VY022264.D | 15 May 2025 15:12 | vial-A | SY/MD | Ok |
| 14 | Q1984-03 | OU4-PCS-TC-34-05072 | VY022265.D | 15 May 2025 15:35 | vial-A | SY/MD | Ok |
| 15 | Q1984-05 | OU4-PCS-TC-35-05072 | VY022266.D | 15 May 2025 15:59 | vial-A | SY/MD | Ok |
| 16 | Q1984-07 | OU4-TS-24-050725 | VY022267.D | 15 May 2025 16:22 | vial-A Surrogate fail | SY/MD | ReRun |
| 17 | Q1984-09 | OU4-TS-25-050725 | VY022268.D | 15 May 2025 16:46 | vial-A Surrogate fail | SY/MD | Not Ok |
| 18 | Q1984-11 | OU4-TS-26-050725 | VY022269.D | 15 May 2025 17:09 | vial-A Surrogate fail | SY/MD | Not Ok |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 5/16/2025 11:49:17 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 5/16/2025 11:51:38 AM | | |
| SubDirectory | VY051525 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y051525s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133916 |
| Initial Calibration Stds | VP133918,VP133919,VP133920,VP133921,VP133922,VP133923 |
| CCC | VP133925 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP133924 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q1984-13 | OU4-TS-27-050725 | VY022270.D | 15 May 2025 17:33 | vial-A Surrogate fail | SY/MD | Not Ok |
| 20 | Q1984-15 | OU4-TS-28-050725 | VY022271.D | 15 May 2025 17:56 | vial-A Surrogate fail | SY/MD | ReRun |
| 21 | Q1982-04 | TP-4 | VY022272.D | 15 May 2025 18:19 | vial-A | SY/MD | Ok |
| 22 | Q1982-05 | TP-5 | VY022273.D | 15 May 2025 18:43 | vial-A | SY/MD | Ok |
| 23 | Q1982-06 | TP-6 | VY022274.D | 15 May 2025 19:06 | vial-A | SY/MD | Ok |
| 24 | VSTDCCC050 | VSTDCCC050EC | VY022275.D | 15 May 2025 19:52 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY052025

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 5/21/2025 3:43:30 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 5/23/2025 2:22:55 AM | | |
| SubDirectory | VY052025 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y051525s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133969 |
| Initial Calibration Stds | |
| CCC | VP133970,VP133971 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY022328.D | 20 May 2025 08:09 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY022329.D | 20 May 2025 08:40 | | SY/MD | Ok,M |
| 3 | VY0520SBL01 | VY0520SBL01 | VY022330.D | 20 May 2025 09:48 | | SY/MD | Ok |
| 4 | VY0520SBS01 | VY0520SBS01 | VY022331.D | 20 May 2025 10:21 | | SY/MD | Ok,M |
| 5 | VY0520SBSD01 | VY0520SBSD01 | VY022332.D | 20 May 2025 10:43 | | SY/MD | Ok,M |
| 6 | Q2062-19 | L1-WC-5-VOC | VY022333.D | 20 May 2025 11:28 | vial-B | SY/MD | Ok |
| 7 | Q2062-23 | L1-WC-6-VOC | VY022334.D | 20 May 2025 11:51 | vial-B | SY/MD | Ok |
| 8 | Q2071-11 | L1-WC-9-VOC | VY022335.D | 20 May 2025 12:15 | vial-B | SY/MD | Ok |
| 9 | Q2056-02 | GVD12 | VY022336.D | 20 May 2025 12:38 | vial-B | SY/MD | Ok |
| 10 | Q2056-03 | GVD13 | VY022337.D | 20 May 2025 13:01 | vial-B | SY/MD | Ok |
| 11 | Q2056-04 | GVD14 | VY022338.D | 20 May 2025 13:25 | vial-A | SY/MD | Ok |
| 12 | Q2056-05 | GVD15 | VY022339.D | 20 May 2025 13:48 | vial-A Internal standard fail | SY/MD | Not Ok |
| 13 | Q2080-02 | PL-HRH-VOC-01 | VY022340.D | 20 May 2025 14:12 | vial-A | SY/MD | Ok |
| 14 | Q2080-08 | PL-HRH-VOC-02 | VY022341.D | 20 May 2025 14:35 | vial-A | SY/MD | Ok |
| 15 | Q2032-02 | TP-29 | VY022342.D | 20 May 2025 14:59 | vial-A | SY/MD | Ok |
| 16 | Q2075-01 | SS-10 | VY022343.D | 20 May 2025 15:22 | vial-A | SY/MD | Ok |
| 17 | Q2075-02 | SS-910 | VY022344.D | 20 May 2025 15:45 | vial-A | SY/MD | Ok |
| 18 | Q2075-03 | SS-11 | VY022345.D | 20 May 2025 16:09 | vial-A | SY/MD | Ok |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY052025

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 5/21/2025 3:43:30 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 5/23/2025 2:22:55 AM | | |
| SubDirectory | VY052025 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y051525s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133969 |
| Initial Calibration Stds | |
| CCC | VP133970,VP133971 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2084-02 | OR-640-VOC-66 | VY022346.D | 20 May 2025 16:32 | vial-A | SY/MD | Ok |
| 20 | Q2032-01 | TP-11 | VY022347.D | 20 May 2025 16:56 | vial-A Surrogate fail;Need MeOH | SY/MD | Dilution |
| 21 | Q2032-05MS | TP-24MS | VY022348.D | 20 May 2025 17:19 | vial-B | SY/MD | Ok,M |
| 22 | Q2032-06MSD | TP-24MSD | VY022349.D | 20 May 2025 17:41 | vial-B Internal standard fail | SY/MD | Ok,M |
| 23 | Q2075-04MS | SS-11MS | VY022350.D | 20 May 2025 18:04 | vial-A | SY/MD | Ok,M |
| 24 | Q2075-05MSD | SS-11MSD | VY022351.D | 20 May 2025 18:26 | vial-A | SY/MD | Ok,M |
| 25 | VSTDCCC050 | VSTDCCC050EC | VY022352.D | 20 May 2025 19:34 | ENDCCC failed for com.#06 | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY052225

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/23/2025 11:05:57 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/23/2025 4:07:06 PM | | |
| SubDirectory | VY052225 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y051525s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134001 |
| Initial Calibration Stds | |
| CCC | VP134002,VP134003 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY022379.D | 22 May 2025 08:05 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY022380.D | 22 May 2025 08:35 | | SY/MD | Ok,M |
| 3 | VY0522SBL01 | VY0522SBL01 | VY022381.D | 22 May 2025 09:07 | | SY/MD | Ok |
| 4 | VY0522SBS01 | VY0522SBS01 | VY022382.D | 22 May 2025 09:36 | | SY/MD | Ok,M |
| 5 | VY0522SBSD01 | VY0522SBSD01 | VY022383.D | 22 May 2025 09:59 | | SY/MD | Ok,M |
| 6 | Q2087-03RE | NB-08-05202025RE | VY022384.D | 22 May 2025 10:38 | vial-B ,Internal Standard Fail | SY/MD | Confirms |
| 7 | Q2101-03 | TP-1-MHE-VOC | VY022385.D | 22 May 2025 11:01 | vial-B | SY/MD | Ok |
| 8 | Q2097-11RE | RT3419RE | VY022386.D | 22 May 2025 11:25 | vial-B ,Internal Standard Fail | SY/MD | Confirms |
| 9 | Q2102-01 | LAW-25-0077 | VY022387.D | 22 May 2025 11:48 | vial-B | SY/MD | Ok |
| 10 | Q2104-01RE | TR-06-052125RE | VY022388.D | 22 May 2025 12:11 | vial-B ,Internal Standard Fail; Surrogate Fail | SY/MD | Confirms |
| 11 | Q2074-01 | TP-12 | VY022389.D | 22 May 2025 12:35 | vial-A | SY/MD | Ok |
| 12 | Q2074-02 | TP-7 | VY022390.D | 22 May 2025 12:58 | vial-A | SY/MD | Ok |
| 13 | Q2074-03 | TP-15 | VY022391.D | 22 May 2025 13:22 | vial-A | SY/MD | Ok |
| 14 | Q2074-04 | TP-20 | VY022392.D | 22 May 2025 13:45 | vial-A | SY/MD | Ok |
| 15 | Q2074-05 | TP-38 | VY022393.D | 22 May 2025 14:09 | vial-A | SY/MD | Ok |
| 16 | Q2074-06 | TP-19 | VY022394.D | 22 May 2025 14:32 | vial-A | SY/MD | Ok |
| 17 | Q2074-07 | TP-40 | VY022395.D | 22 May 2025 14:55 | vial-A | SY/MD | Ok |

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Fax : 908 789 8922

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY052225

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/23/2025 11:05:57 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/23/2025 4:07:06 PM | | |
| SubDirectory | VY052225 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y051525s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134001 |
| Initial Calibration Stds | |
| CCC | VP134002,VP134003 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Q2074-08 | TP-18 | VY022396.D | 22 May 2025 15:19 | vial-A | SY/MD | Ok |
| 19 | Q2100-01 | TP-16 | VY022397.D | 22 May 2025 15:42 | vial-A ,Internal Standard Fail | SY/MD | ReRun |
| 20 | Q2100-02 | TP-22 | VY022398.D | 22 May 2025 16:06 | vial-A | SY/MD | Ok |
| 21 | Q2100-03 | TP-21 | VY022399.D | 22 May 2025 16:29 | vial-A ,Not purge | SY/MD | Not Ok |
| 22 | Q2100-04 | TP-45 | VY022400.D | 22 May 2025 16:53 | vial-A | SY/MD | Ok |
| 23 | Q2112-01 | EO-03-05222025 | VY022401.D | 22 May 2025 17:16 | vial-A ,Internal Standard Fail | SY/MD | ReRun |
| 24 | Q2109-03 | TP-02-MHF-VOC | VY022402.D | 22 May 2025 17:40 | vial-A | SY/MD | Ok |
| 25 | Q2075-06 | SS-MW1-11.5 | VY022403.D | 22 May 2025 18:03 | vial-A ,Need MeOH | SY/MD | Dilution |
| 26 | VIBLK | VIBLK | VY022404.D | 22 May 2025 18:26 | | SY/MD | Ok |
| 27 | VSTDCCC050 | VSTDCCC050EC | VY022405.D | 22 May 2025 18:49 | | SY/MD | Ok,M |

M : Manual Integration

Alliance TECHNICAL GROUP

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 5/20/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:10
**In Date:** 05/19/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:22
**Out Date:** 05/20/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB135825

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| Q1984-19 | OU4-TB01-050725 | 1 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | T.B. |
| Q2074-01 | TP-12 | 2 | 1.18 | 10.28 | 11.46 | 9.76 | 83.5 | |
| Q2074-02 | TP-7 | 3 | 1.18 | 10.15 | 11.33 | 10.18 | 88.7 | |
| Q2074-03 | TP-15 | 4 | 1.13 | 10.33 | 11.46 | 10.12 | 87.0 | |
| Q2074-04 | TP-20 | 5 | 1.12 | 10.65 | 11.77 | 10.1 | 84.3 | |
| Q2074-05 | TP-38 | 6 | 1.18 | 10.19 | 11.37 | 9.53 | 81.9 | |
| Q2074-06 | TP-19 | 7 | 1.16 | 10.12 | 11.28 | 9.85 | 85.9 | |
| Q2074-07 | TP-40 | 8 | 1.14 | 9.89 | 11.03 | 9.96 | 89.2 | |
| Q2074-08 | TP-18 | 9 | 1.15 | 10.16 | 11.31 | 9.07 | 78.0 | |
| Q2075-01 | SS-10 | 10 | 1.16 | 10.56 | 11.72 | 9.59 | 79.8 | |
| Q2075-02 | SS-910 | 11 | 1.17 | 10.05 | 11.22 | 9.34 | 81.3 | |
| Q2075-03 | SS-11 | 12 | 1.18 | 10.51 | 11.69 | 10.37 | 87.4 | |
| Q2075-04 | Q2075-03MS | 13 | 1.18 | 10.51 | 11.69 | 10.37 | 87.4 | |
| Q2075-05 | Q2075-03MSD | 14 | 1.18 | 10.51 | 11.69 | 10.37 | 87.4 | |
| Q2075-06 | SS-MW1-11.5 | 15 | 1.14 | 10.00 | 11.14 | 10.24 | 91.0 | |
| Q2076-01 | OILY-DEBRIS | 16 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oily-debris |
| Q2080-01 | PL-HRH-COMP-01 | 17 | 1.13 | 10.62 | 11.75 | 10.32 | 86.5 | |
| Q2080-02 | PL-HRH-VOC-01 | 18 | 1.17 | 10.22 | 11.39 | 9.6 | 82.5 | |
| Q2080-03 | PL-HRH-01 | 19 | 1.12 | 10.77 | 11.89 | 10.16 | 83.9 | |
| Q2080-04 | PL-HRH-02 | 20 | 1.16 | 10.40 | 11.56 | 9.82 | 83.3 | |
| Q2080-05 | PL-HRH-03 | 21 | 1.15 | 10.00 | 11.15 | 9.43 | 82.8 | |
| Q2080-07 | PL-HRH-COMP-02 | 22 | 1.19 | 10.46 | 11.65 | 9.62 | 80.6 | |
| Q2080-08 | PL-HRH-VOC-02 | 23 | 1.14 | 10.76 | 11.9 | 9.8 | 80.5 | |
| Q2080-09 | PL-HRH-04 | 24 | 1.16 | 10.70 | 11.86 | 9.55 | 78.4 | |
| Q2080-10 | PL-HRH-05 | 25 | 1.19 | 10.43 | 11.62 | 9.52 | 79.9 | |
| Q2080-11 | PL-HRH-06 | 26 | 1.13 | 10.74 | 11.87 | 10.2 | 84.5 | |
| Q2081-01 | CAULK | 27 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | caluk |

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 5/20/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:10
**In Date:** 05/19/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:22
**Out Date:** 05/20/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB135825

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

VB 135825

**WorkList Name :** %1-051925 **WorkList ID :** 189586 **Department :** Wet-Chemistry **Date :** 05-19-2025 08:23:15

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1984-19 | OU4-TB01-050725 | Solid | Percent Solids | Cool 4 deg C | NOBI03 | L41 | 05/07/2025 | Chemtech -SO |
| Q2074-01 | TP-12 | Solid | Percent Solids | Cool 4 deg C | CAMP02 | L31 | 05/16/2025 | Chemtech -SO |
| Q2074-02 | TP-7 | Solid | Percent Solids | Cool 4 deg C | CAMP02 | L31 | 05/16/2025 | Chemtech -SO |
| Q2074-03 | TP-15 | Solid | Percent Solids | Cool 4 deg C | CAMP02 | L31 | 05/16/2025 | Chemtech -SO |
| Q2074-04 | TP-20 | Solid | Percent Solids | Cool 4 deg C | CAMP02 | L31 | 05/16/2025 | Chemtech -SO |
| Q2074-05 | TP-38 | Solid | Percent Solids | Cool 4 deg C | CAMP02 | L31 | 05/16/2025 | Chemtech -SO |
| Q2074-06 | TP-19 | Solid | Percent Solids | Cool 4 deg C | CAMP02 | L31 | 05/16/2025 | Chemtech -SO |
| Q2074-07 | TP-40 | Solid | Percent Solids | Cool 4 deg C | CAMP02 | L31 | 05/16/2025 | Chemtech -SO |
| Q2074-08 | TP-18 | Solid | Percent Solids | Cool 4 deg C | CAMP02 | L31 | 05/16/2025 | Chemtech -SO |
| Q2075-01 | SS-10 | Solid | Percent Solids | Cool 4 deg C | CAMP02 | L31 | 05/16/2025 | Chemtech -SO |
| Q2075-02 | SS-910 | Solid | Percent Solids | Cool 4 deg C | CAMP02 | L41 | 05/15/2025 | Chemtech -SO |
| Q2075-03 | SS-11 | Solid | Percent Solids | Cool 4 deg C | CAMP02 | L41 | 05/15/2025 | Chemtech -SO |
| Q2075-04 | Q2075-03MS | Solid | Percent Solids | Cool 4 deg C | CAMP02 | L41 | 05/15/2025 | Chemtech -SO |
| Q2075-05 | Q2075-03MSD | Solid | Percent Solids | Cool 4 deg C | CAMP02 | L41 | 05/15/2025 | Chemtech -SO |
| Q2075-06 | SS-MW1-11.5 | Solid | Percent Solids | Cool 4 deg C | CAMP02 | L41 | 05/15/2025 | Chemtech -SO |
| Q2076-01 | OILY-DEBRIS | Solid | Percent Solids | Cool 4 deg C | CAMP02 | L41 | 05/16/2025 | Chemtech -SO |
| Q2080-01 | PL-HRH-COMP-01 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 05/19/2025 | Chemtech -SO |
| Q2080-02 | PL-HRH-VOC-01 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 05/19/2025 | Chemtech -SO |
| Q2080-03 | PL-HRH-01 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 05/19/2025 | Chemtech -SO |
| Q2080-04 | PL-HRH-02 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 05/19/2025 | Chemtech -SO |
| Q2080-05 | PL-HRH-03 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 05/19/2025 | Chemtech -SO |

**Date/Time** 05-19-25 15:35

**Raw Sample Received by:**

**Raw Sample Relinquished by:**

**Date/Time** 05-19-25 17:15

**Raw Sample Received by:**

**Raw Sample Relinquished by:**

VB 135825

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** %1-051925 **WorkList ID :** 189586 **Department :** Wet-Chemistry **Date :** 05-19-2025 08:23:15

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2080-07 | PL-HRH-COMP-02 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 05/19/2025 | Chemtech -SO |
| Q2080-08 | PL-HRH-VOC-02 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 05/19/2025 | Chemtech -SO |
| Q2080-09 | PL-HRH-04 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 05/19/2025 | Chemtech -SO |
| Q2080-10 | PL-HRH-05 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 05/19/2025 | Chemtech -SO |
| Q2080-11 | PL-HRH-06 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 05/19/2025 | Chemtech -SO |
| Q2081-01 | CAULK | Solid | Percent Solids | Cool 4 deg C | ATCE02 | L31 | 05/19/2025 | Chemtech -SO |

**Date/Time** 05.19.25 15:35

**Raw Sample Received by:**

**Raw Sample Relinquished by:**

**Date/Time** 05.19.25 17:15

**Raw Sample Received by:**

**Raw Sample Relinquished by:**

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

# Prep Standard - Chemical Standard Summary

**Order ID :** Q2075

**Test :** VOCMS Group3

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** VX052125,VX052325,vy052025,vy052225,

**Standard ID :**
VP132035,VP132036,VP132096,VP132098,VP133174,VP133175,VP133758,VP133759,VP133887,VP133888,VP133934,VP133935,VP133953,VP133969,VP133970,VP133971,VP133985,VP133986,VP133987,VP133991,VP133995,VP134001,VP134002,VP134003,VP134008,VP134009,VP134010,

**Chemical ID :**
V13391,V13457,V13460,V13465,V13466,V13706,V14290,V14432,V14435,V14503,V14504,V14525,V14526,V14613,V14614,V14615,V14620,V14626,V14630,V14631,V14632,V14633,V14711,V14717,V14718,V14721,V14749,V14750,V14811,V14812,V14843,V14915,V14916,V14917,V14918,V14921,V14944,V14945,V14946,V14947,W3112,

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1811 | 8260 Working Std(2-CVE)-500ppm | VP132036 | 12/10/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

**FROM** 7.50000ml of V14614 + 12.50000ml of VP132035 = Final Quantity: 20.000 ml

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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 |
|---|---|---|---|---|---|---|---|---|
| 252 | 8260 Working STD (BCM)-First source, 100PPM | VP132098 | 12/12/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/19/2024 |

**FROM** 1.25000ml of V13466 + 23.75000ml of V14614 = Final Quantity: 25.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 617 | 8260 Surrogate, 400PPM | VP133174 | 02/27/2025 | 08/27/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 03/04/2025 |

**FROM** 0.40000ml of V13706 + 24.60000ml of V14613 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 249 | 8260 Surrogate, 100PPM | VP133175 | 02/27/2025 | 08/27/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 03/04/2025 |

**FROM** 0.10000ml of V13706 + 24.90000ml of V14613 = Final Quantity: 25.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 51 | 8260 Working STD (Acrolein) -first source, 800PPM | VP133758 | 04/24/2025 | 05/23/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 05/07/2025 |

**FROM** 1.00000ml of V14915 + 1.00000ml of V14916 + 1.00000ml of V14917 + 1.00000ml of V14918 + 21.00000ml of V14615 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 56 | 8260 Working STD (Acrolein) -first source, 500PPM | VP133759 | 04/24/2025 | 05/23/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 05/07/2025 |

**FROM** 5.62500ml of V14615 + 9.37500ml of VP133758 = Final Quantity: 15.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 257 | 8260 Calibration Working STD Mix-First source, 160PPM | VP133887 | 05/12/2025 | 06/23/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 05/14/2025 |

**FROM** 0.40000ml of V14843 + 1.00000ml of V14432 + 1.00000ml of V14435 + 1.00000ml of V14503 + 1.00000ml of V14504 + 1.00000ml of V14525 + 1.00000ml of V14526 + 1.00000ml of V14711 + 1.00000ml of V14717 + 1.00000ml of V14718 + 1.00000ml of V14721 + 1.00000ml of V14749 + 1.00000ml of V14750 + 1.00000ml of V14811 + 1.00000ml of V14812 + 10.60000ml of V14921 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 244 | 8260 Calibration Working STD Mix-First source, 100PPM | VP133888 | 05/12/2025 | 06/23/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 05/14/2025 |

**FROM** 5.62500ml of V14921 + 9.37500ml of VP133887 = Final Quantity: 15.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1917 | 8260 Internal standard 50 ppm | VP133934 | 05/16/2025 | 11/12/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 05/21/2025 |

**FROM** 0.10000ml of V14290 + 49.90000ml of V14921 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 247 | 8260 Internal Standard, 250PPM | VP133935 | 05/16/2025 | 11/12/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 05/21/2025 |

**FROM** 0.25000ml of V14290 + 24.75000ml of V14921 = Final Quantity: 25.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 218 | BFB, 25PPM | VP133953 | 05/19/2025 | 11/09/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 05/21/2025 |

**FROM** 0.25000ml of V13391 + 24.75000ml of V14626 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 732 | BFB TUNE CHECK - SOIL | VP133969 | 05/20/2025 | 05/21/2025 | Amit Patel | None | None | Mahesh Dadoda 05/21/2025 |

**FROM** 4.99800ml of W3112 + 0.00200ml of VP133953 = Final Quantity: 5.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP133970 | 05/20/2025 | 05/21/2025 | Amit Patel | None | None | Mahesh Dadoda 05/21/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP133175 + 0.00250ml of VP133759 + 0.00250ml of VP133888 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP133971 | 05/20/2025 | 05/21/2025 | Amit Patel | None | None | Mahesh Dadoda 05/21/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP133175 + 0.00250ml of VP133759 + 0.00250ml of VP133888 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 589 | BFB TUNE CHECK | VP133985 | 05/21/2025 | 05/22/2025 | John Carlone | None | None | Mahesh Dadoda 05/23/2025 |

**FROM** 39.98400ml of W3112 + 0.01600ml of VP133953 = 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 | VP133986 | 05/21/2025 | 05/22/2025 | John Carlone | None | None | Mahesh Dadoda 05/23/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP133935 + 0.01250ml of VP132035 + 0.01250ml of VP133758 + 0.01250ml of VP133887 = Final Quantity: 40.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 620 | 50 PPB CCC, 8260-Water | VP133987 | 05/21/2025 | 05/22/2025 | John Carlone | None | None | Mahesh Dadoda 05/23/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP133935 + 0.01250ml of VP132035 + 0.01250ml of VP133758 + 0.01250ml of VP133887 = Final Quantity: 40.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 51 | 8260 Working STD (Acrolein) -first source, 800PPM | VP133991 | 05/22/2025 | 06/19/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 05/24/2025 |

**FROM** 1.00000ml of V14944 + 1.00000ml of V14945 + 1.00000ml of V14946 + 1.00000ml of V14947 + 21.00000ml of V14620 = 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 |
|---|---|---|---|---|---|---|---|---|
| 56 | 8260 Working STD (Acrolein) -first source, 500PPM | VP133995 | 05/22/2025 | 06/19/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 05/24/2025 |

**FROM** 5.62500ml of V14620 + 9.37500ml of VP133991 = Final Quantity: 15.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 732 | BFB TUNE CHECK - SOIL | VP134001 | 05/22/2025 | 05/23/2025 | Amit Patel | None | None | Mahesh Dadoda 05/24/2025 |

**FROM** 4.99800ml of W3112 + 0.00200ml of VP133953 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP134002 | 05/22/2025 | 05/23/2025 | Amit Patel | None | None | Mahesh Dadoda 05/24/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP133175 + 0.00250ml of VP133759 + 0.00250ml of VP133888 + 0.00250ml of VP133995 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP134003 | 05/22/2025 | 05/23/2025 | Amit Patel | None | None | Mahesh Dadoda 05/24/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP133175 + 0.00250ml of VP133759 + 0.00250ml of VP133888 + 0.00250ml of VP133995 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 589 | BFB TUNE CHECK | VP134008 | 05/23/2025 | 05/24/2025 | John Carlone | None | None | Mahesh Dadoda 05/24/2025 |

**FROM** 39.98400ml of W3112 + 0.01600ml of VP133953 = 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 | VP134009 | 05/23/2025 | 05/24/2025 | John Carlone | None | None | Mahesh Dadoda 05/24/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP133935 + 0.01250ml of VP132035 + 0.01250ml of VP133887 + 0.01250ml of VP133991 = Final Quantity: 40.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 620 | 50 PPB CCC, 8260-Water | VP134010 | 05/23/2025 | 05/24/2025 | John Carlone | None | None | Mahesh Dadoda 05/24/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP133935 + 0.01250ml of VP132035 + 0.01250ml of VP133887 + 0.01250ml of VP133991 = Final Quantity: 40.000 ml

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Fax : 908 789 8922

# 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 | 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 |

| 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 | 02/27/2026 | 02/27/2025 / SAM | 04/12/2023 / SAM | V13706 |

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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 | 555581 / Custom Standard, 8260 Internal Std [CS 5179-1] | A0210184 | 12/12/2025 | 12/12/2024 / SAM | 04/15/2024 / SAM | V14290 |

| 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 | 09/30/2025 | 05/12/2025 / SAM | 08/15/2024 / SAM | V14432 |

| 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 | 09/20/2025 | 03/20/2025 / SAM | 08/15/2024 / SAM | V14435 |

| 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 | 11/12/2025 | 05/12/2025 / SAM | 09/17/2024 / SAM | V14503 |

| 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 | 11/12/2025 | 05/12/2025 / SAM | 09/17/2024 / SAM | V14504 |

| 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 | 11/12/2025 | 05/12/2025 / SAM | 09/18/2024 / SAM | V14525 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95319 / Revised Additions Mix (Min = 5) | 091724 | 11/12/2025 | 05/12/2025 / SAM | 09/18/2024 / SAM | V14526 |

| 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 | 08/27/2025 | 02/27/2025 / SAM | 11/26/2024 / SAM | V14613 |

| 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) | 22L0562016 | 09/19/2025 | 03/19/2025 / SAM | 11/26/2024 / SAM | V14615 |

| 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 | 10/25/2025 | 05/09/2025 / SAM | 11/26/2024 / SAM | V14620 |

| 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 | 11/09/2025 | 05/09/2025 / SAM | 11/26/2024 / SAM | V14626 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 06/10/2025 | 12/10/2024 / SAM | 12/06/2024 / SAM | 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 | 11/12/2025 | 05/12/2025 / SAM | 12/17/2024 / SAM | V14711 |

| 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 | 11/12/2025 | 05/12/2025 / SAM | 12/17/2024 / SAM | V14717 |

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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 | 11/12/2025 | 05/12/2025 / SAM | 12/17/2024 / SAM | V14718 |

| 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 | 11/12/2025 | 05/12/2025 / SAM | 12/17/2024 / SAM | V14721 |

| 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 | 11/13/2025 | 05/12/2025 / SAM | 12/17/2024 / SAM | V14749 |

| 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 | 11/12/2025 | 05/12/2025 / SAM | 12/17/2024 / SAM | V14750 |

| 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 | 11/12/2025 | 05/12/2025 / SAM | 01/08/2025 / SAM | V14811 |

| 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 | 06/30/2026 | 05/12/2025 / SAM | 01/08/2025 / SAM | V14812 |

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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 | 30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM | A0217535 | 11/12/2025 | 05/12/2025 / SAM | 01/21/2025 / SAM | V14843 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 042325 | 05/23/2025 | 04/24/2025 / SAM | 04/24/2025 / SAM | V14915 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 042325 | 05/23/2025 | 04/24/2025 / SAM | 04/24/2025 / SAM | V14916 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 042325 | 05/23/2025 | 04/24/2025 / SAM | 04/24/2025 / SAM | V14917 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 042325 | 05/23/2025 | 04/24/2025 / SAM | 04/24/2025 / SAM | V14918 |

| 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) | 24G0262002 | 11/12/2025 | 05/12/2025 / SAM | 05/09/2025 / SAM | V14921 |

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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) | 051925 | 06/19/2025 | 05/22/2025 / SAM | 05/21/2025 / SAM | V14944 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 051925 | 06/19/2025 | 05/22/2025 / SAM | 05/21/2025 / SAM | V14945 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 051925 | 06/19/2025 | 05/22/2025 / SAM | 05/21/2025 / SAM | V14946 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 051925 | 06/19/2025 | 05/22/2025 / SAM | 05/21/2025 / SAM | V14947 |

| 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

12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.2 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.2 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.2 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.2 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
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500 Series for Drinking Water
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Country of Origin: USA
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James Ethier
Jamie Ethier
Vice President Global Quality

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

## Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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 | 5E-05 Balance Uncertainty | 0.021 Flask Uncertainty

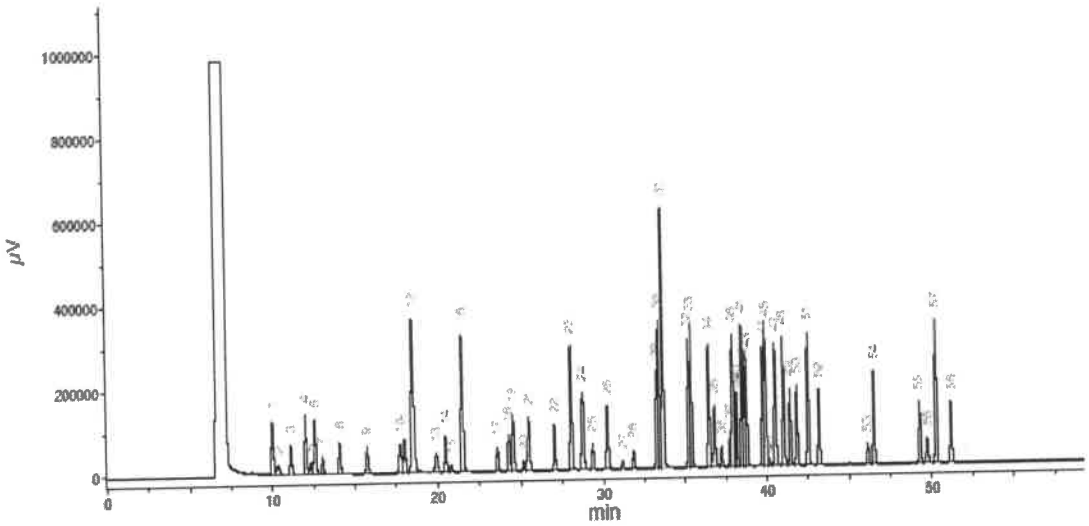
| | Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(ug/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (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 | (0466) | MKBP6041V | NA | NA | NA | 2000 | 96.5 | 0.2 | NA | 0.20731 | 0.20748 | 2001.7 | 8.4 | 110-57-6 | N/A | N/A |
| 6. | Diethyl ether | (0153) | IK18CAS0000 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 60-29-7 | N/A | N/A |
| 7. | Ethyl methacrylate | (0381) | 06128PX | 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 | 20.8 | 127-18-4 | 25 ppm (170mg/m3/8H)(final) | orl-rat 2629mg/kg |
| 30. | 1,1,1-Trichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 71-55-6 | 350 ppm (1900mg/m3/8H) | orl-rat 10300mg/kg |
| 31. | 1,2-Dibromo-3-chloropropane | 35161 | 112322 | 0.05 | 5.00 | 40016.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.3 | 22.9 | 96-12-8 | 0.001 ppm | orl-rat 170mg/kg |
| 32. | 1,2-Dibromoethane | 35161 | 112322 | 0.05 | 5.00 | 40024.8 | 2000 | NA | NA | 0.017 | NA | NA | 2000.7 | 22.9 | 106-93-4 | 20 ppm (8H) | orl-rat 108mg/kg |
| 33. | 1,2-Dichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40018.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 22.9 | 107-06-2 | 50 ppm (8H) | orl-rat 670mg/kg |
| 34. | 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40051.0 | 2000 | NA | NA | 0.017 | NA | NA | 2002.0 | 22.9 | 78-87-5 | 75 ppm (350mg/m3/8H) | orl-rat 1947mg/kg |
| 35. | 1,3-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40005.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 142-28-9 | N/A | unr-mus 3600mg/kg |
| 36. | 1,1-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40012.1 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 29.7 | 563-58-6 | N/A | N/A |
| 37. | cis-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40010.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.0 | 23.0 | 10061-01-5 | N/A | N/A |
| 38. | trans-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40017.6 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 23.0 | 10061-02-6 | N/A | N/A |
| 39. | Hexachloro-1,3-butadiene | 35161 | 112322 | 0.05 | 5.00 | 40021.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.6 | 29.7 | 87-68-3 | 0.02 ppm (0.24mg/m3/8H) | orl-rat 82mg/kg |
| 40. | 1,1,1,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40011.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 22.9 | 630-20-6 | N/A | orl-rat 670mg/kg |
| 41. | 1,1,2,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 79-34-5 | 5 ppm (35mg/m3/8H)(skin) | orl-rat 800mg/kg |
| 42. | 1,1,2-Trichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40006.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 23.0 | 79-00-5 | 10 ppm (45mg/m3/8H)(skin) | orl-rat 836mg/kg |
| 43. | Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 79-01-6 | 50 ppm (270mg/m3/8H) | orl-mus 2402mg/kg |
| 44. | 1,2,3-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 96-18-4 | 10 ppm (60mg/m3/8H) | orl-rat 149.6mg/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 | 1999.8 | 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 | 1999.8 | 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 8040mg/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 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 106-42-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty 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).

## 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 | 6.97 |
| 2 | 1,1,2-Trichloro-1,2,3-trifluoroethane | 10.33 |
| 3 | 1,1-Dichloroethene | 11.10 |
| 4 | Acetonitrile | 12.00 |
| 5 | Iodomethane | 12.31 |
| 6 | Allyl chloride | 12.56 |
| 7 | Carbon disulfide/Methylene chloride | 13.04 |
| 8 | trans-1,2-Dichloroethene | 14.07 |
| 9 | 1,1-Dichloroethane | 15.74 |
| 10 | 2,2-Dichloropropane | 17.74 |
| 11 | cis-1,2-Dichloroethene | 18.00 |
| 12 | Methacrylonitrile/Methyl acrylate/Chloroform | 18.49 |
| 13 | Isobutanol/1,1,1-Trichloroethane | 18.91 |
| 14 | 1,1-Dichloropropene | 19.46 |
| 15 | Carbon tetrachloride | 20.79 |
| 16 | Benzene/1,2-Dichloroethane | 21.48 |
| 17 | Trichloroethene | 23.86 |
| 18 | 1,2-Dichloropropane | 24.26 |
| 19 | Methyl methacrylate | 24.62 |
| 20 | Bromodichloromethane | 25.13 |
| 21 | Dibromomethane/2-Nitropropane | 25.46 |
| 22 | cis-1,3-Dichloropropene | 27.02 |
| 23 | Toluene | 28.09 |
| 24 | Ethyl methacrylate/trans-1,3-Dichloropropene | 28.73 |
| 25 | 1,1,2-Trichloroethane | 29.34 |
| 26 | Tetrachloroethene/1,3-Dichloropropane | 30.34 |
| 27 | Dibromochloromethane | 31.16 |
| 28 | 1,2-Dibromoethane | 31.84 |
| 29 | Chlorobenzene | 33.26 |
| 30 | Ethylbenzene/1,1,1,2-Tetrachloroethane | 33.40 |
| 31 | m-Xylene/p-Xylene | 33.85 |
| 32 | o-Xylene | 35.23 |
| 33 | Styrene | 35.30 |
| 34 | Isopropylbenzene/Bromoform | 35.48 |
| 35 | cis-1,4-Dichloro-2-butene | 36.80 |
| 36 | 1,1,2,2-Tetrachloroethane | 37.23 |
| 37 | 1,2,3-Trichloropropane | 37.77 |
| 38 | n-Propylbenzene | 37.92 |
| 39 | trans-1,4-Dichloro-2-butene | 38.05 |
| 40 | Bromobenzene | 38.14 |
| 41 | 1,3,5-Trimethylbenzene | 38.50 |
| 42 | 2-Chlorotoluene | 38.62 |
| 43 | 4-Chlorotoluene | 38.77 |
| 44 | tert-Butylbenzene | 39.76 |
| 45 | 1,2,4-Trimethylbenzene | 39.91 |
| 46 | Pentachloroethane | 40.17 |
| 47 | sec-Butylbenzene | 40.52 |
| 48 | p-Isopropyltoluene | 41.02 |
| 49 | 1,3-Dichlorobenzene | 41.42 |
| 50 | 1,4-Dichlorobenzene | 41.63 |
| 51 | n-Butylbenzene | 42.02 |
| 52 | 1,2-Dichlorobenzene | 42.18 |
| 53 | 1,2-Dibromo-3-chloropropane | 46.12 |
| 54 | Nitrobenzene | 46.58 |
| 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, 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)) | | | |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | % (optional) > 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. |
| Storage Conditions | Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. 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 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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 | 5E-05 Balance Uncertainty | 0.021 Flask Uncertainty

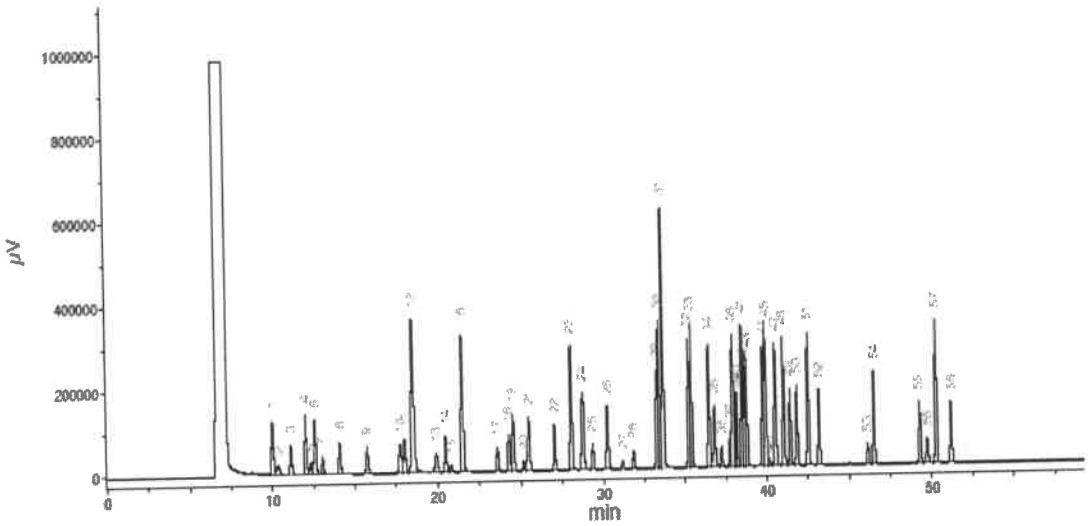
| | Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(ug/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (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) | MKCR6561 | 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 | (0466) | MKBP6041V | NA | NA | NA | 2000 | 96.5 | 0.2 | NA | 0.20731 | 0.20748 | 2001.7 | 8.4 | 110-57-6 | N/A | N/A |
| 6. | Diethyl ether | (0153) | IK18CAS0000 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 60-29-7 | N/A | N/A |
| 7. | Ethyl methacrylate | (0381) | 06128PX | 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) | MKBW6137V | 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 | 20.8 | 127-18-4 | 25 ppm (170mg/m3/8H)(final) | orl-rat 2629mg/kg |
| 30. | 1,1,1-Trichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 71-55-6 | 350 ppm (1900mg/m3/8H) | orl-rat 10300mg/kg |
| 31. | 1,2-Dibromo-3-chloropropane | 35161 | 112322 | 0.05 | 5.00 | 40016.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.3 | 22.9 | 96-12-8 | 0.001 ppm | orl-rat 170mg/kg |
| 32. | 1,2-Dibromoethane | 35161 | 112322 | 0.05 | 5.00 | 40024.8 | 2000 | NA | NA | 0.017 | NA | NA | 2000.7 | 22.9 | 106-93-4 | 20 ppm (8H) | orl-rat 108mg/kg |
| 33. | 1,2-Dichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40018.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 22.9 | 107-06-2 | 50 ppm (8H) | orl-rat 670mg/kg |
| 34. | 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40051.0 | 2000 | NA | NA | 0.017 | NA | NA | 2002.0 | 22.9 | 78-87-5 | 75 ppm (350mg/m3/8H) | orl-rat 1947mg/kg |
| 35. | 1,3-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40005.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 142-28-9 | N/A | unr-mus 3600mg/kg |
| 36. | 1,1-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40012.1 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 29.7 | 563-58-6 | N/A | N/A |
| 37. | cis-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40010.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.0 | 23.0 | 10061-01-5 | N/A | N/A |
| 38. | trans-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40017.6 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 23.0 | 10061-02-6 | N/A | N/A |
| 39. | Hexachloro-1,3-butadiene | 35161 | 112322 | 0.05 | 5.00 | 40021.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.6 | 29.7 | 87-68-3 | 0.02 ppm (0.24mg/m3/8H) | orl-rat 82mg/kg |
| 40. | 1,1,1,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40011.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 22.9 | 630-20-6 | N/A | orl-rat 670mg/kg |
| 41. | 1,1,2,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 79-34-5 | 5 ppm (35mg/m3/8H)(skin) | orl-rat 800mg/kg |
| 42. | 1,1,2-Trichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40006.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 23.0 | 79-00-5 | 10 ppm (45mg/m3/8H)(skin) | orl-rat 836mg/kg |
| 43. | Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 79-01-6 | 50 ppm (270mg/m3/8H) | orl-mus 2402mg/kg |
| 44. | 1,2,3-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 96-18-4 | 10 ppm (60mg/m3/8H) | orl-rat 149.6mg/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 | 1999.8 | 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 | 1999.8 | 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 8040mg/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 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 106-42-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty 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).

## 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-1,2,3-trifluoroethane | 10.33 |
| 3 | 1,1-Dichloroethene | 11.10 |
| 4 | Acetonitrile | 12.00 |
| 5 | Iodomethane | 12.31 |
| 6 | Allyl chloride | 12.56 |
| 7 | Carbon disulfide/Methylene chloride | 13.04 |
| 8 | trans-1,2-Dichloroethene | 14.07 |
| 9 | 1,1-Dichloroethane | 15.74 |
| 10 | 2,2-Dichloropropane | 17.74 |
| 11 | cis-1,2-Dichloroethene | 18.00 |
| 12 | Methacrylonitrile/Methyl acrylate/Chloroform | 18.49 |
| 13 | Isobutanol/1,1,1-Trichloroethane | 18.91 |
| 14 | 1,1-Dichloropropene | 19.46 |
| 15 | Carbon tetrachloride | 20.79 |
| 16 | Benzene/1,2-Dichloroethane | 21.48 |
| 17 | Trichloroethene | 23.86 |
| 18 | 1,2-Dichloropropane | 24.26 |
| 19 | Methyl methacrylate | 24.62 |
| 20 | Bromodichloromethane | 25.13 |
| 21 | Dibromomethane/2-Nitropropane | 25.46 |
| 22 | cis-1,3-Dichloropropene | 27.07 |
| 23 | Toluene | 28.09 |
| 24 | Ethyl methacrylate/trans-1,3-Dichloropropene | 28.73 |
| 25 | 1,1,2-Trichloroethane | 29.34 |
| 26 | Tetrachloroethene/1,3-Dichloropropane | 30.34 |
| 27 | Dibromochloromethane | 31.16 |
| 28 | 1,2-Dibromoethane | 31.84 |
| 29 | Chlorobenzene | 33.26 |
| 30 | Ethylbenzene/1,1,1,2-Tetrachloroethane | 33.40 |
| 31 | m-Xylene/p-Xylene | 33.85 |
| 32 | o-Xylene | 35.33 |
| 33 | Styrene | 35.50 |
| 34 | Isopropylbenzene/Bromoform | 35.48 |
| 35 | cis-1,4-Dichloro-2-butene | 36.80 |
| 36 | 1,1,2,2-Tetrachloroethane | 37.23 |
| 37 | 1,2,3-Trichloropropane | 37.77 |
| 38 | n-Propylbenzene | 37.92 |
| 39 | trans-1,4-Dichloro-2-butene | 38.05 |
| 40 | Bromobenzene | 38.14 |
| 41 | 1,3,5-Trimethylbenzene | 38.50 |
| 42 | 2-Chlorotoluene | 38.62 |
| 43 | 4-Chlorotoluene | 38.77 |
| 44 | tert-Butylbenzene | 39.76 |
| 45 | 1,2,4-Trimethylbenzene | 39.91 |
| 46 | Pentachloroethane | 40.17 |
| 47 | sec-Butylbenzene | 40.52 |
| 48 | p-Isopropyltoluene | 41.02 |
| 49 | 1,3-Dichlorobenzene | 41.42 |
| 50 | 1,4-Dichlorobenzene | 41.63 |
| 51 | n-Butylbenzene | 42.82 |
| 52 | 1,2-Dichlorobenzene | 43.18 |
| 53 | 1,2-Dibromo-3-chloropropane | 46.12 |
| 54 | Nitrobenzene | 46.58 |
| 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, 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)) | | | |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | % (optional) > 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. |
| Storage Conditions | Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. 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 04/24/25 5 N 104

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https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
**Lot Number:** 042325
**Description:** Acrolein

**Expiration Date:** 052325
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 5000
**NIST Test ID#:** 6UTB

**Solvent(s):** Water **Lot#** 072324Q

V14914 10
V14918

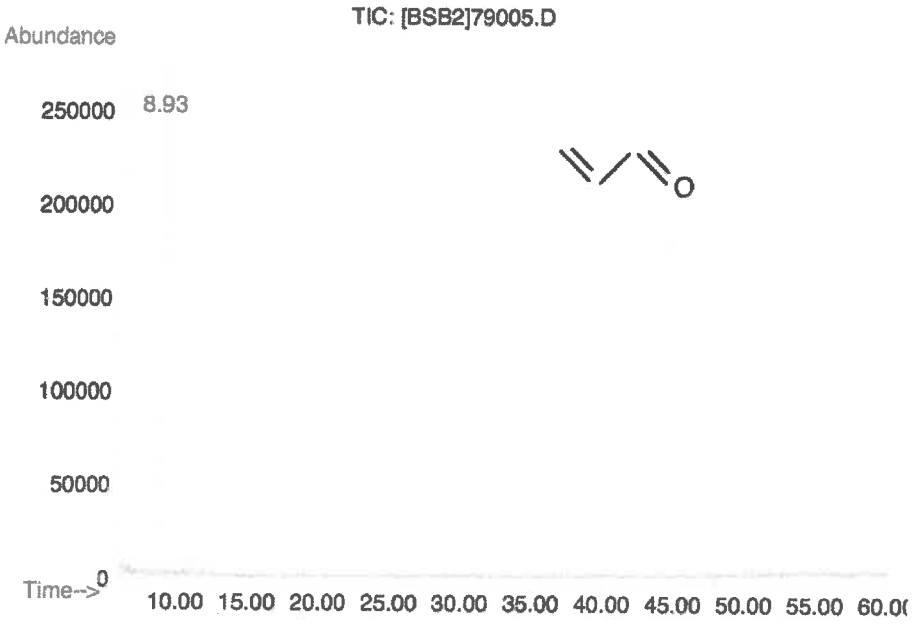
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

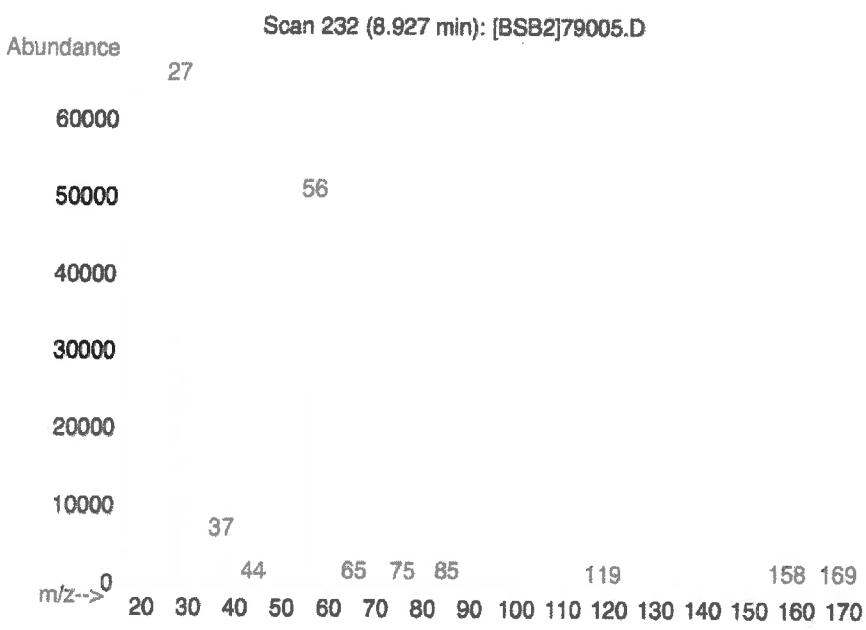
Eli Aliaga 042325
Formulated By: Eli Aliaga DATE

Pedro Rentas 042325
Reviewed By: Pedro L. Rentas DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 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 by an ISO 17025 certified organization wtih weights traceable through NIST to the SI kilogram (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).

Rev 1.0, 2/25/2025

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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, 2025 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **P271** | **Use in ventilated area** | **H315** | **Causes skin and eye irritation.** |
| **P302,332** | **If on skin, wash with soap and water** | **P280** | **Use gloves, eye protection/face sheild** |
| | | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | % (optional) |
|---|---|---|
| Water | CAS#: 7732-18-5 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |
| **Hazardous Decomposition products** | Carbon oxides |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|---|---|---|---|
| Boiling Point | 100°C | Specific Gravity (H2O = 1) | 1 |
| Vapor Pressure (mm Hg) | | Melting Point | |

| | | | |
|---|---|---|---|
| | NA | | 0°C |
| Vapor Density (AIR = 1) | NA | Evaporation rate (Butyl Acetate = 1) | NA |

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — NA
Conditions to avoid — NA
Materials to avoid — NA
Hazardous decomposition products - No data available

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat — NA
LC50 Inhalation - Rat — NA
LD50 Dermal - Guinea pig — NA
Causes skin irritation.
Eye irritation

## Section XII. ECOLOGICAL INFORMATION

LC50 — NA
EC50 — NA

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

## Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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***Certified Reference Material CRM***

Rec 04/24/25 5 N10

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https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

| | |
|---|---|
| **Part Number:** | 91980 |
| Lot Number: | 042325 |
| Description: | Acrolein |
| Expiration Date: | 052325 |
| Recommended Storage: | Refrigerate (4 °C) |
| Nominal Concentration (µg/mL): | 5000 |
| NIST Test ID#: | 6UTB |

**Solvent(s):** Lot#
Water 072324Q

V14914 10
V14918

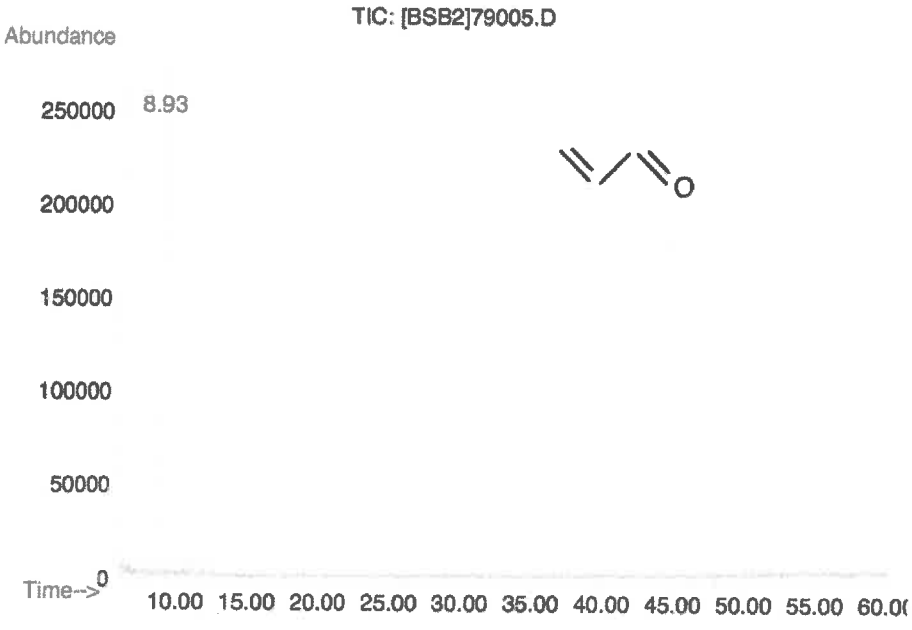
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

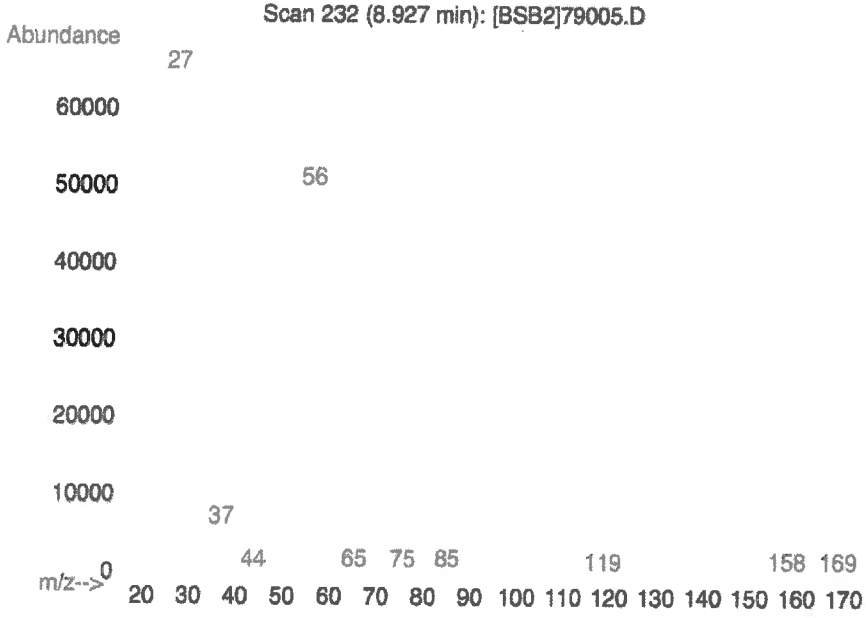
Eli Aliaga 042325
Formulated By: Eli Aliaga DATE

Pedro Rentas 042325
Reviewed By: Pedro L. Rentas DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 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 by an ISO 17025 certified organization wtih weights traceable through NIST to the SI kilogram (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).

Rev 1.0, 2/25/2025

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| | | | |
|---|---|---|---|
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| Address | 44 Rossotto Dr. | Emergency Telephone International | **1-352-323-3500** |
| | Hamden CT, 06514 | Date Prepared/Revised | January 1, 2025 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **P271** | **Use in ventilated area** | **H315** | **Causes skin and eye irritation.** |
| **P302,332** | **If on skin, wash with soap and water** | **P280** | **Use gloves, eye protection/face sheild** |
| | | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | % (optional) |
|---|---|---|
| Water | CAS#: 7732-18-5 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |
| **Hazardous Decomposition products** | Carbon oxides |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|---|---|---|---|
| Boiling Point | 100°C | Specific Gravity (H2O = 1) | 1 |
| Vapor Pressure (mm Hg) | | Melting Point | |

| | | | |
|---|---|---|---|
| | NA | | 0°C |
| Vapor Density (AIR = 1) | NA | Evaporation rate (Butyl Acetate = 1) | NA |

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — NA
Conditions to avoid — NA
Materials to avoid — NA
Hazardous decomposition products - No data available

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat — NA
LC50 Inhalation - Rat — NA
LD50 Dermal - Guinea pig — NA
Causes skin irritation.
Eye irritation

## Section XII. ECOLOGICAL INFORMATION

LC50 — NA
EC50 — NA

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

## Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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***Certified Reference Material CRM***

Rec 04/24/25 5 N 104

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AR-1539 Certificate Numbe
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
**Lot Number:** 042325
**Description:** Acrolein

**Expiration Date:** 052325
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 5000
**NIST Test ID#:** 6UTB

**Solvent(s):** Water **Lot#** 072324Q

V14914 10
V14918

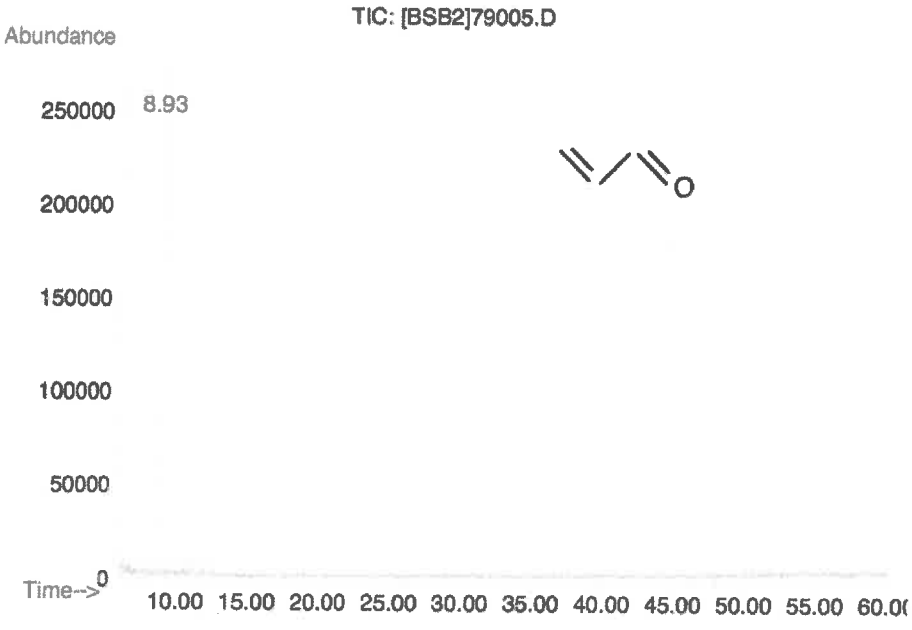
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

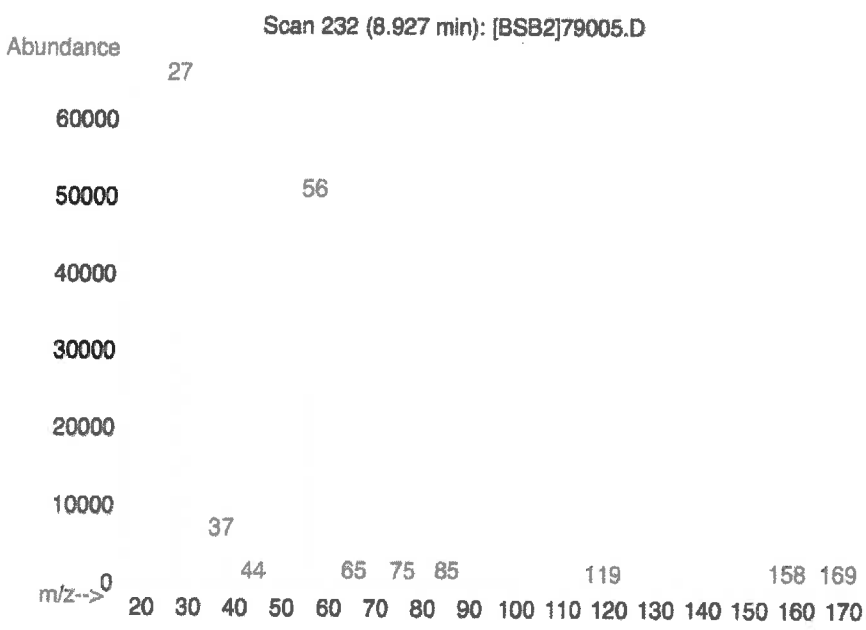
Eli Aliaga 042325
Formulated By: Eli Aliaga DATE

Pedro Rentas 042325
Reviewed By: Pedro L. Rentas DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 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 by an ISO 17025 certified organization wtih weights traceable through NIST to the SI kilogram (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).

Rev 1.0, 2/25/2025

**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, 2025 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **P271** | **Use in ventilated area** | **H315** | **Causes skin and eye irritation.** |
| **P302,332** | **If on skin, wash with soap and water** | **P280** | **Use gloves, eye protection/face sheild** |
| | | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | % (optional) |
|---|---|---|
| Water | CAS#: 7732-18-5 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |
| **Hazardous Decomposition products** | Carbon oxides |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|---|---|---|---|
| Boiling Point | 100°C | Specific Gravity (H2O = 1) | 1 |
| Vapor Pressure (mm Hg) | | Melting Point | |

| | | | |
|---|---|---|---|
| | NA | | 0°C |
| Vapor Density (AIR = 1) | NA | Evaporation rate (Butyl Acetate = 1) | NA |

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — NA
Conditions to avoid — NA
Materials to avoid — NA
Hazardous decomposition products - No data available

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat — NA
LC50 Inhalation - Rat — NA
LD50 Dermal - Guinea pig — NA
Causes skin irritation.
Eye irritation

## Section XII. ECOLOGICAL INFORMATION

LC50 — NA
EC50 — NA

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

## Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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***Certified Reference Material CRM***

Rec 04/24/25 5 N 104

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## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
**Lot Number:** 042325
**Description:** Acrolein

**Expiration Date:** 052325
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 5000
**NIST Test ID#:** 6UTB

**Solvent(s):** Water **Lot#** 072324Q

V14914 10
V14918

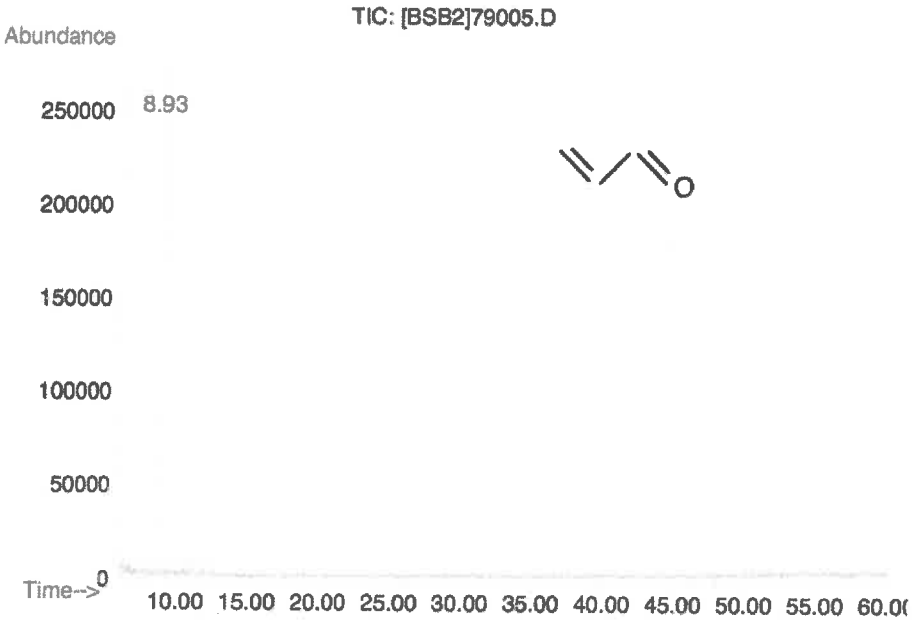
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

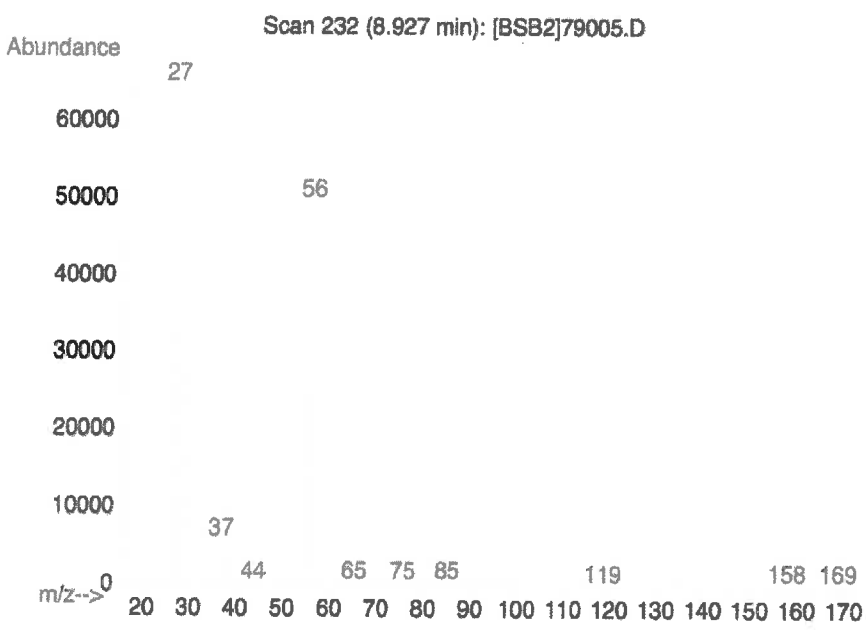
Eli Aliaga 042325
Formulated By: Eli Aliaga DATE

Pedro Rentas 042325
Reviewed By: Pedro L. Rentas DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 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 by an ISO 17025 certified organization wtih weights traceable through NIST to the SI kilogram (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).

Rev 1.0, 2/25/2025

**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, 2025 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **P271** | **Use in ventilated area** | **H315** | **Causes skin and eye irritation.** |
| **P302,332** | **If on skin, wash with soap and water** | **P280** | **Use gloves, eye protection/face sheild** |
| | | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | % (optional) |
|---|---|---|
| Water | CAS#: 7732-18-5 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |
| **Hazardous Decomposition products** | Carbon oxides |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|---|---|---|---|
| Boiling Point | 100°C | Specific Gravity (H2O = 1) | 1 |
| Vapor Pressure (mm Hg) | | Melting Point | |

| | | | |
|---|---|---|---|
| | NA | | 0°C |
| Vapor Density (AIR = 1) | NA | Evaporation rate (Butyl Acetate = 1) | NA |

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — NA
Conditions to avoid — NA
Materials to avoid — NA
Hazardous decomposition products - No data available

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat — NA
LC50 Inhalation - Rat — NA
LD50 Dermal - Guinea pig — NA
Causes skin irritation.
Eye irritation

## Section XII. ECOLOGICAL INFORMATION

LC50 — NA
EC50 — NA

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

## Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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**Certified Reference Material CRM**

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
**Lot Number:** 091424
**Description:** Acrolein

**Solvent(s):** Water **Lot#** 072324Q

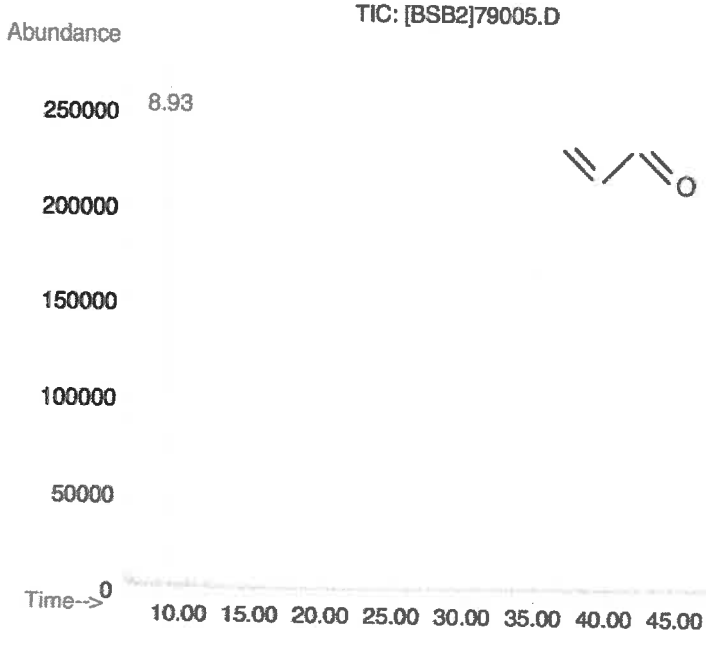
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

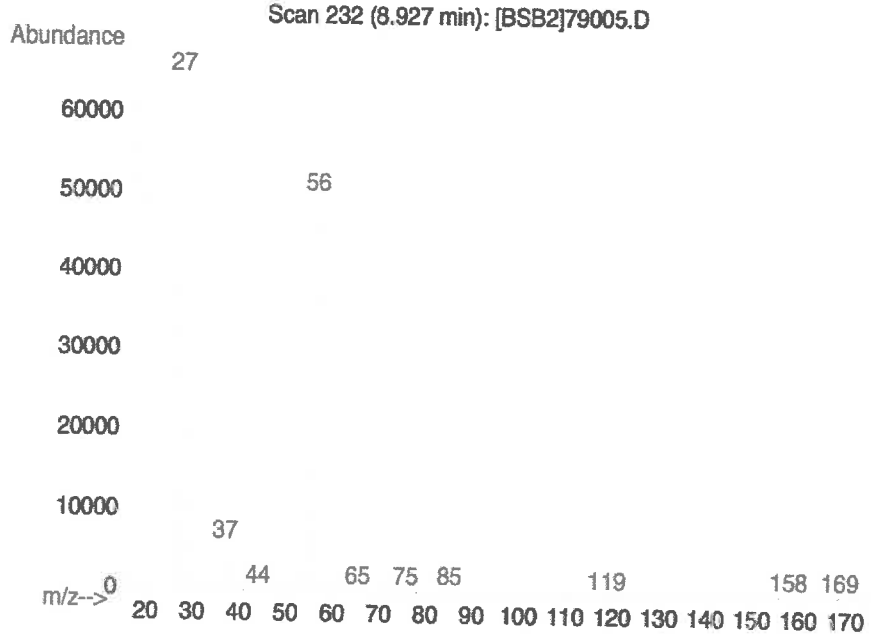
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

| | |
|---|---|
| Justin Dippold | 091424 |
| Formulated By: Justin Dippold | DATE |
| Pedro Rentas | 091424 |
| Reviewed By: Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 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 Numb
https://Absolutestandards.co...

## 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

Weight(s) shown below were combined and diluted to (mL): 10.0

**Solvent(s):** **Lot#**
Water 072324Q

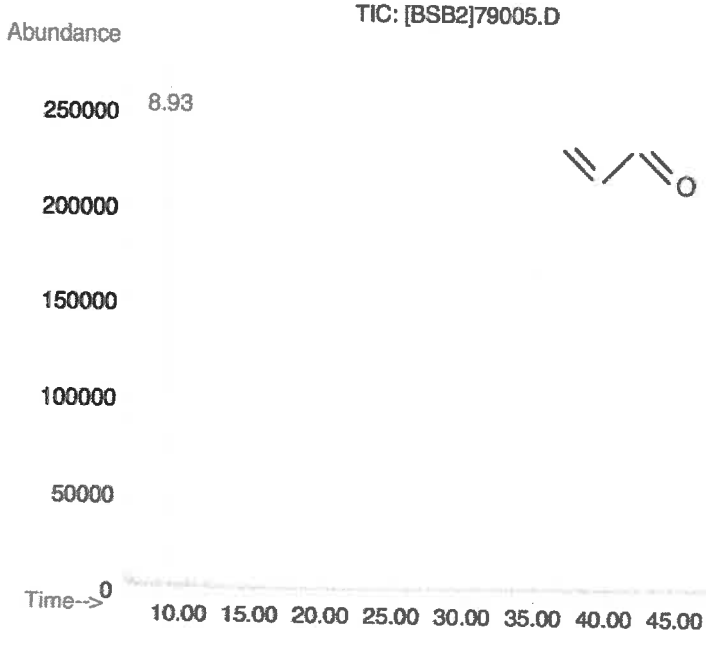
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

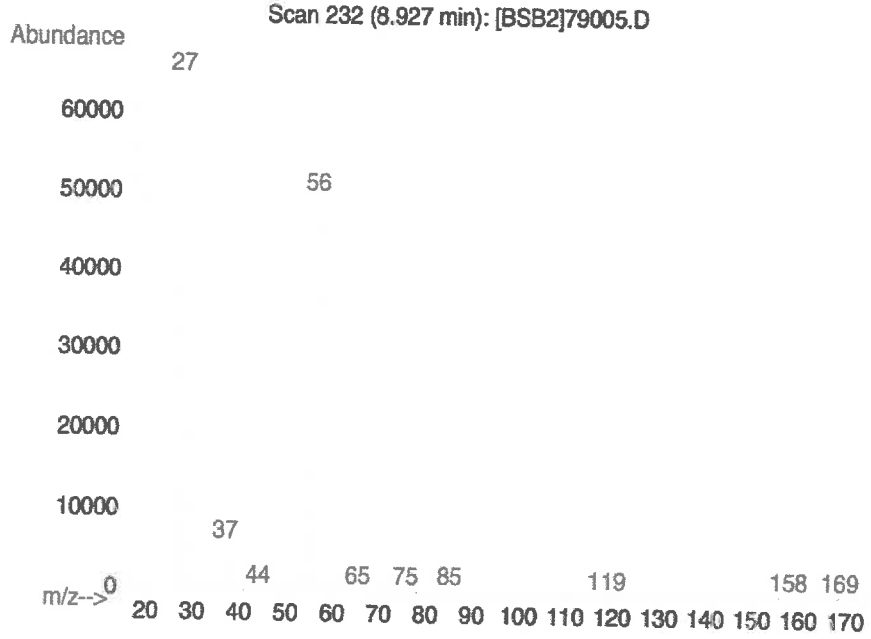
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
Reviewed By: Pedro L. Rentas DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 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).

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## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

**Solvent(s):** Methanol **Lot#** EJ143-US

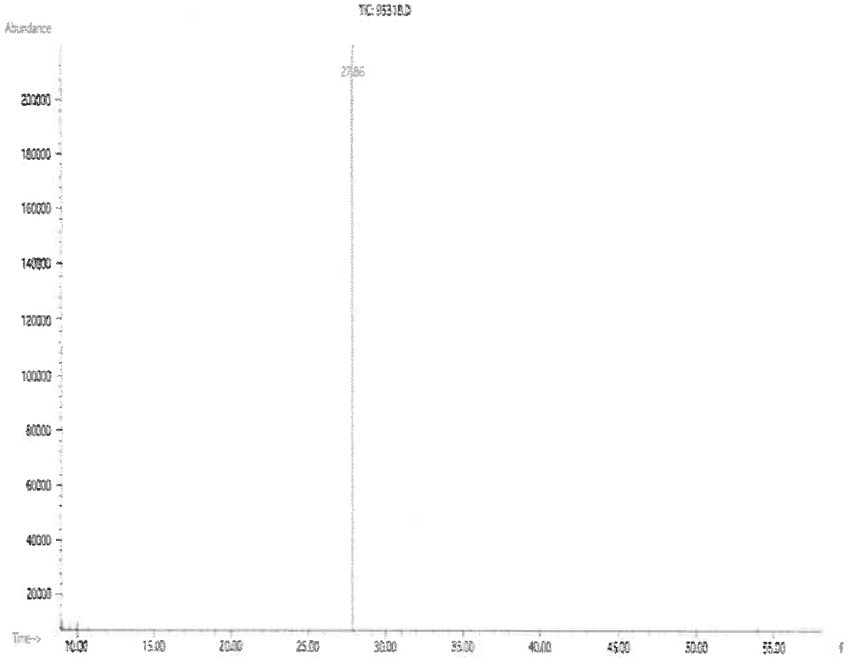
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

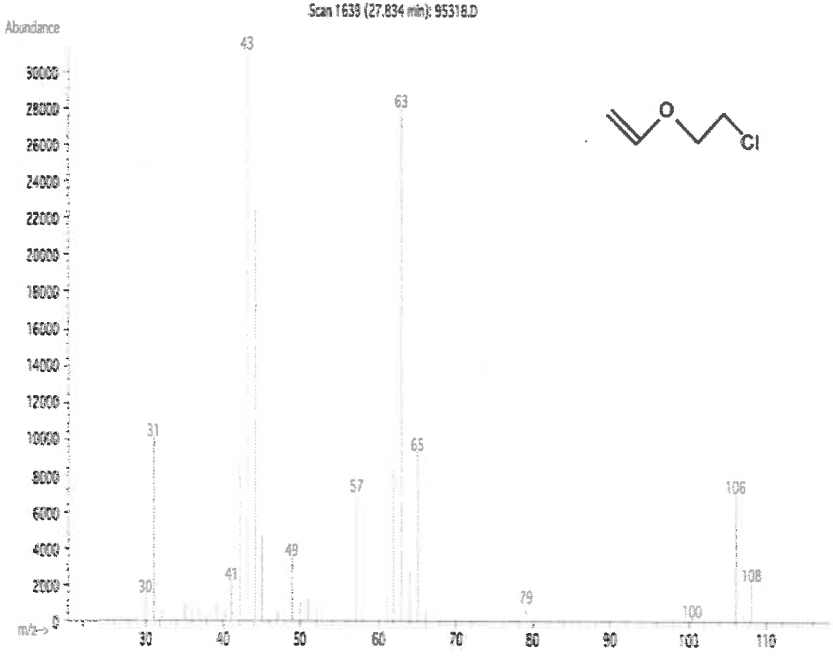
Weight(s) shown below were combined and diluted to (mL): 50.0

| | | |
|---|---|---|
| Prashant Chauhan | 120524 | |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | 120524 | |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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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

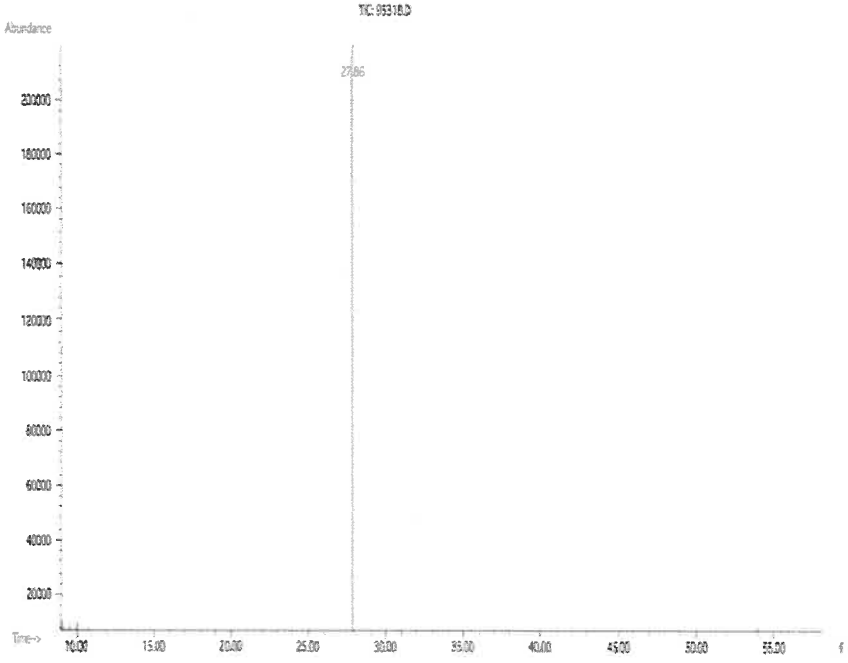
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

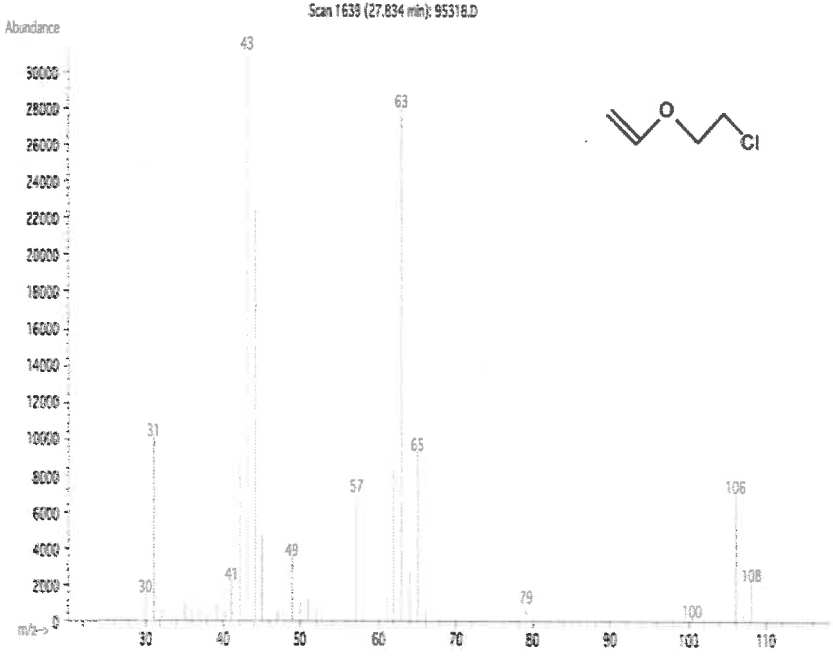
Weight(s) shown below were combined and diluted to (mL): 50.0

| | | |
|---|---|---|
| Prashant Chauhan | 120524 | |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | 120524 | |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







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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.
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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
V14630 to
V14649

ANAB ISO 17034 Accredited
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https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

**Solvent(s):** Methanol **Lot#** EJ143-US

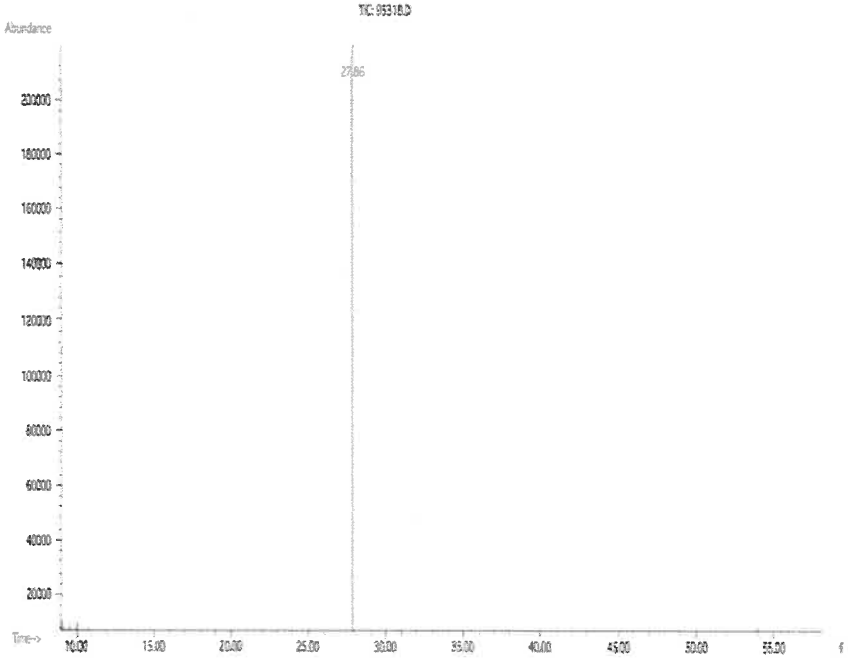
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

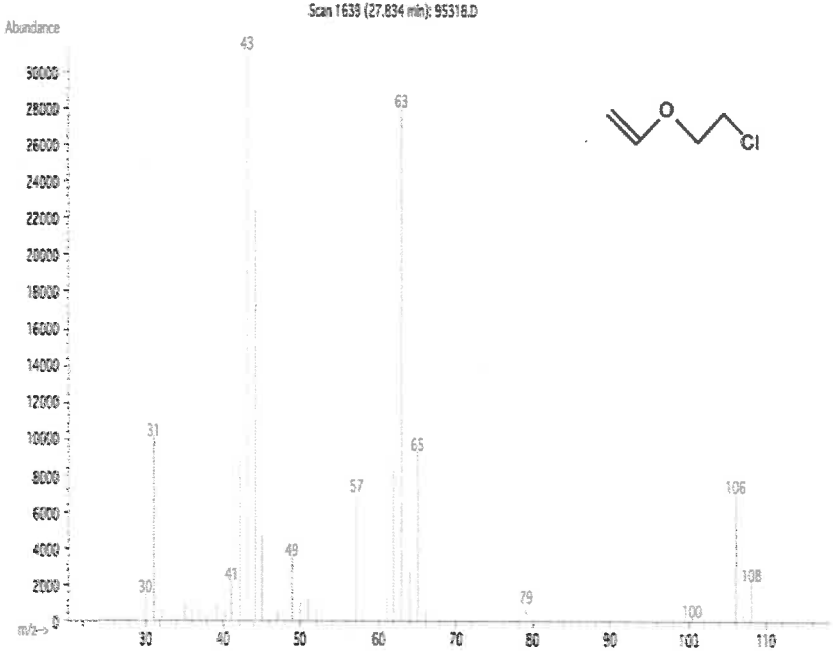
Weight(s) shown below were combined and diluted to (mL): 50.0

| | | |
|---|---|---|
| Prashant Chauhan | 120524 | |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | 120524 | |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







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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.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

Rec 12/6/24
20 vial
V14630 to
V14649

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

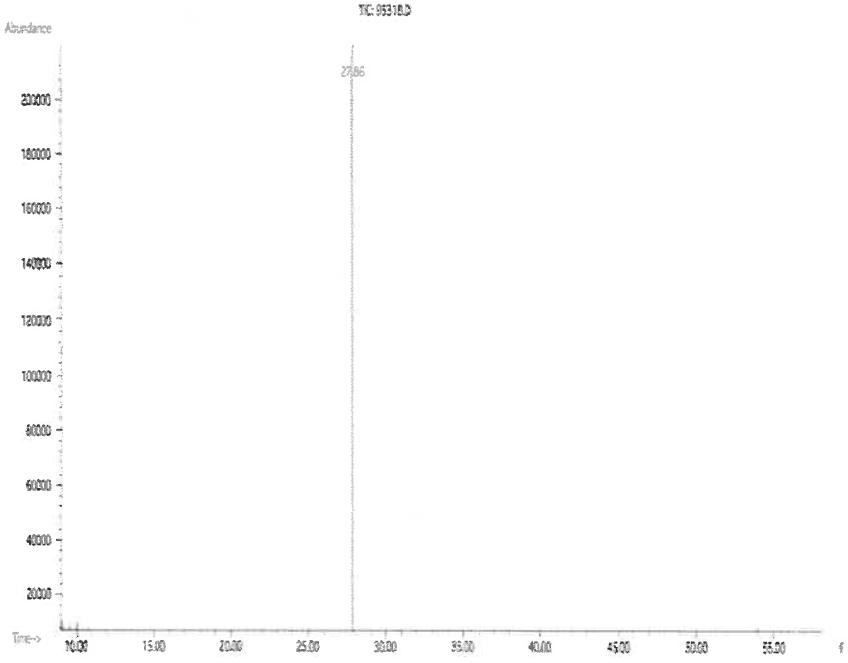
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

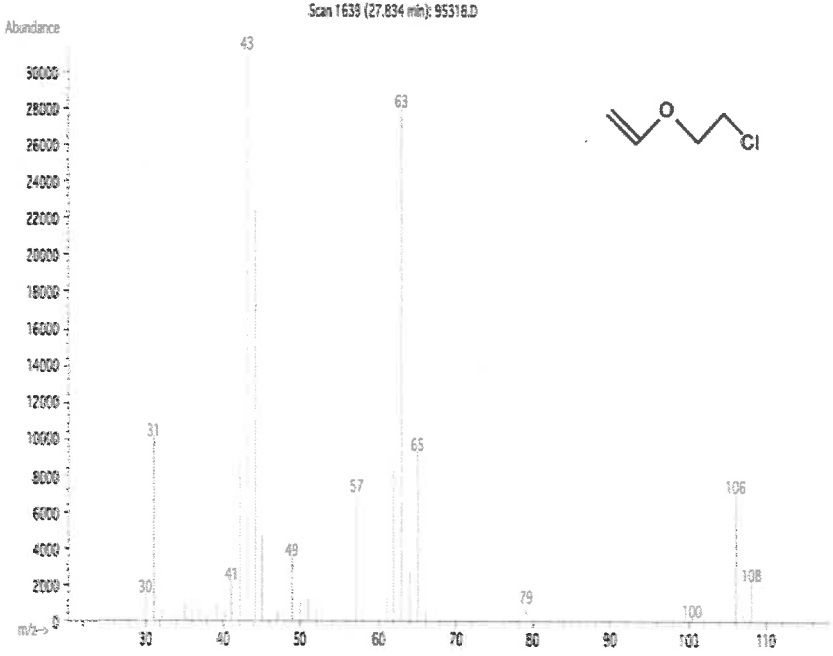
Weight(s) shown below were combined and diluted to (mL): 50.0

| | | |
|---|---|---|
| Prashant Chauhan | 120524 | |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | 120524 | |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
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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 |
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## 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.

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 plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30067 **Lot No.:** A0191805

**Description :** 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4 | 184975 | 99% | 2,483.9 µg/mL | +/- 139.5488 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

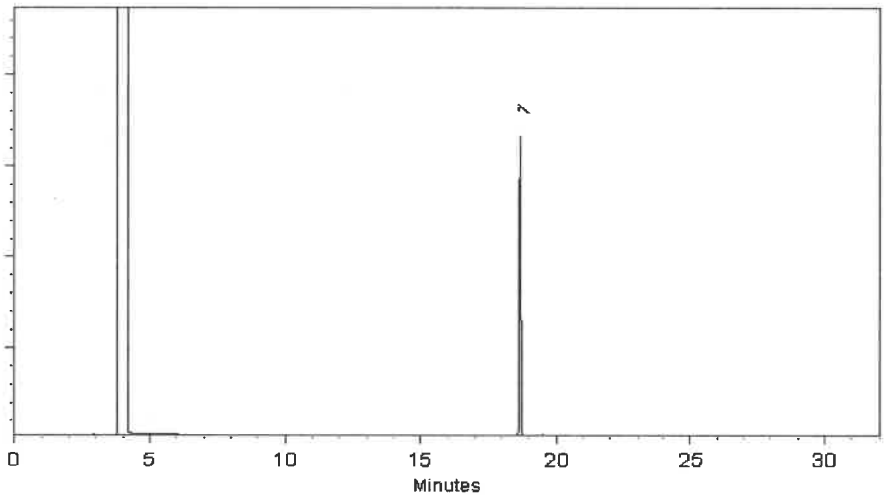
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

**Date Mixed:** 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30225 **Lot No.:** A0193071

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Bromochloromethane | 74-97-5 | 00008541 | 99% | 2,018.0 µg/mL | +/- 113.3890 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

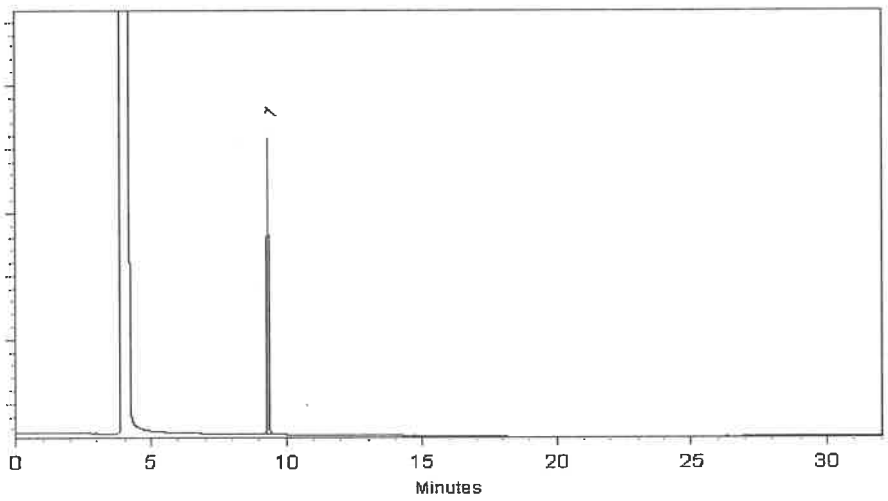
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 03-Jan-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30225 **Lot No.:** A0193071

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Bromochloromethane | 74-97-5 | 00008541 | 99% | 2,018.0 µg/mL | +/- 113.3890 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

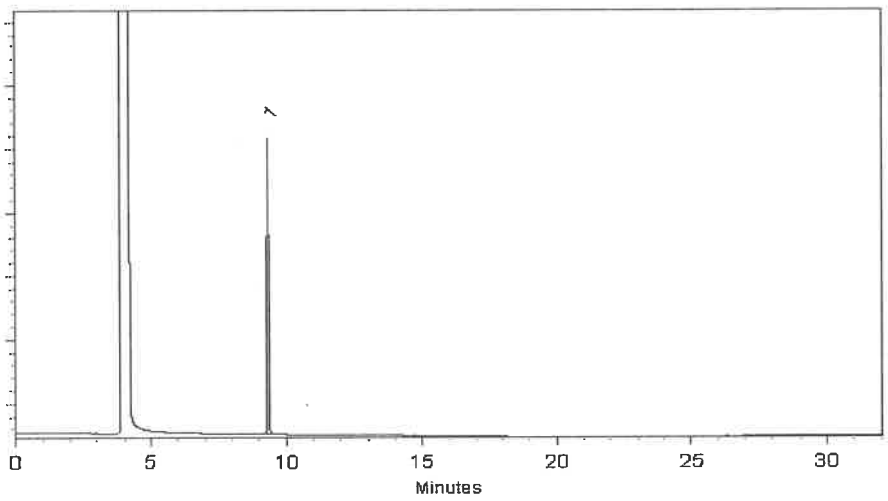
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 03-Jan-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30225 **Lot No.:** A0193071

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Bromochloromethane | 74-97-5 | 00008541 | 99% | 2,018.0 µg/mL | +/- 113.3890 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

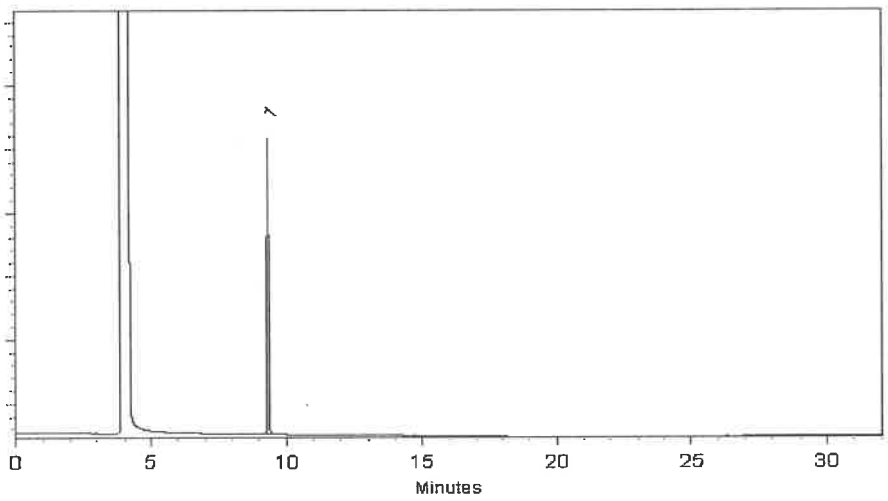
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 03-Jan-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30225 **Lot No.:** A0193071

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Bromochloromethane | 74-97-5 | 00008541 | 99% | 2,018.0 µg/mL | +/- 113.3890 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

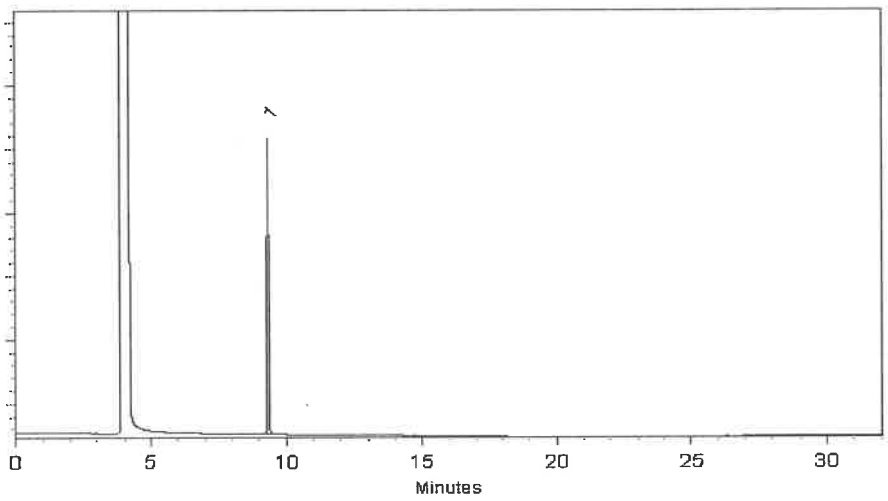
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 03-Jan-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

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. :** 555582 **Lot No.:** A0196865

**Description :** Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2-Dichloroethane-d4 | 17060-07-0 | PR-32845 | 99% | 25,036.0 µg/mL | +/- 1,417.9179 |
| 2 | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4 | 184975 | 99% | 25,132.0 µg/mL | +/- 1,423.3549 |
| 3 | Dibromofluoromethane | 1868-53-7 | 022013 | 99% | 25,040.0 µg/mL | +/- 1,418.1445 |
| 4 | Toluene-d8 | 2037-26-5 | PR-33397 | 99% | 25,028.0 µg/mL | +/- 1,417.4648 |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

Russ Bookhamer - Operations Technician I

**Date Mixed:** 11-Apr-2023 **Balance:** 1127510105

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30489 **Lot No.:** A0209618

**Description :** 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Methyl acetate | 79-20-9 | SHBP3100 | 99% | 2,019.3 µg/mL | +/- 69.7974 |
| 2 | Vinyl acetate | 108-05-4 | RP231030CTH | 98% | 2,016.8 µg/mL | +/- 69.7112 |
| 3 | Ethyl acetate | 141-78-6 | SHBQ9682 | 99% | 2,010.7 µg/mL | +/- 69.4979 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,016.0 µg/mL | +/- 69.6822 |
| 5 | Propyl acetate | 109-60-4 | P8XLN | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 6 | Butyl acetate | 123-86-4 | SHBP6314 | 99% | 2,007.3 µg/mL | +/- 69.3826 |
| 7 | Amyl acetate | 628-63-7 | 41325/1 | 97% | 2,004.7 µg/mL | +/- 69.2905 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

## Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

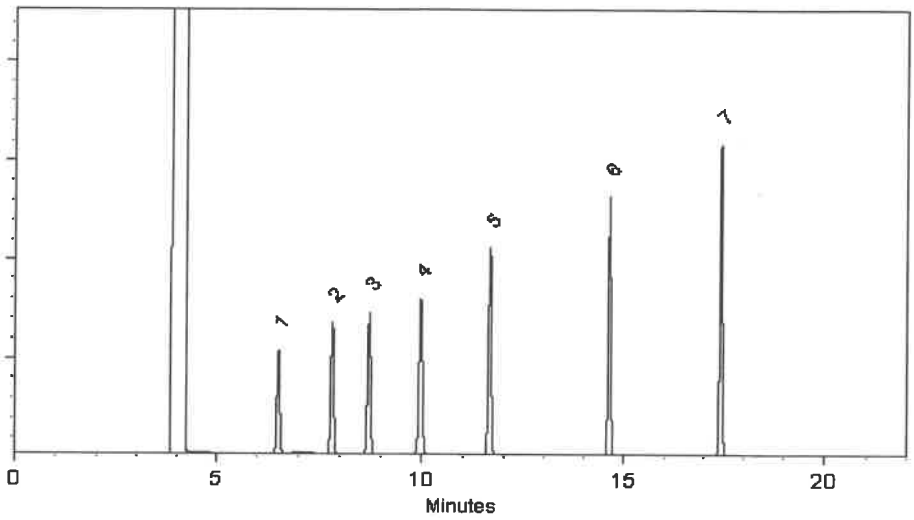
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

**Date Mixed:** 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

**Date Passed:** 01-Apr-2024

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30489 **Lot No.:** A0209618

**Description :** 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Methyl acetate | 79-20-9 | SHBP3100 | 99% | 2,019.3 µg/mL | +/- 69.7974 |
| 2 | Vinyl acetate | 108-05-4 | RP231030CTH | 98% | 2,016.8 µg/mL | +/- 69.7112 |
| 3 | Ethyl acetate | 141-78-6 | SHBQ9682 | 99% | 2,010.7 µg/mL | +/- 69.4979 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,016.0 µg/mL | +/- 69.6822 |
| 5 | Propyl acetate | 109-60-4 | P8XLN | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 6 | Butyl acetate | 123-86-4 | SHBP6314 | 99% | 2,007.3 µg/mL | +/- 69.3826 |
| 7 | Amyl acetate | 628-63-7 | 41325/1 | 97% | 2,004.7 µg/mL | +/- 69.2905 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

## Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

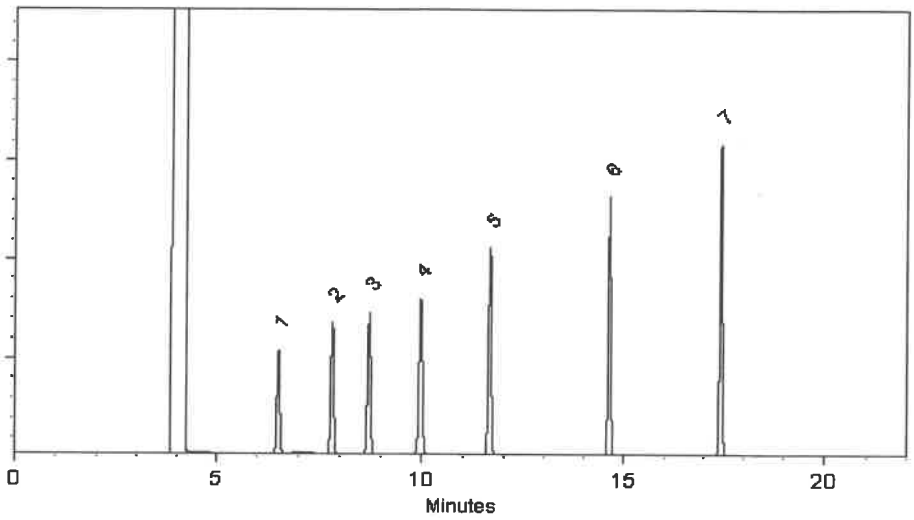
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

**Date Mixed:** 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

**Date Passed:** 01-Apr-2024

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***gravimetric***

ACCREDITED
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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. :** 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

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:

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

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# Certificate of Analysis

***chromatographic plus***

V14697-to-14726

ACCREDITED
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Reference Material Producer
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. :** 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.)

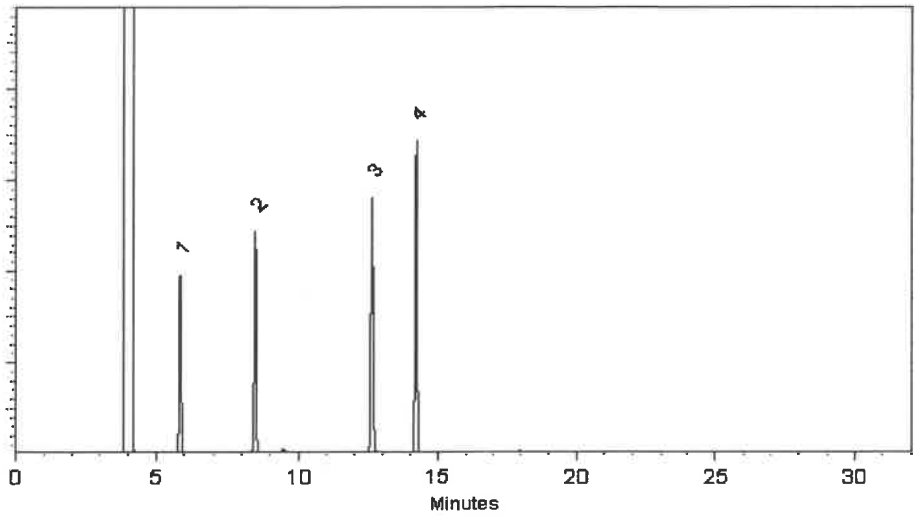
**Inj. Temp:**
200°C

**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

***chromatographic plus***

V14697-to-14726

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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. :** 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.)

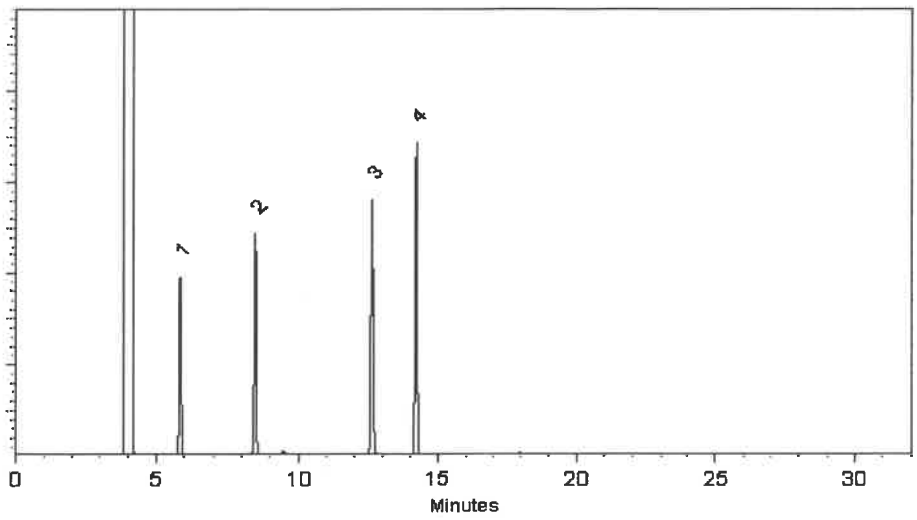
**Inj. Temp:**
200°C

**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

***chromatographic plus***

V14697-to-14726

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** 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.)

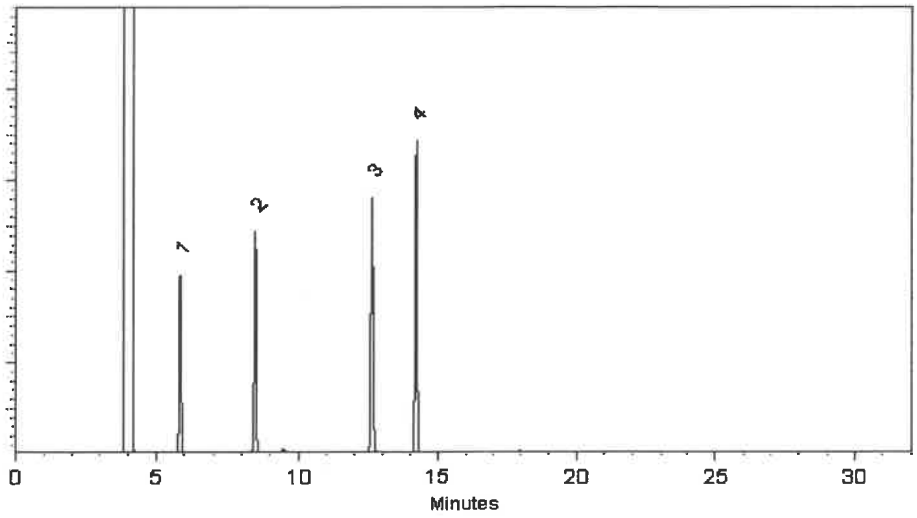
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl

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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.
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### Purity Notes:

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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:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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### Manufacturing Notes:

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### Handling Notes:

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CERTIFIED REFERENCE MATERIAL

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# Certificate of Analysis

***chromatographic plus***

V14697-to-14726

ACCREDITED
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Reference Material Producer
Certificate #3222.01

ACCREDITED
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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.)

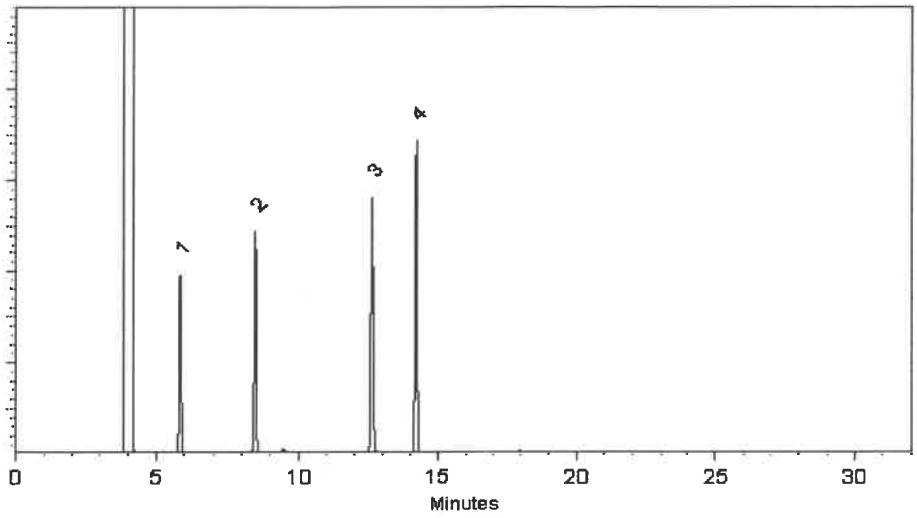
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl

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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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Fax: 1-814-353-1309

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Rec 12/17/24

# CERTIFIED REFERENCE MATERIAL

30 Vial

# Certificate of Analysis

## *chromatographic plus*

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** 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.

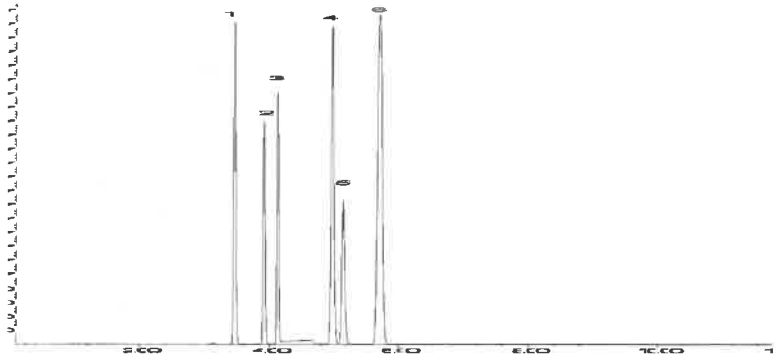
**Inj. Temp:**
200°C

**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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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

# Certificate of Analysis

***chromatographic plus***

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** 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.

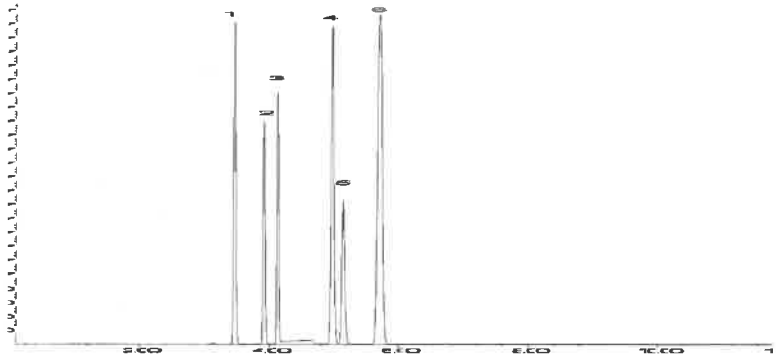
**Inj. Temp:**
200°C

**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

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

# Certificate of Analysis

***chromatographic plus***

J14842 to 14846

**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.:** A0217535

**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 :** October 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 | tert-Butanol (TBA) | 75-65-0 | SHBQ8002-1 | 99% | 50,007.5 µg/mL | +/- 717.6137 |

* 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.)

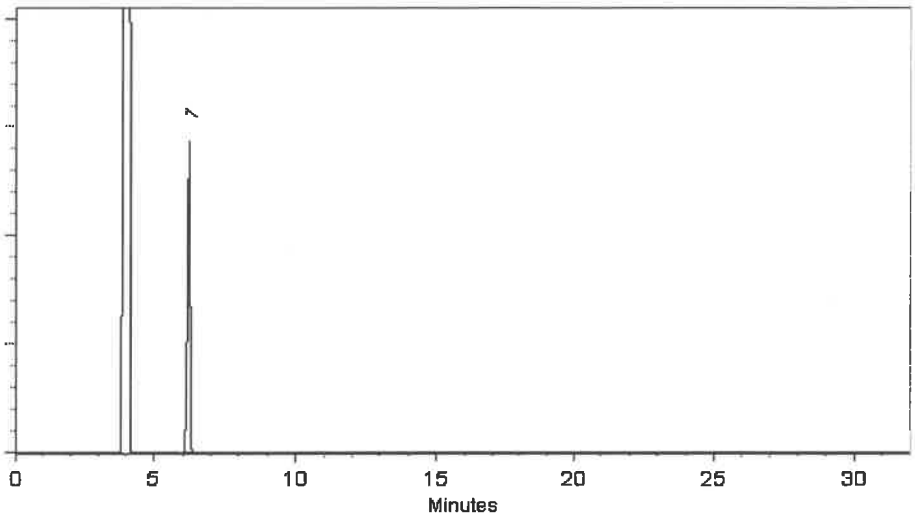
**Inj. Temp:**
200°C

**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.

Aaron Enyart - Operations Tech I

**Date Mixed:** 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

**Date Passed:** 09-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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Zoviy Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

# Certificate of Analysis

*chromatographic*

V14803 - V14822

**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.)

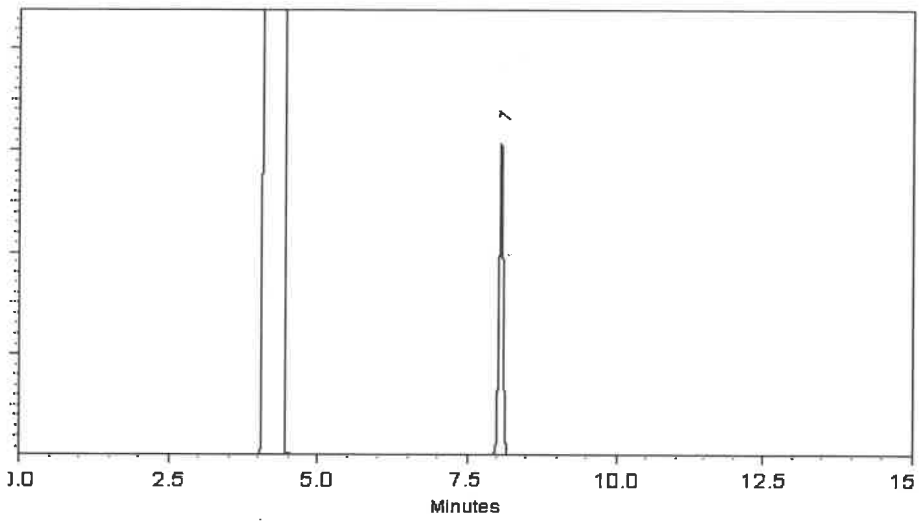
**Inj. Temp:**
200°C

**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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# CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

# Certificate of Analysis

*chromatographic*

V14803 - V14822

**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.)

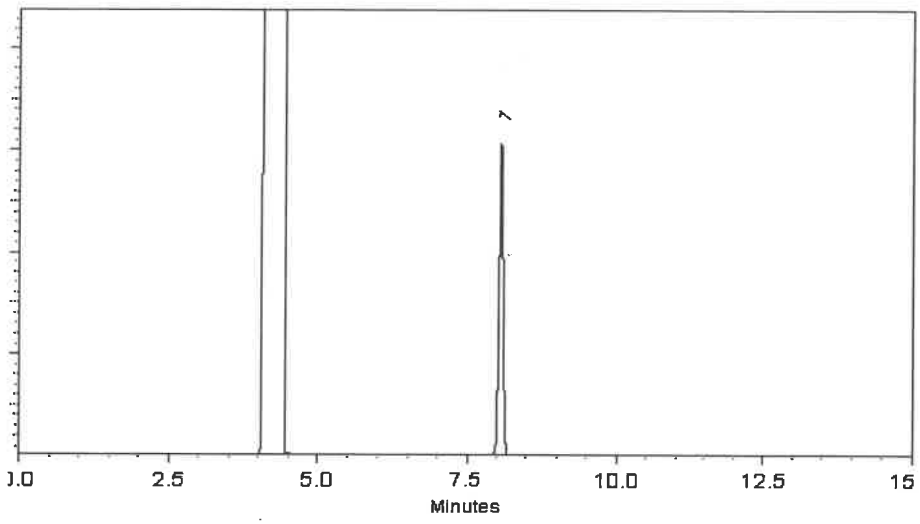
**Inj. Temp:**
200°C

**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.
- 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

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
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 | 0.3 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.3 |
| 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

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

**Certified Reference Material CRM**

Rec 05/21/25

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

5.v19

| | |
|---|---|
| **Part Number:** | 91980 |
| Lot Number: | 051925 |
| Description: | Acrolein |
| Expiration Date: | 061925 |
| Recommended Storage: | Refrigerate (4 °C) |
| Nominal Concentration (µg/mL): | 5000 |
| NIST Test ID#: | 6UTB |

**Solvent(s):** Water **Lot#** 041725Q

J14944-V14948

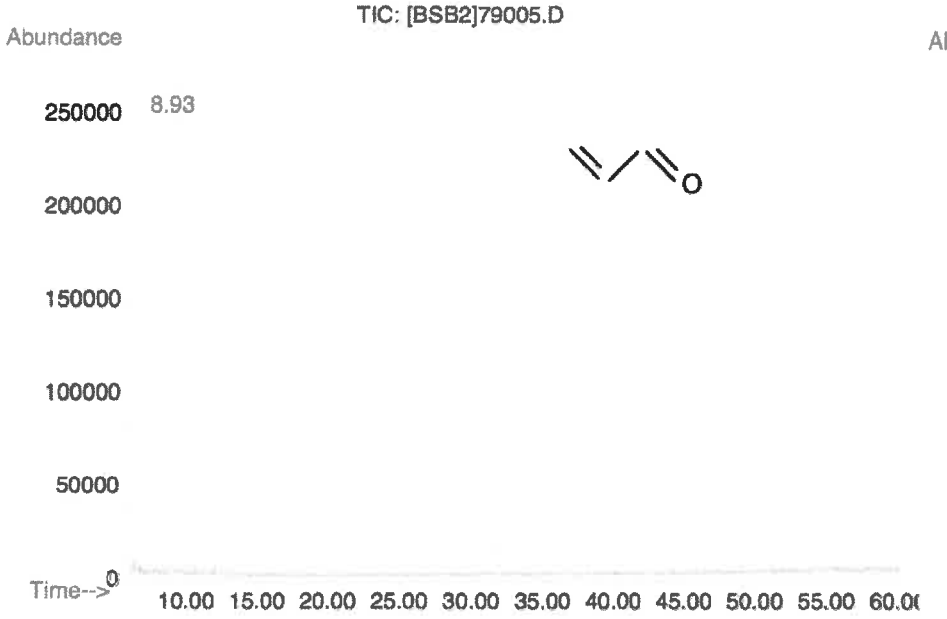
5E-05 Balance Uncertainty

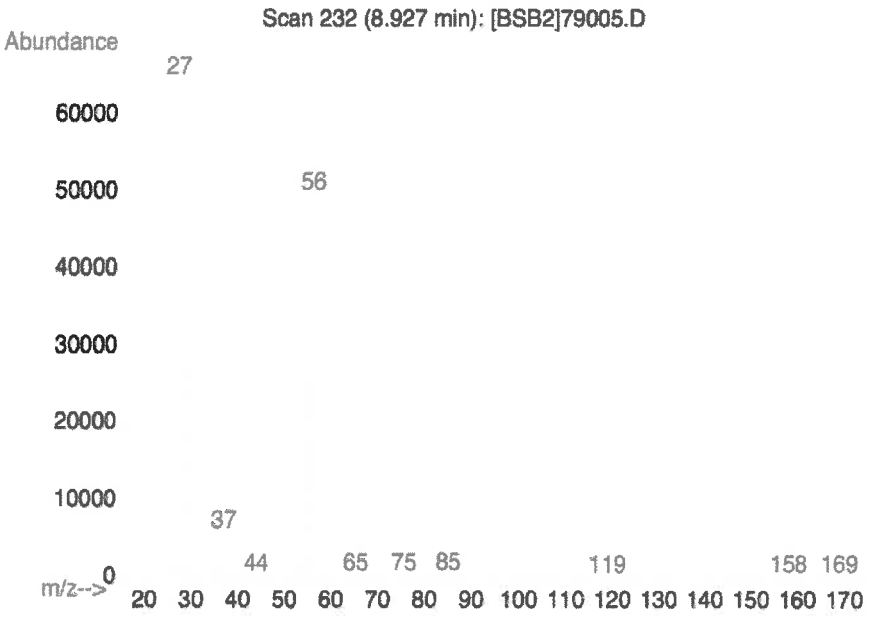
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

| Formulated By: | Lawrence Barry | 051925 DATE |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 051925 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 | 0.05170 | 5004.1 | 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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (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).**
  **Rev 1.0, 2/25/2025**

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

**Certified Reference Material CRM**

Rec 05/21/25

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

## CERTIFIED WEIGHT REPORT

5.0149

| | |
|---|---|
| **Part Number:** | 91980 |
| Lot Number: | 051925 |
| Description: | Acrolein |
| Expiration Date: | 061925 |
| Recommended Storage: | Refrigerate (4 °C) |
| Nominal Concentration (µg/mL): | 5000 |
| NIST Test ID#: | 6UTB |

**Solvent(s):** Water **Lot#** 041725Q

J14944-V14948

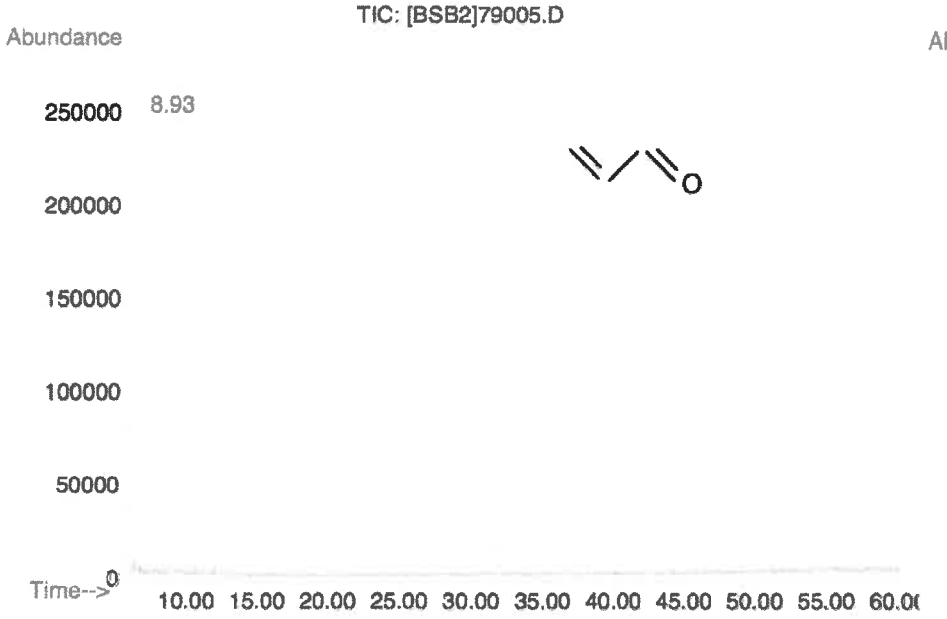
5E-05 Balance Uncertainty

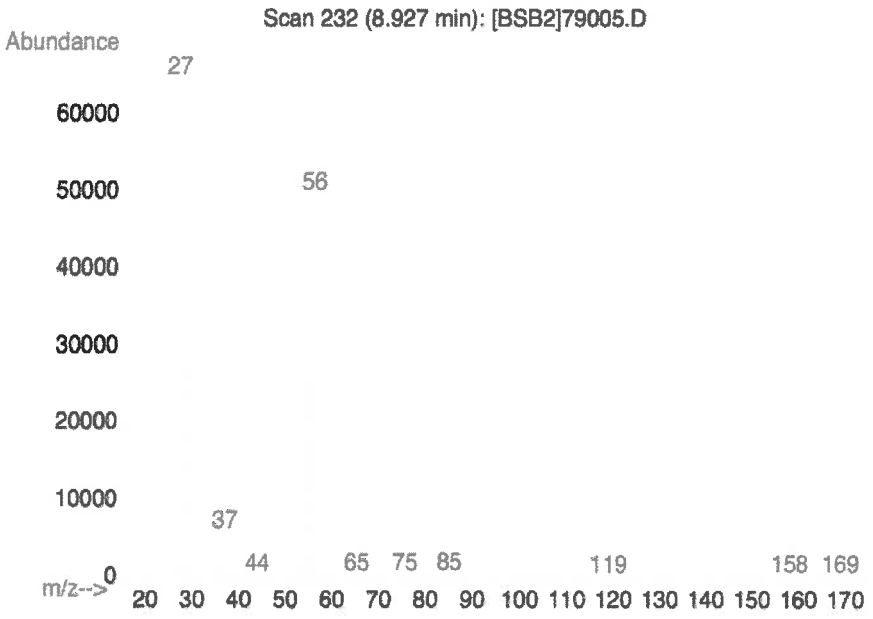
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

| Formulated By: | Lawrence Barry | 051925 DATE |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 051925 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 | 0.05170 | 5004.1 | 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.**
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Rec 05/21/25

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AR-1539 Certificate Number
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## CERTIFIED WEIGHT REPORT

5.0149

| | |
|---|---|
| **Part Number:** | 91980 |
| Lot Number: | 051925 |
| Description: | Acrolein |
| Expiration Date: | 061925 |
| Recommended Storage: | Refrigerate (4 °C) |
| Nominal Concentration (µg/mL): | 5000 |
| NIST Test ID#: | 6UTB |

**Solvent(s):** Water **Lot#** 041725Q

J14944-V14948

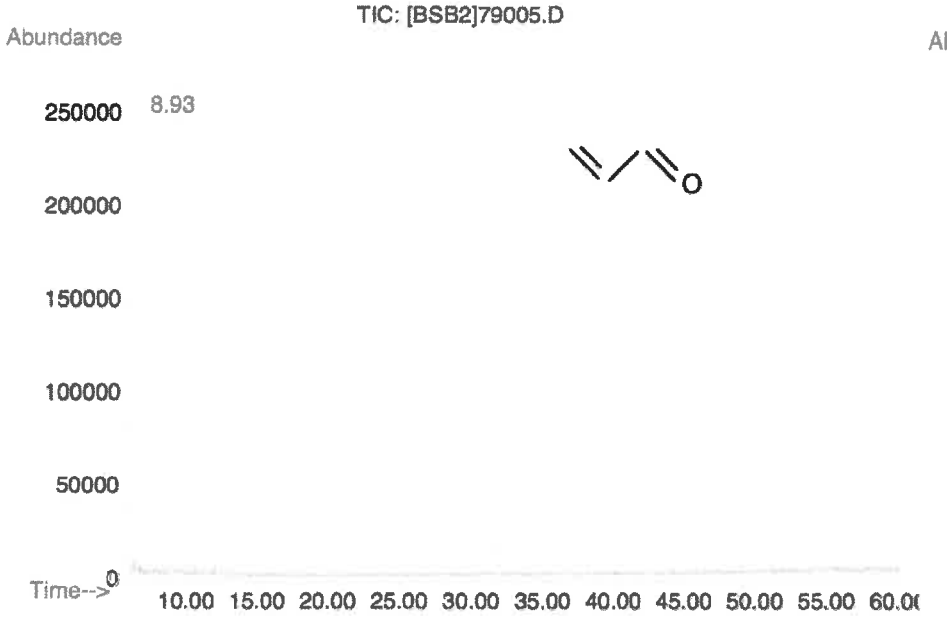
5E-05 Balance Uncertainty

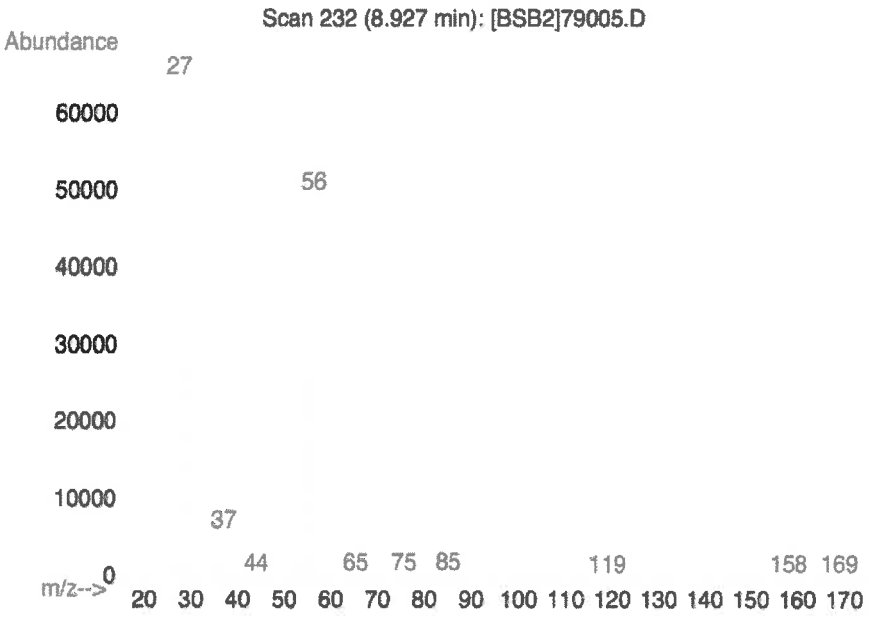
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

| Formulated By: | Lawrence Barry | 051925 DATE |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 051925 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 | 0.05170 | 5004.1 | 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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## CERTIFIED WEIGHT REPORT

5.0149

| | |
|---|---|
| **Part Number:** | 91980 |
| Lot Number: | 051925 |
| Description: | Acrolein |
| Expiration Date: | 061925 |
| Recommended Storage: | Refrigerate (4 °C) |
| Nominal Concentration (µg/mL): | 5000 |
| NIST Test ID#: | 6UTB |

**Solvent(s):** Water **Lot#** 041725Q

J14944-V14948

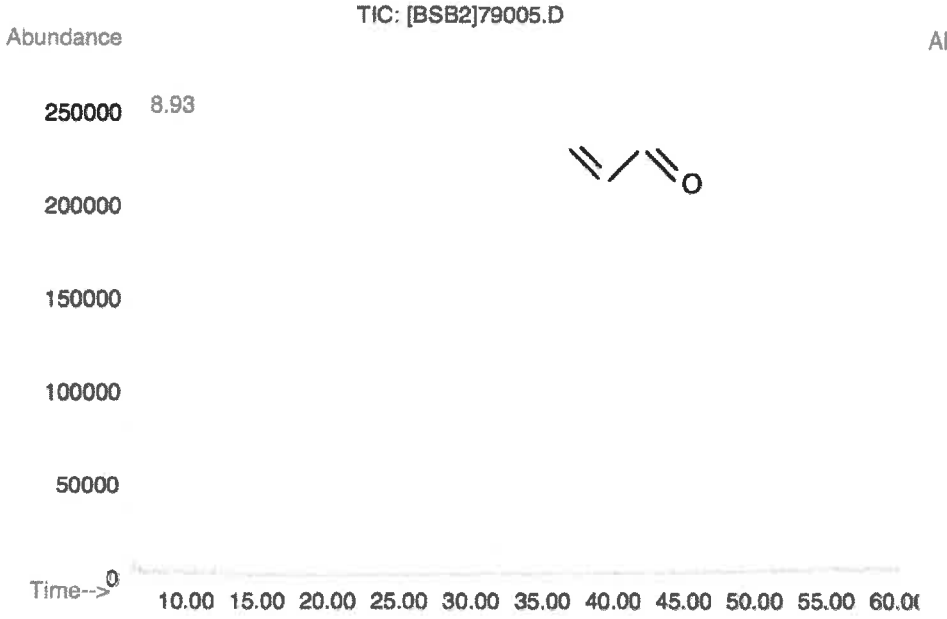
5E-05 Balance Uncertainty

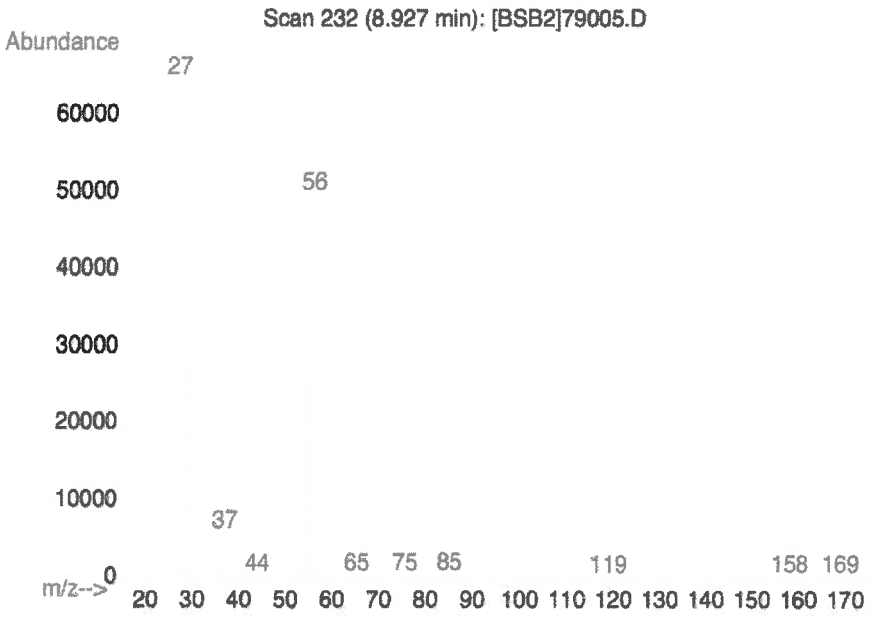
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

| Formulated By: | Lawrence Barry | 051925 DATE |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 051925 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 | 0.05170 | 5004.1 | 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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  **Rev 1.0, 2/25/2025**

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

# Preservation Log

**BalanceID:** VOA-SC-2

**Review By:** Amit

**Supervise By:** MMDadoda

| Seq | LabID | Vial A Weight(g)= Total Wt-Tare Wt | Vial A Time | Vial B Weight(g)= Total Wt-Tare Wt | Vial B Time | Vial C Weight(g) Preserve with MeOH | Vial C Time | Methanol ID | Preservation Date | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q2075-01 | 41.10-33.35=7.75 | 13:01 | 41.48-32.95=8.53 | 13:02 | 35.44-27.76=7.68 | 13:03 | V14143 | 05/19/2025 | 8260 TERRACORE SAMPLES |
| 2 | Q2075-02 | 41.15-33.13=8.02 | 13:47 | 40.14-32.48=7.66 | 13:48 | 35.62-27.77=7.85 | 13:49 | V14143 | 05/19/2025 | |
| 3 | Q2075-03 | 38.42-32.67=5.75 | 13:50 | 41.40-32.81=8.59 | 13:51 | 36.13-27.70=8.43 | 13:52 | V14143 | 05/19/2025 | |
| 4 | Q2075-04 | 41.48-33.06=8.42 | 13:09 | 40.19-32.99=7.2 | 13:10 | 35.99-27.98=8.01 | 13:11 | V14143 | 05/19/2025 | |
| 5 | Q2075-05 | 41.19-32.86=8.33 | 13:13 | 41.59-32.75=8.84 | 13:13 | 36.20-28.00=8.2 | 13:14 | V14143 | 05/19/2025 | |
| 6 | Q2075-06 | 39.61-32.57=7.04 | 13:15 | 40.51-33.10=7.41 | 13:17 | 36.08-27.72=8.36 | 13:17 | V14143 | 05/19/2025 | |

Instructions : For medium Level analysis, 5ml MeOH added for CLP(SOM/SFAM) method and 10ml for regular 8260.

If the samples are not to be analyzed within 48hrs of sampling, preserve samples immediately, Vials A and B are stored in the VOA-FRZ-2.

Vial C - MeOH preserved vials are kept in VOA-REF #6.

QA Contorl # A3041177

# SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2075
COC Number 2045940

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CDM Smith
ADDRESS: 110 Fieldcrest Ave. #8 6th Floor
CITY Edison STATE: NJ ZIP: 08837
ATTENTION: M. Encinas
PHONE: 732 590 4679 FAX:

## CLIENT PROJECT INFORMATION

PROJECT NAME: UTEN UST
PROJECT NO.: LOCATION: Mt. Vernon NY
PROJECT MANAGER: M. Encinas
e-mail: Encinas Ma@cdmsmith.com
PHONE: 732 590 4679 FAX:

## CLIENT BILLING INFORMATION

BILL TO: CDM Smith PO#:
ADDRESS: 110 Fieldcrest Ave #8 6th Floor
CITY Edison STATE: NJ ZIP: 0837
ATTENTION: M. Encinas PHONE: 732 590 4679

## DATA TURNAROUND INFORMATION

FAX (RUSH) 5 business DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

## DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☑ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

## ANALYSIS

1. MADEP Table 3 5 Day TAT
2. MADEP Table 3 CAM 5 Day TAT
3.
4.
5.
6.
7.
8.
9.

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES A-A S-P E 1 | PRESERVATIVES E 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | FB-05152025 | Aq | | ✓ | 5/15/25 | 1230 | 3 | ✓ | ✓ | | | | | | | | CP-51 Table 3 per email and see attached |
| 2. | SS-10 | Soil | | ✓ | 5/15/25 | 1310 | 5 | ✓ | ✓ | | | | | | | | |
| 3. | SS-910 | Soil | | ✓ | 5/15/25 | 1315 | 5 | ✓ | ✓ | | | | | | | | |
| 4. | SS-11 (MS/MSD) | Soil | | ✓ | 5/15/25 | 1400 | 15 | ✓ | ✓ | | | | | | | | |
| 5. | SS-MW1-11.5 | Soil | | ✓ | 5/16/25 | 0835 | 5 | ✓ | ✓ | | | | | | | | |
| 6. | FB-05162025 | Aq | | ✓ | 5/16/25 | 1535 | 3 | ✓ | ✓ | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

PRESERVATIVES: ← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. | 5/16/25 1555 | 1. |
| 2. | | 2. |
| 3. | | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.4 °C
Comments: IR Gun #1

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

Copyright © 2024

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 :** Q2075 CAMP02
**Client Name :** CDM Smith
**Client Contact :** Marcie Ann Encinas
**Invoice Name :** CDM Smith
**Invoice Contact :** Marcie Ann Encinas

**Order Date :** 5/16/2025 4:10:00 PM
**Project Name :** Con Ed UTEN Mount Vern
**Receive DateTime :** 5/16/2025 3:55:00 PM
**Purchase Order :**

**Project Mgr :**
**Report Type :** NYS ASP B
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q2075-01 | SS-10 | Solid | 05/15/2025 | ~~12:30~~ 13:10 | VOCMS Group3 | | 8260D | ~~10 Bus~~. Days | 5 days |
| Q2075-02 | SS-910 | Solid | 05/15/2025 | ~~13:10~~ 13:15 | VOCMS Group3 | | 8260D | ~~10 Bus~~. Days | |
| Q2075-03 | SS-11 | Solid | 05/15/2025 | ~~13:15~~ 14:00 | VOCMS Group3 | | 8260D | ~~10 Bus~~. Days | |
| Q2075-04 | Q2075-03MS | Solid | 05/15/2025 | ~~13:15~~ 14:00 | VOCMS Group3 | | 8260D | ~~10 Bus~~. Days | |
| Q2075-05 | Q2075-03MSD | Solid | 05/15/2025 | ~~13:15~~ 14:00 | VOCMS Group3 | | 8260D | ~~10 Bus~~. Days | |
| Q2075-06 | SS-MW1-11.5 | Solid | 05/16/2025 | 08:35 | VOCMS Group3 | | 8260D | ~~10 Bus~~. Days | |
| Q2075-07 | FB-05152025 | Water | 05/15/2025 | 12:30 | VOCMS Group3 | | 8260-Low | ~~10~~ Bus. Days | |
| Q2075-08 | FB-05162025 | Water | 05/16/2025 | 15:35 | | | | | |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q2075 CAMP02
**Client Name :** CDM Smith
**Client Contact :** Marcie Ann Encinas
**Invoice Name :** CDM Smith
**Invoice Contact :** Marcie Ann Encinas

**Order Date :** 5/16/2025 4:10:00 PM
**Project Name :** Con Ed UTEN Mount Vern
**Receive DateTime :** 5/16/2025 3:55:00 PM
**Purchase Order :**

**Project Mgr :**
**Report Type :** NYS ASP B
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOCMS Group3 | | 8260-Low | ~~10~~ Bus. Days | 5 Days | |

**Relinguished By :** CL
**Date / Time :** 5/19/25 11:30

**Received By :** Sam
**Date / Time :** 05/19/25 11:30
**Storage Area :** VOA Refridgerator Room