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# Cover Page

**Order ID :** Q3321

**Project ID :** RFP 918

**Client :** Weston Solutions, Inc.

| Lab Sample Number | Client Sample Number |
|---|---|
| Q3321-01 | P001-DS-01 |
| Q3321-02 | P001-DS-01 |

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: 10/13/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**Weston Solutions, Inc.**
**Project Name: RFP 918**
**Project # N/A**
**Order ID # Q3321**
**Test Name: VOC-TCLVOA-10**

**A. Number of Samples and Date of Receipt:**
1 Solid sample was received on 10/09/2025.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

**C. Analytical Techniques:**
The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOC-TCLVOA-10 was based on method 8260D.

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.

The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank Spike Duplicate met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

**E. Calculation**:
Low Level Soil Calculation in ug/Kg dry weight basis

$$\frac{(A_x)(I_s)(Df)}{(A_{is})(RRF)(Ws)(D)}$$

Where
Ax = Area for the compound to be measured
Ais = Area for the specific internal standard
Is = Amount of internal standard added in nanograms (ng)
RRF = Relative response factor of the initial calibration curve standard.
Df = Dilution factor

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Ws= Weight of sample
D= $\frac{100 - \%moisture}{100}$

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

Trip Blank was not provided with this set of samples.

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

**G. 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: Q3321 MATRIX: Solid

METHOD: 8260D

| | | NA | NO | YES |
|---|---|---|---|---|
| 1. | Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. | GC/MS Tuning Specifications<br>BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ) | | | ✓ |
| 3. | GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series. | | | ✓ |
| 4. | GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series. | | | ✓ |
| 5. | GC/MS Calibration Requirements.<br>The 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. | | | ✓ |
| 9. | Internal Standard Area/Retention Time Shift Meet Criteria<br>Comments: | | | ✓ |
| 10. | Analysis Holding Time Met<br>If not met, list number of days exceeded for each sample: | | | ✓ |

ADDITIONAL COMMENTS:

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

Trip Blank was not provided with this set of samples.

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

NA NO YES

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

_____ _____

QA REVIEW Date

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**APPENDIX A**

**QA REVIEW GENERAL DOCUMENTATION**

**Project #:** **Q3321**

| | 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:** **10/13/2025**

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q3321 | **OrderDate:** | 10/9/2025 10:30:00 AM |
| **Client:** | Weston Solutions, Inc. | **Project:** | RFP 918 |
| **Contact:** | Smita Sumbaly | **Location:** | D41,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q3321-01** | **P001-DS-01** | **SOIL** | | | **10/08/25** | | | **10/09/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 10/09/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3321

**Client:** Weston Solutions, Inc.

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|

**Client ID:**

0

**Total Voc :**

**Total Concentration:**

# QC SUMMARY

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# Surrogate Summary

**SDG No.:** Q3321

**Client:** Weston Solutions, Inc.

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| Q3321-01 | P001-DS-01 | 1,2-Dichloroethane-d4 | 50 | 61.9 | 124 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 53.7 | 107 | | 70 | 134 |
| | | Toluene-d8 | 50 | 52.1 | 104 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 50.8 | 102 | | 17 | 146 |
| VY1009SBL01 | VY1009SBL01 | 1,2-Dichloroethane-d4 | 50 | 63.4 | 127 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 54.5 | 109 | | 70 | 134 |
| | | Toluene-d8 | 50 | 52.1 | 104 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 49.8 | 100 | | 17 | 146 |
| VY1009SBS01 | VY1009SBS01 | 1,2-Dichloroethane-d4 | 50 | 45.8 | 92 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 47.9 | 96 | | 70 | 134 |
| | | Toluene-d8 | 50 | 47.9 | 96 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 46.0 | 92 | | 17 | 146 |
| VY1009SBSD01 | VY1009SBSD01 | 1,2-Dichloroethane-d4 | 50 | 47.2 | 94 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 49.5 | 99 | | 70 | 134 |
| | | Toluene-d8 | 50 | 50.4 | 101 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 47.7 | 95 | | 17 | 146 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q3321** | **Analytical Method:** | **SW8260D** |
| **Client:** | **Weston Solutions, Inc.** | **Datafile :** | VY023409.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VY1009SBS01** | Dichlorodifluoromethane | 20 | 21.1 | ug/Kg | 106 | | | 64 | 136 | |
| | Chloromethane | 20 | 19.7 | ug/Kg | 99 | | | 52 | 151 | |
| | Vinyl chloride | 20 | 19.5 | ug/Kg | 98 | | | 56 | 148 | |
| | Bromomethane | 20 | 20.2 | ug/Kg | 101 | | | 58 | 141 | |
| | Chloroethane | 20 | 20.4 | ug/Kg | 102 | | | 69 | 130 | |
| | Trichlorofluoromethane | 20 | 19.7 | ug/Kg | 99 | | | 69 | 134 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 20.9 | ug/Kg | 104 | | | 81 | 123 | |
| | 1,1-Dichloroethene | 20 | 19.8 | ug/Kg | 99 | | | 79 | 121 | |
| | Acetone | 100 | 120 | ug/Kg | 120 | | | 40 | 171 | |
| | Carbon disulfide | 20 | 20.5 | ug/Kg | 103 | | | 59 | 130 | |
| | Methyl tert-butyl Ether | 20 | 18.6 | ug/Kg | 93 | | | 77 | 129 | |
| | Methyl Acetate | 20 | 16.0 | ug/Kg | 80 | | | 69 | 149 | |
| | Methylene Chloride | 20 | 18.8 | ug/Kg | 94 | | | 72 | 131 | |
| | trans-1,2-Dichloroethene | 20 | 20.3 | ug/Kg | 102 | | | 80 | 123 | |
| | 1,1-Dichloroethane | 20 | 20.3 | ug/Kg | 102 | | | 82 | 123 | |
| | Cyclohexane | 20 | 19.7 | ug/Kg | 99 | | | 76 | 122 | |
| | 2-Butanone | 100 | 110 | ug/Kg | 110 | | | 69 | 131 | |
| | Carbon Tetrachloride | 20 | 20.6 | ug/Kg | 103 | | | 76 | 129 | |
| | cis-1,2-Dichloroethene | 20 | 19.8 | ug/Kg | 99 | | | 82 | 123 | |
| | Bromochloromethane | 20 | 20.0 | ug/Kg | 100 | | | 80 | 127 | |
| | Chloroform | 20 | 20.2 | ug/Kg | 101 | | | 82 | 125 | |
| | 1,1,1-Trichloroethane | 20 | 20.1 | ug/Kg | 101 | | | 80 | 126 | |
| | Methylcyclohexane | 20 | 20.1 | ug/Kg | 101 | | | 77 | 123 | |
| | Benzene | 20 | 20.8 | ug/Kg | 104 | | | 84 | 121 | |
| | 1,2-Dichloroethane | 20 | 19.8 | ug/Kg | 99 | | | 81 | 126 | |
| | Trichloroethene | 20 | 20.2 | ug/Kg | 101 | | | 83 | 122 | |
| | 1,2-Dichloropropane | 20 | 20.6 | ug/Kg | 103 | | | 83 | 122 | |
| | Bromodichloromethane | 20 | 20.0 | ug/Kg | 100 | | | 82 | 123 | |
| | 4-Methyl-2-Pentanone | 100 | 91.7 | ug/Kg | 92 | | | 70 | 135 | |
| | Toluene | 20 | 20.4 | ug/Kg | 102 | | | 83 | 122 | |
| | t-1,3-Dichloropropene | 20 | 18.8 | ug/Kg | 94 | | | 78 | 124 | |
| | cis-1,3-Dichloropropene | 20 | 19.6 | ug/Kg | 98 | | | 81 | 122 | |
| | 1,1,2-Trichloroethane | 20 | 19.5 | ug/Kg | 98 | | | 82 | 125 | |
| | 2-Hexanone | 100 | 100 | ug/Kg | 100 | | | 66 | 138 | |
| | Dibromochloromethane | 20 | 19.9 | ug/Kg | 100 | | | 79 | 125 | |
| | 1,2-Dibromoethane | 20 | 19.4 | ug/Kg | 97 | | | 80 | 125 | |
| | Tetrachloroethene | 20 | 19.4 | ug/Kg | 97 | | | 83 | 125 | |
| | Chlorobenzene | 20 | 19.8 | ug/Kg | 99 | | | 84 | 122 | |
| | Ethyl Benzene | 20 | 19.9 | ug/Kg | 100 | | | 82 | 124 | |
| | m/p-Xylenes | 40 | 39.9 | ug/Kg | 100 | | | 83 | 124 | |
| | o-Xylene | 20 | 19.6 | ug/Kg | 98 | | | 83 | 123 | |
| | Styrene | 20 | 19.7 | ug/Kg | 99 | | | 82 | 124 | |
| | Bromoform | 20 | 18.4 | ug/Kg | 92 | | | 75 | 127 | |
| | Isopropylbenzene | 20 | 19.9 | ug/Kg | 100 | | | 82 | 124 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 19.4 | ug/Kg | 97 | | | 77 | 127 | |
| | 1,3-Dichlorobenzene | 20 | 19.5 | ug/Kg | 98 | | | 83 | 122 | |
| | 1,4-Dichlorobenzene | 20 | 19.5 | ug/Kg | 98 | | | 84 | 121 | |
| | 1,2-Dichlorobenzene | 20 | 19.3 | ug/Kg | 97 | | | 83 | 124 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3321 **Analytical Method:** SW8260D

**Client:** Weston Solutions, Inc. **Datafile :** VY023409.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1009SBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 17.7 | ug/Kg | 89 | | | 66 | 134 | |
| | 1,2,4-Trichlorobenzene | 20 | 17.4 | ug/Kg | 87 | | | 78 | 127 | |
| | 1,2,3-Trichlorobenzene | 20 | 17.1 | ug/Kg | 86 | | | 70 | 137 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q3321** | **Analytical Method:** | **SW8260D** |
| **Client:** | **Weston Solutions, Inc.** | **Datafile :** | VY023410.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VY1009SBSD01** | Dichlorodifluoromethane | 20 | 22.2 | ug/Kg | 111 | 5 | | 64 | 136 | 20 |
| | Chloromethane | 20 | 20.6 | ug/Kg | 103 | 4 | | 52 | 151 | 20 |
| | Vinyl chloride | 20 | 20.4 | ug/Kg | 102 | 4 | | 56 | 148 | 20 |
| | Bromomethane | 20 | 20.9 | ug/Kg | 104 | 3 | | 58 | 141 | 20 |
| | Chloroethane | 20 | 21.2 | ug/Kg | 106 | 4 | | 69 | 130 | 20 |
| | Trichlorofluoromethane | 20 | 20.4 | ug/Kg | 102 | 3 | | 69 | 134 | 20 |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.2 | ug/Kg | 106 | 2 | | 81 | 123 | 20 |
| | 1,1-Dichloroethene | 20 | 20.6 | ug/Kg | 103 | 4 | | 79 | 121 | 20 |
| | Acetone | 100 | 120 | ug/Kg | 120 | 0 | | 40 | 171 | 20 |
| | Carbon disulfide | 20 | 21.1 | ug/Kg | 106 | 3 | | 59 | 130 | 20 |
| | Methyl tert-butyl Ether | 20 | 19.4 | ug/Kg | 97 | 4 | | 77 | 129 | 20 |
| | Methyl Acetate | 20 | 16.3 | ug/Kg | 81 | 1 | | 69 | 149 | 20 |
| | Methylene Chloride | 20 | 19.2 | ug/Kg | 96 | 2 | | 72 | 131 | 20 |
| | trans-1,2-Dichloroethene | 20 | 21.0 | ug/Kg | 105 | 3 | | 80 | 123 | 20 |
| | 1,1-Dichloroethane | 20 | 20.8 | ug/Kg | 104 | 2 | | 82 | 123 | 20 |
| | Cyclohexane | 20 | 20.2 | ug/Kg | 101 | 2 | | 76 | 122 | 20 |
| | 2-Butanone | 100 | 110 | ug/Kg | 110 | 0 | | 69 | 131 | 20 |
| | Carbon Tetrachloride | 20 | 21.4 | ug/Kg | 107 | 4 | | 76 | 129 | 20 |
| | cis-1,2-Dichloroethene | 20 | 20.8 | ug/Kg | 104 | 5 | | 82 | 123 | 20 |
| | Bromochloromethane | 20 | 20.5 | ug/Kg | 103 | 3 | | 80 | 127 | 20 |
| | Chloroform | 20 | 20.9 | ug/Kg | 104 | 3 | | 82 | 125 | 20 |
| | 1,1,1-Trichloroethane | 20 | 21.0 | ug/Kg | 105 | 4 | | 80 | 126 | 20 |
| | Methylcyclohexane | 20 | 21.1 | ug/Kg | 106 | 5 | | 77 | 123 | 20 |
| | Benzene | 20 | 21.4 | ug/Kg | 107 | 3 | | 84 | 121 | 20 |
| | 1,2-Dichloroethane | 20 | 20.7 | ug/Kg | 104 | 5 | | 81 | 126 | 20 |
| | Trichloroethene | 20 | 21.1 | ug/Kg | 106 | 5 | | 83 | 122 | 20 |
| | 1,2-Dichloropropane | 20 | 21.3 | ug/Kg | 106 | 3 | | 83 | 122 | 20 |
| | Bromodichloromethane | 20 | 20.8 | ug/Kg | 104 | 4 | | 82 | 123 | 20 |
| | 4-Methyl-2-Pentanone | 100 | 94.8 | ug/Kg | 95 | 3 | | 70 | 135 | 20 |
| | Toluene | 20 | 21.4 | ug/Kg | 107 | 5 | | 83 | 122 | 20 |
| | t-1,3-Dichloropropene | 20 | 19.9 | ug/Kg | 100 | 6 | | 78 | 124 | 20 |
| | cis-1,3-Dichloropropene | 20 | 20.8 | ug/Kg | 104 | 6 | | 81 | 122 | 20 |
| | 1,1,2-Trichloroethane | 20 | 20.4 | ug/Kg | 102 | 4 | | 82 | 125 | 20 |
| | 2-Hexanone | 100 | 100 | ug/Kg | 100 | 0 | | 66 | 138 | 20 |
| | Dibromochloromethane | 20 | 20.5 | ug/Kg | 103 | 3 | | 79 | 125 | 20 |
| | 1,2-Dibromoethane | 20 | 20.0 | ug/Kg | 100 | 3 | | 80 | 125 | 20 |
| | Tetrachloroethene | 20 | 21.7 | ug/Kg | 109 | 12 | | 83 | 125 | 20 |
| | Chlorobenzene | 20 | 21.2 | ug/Kg | 106 | 7 | | 84 | 122 | 20 |
| | Ethyl Benzene | 20 | 20.9 | ug/Kg | 104 | 4 | | 82 | 124 | 20 |
| | m/p-Xylenes | 40 | 42.3 | ug/Kg | 106 | 6 | | 83 | 124 | 20 |
| | o-Xylene | 20 | 20.7 | ug/Kg | 104 | 6 | | 83 | 123 | 20 |
| | Styrene | 20 | 20.7 | ug/Kg | 104 | 5 | | 82 | 124 | 20 |
| | Bromoform | 20 | 19.5 | ug/Kg | 98 | 6 | | 75 | 127 | 20 |
| | Isopropylbenzene | 20 | 21.1 | ug/Kg | 106 | 6 | | 82 | 124 | 20 |
| | 1,1,2,2-Tetrachloroethane | 20 | 19.7 | ug/Kg | 99 | 2 | | 77 | 127 | 20 |
| | 1,3-Dichlorobenzene | 20 | 20.8 | ug/Kg | 104 | 6 | | 83 | 122 | 20 |
| | 1,4-Dichlorobenzene | 20 | 20.7 | ug/Kg | 104 | 6 | | 84 | 121 | 20 |
| | 1,2-Dichlorobenzene | 20 | 20.6 | ug/Kg | 103 | 6 | | 83 | 124 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3321 **Analytical Method:** SW8260D

**Client:** Weston Solutions, Inc. **Datafile :** VY023410.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1009SBSD01 | 1,2-Dibromo-3-Chloropropane | 20 | 19.1 | ug/Kg | 96 | 8 | | 66 | 134 | 20 |
| | 1,2,4-Trichlorobenzene | 20 | 18.6 | ug/Kg | 93 | 7 | | 78 | 127 | 20 |
| | 1,2,3-Trichlorobenzene | 20 | 18.2 | ug/Kg | 91 | 6 | | 70 | 137 | 20 |

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# VOLATILE METHOD BLANK SUMMARY

Client ID: VY1009SBL01

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG NO.: Q3321

Lab File ID: VY023408.D Lab Sample ID: VY1009SBL01

Date Analyzed: 10/09/2025 Time Analyzed: 09:16

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 |
|---|---|---|---|
| VY1009SBS01 | VY1009SBS01 | VY023409.D | 10/09/2025 |
| VY1009SBSD01 | VY1009SBSD01 | VY023410.D | 10/09/2025 |
| P001-DS-01 | Q3321-01 | VY023419.D | 10/09/2025 |

COMMENTS:

Raw Data: **VY023383.D**

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

Lab Name: Alliance
Contract: ROYF02
Lab Code: ACE
SDG NO.: Q3321
Lab File ID: VY023383.D
BFB Injection Date: 10/07/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 08:43
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 | 16.9 |
| 75 | 30.0 - 60.0% of mass 95 | 48.1 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 |
| 173 | Less than 2.0% of mass 174 | 0.9 ( 0.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 99.1 |
| 175 | 5.0 - 9.0% of mass 174 | 7.3 ( 7.4 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 95.4 ( 96.2 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 6.3 ( 6.6 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VY023384.D | 10/07/2025 | 09:17 |
| VSTDICC010 | VSTDICC010 | VY023385.D | 10/07/2025 | 10:02 |
| VSTDICC020 | VSTDICC020 | VY023386.D | 10/07/2025 | 11:24 |
| VSTDICCC050 | VSTDICCC050 | VY023387.D | 10/07/2025 | 11:47 |
| VSTDICC100 | VSTDICC100 | VY023388.D | 10/07/2025 | 12:09 |
| VSTDICC150 | VSTDICC150 | VY023389.D | 10/07/2025 | 12:32 |

Raw Data: **VY023406.D**

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Fax : 908 789 8922

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

Lab Name: Alliance
Contract: ROYF02
Lab Code: ACE
SDG NO.: Q3321
Lab File ID: VY023406.D
BFB Injection Date: 10/09/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 08:16
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 | 16.8 |
| 75 | 30.0 - 60.0% of mass 95 | 49.1 |
| 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 | 1.1 ( 1.1 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 95 |
| 175 | 5.0 - 9.0% of mass 174 | 6.9 ( 7.3 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 91.2 ( 95.9 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 6.3 ( 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:

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY023407.D | 10/09/2025 | 08:47 |
| VY1009SBL01 | VY1009SBL01 | VY023408.D | 10/09/2025 | 09:16 |
| VY1009SBS01 | VY1009SBS01 | VY023409.D | 10/09/2025 | 09:45 |
| VY1009SBSD01 | VY1009SBSD01 | VY023410.D | 10/09/2025 | 10:08 |
| P001-DS-01 | Q3321-01 | VY023419.D | 10/09/2025 | 13:44 |

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG NO.: Q3321

Lab File ID: VY023407.D Date Analyzed: 10/09/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:47

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 | 540041 | 7.71 | 774126 | 8.62 | 696341 | 11.42 |
| UPPER LIMIT | 1080080 | 8.213 | 1548250 | 9.116 | 1392680 | 11.92 |
| LOWER LIMIT | 270021 | 7.213 | 387063 | 8.116 | 348171 | 10.92 |
| EPA SAMPLE NO. | | | | | | |
| P001-DS-01 | 583600 | 7.71 | 1144139 | 8.62 | 1117620 | 11.41 |
| VY1009SBL01 | 586622 | 7.71 | 1154324 | 8.62 | 1109408 | 11.42 |
| VY1009SBS01 | 563762 | 7.71 | 821828 | 8.62 | 727518 | 11.42 |
| VY1009SBSD01 | 547576 | 7.71 | 791873 | 8.62 | 696551 | 11.41 |

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: Alliance Contract: ROYF02

Lab Code: ACE SDG NO.: Q3321

Lab File ID: VY023407.D Date Analyzed: 10/09/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:47

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 360790 | 13.347 | | | | |
| UPPER LIMIT | 721580 | 13.847 | | | | |
| LOWER LIMIT | 180395 | 12.847 | | | | |
| EPA SAMPLE NO. | | | | | | |
| P001-DS-01 | 466443 | 13.35 | | | | |
| VY1009SBL01 | 466996 | 13.35 | | | | |
| VY1009SBS01 | 376801 | 13.35 | | | | |
| VY1009SBSD01 | 359830 | 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

Raw Data: **VY023419.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | 10/08/25 |
| Project: | RFP 918 | Date Received: | 10/09/25 |
| Client Sample ID: | P001-DS-01 | SDG No.: | Q3321 |
| Lab Sample ID: | Q3321-01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 78.4 |
| Sample Wt/Vol: | 5.6 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023419.D | 1 | 10/09/25 13:44 | VY100925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.30 | U | 1.30 | 5.70 | ug/Kg |
| 74-87-3 | Chloromethane | 1.30 | U | 1.30 | 5.70 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.90 | U | 0.90 | 5.70 | ug/Kg |
| 74-83-9 | Bromomethane | 1.20 | U | 1.20 | 5.70 | ug/Kg |
| 75-00-3 | Chloroethane | 1.40 | U | 1.40 | 5.70 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.40 | U | 1.40 | 5.70 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.20 | U | 1.20 | 5.70 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 1.10 | U | 1.10 | 5.70 | ug/Kg |
| 67-64-1 | Acetone | 5.40 | U | 5.40 | 28.5 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.20 | U | 1.20 | 5.70 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.83 | U | 0.83 | 5.70 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.80 | U | 1.80 | 5.70 | ug/Kg |
| 75-09-2 | Methylene Chloride | 4.00 | U | 4.00 | 11.4 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.98 | U | 0.98 | 5.70 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.91 | U | 0.91 | 5.70 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.90 | U | 0.90 | 5.70 | ug/Kg |
| 78-93-3 | 2-Butanone | 7.40 | U | 7.40 | 28.5 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.10 | U | 1.10 | 5.70 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.85 | U | 0.85 | 5.70 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.30 | U | 1.30 | 5.70 | ug/Kg |
| 67-66-3 | Chloroform | 0.96 | U | 0.96 | 5.70 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.10 | U | 1.10 | 5.70 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.00 | U | 1.00 | 5.70 | ug/Kg |
| 71-43-2 | Benzene | 0.90 | U | 0.90 | 5.70 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.90 | U | 0.90 | 5.70 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.92 | U | 0.92 | 5.70 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 1.00 | U | 1.00 | 5.70 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.89 | U | 0.89 | 5.70 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 4.10 | U | 4.10 | 28.5 | ug/Kg |
| 108-88-3 | Toluene | 0.89 | U | 0.89 | 5.70 | ug/Kg |

Raw Data: **VY023419.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | 10/08/25 |
| Project: | RFP 918 | Date Received: | 10/09/25 |
| Client Sample ID: | P001-DS-01 | SDG No.: | Q3321 |
| Lab Sample ID: | Q3321-01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 78.4 |
| Sample Wt/Vol: | 5.6 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023419.D | 1 | 10/09/25 13:44 | VY100925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.74 | U | 0.74 | 5.70 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.71 | U | 0.71 | 5.70 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 1.00 | U | 1.00 | 5.70 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.20 | U | 4.20 | 28.5 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.99 | U | 0.99 | 5.70 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 1.00 | U | 1.00 | 5.70 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.20 | U | 1.20 | 5.70 | ug/Kg |
| 108-90-7 | Chlorobenzene | 1.00 | U | 1.00 | 5.70 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.76 | U | 0.76 | 5.70 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.40 | U | 1.40 | 11.4 | ug/Kg |
| 95-47-6 | o-Xylene | 0.93 | U | 0.93 | 5.70 | ug/Kg |
| 100-42-5 | Styrene | 0.81 | U | 0.81 | 5.70 | ug/Kg |
| 75-25-2 | Bromoform | 0.98 | U | 0.98 | 5.70 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.89 | U | 0.89 | 5.70 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.40 | U | 1.40 | 5.70 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.90 | U | 1.90 | 5.70 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.80 | U | 1.80 | 5.70 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.70 | U | 1.70 | 5.70 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.10 | U | 2.10 | 5.70 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.40 | U | 3.40 | 5.70 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.60 | U | 3.60 | 5.70 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 61.9 | | 63 - 155 | 124% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.7 | | 70 - 134 | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.1 | | 74 - 123 | 104% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.8 | | 17 - 146 | 102% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 584000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1140000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 1120000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 466000 | 13.346 | | | |

Raw Data: **VY023419.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | 10/08/25 |
| Project: | RFP 918 | Date Received: | 10/09/25 |
| Client Sample ID: | P001-DS-01 | SDG No.: | Q3321 |
| Lab Sample ID: | Q3321-01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 78.4 |
| Sample Wt/Vol: | 5.6 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023419.D | 1 | 10/09/25 13:44 | VY100925 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023419.D
Acq On : 09 Oct 2025 13:44
Operator : SY/MD
Sample : Q3321-01
Misc : 5.60g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
P001-DS-01

Quant Time: Oct 10 04:26:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 583600 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 1144139 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 1117620 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 466443 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 302021 | 61.888 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 123.780% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 377647 | 53.718 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 107.440% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 1365268 | 52.147 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 104.300% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 439445 | 50.840 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 101.680% | | | |

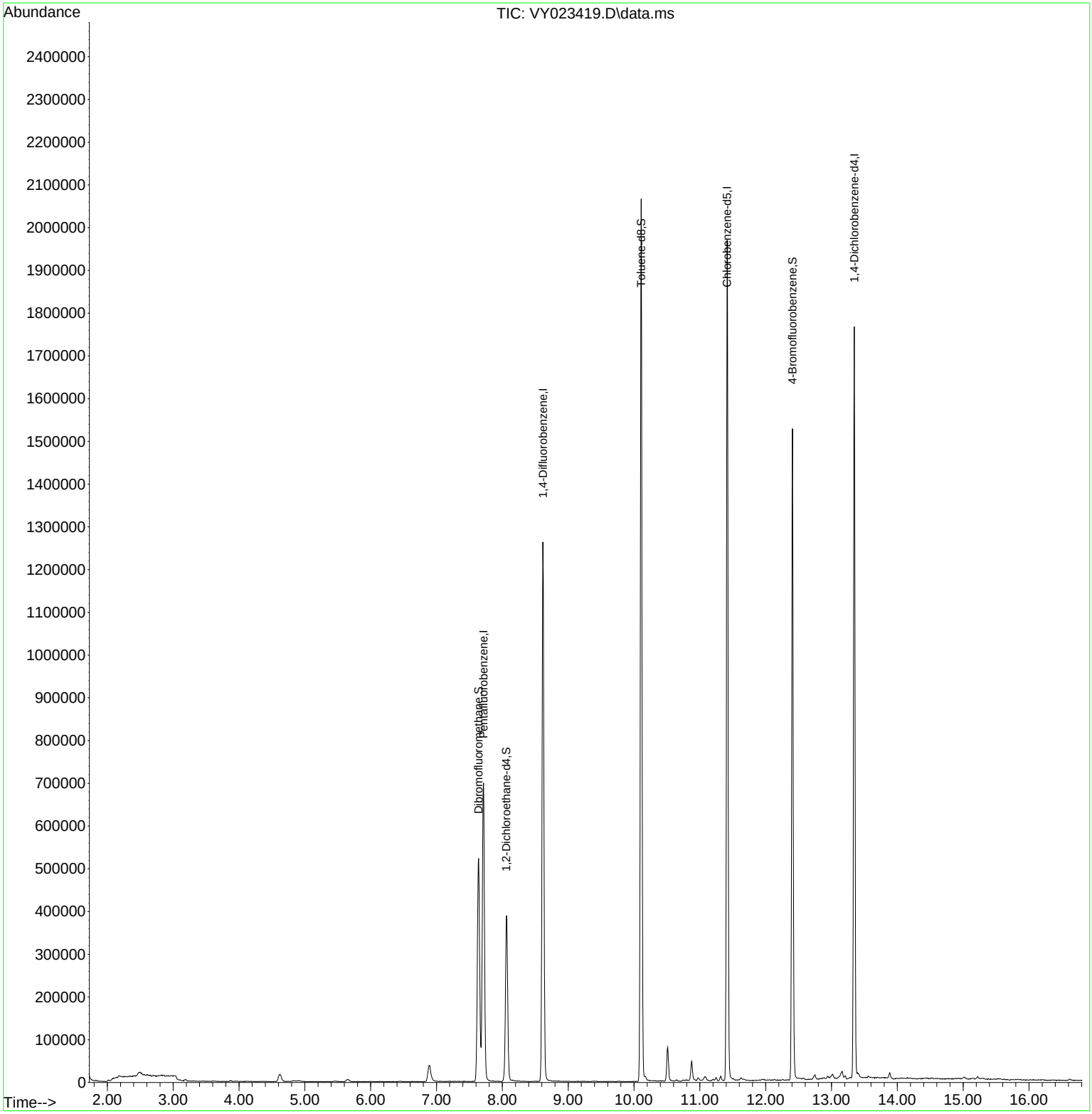
Target Compounds Qvalue

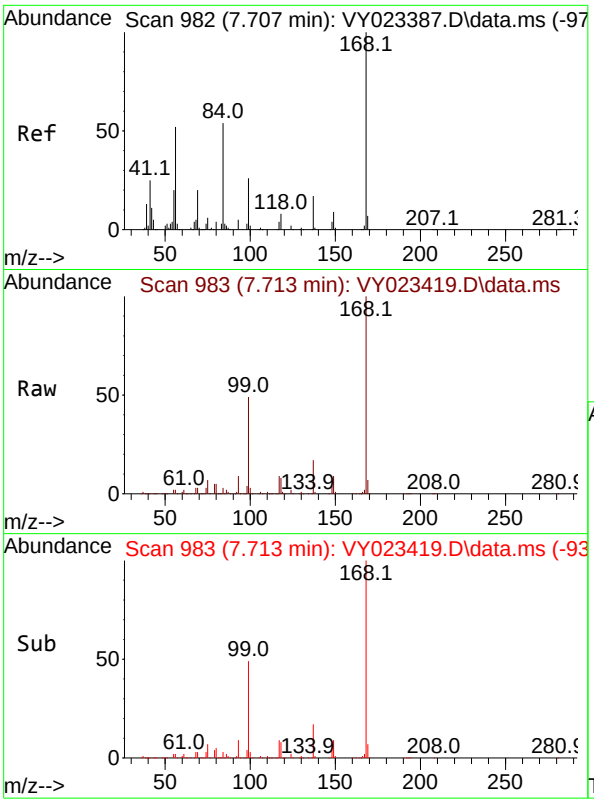
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023419.D
Acq On : 09 Oct 2025 13:44
Operator : SY/MD
Sample : Q3321-01
Misc : 5.60g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
P001-DS-01

Quant Time: Oct 10 04:26:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration



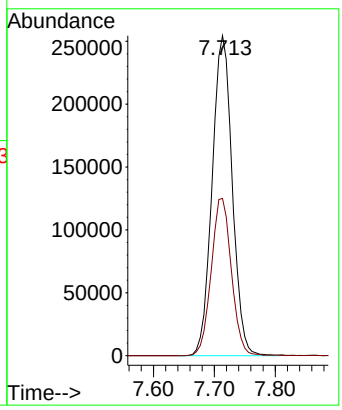


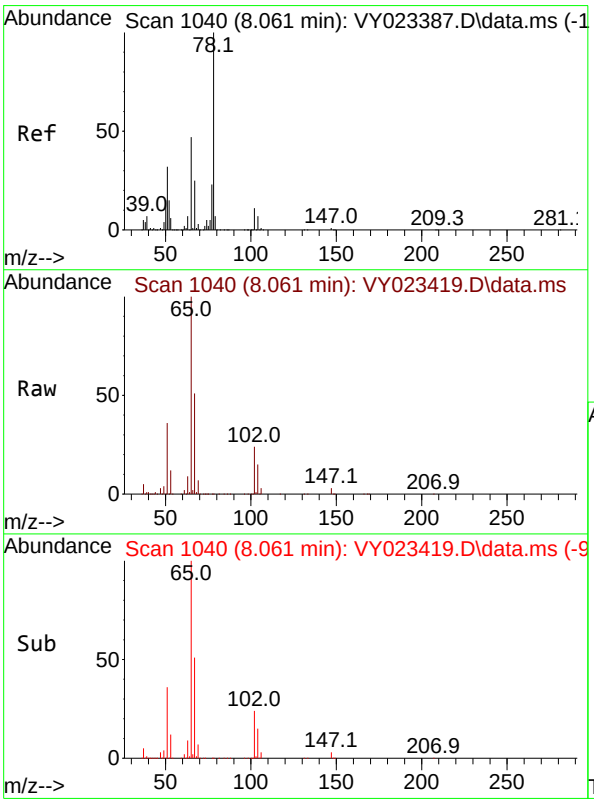

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023419.D
Acq: 09 Oct 2025 13:44

**Instrument :**
MSVOA_Y
**ClientSampleId :**
P001-DS-01

Tgt Ion:168 Resp: 583600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 49.2 | 39.7 | 59.5 |

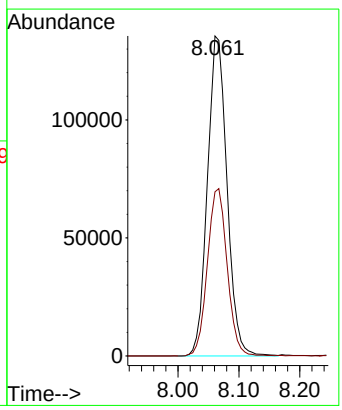


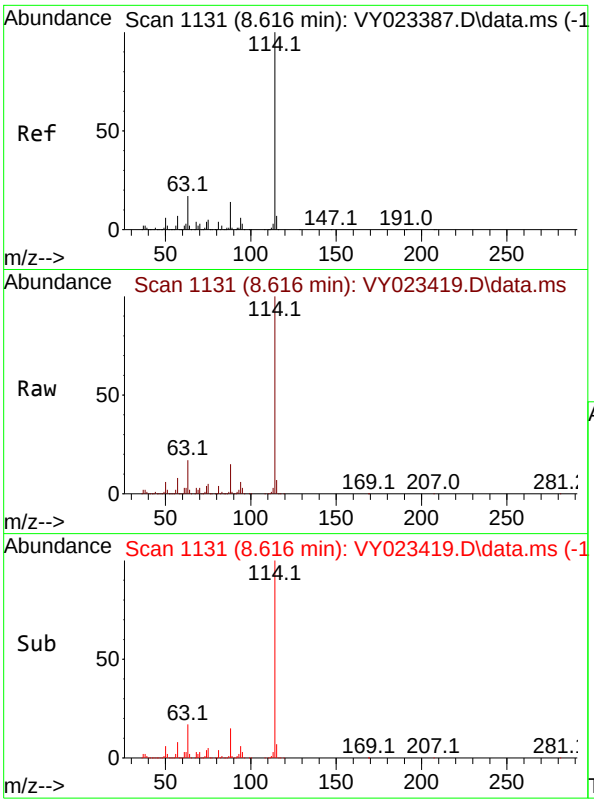




#33
1,2-Dichloroethane-d4
Concen: 61.888 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY023419.D
Acq: 09 Oct 2025 13:44

Tgt Ion: 65 Resp: 302021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.0 | 0.0 | 105.8 |



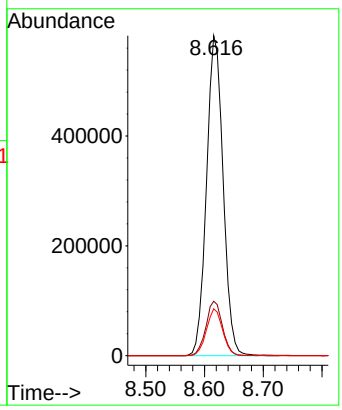


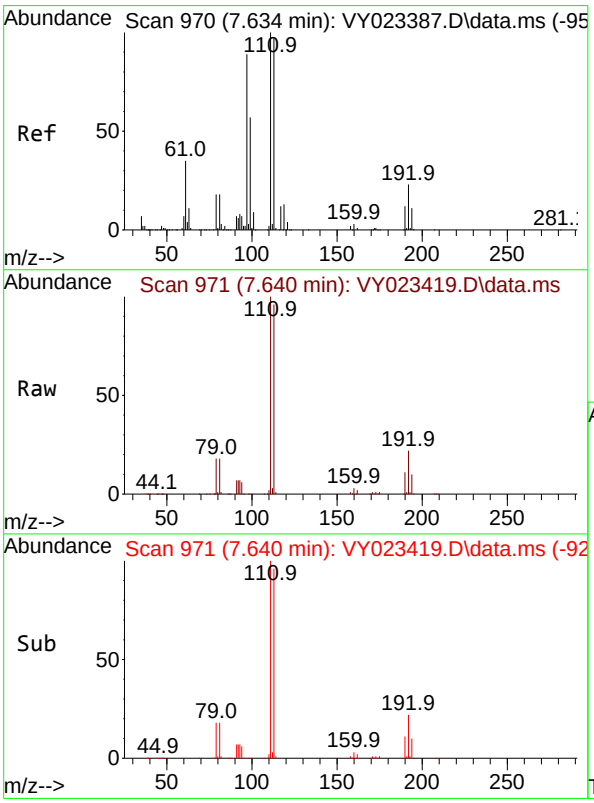

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023419.D
Acq: 09 Oct 2025 13:44

**Instrument :**
MSVOA_Y
**ClientSampleId :**
P001-DS-01

Tgt Ion:114 Resp: 1144139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.0 | 0.0 | 34.2 |
| 88 | 14.6 | 0.0 | 28.4 |

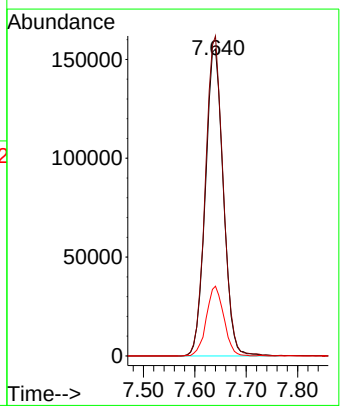


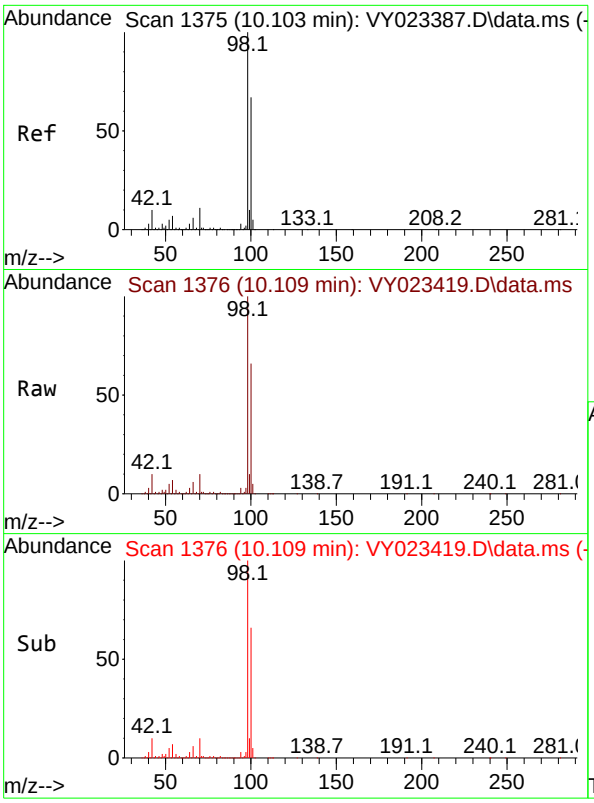




#35
Dibromofluoromethane
Concen: 53.718 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023419.D
Acq: 09 Oct 2025 13:44

Tgt Ion:113 Resp: 377647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.0 | 81.8 | 122.6 |
| 192 | 22.1 | 18.0 | 27.0 |



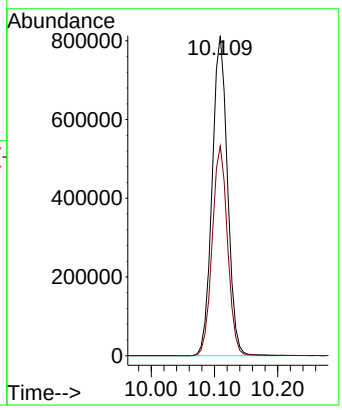


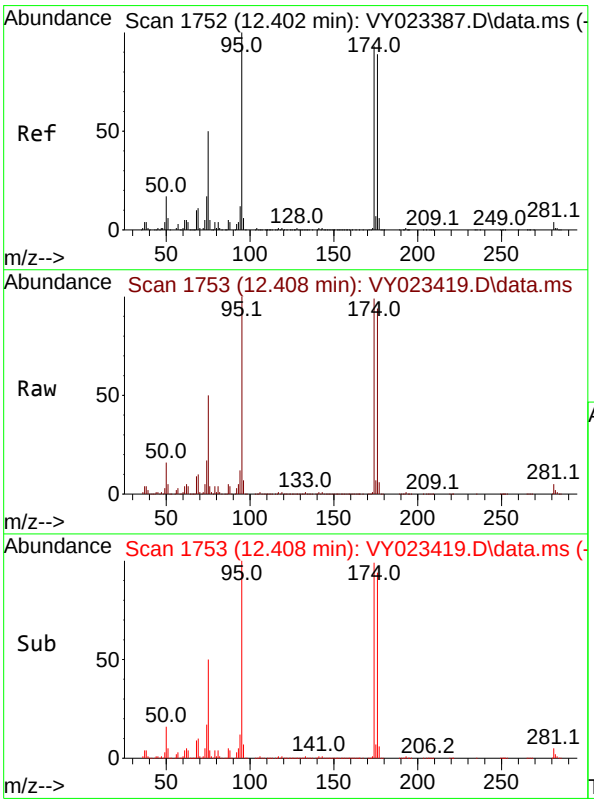

#50
Toluene-d8
Concen: 52.147 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023419.D
Acq: 09 Oct 2025 13:44

**Instrument :**
MSVOA_Y
**ClientSampleId :**
P001-DS-01

Tgt Ion: 98 Resp: 1365268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 53.0 | 79.4 |

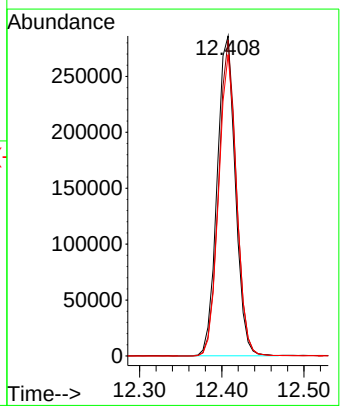


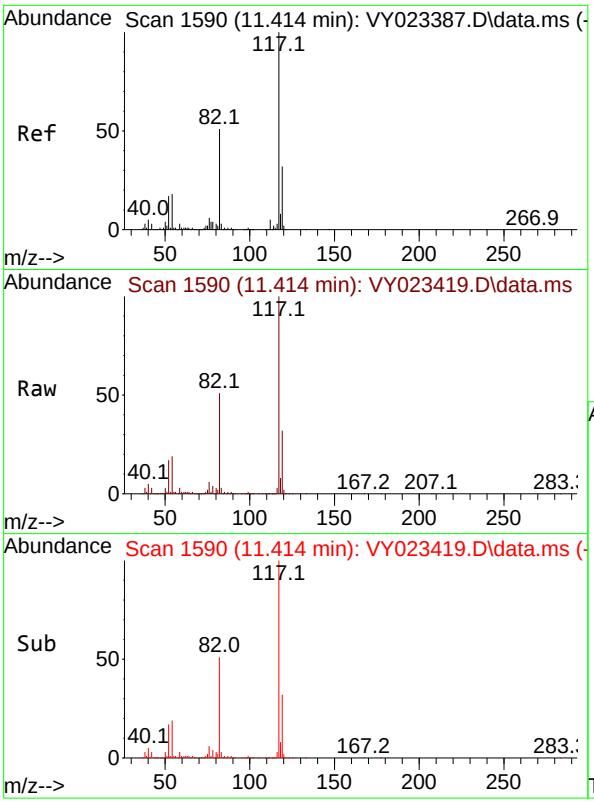




#62
4-Bromofluorobenzene
Concen: 50.840 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023419.D
Acq: 09 Oct 2025 13:44

Tgt Ion: 95 Resp: 439445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 96.8 | 0.0 | 192.8 |
| 176 | 93.0 | 0.0 | 187.6 |



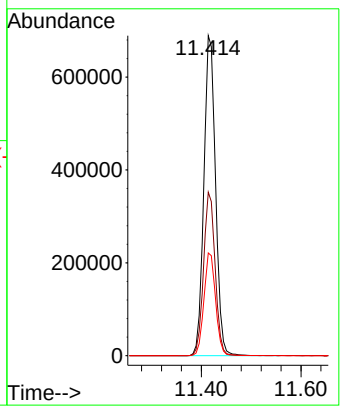


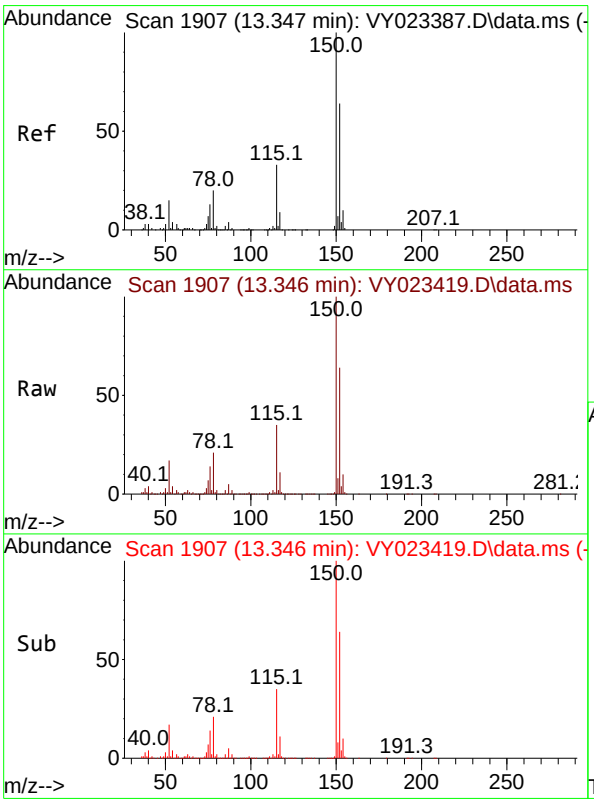

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023419.D
Acq: 09 Oct 2025 13:44

**Instrument :**
MSVOA_Y
**ClientSampleId :**
P001-DS-01

Tgt Ion:117 Resp: 1117620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 51.1 | 41.0 | 61.4 |
| 119 | 32.1 | 25.6 | 38.4 |

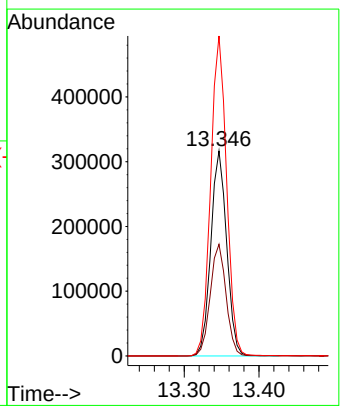



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023419.D
Acq: 09 Oct 2025 13:44

Tgt Ion:152 Resp: 466443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 54.6 | 27.1 | 81.2 |
| 150 | 156.8 | 0.0 | 347.4 |



Sample Results: **VY023419.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023419.D
Acq On : 09 Oct 2025 13:44
Operator : SY/MD
Sample : Q3321-01
Misc : 5.60g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
P001-DS-01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Title : SW846 8260

Signal : TIC: VY023419.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.616 | 466 | 475 | 486 | rBV2 | 16995 | 54910 | 1.58% | 0.298% |
| 2 | 6.890 | 833 | 848 | 865 | rBV | 38335 | 130270 | 3.74% | 0.706% |
| 3 | 7.640 | 960 | 971 | 977 | rBV | 521661 | 1272247 | 36.57% | 6.895% |
| 4 | 7.713 | 977 | 983 | 1003 | rVB | 697996 | 1597178 | 45.91% | 8.656% |
| 5 | 8.061 | 1027 | 1040 | 1051 | rBV | 387672 | 904409 | 26.00% | 4.901% |
| 6 | 8.616 | 1123 | 1131 | 1144 | rBV | 1261654 | 2472403 | 71.07% | 13.399% |
| 7 | 10.109 | 1367 | 1376 | 1384 | rBV | 2065069 | 3478952 | 100.00% | 18.854% |
| 8 | 10.512 | 1433 | 1442 | 1449 | rBV | 79729 | 151747 | 4.36% | 0.822% |
| 9 | 10.877 | 1494 | 1502 | 1508 | rBV | 44895 | 83530 | 2.40% | 0.453% |
| 10 | 11.414 | 1581 | 1590 | 1604 | rBV | 1966609 | 3201806 | 92.03% | 17.352% |
| 11 | 12.408 | 1745 | 1753 | 1765 | rBV | 1524510 | 2428693 | 69.81% | 13.162% |
| 12 | 13.164 | 1863 | 1877 | 1881 | rBV5 | 17255 | 51255 | 1.47% | 0.278% |
| 13 | 13.346 | 1900 | 1907 | 1914 | rBV | 1758172 | 2624549 | 75.44% | 14.224% |

Sum of corrected areas: 18451949

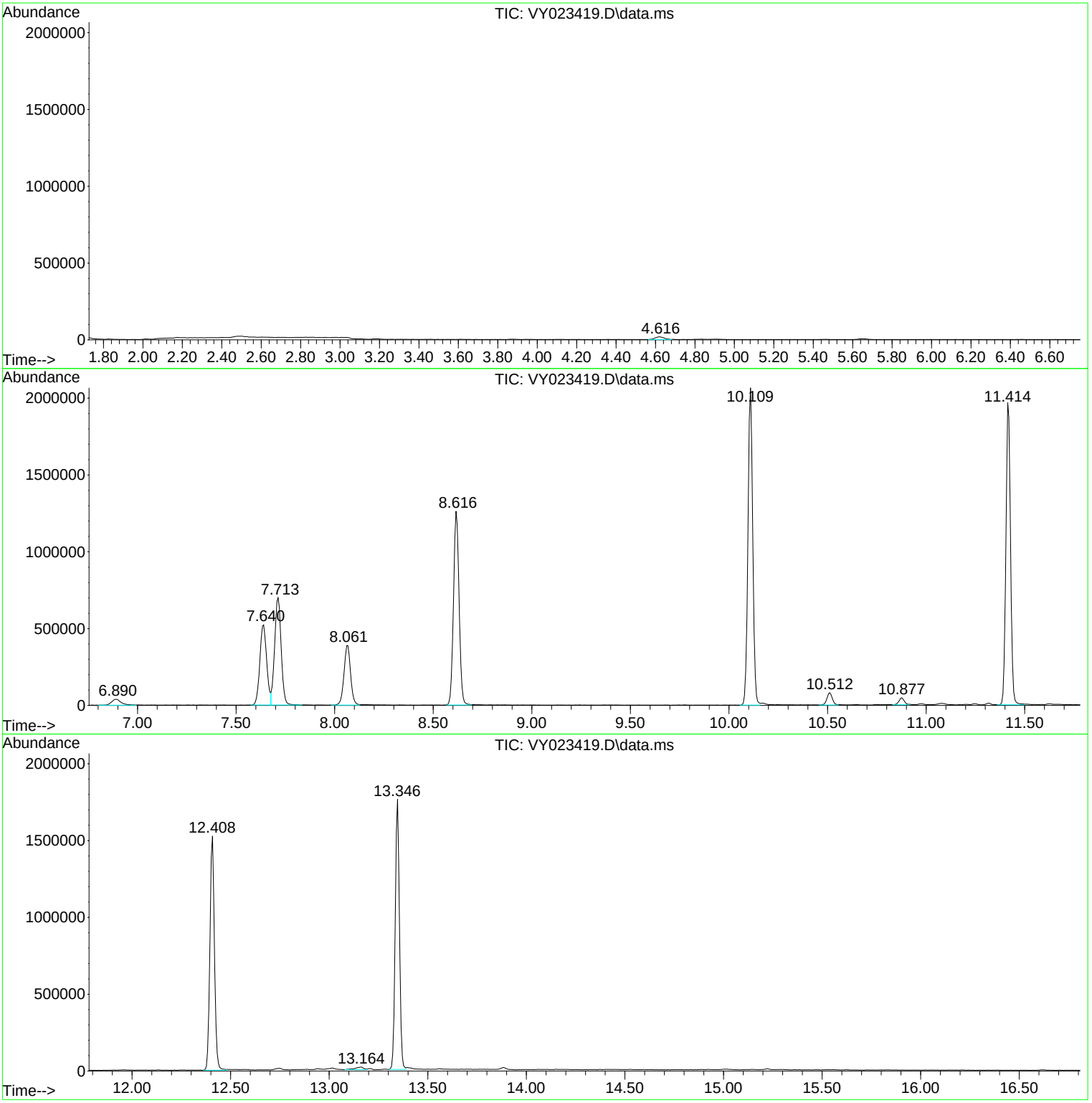
Sample Results: **VY023419.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023419.D
Acq On : 09 Oct 2025 13:44
Operator : SY/MD
Sample : Q3321-01
Misc : 5.60g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
P001-DS-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY023419.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023419.D
Acq On : 09 Oct 2025 13:44
Operator : SY/MD
Sample : Q3321-01
Misc : 5.60g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
P001-DS-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023419.D
Acq On : 09 Oct 2025 13:44
Operator : SY/MD
Sample : Q3321-01
Misc : 5.60g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
P001-DS-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

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

# CALIBRATION SUMMARY

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3321

Instrument ID: MSVOA_Y Calibration Date(s): 10/07/2025 10/07/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:17 12:32

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

LAB FILE ID: RRF005 = VY023384.D RRF010 = VY023385.D RRF020 = VY023386.D
RRF050 = VY023387.D RRF100 = VY023388.D RRF150 = VY023389.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.397 | 0.399 | 0.400 | 0.321 | 0.310 | 0.333 | 0.360 | 12 |
| Chloromethane | 0.518 | 0.557 | 0.512 | 0.449 | 0.438 | 0.467 | 0.490 | 9.4 |
| Vinyl Chloride | 0.660 | 0.684 | 0.659 | 0.598 | 0.597 | 0.633 | 0.639 | 5.6 |
| Bromomethane | 0.601 | 0.596 | 0.548 | 0.469 | 0.483 | 0.518 | 0.536 | 10.4 |
| Chloroethane | 0.441 | 0.462 | 0.453 | 0.414 | 0.413 | 0.429 | 0.435 | 4.7 |
| Trichlorofluoromethane | 0.884 | 0.920 | 0.946 | 0.842 | 0.850 | 0.877 | 0.887 | 4.5 |
| 1,1,2-Trichlorotrifluoroethane | 0.484 | 0.486 | 0.479 | 0.437 | 0.429 | 0.445 | 0.460 | 5.6 |
| 1,1-Dichloroethene | 0.449 | 0.475 | 0.456 | 0.427 | 0.426 | 0.443 | 0.446 | 4.1 |
| Acetone | 0.128 | 0.117 | 0.094 | 0.084 | 0.085 | 0.089 | 0.100 | 18.7 |
| Carbon Disulfide | 1.291 | 1.367 | 1.320 | 1.225 | 1.210 | 1.246 | 1.277 | 4.7 |
| Methyl tert-butyl Ether | 1.006 | 1.075 | 1.075 | 1.020 | 1.091 | 1.165 | 1.072 | 5.3 |
| Methyl Acetate | 0.244 | 0.265 | 0.260 | 0.245 | 0.266 | 0.286 | 0.261 | 6 |
| Methylene Chloride | 0.625 | 0.634 | 0.576 | 0.458 | 0.463 | 0.473 | 0.538 | 15.4 |
| trans-1,2-Dichloroethene | 0.494 | 0.504 | 0.507 | 0.470 | 0.478 | 0.494 | 0.491 | 2.9 |
| 1,1-Dichloroethane | 0.800 | 0.835 | 0.827 | 0.759 | 0.765 | 0.792 | 0.796 | 3.9 |
| Cyclohexane | 0.797 | 0.717 | 0.697 | 0.643 | 0.644 | 0.676 | 0.696 | 8.3 |
| 2-Butanone | 0.133 | 0.134 | 0.115 | 0.105 | 0.115 | 0.126 | 0.122 | 9.6 |
| Carbon Tetrachloride | 0.483 | 0.501 | 0.504 | 0.481 | 0.487 | 0.503 | 0.493 | 2.1 |
| cis-1,2-Dichloroethene | 0.542 | 0.584 | 0.582 | 0.542 | 0.563 | 0.591 | 0.567 | 3.8 |
| Bromochloromethane | 0.332 | 0.323 | 0.320 | 0.267 | 0.270 | 0.273 | 0.297 | 10.2 |
| Chloroform | 0.886 | 0.912 | 0.901 | 0.835 | 0.842 | 0.874 | 0.875 | 3.5 |
| 1,1,1-Trichloroethane | 0.808 | 0.814 | 0.822 | 0.767 | 0.764 | 0.796 | 0.795 | 3.1 |
| Methylcyclohexane | 0.491 | 0.486 | 0.537 | 0.527 | 0.554 | 0.583 | 0.530 | 7 |
| Benzene | 1.253 | 1.302 | 1.322 | 1.259 | 1.281 | 1.312 | 1.288 | 2.2 |
| 1,2-Dichloroethane | 0.328 | 0.346 | 0.343 | 0.315 | 0.324 | 0.338 | 0.332 | 3.6 |
| Trichloroethene | 0.380 | 0.381 | 0.386 | 0.367 | 0.372 | 0.376 | 0.377 | 1.8 |
| 1,2-Dichloropropane | 0.276 | 0.289 | 0.292 | 0.274 | 0.283 | 0.293 | 0.285 | 2.9 |
| Bromodichloromethane | 0.440 | 0.463 | 0.459 | 0.439 | 0.449 | 0.468 | 0.453 | 2.7 |
| 4-Methyl-2-Pentanone | 0.141 | 0.159 | 0.161 | 0.159 | 0.180 | 0.196 | 0.166 | 11.6 |
| Toluene | 0.777 | 0.818 | 0.855 | 0.827 | 0.855 | 0.885 | 0.836 | 4.5 |

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

Raw Data

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3321

Instrument ID: MSVOA_Y Calibration Date(s): 10/07/2025 10/07/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:17 12:32

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

LAB FILE ID: RRF005 = VY023384.D RRF010 = VY023385.D RRF020 = VY023386.D
RRF050 = VY023387.D RRF100 = VY023388.D RRF150 = VY023389.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.357 | 0.380 | 0.390 | 0.385 | 0.415 | 0.438 | 0.394 | 7.2 |
| cis-1,3-Dichloropropene | 0.424 | 0.460 | 0.465 | 0.455 | 0.481 | 0.505 | 0.465 | 5.9 |
| 1,1,2-Trichloroethane | 0.234 | 0.247 | 0.241 | 0.231 | 0.244 | 0.254 | 0.242 | 3.5 |
| 2-Hexanone | 0.108 | 0.117 | 0.110 | 0.112 | 0.126 | 0.138 | 0.119 | 9.9 |
| Dibromochloromethane | 0.319 | 0.337 | 0.340 | 0.327 | 0.347 | 0.365 | 0.339 | 4.7 |
| 1,2-Dibromoethane | 0.215 | 0.229 | 0.231 | 0.223 | 0.237 | 0.249 | 0.231 | 5.2 |
| Tetrachloroethene | 0.538 | 0.517 | 0.561 | 0.523 | 0.502 | 0.456 | 0.516 | 6.9 |
| Chlorobenzene | 1.086 | 1.095 | 1.092 | 1.053 | 1.083 | 1.116 | 1.087 | 1.9 |
| Ethyl Benzene | 1.606 | 1.711 | 1.753 | 1.777 | 1.824 | 1.891 | 1.760 | 5.5 |
| m/p-Xylenes | 0.632 | 0.675 | 0.715 | 0.719 | 0.734 | 0.763 | 0.706 | 6.5 |
| o-Xylene | 0.588 | 0.623 | 0.653 | 0.670 | 0.701 | 0.738 | 0.662 | 8.1 |
| Styrene | 0.902 | 1.026 | 1.098 | 1.109 | 1.166 | 1.233 | 1.089 | 10.5 |
| Bromoform | 0.225 | 0.242 | 0.238 | 0.230 | 0.244 | 0.262 | 0.240 | 5.4 |
| Isopropylbenzene | 2.967 | 3.153 | 3.353 | 3.317 | 3.425 | 3.555 | 3.295 | 6.3 |
| 1,1,2,2-Tetrachloroethane | 0.530 | 0.548 | 0.502 | 0.499 | 0.543 | 0.611 | 0.539 | 7.6 |
| 1,3-Dichlorobenzene | 1.667 | 1.698 | 1.718 | 1.657 | 1.701 | 1.794 | 1.706 | 2.9 |
| 1,4-Dichlorobenzene | 1.703 | 1.703 | 1.694 | 1.624 | 1.653 | 1.732 | 1.685 | 2.3 |
| 1,2-Dichlorobenzene | 1.485 | 1.498 | 1.511 | 1.446 | 1.490 | 1.543 | 1.496 | 2.1 |
| 1,2-Dibromo-3-Chloropropane | 0.087 | 0.093 | 0.083 | 0.083 | 0.088 | 0.096 | 0.088 | 6.2 |
| 1,2,4-Trichlorobenzene | 0.846 | 0.867 | 0.901 | 0.918 | 1.007 | 1.054 | 0.932 | 8.7 |
| 1,2,3-Trichlorobenzene | 0.719 | 0.753 | 0.795 | 0.793 | 0.866 | 0.920 | 0.808 | 9.1 |
| 1,2-Dichloroethane-d4 | 0.455 | 0.436 | 0.429 | 0.392 | 0.392 | 0.405 | 0.418 | 6.2 |
| Dibromofluoromethane | 0.311 | 0.314 | 0.317 | 0.298 | 0.299 | 0.303 | 0.307 | 2.6 |
| Toluene-d8 | 1.132 | 1.170 | 1.177 | 1.129 | 1.122 | 1.135 | 1.144 | 2 |
| 4-Bromofluorobenzene | 0.401 | 0.370 | 0.373 | 0.365 | 0.372 | 0.386 | 0.378 | 3.5 |

* 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 : 82Y100725S.M
Title : SW846 8260
Last Update : Wed Oct 08 05:12:50 2025
Response Via : Initial Calibration

Calibration Files
5 =VY023384.D 10 =VY023385.D 20 =VY023386.D 50 =VY023387.D 100 =VY023388.D 150 =VY023389.D

| | | Compound | 5 | 10 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.397 | 0.399 | 0.400 | 0.321 | 0.310 | 0.333 | 0.360 | 11.97 |
| 3) | P | Chloromethane | 0.518 | 0.557 | 0.512 | 0.449 | 0.438 | 0.467 | 0.490 | 9.45 |
| 4) | C | Vinyl Chloride | 0.660 | 0.684 | 0.659 | 0.598 | 0.597 | 0.633 | 0.639 | 5.59# |
| 5) | T | Bromomethane | 0.601 | 0.596 | 0.548 | 0.469 | 0.483 | 0.518 | 0.536 | 10.42 |
| 6) | T | Chloroethane | 0.441 | 0.462 | 0.453 | 0.414 | 0.413 | 0.429 | 0.435 | 4.67 |
| 7) | T | Trichlorofluor... | 0.884 | 0.920 | 0.946 | 0.842 | 0.850 | 0.877 | 0.887 | 4.54 |
| 8) | T | Diethyl Ether | 0.240 | 0.239 | 0.236 | 0.215 | 0.224 | 0.237 | 0.232 | 4.42 |
| 9) | T | 1,1,2-Trichlor... | 0.484 | 0.486 | 0.479 | 0.437 | 0.429 | 0.445 | 0.460 | 5.57 |
| 10) | T | Methyl Iodide | 0.404 | 0.503 | 0.518 | 0.538 | 0.547 | 0.562 | 0.512 | 11.09 |
| 11) | T | Tert butyl alc... | 0.033 | 0.037 | 0.030 | 0.025 | 0.029 | 0.033 | 0.031 | 13.08 |
| 12) | CM | 1,1-Dichloroet... | 0.449 | 0.475 | 0.456 | 0.427 | 0.426 | 0.443 | 0.446 | 4.14# |
| 13) | T | Acrolein | 0.045 | 0.043 | 0.042 | 0.042 | 0.044 | 0.048 | 0.044 | 5.27 |
| 14) | T | Allyl chloride | 0.540 | 0.555 | 0.546 | 0.526 | 0.535 | 0.560 | 0.544 | 2.33 |
| 15) | T | Acrylonitrile | 0.088 | 0.093 | 0.086 | 0.082 | 0.088 | 0.095 | 0.089 | 5.52 |
| 16) | T | Acetone | 0.128 | 0.117 | 0.094 | 0.084 | 0.085 | 0.089 | 0.100 | 18.67 |
| 17) | T | Carbon Disulfide | 1.291 | 1.367 | 1.320 | 1.225 | 1.210 | 1.246 | 1.277 | 4.74 |
| 18) | T | Methyl Acetate | 0.244 | 0.265 | 0.260 | 0.245 | 0.266 | 0.286 | 0.261 | 6.00 |
| 19) | T | Methyl tert-bu... | 1.006 | 1.075 | 1.075 | 1.020 | 1.091 | 1.165 | 1.072 | 5.30 |
| 20) | T | Methylene Chlo... | 0.625 | 0.634 | 0.576 | 0.458 | 0.463 | 0.473 | 0.538 | 15.41 |
| 21) | T | trans-1,2-Dich... | 0.494 | 0.504 | 0.507 | 0.470 | 0.478 | 0.494 | 0.491 | 2.95 |
| 22) | T | Diisopropyl ether | 1.107 | 1.238 | 1.255 | 1.163 | 1.195 | 1.257 | 1.202 | 4.95 |
| 23) | T | Vinyl Acetate | 0.594 | 0.646 | 0.651 | 0.625 | 0.667 | 0.722 | 0.651 | 6.65 |
| 24) | P | 1,1-Dichloroet... | 0.800 | 0.835 | 0.827 | 0.759 | 0.765 | 0.792 | 0.796 | 3.90 |
| 25) | T | 2-Butanone | 0.133 | 0.134 | 0.115 | 0.105 | 0.115 | 0.126 | 0.122 | 9.56 |
| 26) | T | 2,2-Dichloropr... | 0.752 | 0.771 | 0.731 | 0.705 | 0.699 | 0.726 | 0.731 | 3.74 |
| 27) | T | cis-1,2-Dichlo... | 0.542 | 0.584 | 0.582 | 0.542 | 0.563 | 0.591 | 0.567 | 3.81 |
| 28) | T | Bromochloromet... | 0.332 | 0.323 | 0.320 | 0.267 | 0.270 | 0.273 | 0.297 | 10.22 |
| 29) | T | Tetrahydrofuran | 0.066 | 0.070 | 0.067 | 0.064 | 0.070 | 0.078 | 0.069 | 7.25 |
| 30) | C | Chloroform | 0.886 | 0.912 | 0.901 | 0.835 | 0.842 | 0.874 | 0.875 | 3.54# |
| 31) | T | Cyclohexane | 0.797 | 0.717 | 0.697 | 0.643 | 0.644 | 0.676 | 0.696 | 8.27 |
| 32) | T | 1,1,1-Trichlor... | 0.808 | 0.814 | 0.822 | 0.767 | 0.764 | 0.796 | 0.795 | 3.08 |
| 33) | S | 1,2-Dichloroet... | 0.455 | 0.436 | 0.429 | 0.392 | 0.392 | 0.405 | 0.418 | 6.21 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | 0.311 | 0.314 | 0.317 | 0.298 | 0.299 | 0.303 | 0.307 | 2.62 |
| 36) | T | 1,1-Dichloropr... | 0.395 | 0.413 | 0.413 | 0.397 | 0.405 | 0.417 | 0.407 | 2.20 |
| 37) | T | Ethyl Acetate | 0.148 | 0.162 | 0.163 | 0.150 | 0.164 | 0.179 | 0.161 | 6.94 |
| 38) | T | Carbon Tetrach... | 0.483 | 0.501 | 0.504 | 0.481 | 0.487 | 0.503 | 0.493 | 2.14 |
| 39) | T | Methylcyclohexane | 0.491 | 0.486 | 0.537 | 0.527 | 0.554 | 0.583 | 0.530 | 7.03 |
| 40) | TM | Benzene | 1.253 | 1.302 | 1.322 | 1.259 | 1.281 | 1.312 | 1.288 | 2.22 |
| 41) | T | Methacrylonitrile | 0.082 | 0.085 | 0.091 | 0.080 | 0.089 | 0.096 | 0.087 | 7.09 |
| 42) | TM | 1,2-Dichloroet... | 0.328 | 0.346 | 0.343 | 0.315 | 0.324 | 0.338 | 0.332 | 3.59 |
| 43) | T | Isopropyl Acetate | 0.297 | 0.313 | 0.313 | 0.302 | 0.335 | 0.369 | 0.321 | 8.32 |
| 44) | TM | Trichloroethene | 0.380 | 0.381 | 0.386 | 0.367 | 0.372 | 0.376 | 0.377 | 1.81 |
| 45) | C | 1,2-Dichloropr... | 0.276 | 0.289 | 0.292 | 0.274 | 0.283 | 0.293 | 0.285 | 2.89# |
| 46) | T | Dibromomethane | 0.172 | 0.182 | 0.183 | 0.173 | 0.181 | 0.188 | 0.180 | 3.43 |
| 47) | T | Bromodichlorom... | 0.440 | 0.463 | 0.459 | 0.439 | 0.449 | 0.468 | 0.453 | 2.70 |
| 48) | T | Methyl methacr... | 0.125 | 0.139 | 0.149 | 0.148 | 0.165 | 0.181 | 0.151 | 12.98 |
| 49) | T | 1,4-Dioxane | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 10.06 |
| 50) | S | Toluene-d8 | 1.132 | 1.170 | 1.177 | 1.129 | 1.122 | 1.135 | 1.144 | 2.03 |
| 51) | T | 4-Methyl-2-Pen... | 0.141 | 0.159 | 0.161 | 0.159 | 0.180 | 0.196 | 0.166 | 11.55 |
| 52) | CM | Toluene | 0.777 | 0.818 | 0.855 | 0.827 | 0.855 | 0.885 | 0.836 | 4.49# |
| 53) | T | t-1,3-Dichloro... | 0.357 | 0.380 | 0.390 | 0.385 | 0.415 | 0.438 | 0.394 | 7.24 |
| 54) | T | cis-1,3-Dichlo... | 0.424 | 0.460 | 0.465 | 0.455 | 0.481 | 0.505 | 0.465 | 5.86 |
| 55) | T | 1,1,2-Trichlor... | 0.234 | 0.247 | 0.241 | 0.231 | 0.244 | 0.254 | 0.242 | 3.52 |
| 56) | T | Ethyl methacry... | 0.219 | 0.248 | 0.262 | 0.279 | 0.321 | 0.345 | 0.279 | 16.80 |

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y100725S.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.361 | 0.381 | 0.383 | 0.374 | 0.392 | 0.409 | 0.383 | 4.26 |
| 58) | T | 2-Chloroethyl ... | 0.093 | 0.112 | 0.112 | 0.129 | 0.145 | 0.159 | 0.125 | 19.35 |
| 59) | T | 2-Hexanone | 0.108 | 0.117 | 0.110 | 0.112 | 0.126 | 0.138 | 0.119 | 9.86 |
| 60) | T | Dibromochlorom... | 0.319 | 0.337 | 0.340 | 0.327 | 0.347 | 0.365 | 0.339 | 4.69 |
| 61) | T | 1,2-Dibromoethane | 0.215 | 0.229 | 0.231 | 0.223 | 0.237 | 0.249 | 0.231 | 5.16 |
| 62) | S | 4-Bromofluorob... | 0.401 | 0.370 | 0.373 | 0.365 | 0.372 | 0.386 | 0.378 | 3.51 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.538 | 0.517 | 0.561 | 0.523 | 0.502 | 0.456 | 0.516 | 6.92 |
| 65) | PM | Chlorobenzene | 1.086 | 1.095 | 1.092 | 1.053 | 1.083 | 1.116 | 1.087 | 1.89 |
| 66) | T | 1,1,1,2-Tetrac... | 0.388 | 0.389 | 0.390 | 0.373 | 0.384 | 0.402 | 0.388 | 2.44 |
| 67) | C | Ethyl Benzene | 1.606 | 1.711 | 1.753 | 1.777 | 1.824 | 1.891 | 1.760 | 5.54# |
| 68) | T | m/p-Xylenes | 0.632 | 0.675 | 0.715 | 0.719 | 0.734 | 0.763 | 0.706 | 6.54 |
| 69) | T | o-Xylene | 0.588 | 0.623 | 0.653 | 0.670 | 0.701 | 0.738 | 0.662 | 8.15 |
| 70) | T | Styrene | 0.902 | 1.026 | 1.098 | 1.109 | 1.166 | 1.233 | 1.089 | 10.55 |
| 71) | P | Bromoform | 0.225 | 0.242 | 0.238 | 0.230 | 0.244 | 0.262 | 0.240 | 5.41 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 2.967 | 3.153 | 3.353 | 3.317 | 3.425 | 3.555 | 3.295 | 6.30 |
| 74) | T | N-amyl acetate | 0.477 | 0.535 | 0.556 | 0.581 | 0.665 | 0.738 | 0.592 | 15.95 |
| 75) | P | 1,1,2,2-Tetrac... | 0.530 | 0.548 | 0.502 | 0.499 | 0.543 | 0.611 | 0.539 | 7.60 |
| 76) | T | 1,2,3-Trichlor... | 0.406 | 0.399 | 0.484 | 0.433 | 0.455 | 0.469 | 0.441 | 7.76 |
| 77) | T | Bromobenzene | 0.849 | 0.880 | 0.885 | 0.845 | 0.877 | 0.921 | 0.876 | 3.14 |
| 78) | T | n-propylbenzene | 3.373 | 3.676 | 3.906 | 3.883 | 3.955 | 4.086 | 3.813 | 6.64 |
| 79) | T | 2-Chlorotoluene | 2.095 | 2.208 | 2.282 | 2.227 | 2.249 | 2.338 | 2.233 | 3.66 |
| 80) | T | 1,3,5-Trimethy... | 2.309 | 2.557 | 2.736 | 2.706 | 2.772 | 2.896 | 2.663 | 7.70 |
| 81) | T | trans-1,4-Dich... | 0.171 | 0.175 | 0.176 | 0.169 | 0.185 | 0.203 | 0.180 | 7.04 |
| 82) | T | 4-Chlorotoluene | 2.173 | 2.266 | 2.362 | 2.276 | 2.316 | 2.404 | 2.300 | 3.52 |
| 83) | T | tert-Butylbenzene | 2.199 | 2.363 | 2.465 | 2.522 | 2.533 | 2.668 | 2.458 | 6.55 |
| 84) | T | 1,2,4-Trimethy... | 2.301 | 2.552 | 2.701 | 2.706 | 2.782 | 2.903 | 2.657 | 7.86 |
| 85) | T | sec-Butylbenzene | 3.175 | 3.388 | 3.571 | 3.583 | 3.664 | 3.778 | 3.527 | 6.08 |
| 86) | T | p-Isopropyltol... | 2.575 | 2.804 | 3.032 | 3.087 | 3.183 | 3.334 | 3.003 | 9.09 |
| 87) | T | 1,3-Dichlorobe... | 1.667 | 1.698 | 1.718 | 1.657 | 1.701 | 1.794 | 1.706 | 2.85 |
| 88) | T | 1,4-Dichlorobe... | 1.703 | 1.703 | 1.694 | 1.624 | 1.653 | 1.732 | 1.685 | 2.33 |
| 89) | T | n-Butylbenzene | 2.279 | 2.428 | 2.626 | 2.682 | 2.778 | 2.904 | 2.616 | 8.76 |
| 90) | T | Hexachloroethane | 0.667 | 0.631 | 0.647 | 0.625 | 0.643 | 0.662 | 0.646 | 2.54 |
| 91) | T | 1,2-Dichlorobe... | 1.485 | 1.498 | 1.511 | 1.446 | 1.490 | 1.543 | 1.496 | 2.13 |
| 92) | T | 1,2-Dibromo-3-... | 0.087 | 0.093 | 0.083 | 0.083 | 0.088 | 0.096 | 0.088 | 6.18 |
| 93) | T | 1,2,4-Trichlor... | 0.846 | 0.867 | 0.901 | 0.918 | 1.007 | 1.054 | 0.932 | 8.75 |
| 94) | T | Hexachlorobuta... | 0.590 | 0.571 | 0.572 | 0.577 | 0.587 | 0.590 | 0.581 | 1.52 |
| 95) | T | Naphthalene | 1.206 | 1.281 | 1.346 | 1.466 | 1.722 | 1.887 | 1.485 | 17.98 |
| 96) | T | 1,2,3-Trichlor... | 0.719 | 0.753 | 0.795 | 0.793 | 0.866 | 0.920 | 0.808 | 9.14 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023384.D
Acq On : 07 Oct 2025 09:17
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 :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:39:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 585717 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 882488 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 753398 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 378104 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 26670 | 5.258 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 10.520%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 27455 | 5.126 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 10.260%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 99905 | 4.946 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 9.900%# | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 35355 | 5.548 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 11.100%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 23245 | 5.038 | ug/l | 92 |
| 3) Chloromethane | 2.074 | 50 | 30346 | 4.627 | ug/l | 94 |
| 4) Vinyl Chloride | 2.202 | 62 | 38657 | 4.668 | ug/l | 95 |
| 5) Bromomethane | 2.598 | 94 | 35214 | 5.184 | ug/l | 94 |
| 6) Chloroethane | 2.732 | 64 | 25848 | 4.597 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.055 | 101 | 51797 | 4.869 | ug/l | 98 |
| 8) Diethyl Ether | 3.452 | 74 | 14079 | 5.060 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 28368 | 4.989 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 23692 | 3.606 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.854 | 59 | 9774 | 32.746 | ug/l # | 80 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 26290 | 4.806 | ug/l | 94 |
| 13) Acrolein | 3.653 | 56 | 13176 | 26.054 | ug/l | 100 |
| 14) Allyl chloride | 4.385 | 41 | 31614 | 4.616 | ug/l | 98 |
| 15) Acrylonitrile | 5.055 | 53 | 25891 | 23.754 | ug/l | 99 |
| 16) Acetone | 3.866 | 43 | 37573 | 32.940 | ug/l | 96 |
| 17) Carbon Disulfide | 4.104 | 76 | 75645 | 4.432 | ug/l | 99 |
| 18) Methyl Acetate | 4.391 | 43 | 14279 | 4.926 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 58919 | 4.600 | ug/l | 95 |
| 20) Methylene Chloride | 4.616 | 84 | 36598 | 5.917 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 28923 | 4.754 | ug/l | 99 |
| 22) Diisopropyl ether | 6.018 | 45 | 64833 | 4.269 | ug/l | 94 |
| 23) Vinyl Acetate | 5.964 | 43 | 173851 | 20.824 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 46850 | 4.679 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 38990 | 27.656 | ug/l | 93 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 44062 | 4.953 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 31743 | 4.600 | ug/l | 98 |
| 28) Bromochloromethane | 7.244 | 49 | 19445 | 5.006 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 19296 | 23.059 | ug/l | 98 |
| 30) Chloroform | 7.421 | 83 | 51887 | 4.806 | ug/l | 97 |
| 31) Cyclohexane | 7.707 | 56 | 46675 | 5.279 | ug/l # | 79 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 47305 | 4.881 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 34888 | 4.617 | ug/l | 98 |
| 37) Ethyl Acetate | 6.982 | 43 | 13082 | 4.379 | ug/l # | 93 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 42654 | 4.859 | ug/l | 95 |
| 39) Methylcyclohexane | 9.109 | 83 | 43329 | 4.479 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 110551 | 4.693 | ug/l | 100 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023384.D
Acq On : 07 Oct 2025 09:17
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 04:39:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.225 | 41 | 7226m | 4.658 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 28940 | 4.828 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.201 | 43 | 26166 | 4.503 | ug/l | | 99 |
| 44) Trichloroethene | 8.859 | 130 | 33564 | 5.077 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 24358 | 4.595 | ug/l | | 92 |
| 46) Dibromomethane | 9.231 | 93 | 15179 | 4.682 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.420 | 83 | 38813 | 4.756 | ug/l | | 93 |
| 48) Methyl methacrylate | 9.219 | 41 | 11038 | 4.071 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.219 | 88 | 3255 | 96.953 | ug/l | # | 86 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 62279 | 20.925 | ug/l | | 98 |
| 52) Toluene | 10.170 | 92 | 68550 | 4.585 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 31477 | 4.491 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 37392 | 4.463 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 20641 | 4.786 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 19324 | 3.891 | ug/l | | 94 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 31831 | 4.560 | ug/l | | 96 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 41054m | 18.894 | ug/l | | |
| 59) 2-Hexanone | 10.761 | 43 | 47778 | 23.185 | ug/l | | 97 |
| 60) Dibromochloromethane | 10.908 | 129 | 28135 | 4.783 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.017 | 107 | 18957 | 4.673 | ug/l | | 97 |
| 64) Tetrachloroethene | 10.646 | 164 | 40570 | 5.383 | ug/l | | 98 |
| 65) Chlorobenzene | 11.444 | 112 | 81802 | 4.997 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 29222 | 5.075 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.517 | 91 | 121005 | 4.529 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 95176 | 8.887 | ug/l | | 100 |
| 69) o-Xylene | 11.956 | 106 | 44280 | 4.466 | ug/l | | 98 |
| 70) Styrene | 11.969 | 104 | 67960 | 4.152 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 16988 | 4.929 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 112194 | 4.455 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 18041 | 3.833 | ug/l | # | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 20052 | 4.773 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 15359m | 4.118 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 32106 | 4.967 | ug/l | | 99 |
| 78) n-propylbenzene | 12.596 | 91 | 127521 | 4.305 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 79199 | 4.631 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 87297 | 4.264 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 6474 | 4.680 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 82155 | 4.600 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 83151 | 4.457 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 86988 | 4.294 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 120061 | 4.443 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 97377 | 4.264 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 63027 | 4.936 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 64389 | 5.085 | ug/l | | 95 |
| 89) n-Butylbenzene | 13.615 | 91 | 86179 | 4.274 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 25204 | 5.084 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 56167 | 5.041 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 3305 | 4.964 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 32000 | 4.875 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 22316 | 5.456 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 45598 | 4.360 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 27176 | 4.772 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023384.D
Acq On : 07 Oct 2025 09:17
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 :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:39:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

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

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

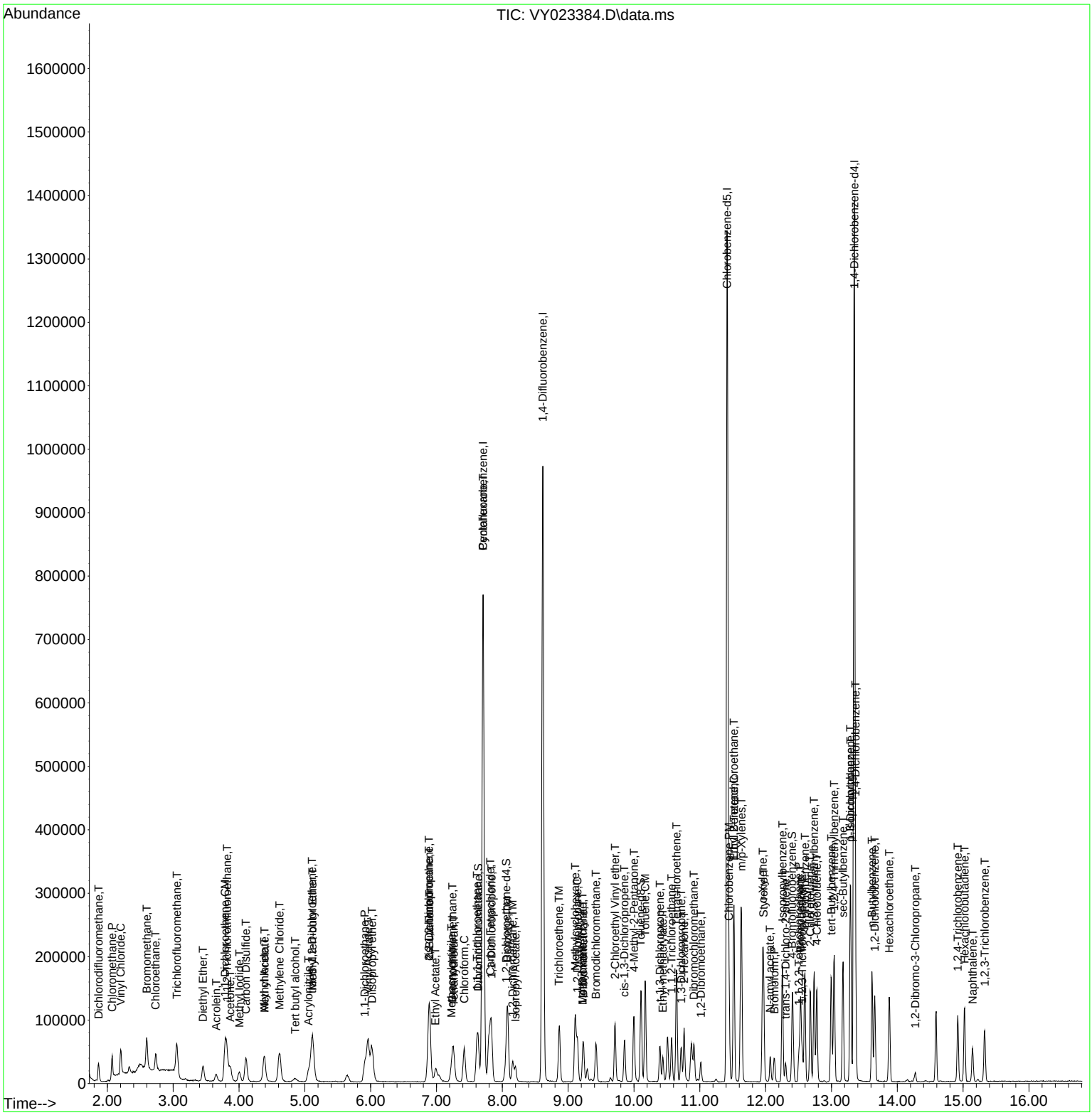
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023384.D
Acq On : 07 Oct 2025 09:17
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

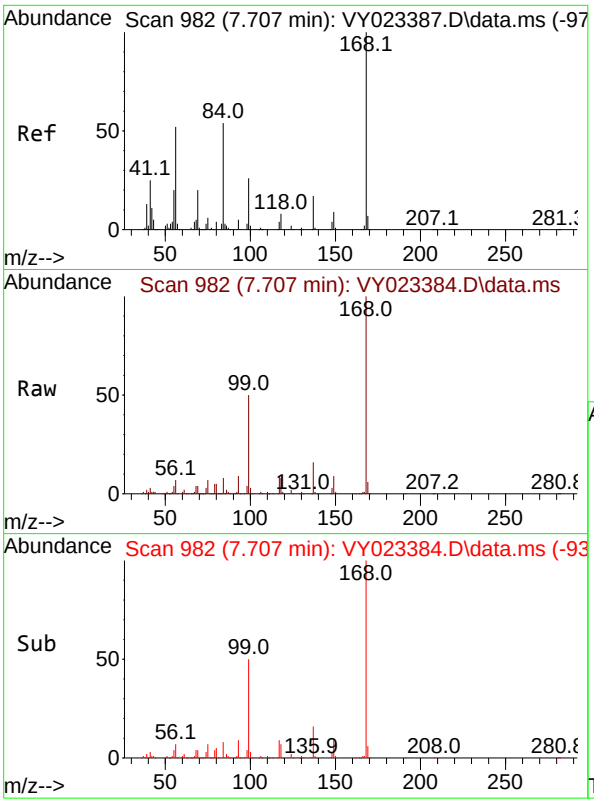
Quant Time: Oct 08 04:39:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

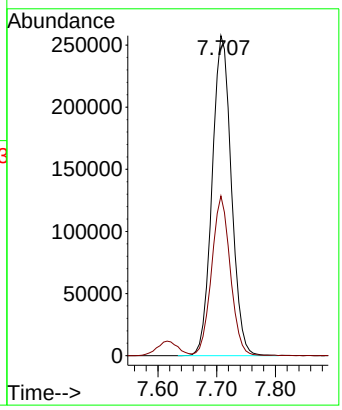
Tgt Ion:168 Resp: 58571

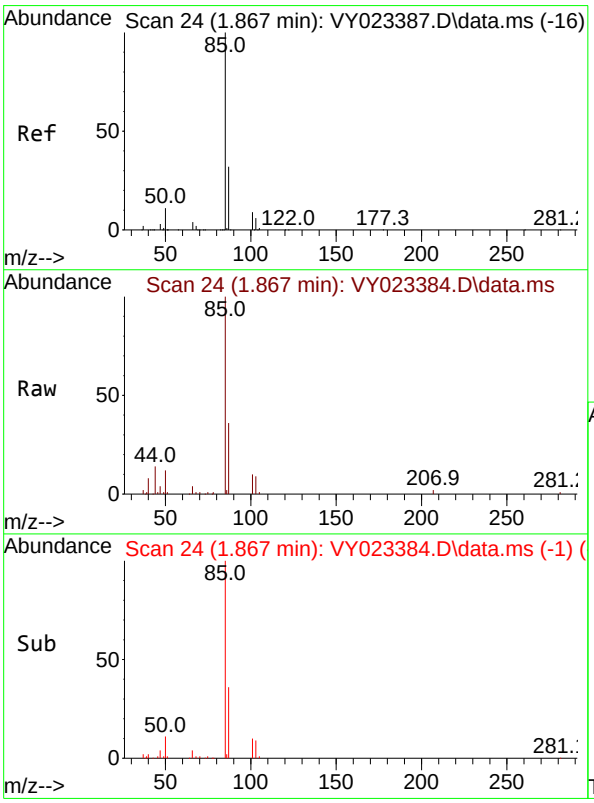
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 49.8 | 39.7 | 59.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

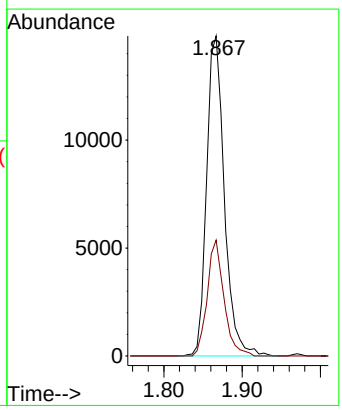


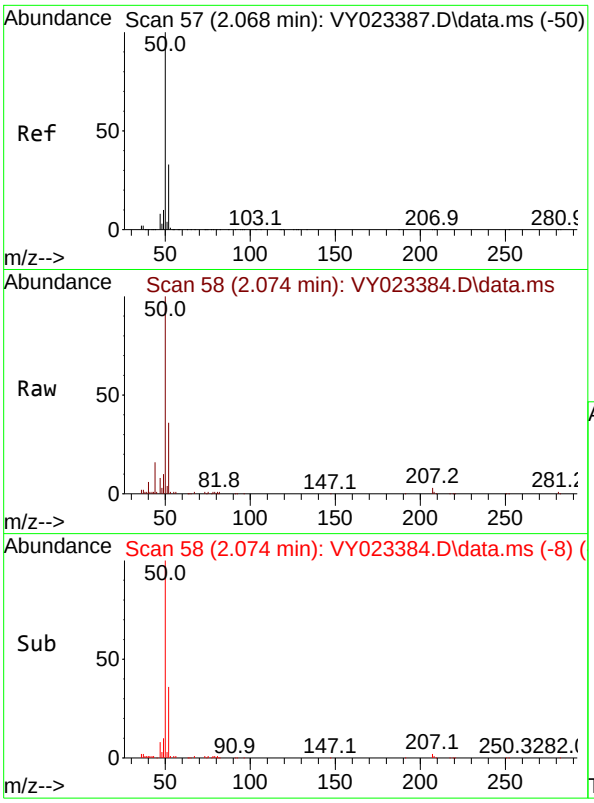




#2
Dichlorodifluoromethane
Concen: 5.038 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 85 Resp: 23245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 36.2 | 16.0 | 47.9 |

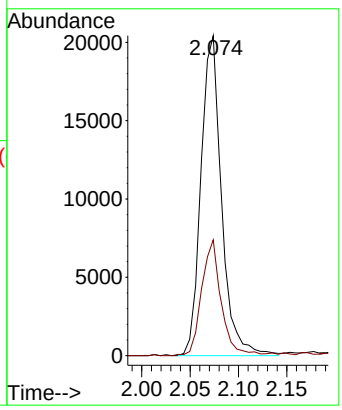





#3
Chloromethane
Concen: 4.627 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 50 Resp: 3034

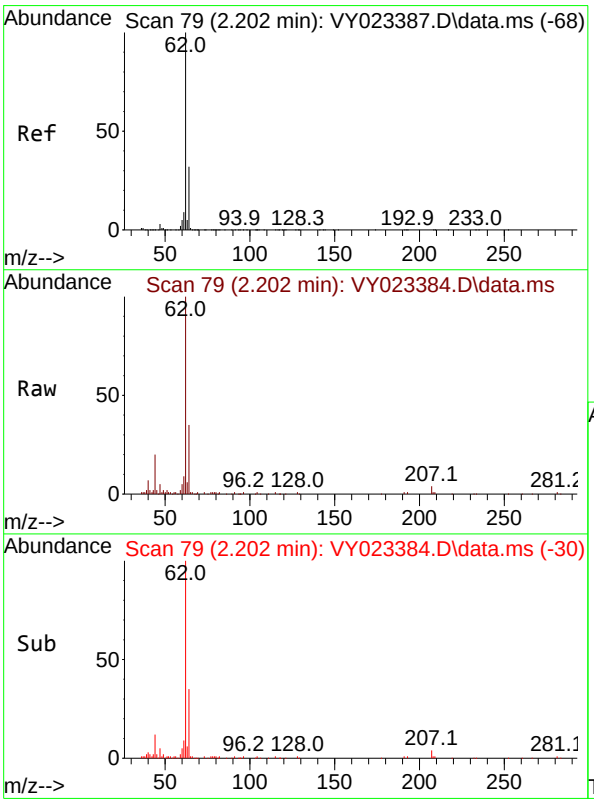
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 35.8 | 26.2 | 39.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

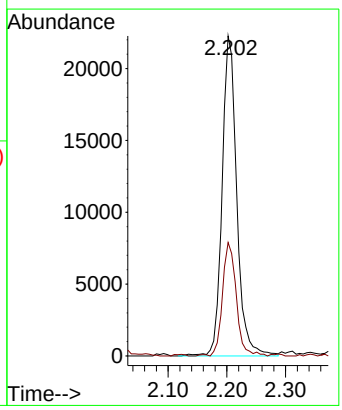
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

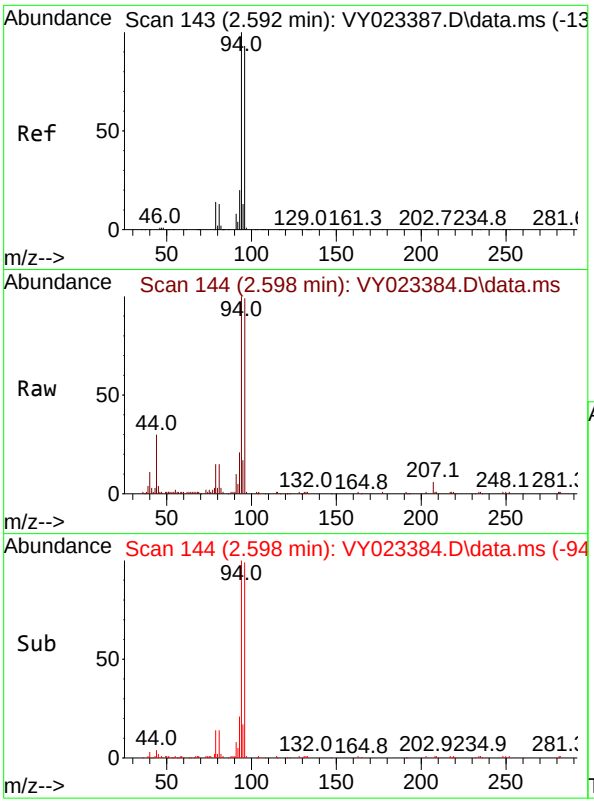



#4
Vinyl Chloride
Concen: 4.668 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 62 Resp: 38657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 35.0 | 25.8 | 38.8 |






#5
Bromomethane
Concen: 5.184 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 94 Resp: 3521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 99.0 | 74.5 | 111.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

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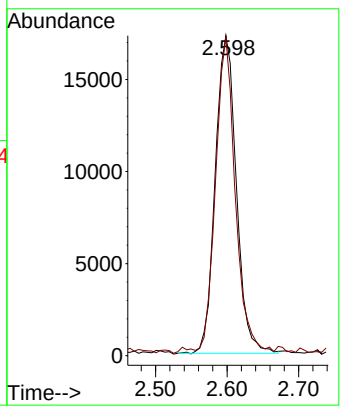
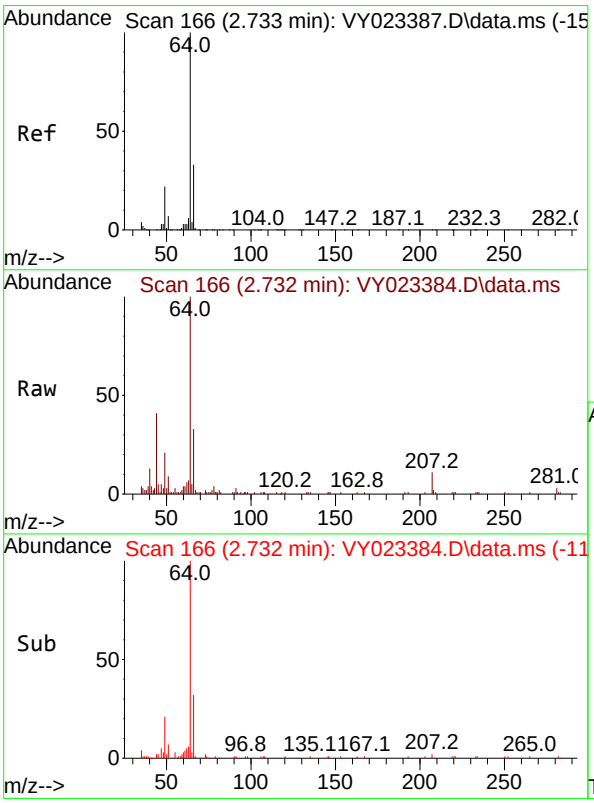
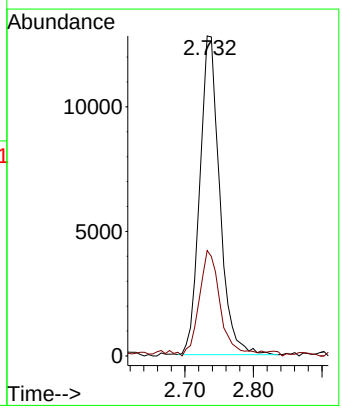


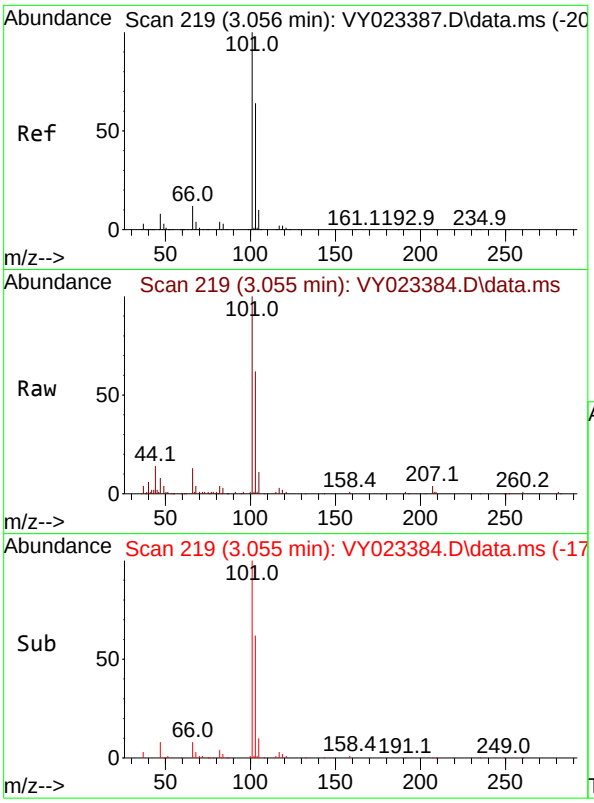




#6
Chloroethane
Concen: 4.597 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 64 Resp: 25848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.9 | 26.2 | 39.4 |






#7
Trichlorofluoromethane
Concen: 4.869 ug/l
RT: 3.055 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:101 Resp: 5179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.4 | 51.3 | 76.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

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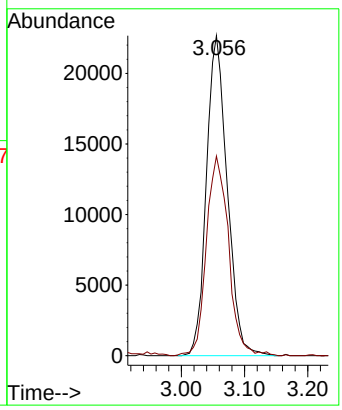
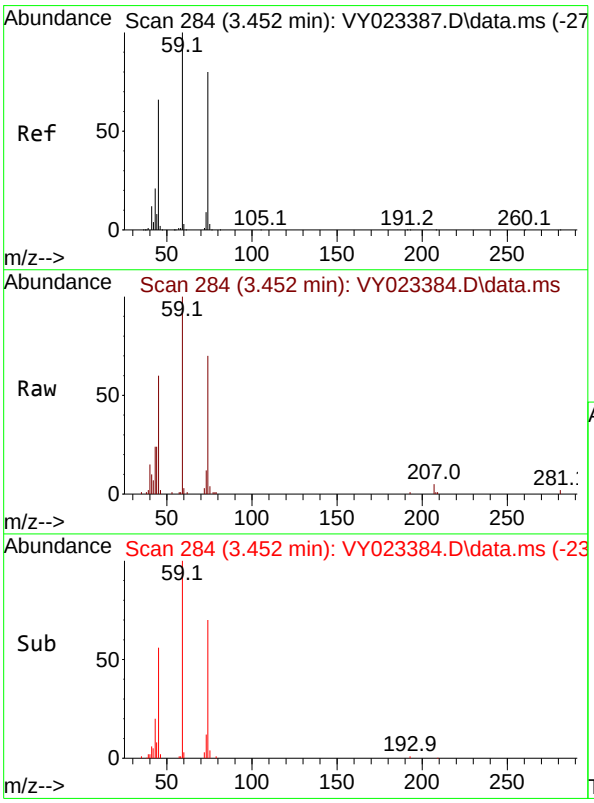
Supervised By :Mahesh Dadoda 10/10/2025

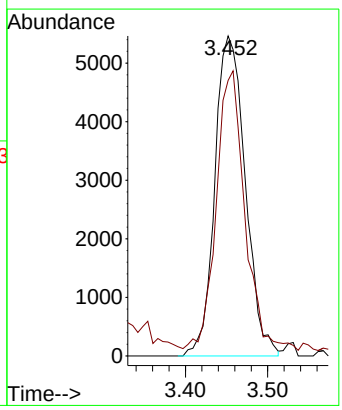


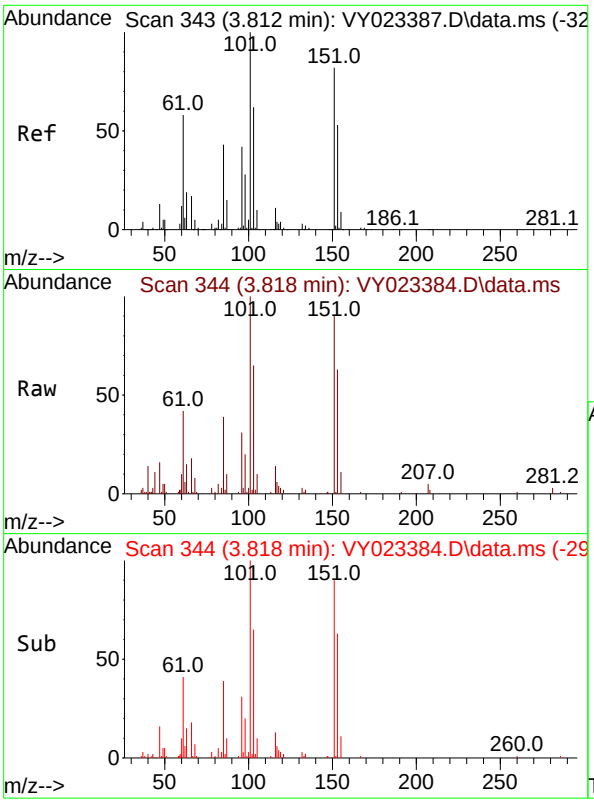




#8
Diethyl Ether
Concen: 5.060 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 74 Resp: 14079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 82.9 | 39.9 | 119.7 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.989 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:101 Resp: 2836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.5 | 34.6 | 51.8 |
| 151 | 82.3 | 67.0 | 100.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

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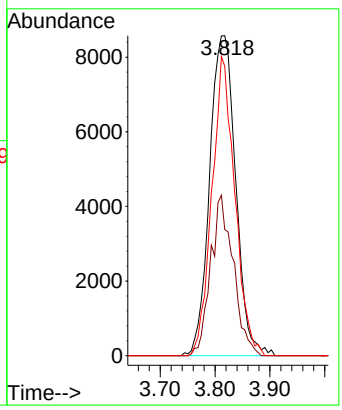
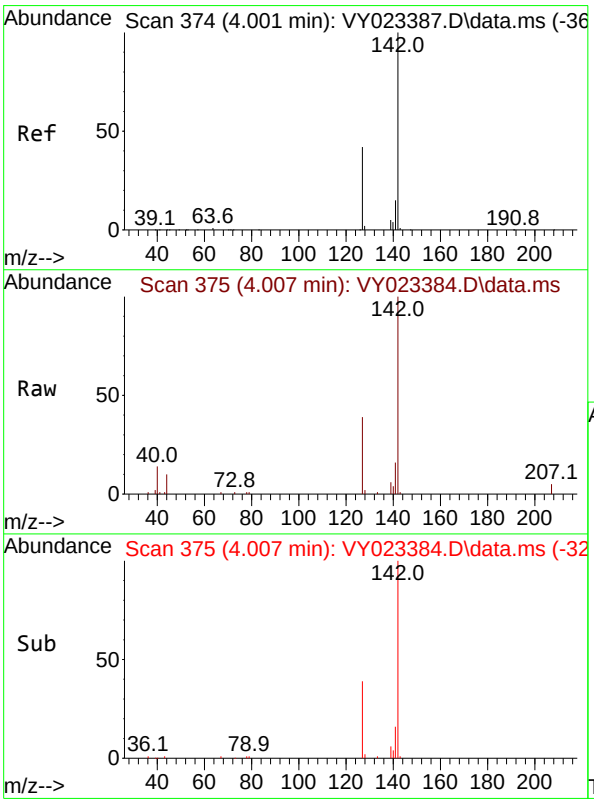
Supervised By :Mahesh Dadoda 10/10/2025

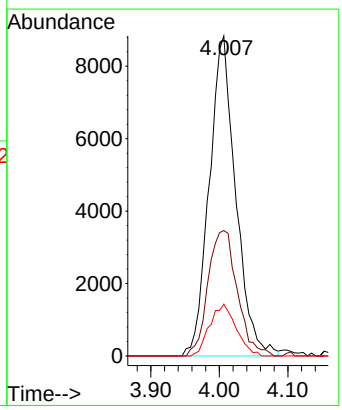


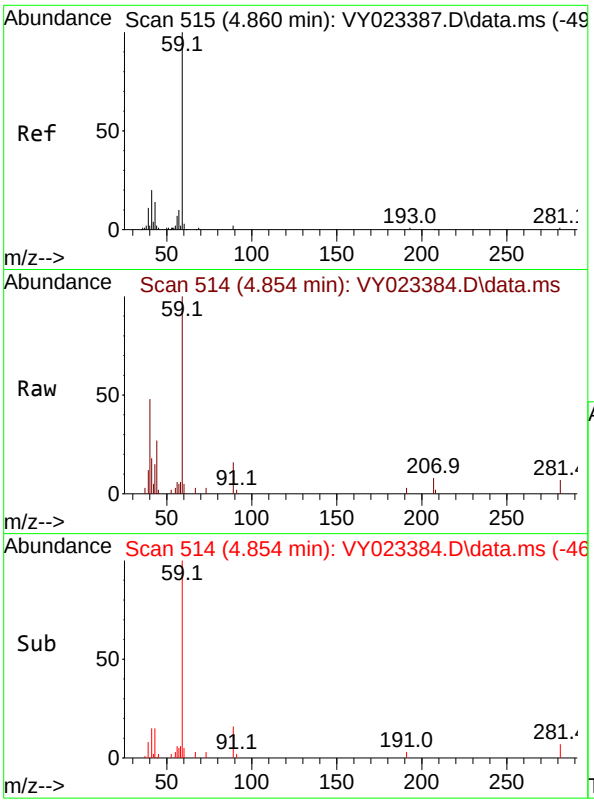




#10
Methyl Iodide
Concen: 3.606 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:142 Resp: 23692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.3 | 34.8 | 52.2 |
| 141 | 16.2 | 11.6 | 17.4 |

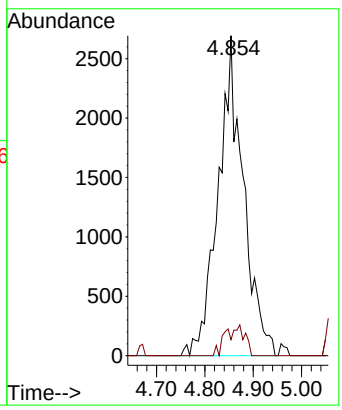





#11
Tert butyl alcohol
Concen: 32.746 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 59 Resp: 977

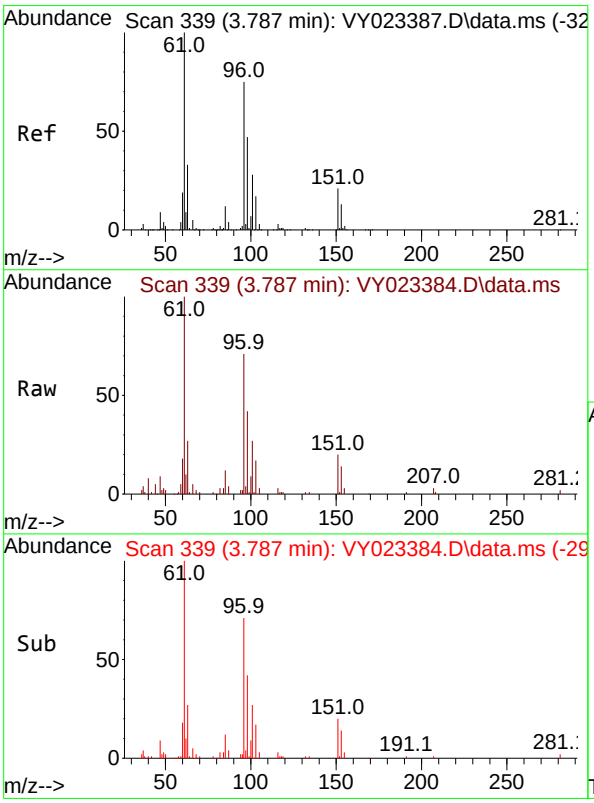
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 3.0 | 8.3 | 12.5# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

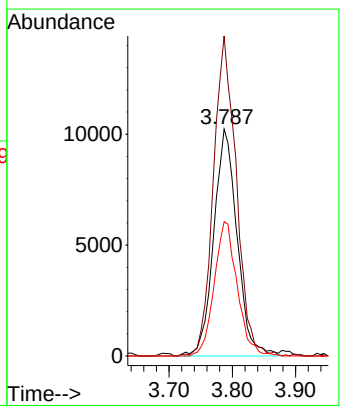
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

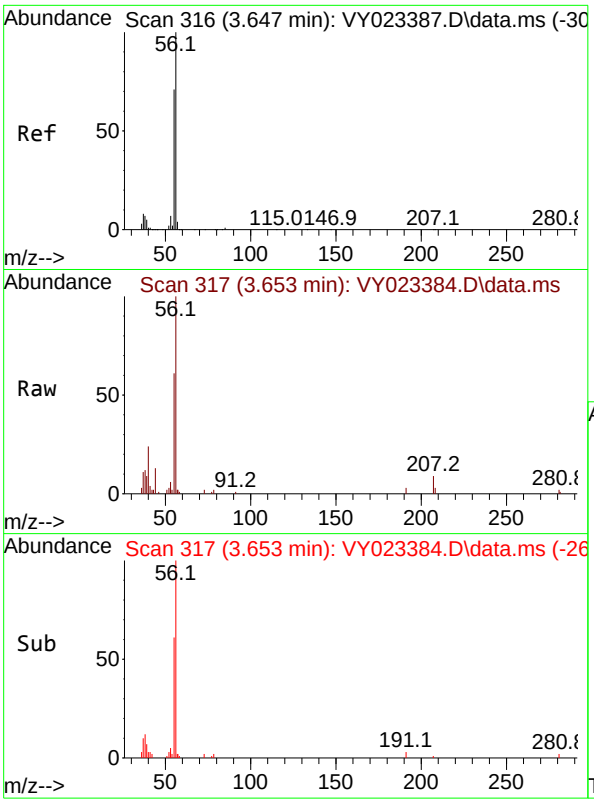



#12
1,1-Dichloroethene
Concen: 4.806 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 96 Resp: 26290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.0 | 106.7 | 160.1 |
| 98 | 59.1 | 50.2 | 75.4 |

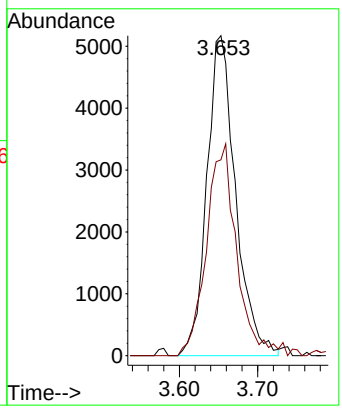





#13
Acrolein
Concen: 26.054 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 56 Resp: 1317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.1 | 56.1 | 84.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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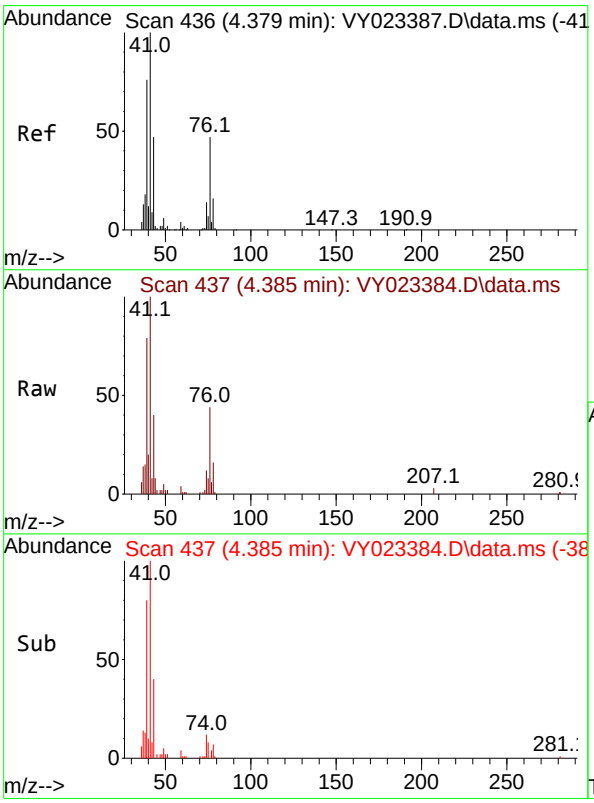
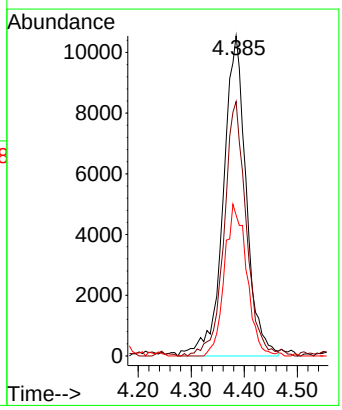
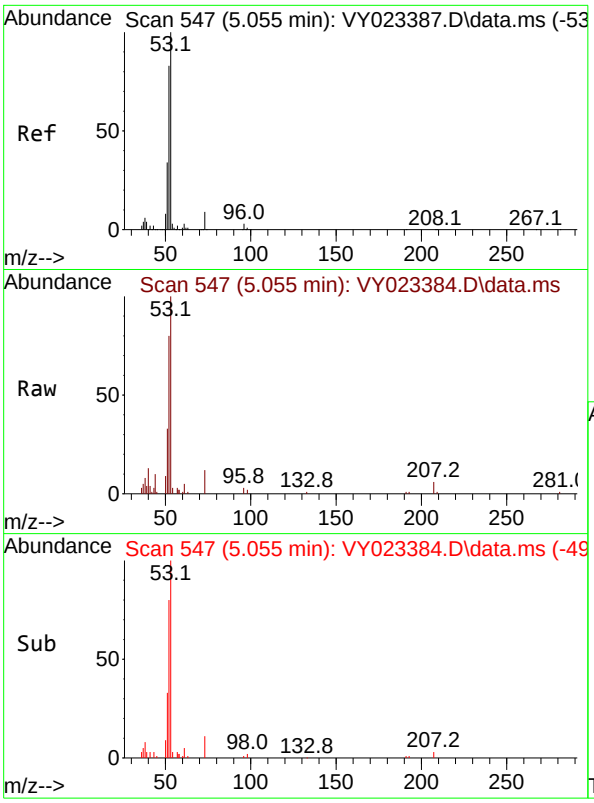



#14
Allyl chloride
Concen: 4.616 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 41 Resp: 31614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 76.6 | 59.9 | 89.9 |
| 76 | 46.2 | 38.0 | 57.0 |

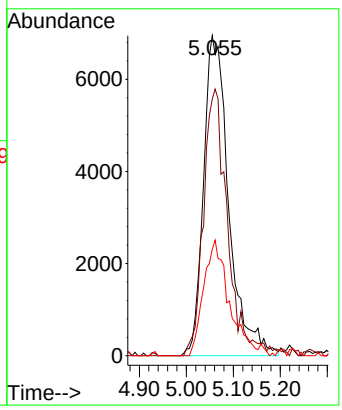





#15
Acrylonitrile
Concen: 23.754 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 53 Resp: 2589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 79.7 | 64.6 | 97.0 |
| 51 | 36.3 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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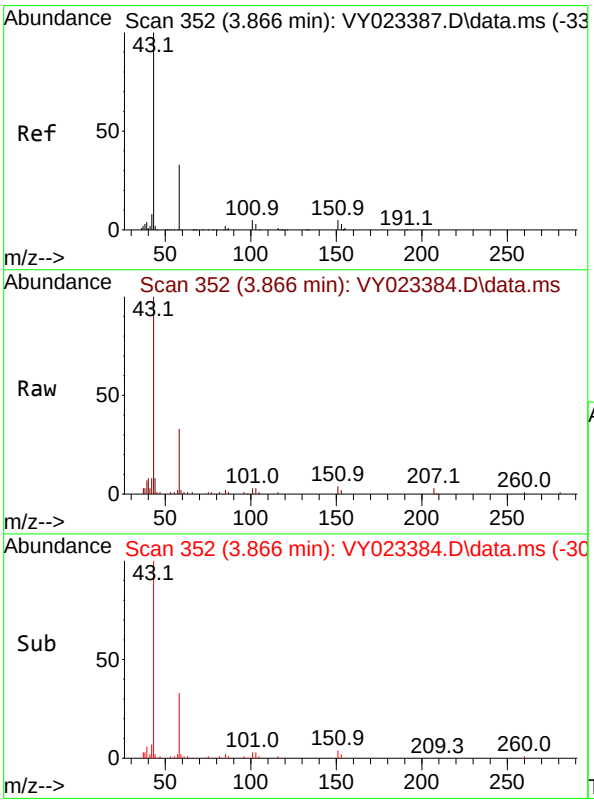
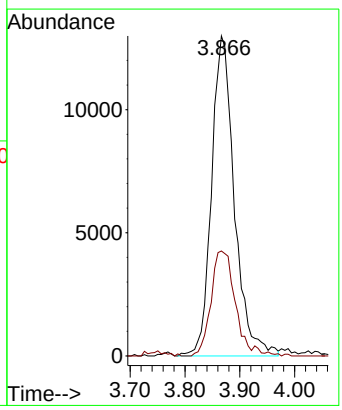
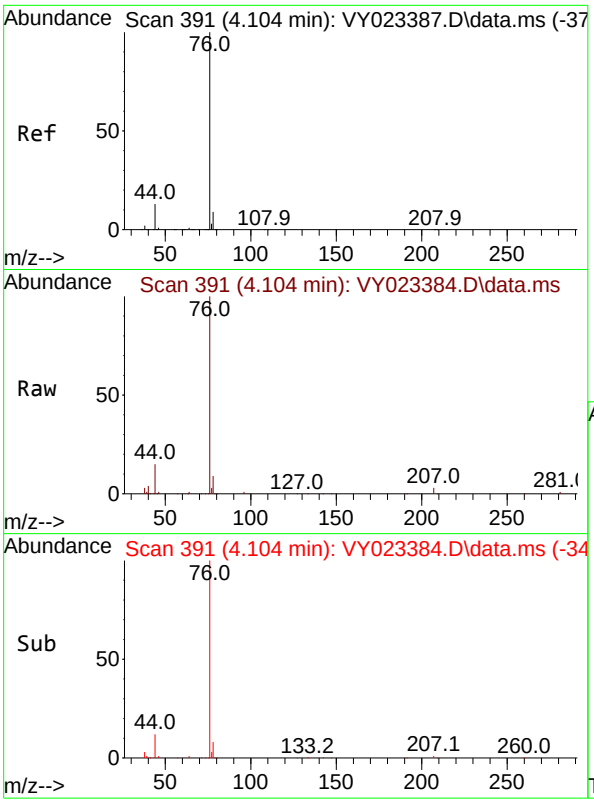



#16
Acetone
Concen: 32.940 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 37573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.1 | 27.7 | 41.5 |






#17
Carbon Disulfide
Concen: 4.432 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 76 Resp: 7564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 7.3 | 10.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

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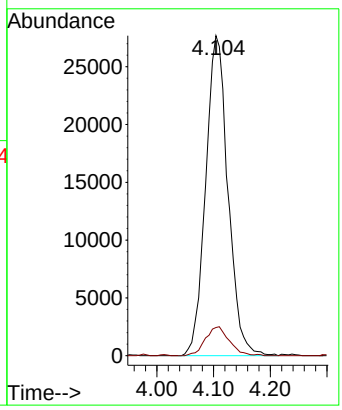
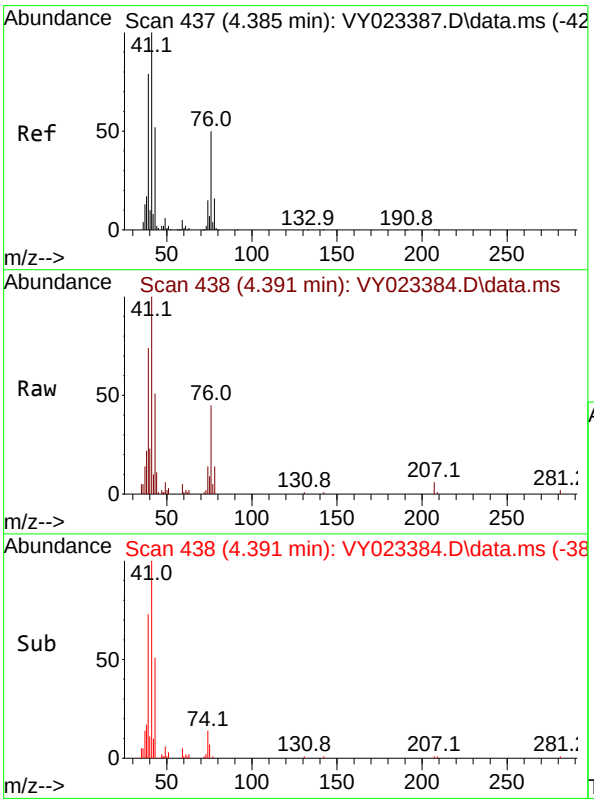
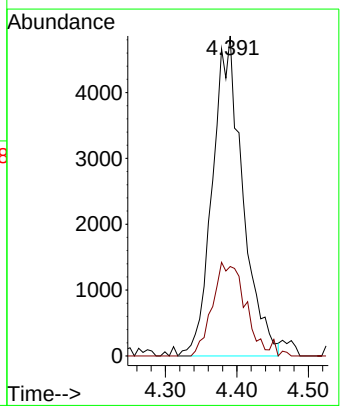


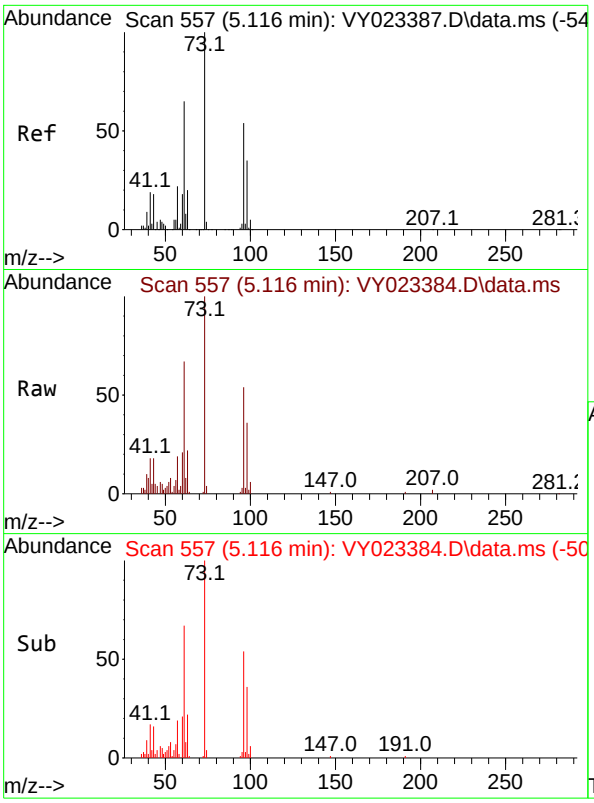




#18
Methyl Acetate
Concen: 4.926 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 14279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 31.4 | 24.2 | 36.4 |

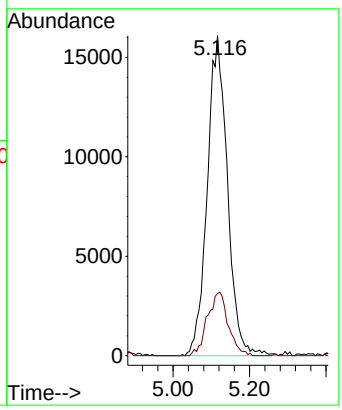





#19
Methyl tert-butyl Ether
Concen: 4.600 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 73 Resp: 5891

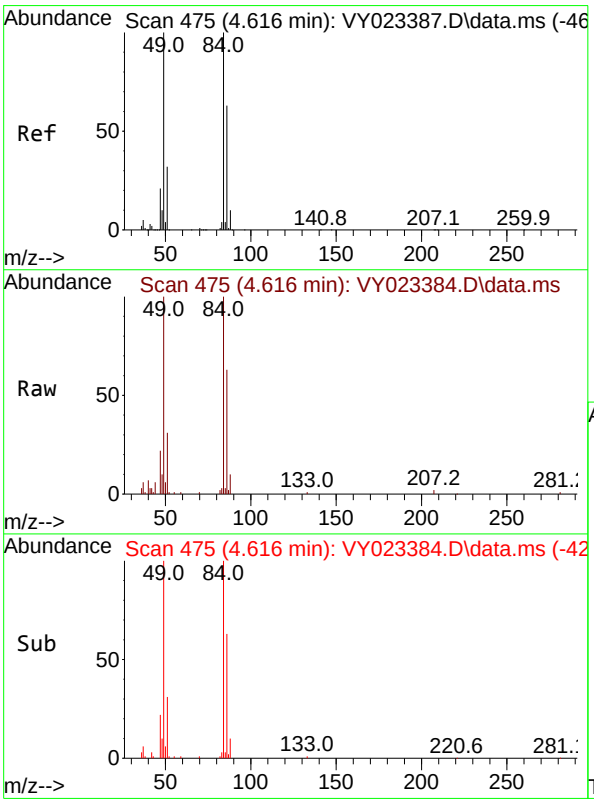
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.4 | 17.4 | 26.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

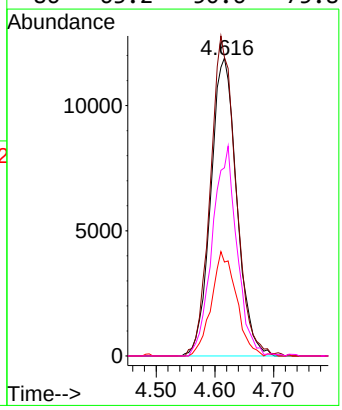
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

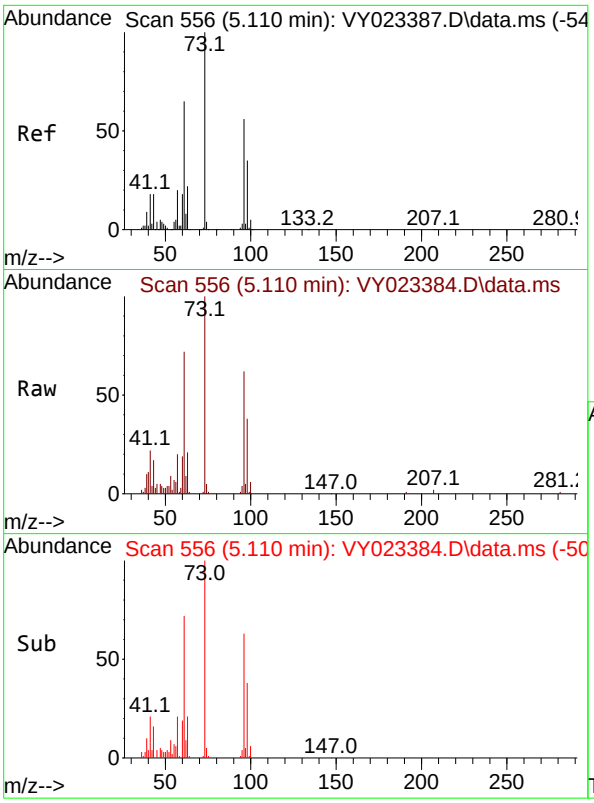



#20
Methylene Chloride
Concen: 5.917 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 84 Resp: 36598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 100.3 | 80.2 | 120.4 |
| 51 | 31.6 | 25.9 | 38.9 |
| 86 | 63.2 | 50.6 | 75.8 |

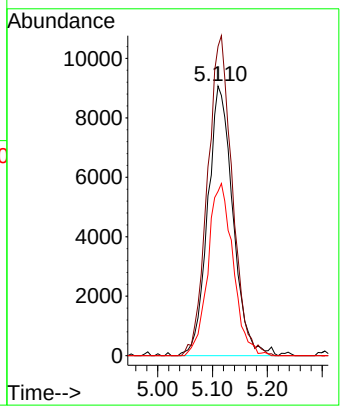





#21
trans-1,2-Dichloroethene
Concen: 4.754 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 96 Resp: 2892

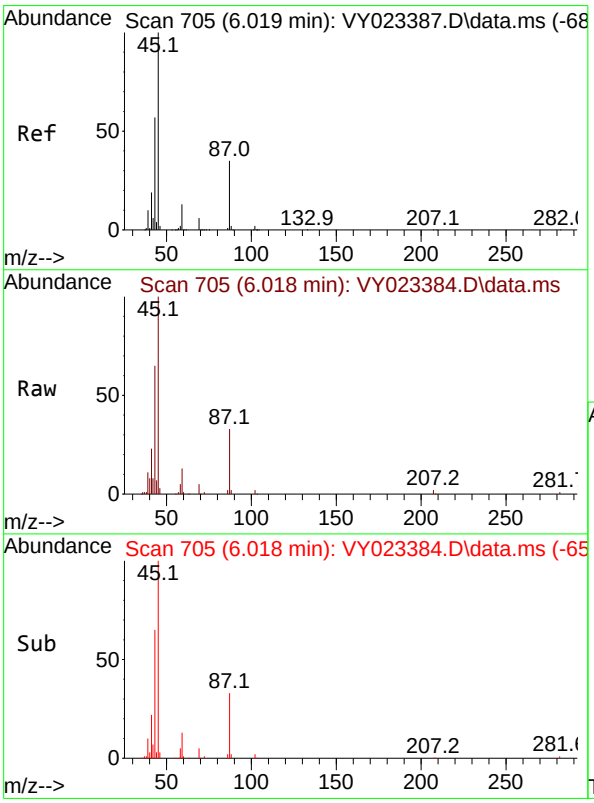
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 114.7 | 92.7 | 139.1 |
| 98 | 61.0 | 49.7 | 74.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

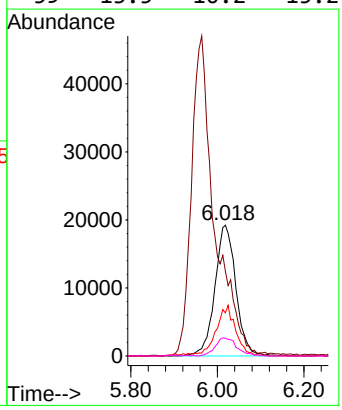
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

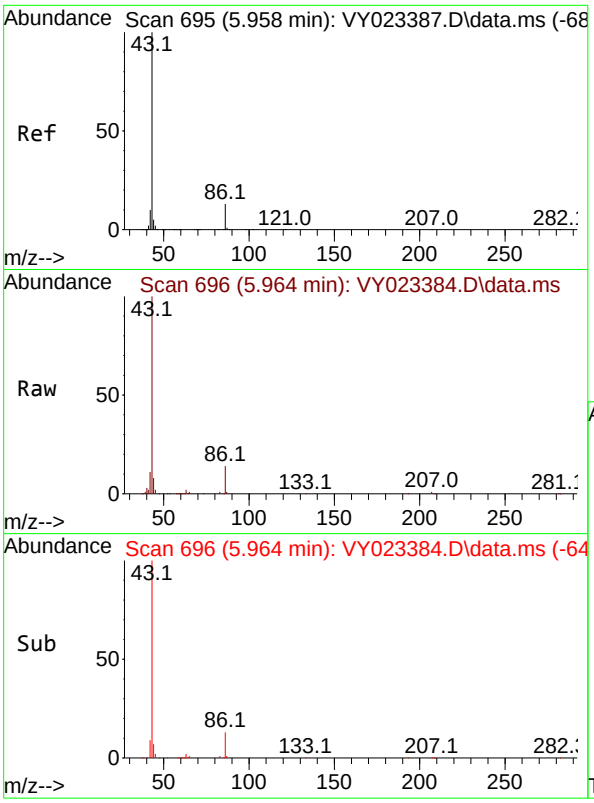



#22
Diisopropyl ether
Concen: 4.269 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 45 Resp: 64833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 63.0 | 45.6 | 68.4 |
| 87 | 32.9 | 28.1 | 42.1 |
| 59 | 13.5 | 10.2 | 15.2 |

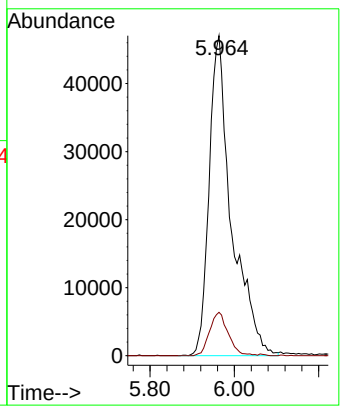





#23
Vinyl Acetate
Concen: 20.824 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 17385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 13.6 | 10.6 | 15.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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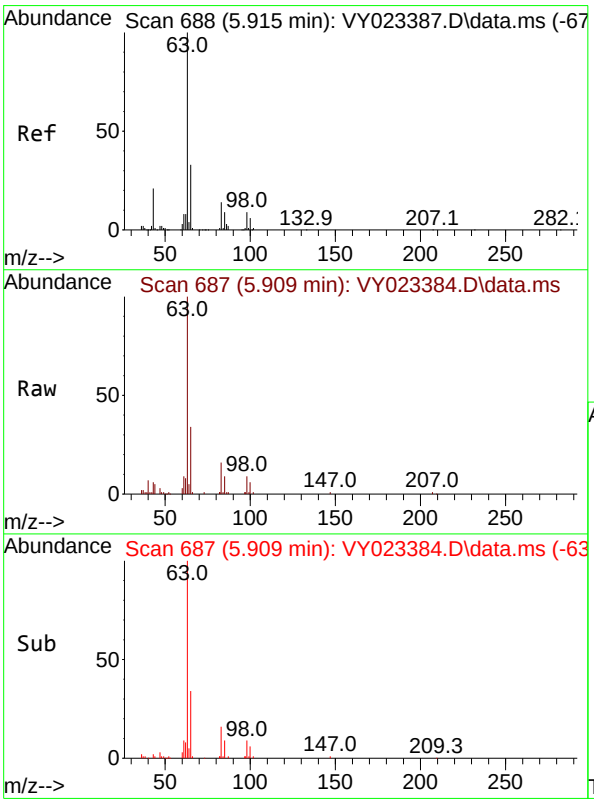
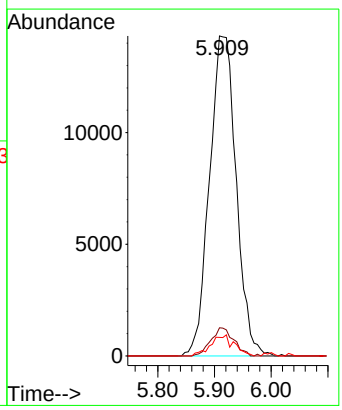
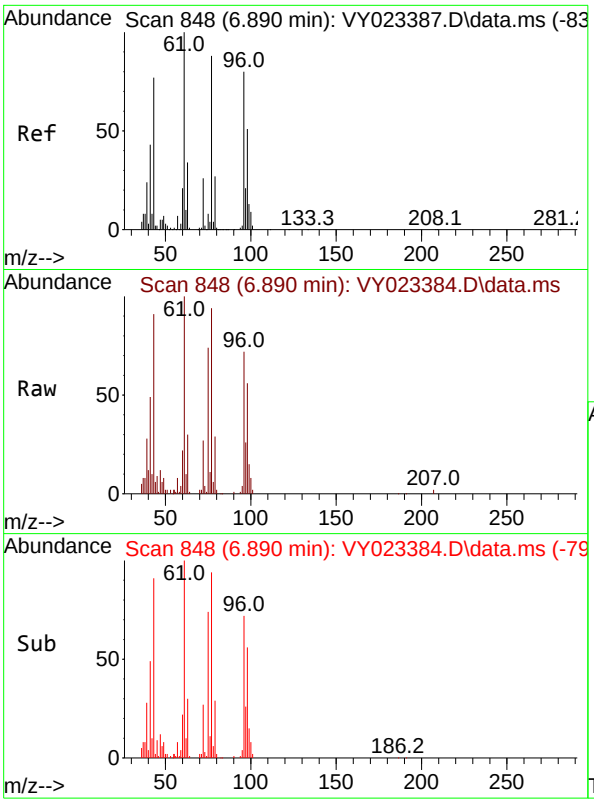



#24
1,1-Dichloroethane
Concen: 4.679 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 63 Resp: 46850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.8 | 4.3 | 13.1 |
| 100 | 5.8 | 2.8 | 8.4 |






#25
2-Butanone
Concen: 27.656 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 3899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.0 | 27.4 | 41.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

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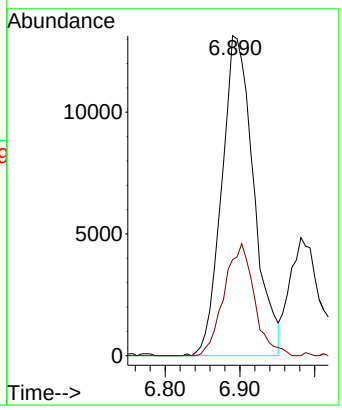
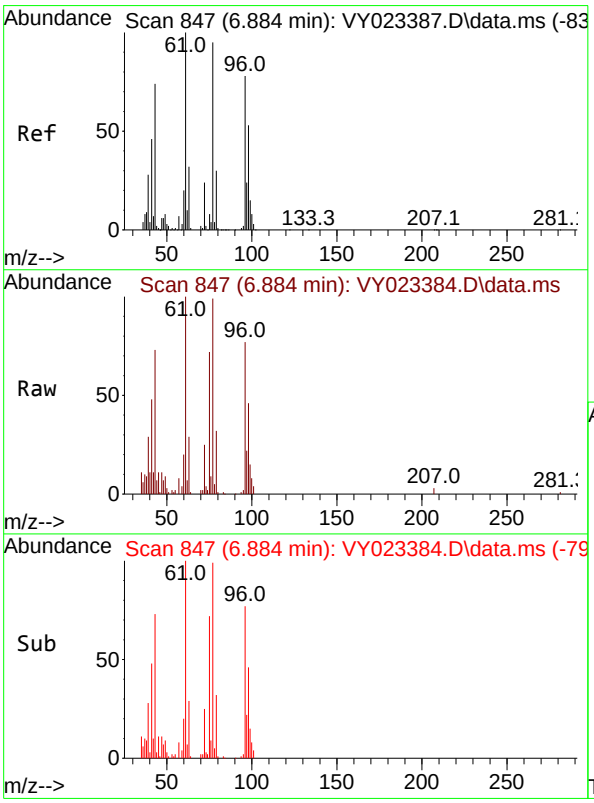
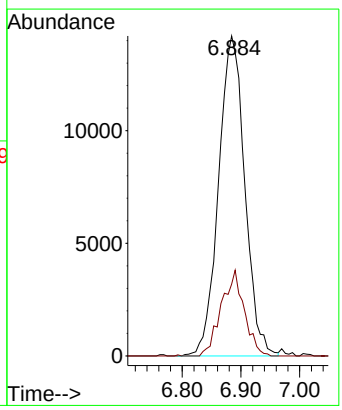


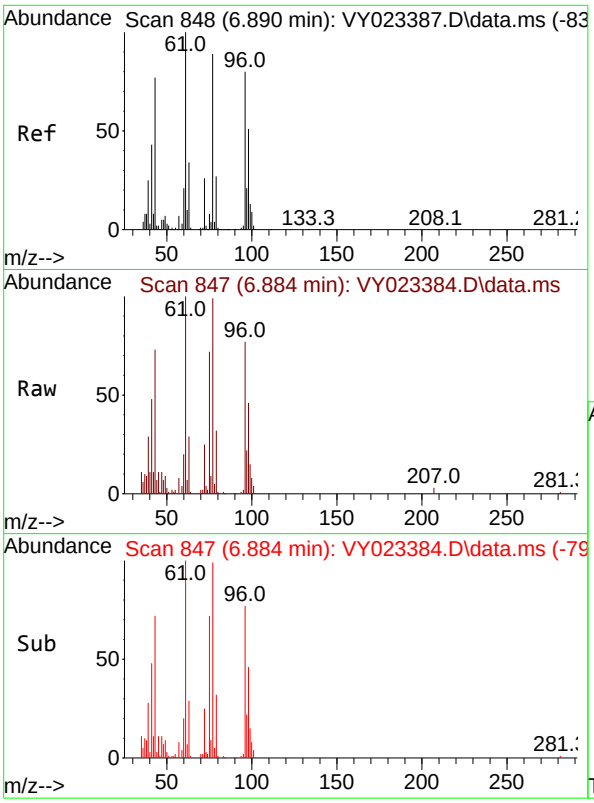




#26
2,2-Dichloropropane
Concen: 4.953 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 77 Resp: 44062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.4 | 12.1 | 36.3 |

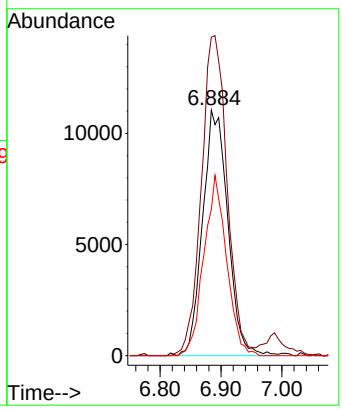





#27
cis-1,2-Dichloroethene
Concen: 4.600 ug/l
RT: 6.884 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 96 Resp: 3174

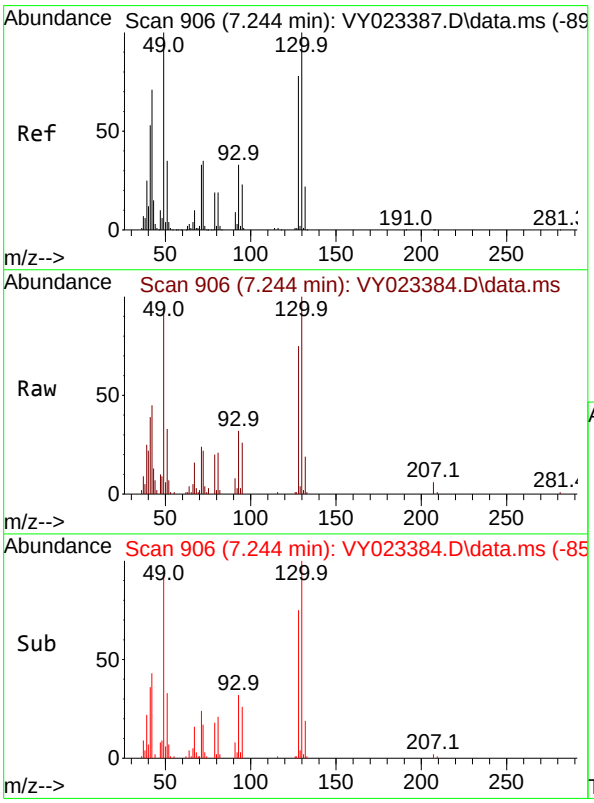
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.3 | 0.0 | 258.2 |
| 98 | 66.1 | 0.0 | 132.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

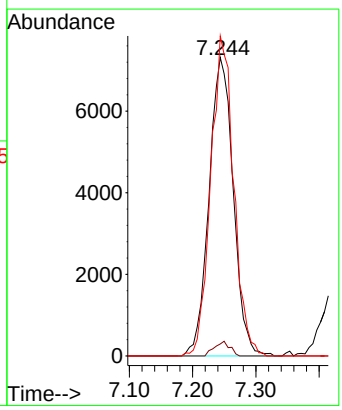
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

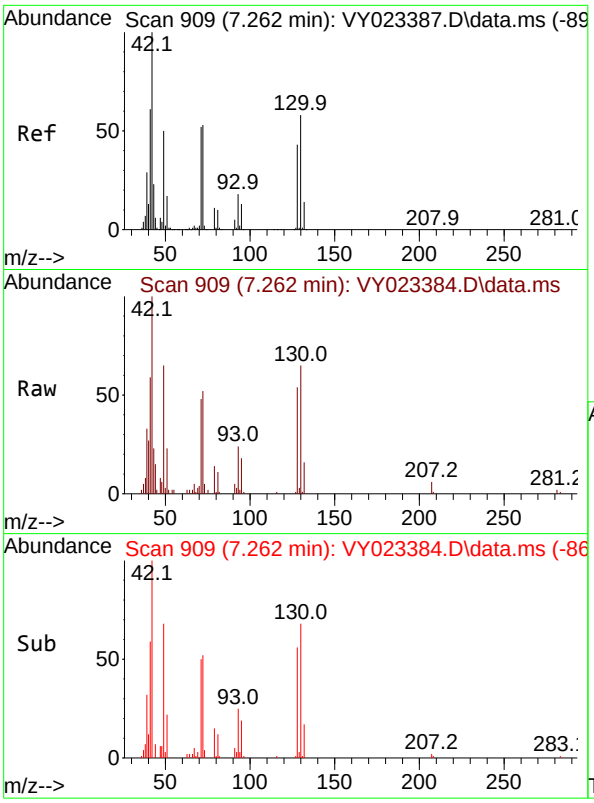



#28
Bromochloromethane
Concen: 5.006 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 49 Resp: 19445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 3.1 | 0.0 | 5.6 |
| 130 | 101.5 | 81.9 | 122.9 |

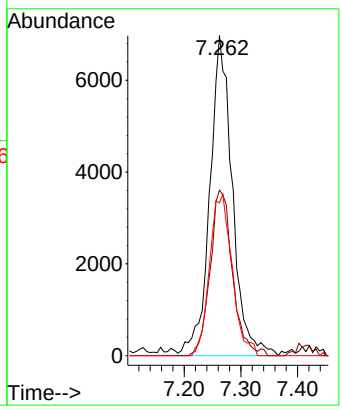





#29
Tetrahydrofuran
Concen: 23.059 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 42 Resp: 1929(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 51.0 | 43.0 | 64.6 |
| 71 | 50.4 | 40.1 | 60.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

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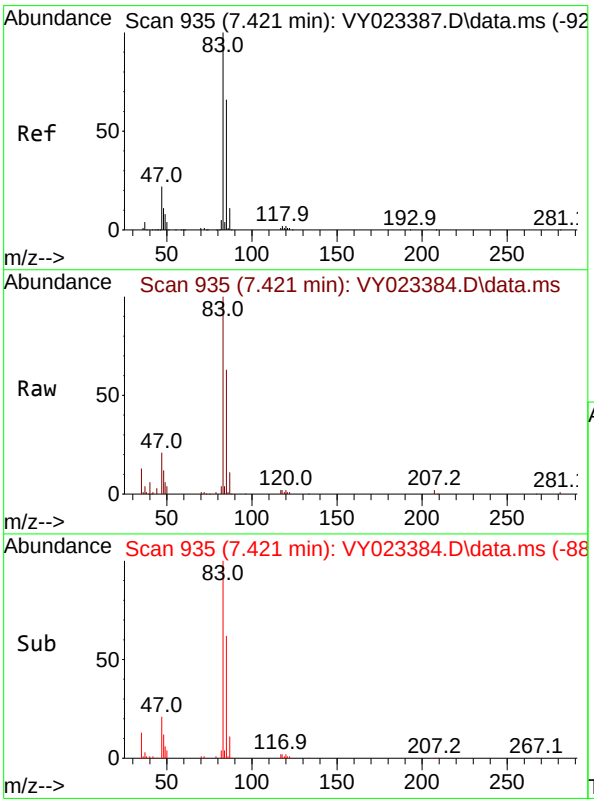
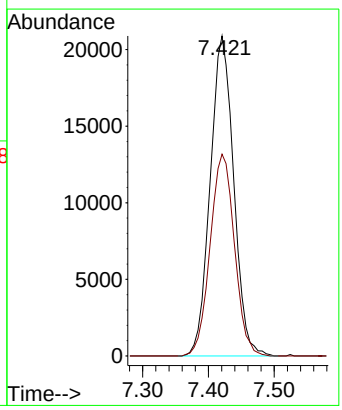
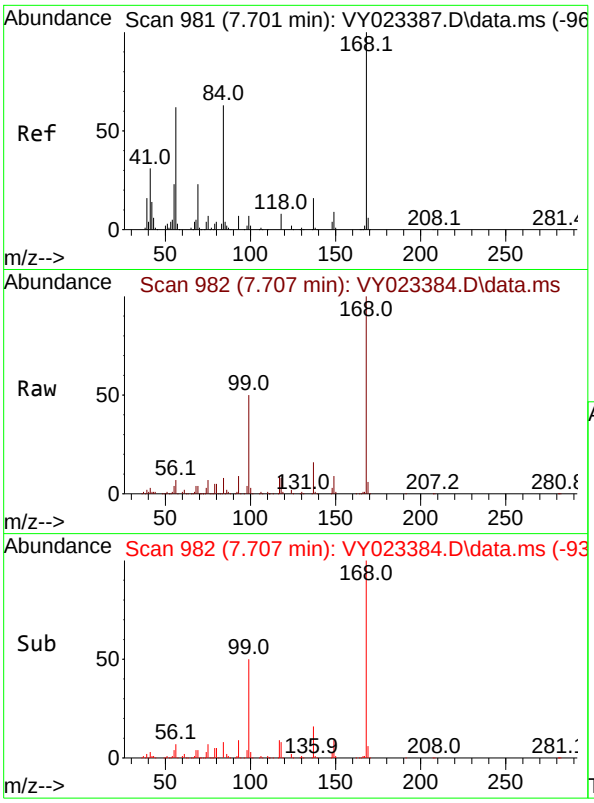



#30
Chloroform
Concen: 4.806 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 83 Resp: 51887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.0 | 52.5 | 78.7 |

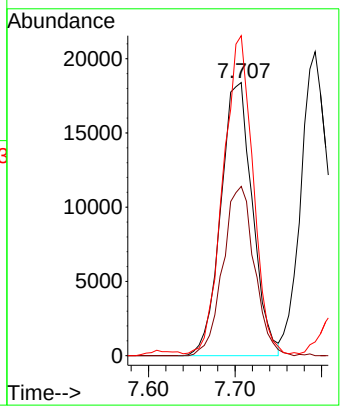





#31
Cyclohexane
Concen: 5.279 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 56 Resp: 4667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 62.0 | 30.0 | 45.0 |
| 84 | 115.8 | 81.2 | 121.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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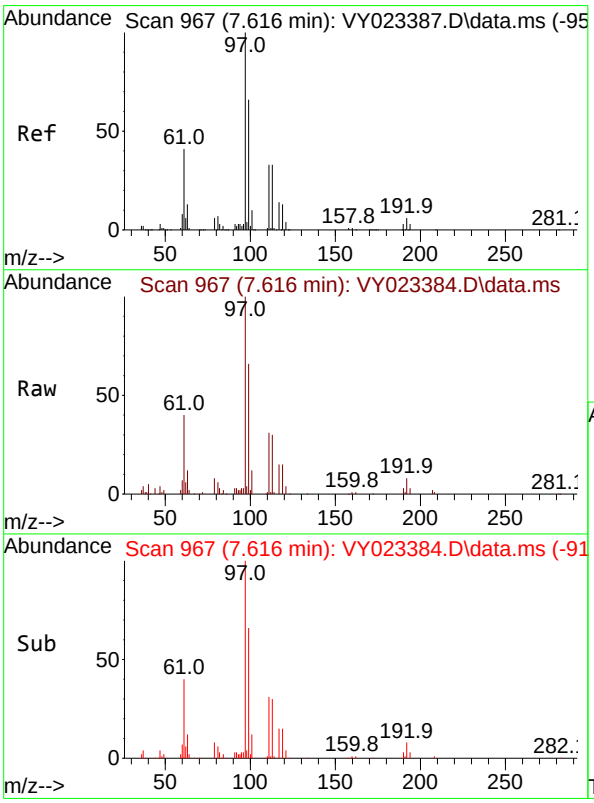
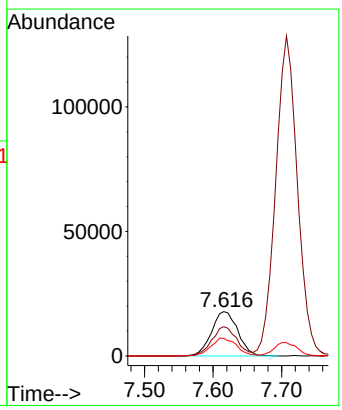
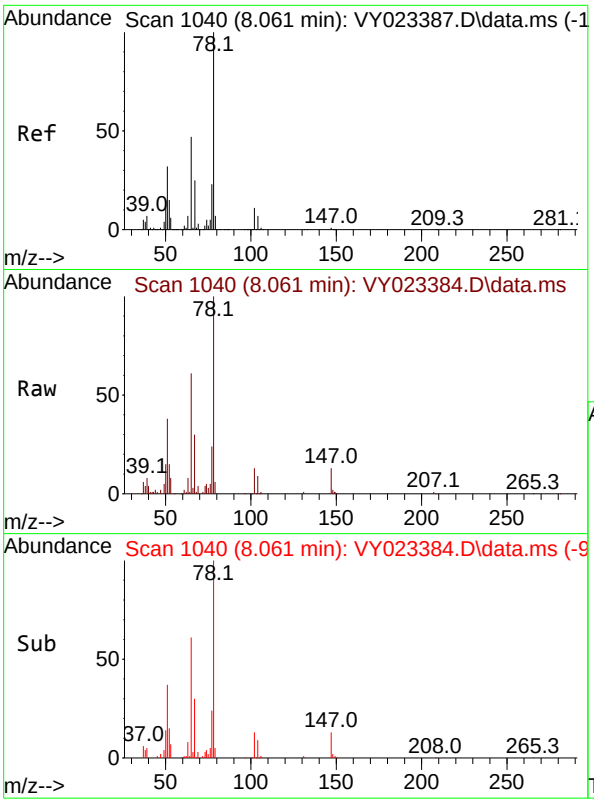



#32
1,1,1-Trichloroethane
Concen: 4.881 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 97 Resp: 47305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.1 | 51.4 | 77.2 |
| 61 | 39.4 | 31.9 | 47.9 |

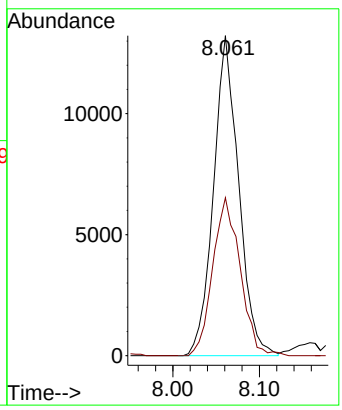





#33
1,2-Dichloroethane-d4
Concen: 5.258 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 65 Resp: 2667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.7 | 0.0 | 105.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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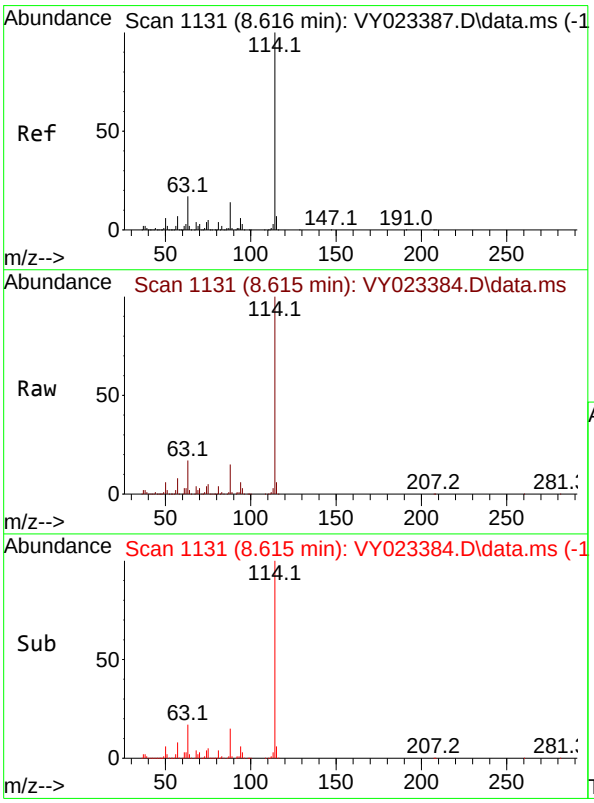
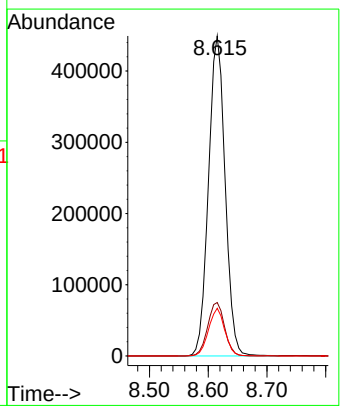
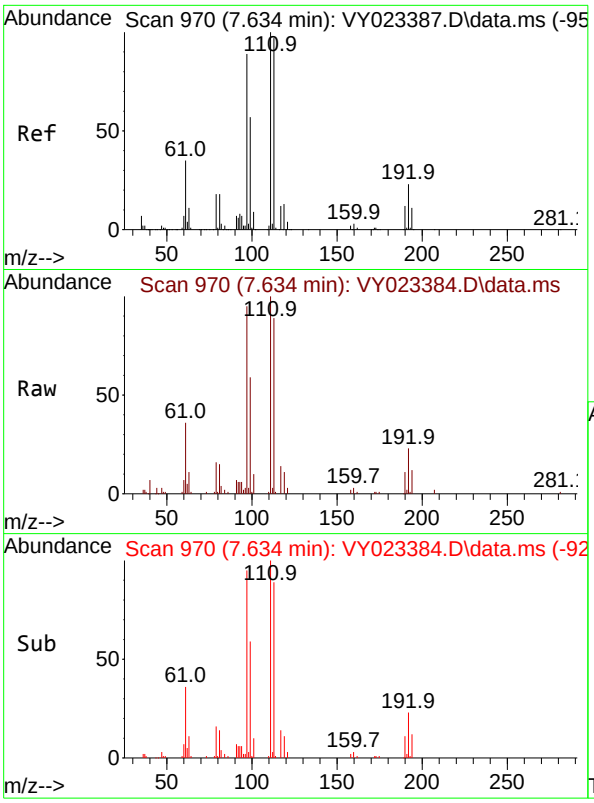



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:114 Resp: 882488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 16.7 | 0.0 | 34.2 |
| 88 | 14.9 | 0.0 | 28.4 |

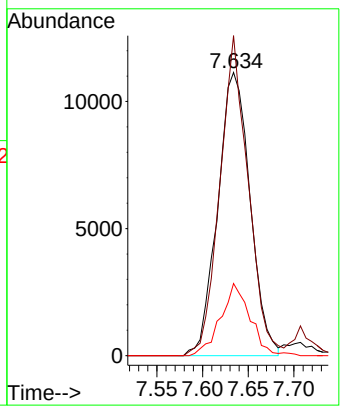





#35
Dibromofluoromethane
Concen: 5.126 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:113 Resp: 2745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 99.0 | 81.8 | 122.6 |
| 192 | 23.4 | 18.0 | 27.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 10/10/2025
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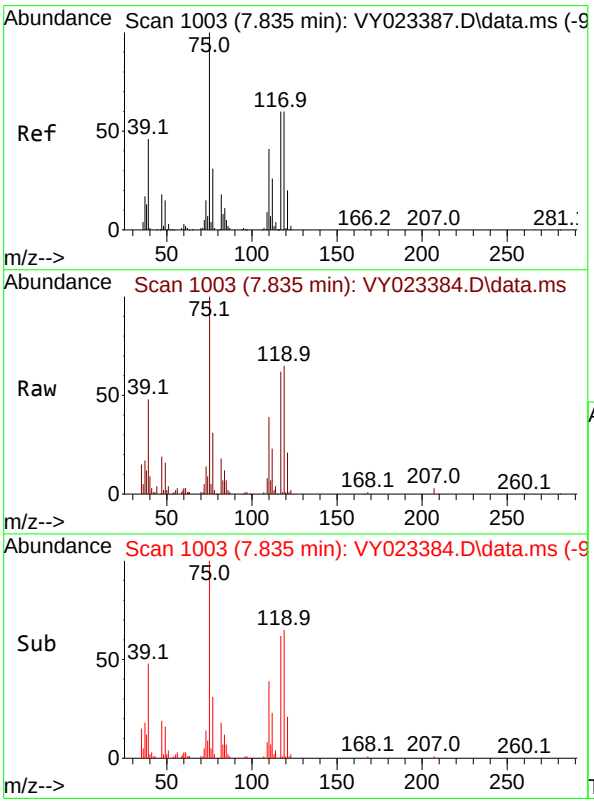
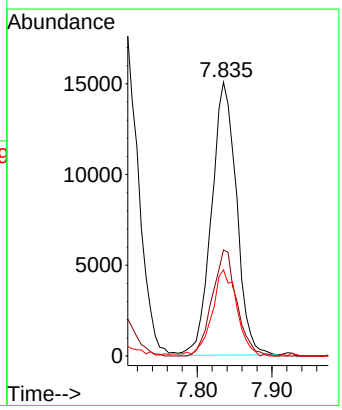
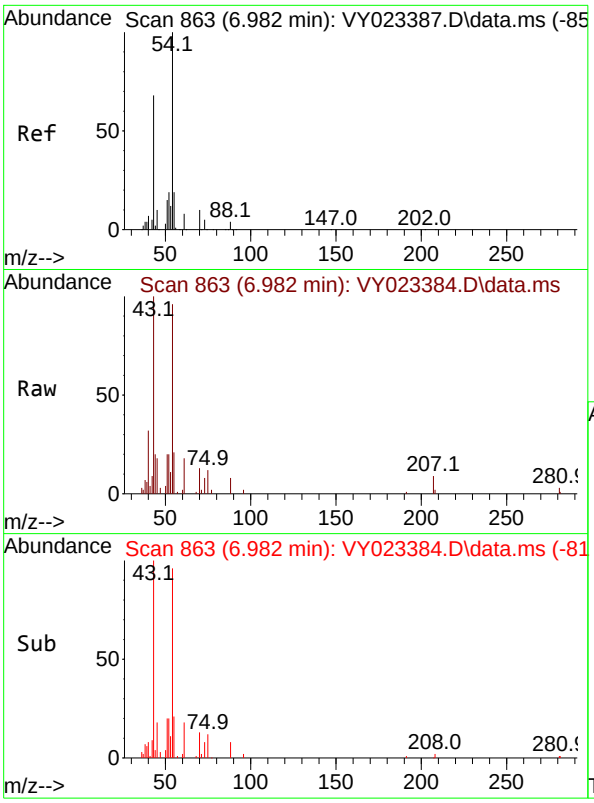



#36
1,1-Dichloropropene
Concen: 4.617 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 75 Resp: 34888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 38.3 | 19.9 | 59.7 |
| 77 | 32.1 | 25.0 | 37.6 |






#37
Ethyl Acetate
Concen: 4.379 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

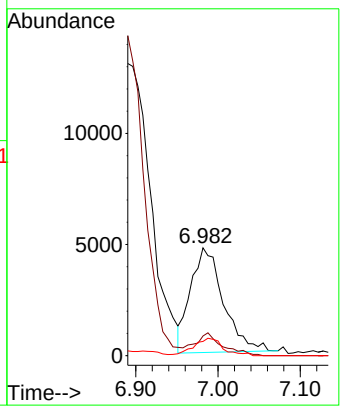
Tgt Ion: 43 Resp: 1308

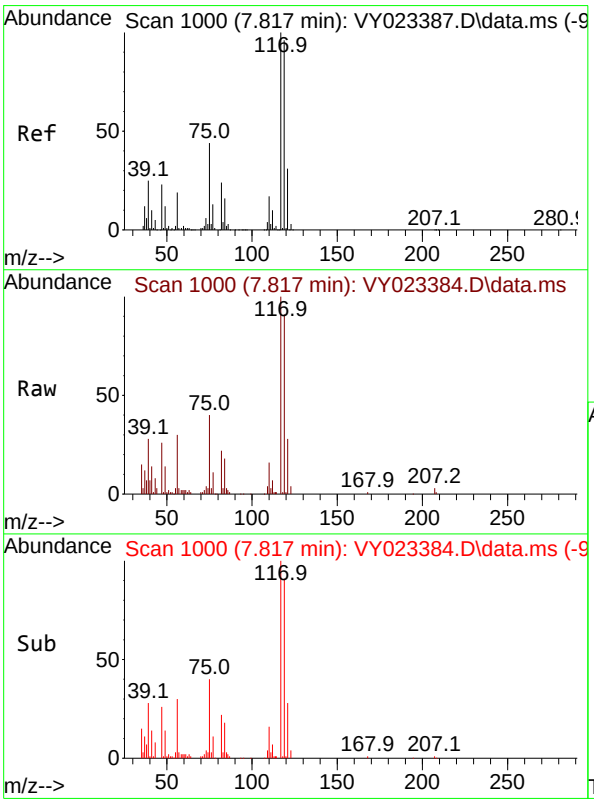
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 18.2 | 11.8 | 17.8 |
| 70 | 15.0 | 10.5 | 15.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

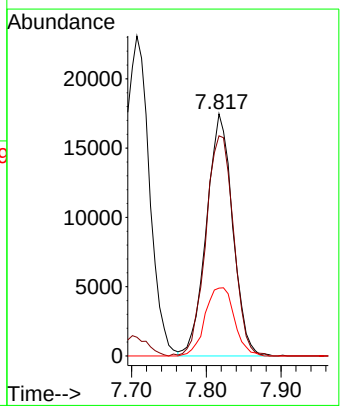


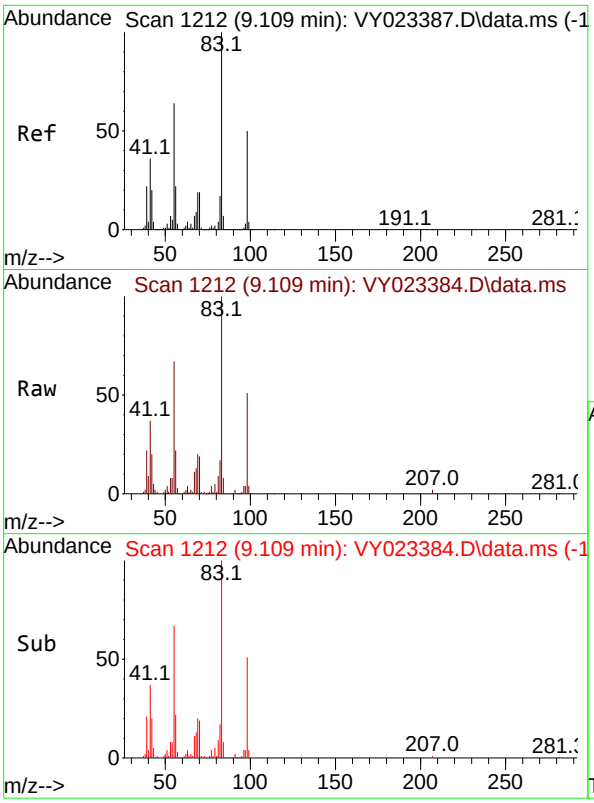




#38
Carbon Tetrachloride
Concen: 4.859 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:117 Resp: 42654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.0 | 76.8 | 115.2 |
| 121 | 28.0 | 24.5 | 36.7 |

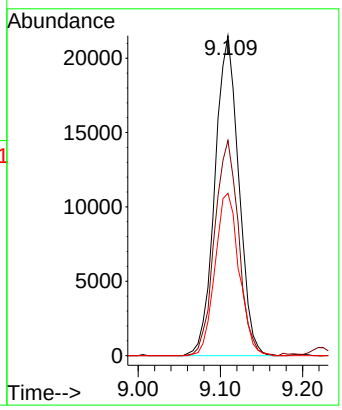





#39
Methylcyclohexane
Concen: 4.479 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 83 Resp: 4332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 67.2 | 51.4 | 77.2 |
| 98 | 50.8 | 40.4 | 60.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
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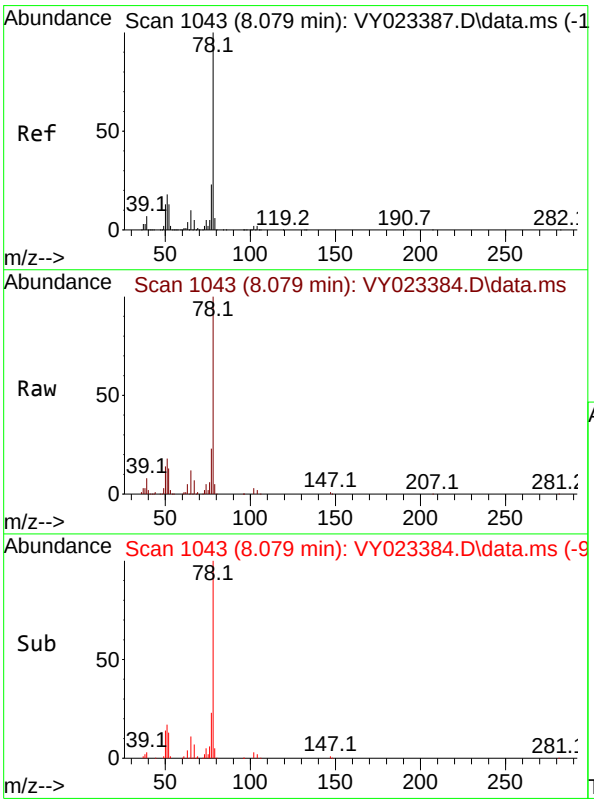
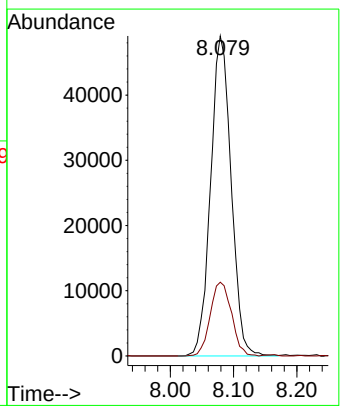
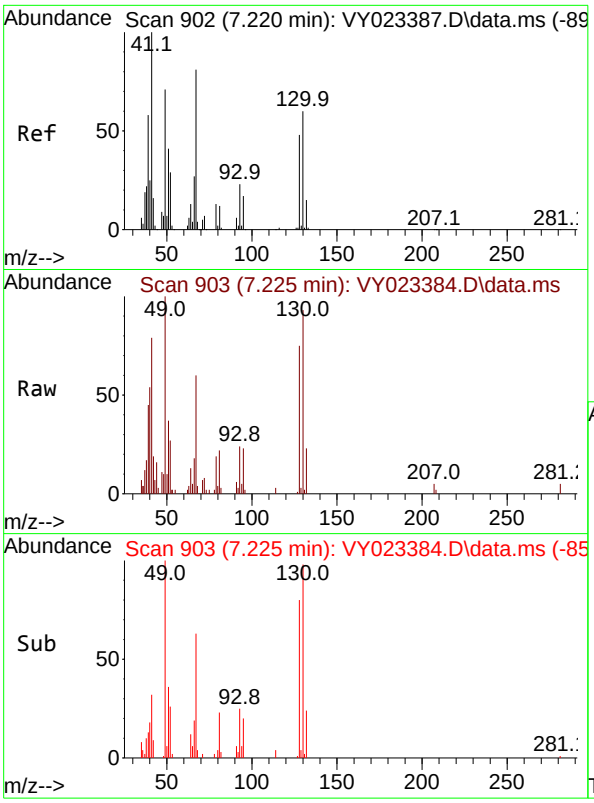



#40
Benzene
Concen: 4.693 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 78 Resp: 110551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.0 | 18.3 | 27.5 |

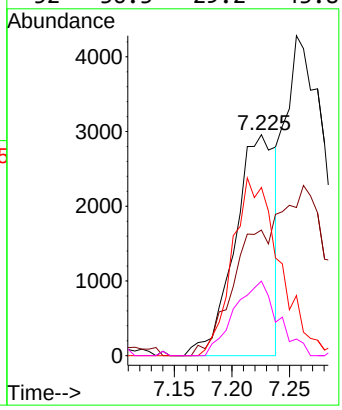





#41
Methacrylonitrile
Concen: 4.658 ug/l m
RT: 7.225 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 41 Resp: 722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 0.0 | 52.2 | 78.4 |
| 67 | 95.1 | 74.9 | 112.3 |
| 52 | 36.3 | 29.2 | 43.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

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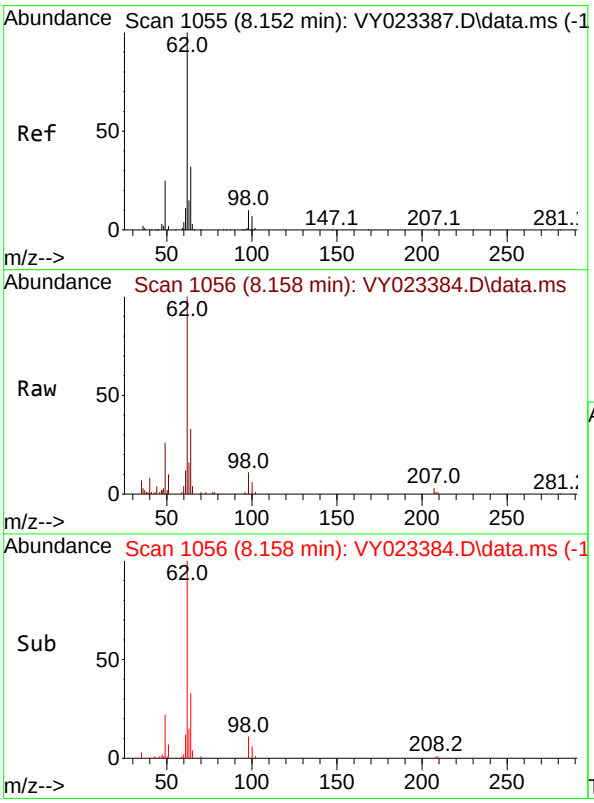
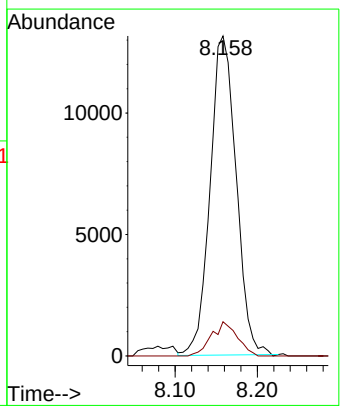
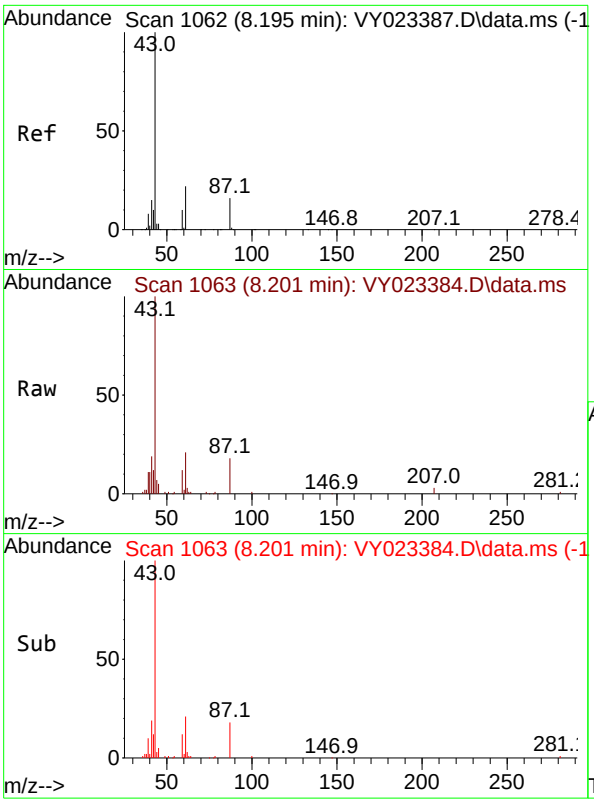



#42
1,2-Dichloroethane
Concen: 4.828 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 62 Resp: 28940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.6 | 0.0 | 21.6 |

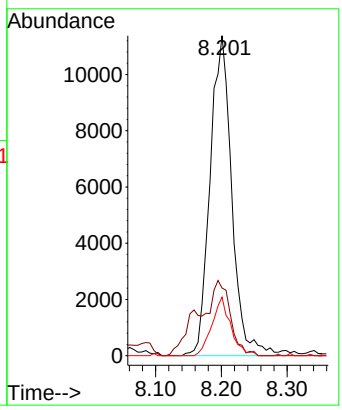





#43
Isopropyl Acetate
Concen: 4.503 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 2616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.6 | 18.1 | 27.1 |
| 87 | 15.9 | 13.5 | 20.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
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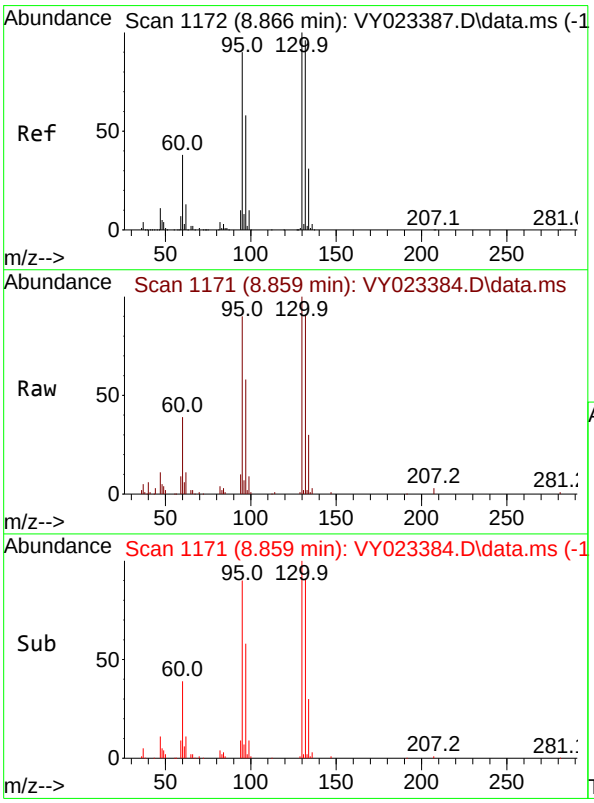
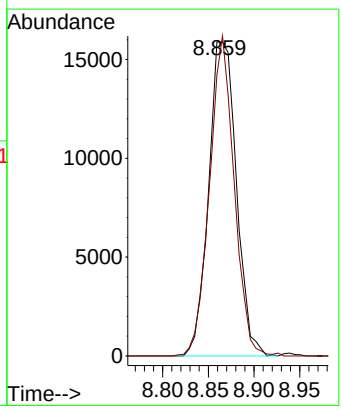
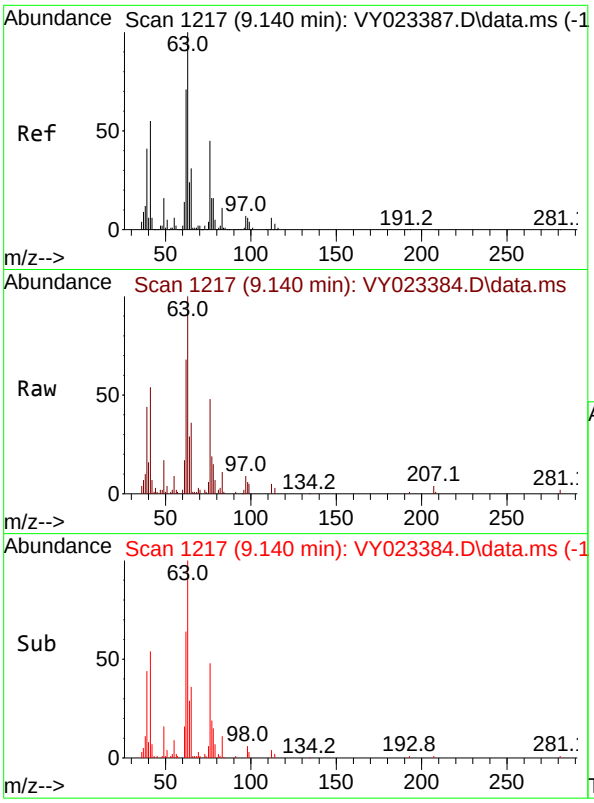



#44
Trichloroethene
Concen: 5.077 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. -0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:130 Resp: 33564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 89.2 | 0.0 | 180.6 |

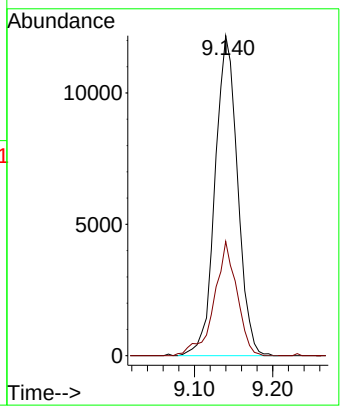





#45
1,2-Dichloropropane
Concen: 4.595 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 63 Resp: 2435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 35.7 | 24.9 | 37.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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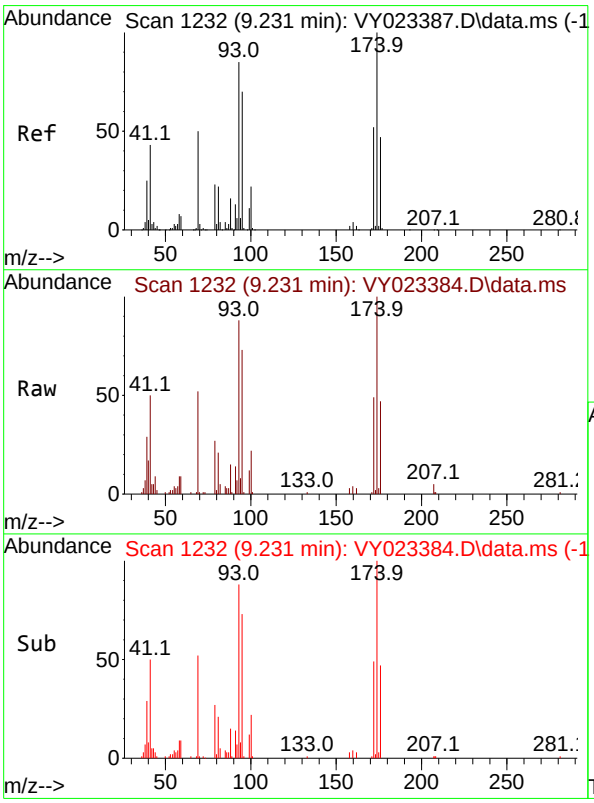
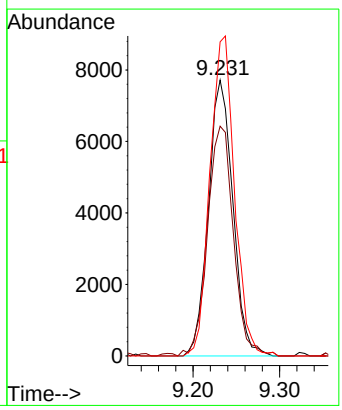
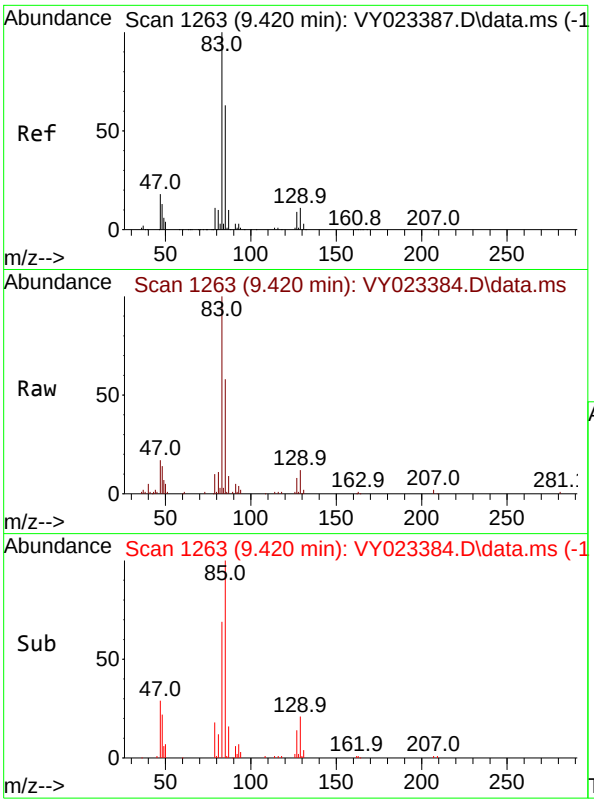



#46
Dibromomethane
Concen: 4.682 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 93 Resp: 15179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 87.6 | 65.4 | 98.0 |
| 174 | 116.2 | 92.9 | 139.3 |

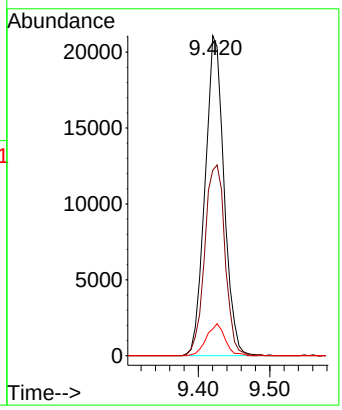





#47
Bromodichloromethane
Concen: 4.756 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 83 Resp: 3881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 57.9 | 50.8 | 76.2 |
| 127 | 8.4 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

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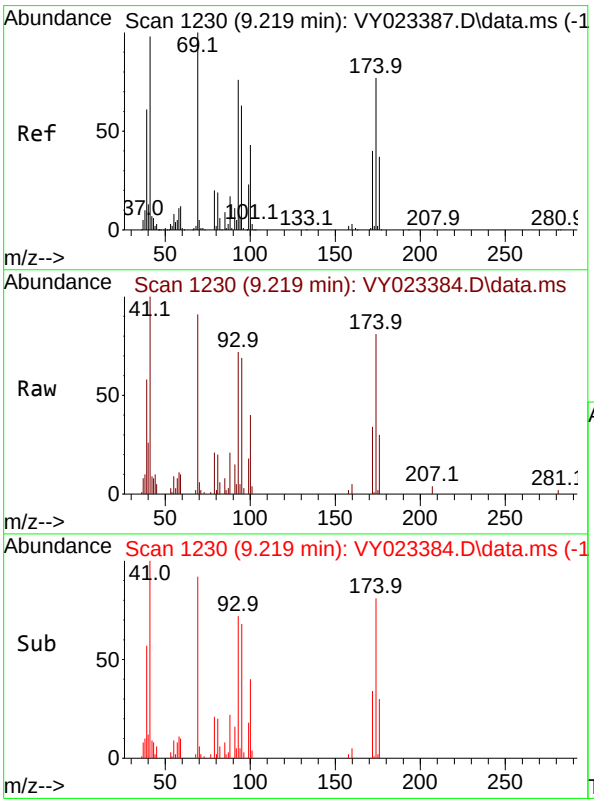
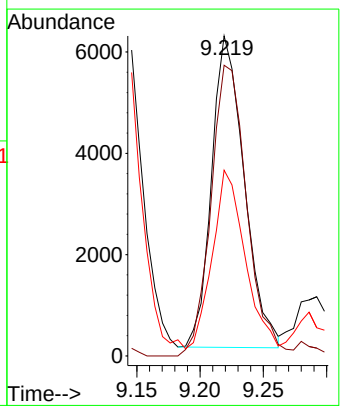
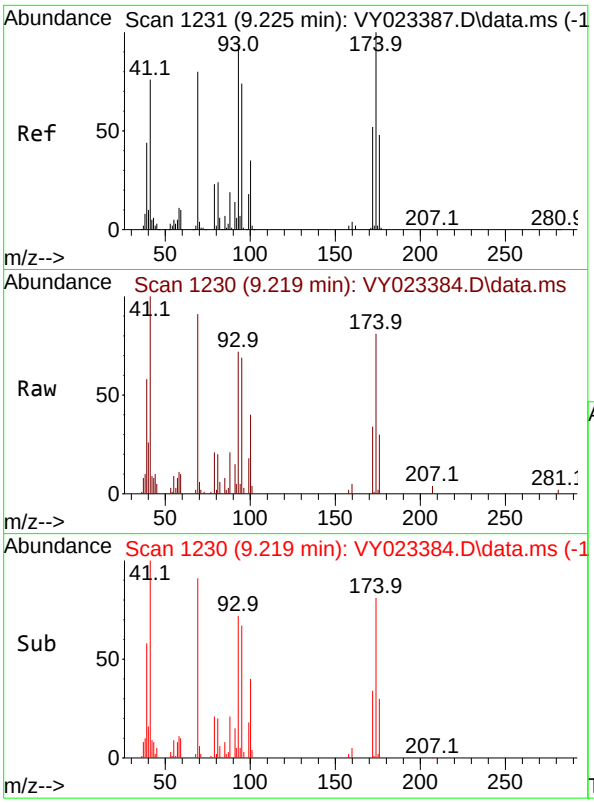



#48
Methyl methacrylate
Concen: 4.071 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 41 Resp: 11038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 102.5 | 81.0 | 121.4 |
| 39 | 62.4 | 48.2 | 72.4 |






#49
1,4-Dioxane
Concen: 96.953 ug/l
RT: 9.219 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 88 Resp: 325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 43.1 | 21.8 | 32.8 |
| 58 | 63.4 | 46.8 | 70.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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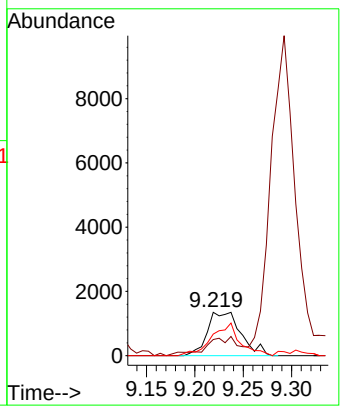
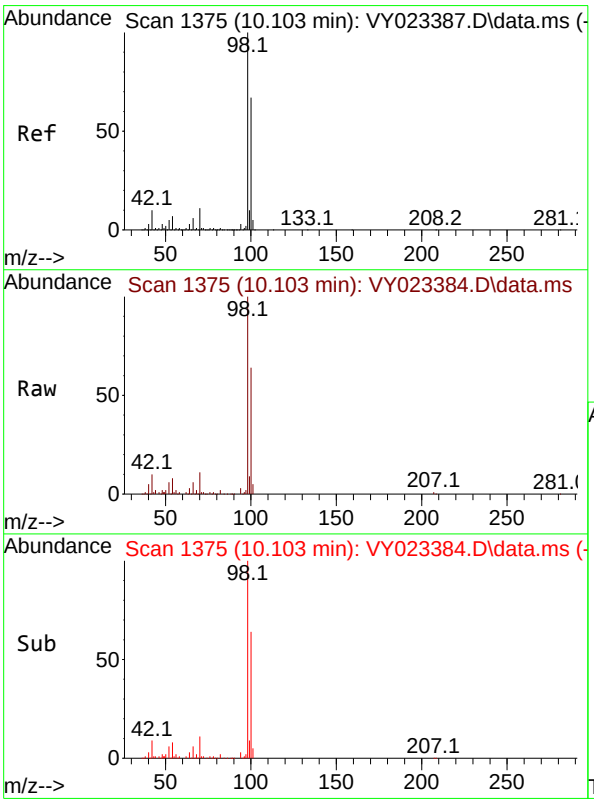
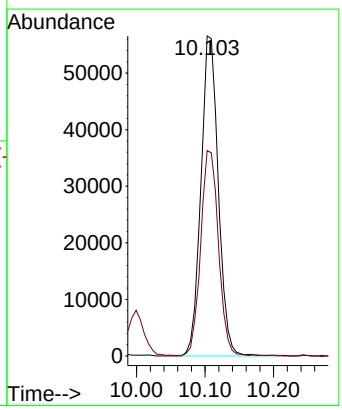


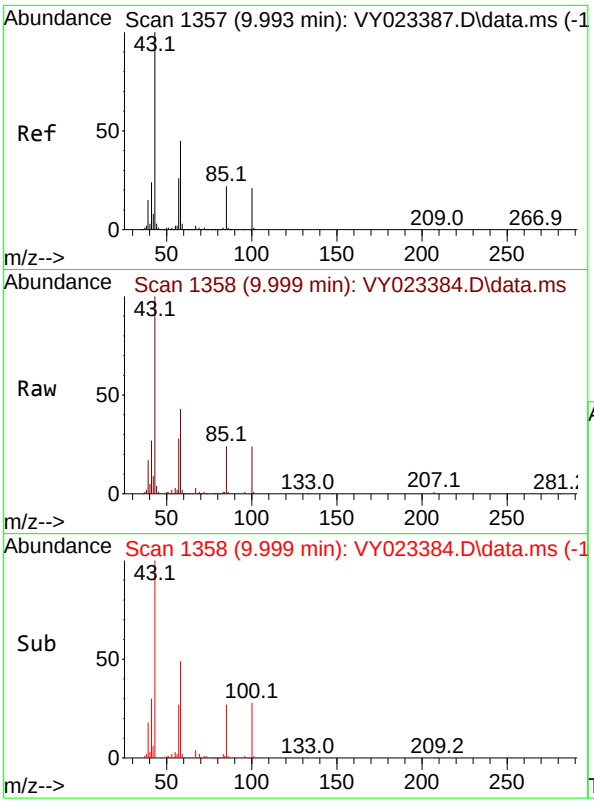




#50
Toluene-d8
Concen: 4.946 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 98 Resp: 99905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.3 | 53.0 | 79.4 |

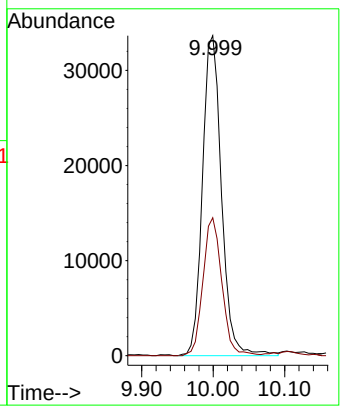





#51
4-Methyl-2-Pentanone
Concen: 20.925 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 6227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.7 | 35.3 | 52.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
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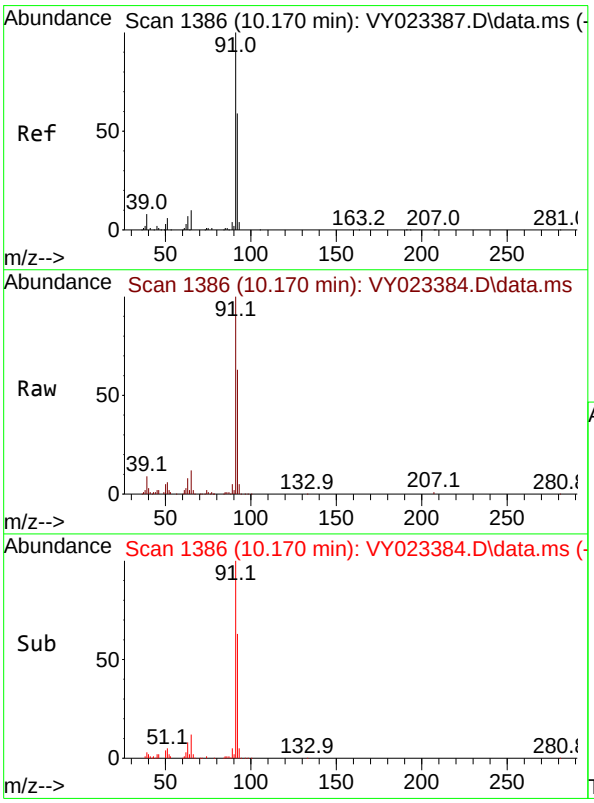
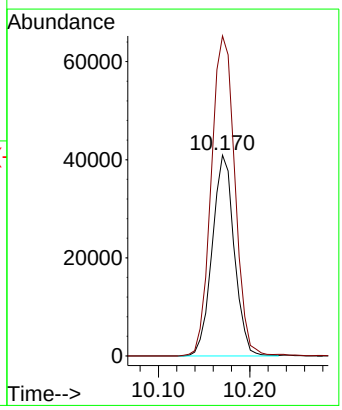
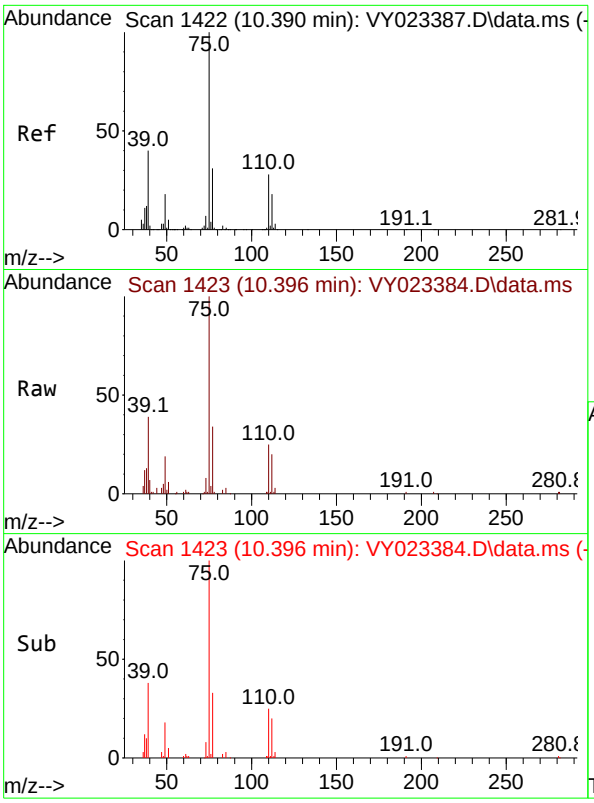



#52
Toluene
Concen: 4.585 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 92 Resp: 68550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.2 | 136.4 | 204.6 |

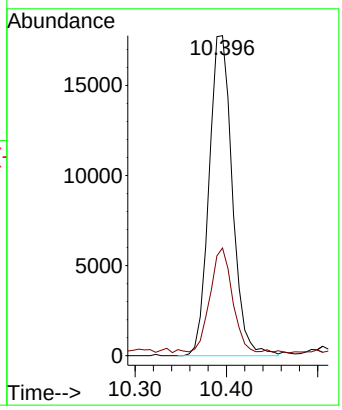





#53
t-1,3-Dichloropropene
Concen: 4.491 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 75 Resp: 3147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 25.1 | 37.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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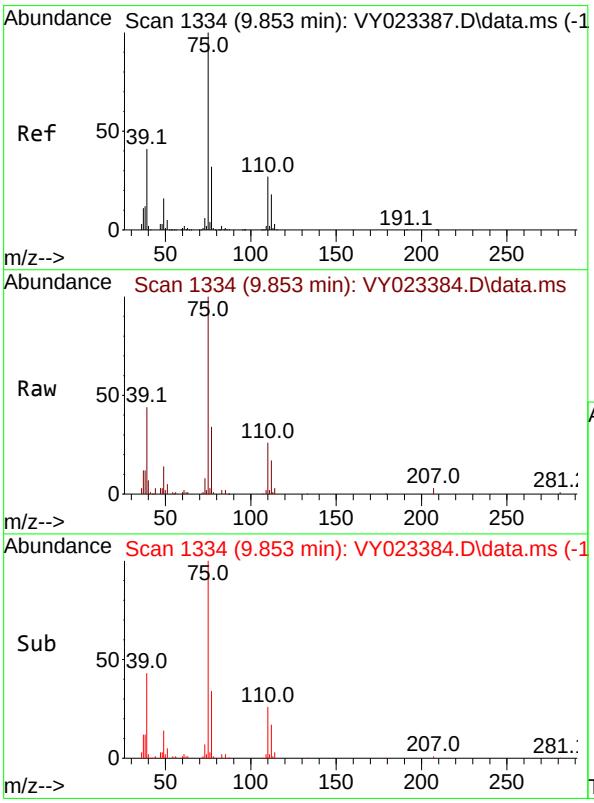
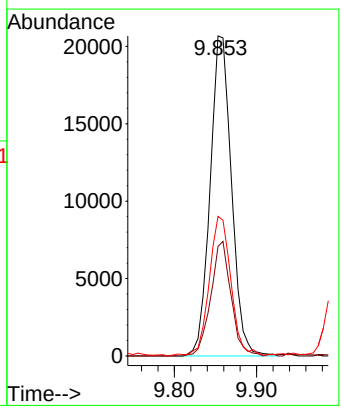
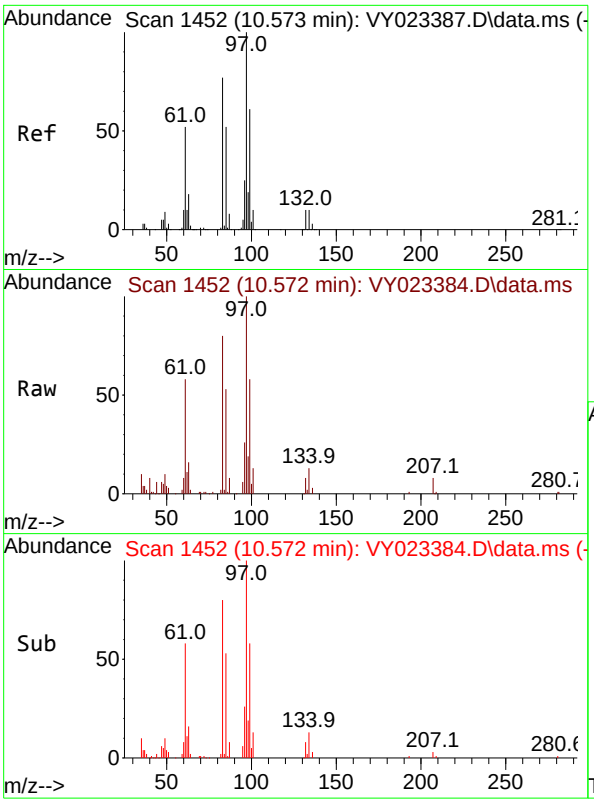



#54
cis-1,3-Dichloropropene
Concen: 4.463 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 75 Resp: 37392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 34.2 | 25.4 | 38.0 |
| 39 | 43.0 | 32.8 | 49.2 |

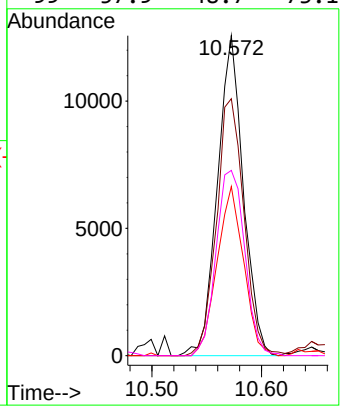





#55
1,1,2-Trichloroethane
Concen: 4.786 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 97 Resp: 2064

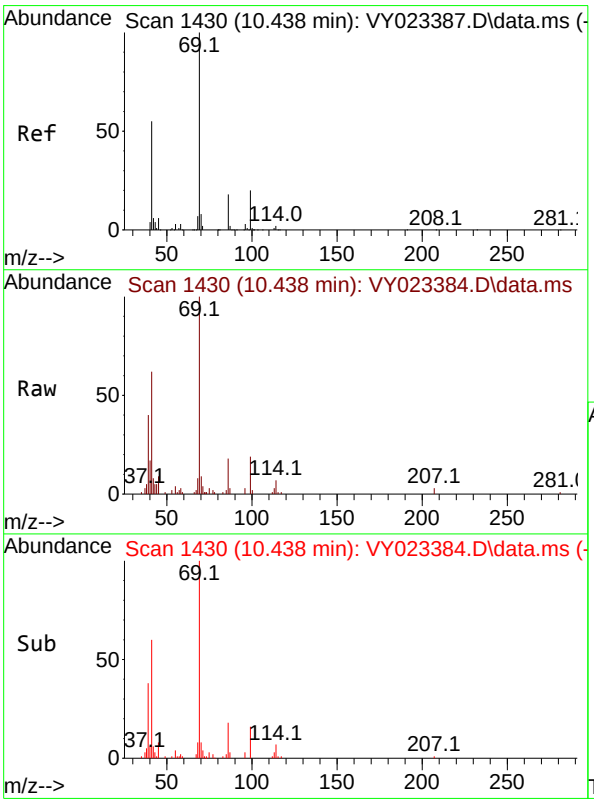
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 80.3 | 61.8 | 92.6 |
| 85 | 52.8 | 41.3 | 61.9 |
| 99 | 57.9 | 48.7 | 73.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

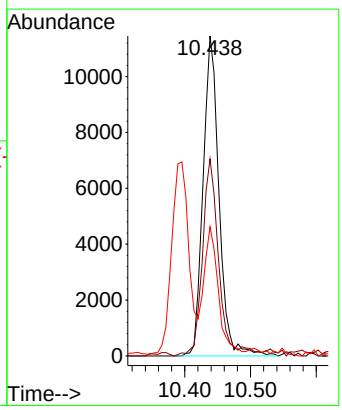
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

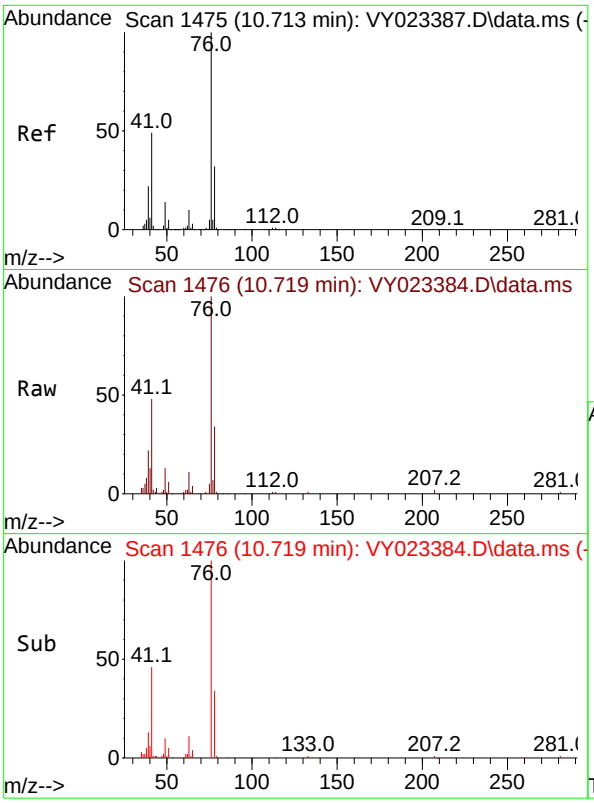



#56
Ethyl methacrylate
Concen: 3.891 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 69 Resp: 19324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 60.6 | 44.6 | 67.0 |
| 39 | 36.2 | 27.0 | 40.4 |






#57
1,3-Dichloropropane
Concen: 4.560 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

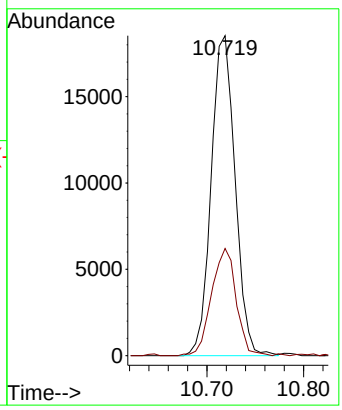
Tgt Ion: 76 Resp: 3183

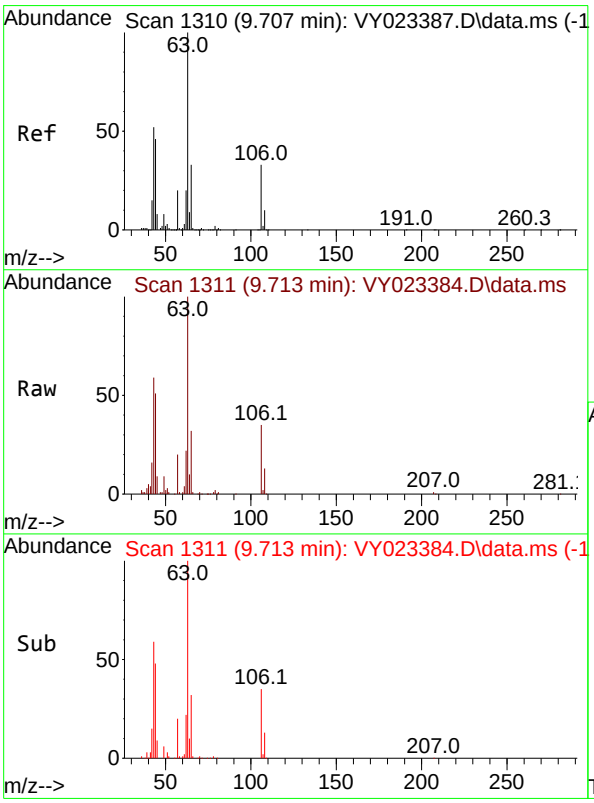
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 34.4 | 25.9 | 38.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

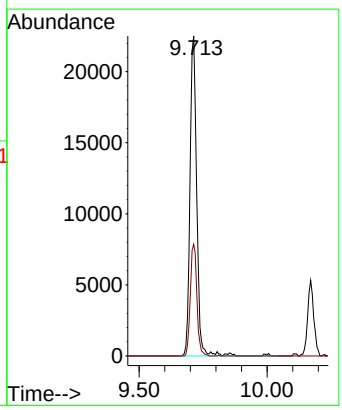


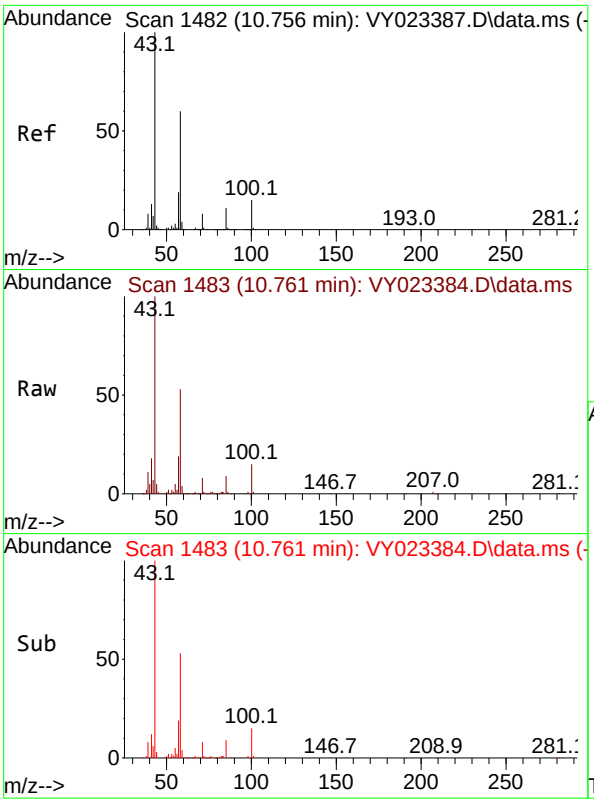




#58
2-Chloroethyl Vinyl ether
Concen: 18.894 ug/l m
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 63 Resp: 41054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 34.1 | 26.6 | 39.8 |






#59
2-Hexanone
Concen: 23.185 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

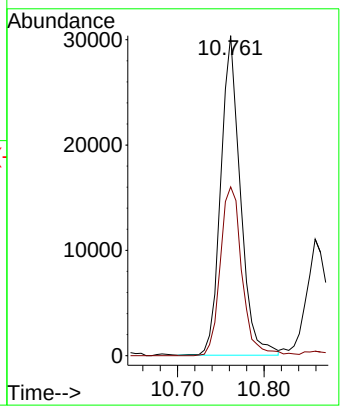
Tgt Ion: 43 Resp: 4777

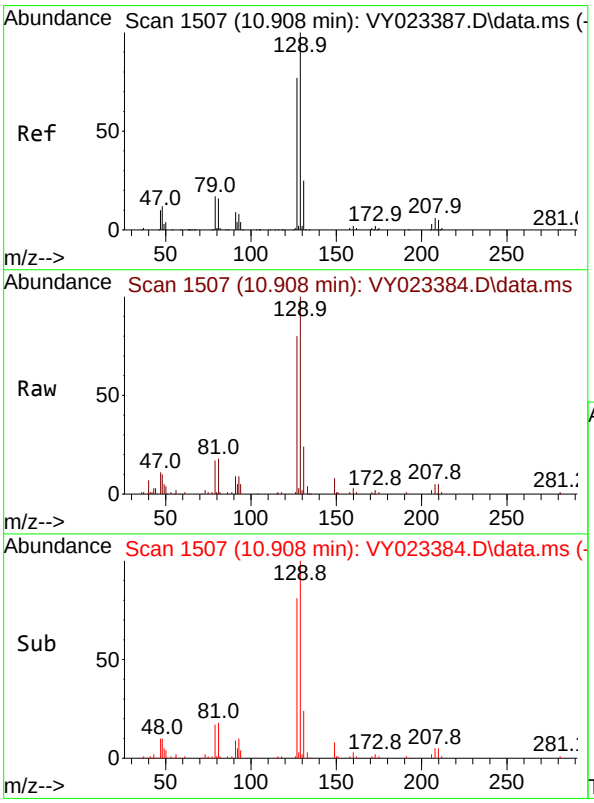
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.4 | 30.5 | 91.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

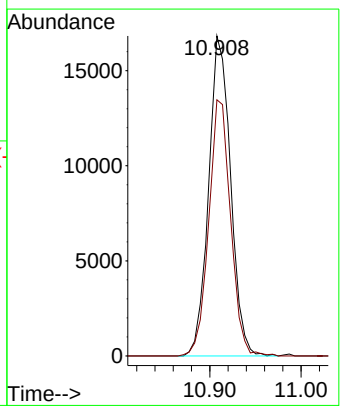


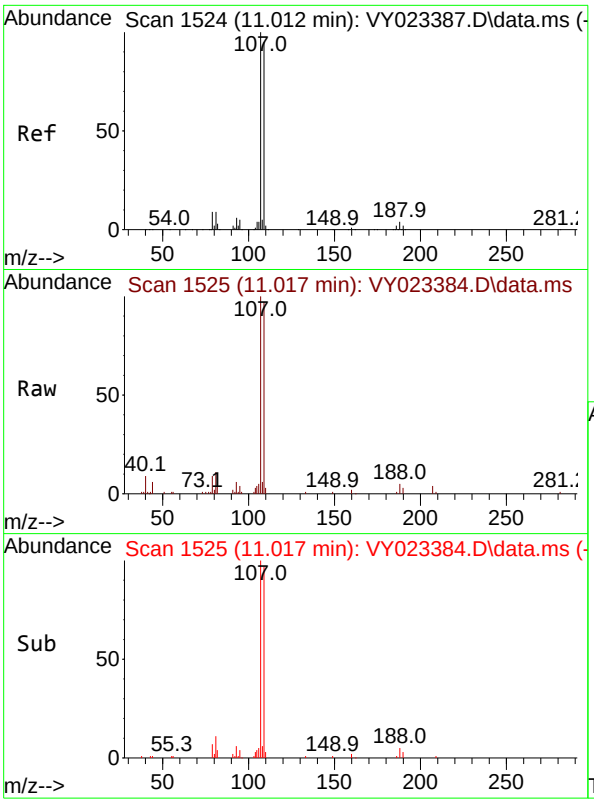




#60
Dibromochloromethane
Concen: 4.783 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:129 Resp: 28135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 79.7 | 38.6 | 115.7 |

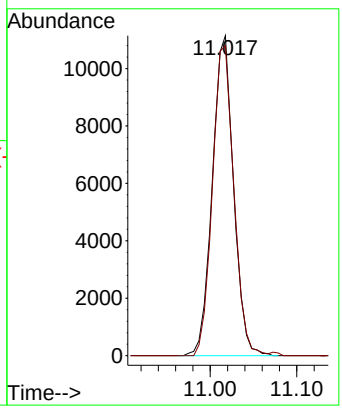





#61
1,2-Dibromoethane
Concen: 4.673 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:107 Resp: 1895

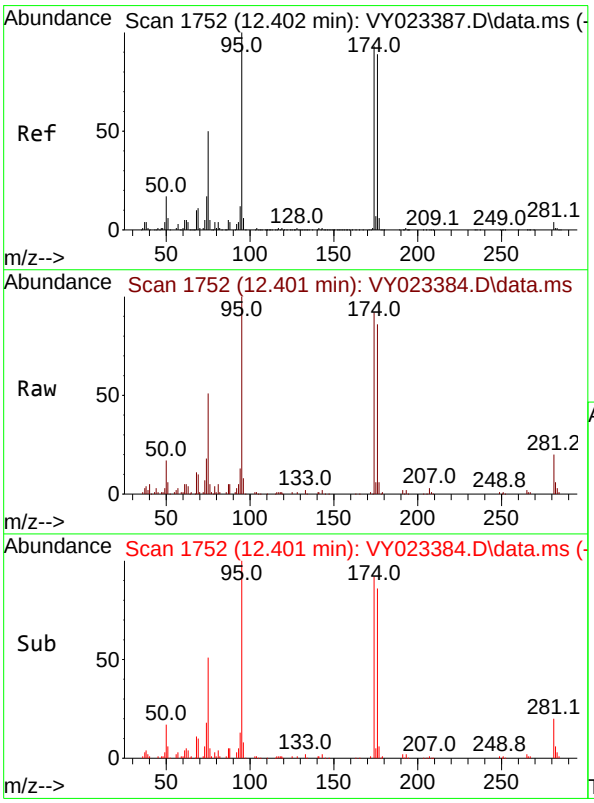
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 97.6 | 76.1 | 114.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

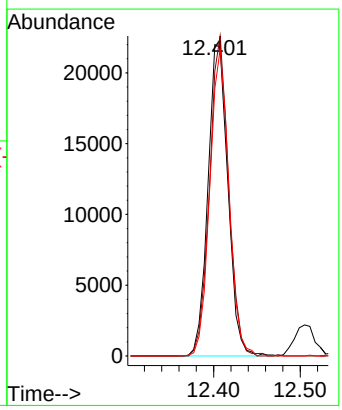
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

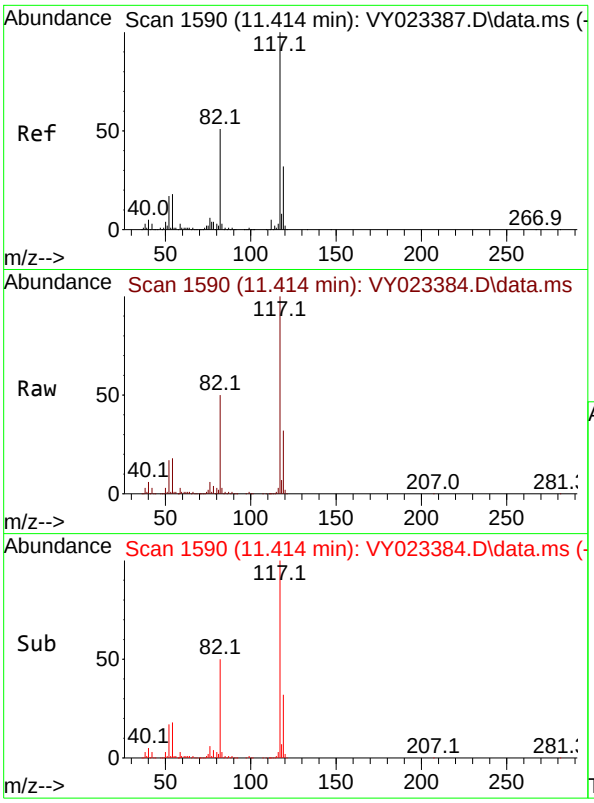



#62
4-Bromofluorobenzene
Concen: 5.548 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 95 Resp: 35355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 97.9 | 0.0 | 192.8 |
| 176 | 94.0 | 0.0 | 187.6 |

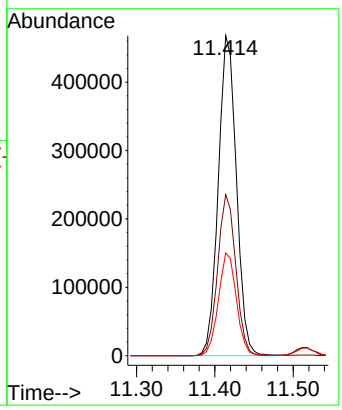





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:117 Resp: 75339

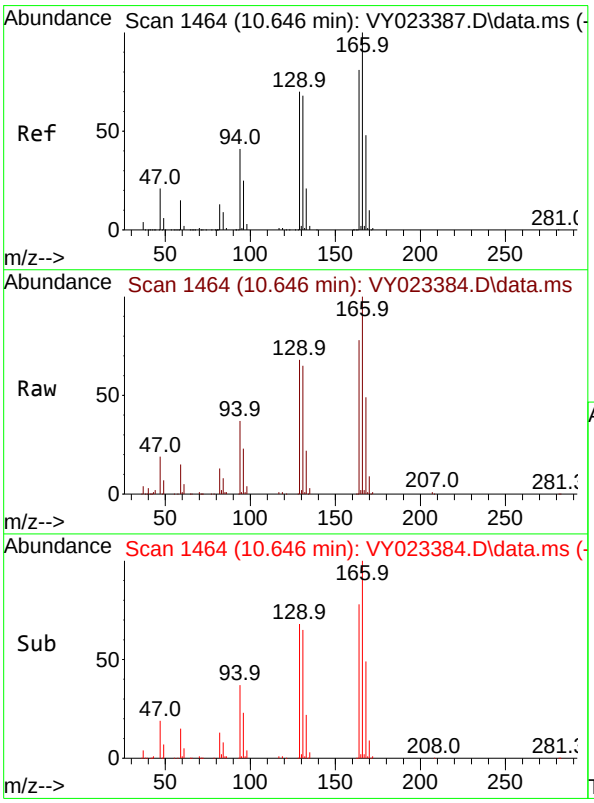
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.3 | 41.0 | 61.4 |
| 119 | 32.1 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

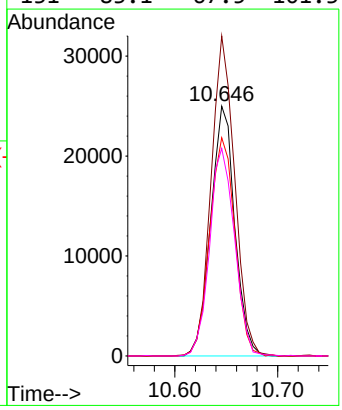
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

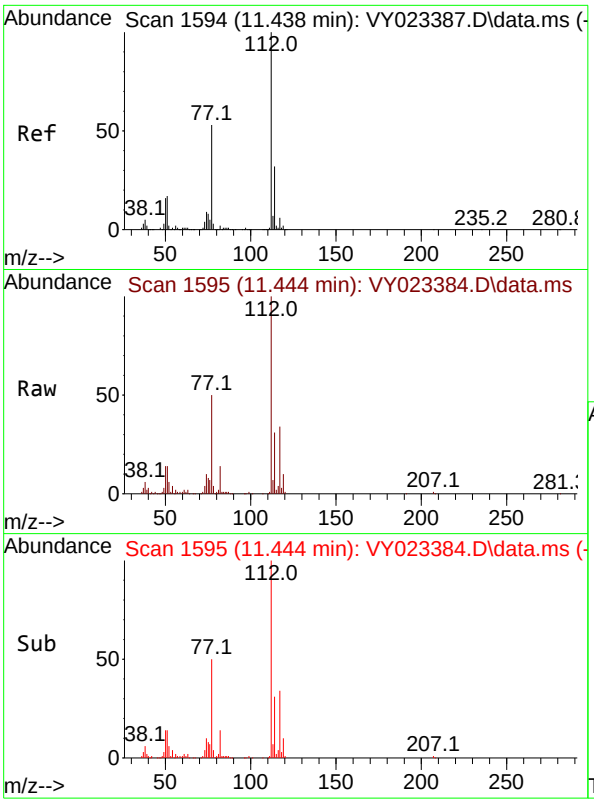



#64
Tetrachloroethene
Concen: 5.383 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:164 Resp: 40570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.1 | 99.4 | 149.0 |
| 129 | 87.4 | 69.4 | 104.2 |
| 131 | 83.1 | 67.5 | 101.3 |

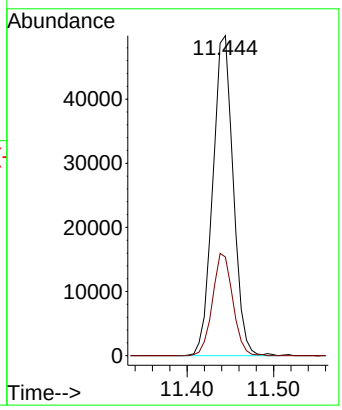





#65
Chlorobenzene
Concen: 4.997 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:112 Resp: 8180

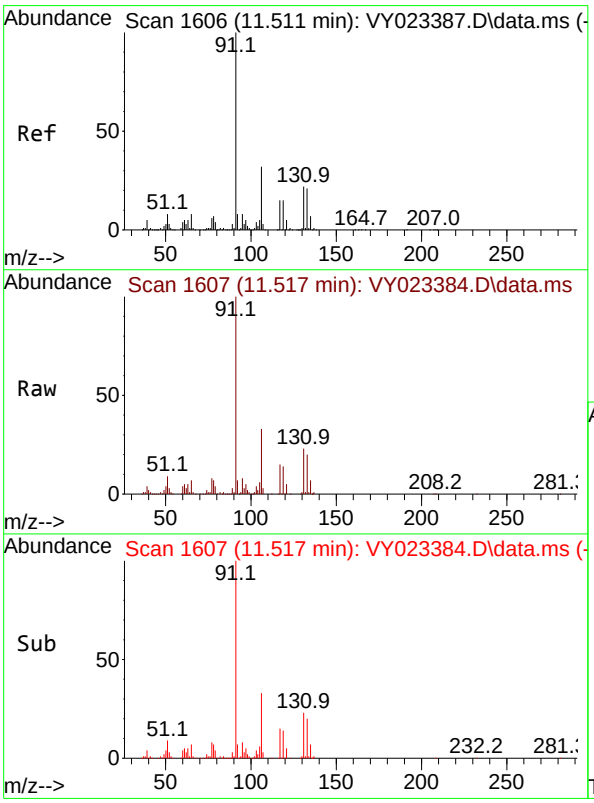
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 30.8 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

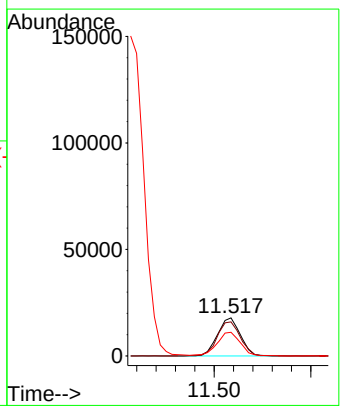
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

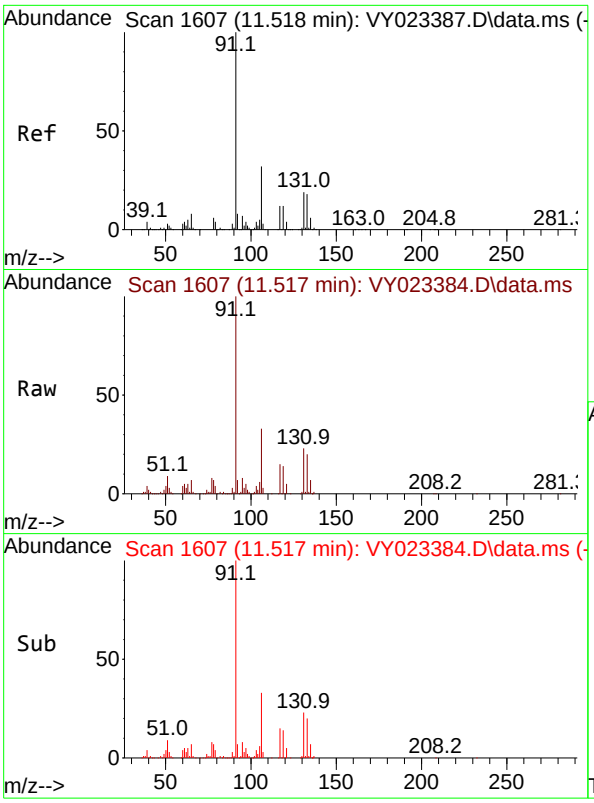



#66
1,1,1,2-Tetrachloroethane
Concen: 5.075 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:131 Resp: 29222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 91.7 | 48.4 | 145.2 |
| 119 | 64.1 | 32.4 | 97.2 |

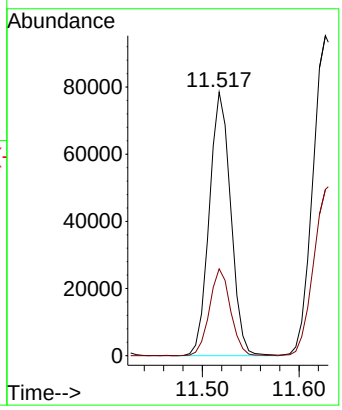





#67
Ethyl Benzene
Concen: 4.529 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 91 Resp: 12100

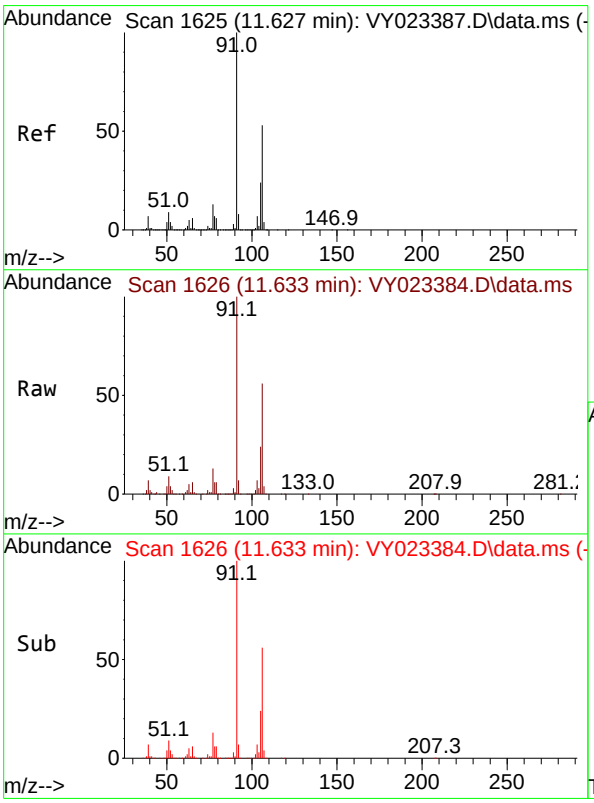
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 33.0 | 25.8 | 38.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

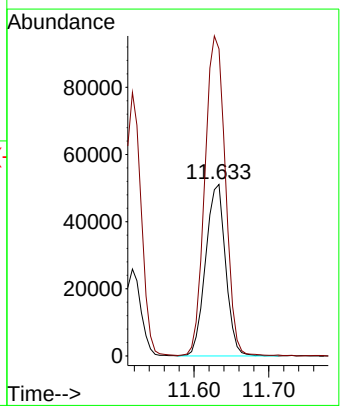
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

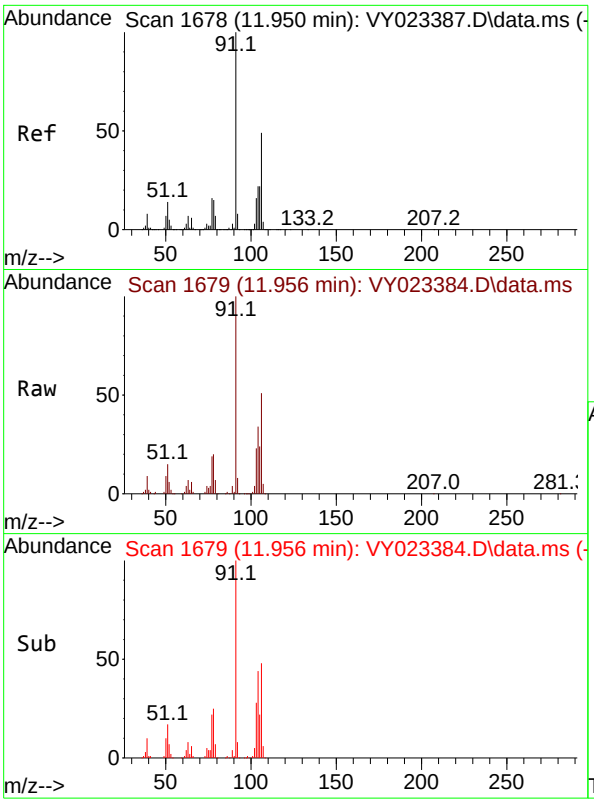



#68
m/p-Xylenes
Concen: 8.887 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:106 Resp: 95176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 190.5 | 152.6 | 229.0 |






#69
o-Xylene
Concen: 4.466 ug/l
RT: 11.956 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:106 Resp: 4428(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 199.7 | 101.4 | 304.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

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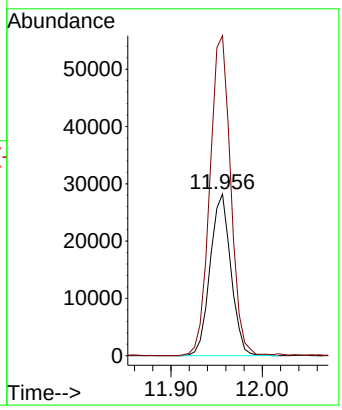
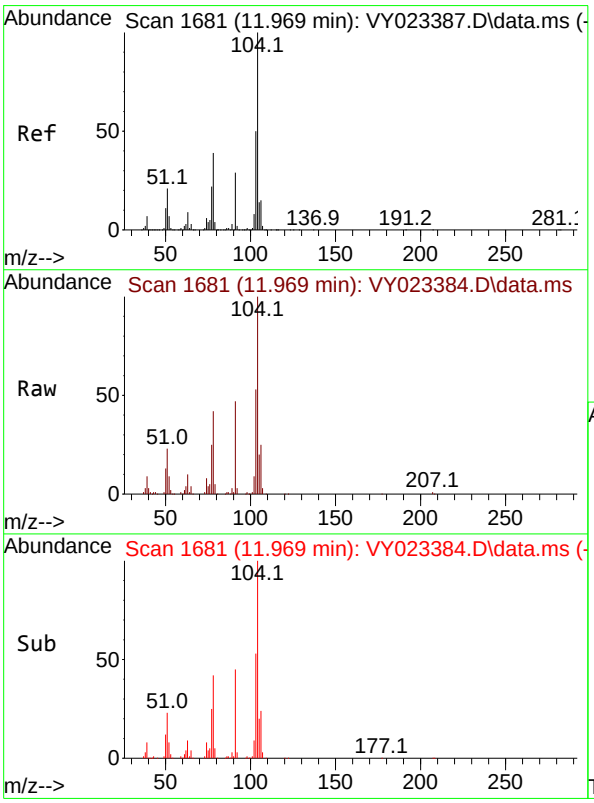
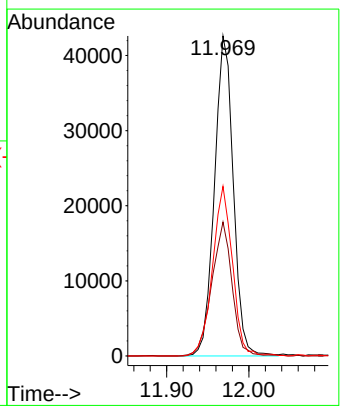


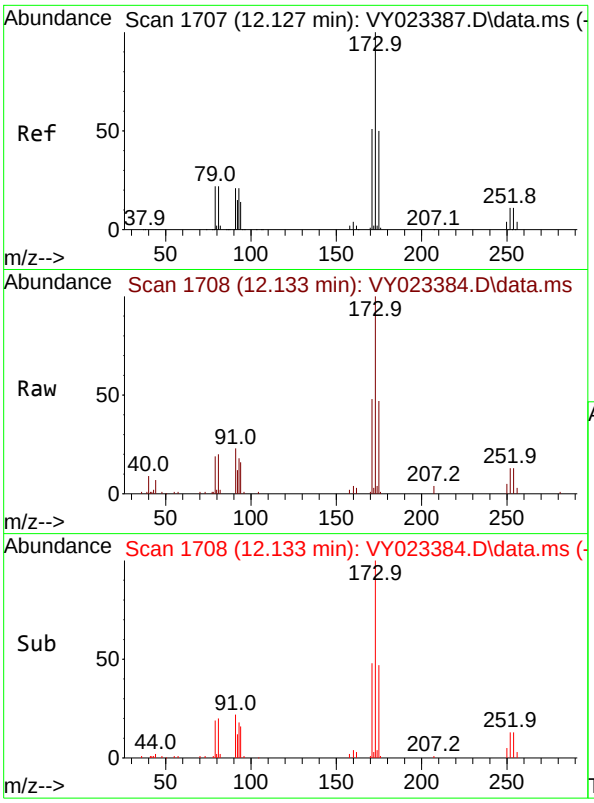




#70
Styrene
Concen: 4.152 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:104 Resp: 67960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 45.1 | 36.1 | 54.1 |
| 103 | 55.9 | 43.2 | 64.8 |

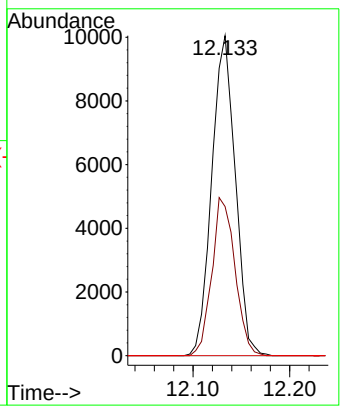





#71
Bromoform
Concen: 4.929 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:173 Resp: 1698

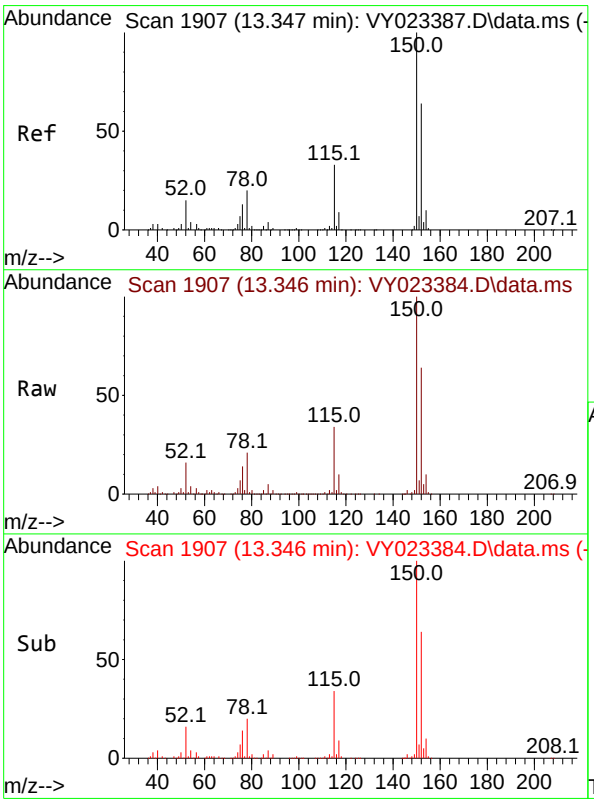
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 24.8 | 74.3 |
| 254 | 0.0 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

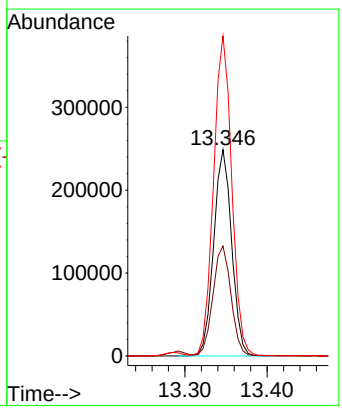
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

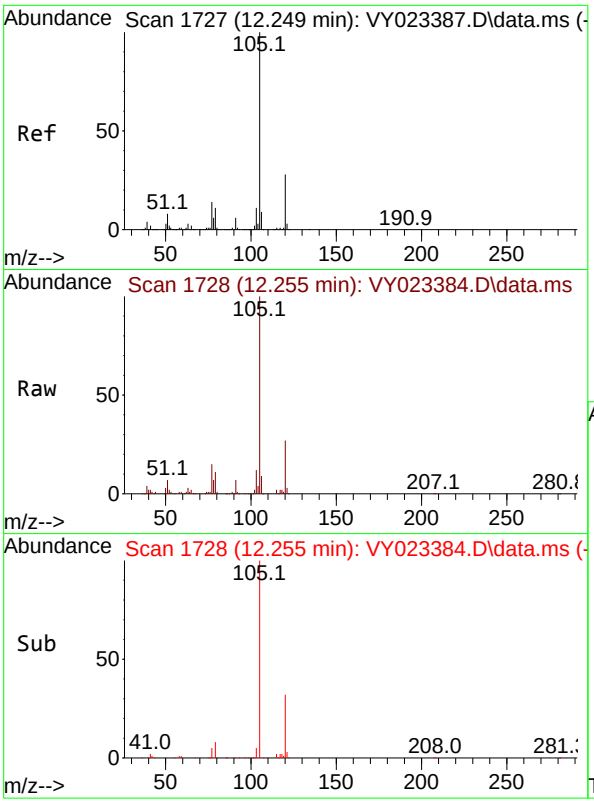



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:152 Resp: 378104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 53.5 | 27.1 | 81.2 |
| 150 | 156.6 | 0.0 | 347.4 |

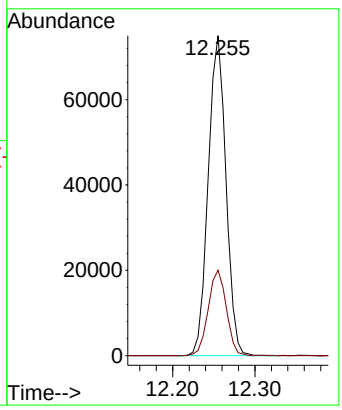





#73
Isopropylbenzene
Concen: 4.455 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:105 Resp: 11219

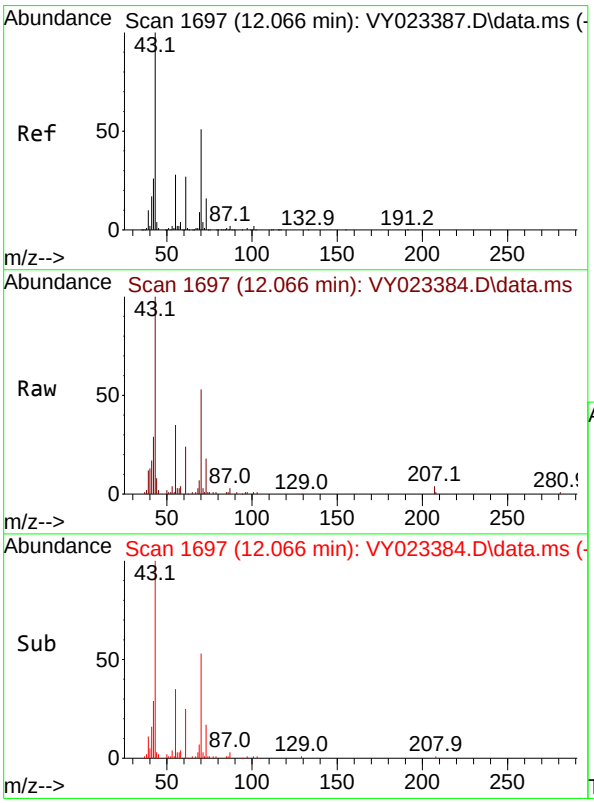
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.2 | 13.9 | 41.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

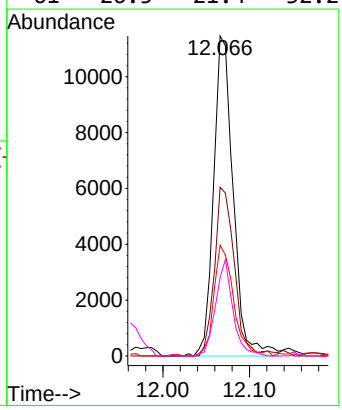
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

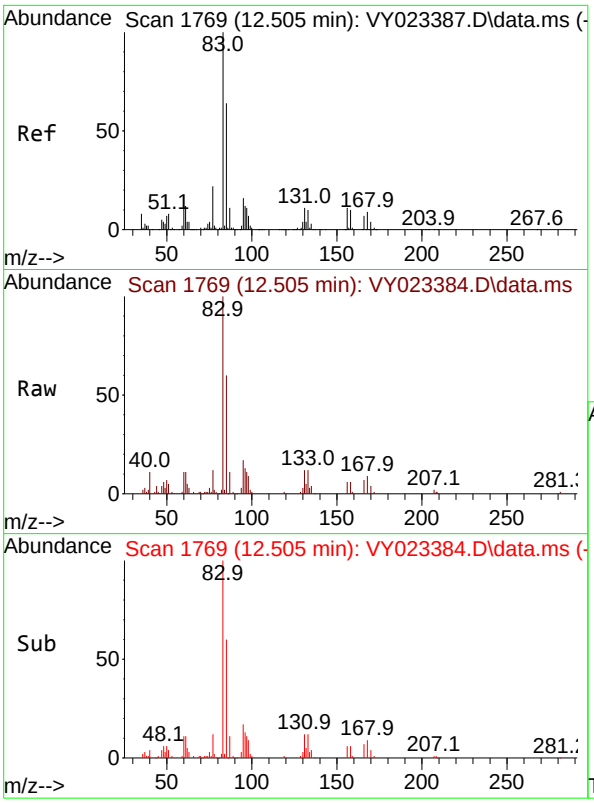



#74
N-amyl acetate
Concen: 3.833 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 18041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 53.0 | 41.1 | 61.7 |
| 55 | 35.3 | 23.0 | 34.6# |
| 61 | 26.5 | 21.4 | 32.2 |

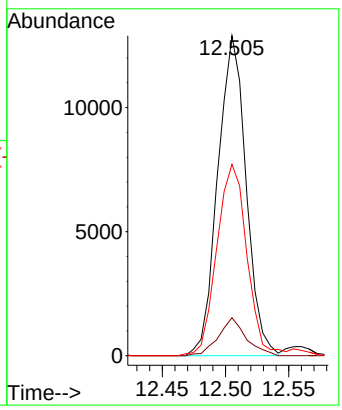





#75
1,1,2,2-Tetrachloroethane
Concen: 4.773 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 83 Resp: 2005

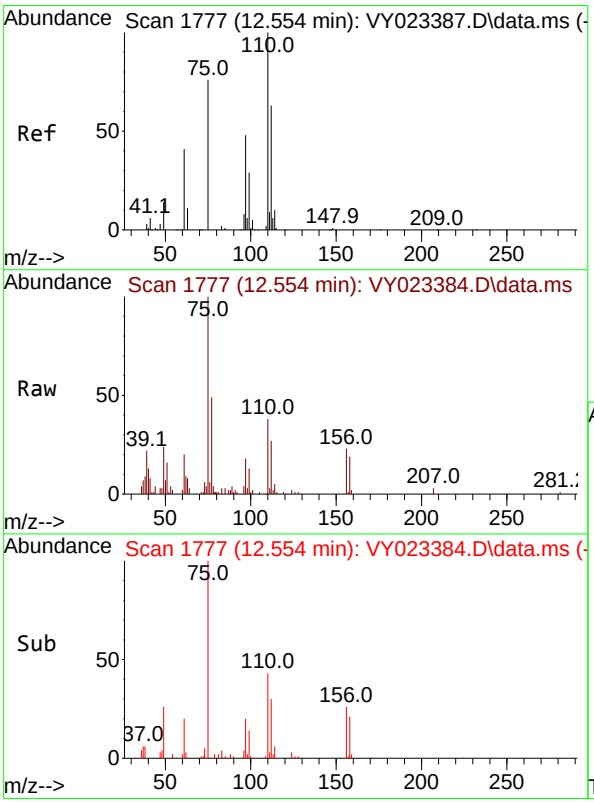
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.6 | 5.9 | 17.6 |
| 85 | 63.4 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

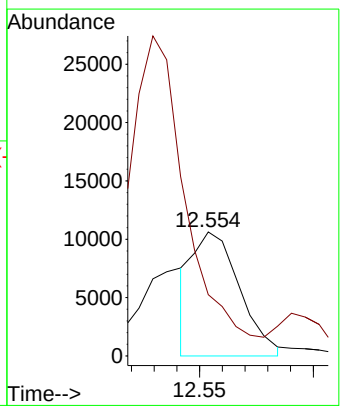
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

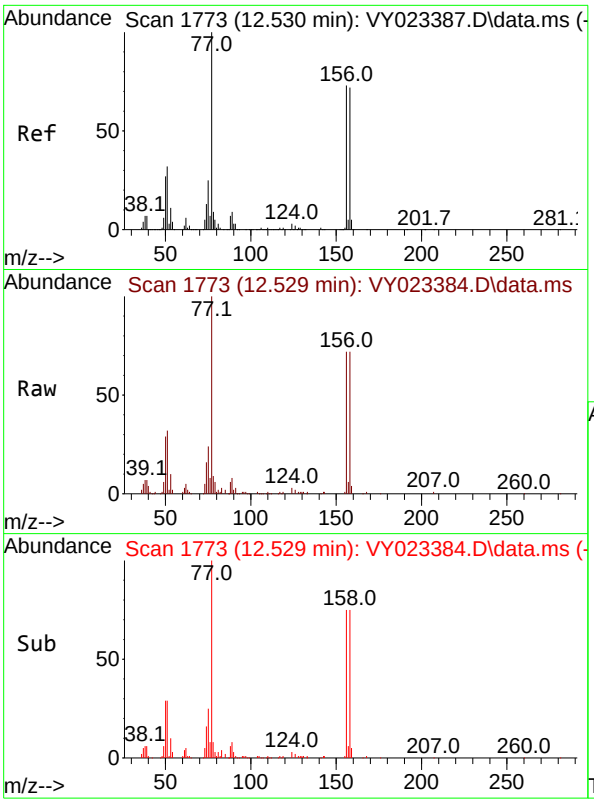



#76
1,2,3-Trichloropropane
Concen: 4.118 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 75 Resp: 15359

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

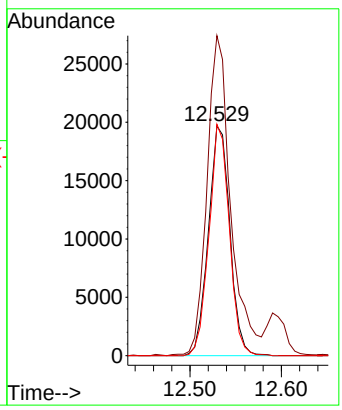





#77
Bromobenzene
Concen: 4.967 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:156 Resp: 3210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 154.2 | 76.8 | 230.5 |
| 158 | 95.0 | 49.0 | 147.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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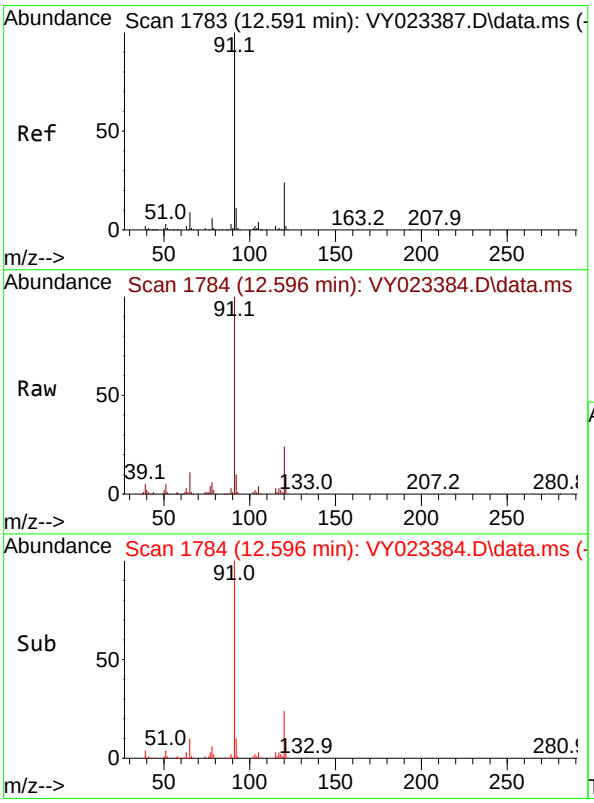
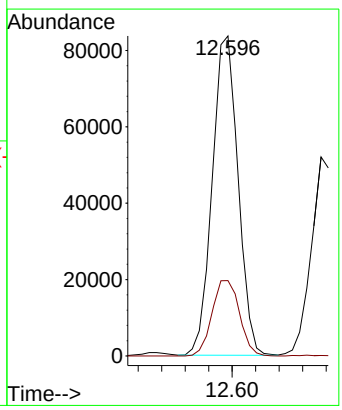
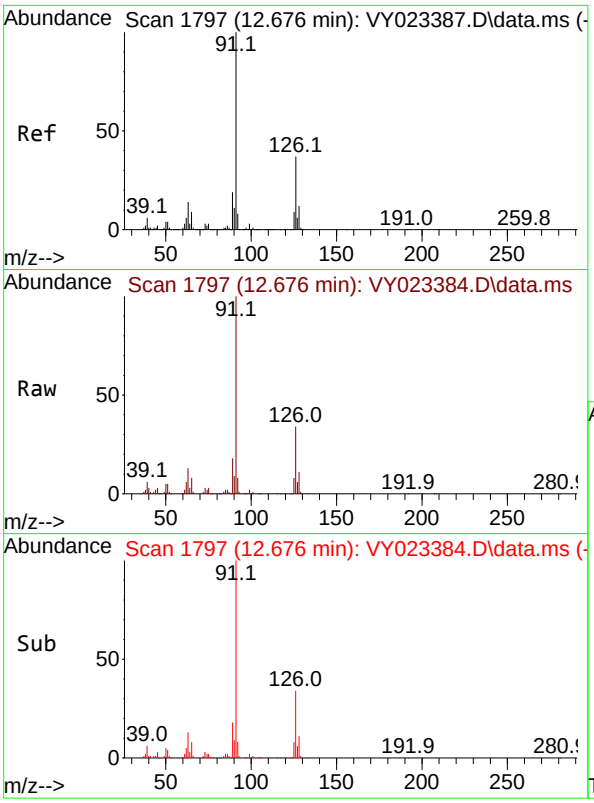



#78
n-propylbenzene
Concen: 4.305 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 91 Resp: 127521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 25.1 | 12.3 | 36.8 |

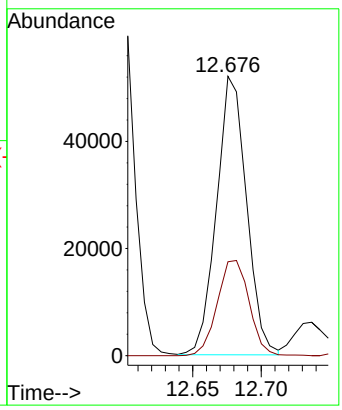





#79
2-Chlorotoluene
Concen: 4.631 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 91 Resp: 7919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.4 | 18.5 | 55.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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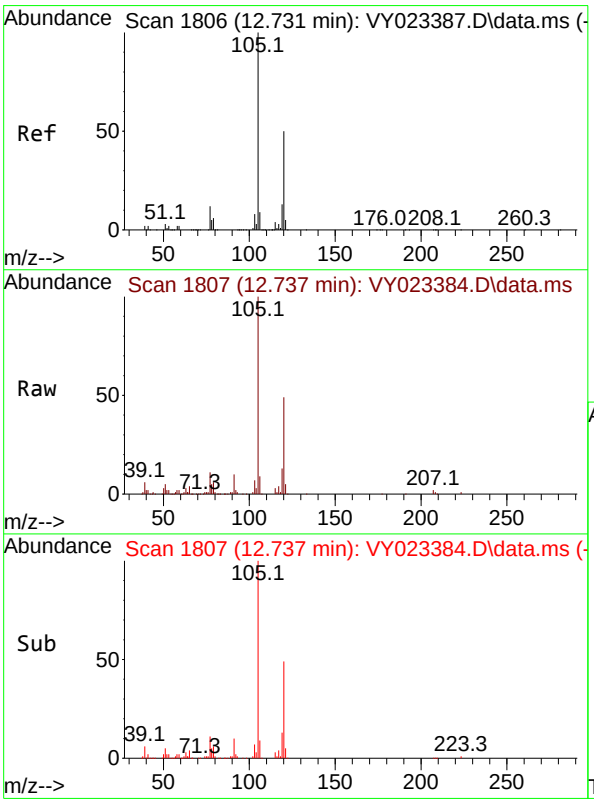
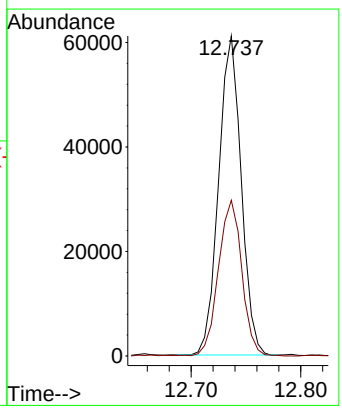
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

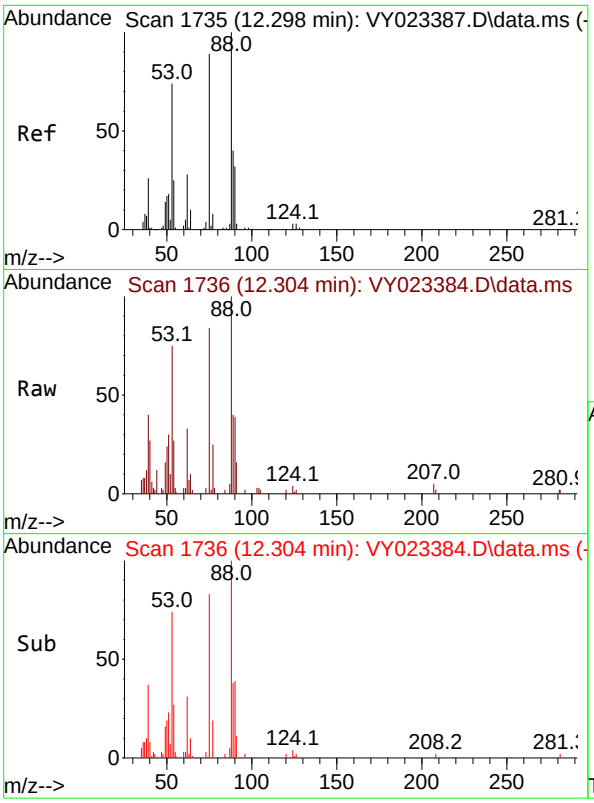



#80
1,3,5-Trimethylbenzene
Concen: 4.264 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:105 Resp: 87297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.6 | 25.4 | 76.4 |

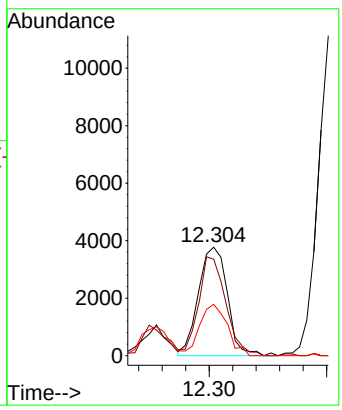





#81
trans-1,4-Dichloro-2-butene
Concen: 4.680 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 75 Resp: 647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 85.6 | 68.6 | 102.8 |
| 89 | 44.4 | 39.0 | 58.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 10/10/2025
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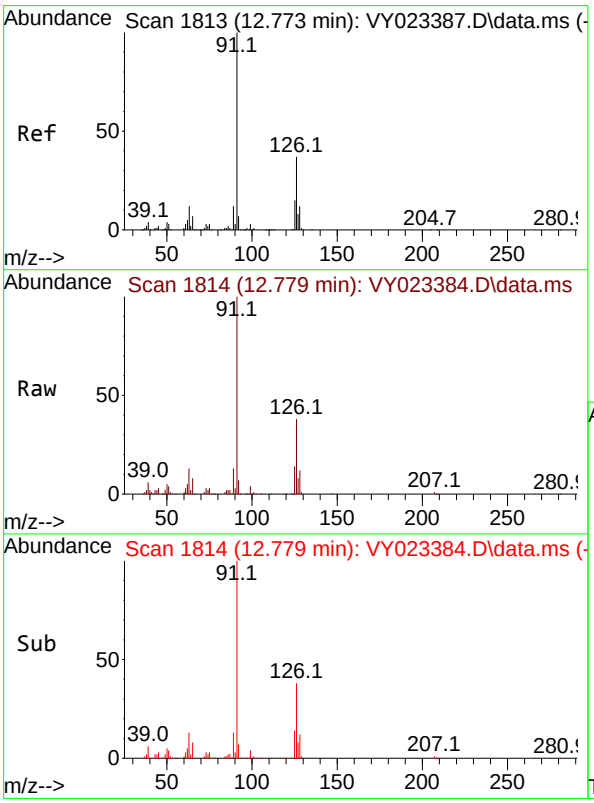
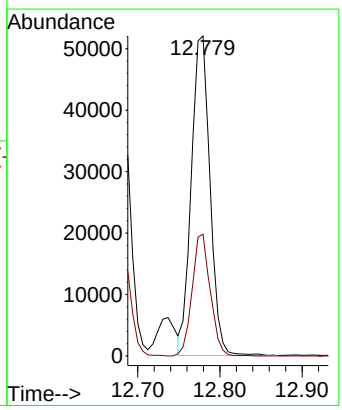
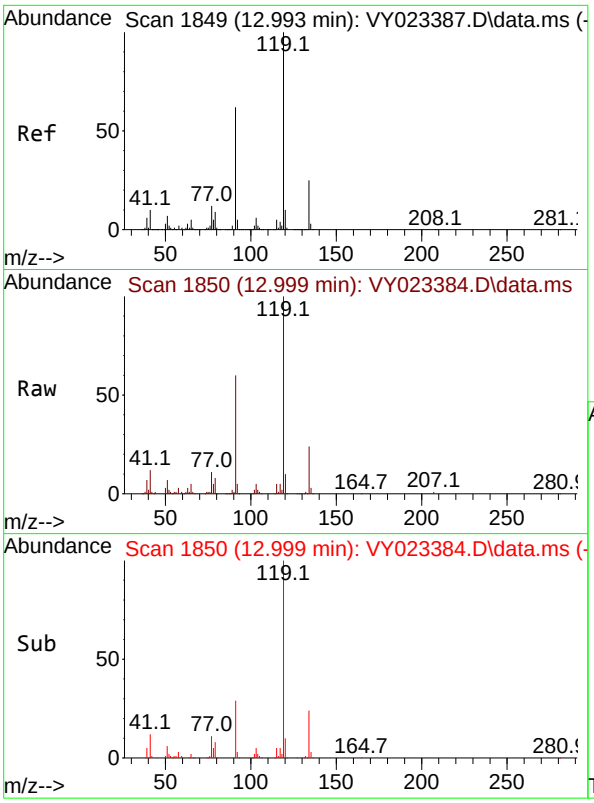



#82
4-Chlorotoluene
Concen: 4.600 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 91 Resp: 82155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.9 | 18.4 | 55.4 |

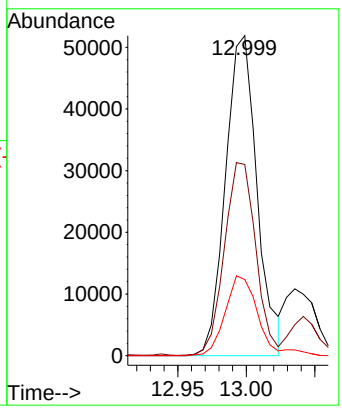





#83
tert-Butylbenzene
Concen: 4.457 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:119 Resp: 8315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 60.0 | 29.9 | 89.8 |
| 134 | 26.2 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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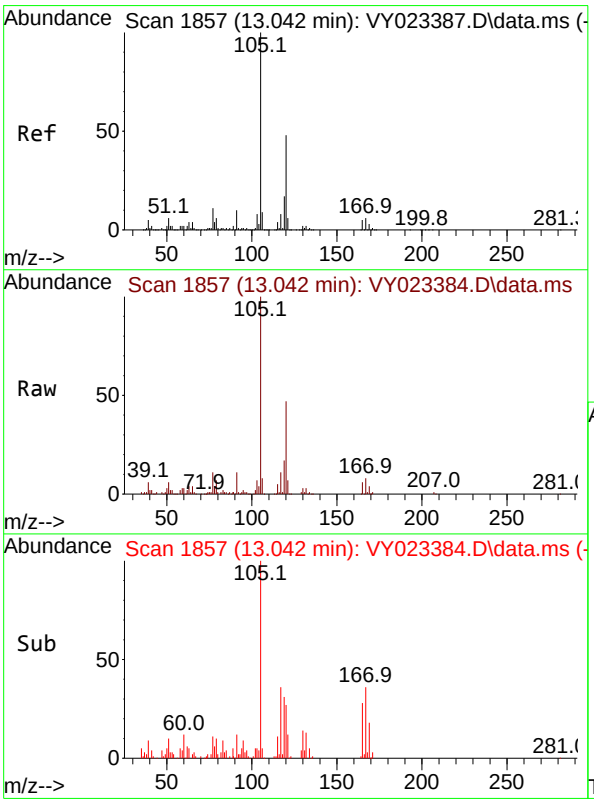
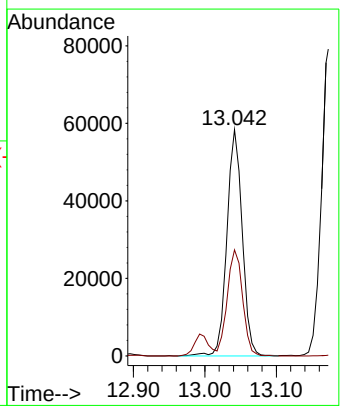
Supervised By :Mahesh Dadoda 10/10/2025

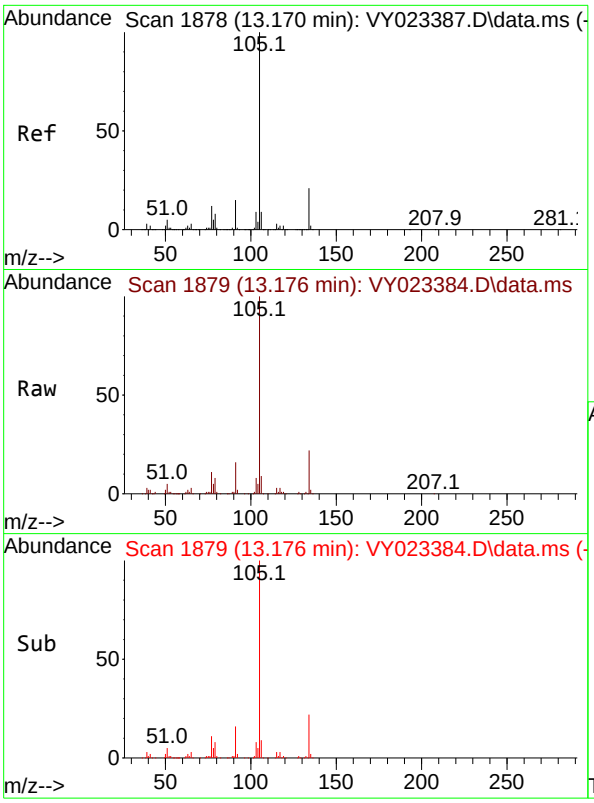



#84
1,2,4-Trimethylbenzene
Concen: 4.294 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:105 Resp: 86988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.8 | 23.8 | 71.2 |

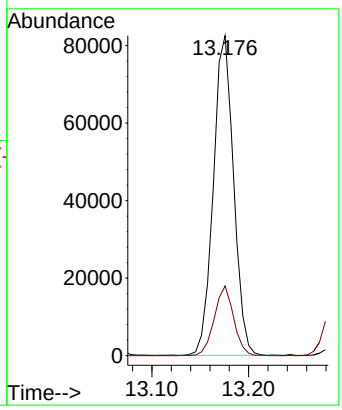





#85
sec-Butylbenzene
Concen: 4.443 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:105 Resp: 12006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.9 | 10.7 | 32.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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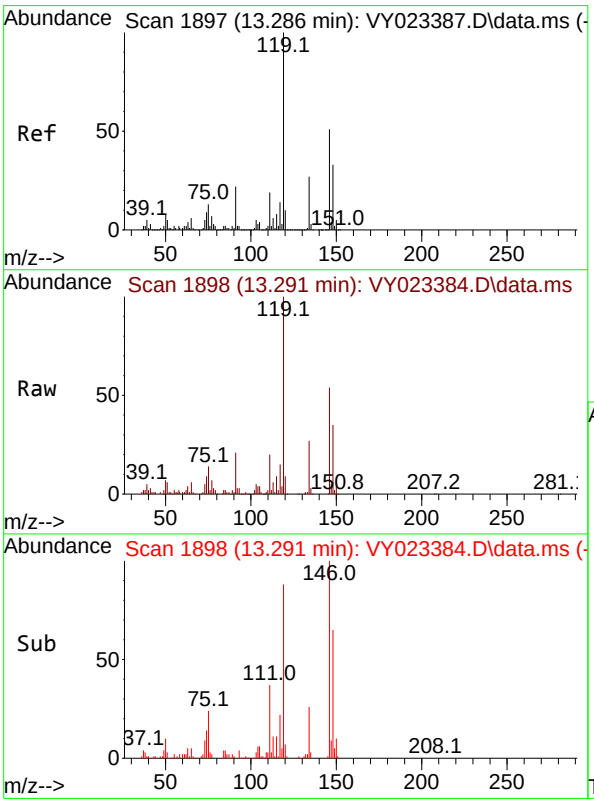
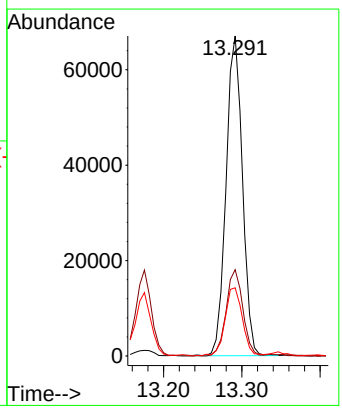
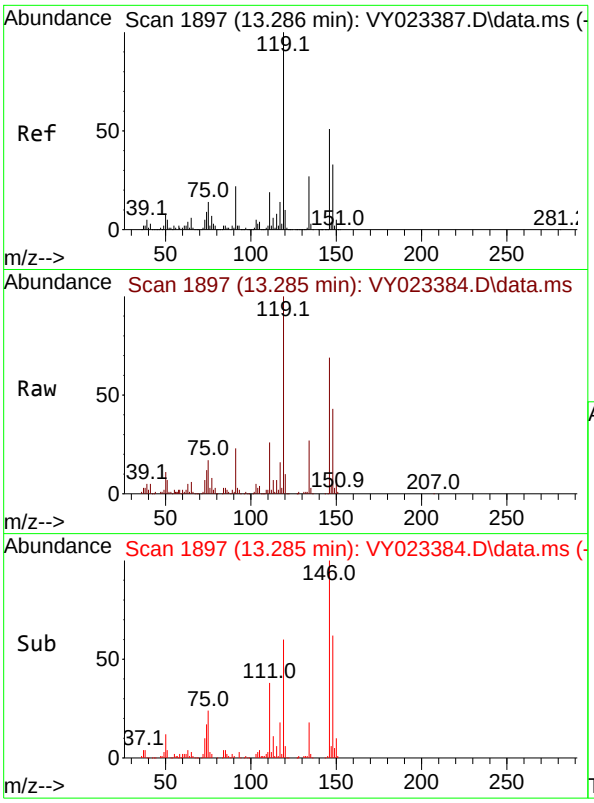



#86
p-Isopropyltoluene
Concen: 4.264 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:119 Resp: 97377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 27.5 | 13.6 | 40.7 |
| 91 | 22.7 | 10.9 | 32.9 |

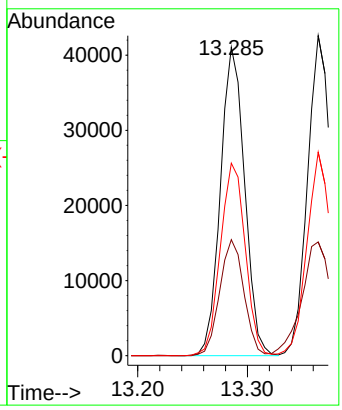





#87
1,3-Dichlorobenzene
Concen: 4.936 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:146 Resp: 6302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.5 | 18.7 | 56.1 |
| 148 | 64.1 | 31.9 | 95.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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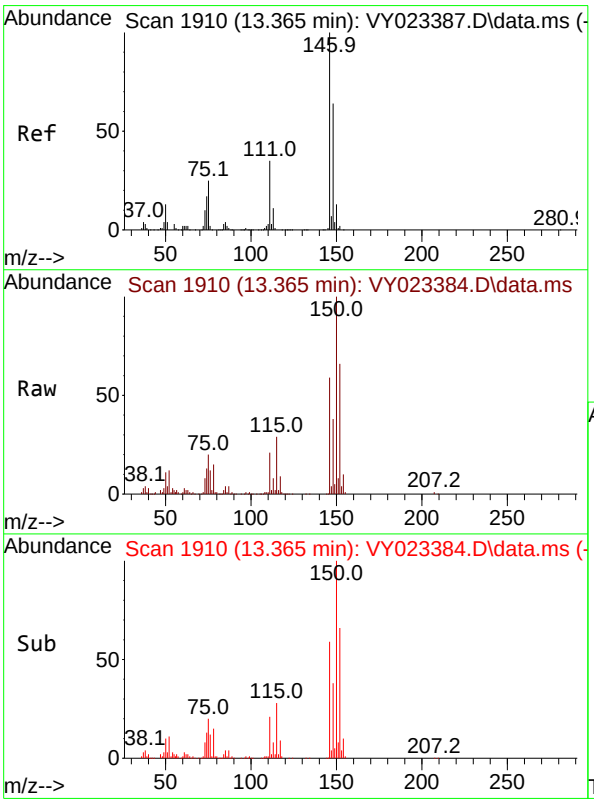
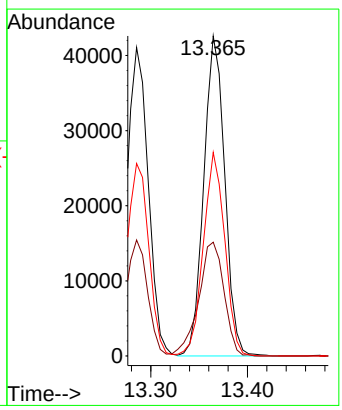
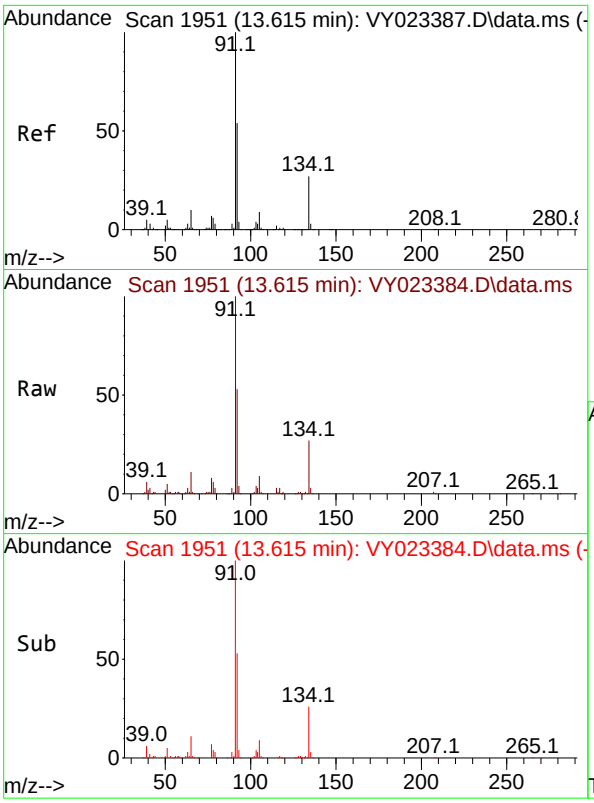



#88
1,4-Dichlorobenzene
Concen: 5.085 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:146 Resp: 64389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.0 | 18.0 | 54.0 |
| 148 | 65.1 | 31.9 | 95.7 |

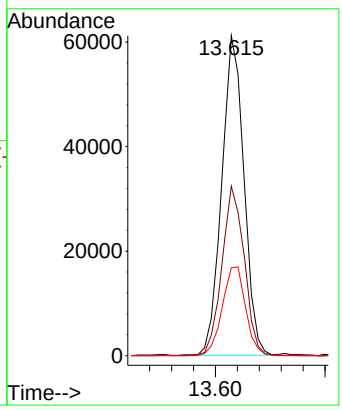





#89
n-Butylbenzene
Concen: 4.274 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 91 Resp: 8617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.3 | 27.0 | 80.8 |
| 134 | 29.2 | 14.1 | 42.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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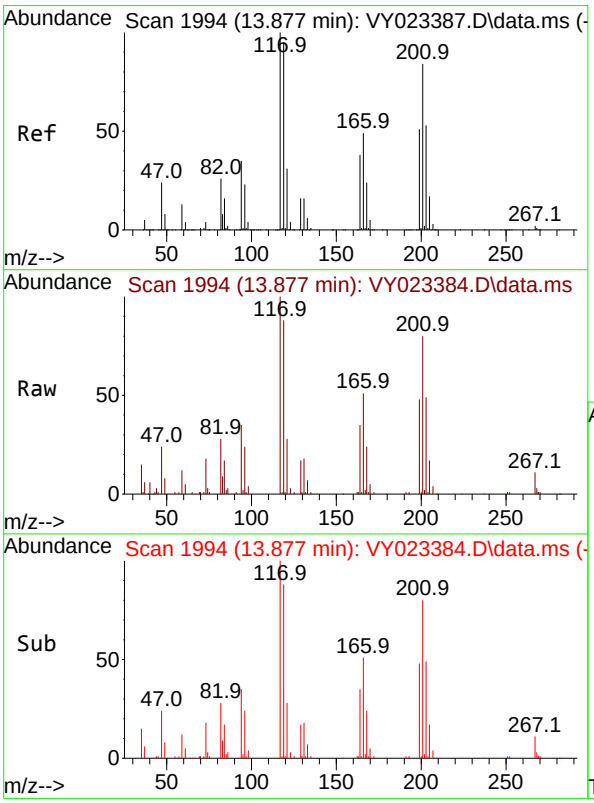
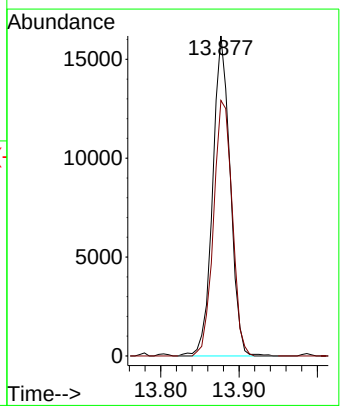
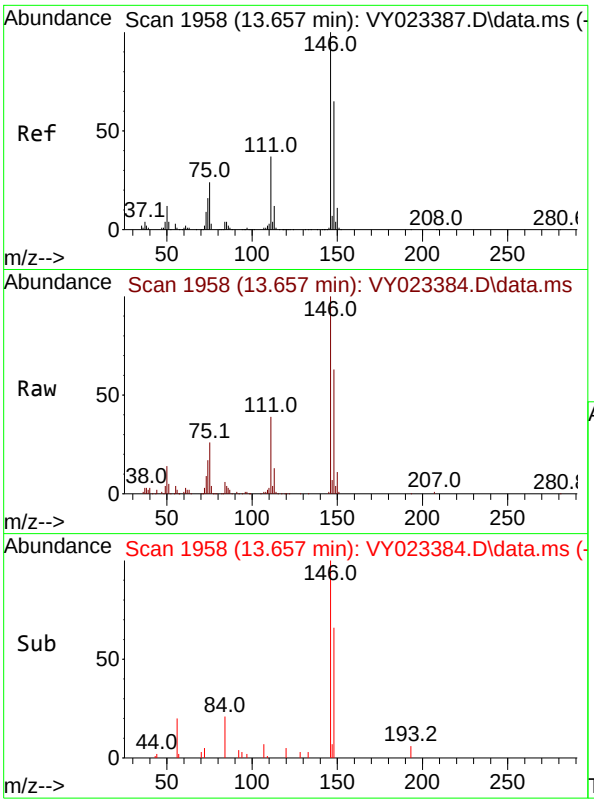



#90
Hexachloroethane
Concen: 5.084 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:117 Resp: 25204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 84.7 | 43.8 | 131.4 |

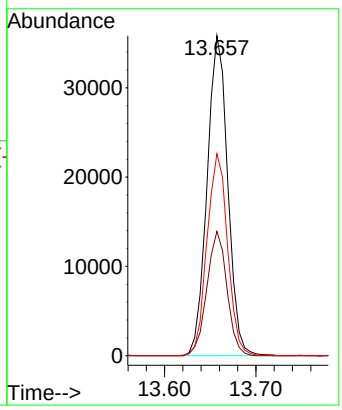





#91
1,2-Dichlorobenzene
Concen: 5.041 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:146 Resp: 5616

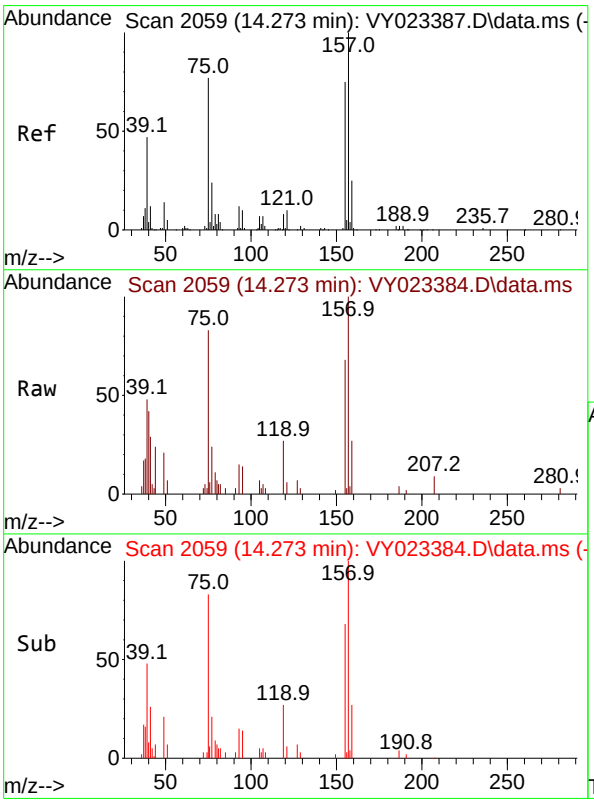
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.8 | 19.0 | 57.0 |
| 148 | 63.0 | 32.1 | 96.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

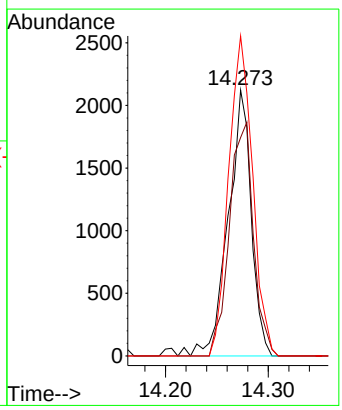
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

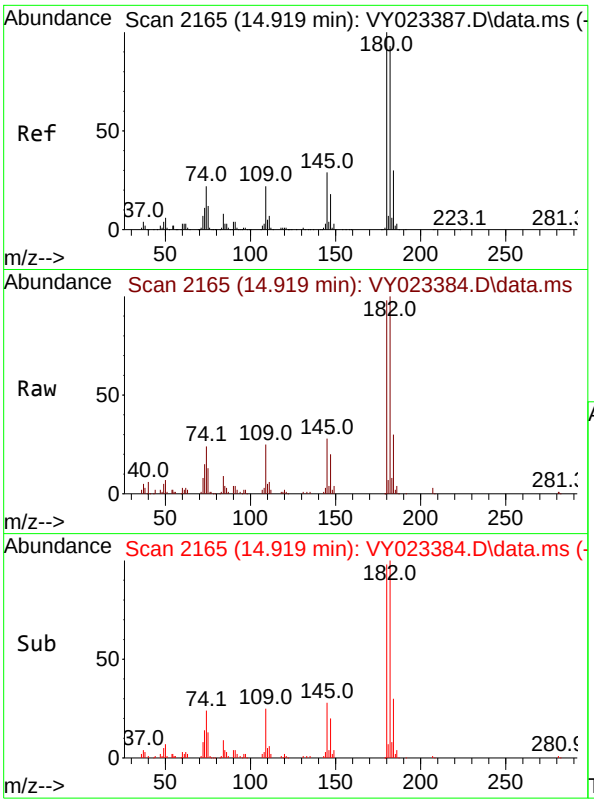



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.964 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 75 Resp: 3305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 91.7 | 50.0 | 150.0 |
| 157 | 124.4 | 63.8 | 191.5 |

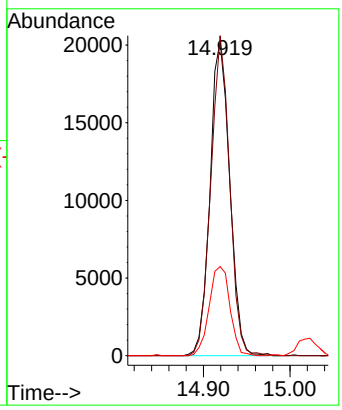





#93
1,2,4-Trichlorobenzene
Concen: 4.875 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:180 Resp: 3200

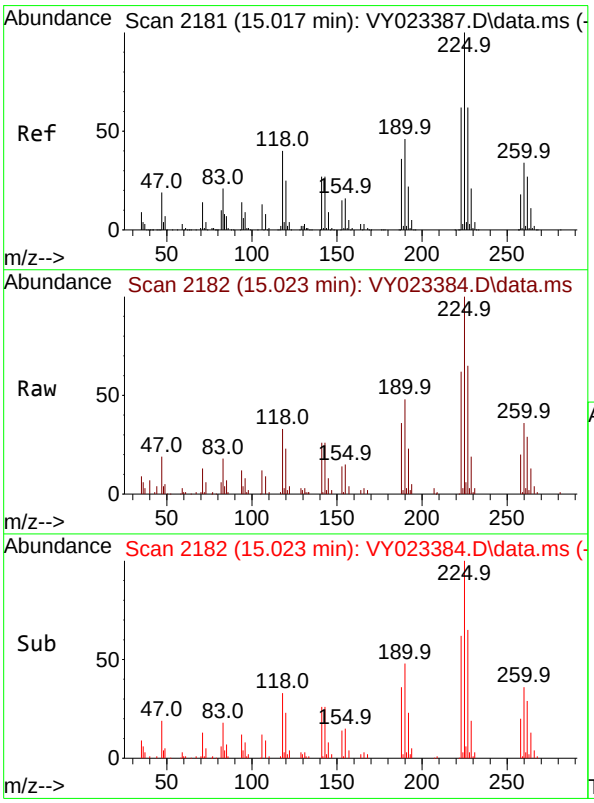
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.1 | 47.9 | 143.6 |
| 145 | 29.9 | 14.7 | 44.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

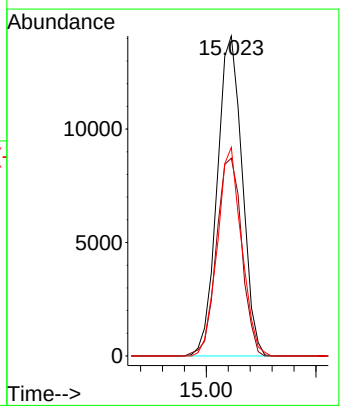
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

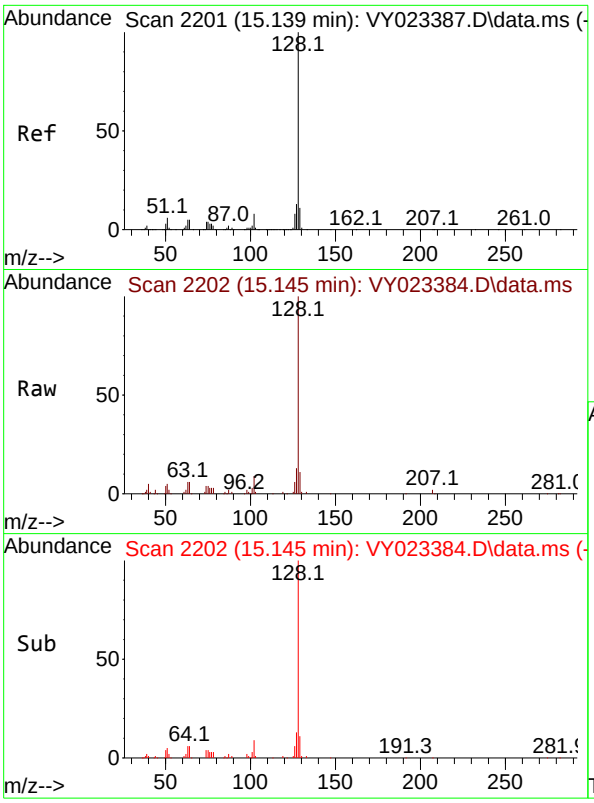



#94
Hexachlorobutadiene
Concen: 5.456 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:225 Resp: 22316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 30.8 | 92.3 |
| 227 | 63.1 | 31.9 | 95.7 |

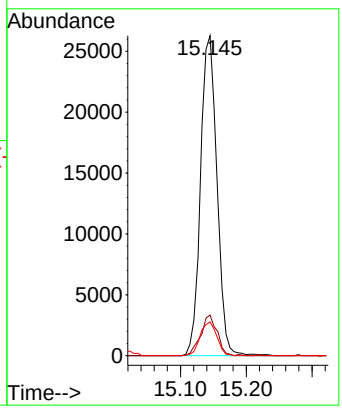





#95
Naphthalene
Concen: 4.360 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:128 Resp: 4559

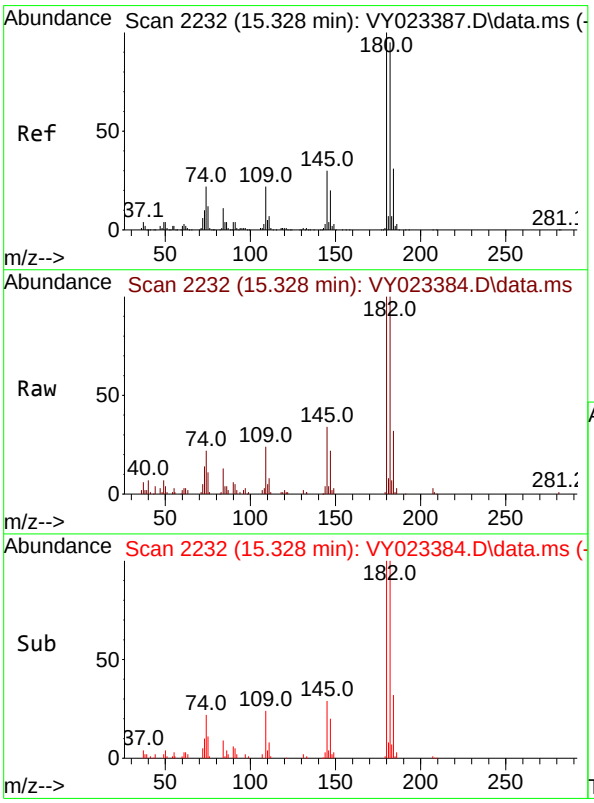
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.7 | 10.4 | 15.6 |
| 129 | 10.7 | 8.9 | 13.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

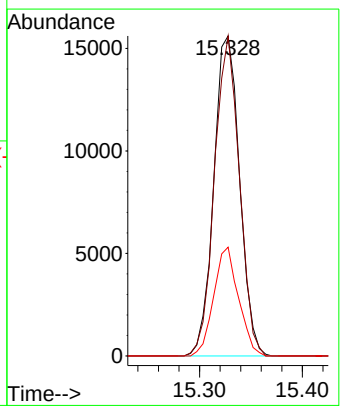
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025




#96
1,2,3-Trichlorobenzene
Concen: 4.772 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:180 Resp: 27176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.3 | 47.9 | 143.8 |
| 145 | 32.7 | 15.3 | 45.9 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023385.D
Acq On : 07 Oct 2025 10:02
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:40:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 559828 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 847077 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 736152 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 374998 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 48826 | 10.071 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 20.140%# | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 53279 | 10.364 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 20.720%# | | |
| 50) Toluene-d8 | 10.109 | 98 | 198242 | 10.225 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 20.460%# | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 62601 | 10.235 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 20.460%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 44666 | 10.129 | ug/l | 97 |
| 3) Chloromethane | 2.068 | 50 | 62413 | 9.957 | ug/l | 97 |
| 4) Vinyl Chloride | 2.202 | 62 | 76587 | 9.676 | ug/l | 99 |
| 5) Bromomethane | 2.592 | 94 | 66689 | 10.271 | ug/l | 90 |
| 6) Chloroethane | 2.732 | 64 | 51757 | 9.632 | ug/l | 92 |
| 7) Trichlorofluoromethane | 3.055 | 101 | 102972 | 10.128 | ug/l | 99 |
| 8) Diethyl Ether | 3.458 | 74 | 26719 | 10.047 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 54405 | 10.011 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 56313 | 8.967 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.854 | 59 | 20540 | 71.998 | ug/l # | 89 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 53191 | 10.173 | ug/l | 98 |
| 13) Acrolein | 3.653 | 56 | 24014 | 49.681 | ug/l | 94 |
| 14) Allyl chloride | 4.385 | 41 | 62154 | 9.494 | ug/l | 99 |
| 15) Acrylonitrile | 5.061 | 53 | 51937 | 49.854 | ug/l | 99 |
| 16) Acetone | 3.872 | 43 | 65410 | 59.997 | ug/l | 94 |
| 17) Carbon Disulfide | 4.104 | 76 | 153055 | 9.382 | ug/l | 100 |
| 18) Methyl Acetate | 4.391 | 43 | 29725 | 10.728 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 120347 | 9.830 | ug/l | 100 |
| 20) Methylene Chloride | 4.616 | 84 | 71034 | 12.016 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 56465 | 9.710 | ug/l | 97 |
| 22) Diisopropyl ether | 6.024 | 45 | 138589 | 9.547 | ug/l | 98 |
| 23) Vinyl Acetate | 5.963 | 43 | 361478 | 45.300 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 93512 | 9.772 | ug/l | 98 |
| 25) 2-Butanone | 6.890 | 43 | 75171 | 55.784 | ug/l | 92 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 86325 | 10.153 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 65335 | 9.905 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 36132 | 9.733 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 38990 | 48.749 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 102058 | 9.890 | ug/l | 99 |
| 31) Cyclohexane | 7.701 | 56 | 80245 | 9.495 | ug/l # | 88 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 91186 | 9.844 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 69913 | 9.639 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 27388 | 9.551 | ug/l | 96 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 84799 | 10.065 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 82275 | 8.860 | ug/l | 95 |
| 40) Benzene | 8.079 | 78 | 220629 | 9.758 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023385.D
Acq On : 07 Oct 2025 10:02
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:40:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.225 | 41 | 14344 | 9.632 | ug/l | # | 92 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 58541 | 10.174 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 53042 | 9.510 | ug/l | | 98 |
| 44) Trichloroethene | 8.865 | 130 | 64537 | 10.171 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 49009 | 9.632 | ug/l | | 100 |
| 46) Dibromomethane | 9.231 | 93 | 30780 | 9.890 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.426 | 83 | 78392 | 10.007 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.225 | 41 | 23484 | 9.023 | ug/l | | 97 |
| 49) 1,4-Dioxane | 9.231 | 88 | 6822 | 211.693 | ug/l | | 94 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 134746 | 47.165 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 138662 | 9.661 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 64315 | 9.559 | ug/l | | 96 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 77905 | 9.687 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 41881 | 10.118 | ug/l | | 92 |
| 56) Ethyl methacrylate | 10.438 | 69 | 42096 | 8.830 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 64537 | 9.633 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 94970m | 45.535 | ug/l | | |
| 59) 2-Hexanone | 10.761 | 43 | 99175 | 50.138 | ug/l | | 96 |
| 60) Dibromochloromethane | 10.908 | 129 | 57151 | 10.123 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 38861 | 9.979 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 76110 | 10.335 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 161155 | 10.074 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 57233 | 10.173 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.517 | 91 | 251958 | 9.651 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.627 | 106 | 198866 | 19.004 | ug/l | | 99 |
| 69) o-Xylene | 11.950 | 106 | 91710 | 9.467 | ug/l | | 100 |
| 70) Styrene | 11.969 | 104 | 151094 | 9.446 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 35681 | 10.595 | ug/l | # | 94 |
| 73) Isopropylbenzene | 12.249 | 105 | 236489 | 9.467 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 40098 | 8.590 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 41130 | 9.871 | ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 29944m | 8.095 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 66002 | 10.295 | ug/l | | 99 |
| 78) n-propylbenzene | 12.590 | 91 | 275671 | 9.384 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 165582 | 9.762 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 191799 | 9.445 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 13110 | 9.556 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 169968 | 9.595 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 177250 | 9.579 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 191423 | 9.528 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.170 | 105 | 254134 | 9.483 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 210320 | 9.287 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 127377 | 10.058 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 127757 | 10.172 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.615 | 91 | 182116 | 9.107 | ug/l | | 98 |
| 90) Hexachloroethane | 13.877 | 117 | 47355 | 9.630 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 112325 | 10.165 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 7005 | 10.608 | ug/l | | 94 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 65050 | 9.992 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 42813 | 10.554 | ug/l | | 97 |
| 95) Naphthalene | 15.139 | 128 | 96092 | 9.264 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 56499 | 10.004 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023385.D
Acq On : 07 Oct 2025 10:02
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:40:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

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

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

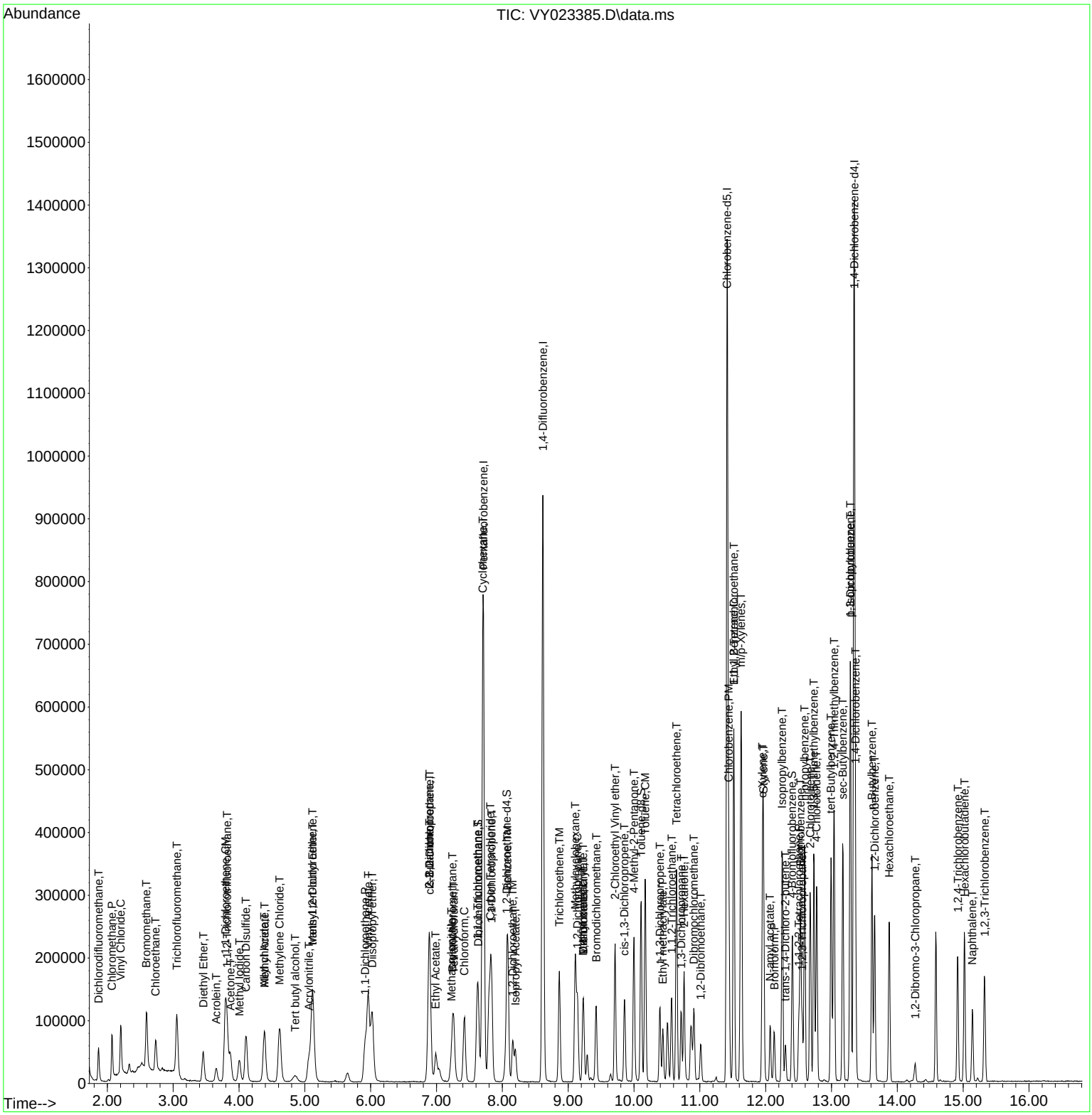
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023385.D
Acq On : 07 Oct 2025 10:02
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

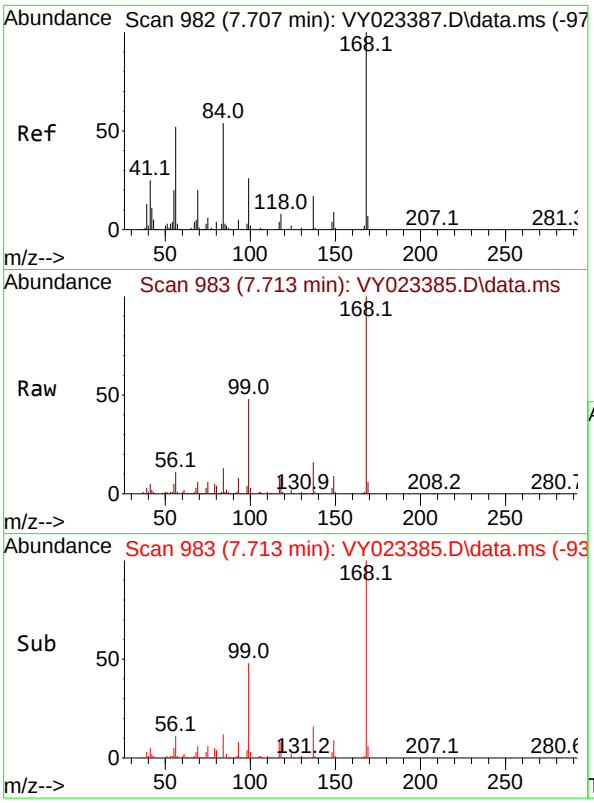
Quant Time: Oct 08 04:40:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

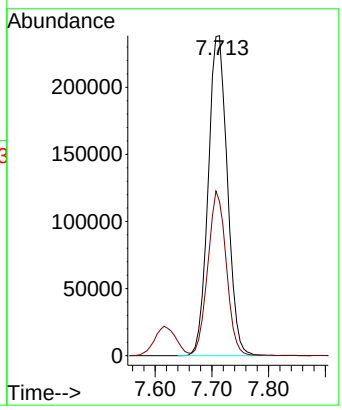





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:168 Resp: 55982

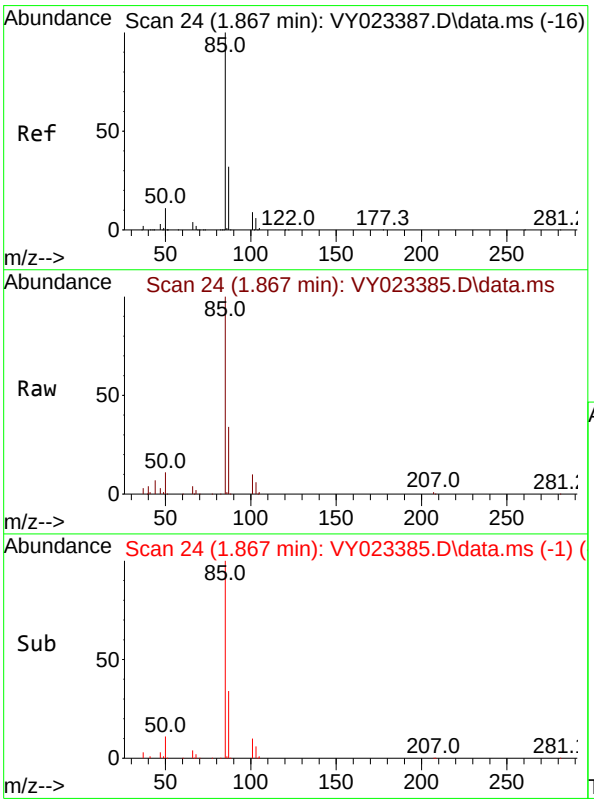
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 48.2 | 39.7 | 59.5 |




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

**Manual Integrations**
**APPROVED**

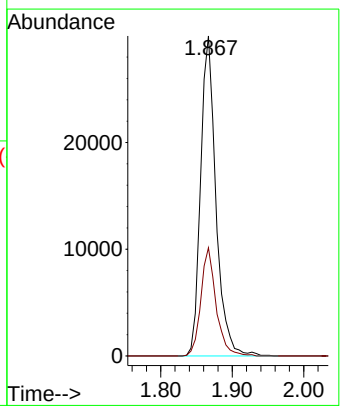
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

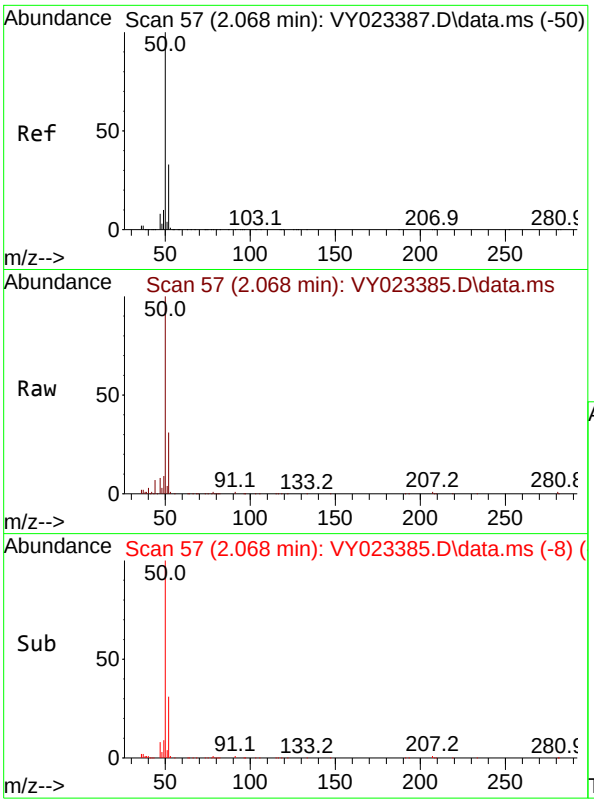



#2
Dichlorodifluoromethane
Concen: 10.129 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 85 Resp: 44666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.8 | 16.0 | 47.9 |

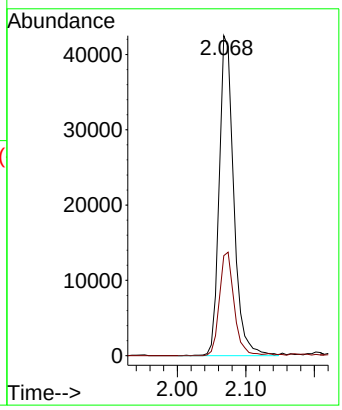





#3
Chloromethane
Concen: 9.957 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 50 Resp: 6241

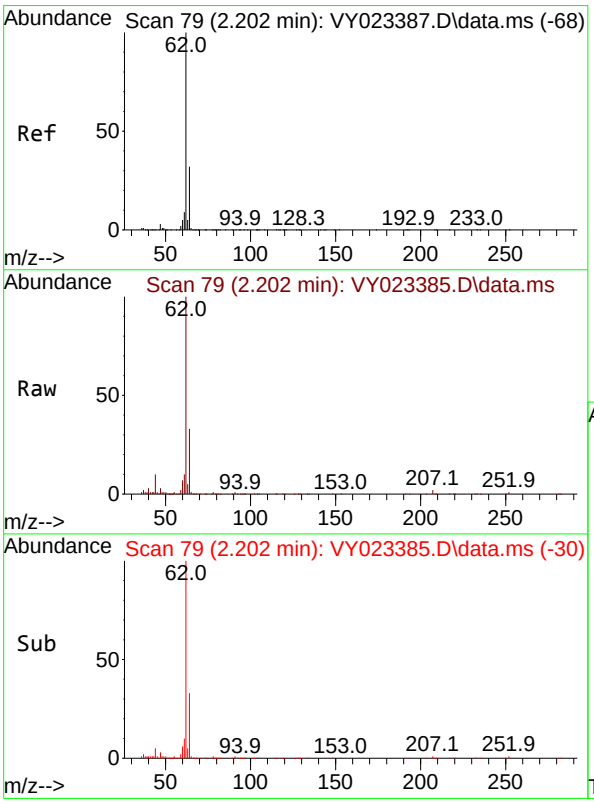
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.2 | 26.2 | 39.2 |




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

**Manual Integrations**
**APPROVED**

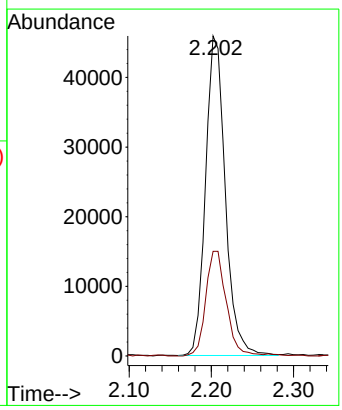
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

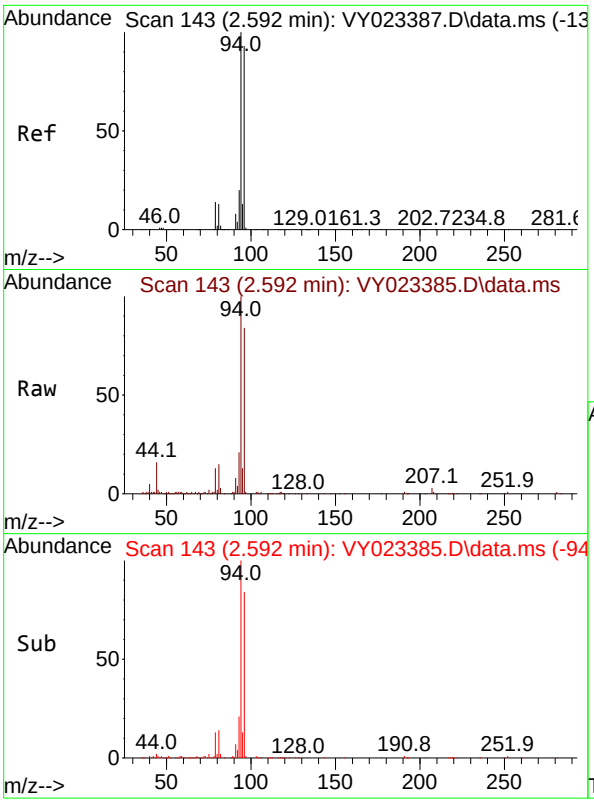



#4
Vinyl Chloride
Concen: 9.676 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 62 Resp: 76587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.7 | 25.8 | 38.8 |






#5
Bromomethane
Concen: 10.271 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 94 Resp: 6668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 83.4 | 74.5 | 111.7 |

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

**Manual Integrations**
**APPROVED**

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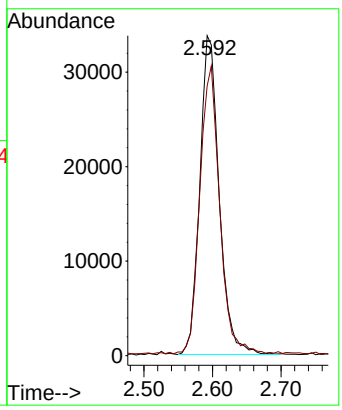
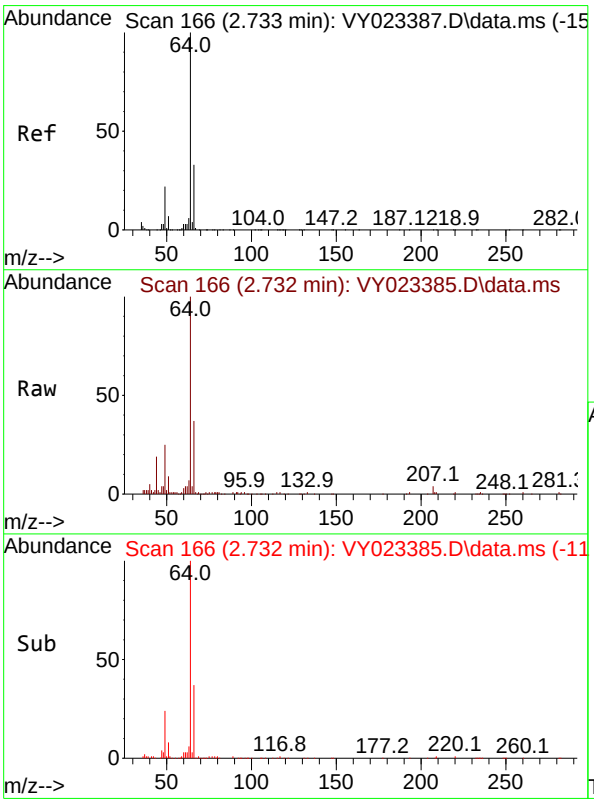
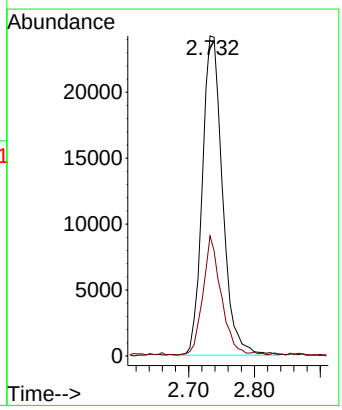


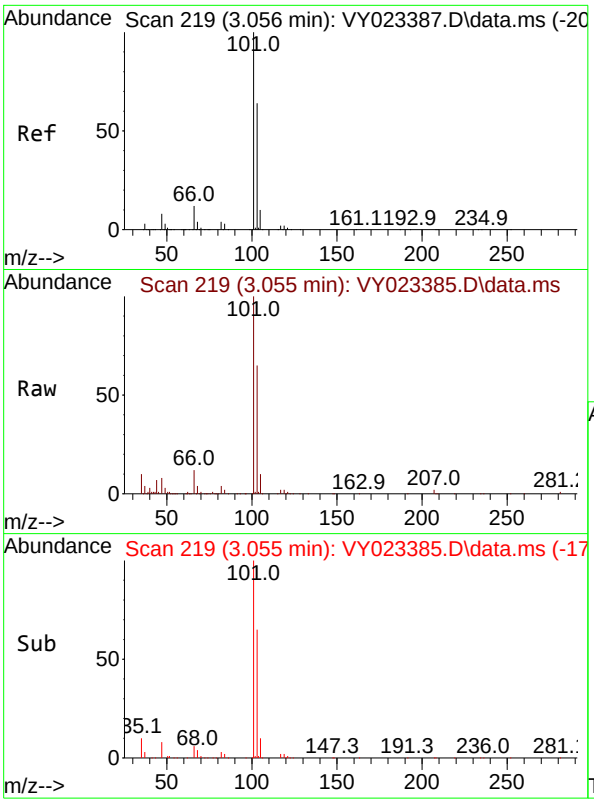




#6
Chloroethane
Concen: 9.632 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 64 Resp: 51757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 37.2 | 26.2 | 39.4 |






#7
Trichlorofluoromethane
Concen: 10.128 ug/l
RT: 3.055 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:101 Resp: 10297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.1 | 51.3 | 76.9 |

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

**Manual Integrations**
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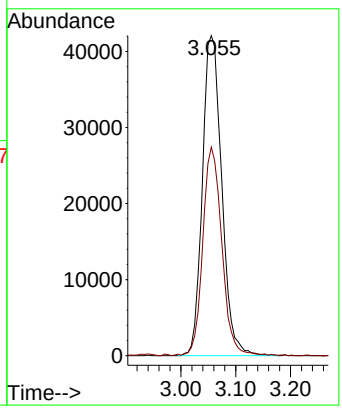
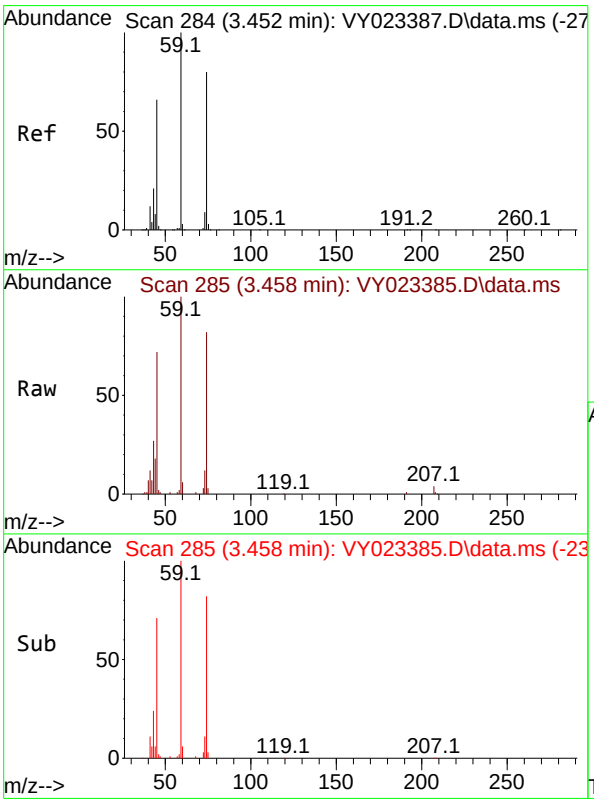
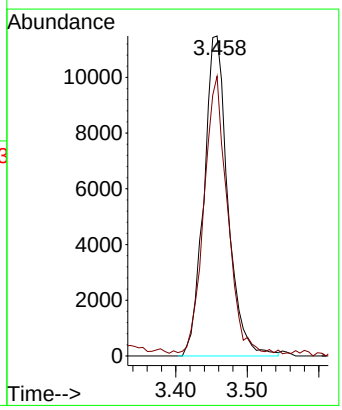


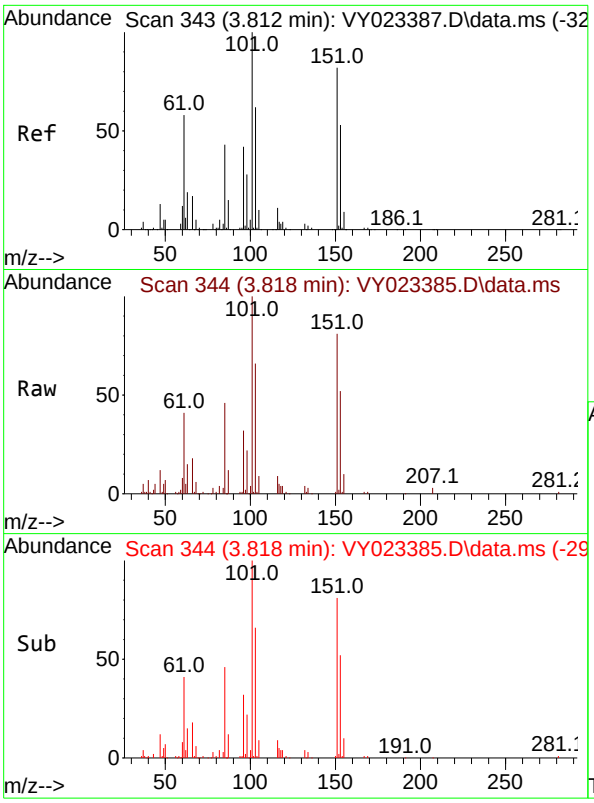




#8
Diethyl Ether
Concen: 10.047 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 74 Resp: 26719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 83.5 | 39.9 | 119.7 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.011 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:101 Resp: 5440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 42.2 | 34.6 | 51.8 |
| 151 | 82.7 | 67.0 | 100.6 |

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

**Manual Integrations**
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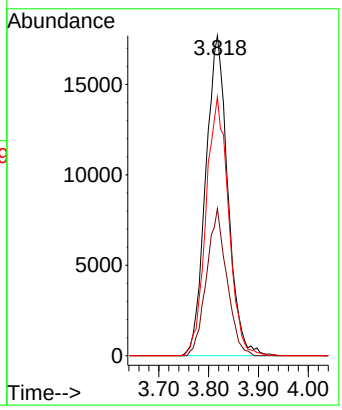
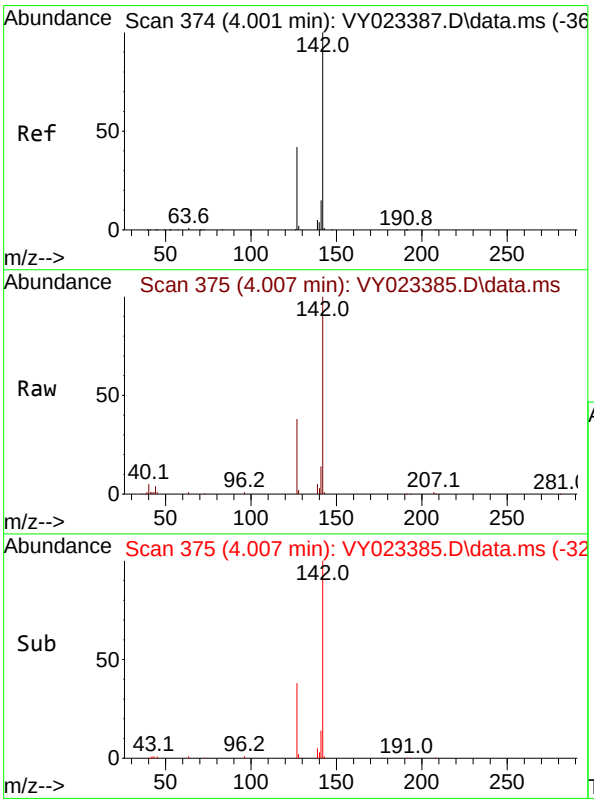
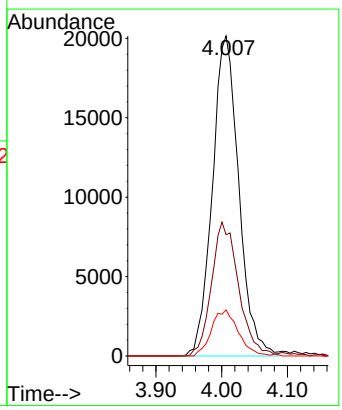


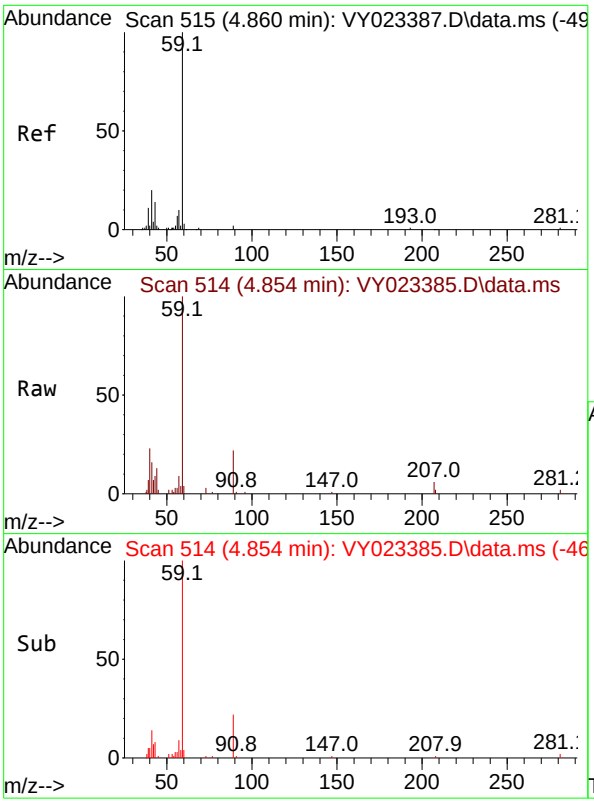




#10
Methyl Iodide
Concen: 8.967 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:142 Resp: 56313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 42.9 | 34.8 | 52.2 |
| 141 | 14.6 | 11.6 | 17.4 |

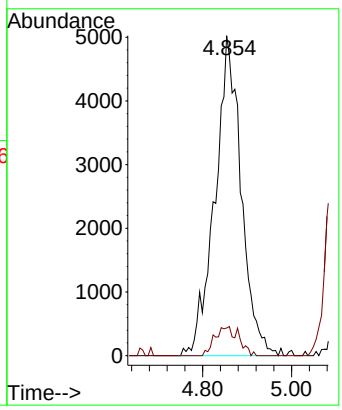





#11
Tert butyl alcohol
Concen: 71.998 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 59 Resp: 2054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 6.3 | 8.3 | 12.5# |




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

**Manual Integrations**
**APPROVED**

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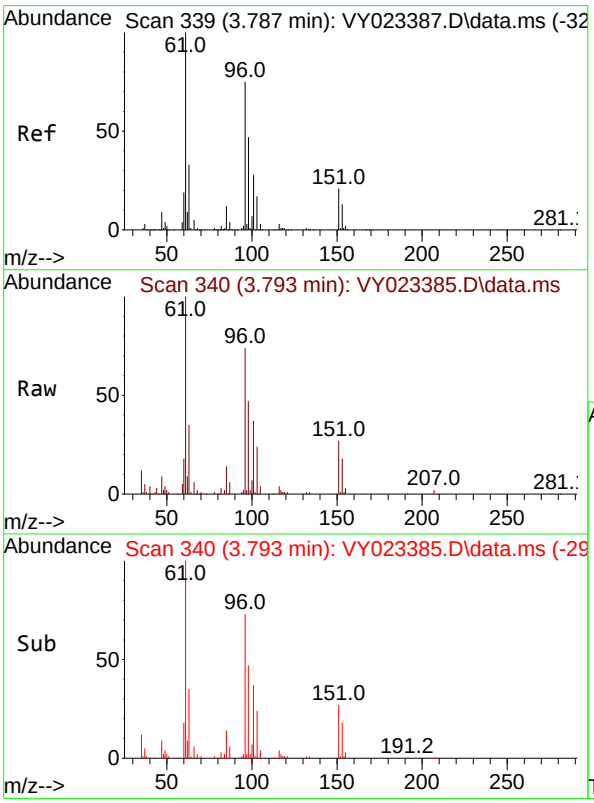
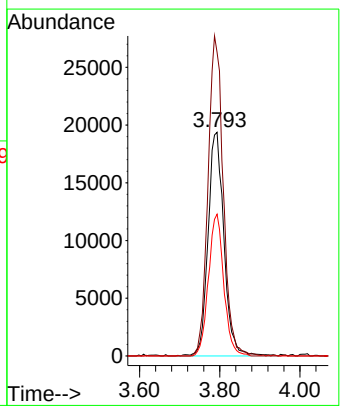
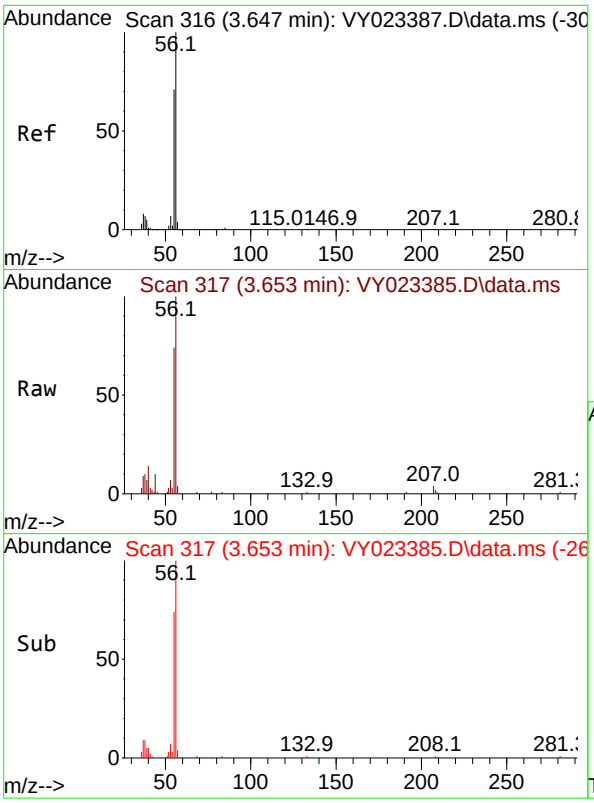



#12
1,1-Dichloroethene
Concen: 10.173 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 96 Resp: 53191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.7 | 106.7 | 160.1 |
| 98 | 63.4 | 50.2 | 75.4 |

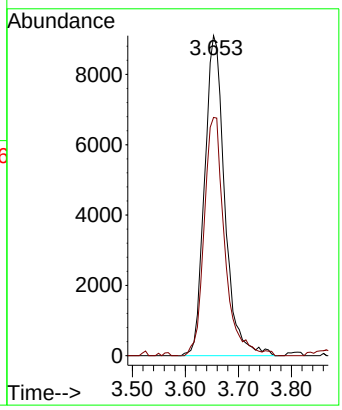





#13
Acrolein
Concen: 49.681 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 56 Resp: 2401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 75.2 | 56.1 | 84.1 |




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

**Manual Integrations**
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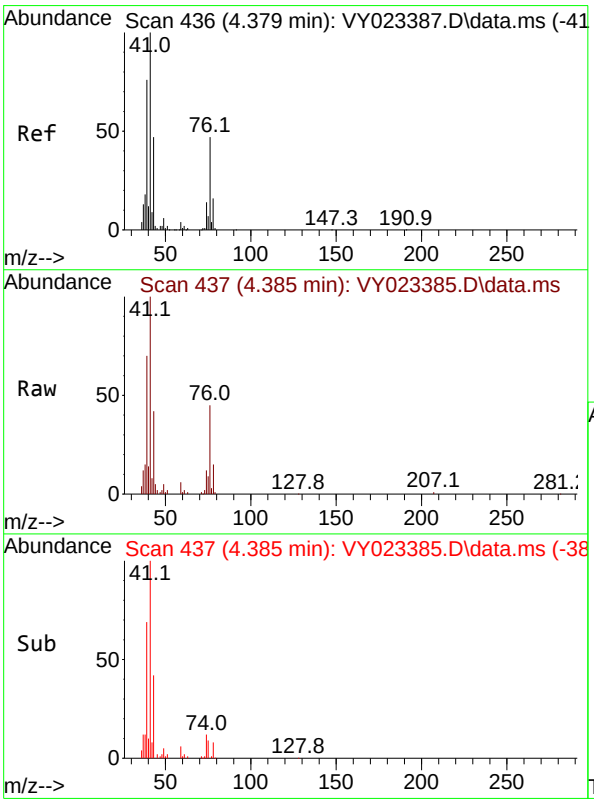
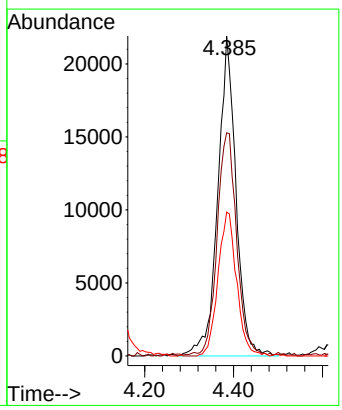
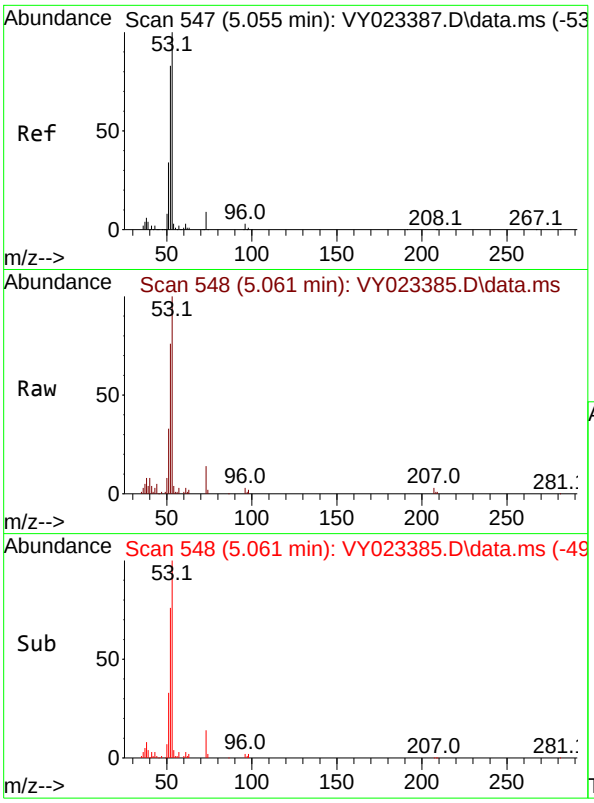



#14
Allyl chloride
Concen: 9.494 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 41 Resp: 62154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 74.2 | 59.9 | 89.9 |
| 76 | 45.9 | 38.0 | 57.0 |

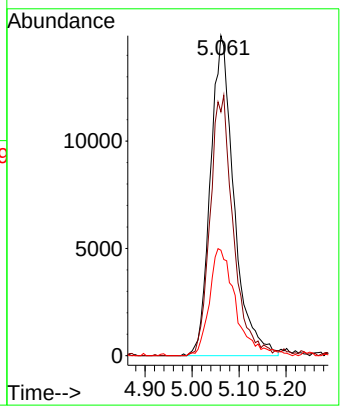





#15
Acrylonitrile
Concen: 49.854 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 53 Resp: 5193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 79.5 | 64.6 | 97.0 |
| 51 | 37.4 | 29.5 | 44.3 |




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

**Manual Integrations**
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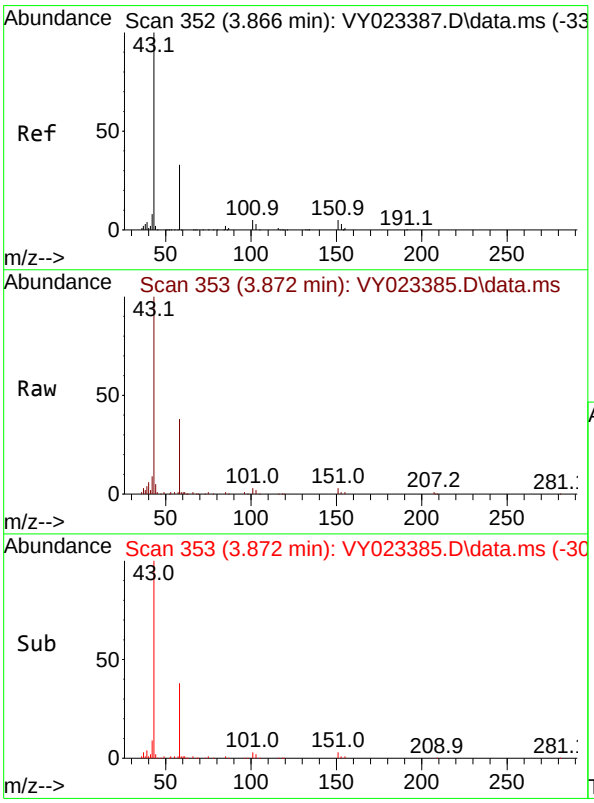
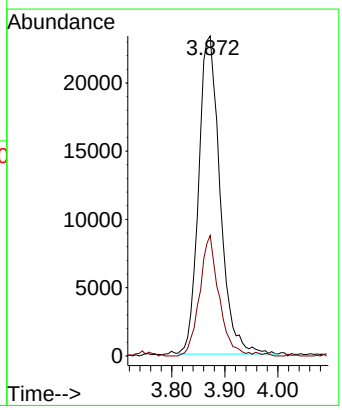
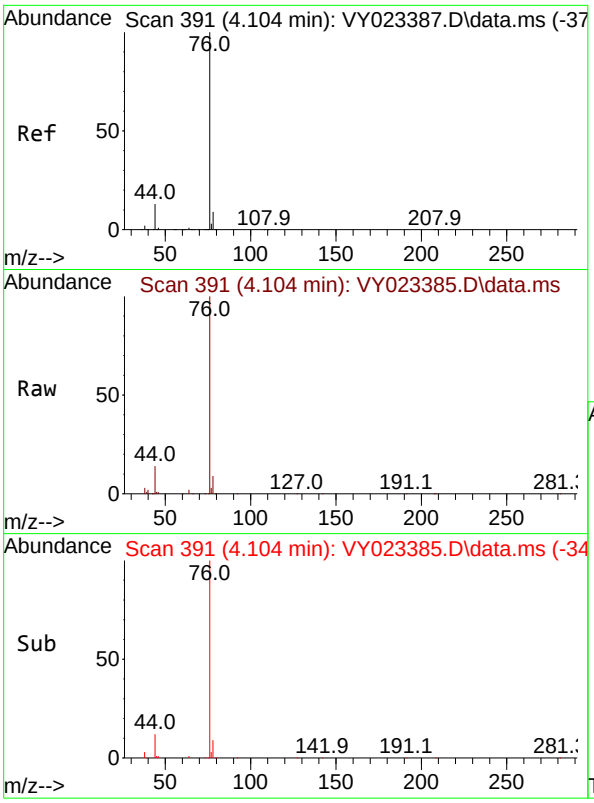



#16
Acetone
Concen: 59.997 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 65410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.9 | 27.7 | 41.5 |

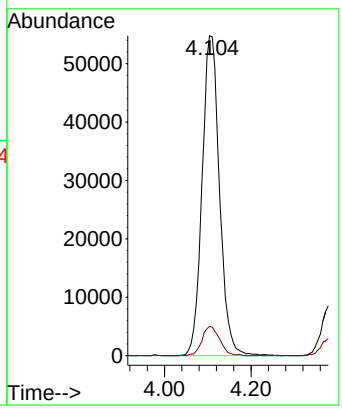





#17
Carbon Disulfide
Concen: 9.382 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 76 Resp: 15305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.3 | 10.9 |




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

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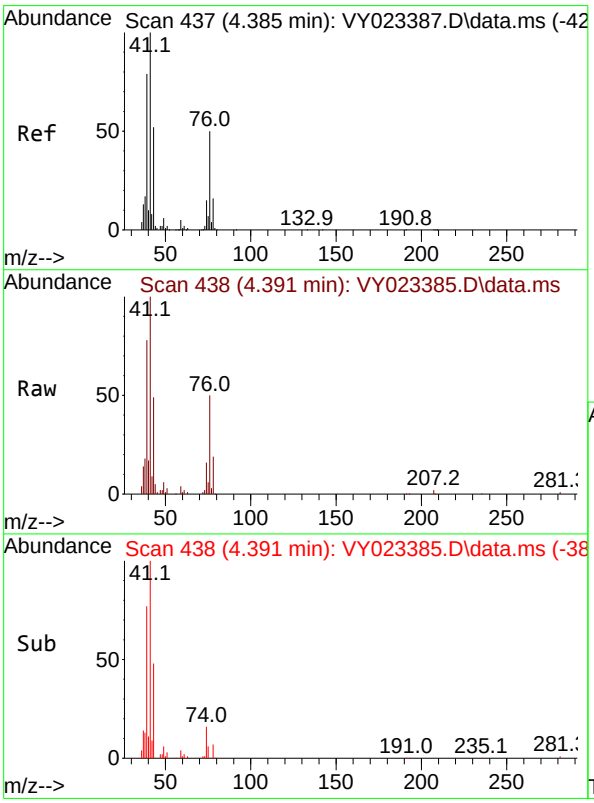
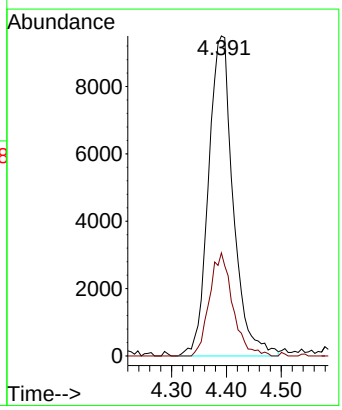
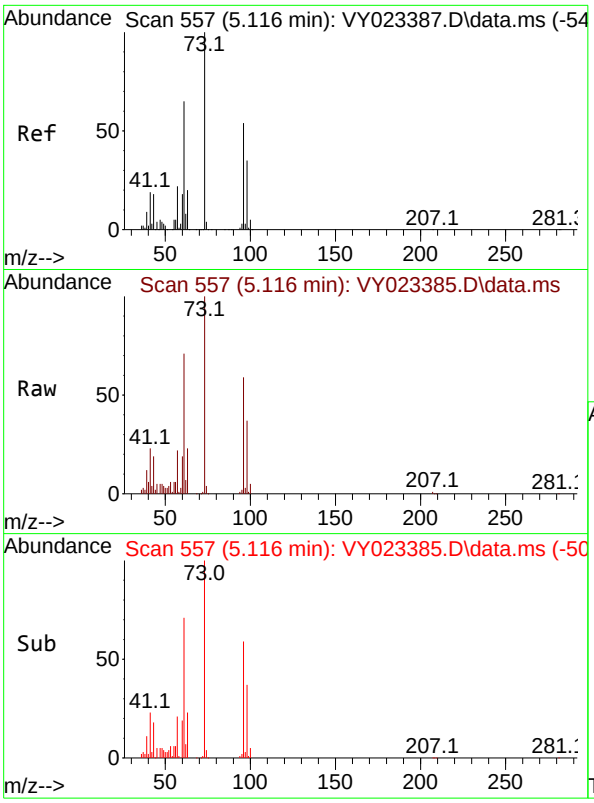



#18
Methyl Acetate
Concen: 10.728 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 29725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 30.3 | 24.2 | 36.4 |

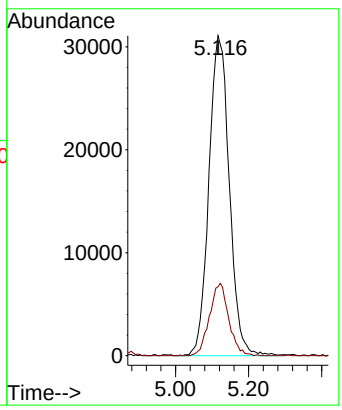





#19
Methyl tert-butyl Ether
Concen: 9.830 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 73 Resp: 12034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.5 | 17.4 | 26.0 |




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

**Manual Integrations**
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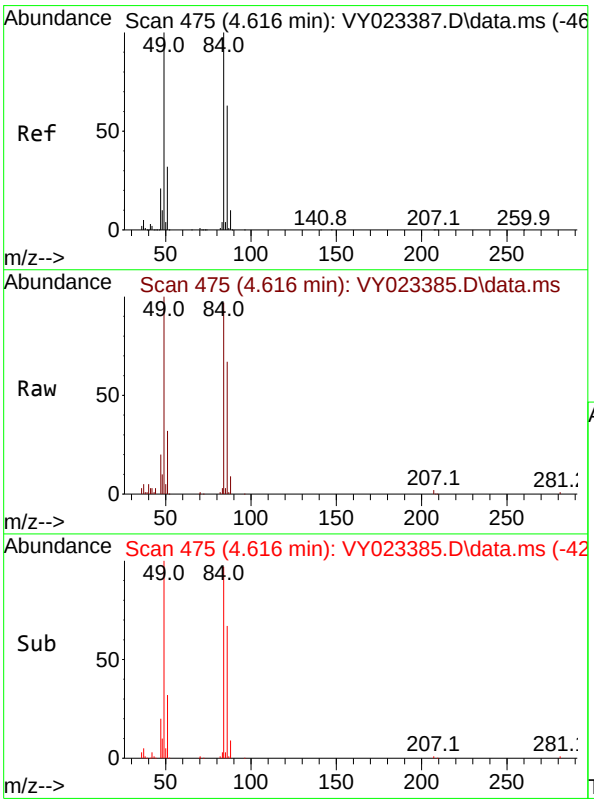
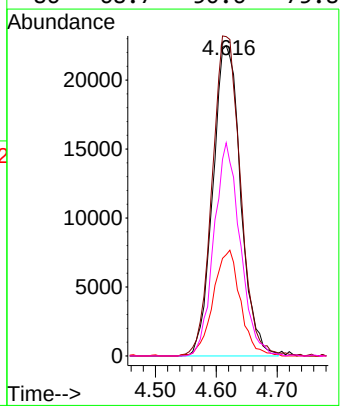
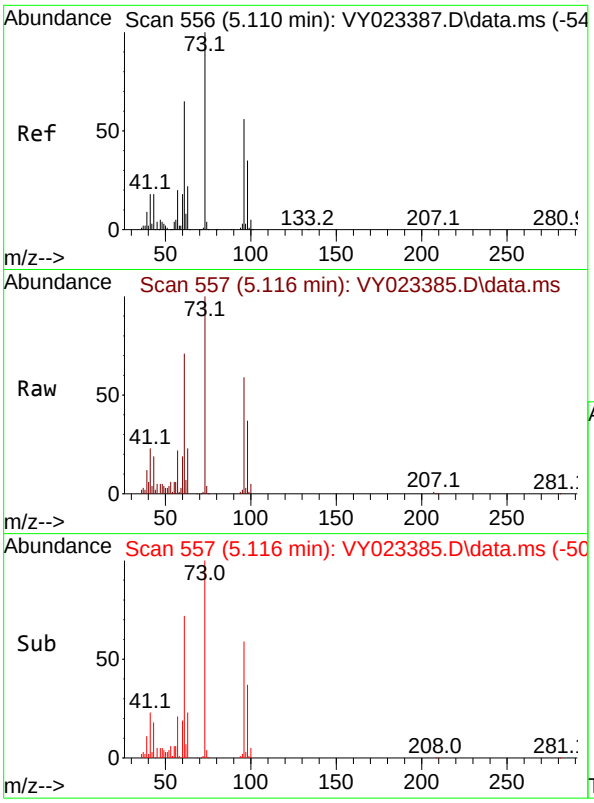



#20
Methylene Chloride
Concen: 12.016 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 84 Resp: 71034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 102.9 | 80.2 | 120.4 |
| 51 | 32.6 | 25.9 | 38.9 |
| 86 | 68.7 | 50.6 | 75.8 |

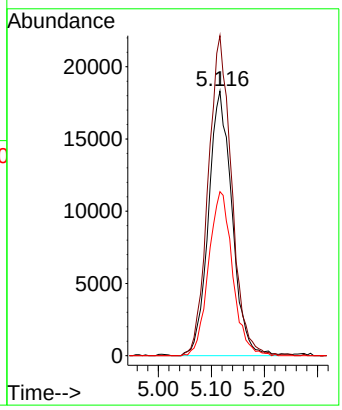





#21
trans-1,2-Dichloroethene
Concen: 9.710 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 96 Resp: 5646

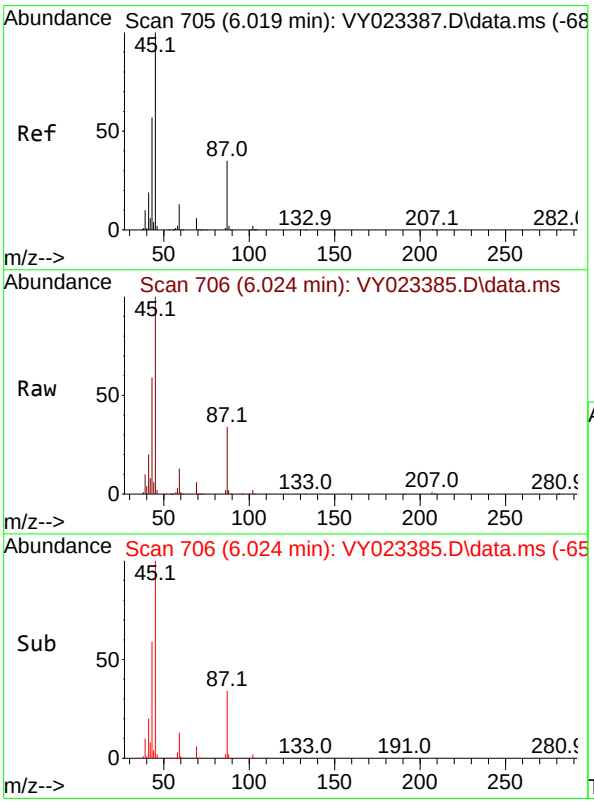
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 121.0 | 92.7 | 139.1 |
| 98 | 62.0 | 49.7 | 74.5 |




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

**Manual Integrations**
**APPROVED**

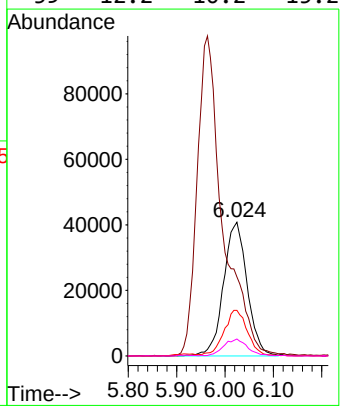
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

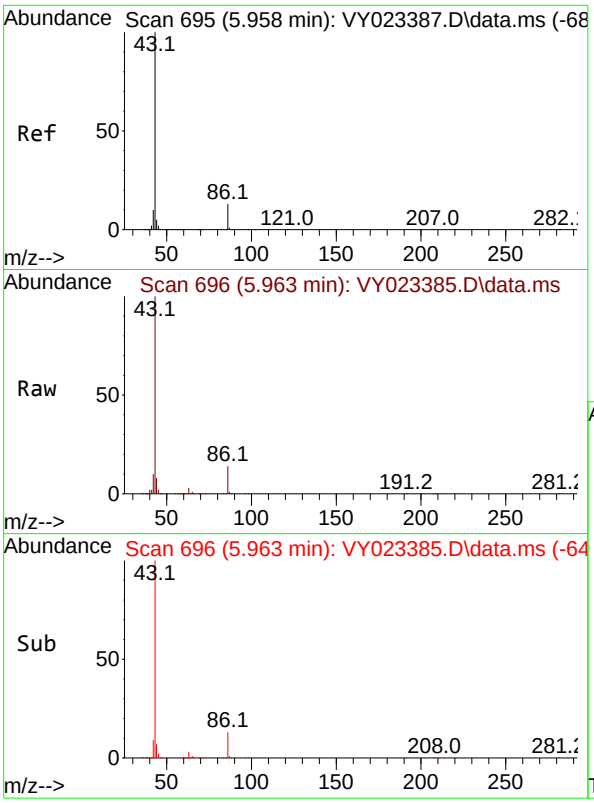



#22
Diisopropyl ether
Concen: 9.547 ug/l
RT: 6.024 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 45 Resp: 138589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 58.2 | 45.6 | 68.4 |
| 87 | 33.7 | 28.1 | 42.1 |
| 59 | 12.2 | 10.2 | 15.2 |

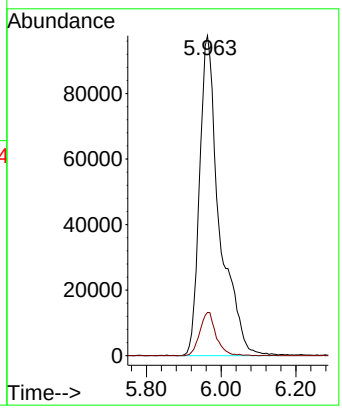





#23
Vinyl Acetate
Concen: 45.300 ug/l
RT: 5.963 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 36147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 13.5 | 10.6 | 15.8 |




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

**Manual Integrations**
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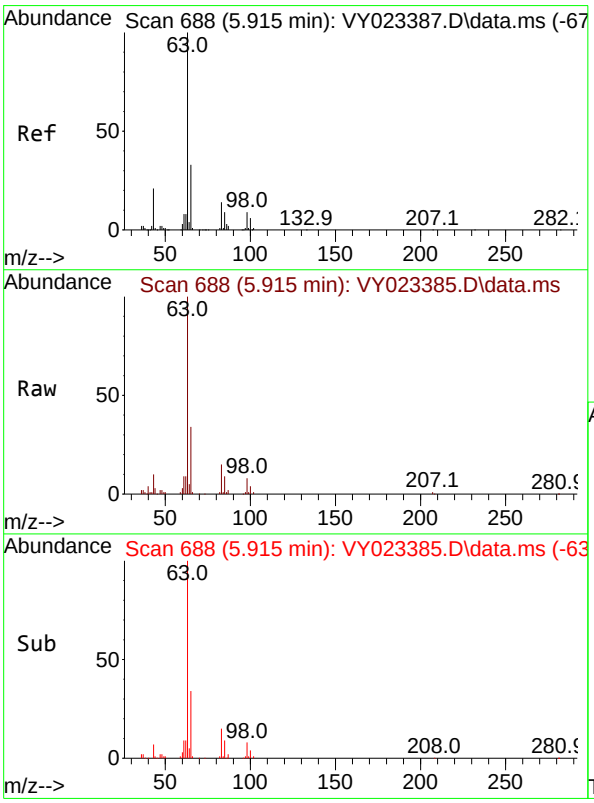
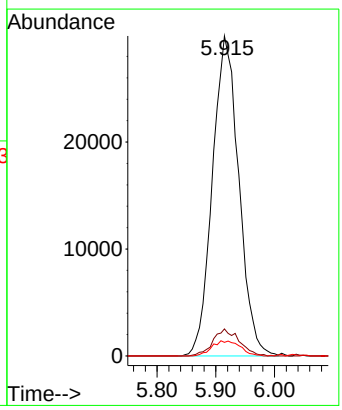
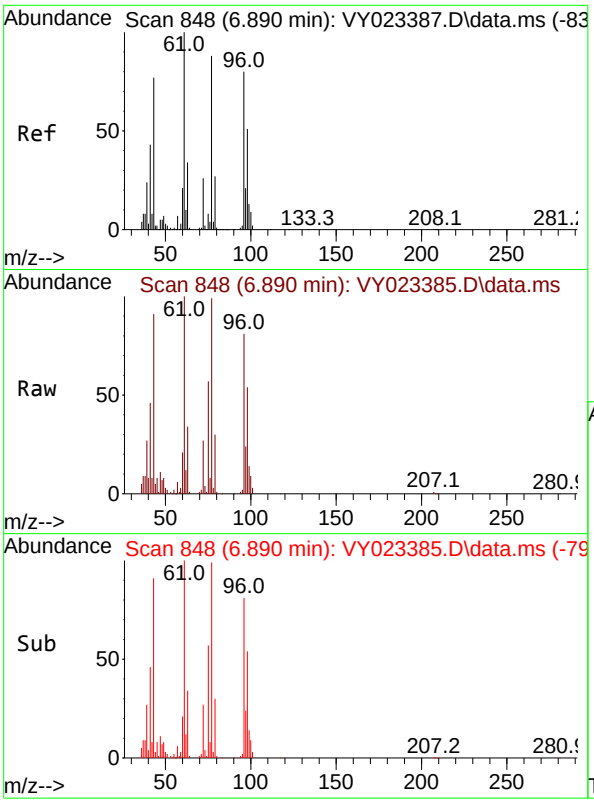



#24
1,1-Dichloroethane
Concen: 9.772 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 63 Resp: 93512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.4 | 4.3 | 13.1 |
| 100 | 4.3 | 2.8 | 8.4 |






#25
2-Butanone
Concen: 55.784 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 7517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.4 | 27.4 | 41.2 |

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

**Manual Integrations**
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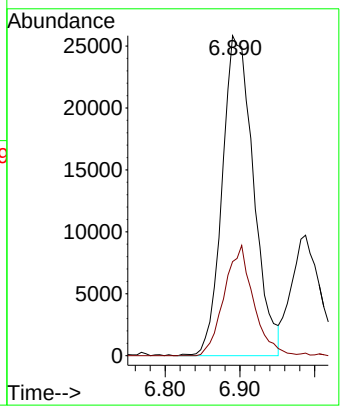
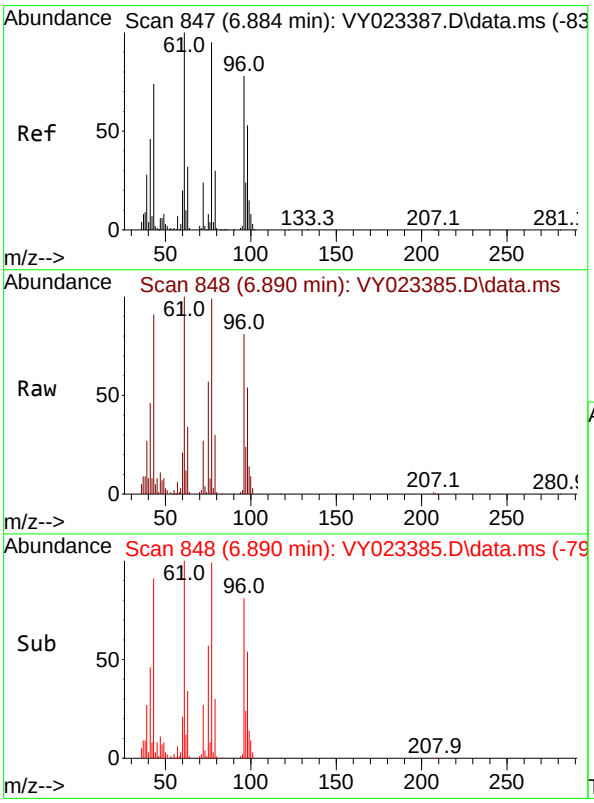
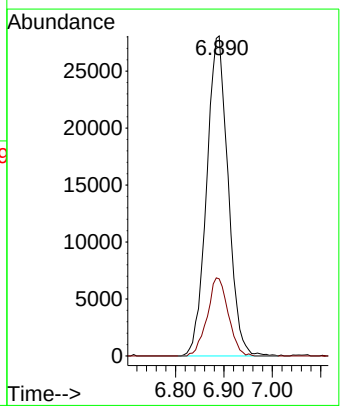


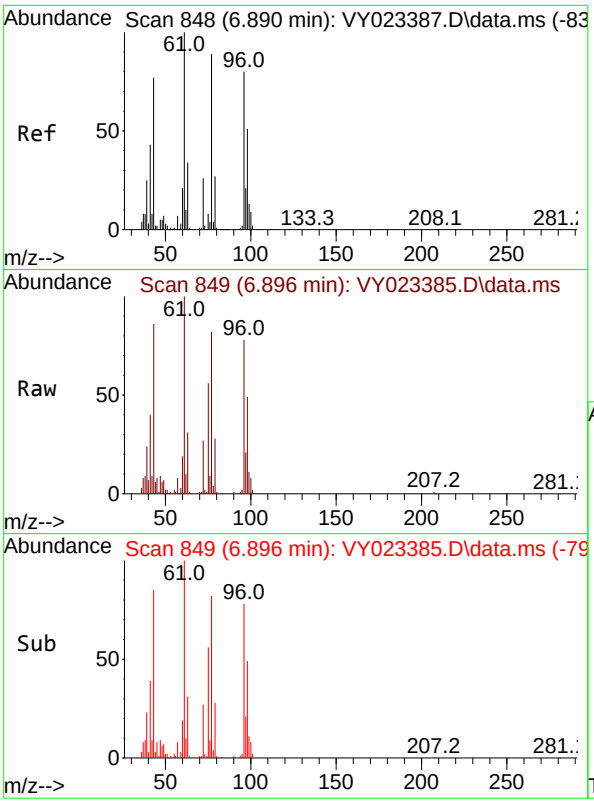




#26
2,2-Dichloropropane
Concen: 10.153 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 77 Resp: 86325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.9 | 12.1 | 36.3 |

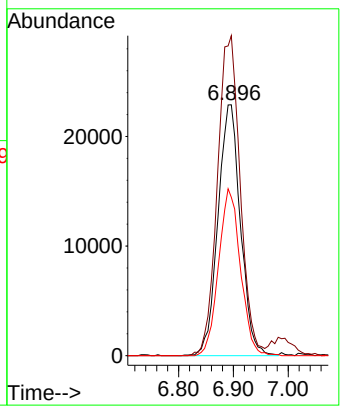





#27
cis-1,2-Dichloroethene
Concen: 9.905 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 96 Resp: 6533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 129.1 | 0.0 | 258.2 |
| 98 | 64.5 | 0.0 | 132.0 |




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

**Manual Integrations**
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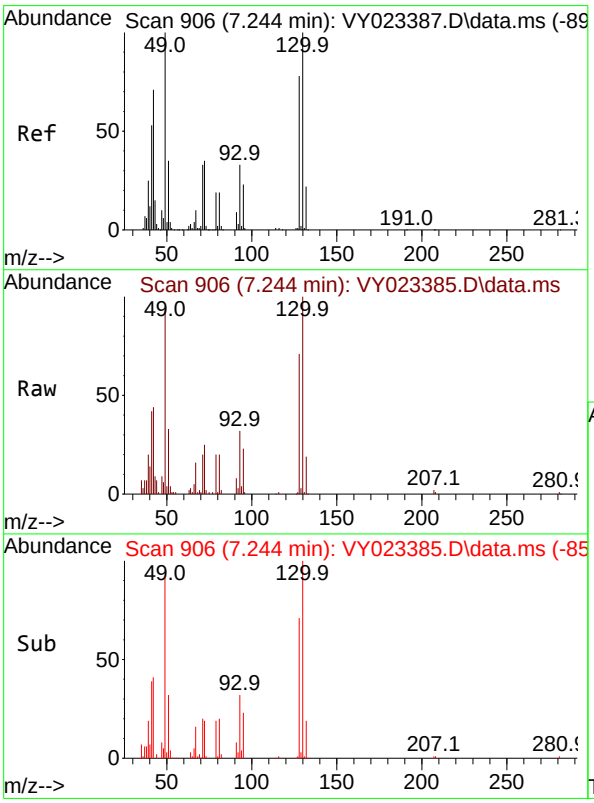
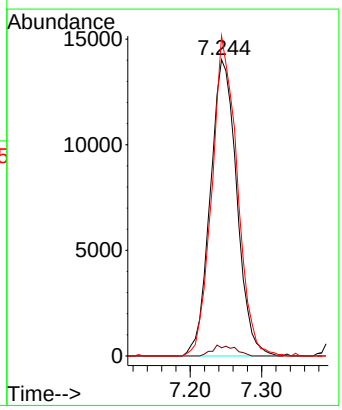
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

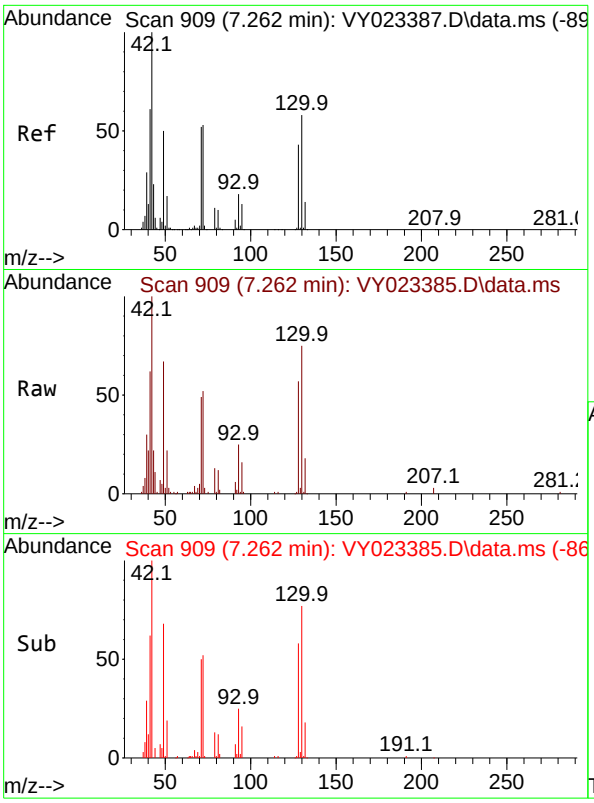



#28
Bromochloromethane
Concen: 9.733 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 49 Resp: 36132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 3.1 | 0.0 | 5.6 |
| 130 | 103.0 | 81.9 | 122.9 |

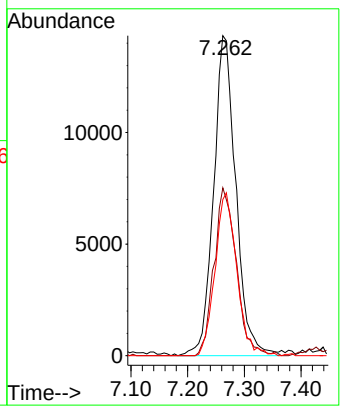





#29
Tetrahydrofuran
Concen: 48.749 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 42 Resp: 3899(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 52.6 | 43.0 | 64.6 |
| 71 | 49.8 | 40.1 | 60.1 |




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

**Manual Integrations**
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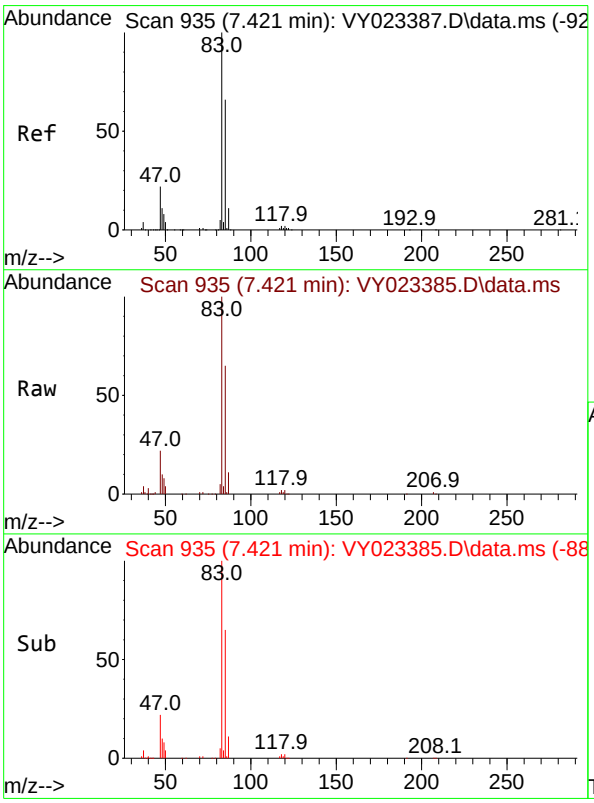
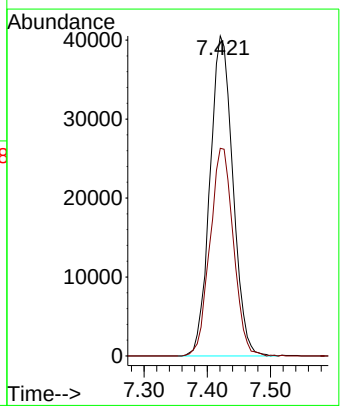
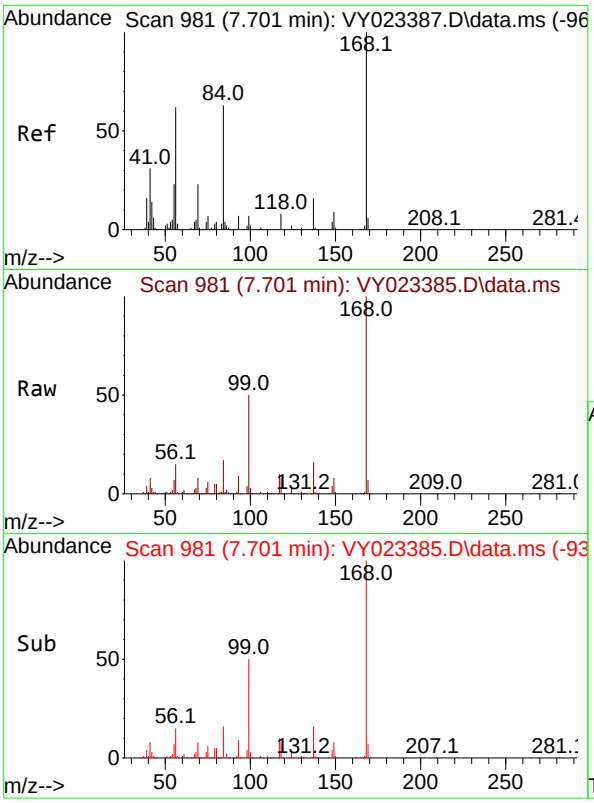



#30
Chloroform
Concen: 9.890 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 83 Resp: 102058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.9 | 52.5 | 78.7 |

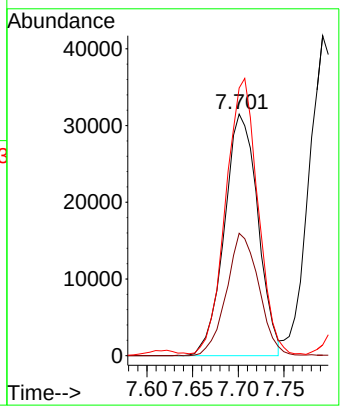





#31
Cyclohexane
Concen: 9.495 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 56 Resp: 8024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 50.5 | 30.0 | 45.0 |
| 84 | 109.7 | 81.2 | 121.8 |




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

**Manual Integrations**
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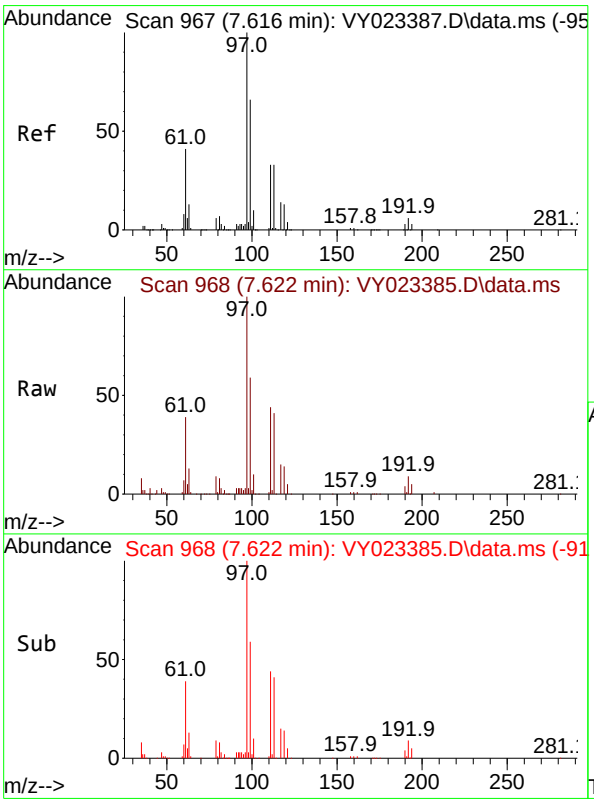
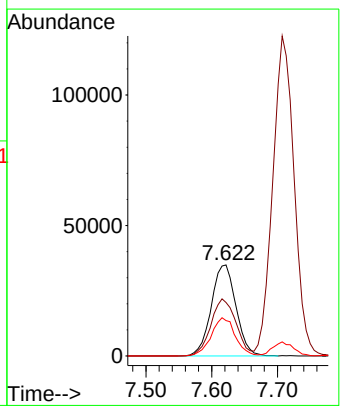
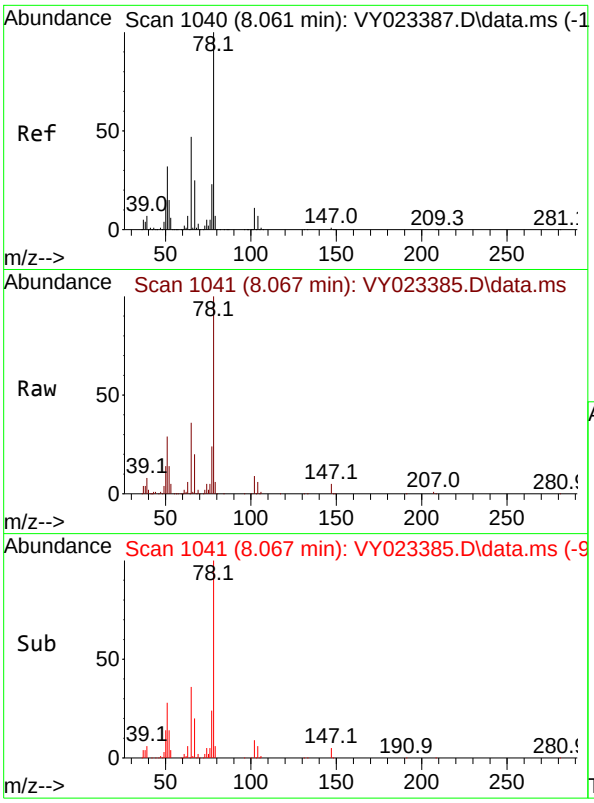



#32
1,1,1-Trichloroethane
Concen: 9.844 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 97 Resp: 91186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.2 | 51.4 | 77.2 |
| 61 | 41.0 | 31.9 | 47.9 |






#33
1,2-Dichloroethane-d4
Concen: 10.071 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 65 Resp: 4882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 55.4 | 0.0 | 105.8 |

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

**Manual Integrations**
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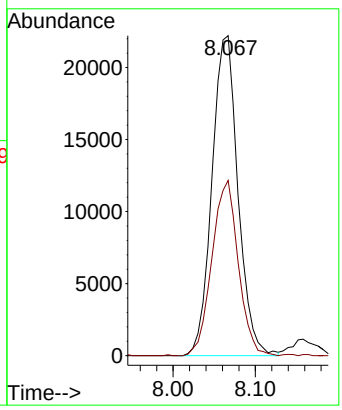
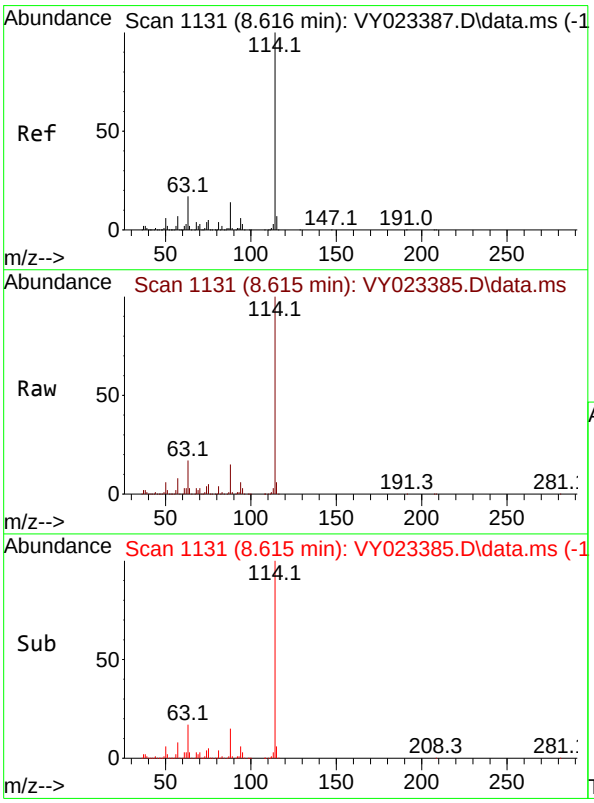
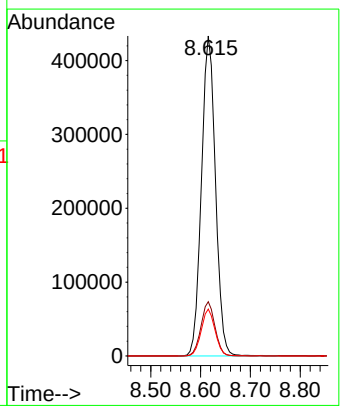


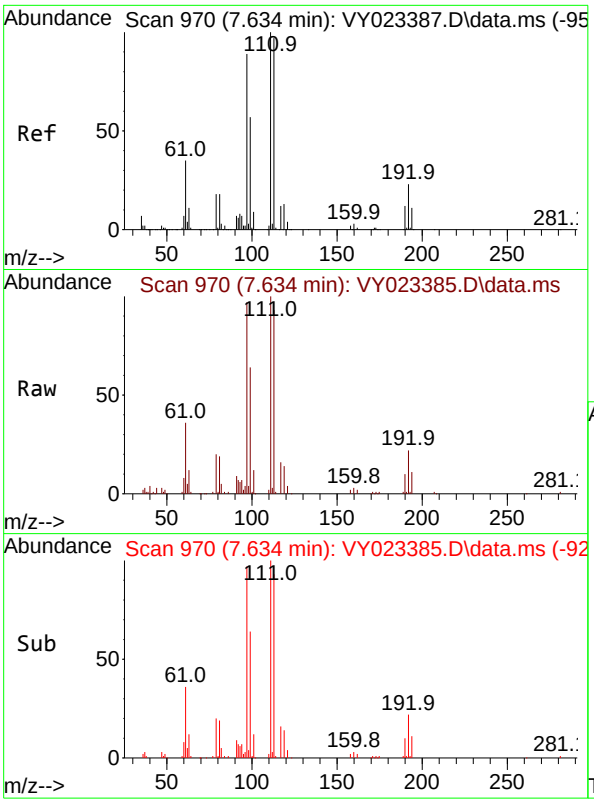




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:114 Resp: 847077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 16.9 | 0.0 | 34.2 |
| 88 | 14.7 | 0.0 | 28.4 |

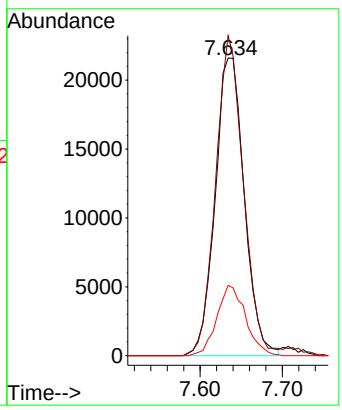





#35
Dibromofluoromethane
Concen: 10.364 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:113 Resp: 5327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.1 | 81.8 | 122.6 |
| 192 | 23.3 | 18.0 | 27.0 |




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

**Manual Integrations**
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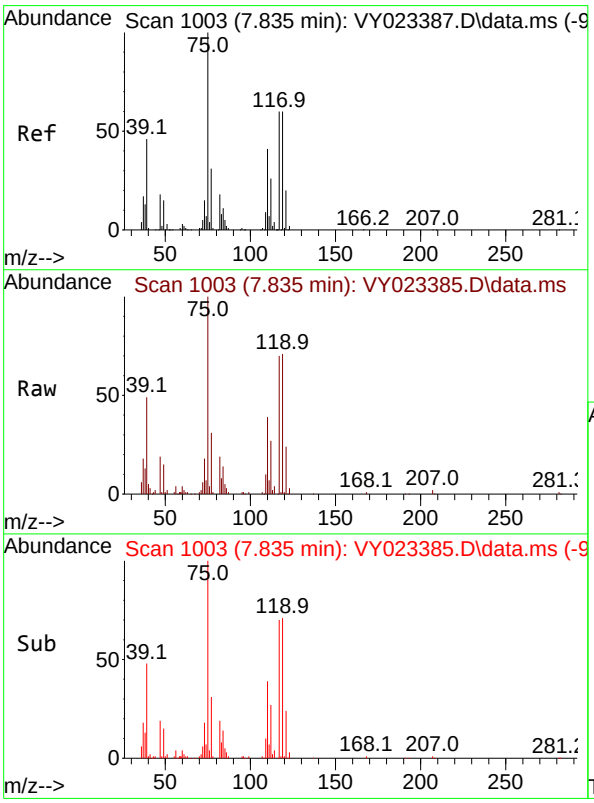
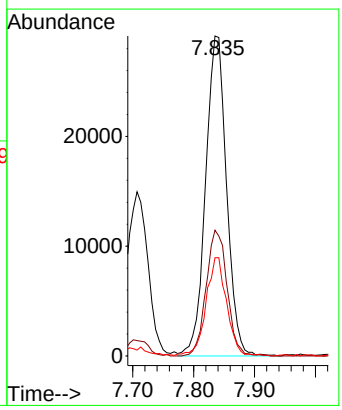
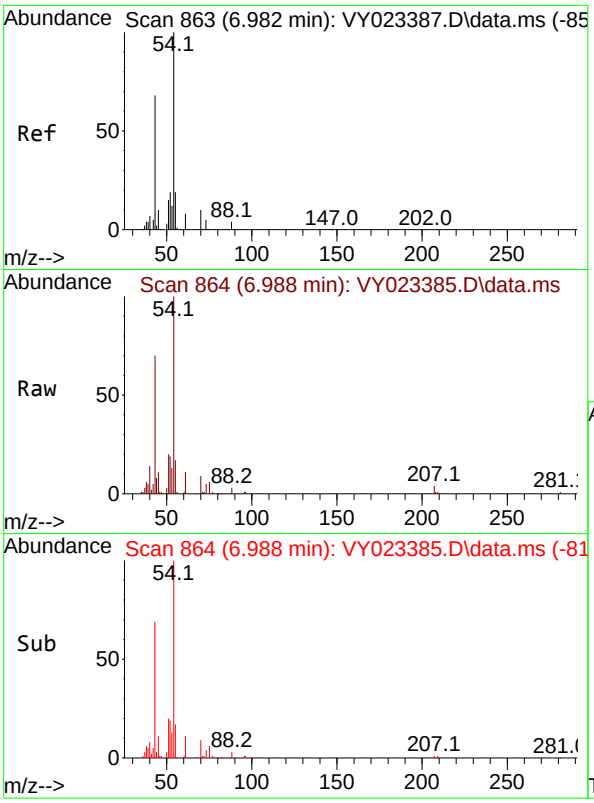



#36
1,1-Dichloropropene
Concen: 9.639 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 75 Resp: 69913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 39.2 | 19.9 | 59.7 |
| 77 | 30.4 | 25.0 | 37.6 |






#37
Ethyl Acetate
Concen: 9.551 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 2738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 17.3 | 11.8 | 17.8 |
| 70 | 12.8 | 10.5 | 15.7 |

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

**Manual Integrations**
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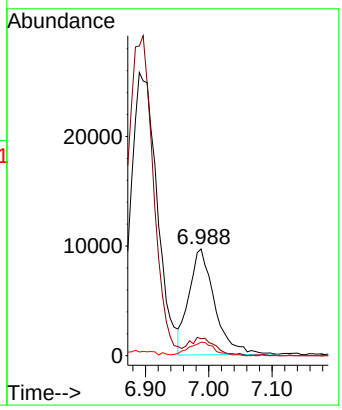
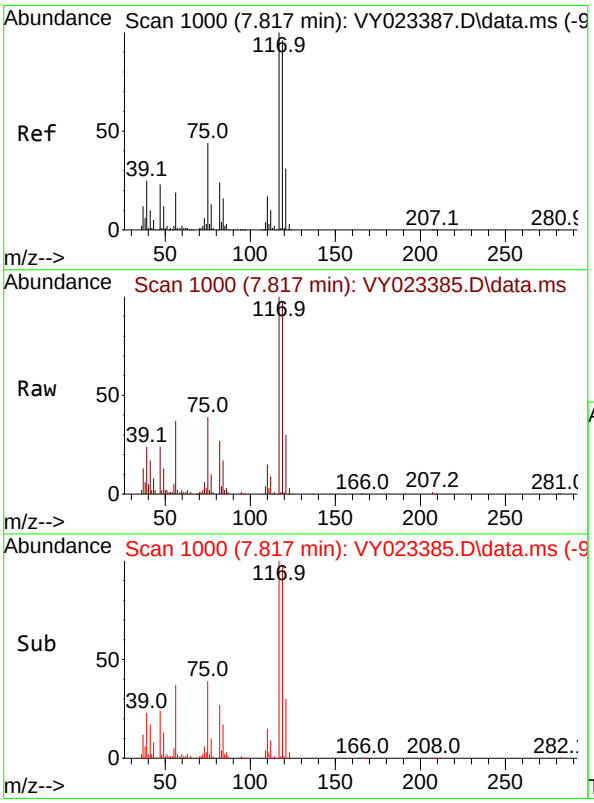
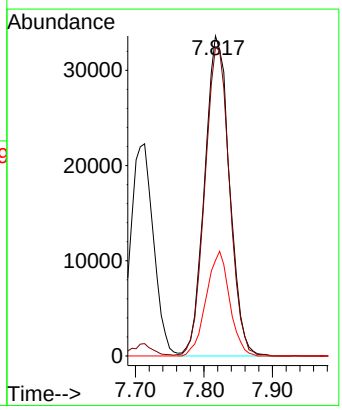


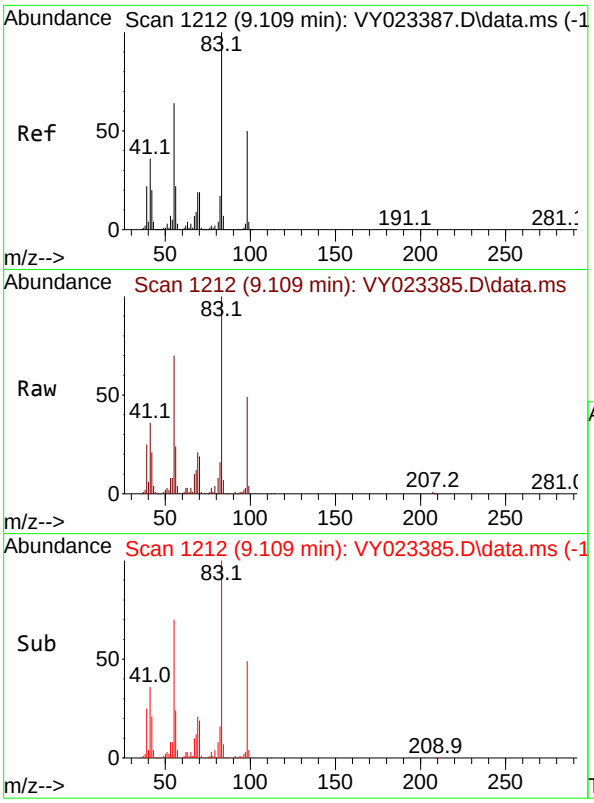




#38
Carbon Tetrachloride
Concen: 10.065 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:117 Resp: 84799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.5 | 76.8 | 115.2 |
| 121 | 29.9 | 24.5 | 36.7 |






#39
Methylcyclohexane
Concen: 8.860 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

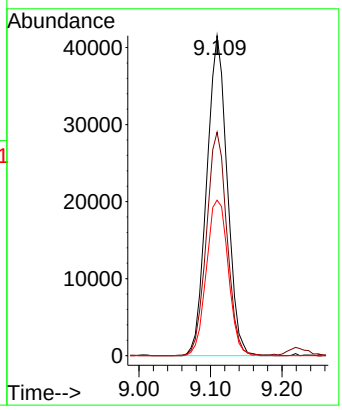
Tgt Ion: 83 Resp: 8227

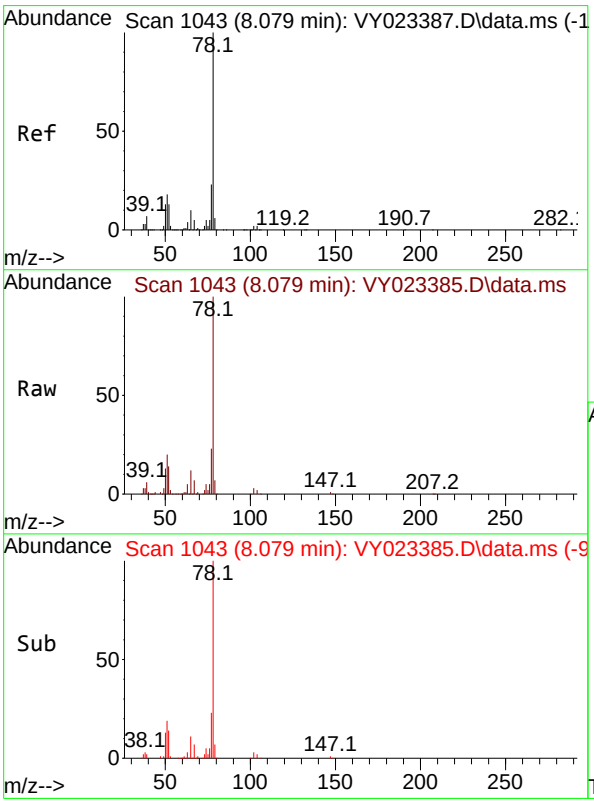
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 69.7 | 51.4 | 77.2 |
| 98 | 48.6 | 40.4 | 60.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

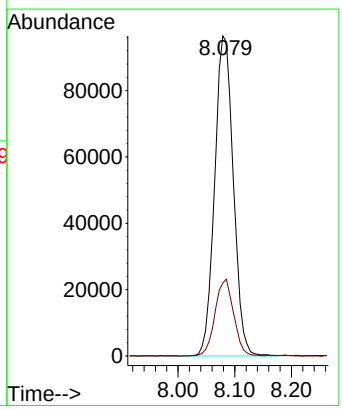


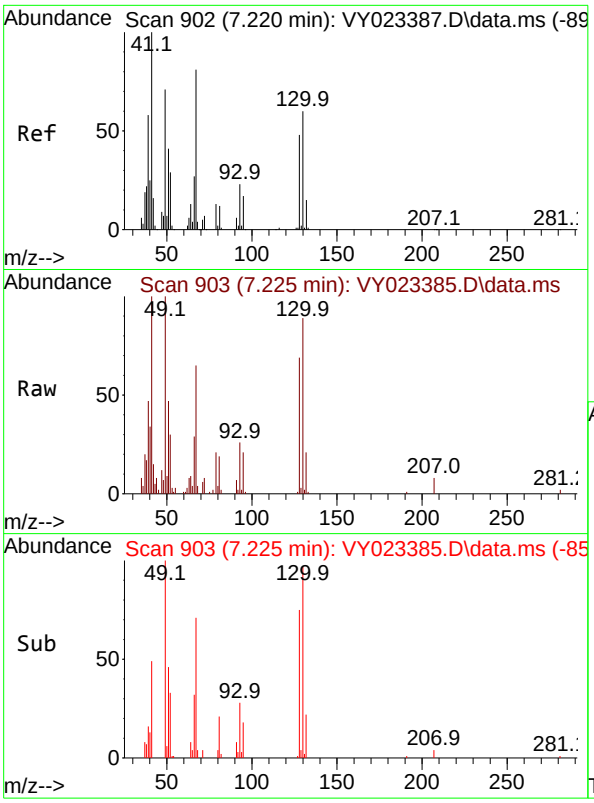




#40
Benzene
Concen: 9.758 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 78 Resp: 220629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.8 | 18.3 | 27.5 |

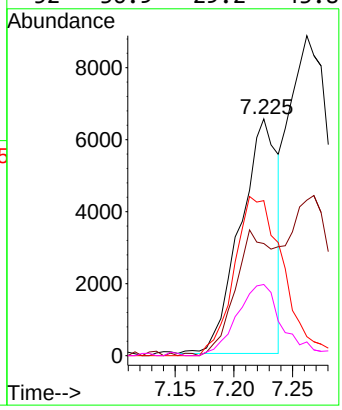





#41
Methacrylonitrile
Concen: 9.632 ug/l
RT: 7.225 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 41 Resp: 1434

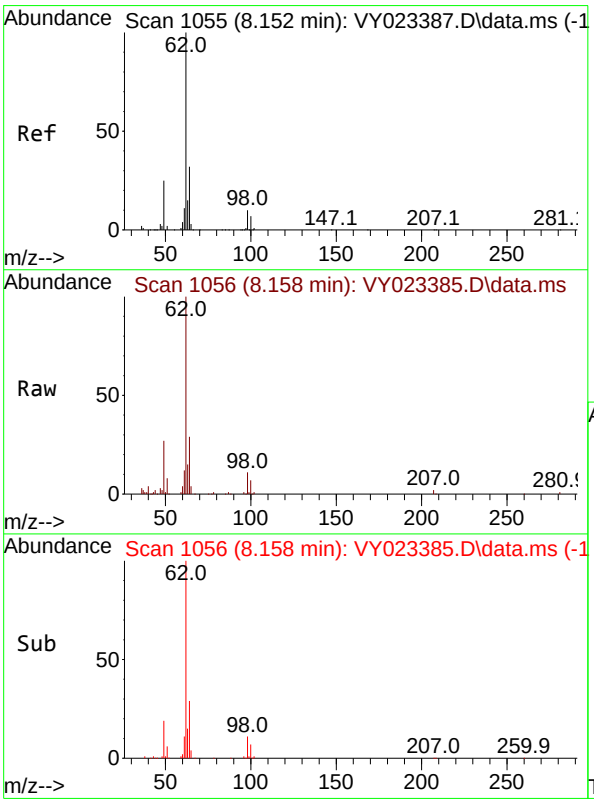
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 49.9 | 52.2 | 78.4 |
| 67 | 90.2 | 74.9 | 112.3 |
| 52 | 36.9 | 29.2 | 43.8 |




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

**Manual Integrations**
**APPROVED**

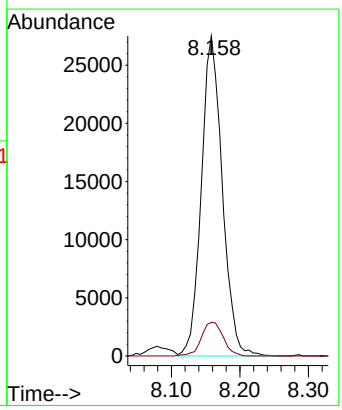
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

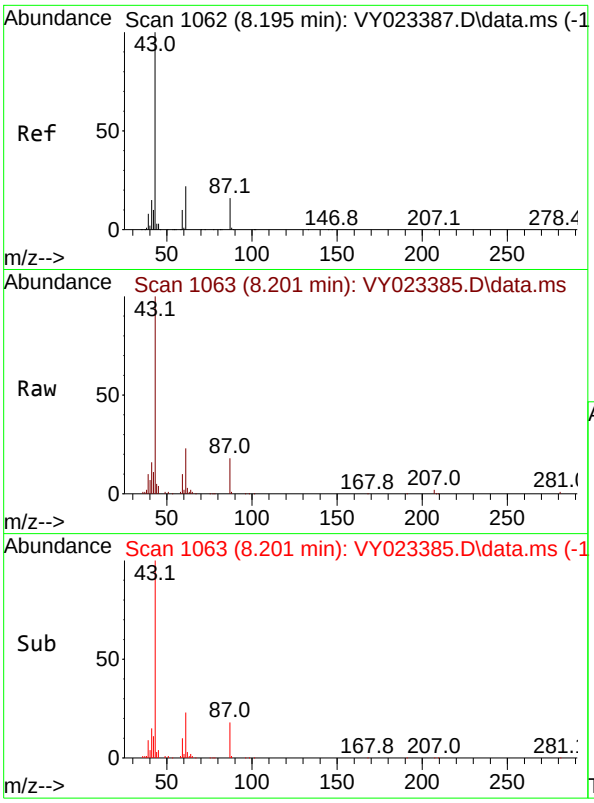



#42
1,2-Dichloroethane
Concen: 10.174 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 62 Resp: 58541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 11.0 | 0.0 | 21.6 |

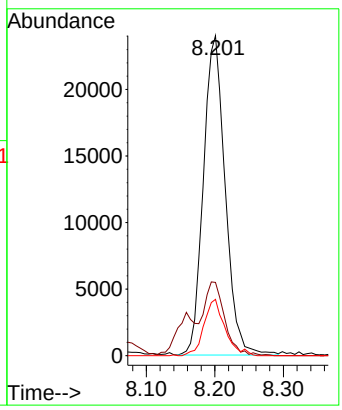





#43
Isopropyl Acetate
Concen: 9.510 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 5304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.4 | 18.1 | 27.1 |
| 87 | 17.0 | 13.5 | 20.3 |




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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
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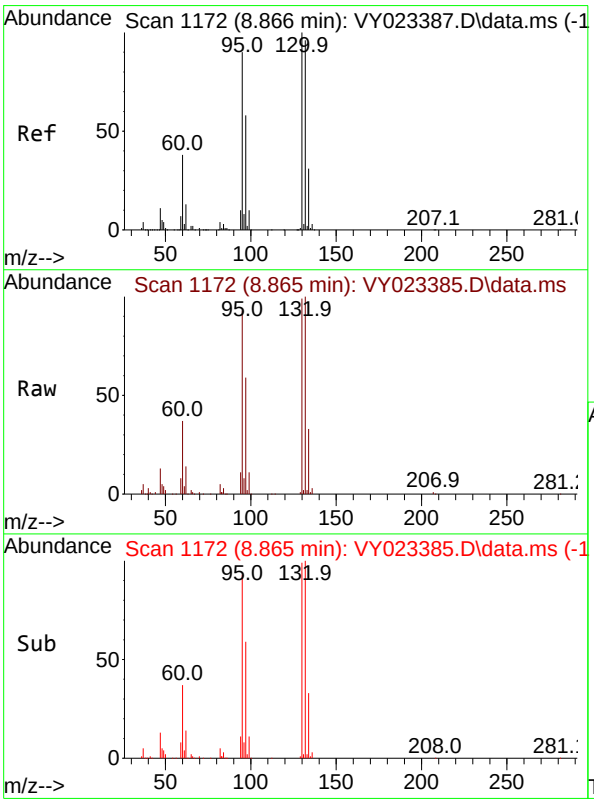
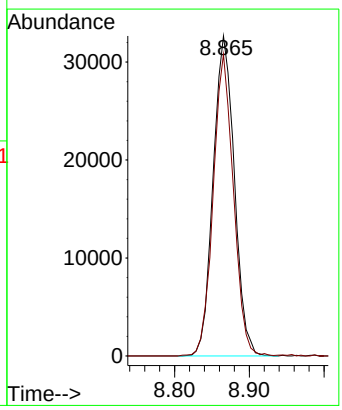
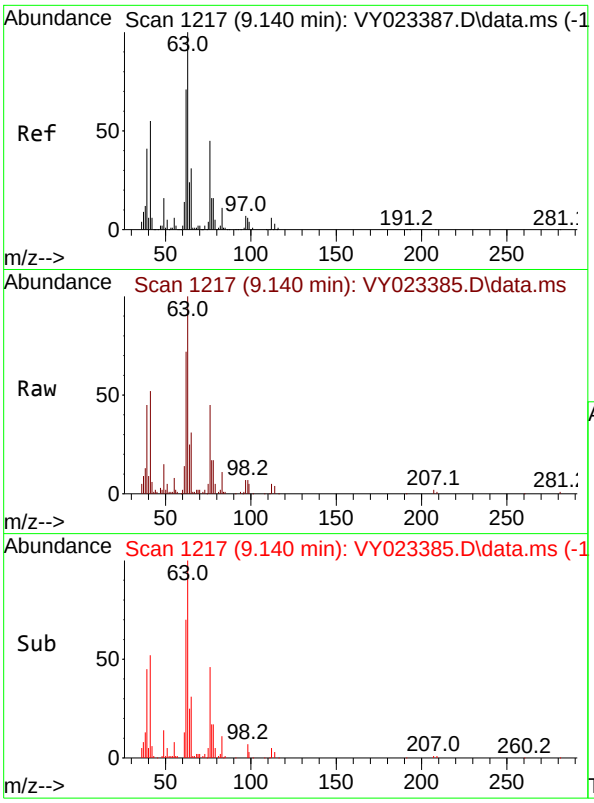



#44
Trichloroethene
Concen: 10.171 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:130 Resp: 64537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 94.2 | 0.0 | 180.6 |

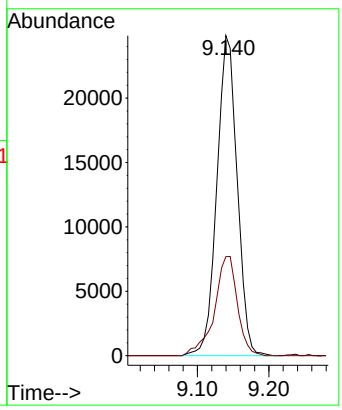





#45
1,2-Dichloropropane
Concen: 9.632 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 63 Resp: 4900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.0 | 24.9 | 37.3 |




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

**Manual Integrations**
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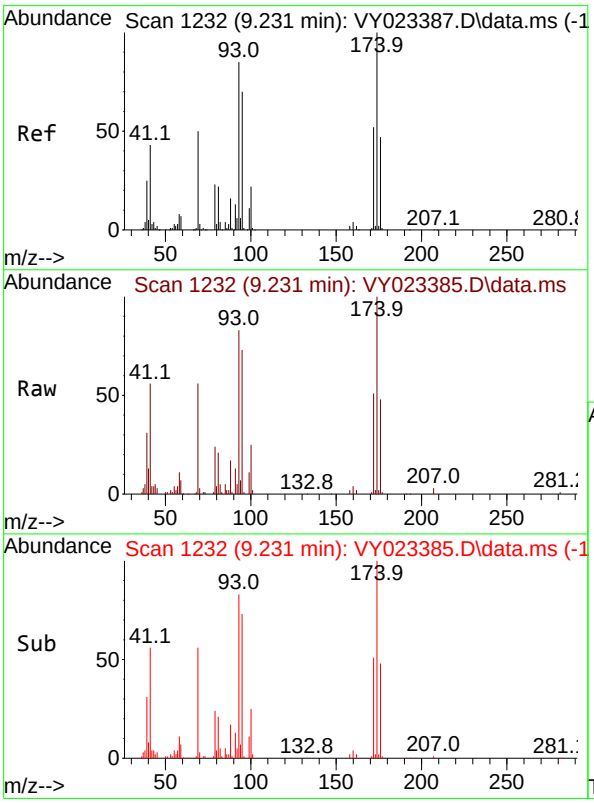
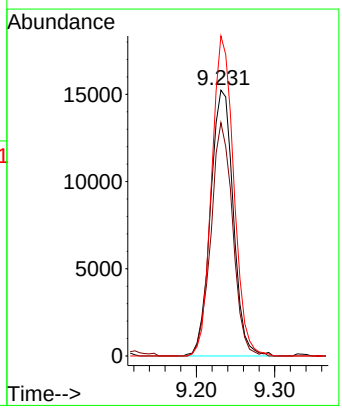
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

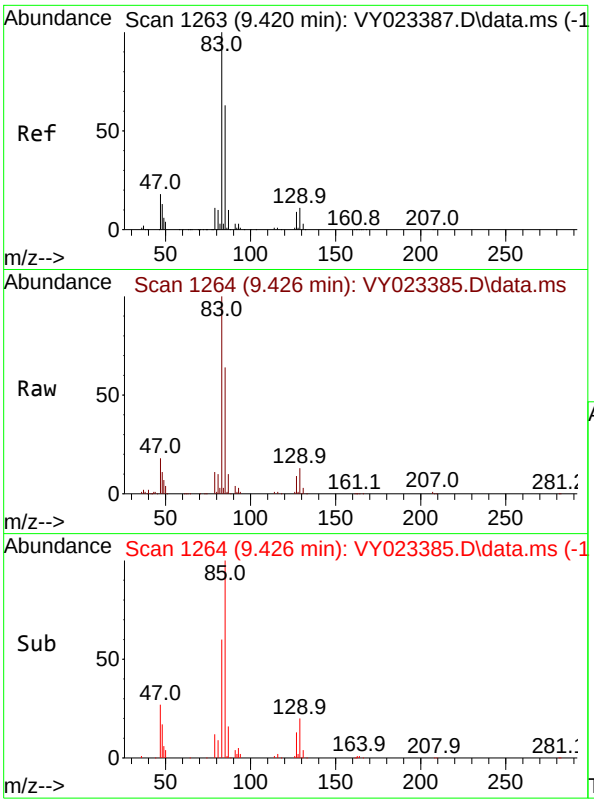



#46
Dibromomethane
Concen: 9.890 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 93 Resp: 30780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.7 | 65.4 | 98.0 |
| 174 | 116.7 | 92.9 | 139.3 |

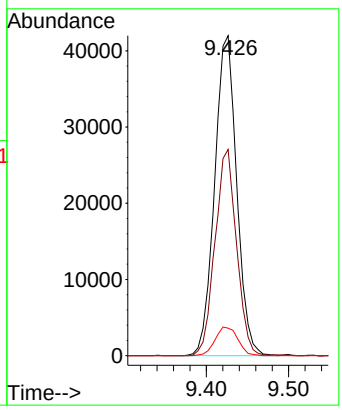





#47
Bromodichloromethane
Concen: 10.007 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 83 Resp: 7839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 50.8 | 76.2 |
| 127 | 8.6 | 7.4 | 11.2 |




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

**Manual Integrations**
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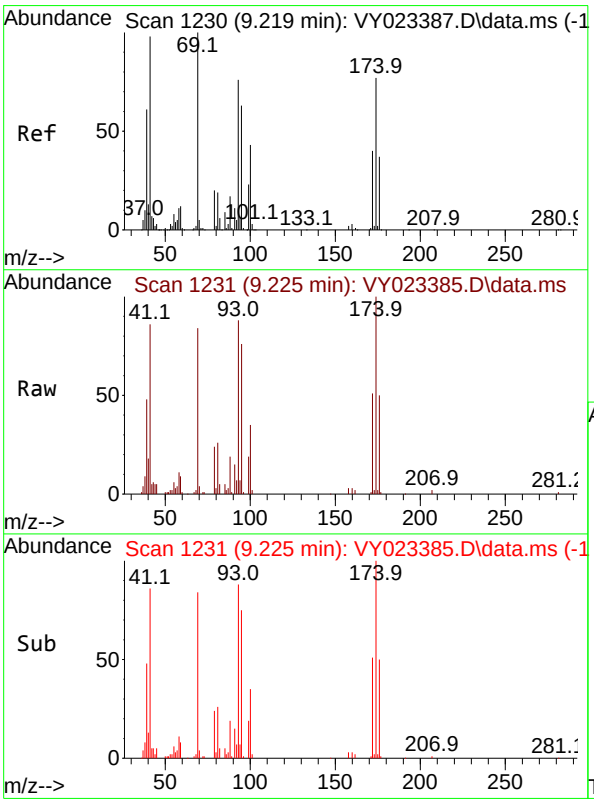
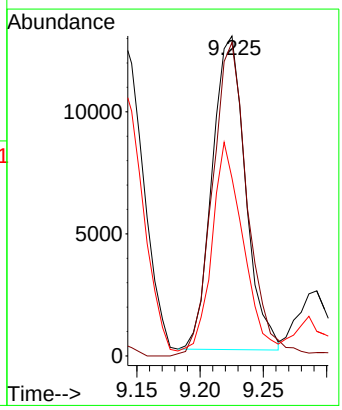
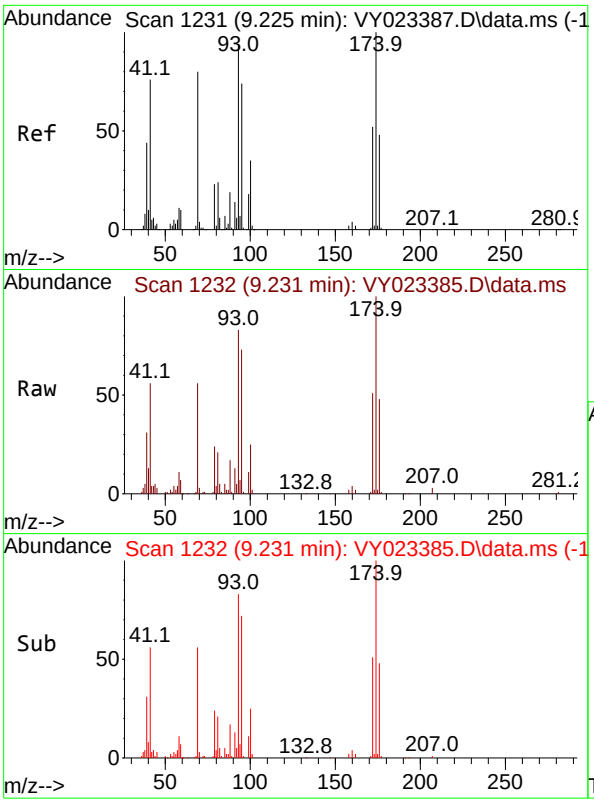



#48
Methyl methacrylate
Concen: 9.023 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 41 Resp: 23484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 105.8 | 81.0 | 121.4 |
| 39 | 61.4 | 48.2 | 72.4 |






#49
1,4-Dioxane
Concen: 211.693 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 88 Resp: 682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 32.1 | 21.8 | 32.8 |
| 58 | 62.0 | 46.8 | 70.2 |

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

**Manual Integrations**
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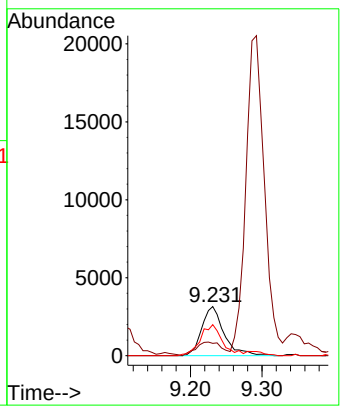
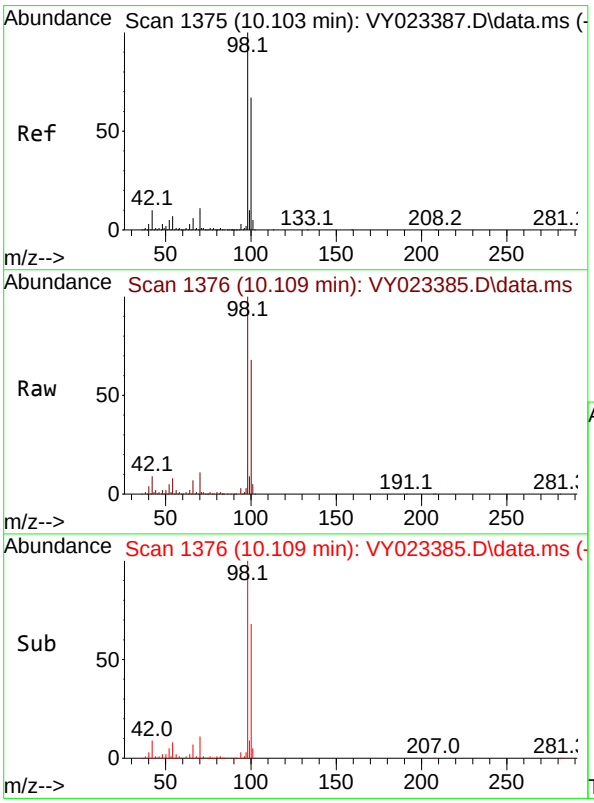
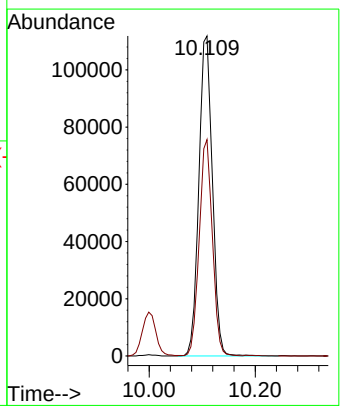


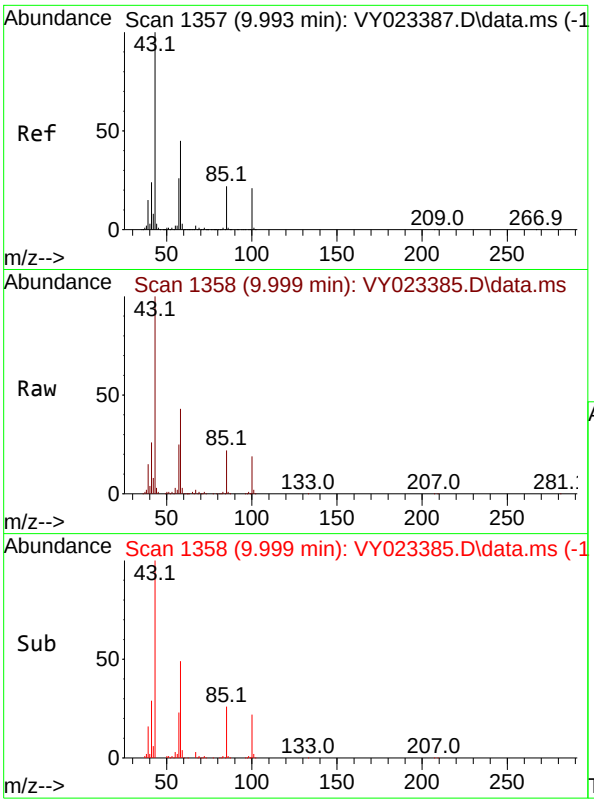




#50
Toluene-d8
Concen: 10.225 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 98 Resp: 198242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.6 | 53.0 | 79.4 |

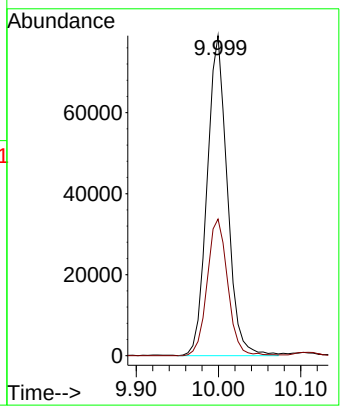





#51
4-Methyl-2-Pentanone
Concen: 47.165 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 13474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.5 | 35.3 | 52.9 |




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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
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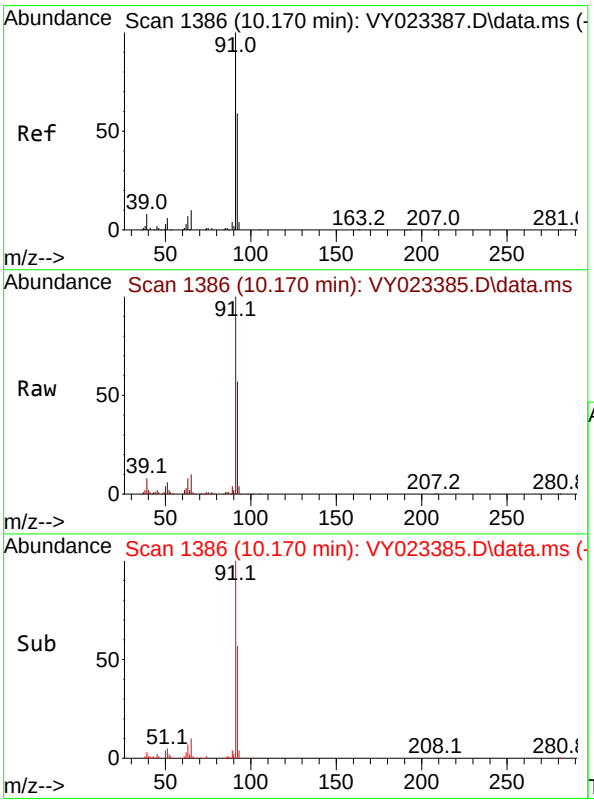
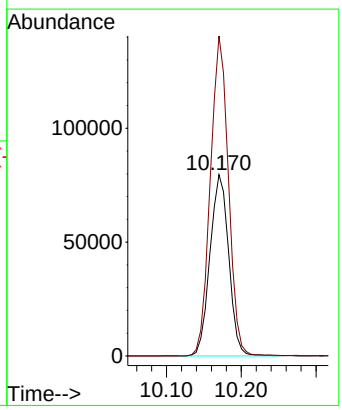
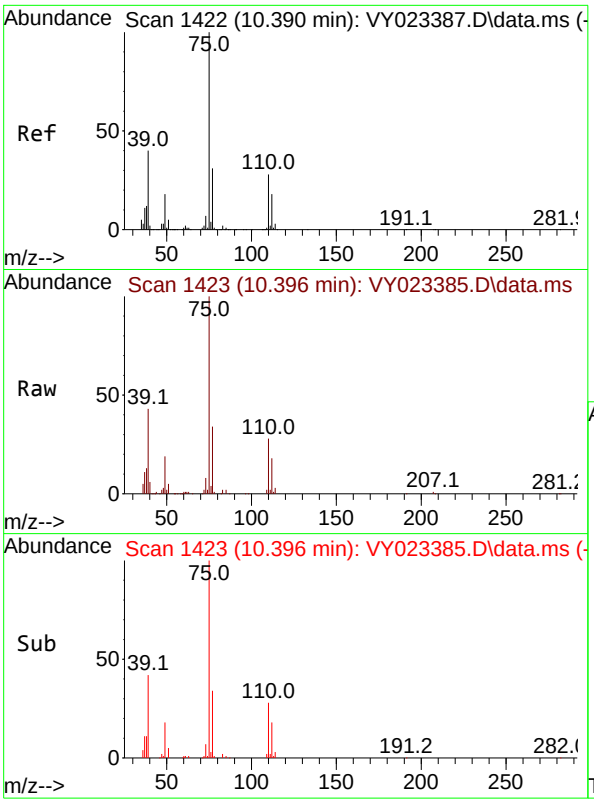



#52
Toluene
Concen: 9.661 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 92 Resp: 138662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.6 | 136.4 | 204.6 |

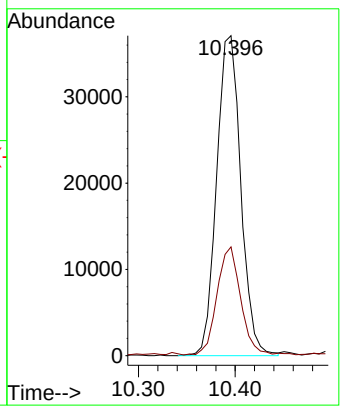





#53
t-1,3-Dichloropropene
Concen: 9.559 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 75 Resp: 6431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.4 | 25.1 | 37.7 |




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

**Manual Integrations**
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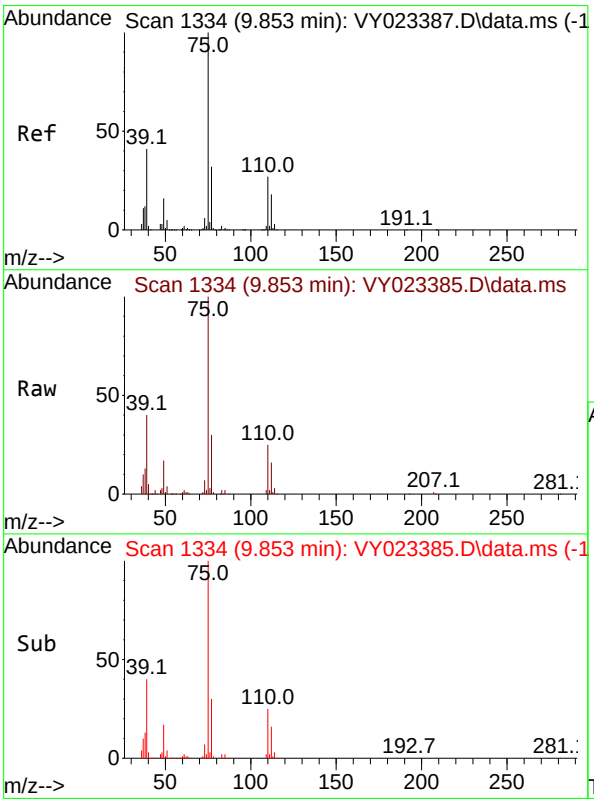
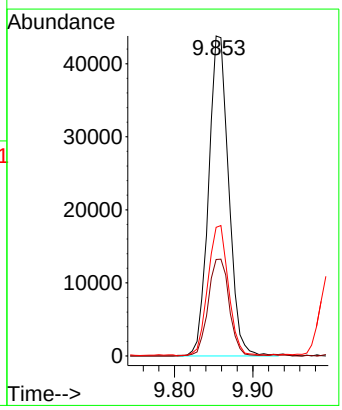
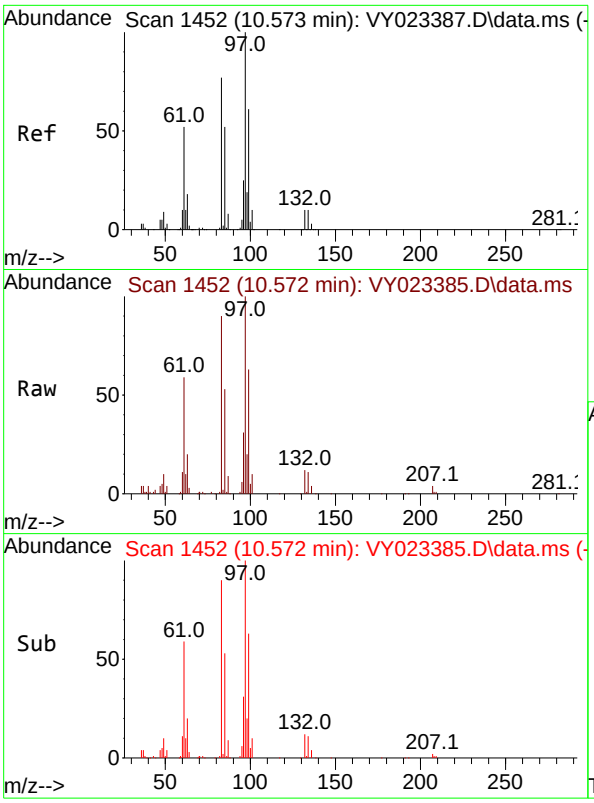



#54
cis-1,3-Dichloropropene
Concen: 9.687 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 75 Resp: 77905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.0 | 25.4 | 38.0 |
| 39 | 40.2 | 32.8 | 49.2 |

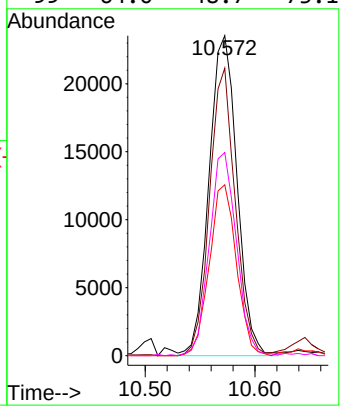





#55
1,1,2-Trichloroethane
Concen: 10.118 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 97 Resp: 4188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 90.6 | 61.8 | 92.6 |
| 85 | 53.8 | 41.3 | 61.9 |
| 99 | 64.0 | 48.7 | 73.1 |




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

**Manual Integrations**
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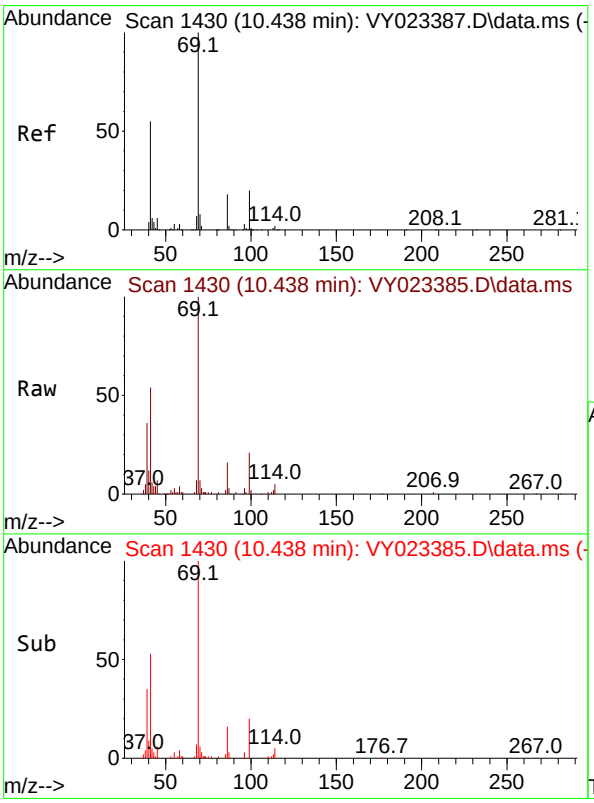
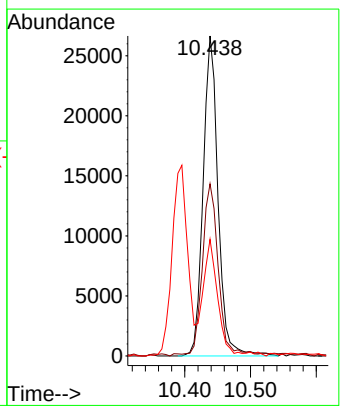
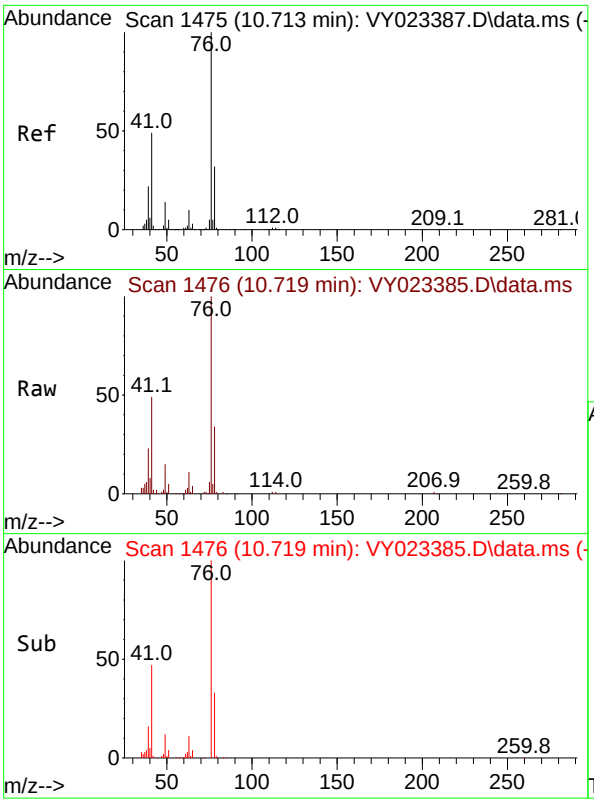



#56
Ethyl methacrylate
Concen: 8.830 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 69 Resp: 42096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 58.1 | 44.6 | 67.0 |
| 39 | 34.5 | 27.0 | 40.4 |

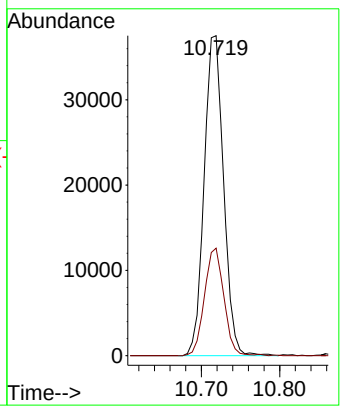





#57
1,3-Dichloropropane
Concen: 9.633 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 76 Resp: 6453

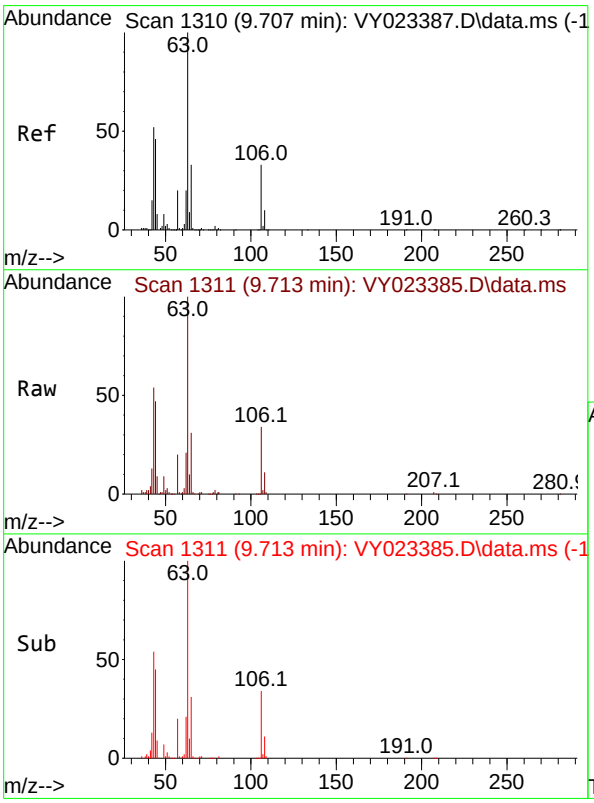
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.6 | 25.9 | 38.9 |




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

**Manual Integrations**
**APPROVED**

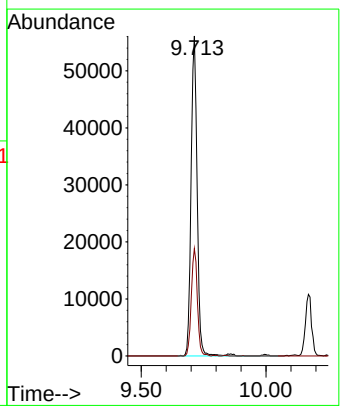
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

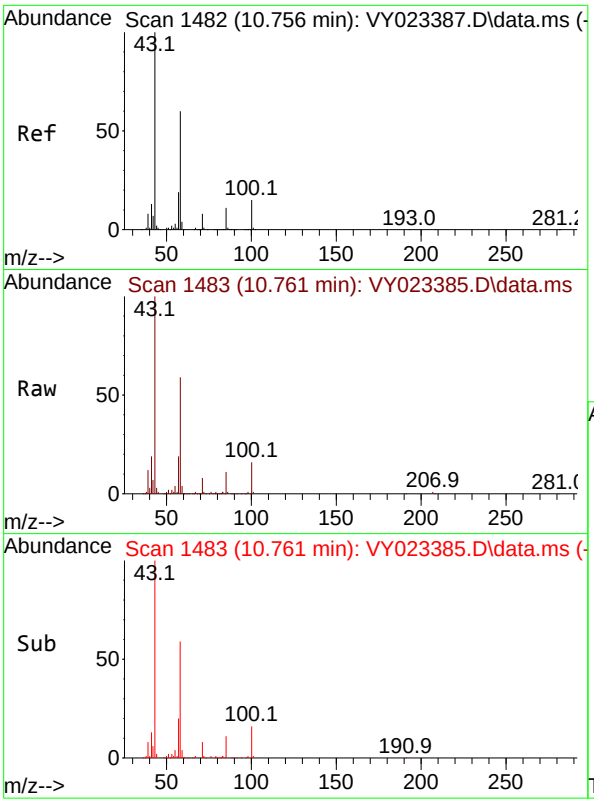



#58
2-Chloroethyl Vinyl ether
Concen: 45.535 ug/l m
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 63 Resp: 94970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 33.4 | 26.6 | 39.8 |

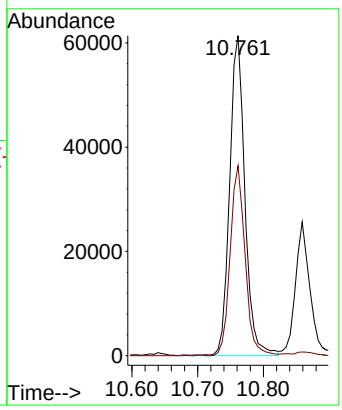





#59
2-Hexanone
Concen: 50.138 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 9917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.0 | 30.5 | 91.5 |




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

**Manual Integrations**
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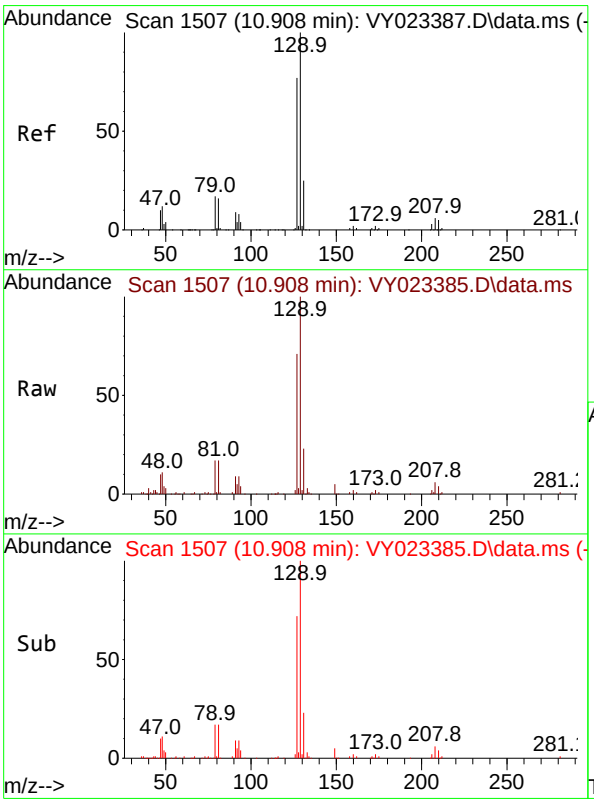
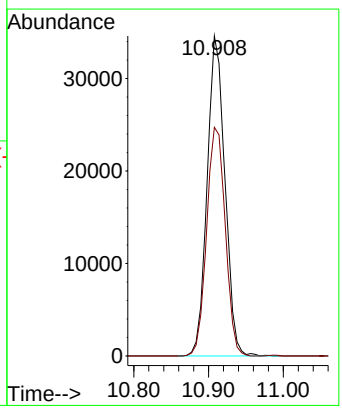
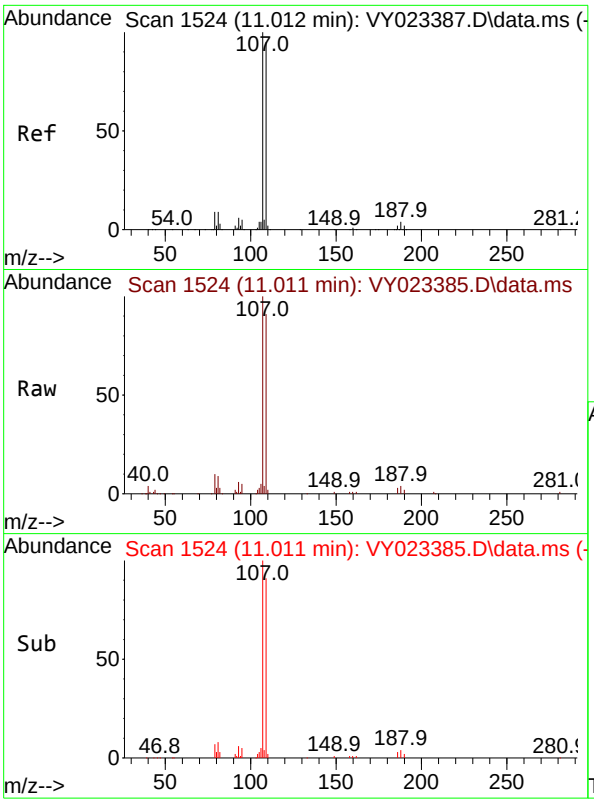



#60
Dibromochloromethane
Concen: 10.123 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:129 Resp: 57151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 74.9 | 38.6 | 115.7 |






#61
1,2-Dibromoethane
Concen: 9.979 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:107 Resp: 3886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.8 | 76.1 | 114.1 |

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

**Manual Integrations**
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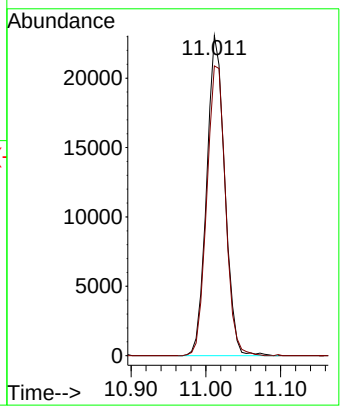
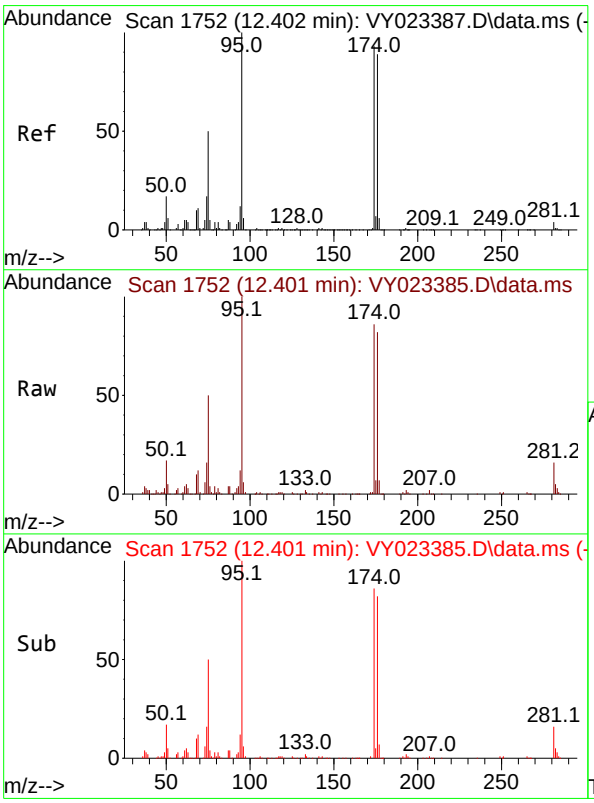
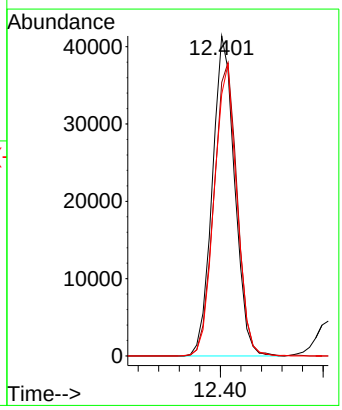


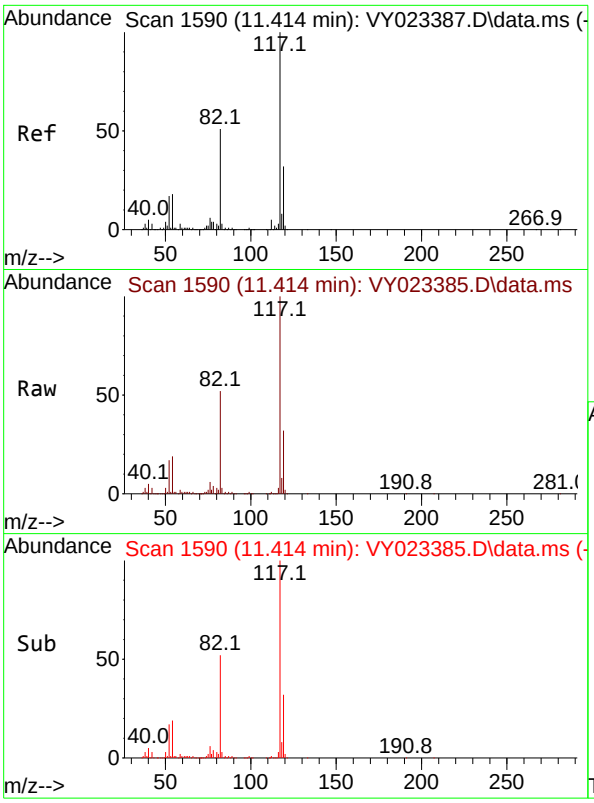




#62
4-Bromofluorobenzene
Concen: 10.235 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 95 Resp: 62601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 94.6 | 0.0 | 192.8 |
| 176 | 92.1 | 0.0 | 187.6 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:117 Resp: 73615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 51.8 | 41.0 | 61.4 |
| 119 | 32.3 | 25.6 | 38.4 |

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

**Manual Integrations**
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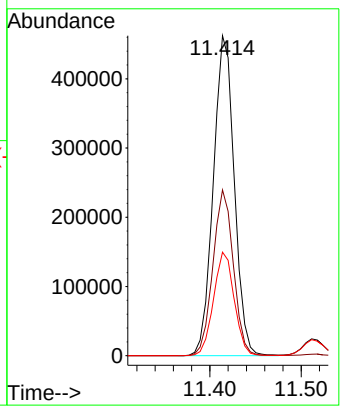
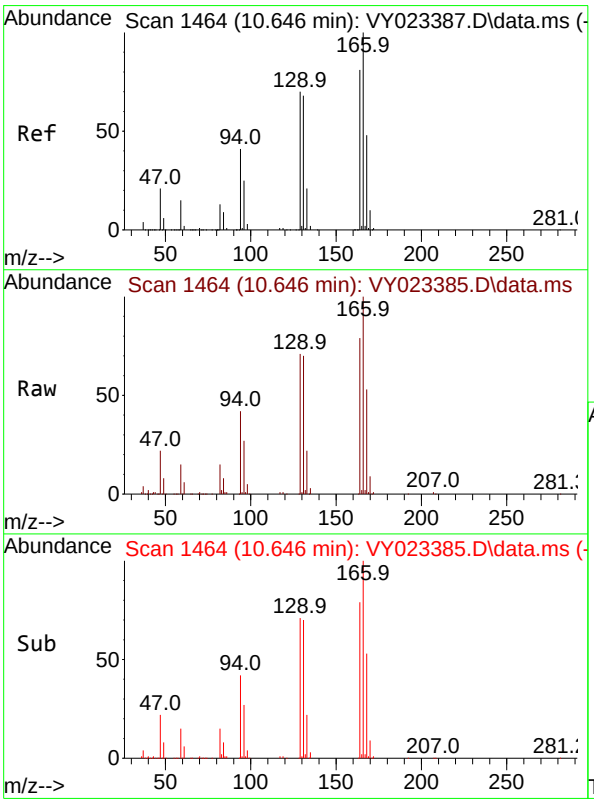
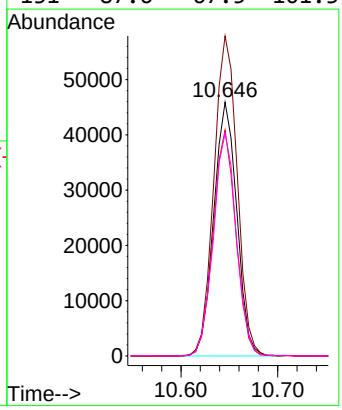


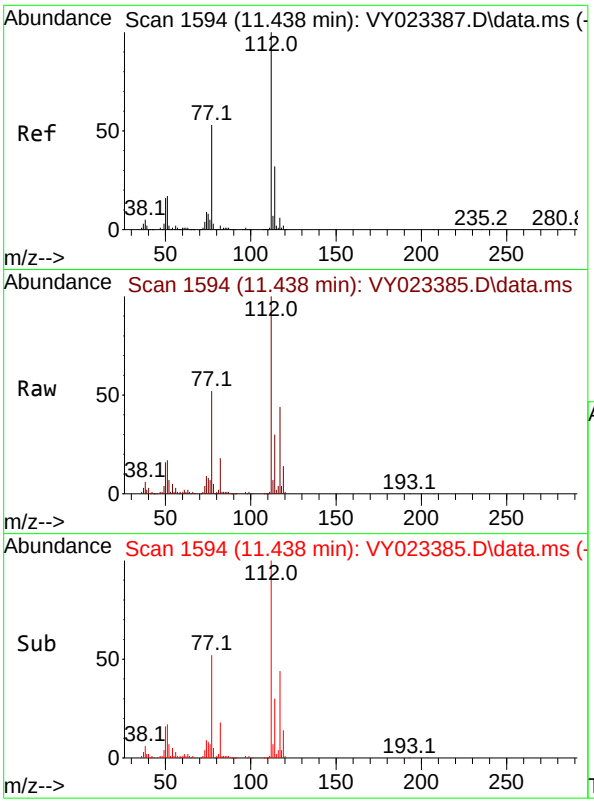




#64
Tetrachloroethene
Concen: 10.335 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:164 Resp: 76110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.1 | 99.4 | 149.0 |
| 129 | 89.0 | 69.4 | 104.2 |
| 131 | 87.6 | 67.5 | 101.3 |

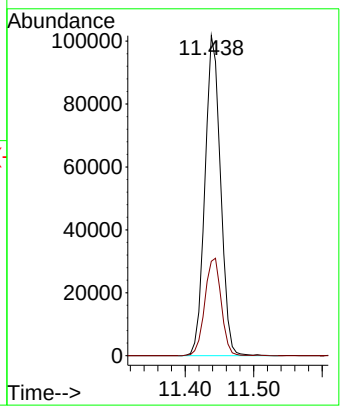





#65
Chlorobenzene
Concen: 10.074 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:112 Resp: 16115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 29.5 | 25.6 | 38.4 |




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

**Manual Integrations**
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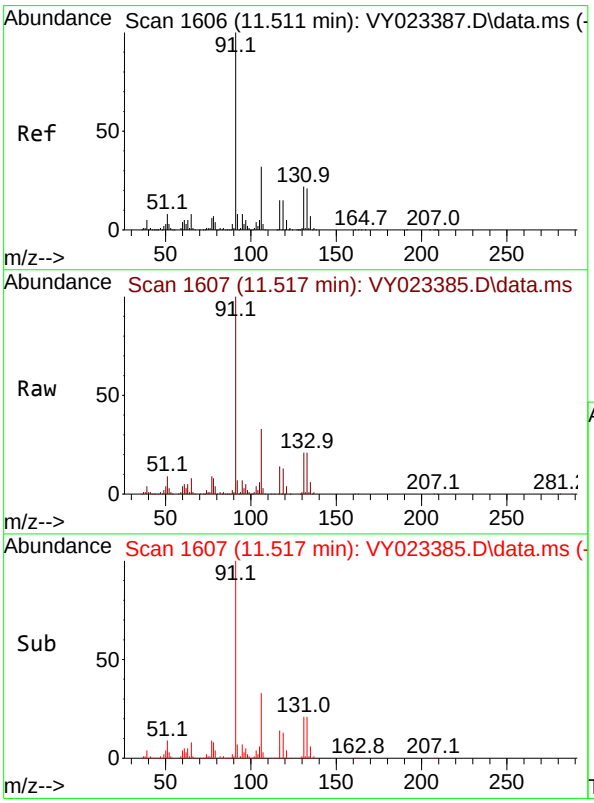
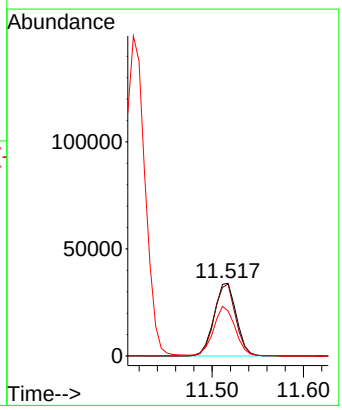
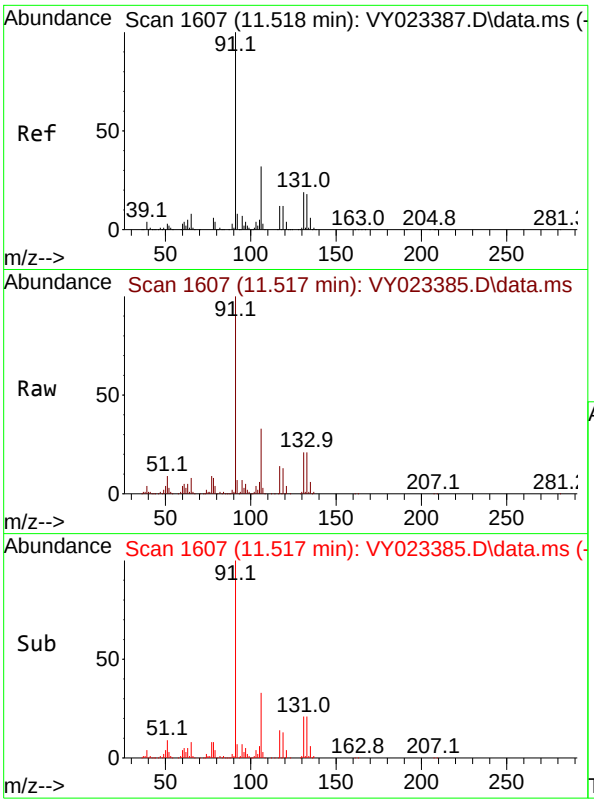



#66
1,1,1,2-Tetrachloroethane
Concen: 10.173 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:131 Resp: 57233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.8 | 48.4 | 145.2 |
| 119 | 66.9 | 32.4 | 97.2 |

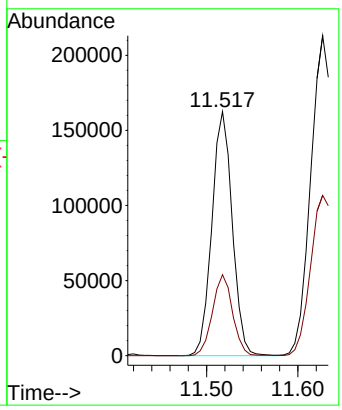





#67
Ethyl Benzene
Concen: 9.651 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 91 Resp: 25195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 33.1 | 25.8 | 38.8 |




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

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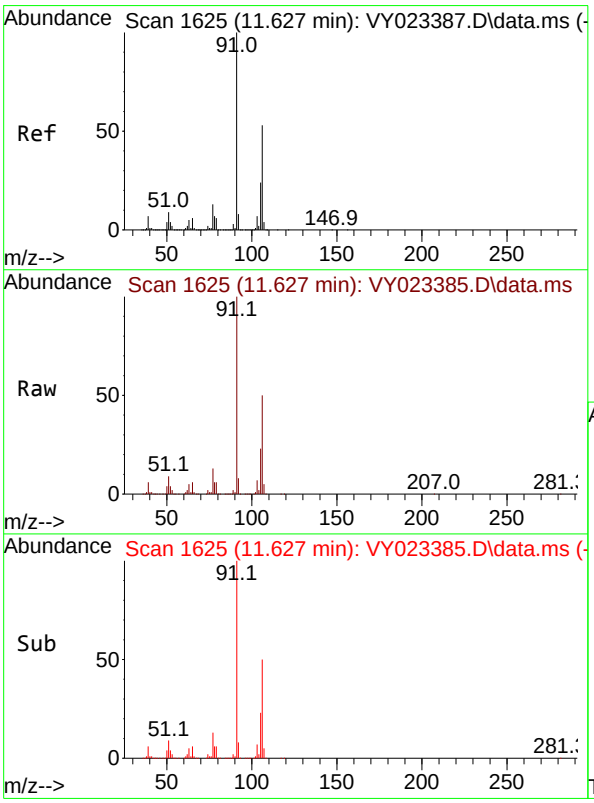
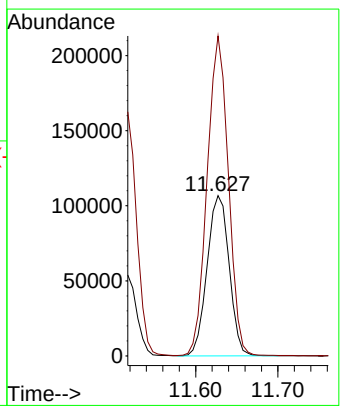
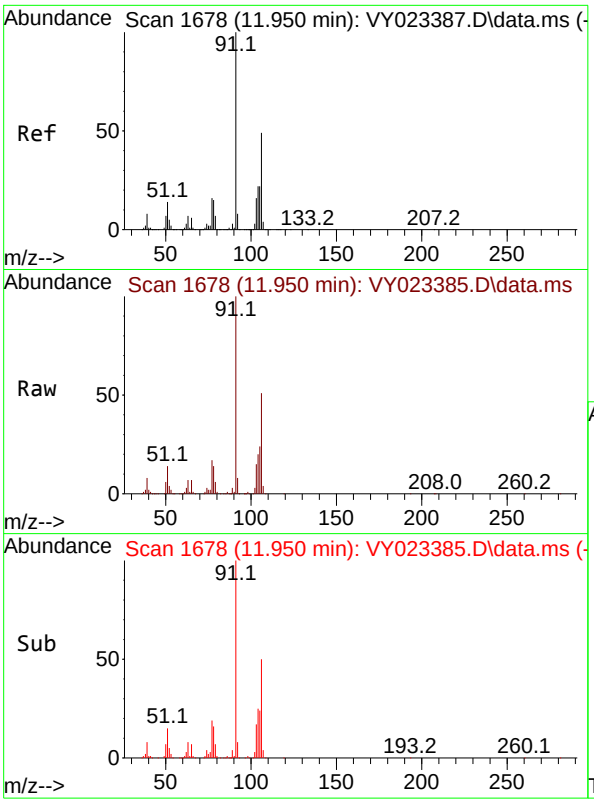



#68
m/p-Xylenes
Concen: 19.004 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:106 Resp: 198866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 192.3 | 152.6 | 229.0 |

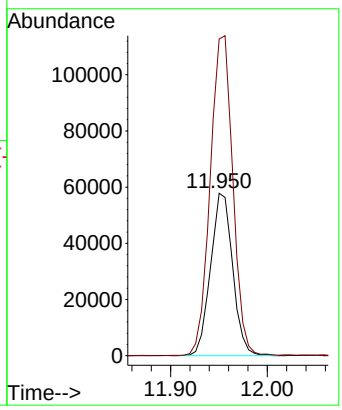





#69
o-Xylene
Concen: 9.467 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:106 Resp: 9171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.0 | 101.4 | 304.1 |




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

**Manual Integrations**
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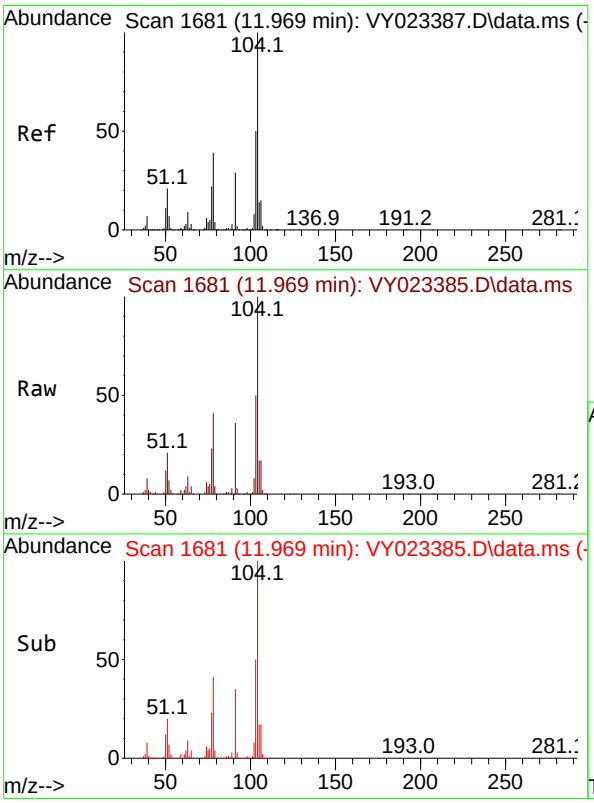
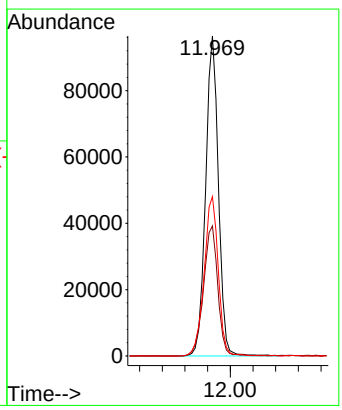
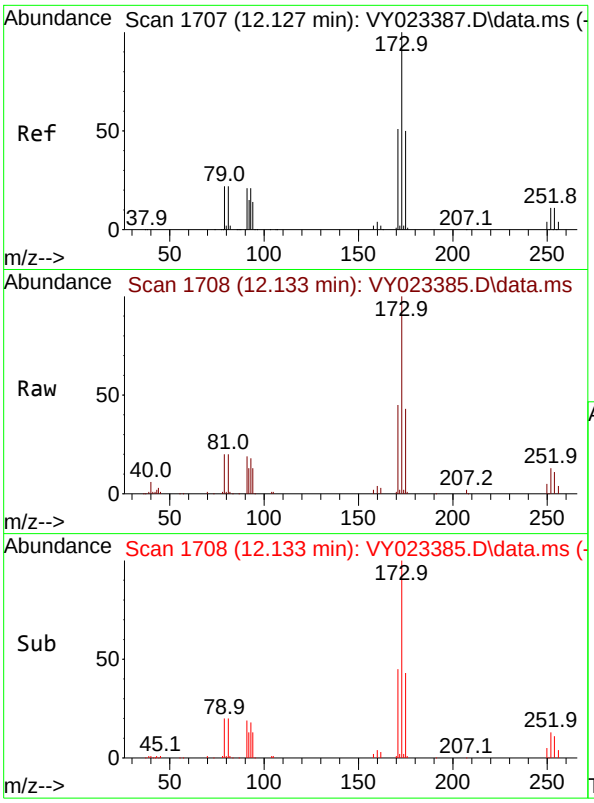



#70
Styrene
Concen: 9.446 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:104 Resp: 151094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 45.4 | 36.1 | 54.1 |
| 103 | 55.0 | 43.2 | 64.8 |

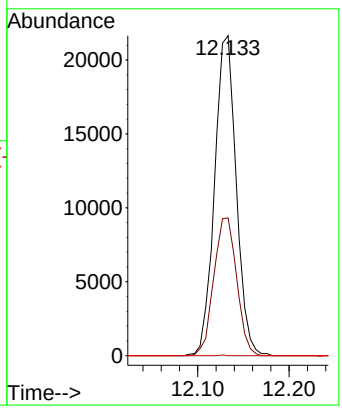





#71
Bromoform
Concen: 10.595 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:173 Resp: 3568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 45.5 | 24.8 | 74.3 |
| 254 | 0.1 | 0.1 | 0.1 |




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

**Manual Integrations**
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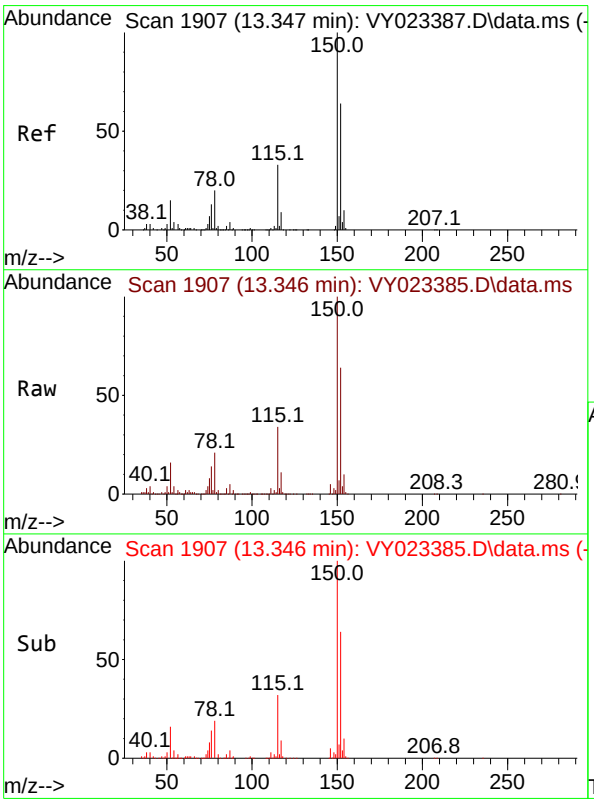
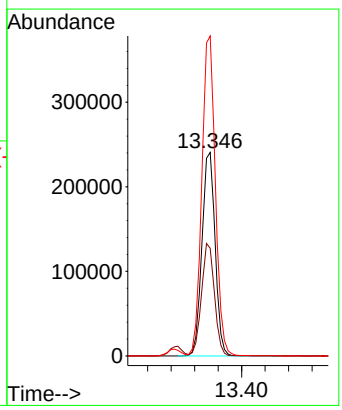
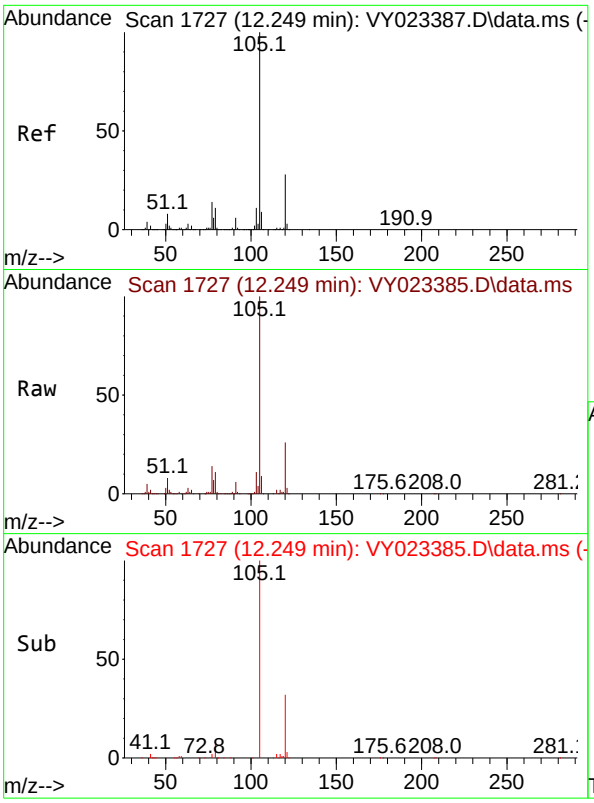



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:152 Resp: 374998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 54.2 | 27.1 | 81.2 |
| 150 | 160.7 | 0.0 | 347.4 |

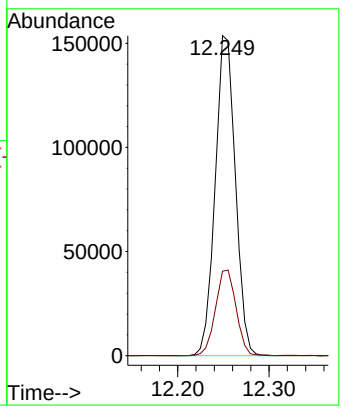





#73
Isopropylbenzene
Concen: 9.467 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:105 Resp: 23648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.3 | 13.9 | 41.7 |




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

**Manual Integrations**
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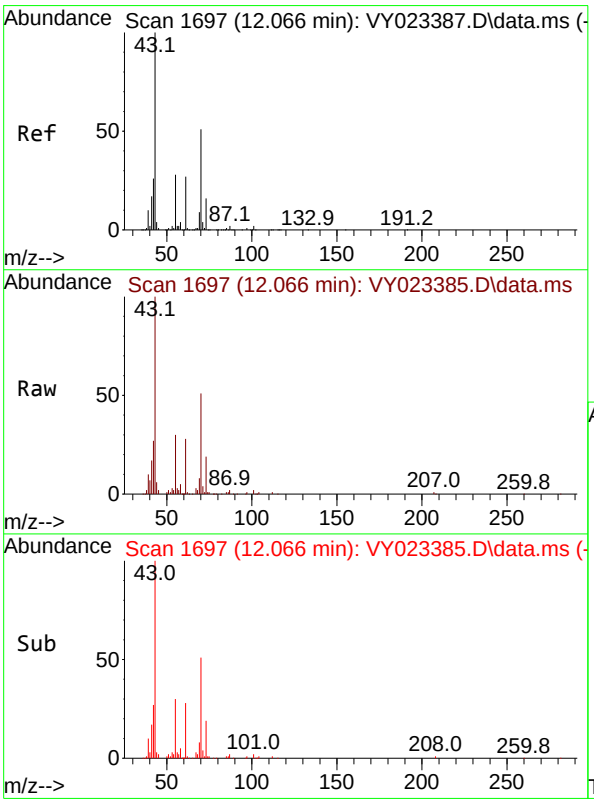
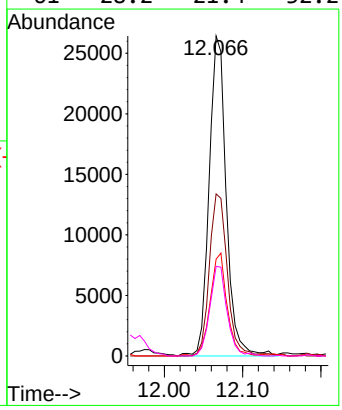
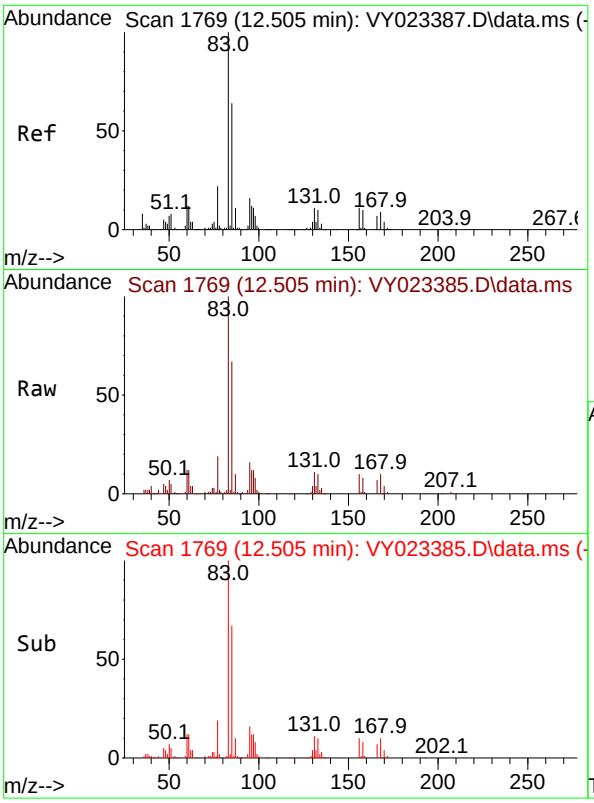



#74
N-amyl acetate
Concen: 8.590 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 40098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 52.7 | 41.1 | 61.7 |
| 55 | 31.6 | 23.0 | 34.6 |
| 61 | 28.2 | 21.4 | 32.2 |






#75
1,1,2,2-Tetrachloroethane
Concen: 9.871 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

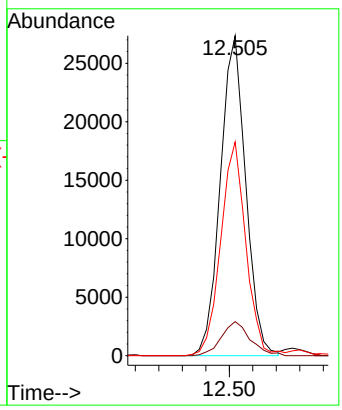
Tgt Ion: 83 Resp: 4113

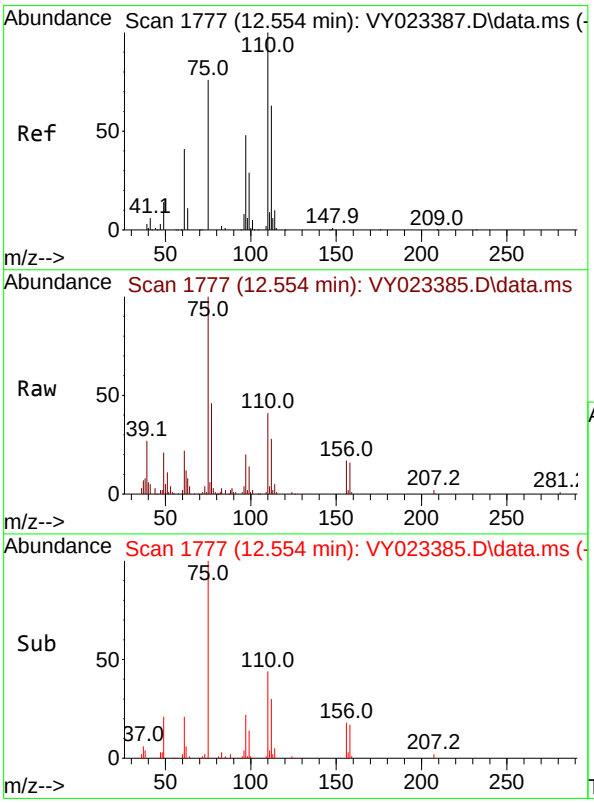
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 12.0 | 5.9 | 17.6 |
| 85 | 66.1 | 31.8 | 95.3 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

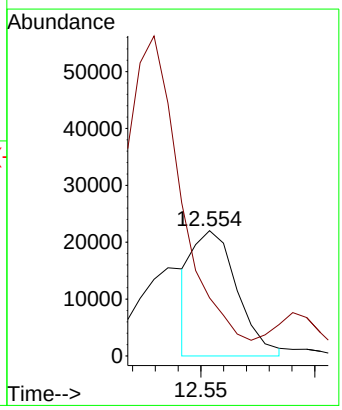


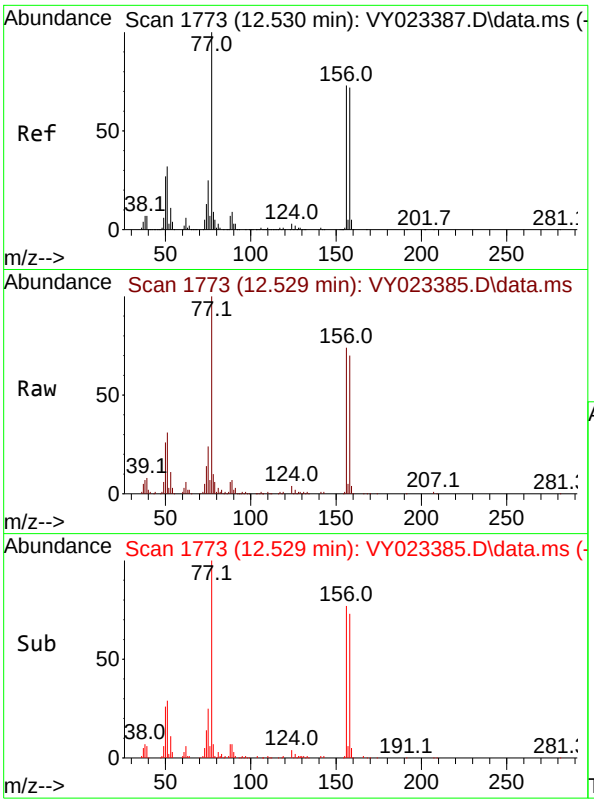




#76
1,2,3-Trichloropropane
Concen: 8.095 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 75 Resp: 29944

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

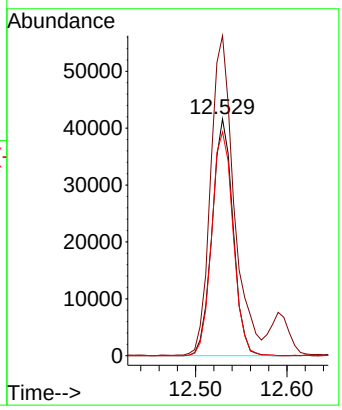





#77
Bromobenzene
Concen: 10.295 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:156 Resp: 6600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 151.8 | 76.8 | 230.5 |
| 158 | 97.0 | 49.0 | 147.2 |




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

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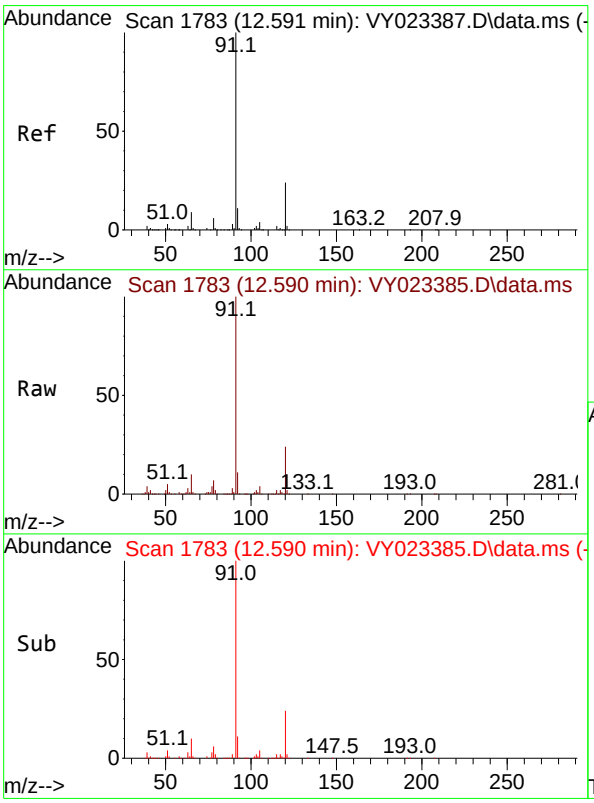
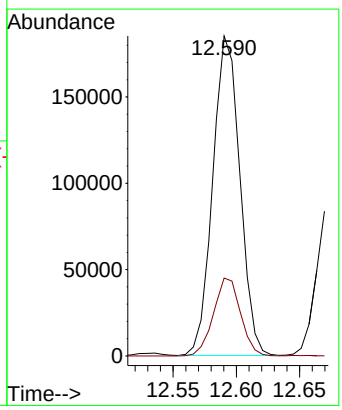
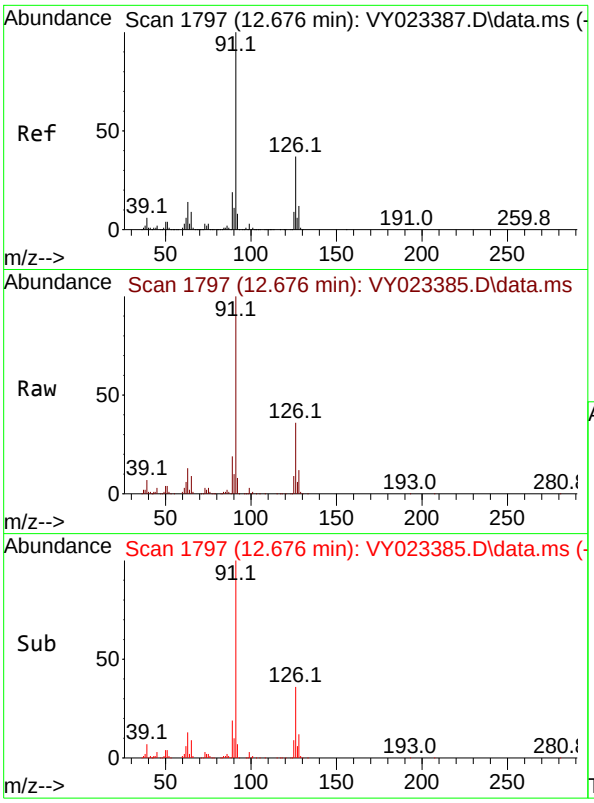



#78
n-propylbenzene
Concen: 9.384 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 91 Resp: 275671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.4 | 12.3 | 36.8 |

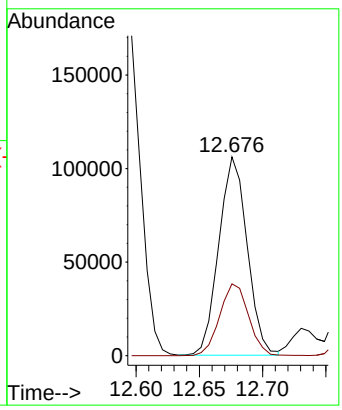





#79
2-Chlorotoluene
Concen: 9.762 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 91 Resp: 16558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.9 | 18.5 | 55.5 |

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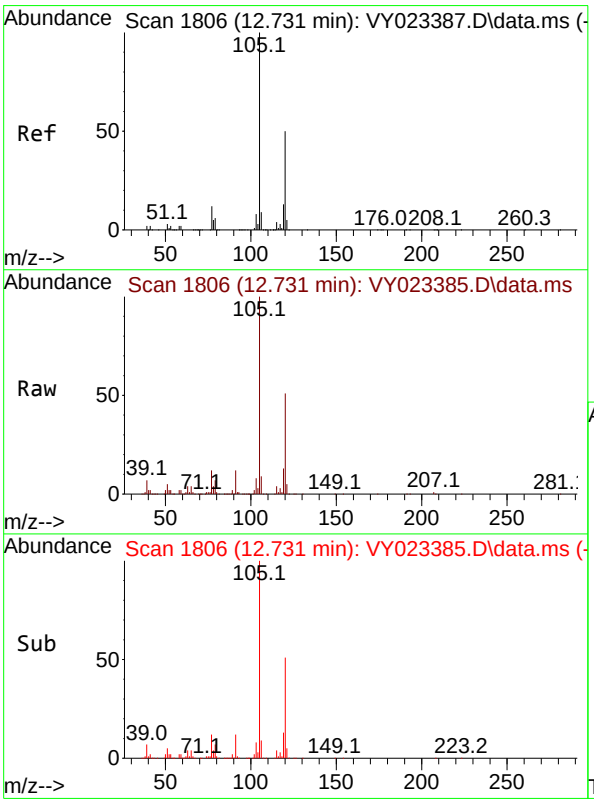
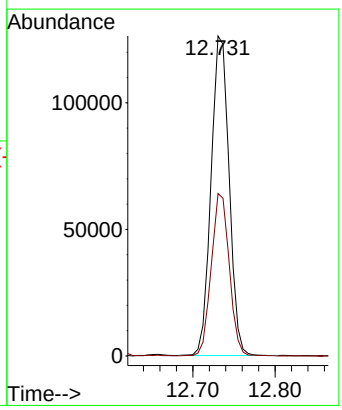
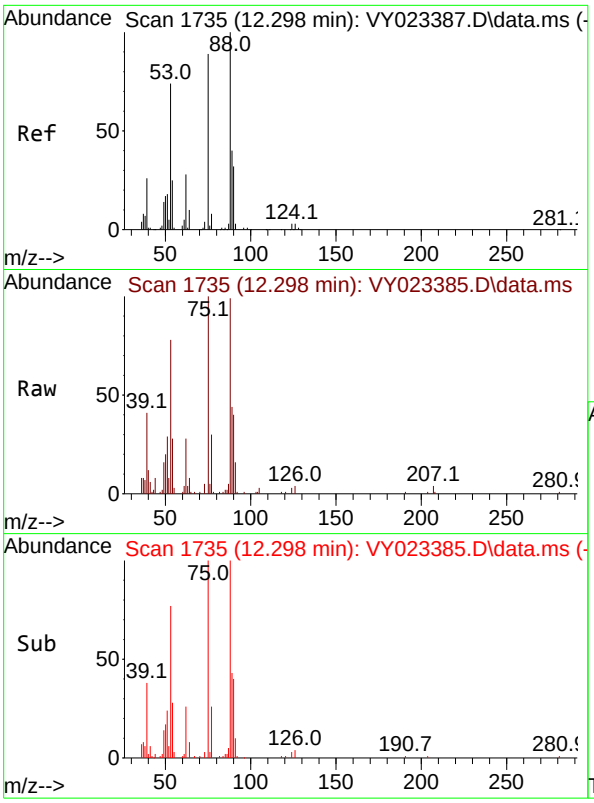



#80
1,3,5-Trimethylbenzene
Concen: 9.445 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:105 Resp: 191799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.9 | 25.4 | 76.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 9.556 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 75 Resp: 1311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 84.6 | 68.6 | 102.8 |
| 89 | 48.5 | 39.0 | 58.4 |

**Instrument :**
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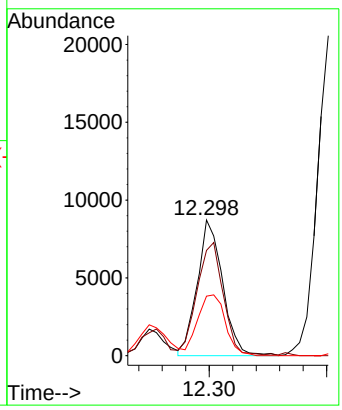
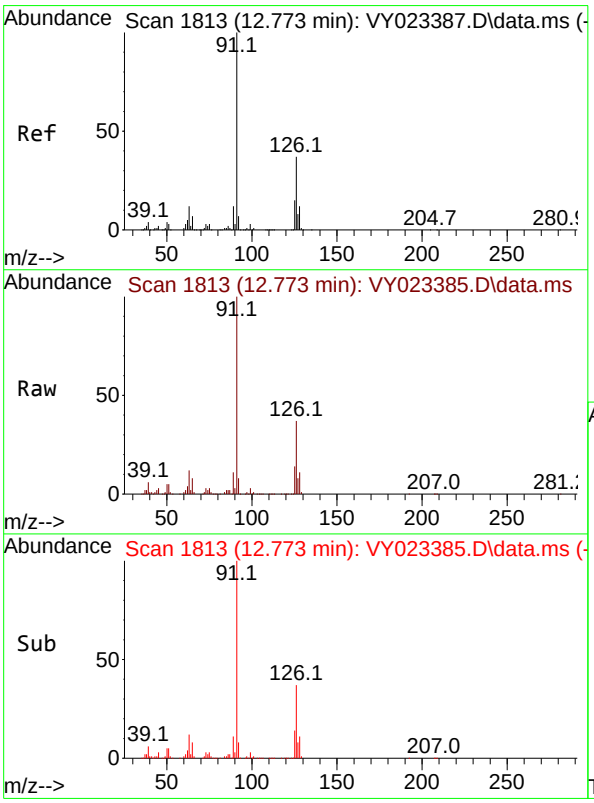
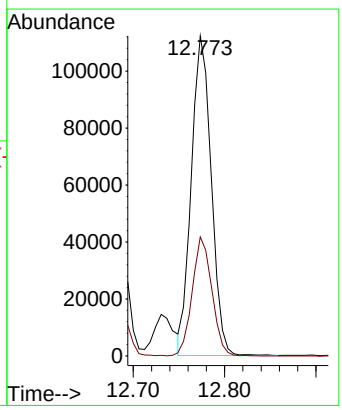


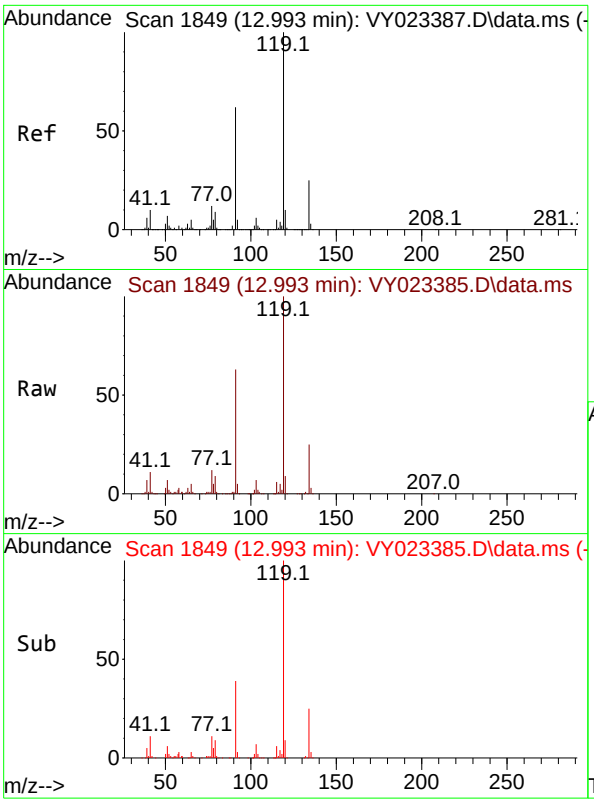




#82
4-Chlorotoluene
Concen: 9.595 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 91 Resp: 169968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.8 | 18.4 | 55.4 |






#83
tert-Butylbenzene
Concen: 9.579 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:119 Resp: 17725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 60.5 | 29.9 | 89.8 |
| 134 | 25.6 | 12.9 | 38.7 |

**Instrument :**
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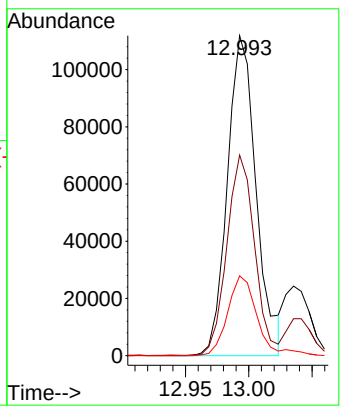
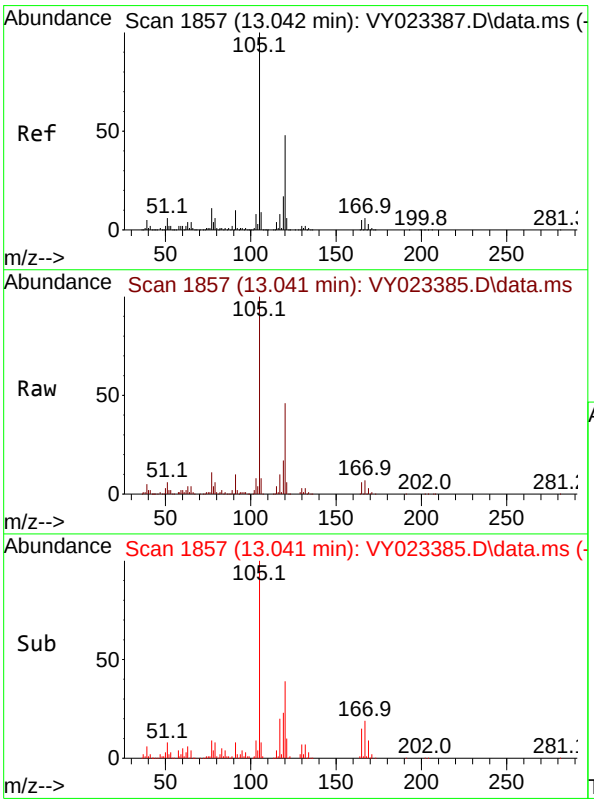
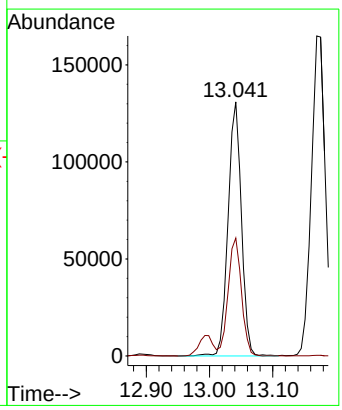


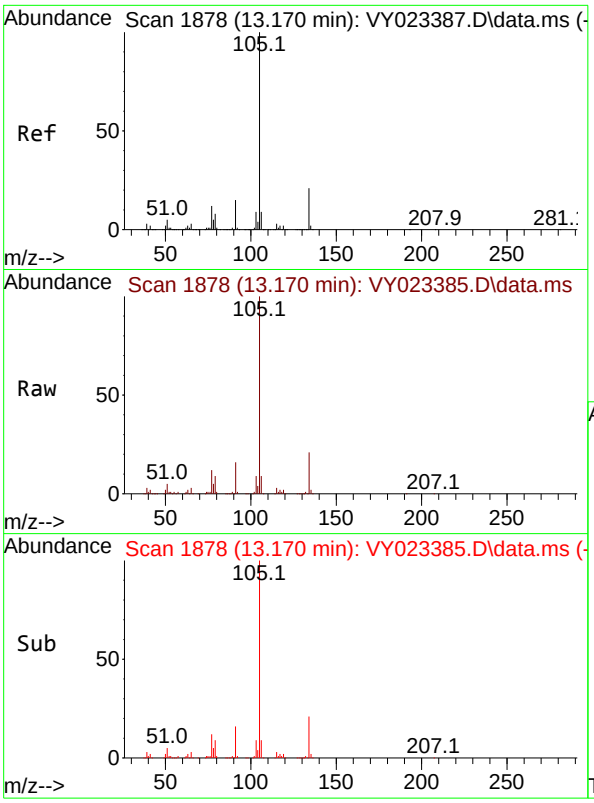




#84
1,2,4-Trimethylbenzene
Concen: 9.528 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:105 Resp: 191423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.4 | 23.8 | 71.2 |






#85
sec-Butylbenzene
Concen: 9.483 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:105 Resp: 25413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.4 | 10.7 | 32.1 |

**Instrument :**
MSVOA_Y
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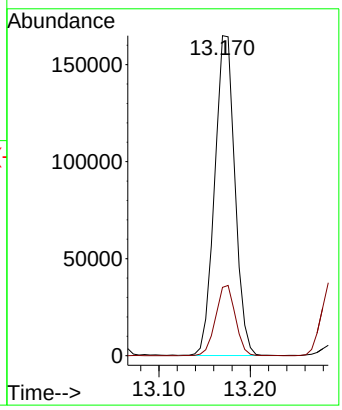
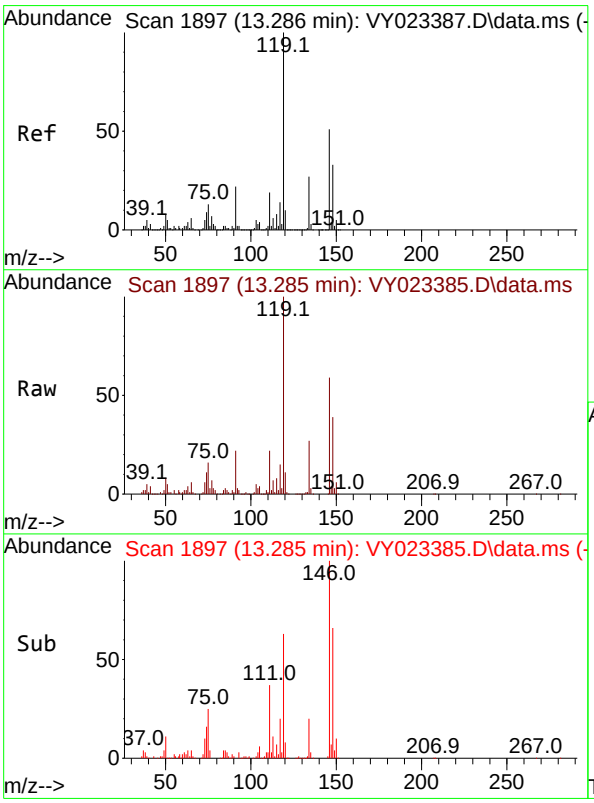
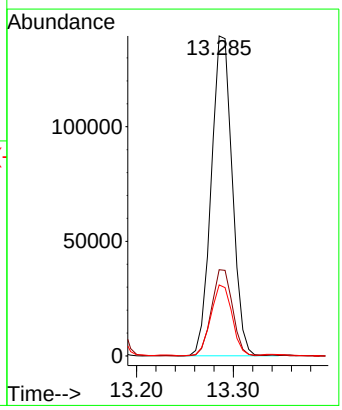


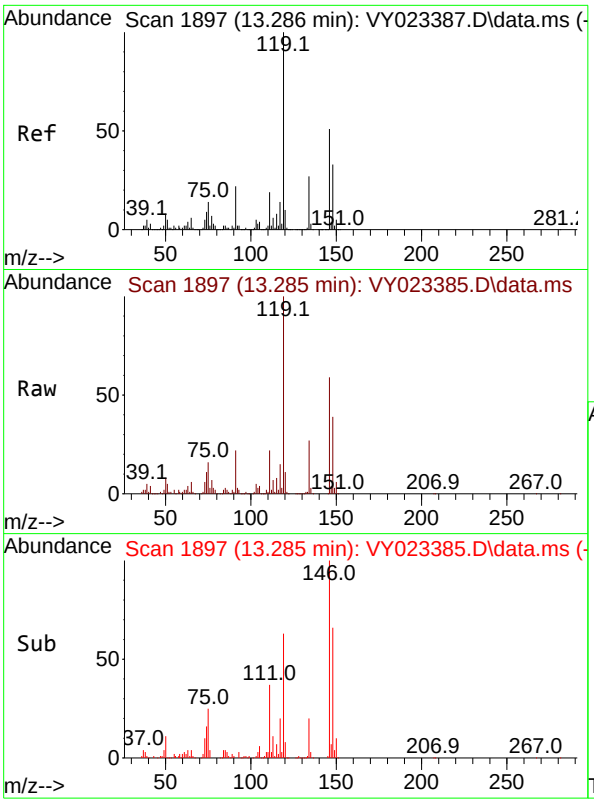




#86
p-Isopropyltoluene
Concen: 9.287 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:119 Resp: 210320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 27.0 | 13.6 | 40.7 |
| 91 | 22.3 | 10.9 | 32.9 |

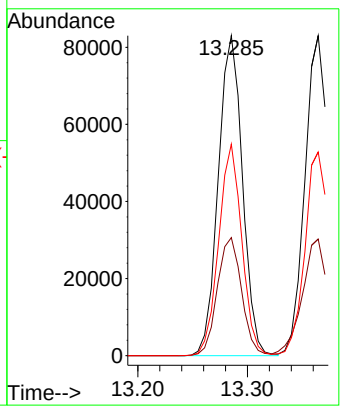





#87
1,3-Dichlorobenzene
Concen: 10.058 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:146 Resp: 12737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.1 | 18.7 | 56.1 |
| 148 | 63.2 | 31.9 | 95.9 |

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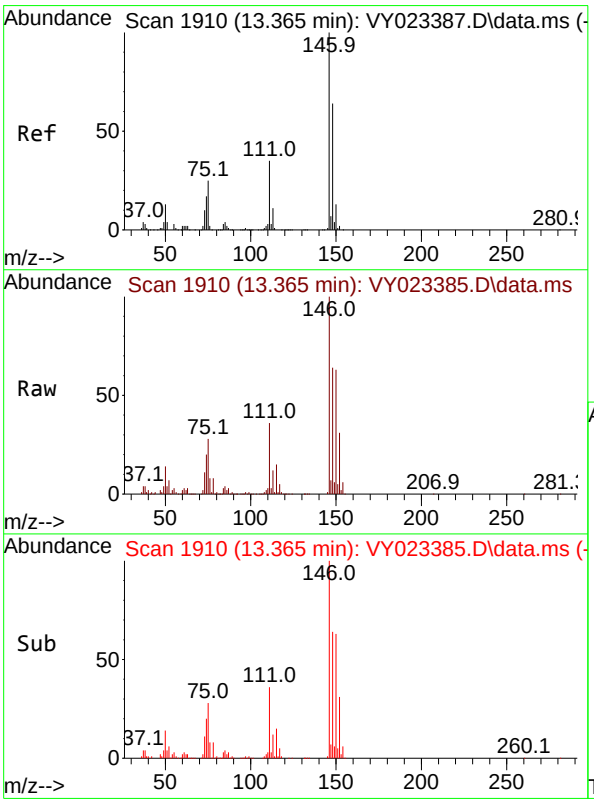
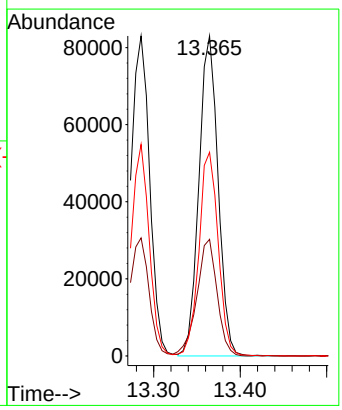
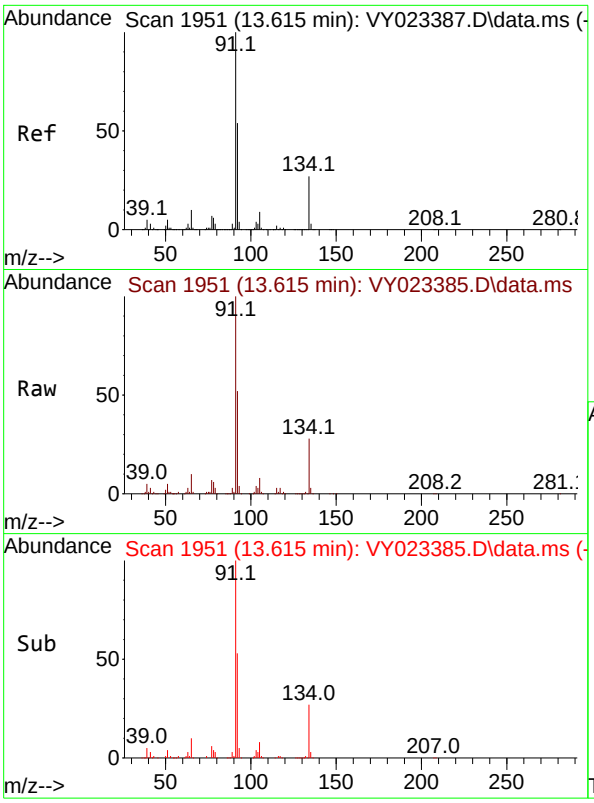



#88
1,4-Dichlorobenzene
Concen: 10.172 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:146 Resp: 127757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.6 | 18.0 | 54.0 |
| 148 | 64.2 | 31.9 | 95.7 |

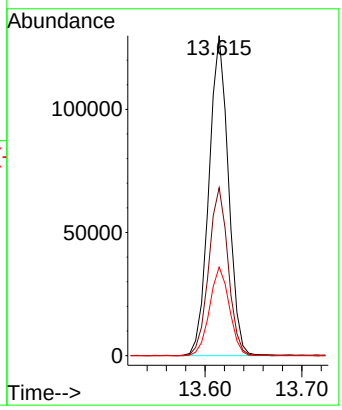





#89
n-Butylbenzene
Concen: 9.107 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 91 Resp: 18211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.2 | 27.0 | 80.8 |
| 134 | 28.0 | 14.1 | 42.2 |

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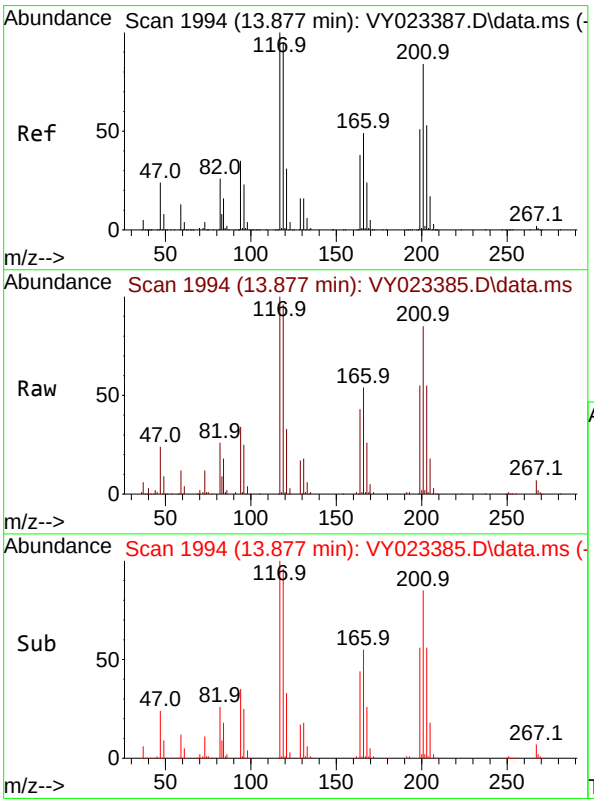
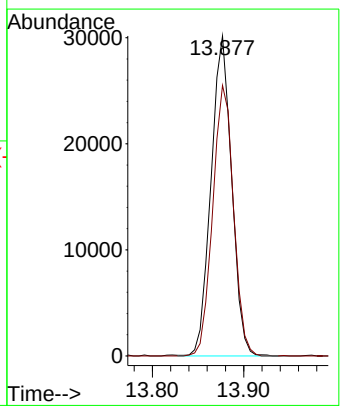
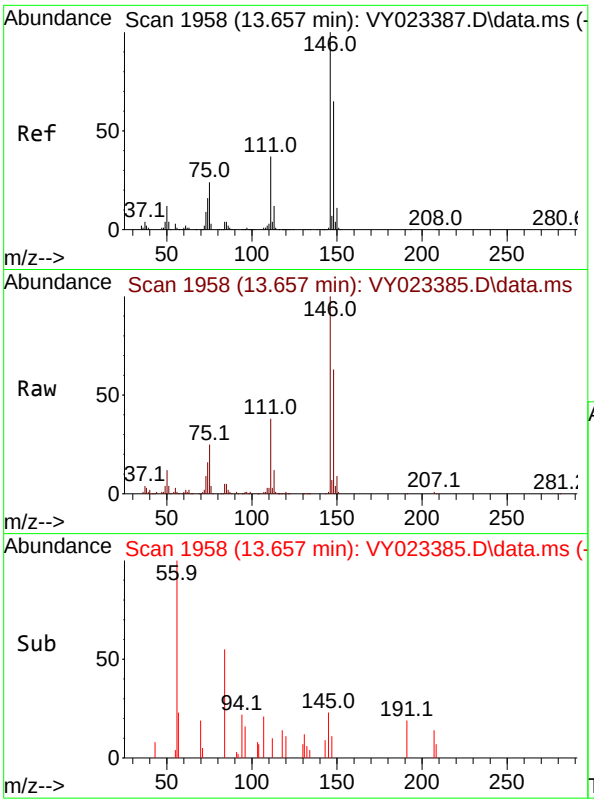



#90
Hexachloroethane
Concen: 9.630 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:117 Resp: 47355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 85.0 | 43.8 | 131.4 |

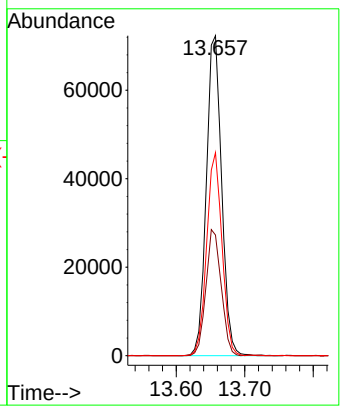





#91
1,2-Dichlorobenzene
Concen: 10.165 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:146 Resp: 11232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.4 | 19.0 | 57.0 |
| 148 | 63.4 | 32.1 | 96.3 |

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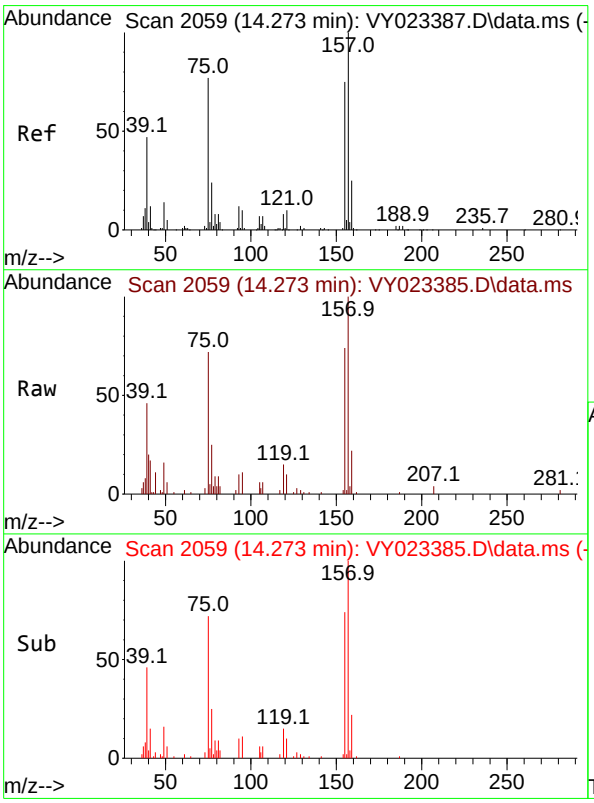
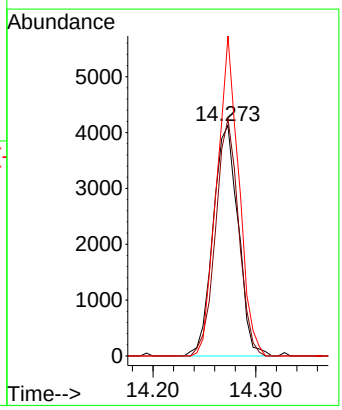
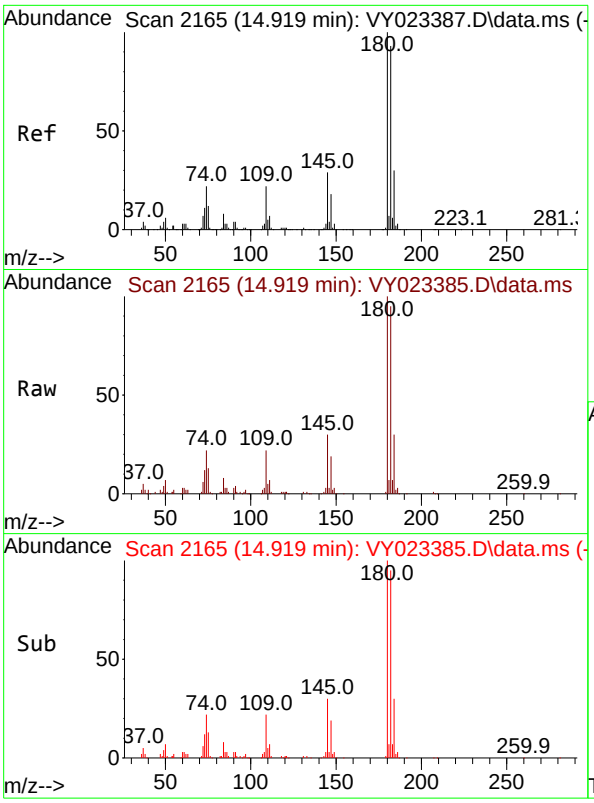



#92
1,2-Dibromo-3-Chloropropane
Concen: 10.608 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 75 Resp: 7005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 94.2 | 50.0 | 150.0 |
| 157 | 121.7 | 63.8 | 191.5 |

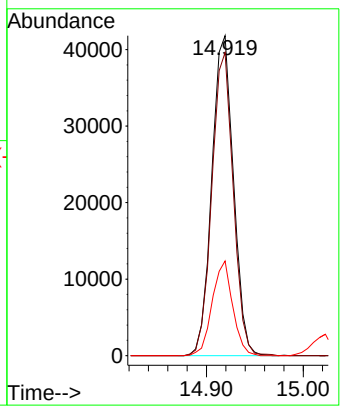





#93
1,2,4-Trichlorobenzene
Concen: 9.992 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:180 Resp: 6505

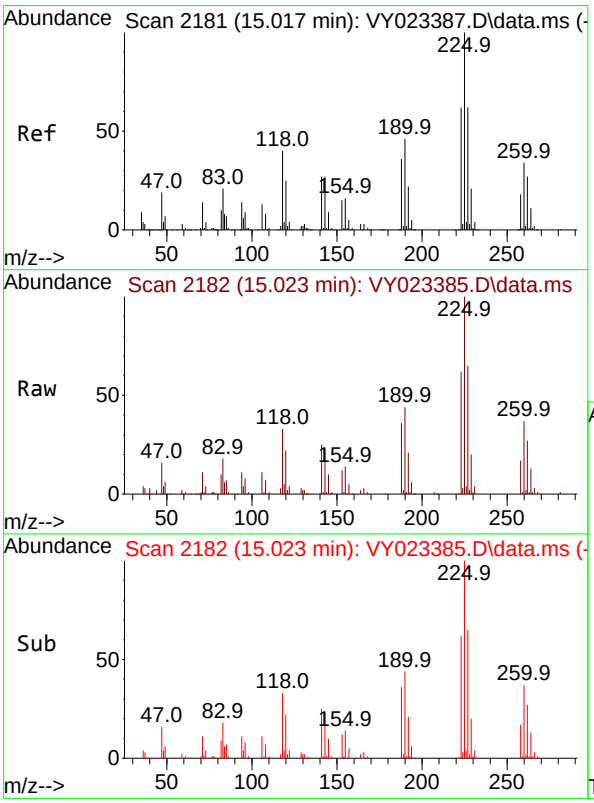
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.5 | 47.9 | 143.6 |
| 145 | 27.9 | 14.7 | 44.1 |




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

**Manual Integrations**
**APPROVED**

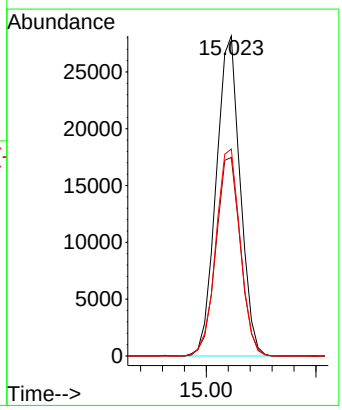
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

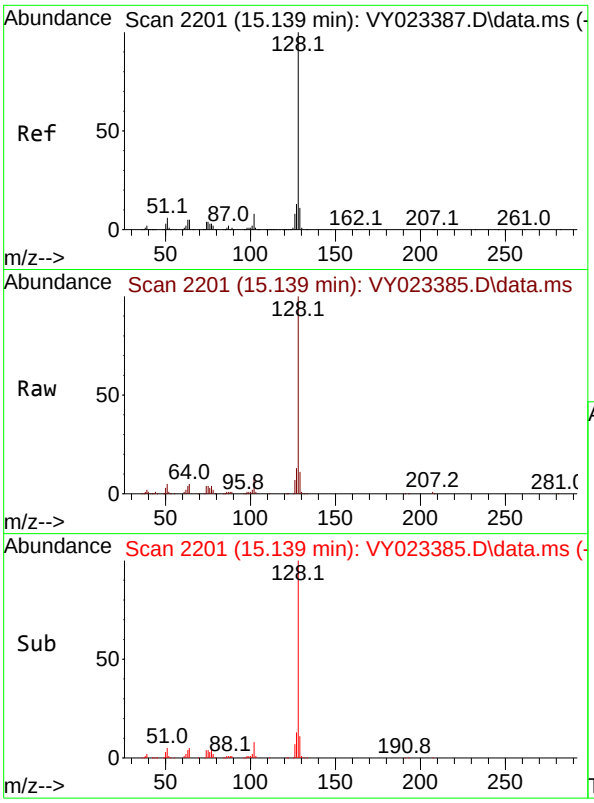



#94
Hexachlorobutadiene
Concen: 10.554 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:225 Resp: 42813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.4 | 30.8 | 92.3 |
| 227 | 66.0 | 31.9 | 95.7 |

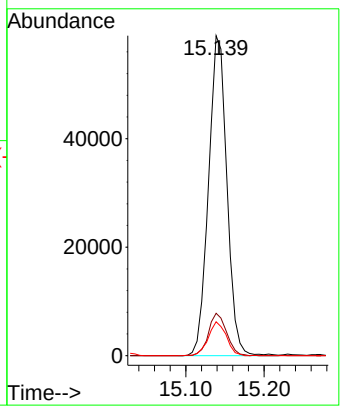





#95
Naphthalene
Concen: 9.264 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:128 Resp: 9609

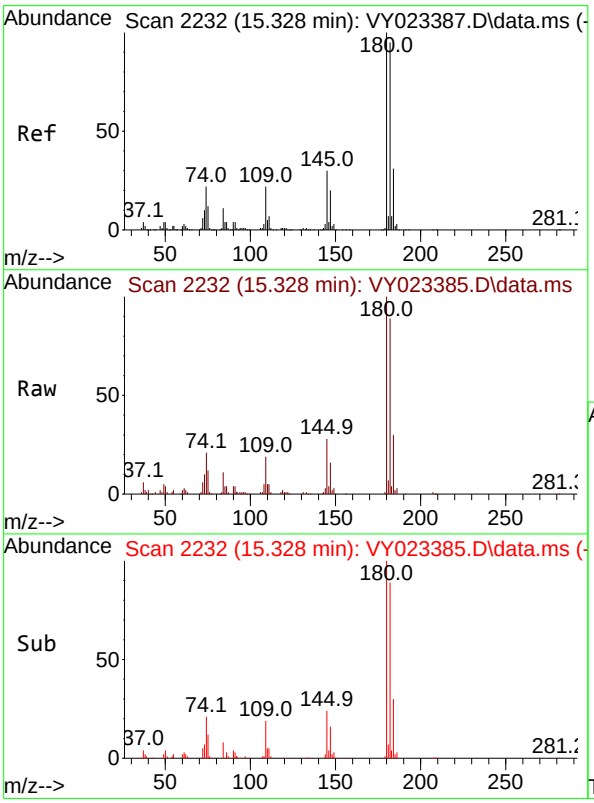
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.4 | 15.6 |
| 129 | 10.4 | 8.9 | 13.3 |




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

**Manual Integrations**
**APPROVED**

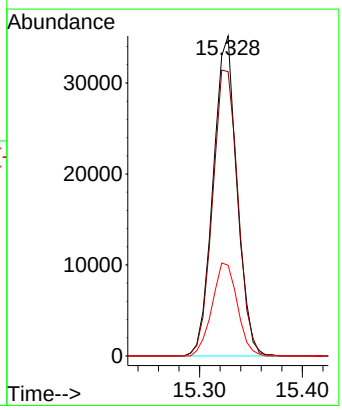
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025




#96
1,2,3-Trichlorobenzene
Concen: 10.004 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:180 Resp: 56499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 47.9 | 143.8 |
| 145 | 30.8 | 15.3 | 45.9 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023386.D
Acq On : 07 Oct 2025 11:24
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:41:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 574363 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 851961 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 746872 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 382604 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 98481 | 19.798 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 39.600%# | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 108034 | 20.895 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 41.800%# | | |
| 50) Toluene-d8 | 10.103 | 98 | 401067 | 20.568 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 41.140%# | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 127216 | 20.680 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 41.360% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 91924 | 20.318 | ug/l | 98 |
| 3) Chloromethane | 2.074 | 50 | 117585 | 18.284 | ug/l | 100 |
| 4) Vinyl Chloride | 2.202 | 62 | 151460 | 18.652 | ug/l | 99 |
| 5) Bromomethane | 2.586 | 94 | 125948 | 18.907 | ug/l | 97 |
| 6) Chloroethane | 2.732 | 64 | 103973 | 18.859 | ug/l | 94 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 217452 | 20.846 | ug/l | 99 |
| 8) Diethyl Ether | 3.452 | 74 | 54124 | 19.837 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.811 | 101 | 109936 | 19.718 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 119083 | 18.482 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.854 | 59 | 34346 | 117.345 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 104778 | 19.531 | ug/l | 98 |
| 13) Acrolein | 3.653 | 56 | 48115 | 97.023 | ug/l | 98 |
| 14) Allyl chloride | 4.384 | 41 | 125424 | 18.674 | ug/l | 98 |
| 15) Acrylonitrile | 5.055 | 53 | 99018 | 92.641 | ug/l | 100 |
| 16) Acetone | 3.866 | 43 | 108209 | 96.742 | ug/l | 96 |
| 17) Carbon Disulfide | 4.104 | 76 | 303284 | 18.121 | ug/l | 99 |
| 18) Methyl Acetate | 4.384 | 43 | 59704 | 21.002 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 247030 | 19.667 | ug/l | 97 |
| 20) Methylene Chloride | 4.616 | 84 | 132229 | 21.801 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 116410 | 19.512 | ug/l | 95 |
| 22) Diisopropyl ether | 6.018 | 45 | 288429 | 19.366 | ug/l | 98 |
| 23) Vinyl Acetate | 5.957 | 43 | 748048 | 91.373 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 190012 | 19.354 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 132159 | 95.593 | ug/l | 93 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 167903 | 19.247 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 133634 | 19.747 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 73407 | 19.273 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.262 | 42 | 76502 | 93.229 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 207096 | 19.562 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 160159 | 18.472 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 188861 | 19.873 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 140912 | 19.317 | ug/l | 100 |
| 37) Ethyl Acetate | 6.982 | 43 | 55705 | 19.315 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 171925 | 20.289 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 182831 | 19.576 | ug/l | 99 |
| 40) Benzene | 8.079 | 78 | 450471 | 19.809 | ug/l | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023386.D
Acq On : 07 Oct 2025 11:24
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:41:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.225 | 41 | 31129m | 20.783 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 116941 | 20.206 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 106595 | 19.002 | ug/l | # | 87 |
| 44) Trichloroethene | 8.865 | 130 | 131459 | 20.598 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 99363 | 19.417 | ug/l | | 98 |
| 46) Dibromomethane | 9.231 | 93 | 62277 | 19.896 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.420 | 83 | 156426 | 19.854 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 50661 | 19.352 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 13636 | 420.712 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 274059 | 95.378 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 291453 | 20.191 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 132848 | 19.632 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 158580 | 19.606 | ug/l | | 95 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 82183 | 19.740 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.438 | 69 | 89244 | 18.613 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 130650 | 19.389 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 190850m | 90.982 | ug/l | | |
| 59) 2-Hexanone | 10.761 | 43 | 187387 | 94.190 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 115907 | 20.412 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 78579 | 20.062 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 167648 | 22.438 | ug/l | | 97 |
| 65) Chlorobenzene | 11.438 | 112 | 326360 | 20.109 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 116412 | 20.396 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 523606 | 19.768 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 426913 | 40.211 | ug/l | | 100 |
| 69) o-Xylene | 11.956 | 106 | 195021 | 19.843 | ug/l | | 96 |
| 70) Styrene | 11.968 | 104 | 327934 | 20.208 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 71119 | 20.814 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 513183 | 20.136 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 85063 | 17.860 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 76821 | 18.069 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 74100m | 19.634 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 135402 | 20.700 | ug/l | | 98 |
| 78) n-propylbenzene | 12.596 | 91 | 597829 | 19.945 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 349203 | 20.179 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 418684 | 20.208 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 26922 | 19.234 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 361458 | 20.000 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 377277 | 19.983 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 413292 | 20.162 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 546582 | 19.990 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 464005 | 20.081 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 262901 | 20.347 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 259217 | 20.230 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 401893 | 19.697 | ug/l | | 98 |
| 90) Hexachloroethane | 13.877 | 117 | 98983 | 19.730 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 231199 | 20.507 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 12668 | 18.802 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 137963 | 20.770 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 87575 | 21.159 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 206017 | 19.467 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 121656 | 21.113 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023386.D
Acq On : 07 Oct 2025 11:24
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:41:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 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

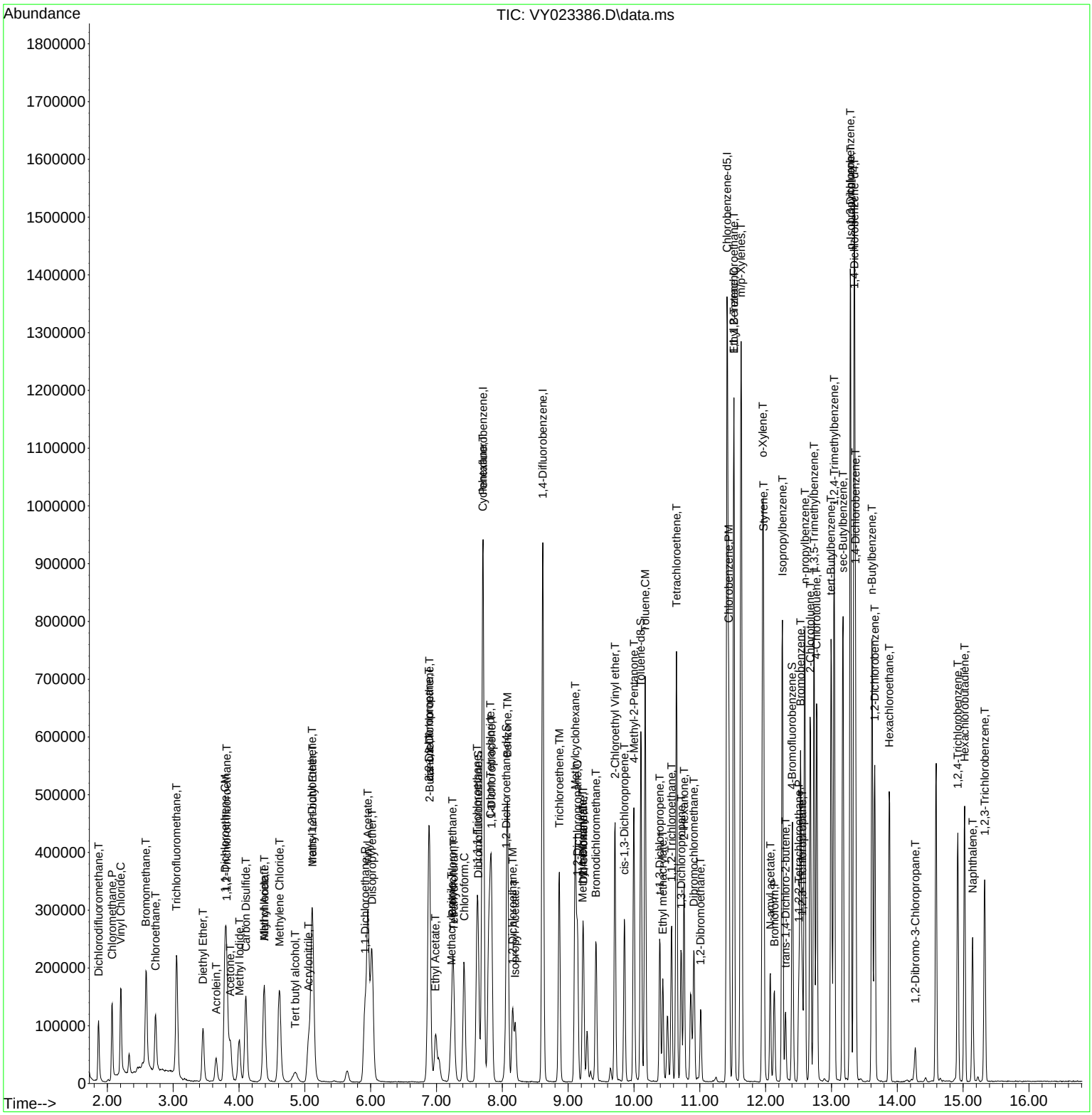
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023386.D
Acq On : 07 Oct 2025 11:24
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

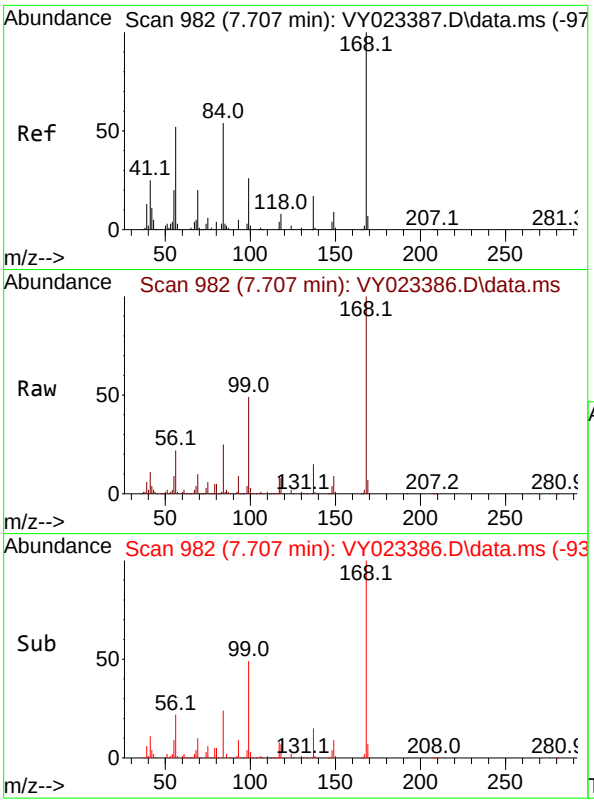
Quant Time: Oct 08 04:41:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

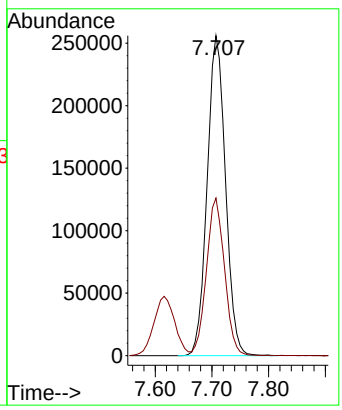





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:168 Resp: 57436

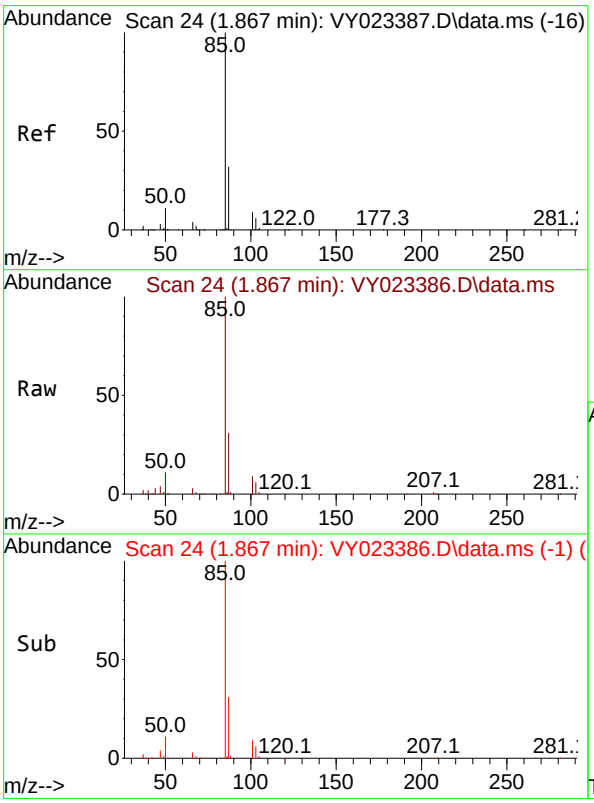
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 49.2 | 39.7 | 59.5 |




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

**Manual Integrations**
**APPROVED**

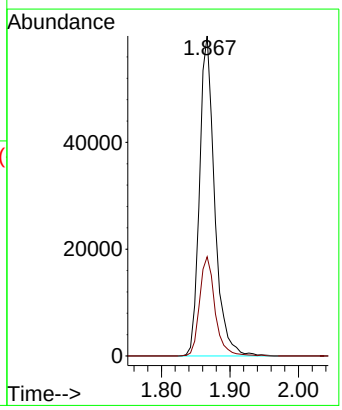
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

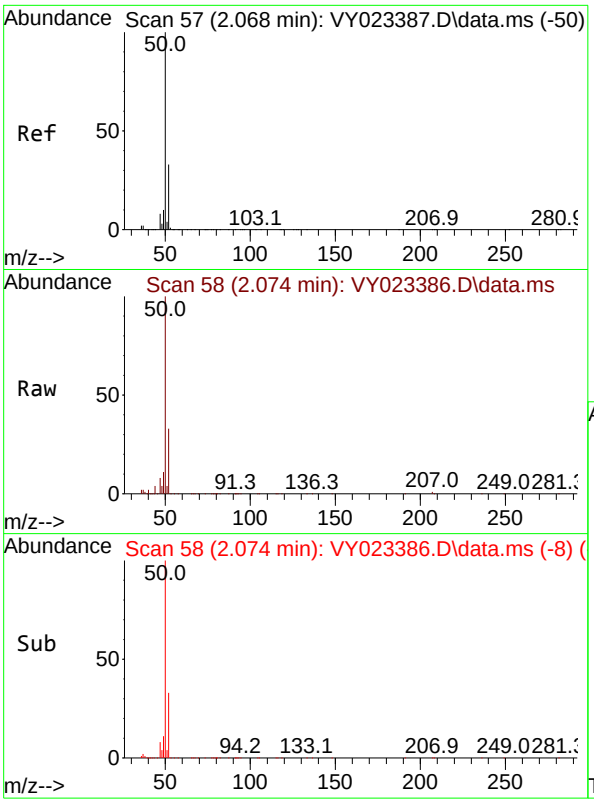



#2
Dichlorodifluoromethane
Concen: 20.318 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 85 Resp: 91924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.0 | 16.0 | 47.9 |

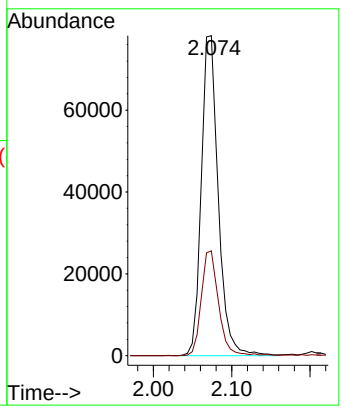





#3
Chloromethane
Concen: 18.284 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 50 Resp: 11758

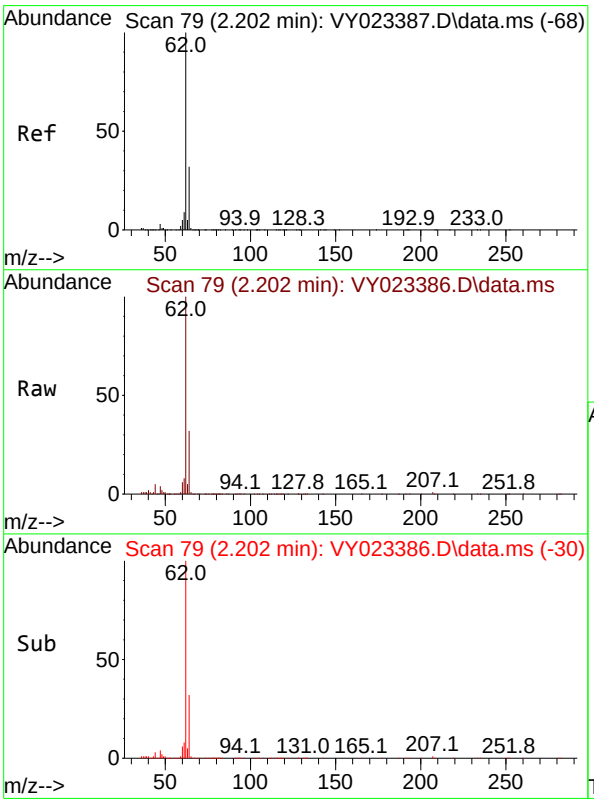
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.7 | 26.2 | 39.2 |




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

**Manual Integrations**
**APPROVED**

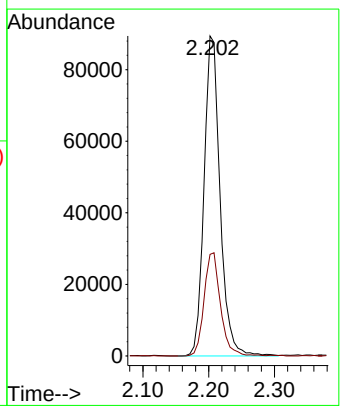
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

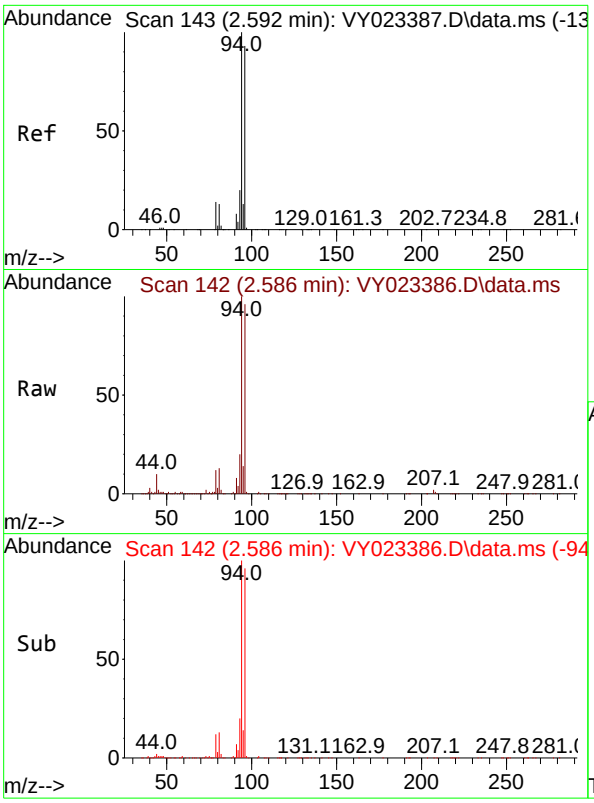



#4
Vinyl Chloride
Concen: 18.652 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 62 Resp: 151460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.7 | 25.8 | 38.8 |

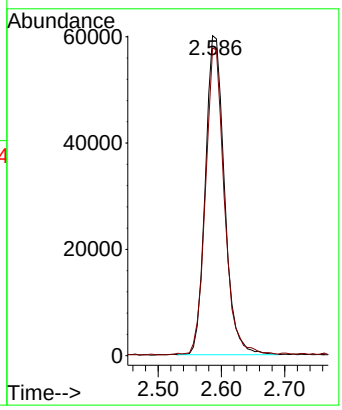





#5
Bromomethane
Concen: 18.907 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 94 Resp: 12594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.9 | 74.5 | 111.7 |




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

**Manual Integrations**
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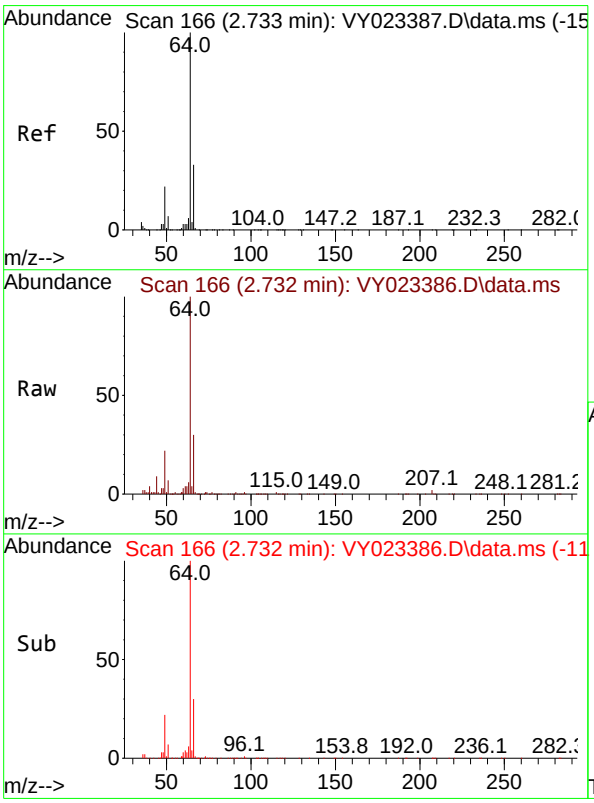
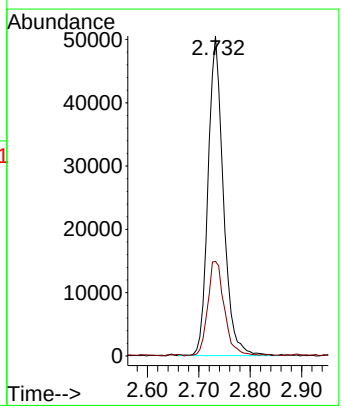
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

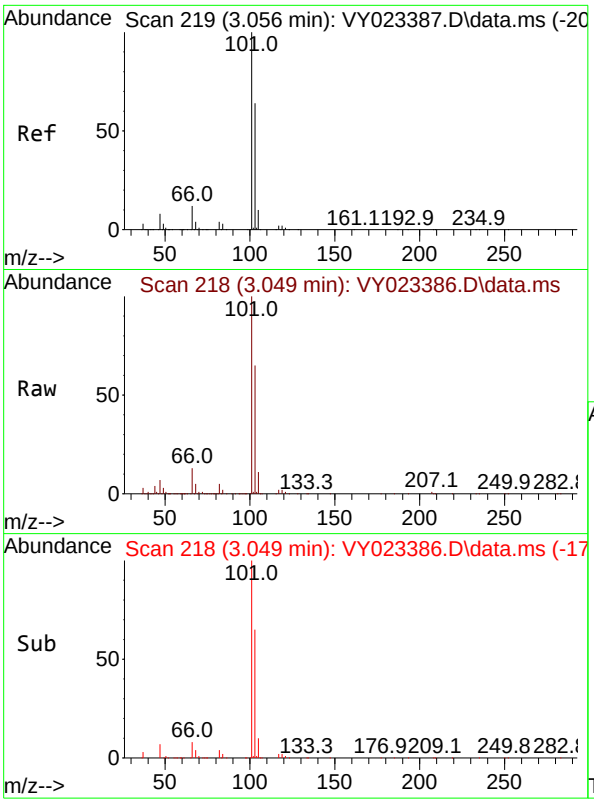



#6
Chloroethane
Concen: 18.859 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 64 Resp: 103973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 29.3 | 26.2 | 39.4 |






#7
Trichlorofluoromethane
Concen: 20.846 ug/l
RT: 3.049 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:101 Resp: 21745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.2 | 51.3 | 76.9 |

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

**Manual Integrations**
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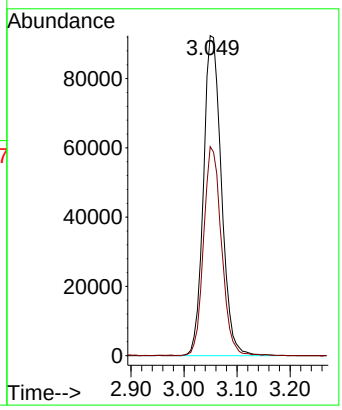
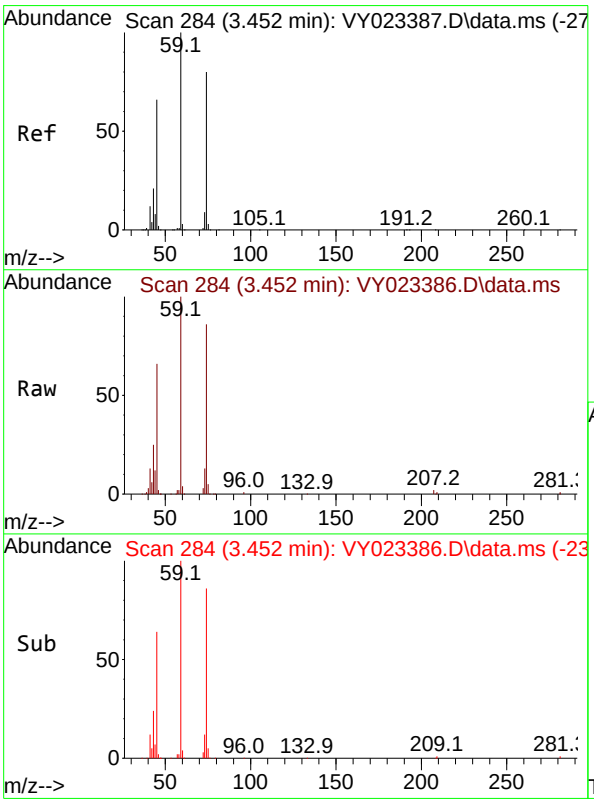
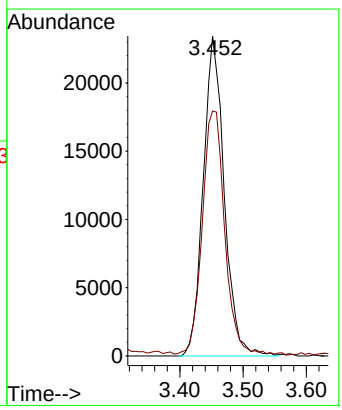


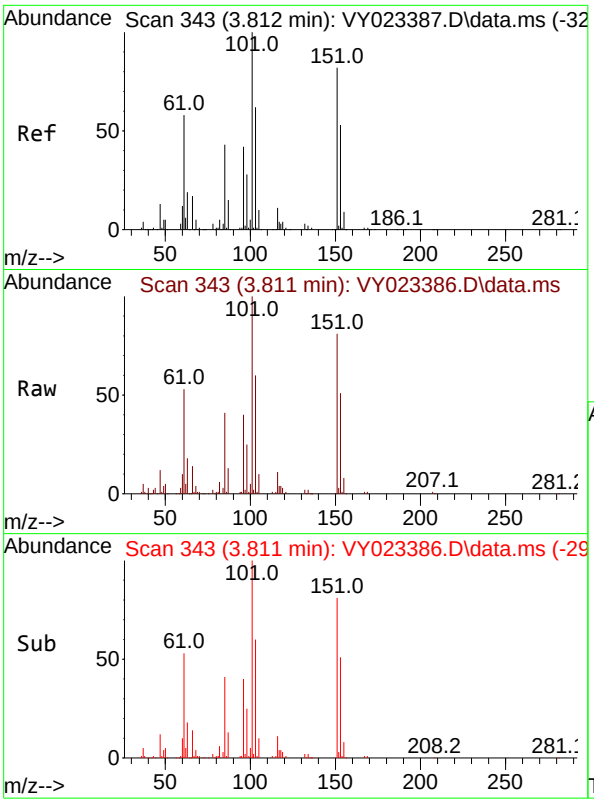




#8
Diethyl Ether
Concen: 19.837 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 74 Resp: 54124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 80.6 | 39.9 | 119.7 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.718 ug/l
RT: 3.811 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:101 Resp: 10993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.1 | 34.6 | 51.8 |
| 151 | 82.2 | 67.0 | 100.6 |

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

**Manual Integrations**
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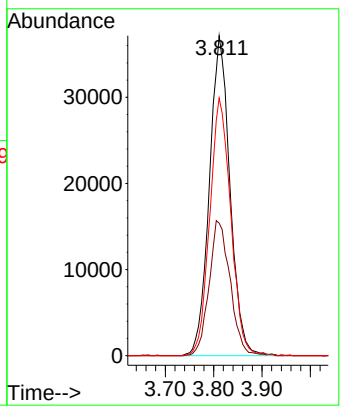
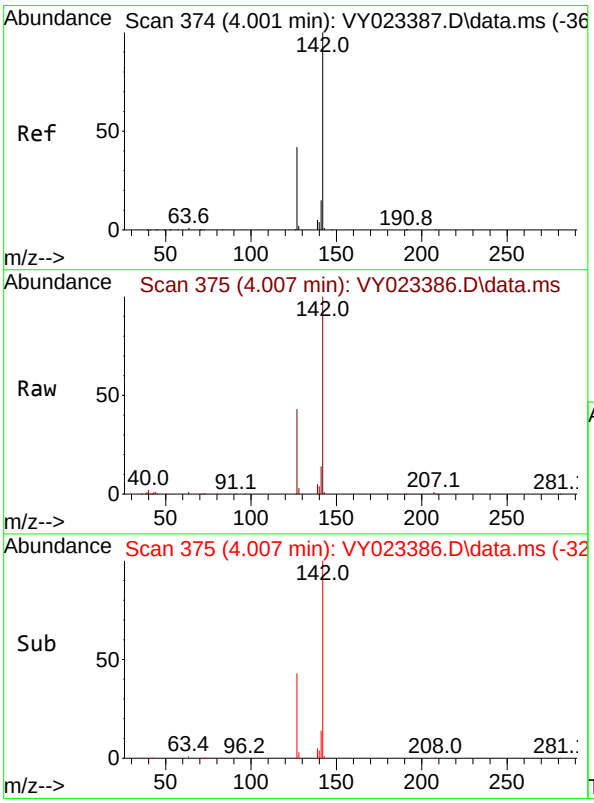
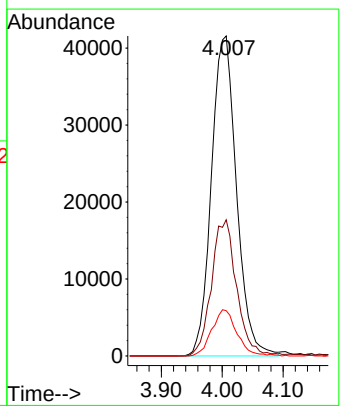


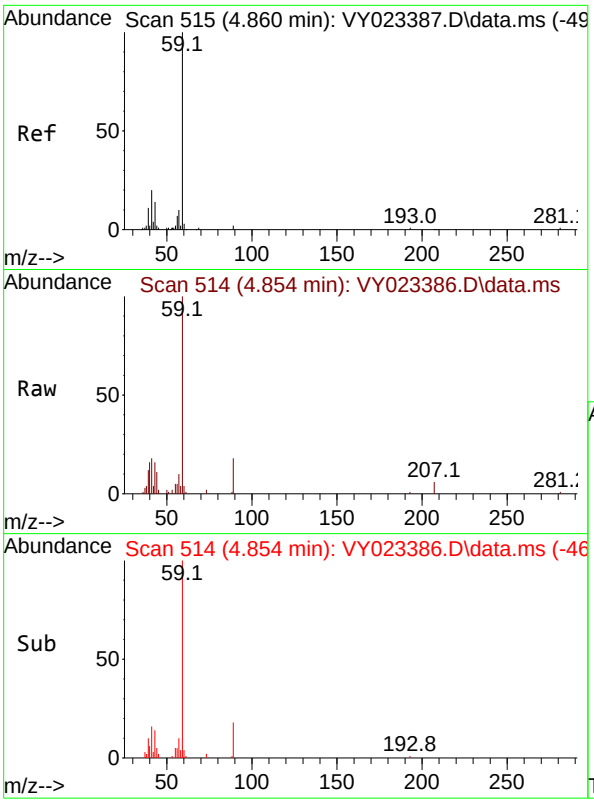




#10
Methyl Iodide
Concen: 18.482 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:142 Resp: 119083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 42.9 | 34.8 | 52.2 |
| 141 | 14.5 | 11.6 | 17.4 |

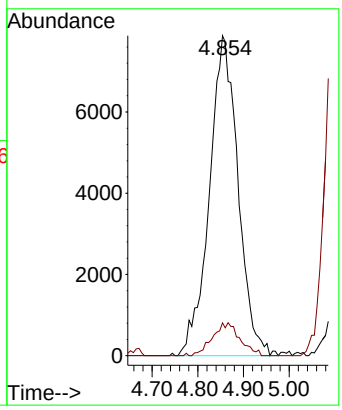





#11
Tert butyl alcohol
Concen: 117.345 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 59 Resp: 3434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.8 | 8.3 | 12.5 |




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

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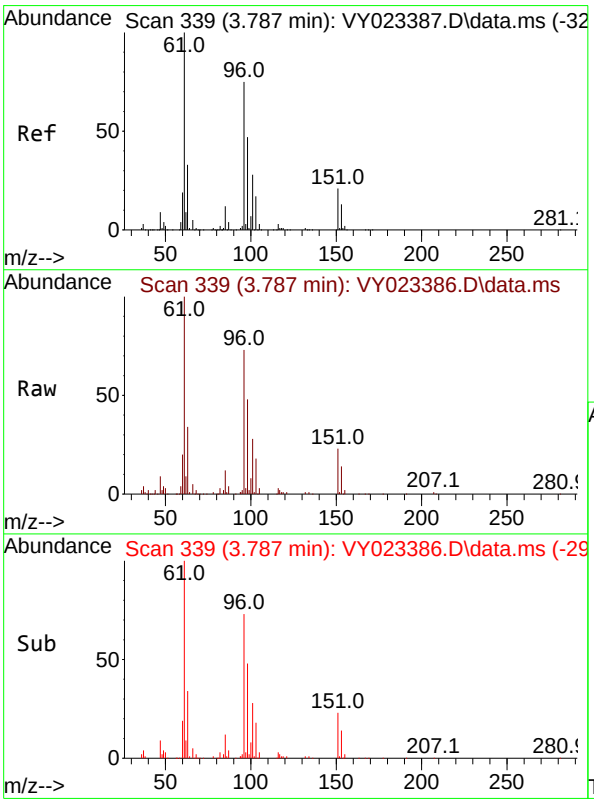
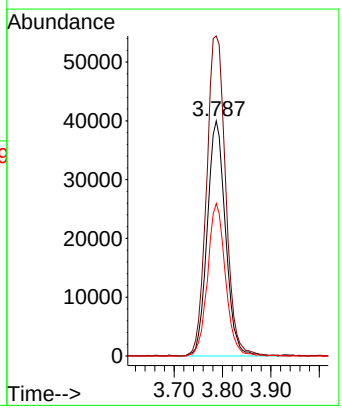
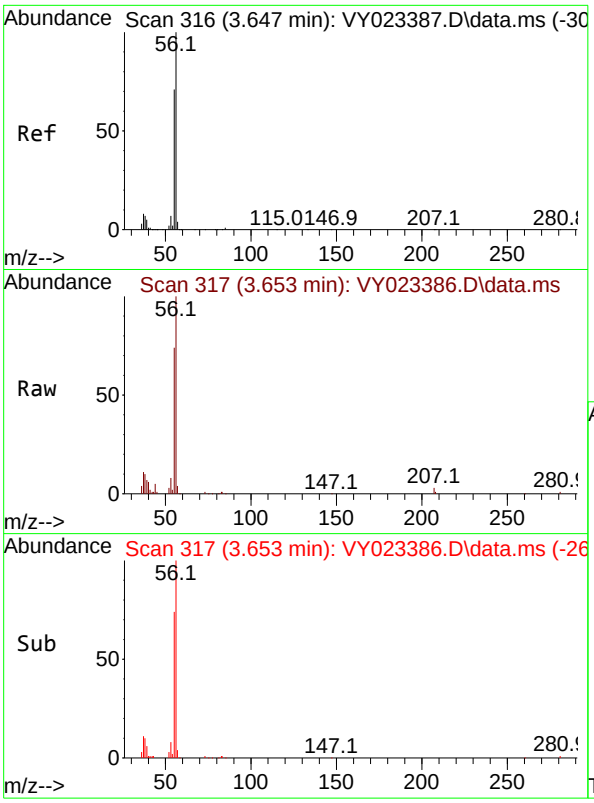



#12
1,1-Dichloroethene
Concen: 19.531 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 96 Resp: 104778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.2 | 106.7 | 160.1 |
| 98 | 64.9 | 50.2 | 75.4 |

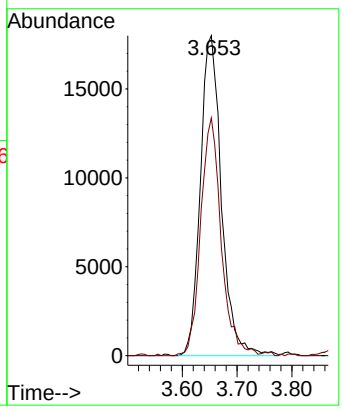





#13
Acrolein
Concen: 97.023 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 56 Resp: 4811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.0 | 56.1 | 84.1 |




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

**Manual Integrations**
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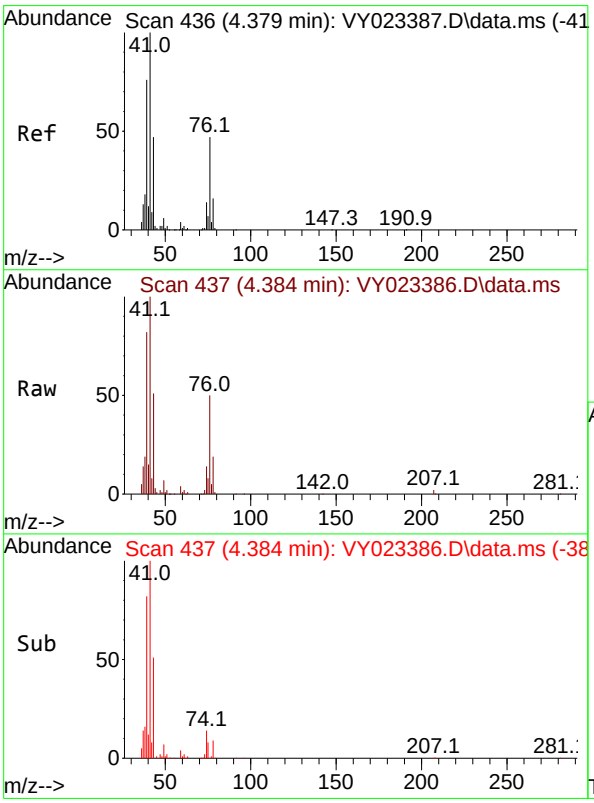
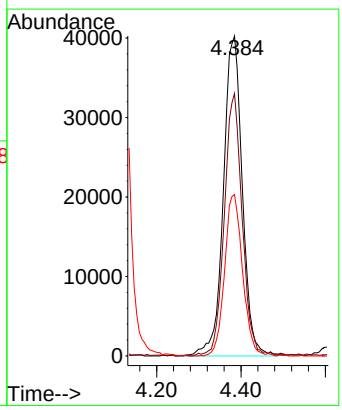
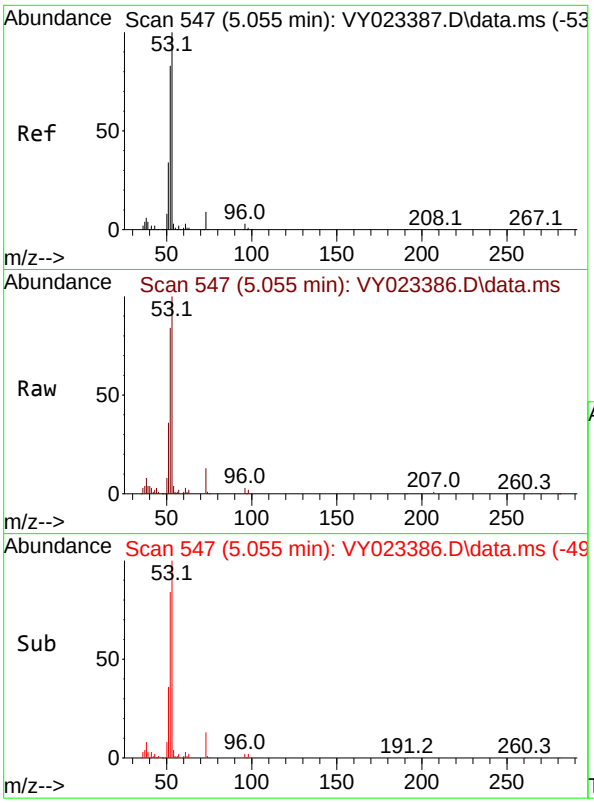



#14
Allyl chloride
Concen: 18.674 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 41 Resp: 125424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 77.6 | 59.9 | 89.9 |
| 76 | 47.9 | 38.0 | 57.0 |

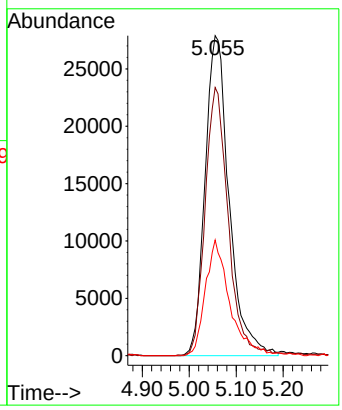





#15
Acrylonitrile
Concen: 92.641 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 53 Resp: 9901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.7 | 64.6 | 97.0 |
| 51 | 36.6 | 29.5 | 44.3 |




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

**Manual Integrations**
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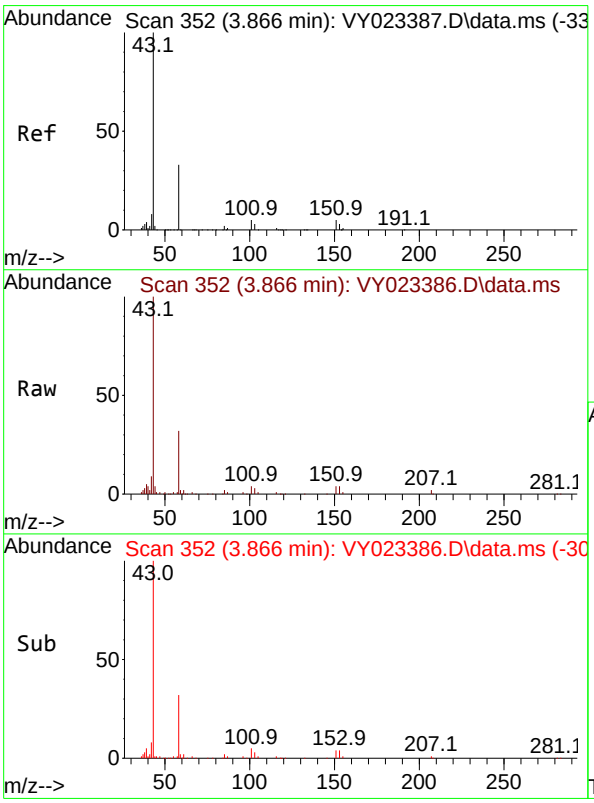
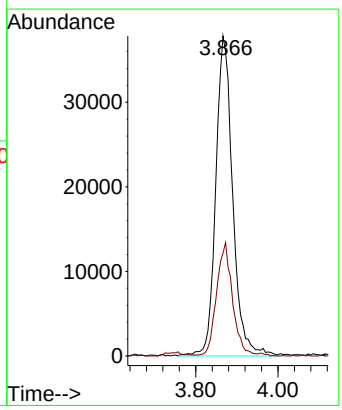
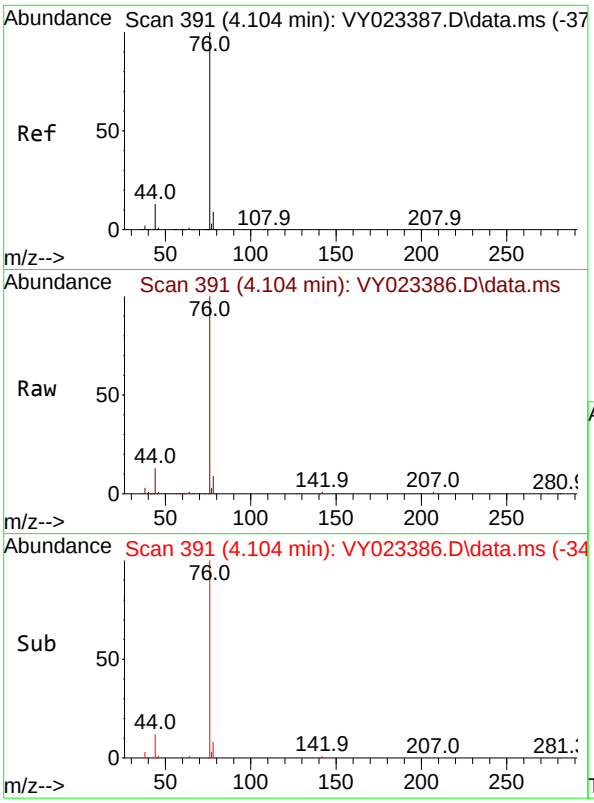



#16
Acetone
Concen: 96.742 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 108209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.1 | 27.7 | 41.5 |

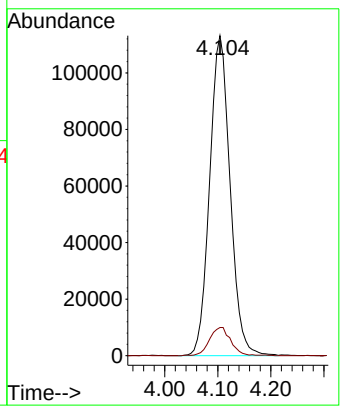





#17
Carbon Disulfide
Concen: 18.121 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 76 Resp: 30328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 7.3 | 10.9 |




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

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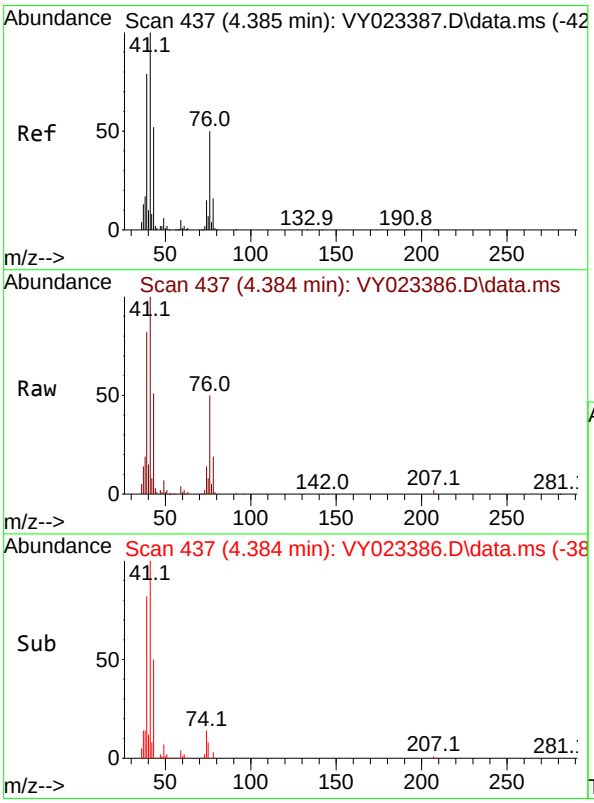
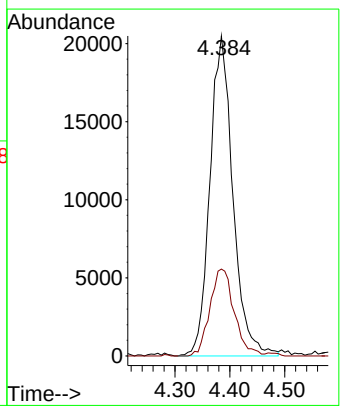
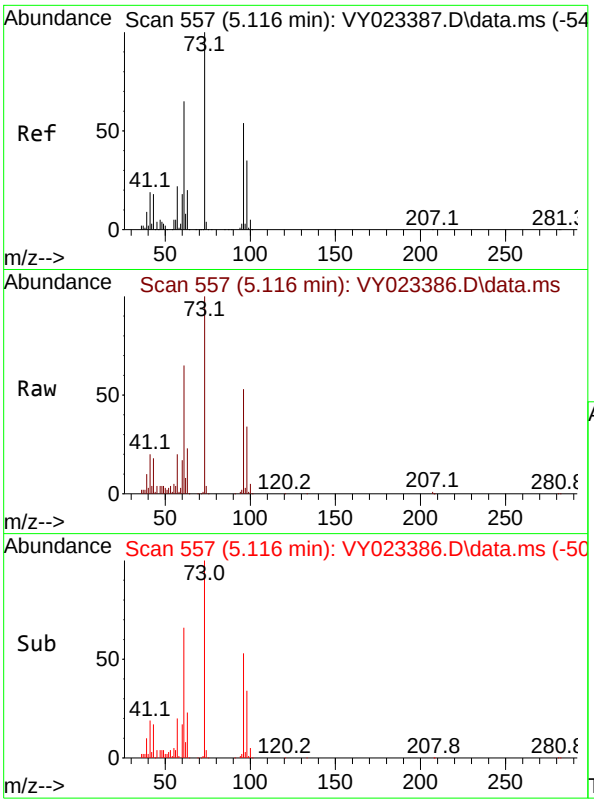



#18
Methyl Acetate
Concen: 21.002 ug/l
RT: 4.384 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 59704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 28.7 | 24.2 | 36.4 |

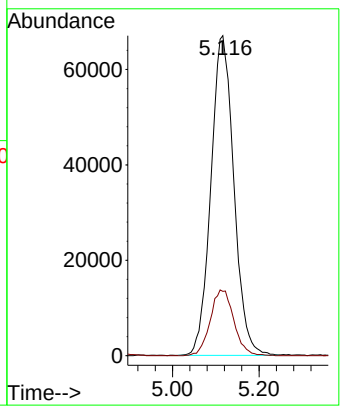





#19
Methyl tert-butyl Ether
Concen: 19.667 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 73 Resp: 24703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.1 | 17.4 | 26.0 |




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

**Manual Integrations**
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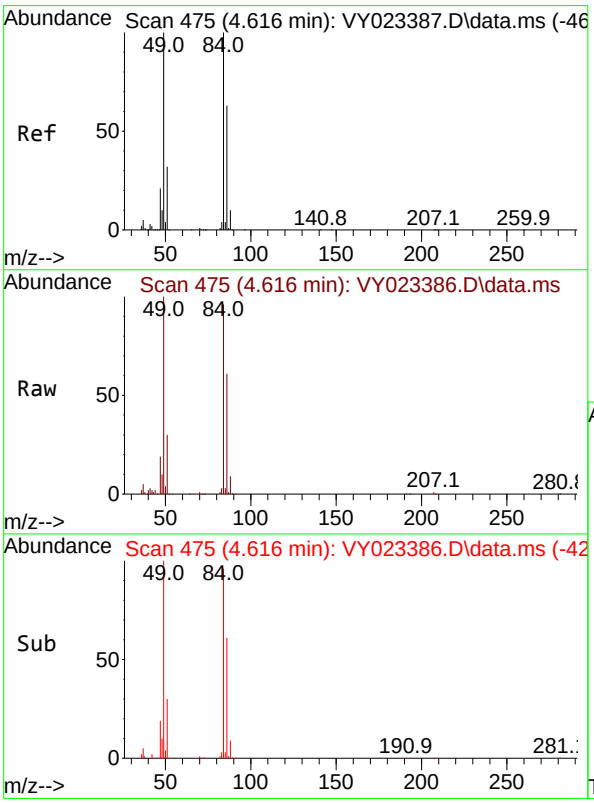
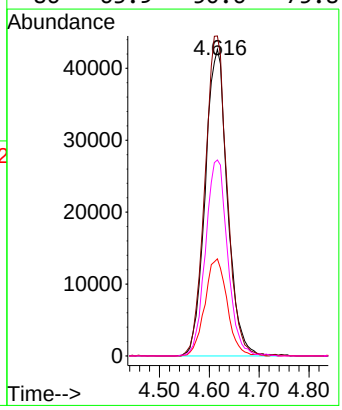
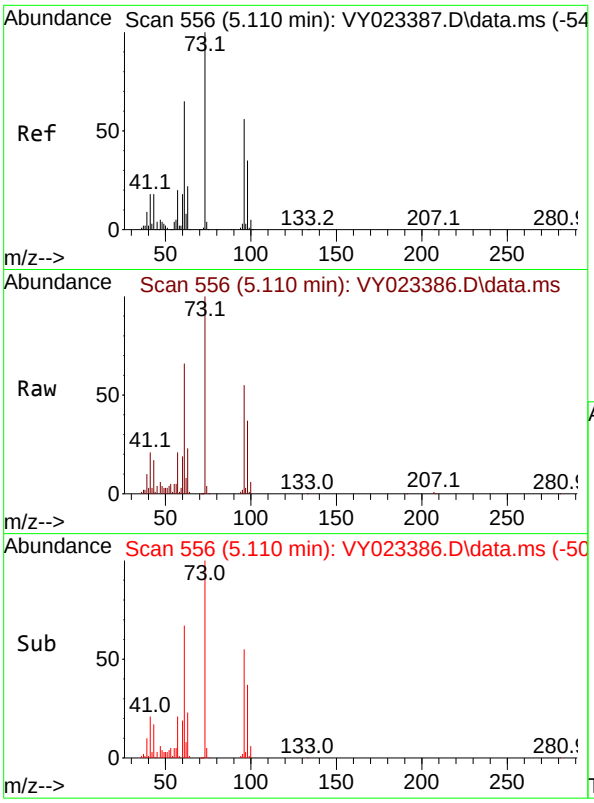



#20
Methylene Chloride
Concen: 21.801 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 84 Resp: 132229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 104.2 | 80.2 | 120.4 |
| 51 | 31.7 | 25.9 | 38.9 |
| 86 | 63.9 | 50.6 | 75.8 |

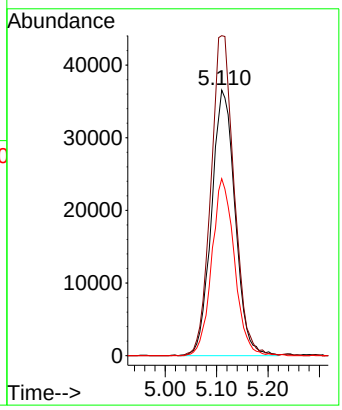





#21
trans-1,2-Dichloroethene
Concen: 19.512 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 96 Resp: 11641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 120.5 | 92.7 | 139.1 |
| 98 | 66.7 | 49.7 | 74.5 |




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

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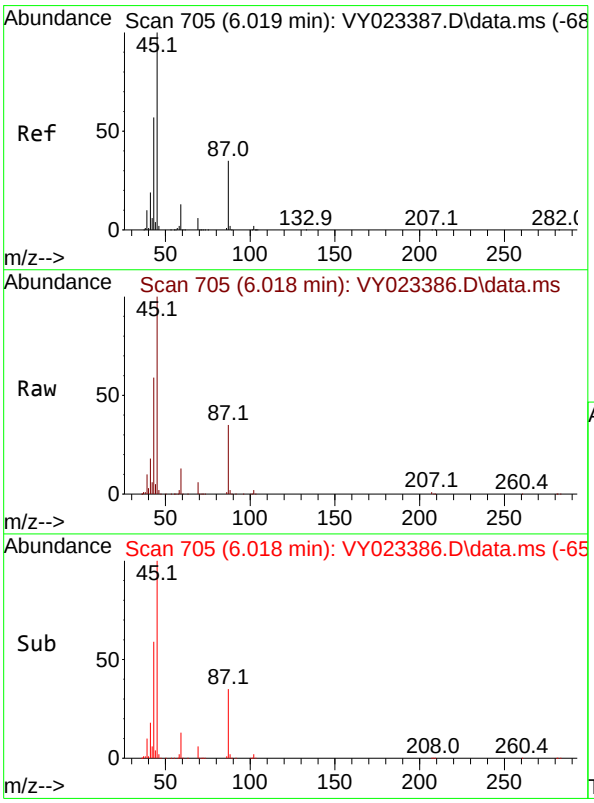
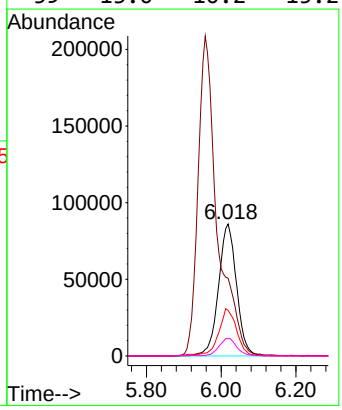
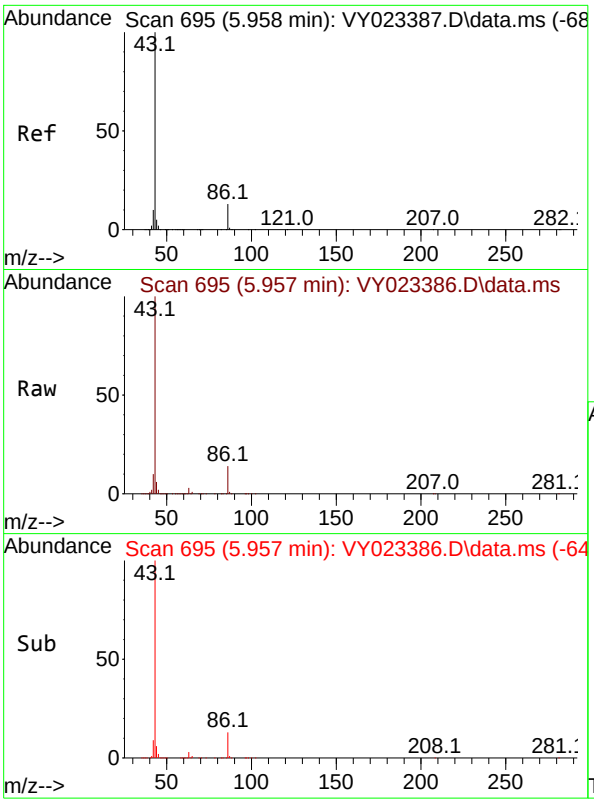



#22
Diisopropyl ether
Concen: 19.366 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 45 Resp: 288429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 58.8 | 45.6 | 68.4 |
| 87 | 34.5 | 28.1 | 42.1 |
| 59 | 13.0 | 10.2 | 15.2 |

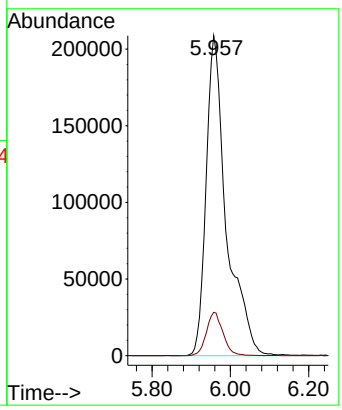





#23
Vinyl Acetate
Concen: 91.373 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 74804

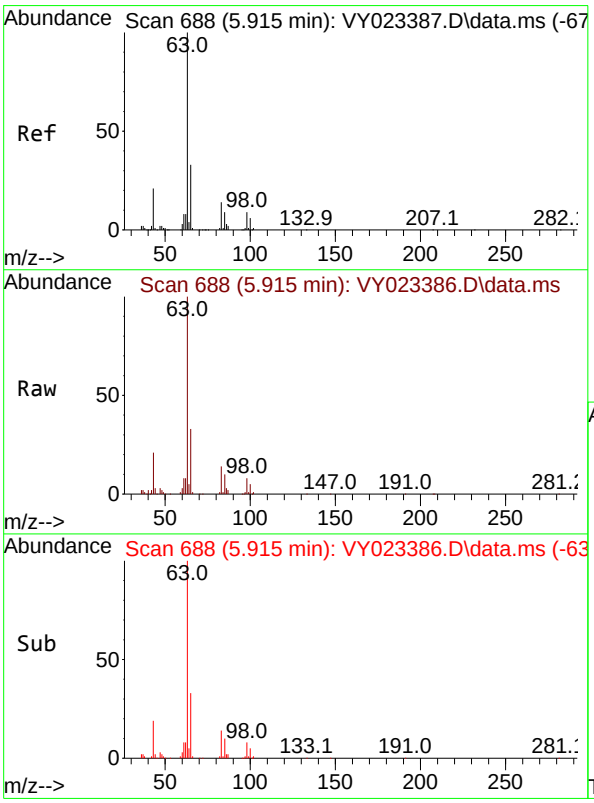
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 13.5 | 10.6 | 15.8 |




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

**Manual Integrations**
**APPROVED**

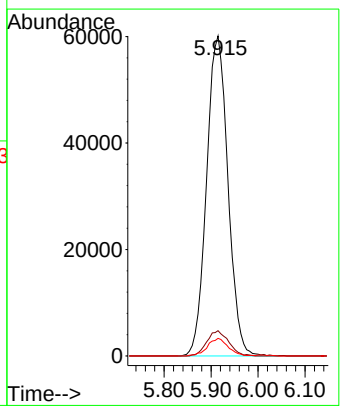
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

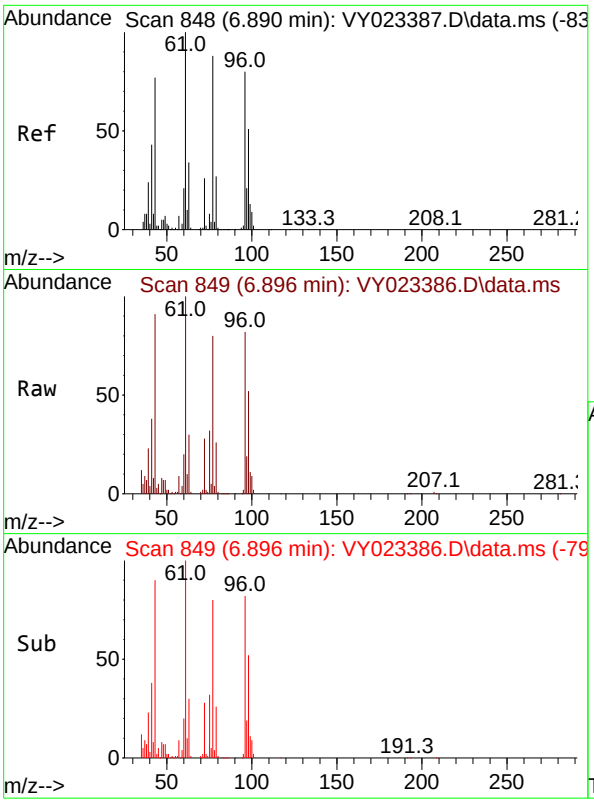



#24
1,1-Dichloroethane
Concen: 19.354 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 63 Resp: 190012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.9 | 4.3 | 13.1 |
| 100 | 5.5 | 2.8 | 8.4 |






#25
2-Butanone
Concen: 95.593 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 13215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.5 | 27.4 | 41.2 |

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

**Manual Integrations**
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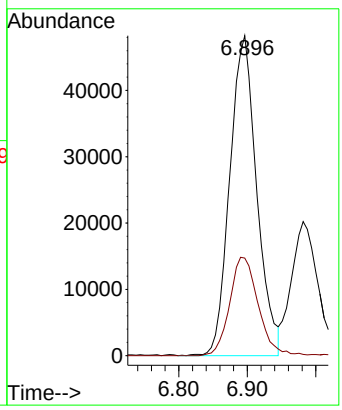
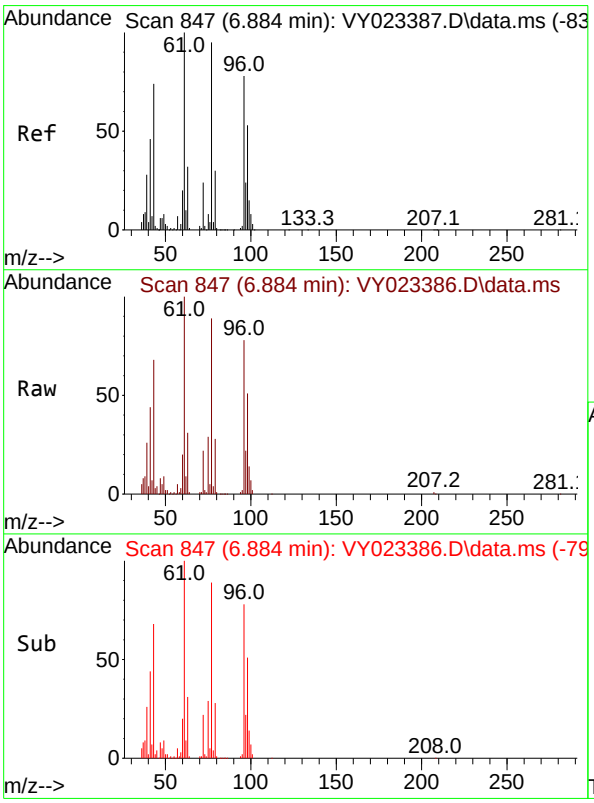
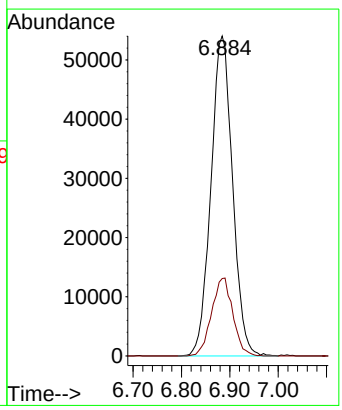


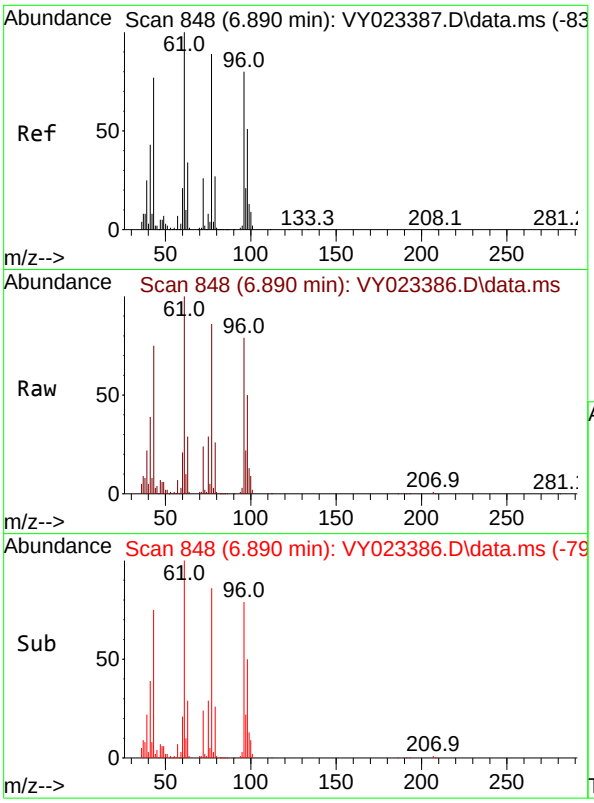




#26
2,2-Dichloropropane
Concen: 19.247 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 77 Resp: 167903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.9 | 12.1 | 36.3 |






#27
cis-1,2-Dichloroethene
Concen: 19.747 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 96 Resp: 13363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 128.1 | 0.0 | 258.2 |
| 98 | 65.3 | 0.0 | 132.0 |

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

**Manual Integrations**
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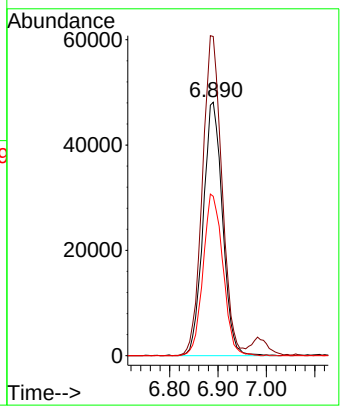
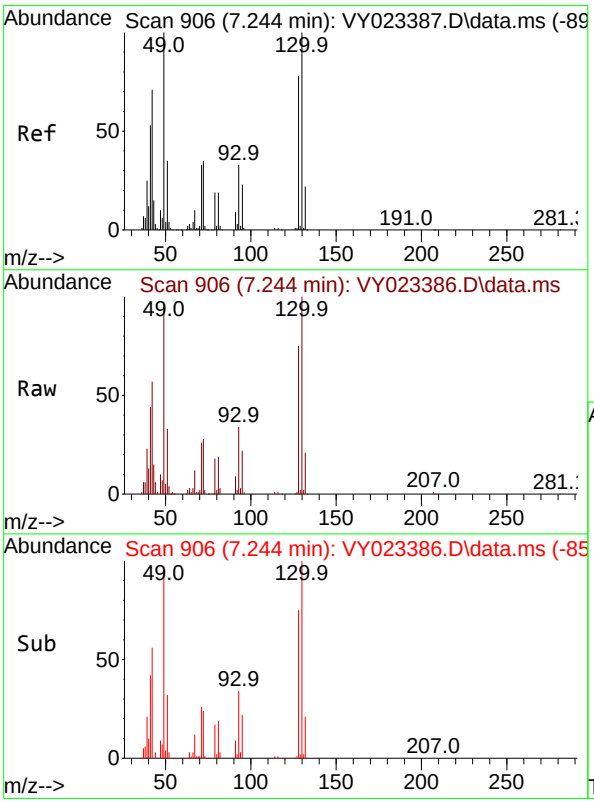
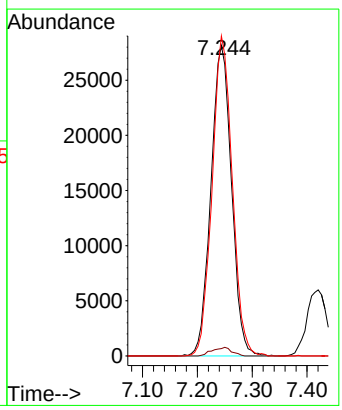


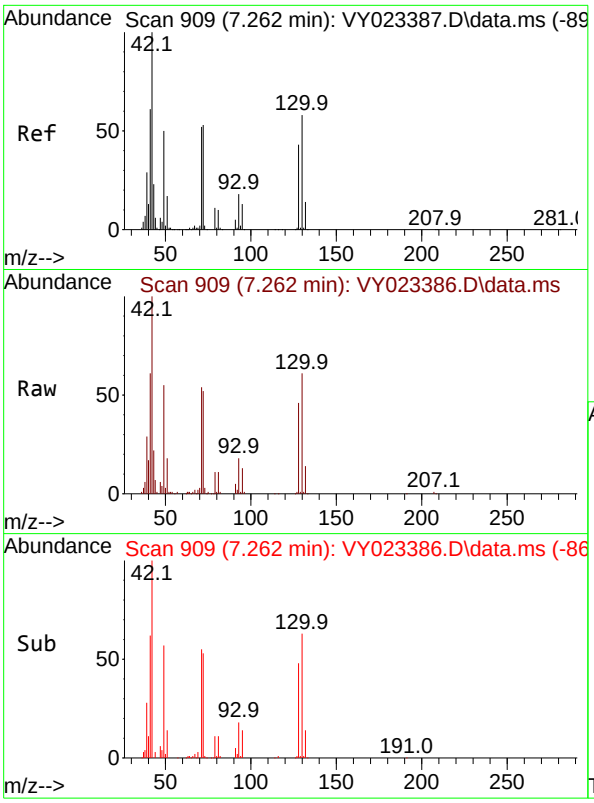




#28
Bromochloromethane
Concen: 19.273 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 49 Resp: 73407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.7 | 0.0 | 5.6 |
| 130 | 100.8 | 81.9 | 122.9 |

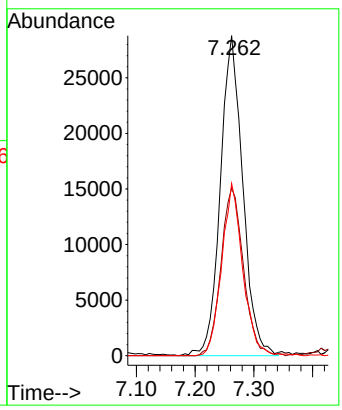





#29
Tetrahydrofuran
Concen: 93.229 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 42 Resp: 7650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 52.7 | 43.0 | 64.6 |
| 71 | 50.6 | 40.1 | 60.1 |




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

**Manual Integrations**
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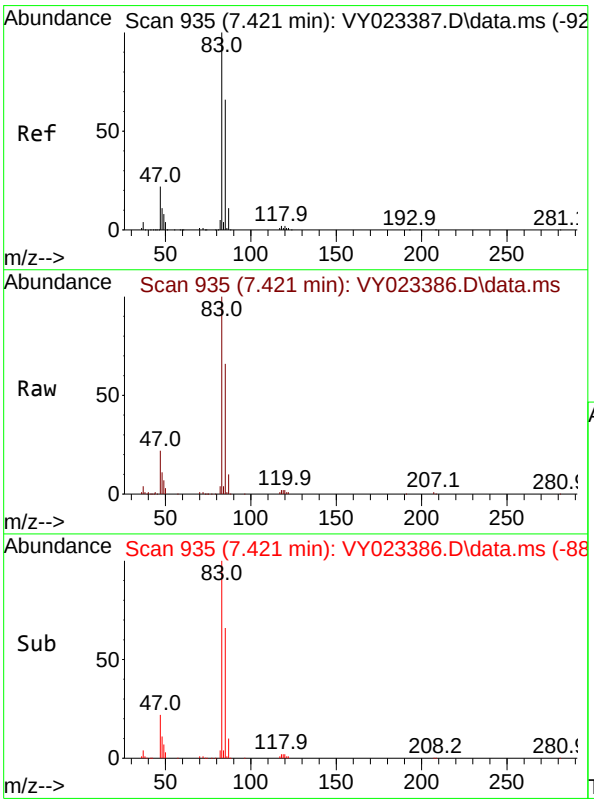
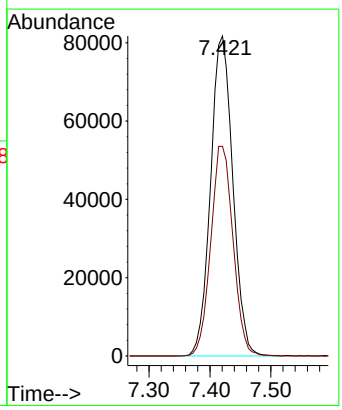
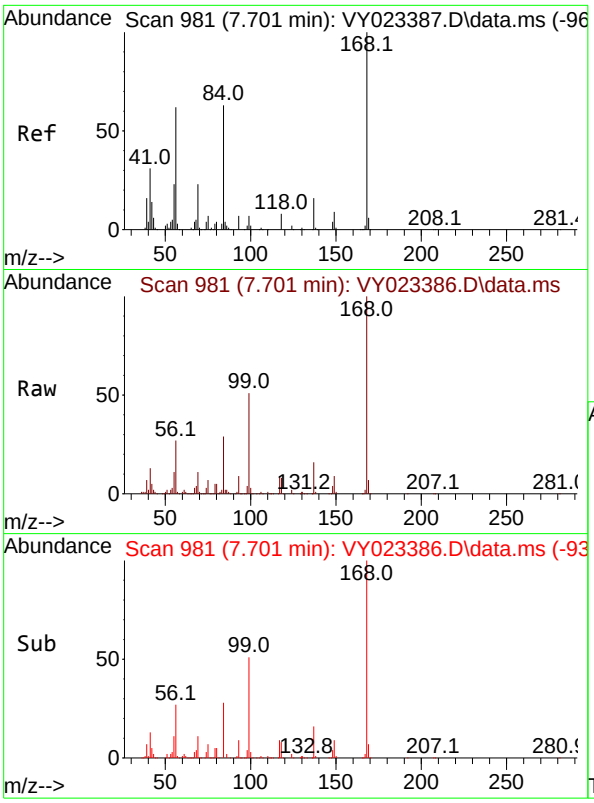



#30
Chloroform
Concen: 19.562 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 83 Resp: 207096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.5 | 52.5 | 78.7 |

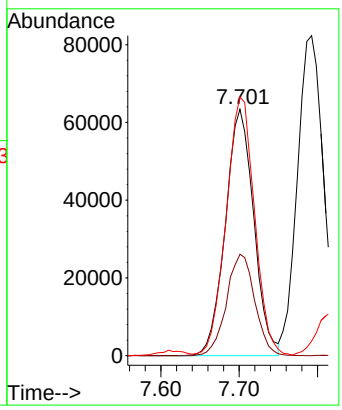





#31
Cyclohexane
Concen: 18.472 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 56 Resp: 16015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 41.2 | 30.0 | 45.0 |
| 84 | 103.3 | 81.2 | 121.8 |




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

**Manual Integrations**
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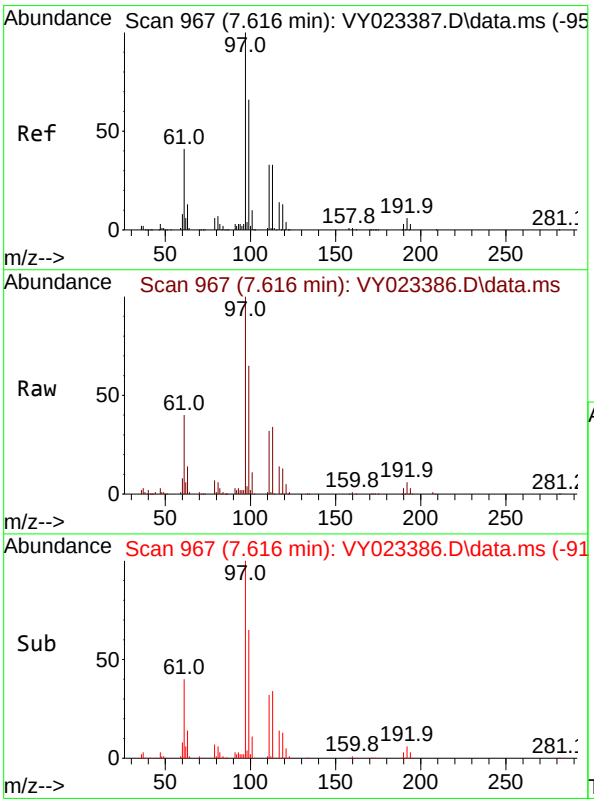
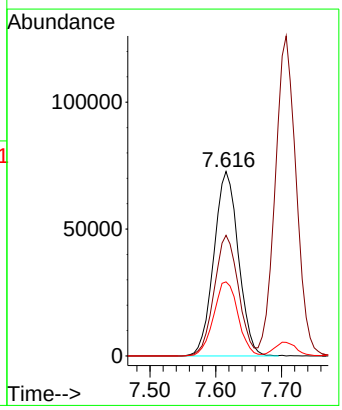
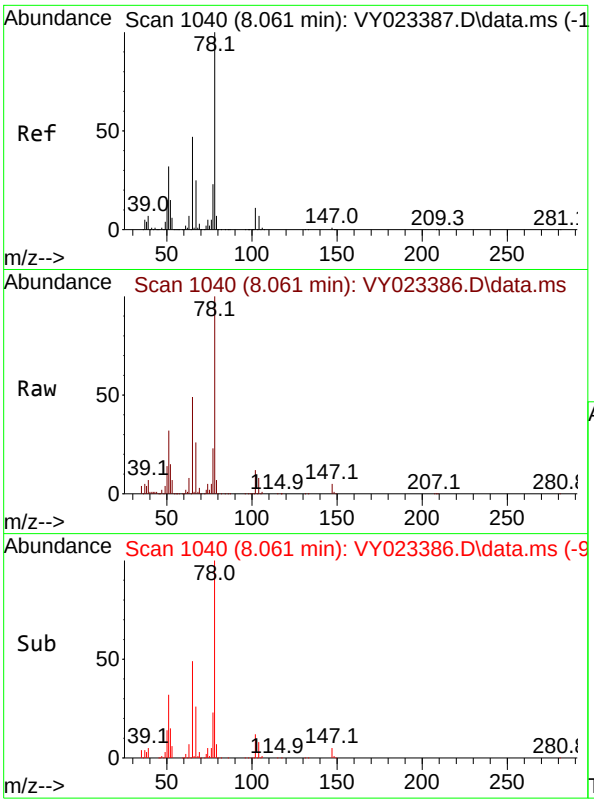



#32
1,1,1-Trichloroethane
Concen: 19.873 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 97 Resp: 188861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.4 | 51.4 | 77.2 |
| 61 | 40.1 | 31.9 | 47.9 |

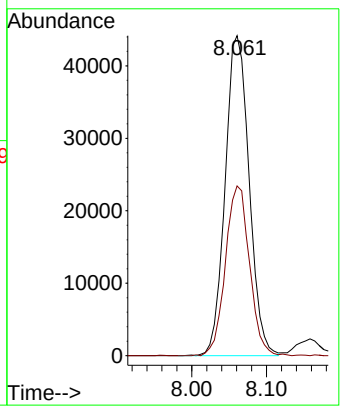





#33
1,2-Dichloroethane-d4
Concen: 19.798 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 65 Resp: 9848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.3 | 0.0 | 105.8 |




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

**Manual Integrations**
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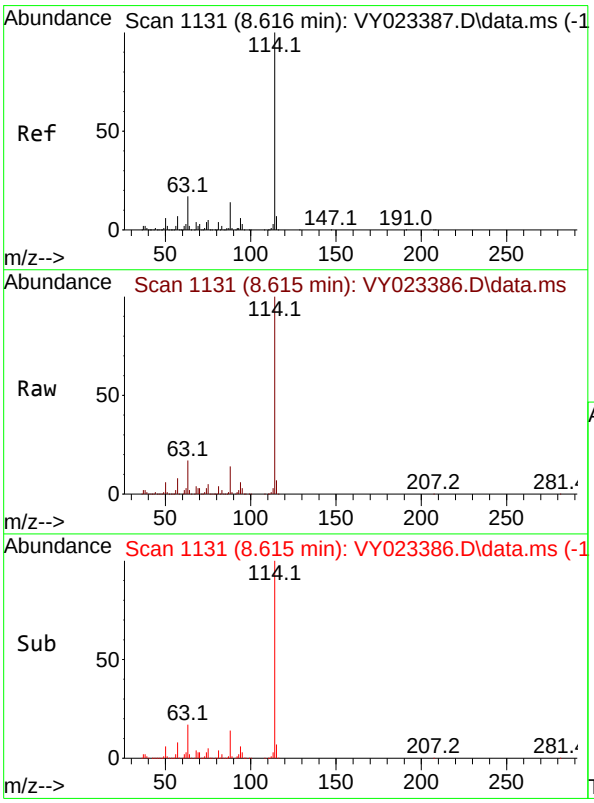
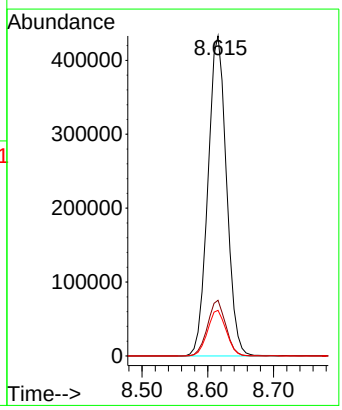
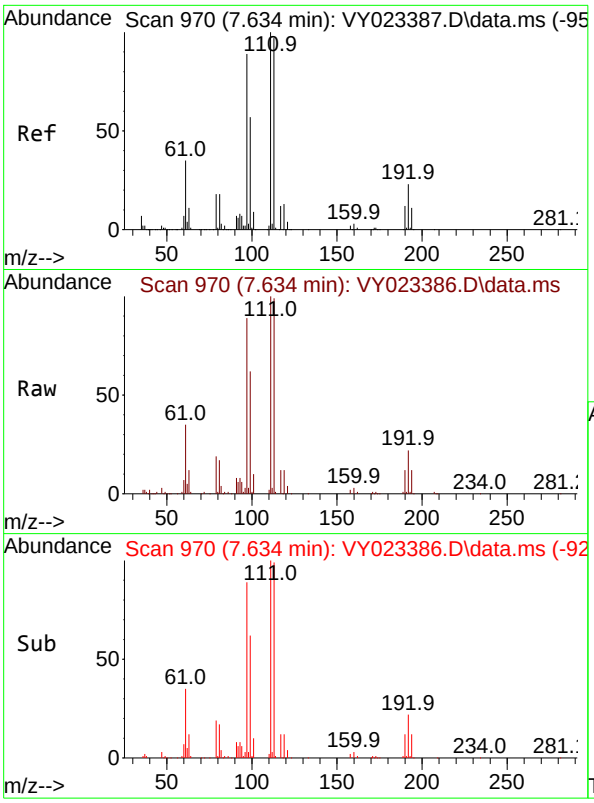



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:114 Resp: 851961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.4 | 0.0 | 34.2 |
| 88 | 14.3 | 0.0 | 28.4 |






#35
Dibromofluoromethane
Concen: 20.895 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:113 Resp: 10803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.9 | 81.8 | 122.6 |
| 192 | 22.3 | 18.0 | 27.0 |

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

**Manual Integrations**
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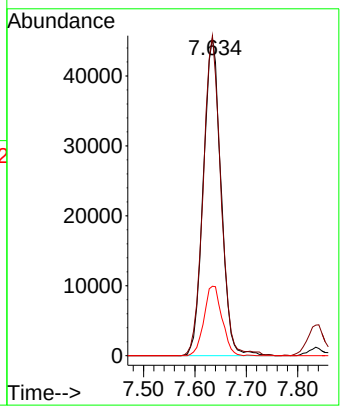
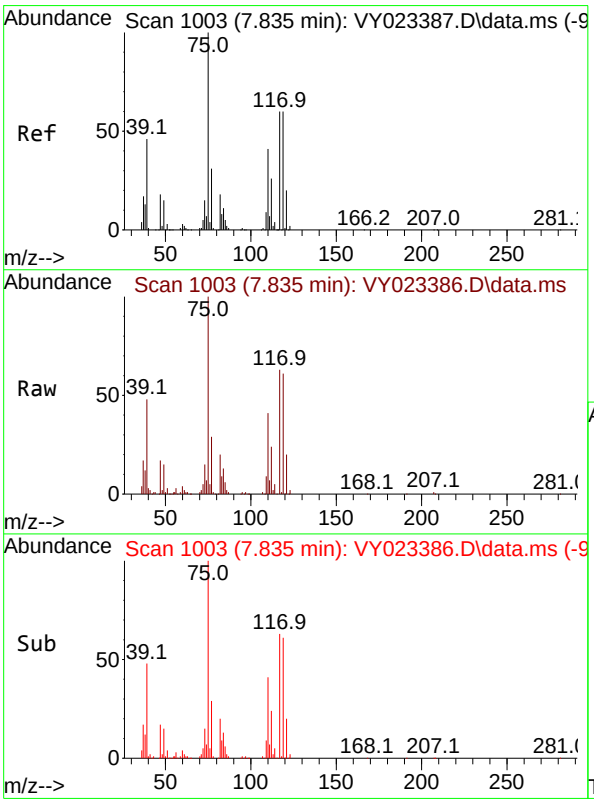
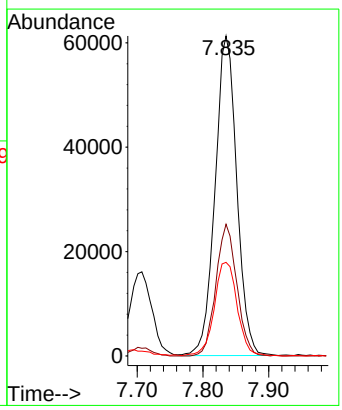


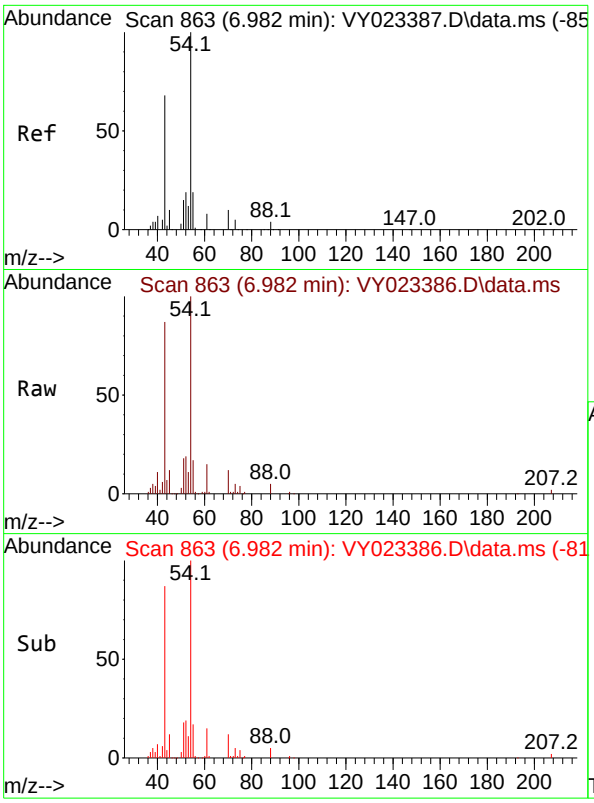




#36
1,1-Dichloropropene
Concen: 19.317 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 75 Resp: 140912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 39.7 | 19.9 | 59.7 |
| 77 | 31.0 | 25.0 | 37.6 |

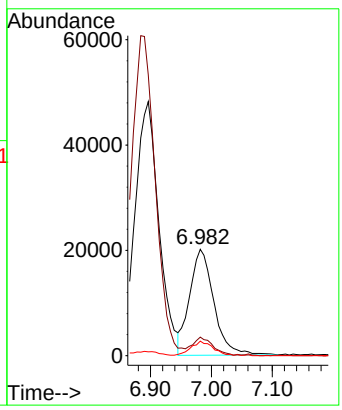





#37
Ethyl Acetate
Concen: 19.315 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 5570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.9 | 11.8 | 17.8 |
| 70 | 12.7 | 10.5 | 15.7 |




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

**Manual Integrations**
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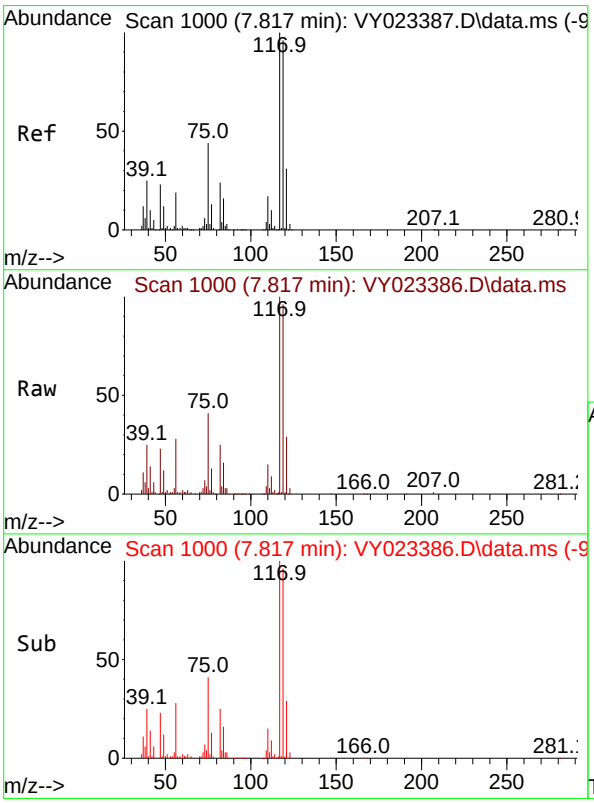
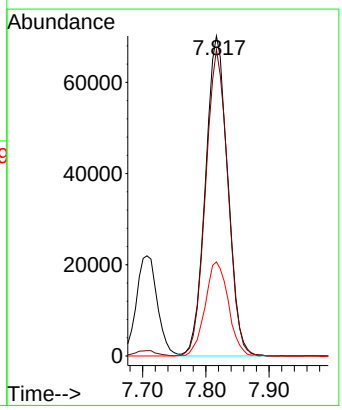
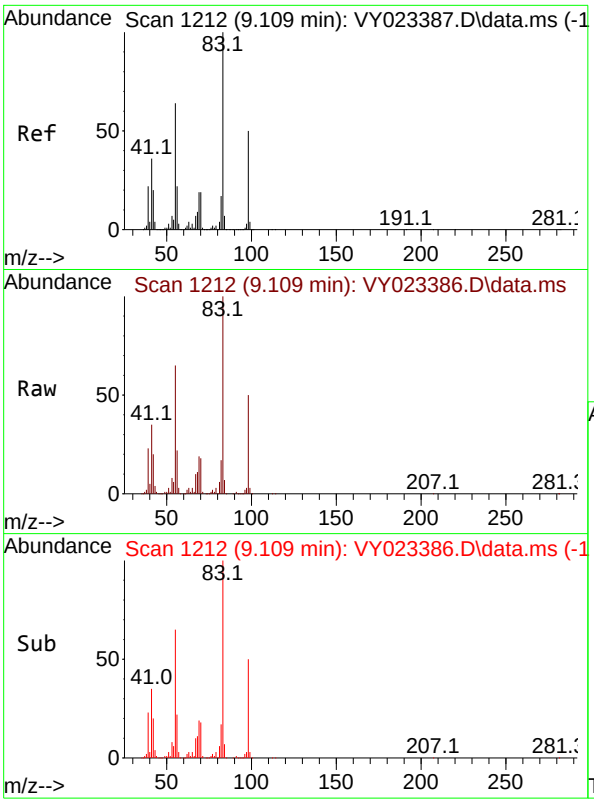



#38
Carbon Tetrachloride
Concen: 20.289 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:117 Resp: 171925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.8 | 76.8 | 115.2 |
| 121 | 29.4 | 24.5 | 36.7 |

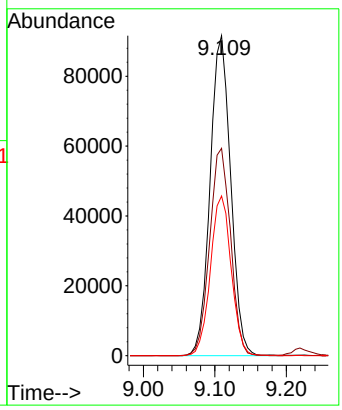





#39
Methylcyclohexane
Concen: 19.576 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 83 Resp: 18283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 64.8 | 51.4 | 77.2 |
| 98 | 49.9 | 40.4 | 60.6 |




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

**Manual Integrations**
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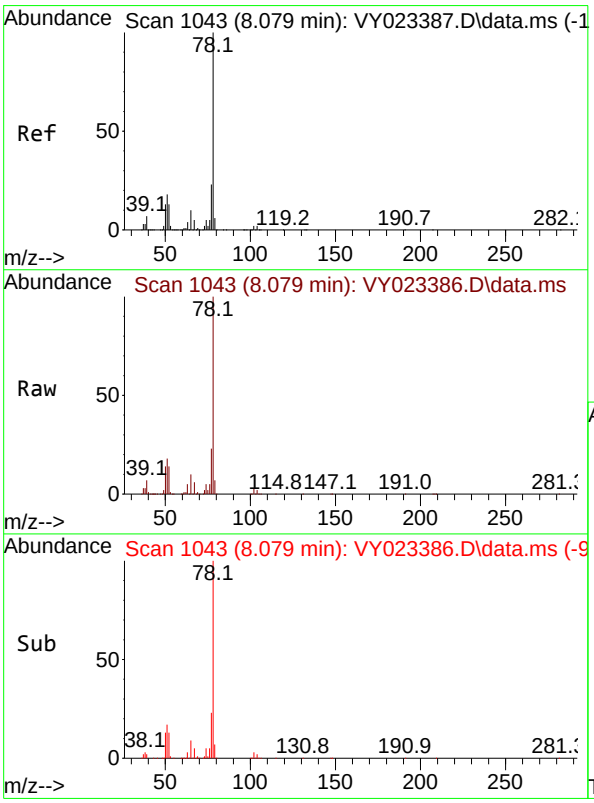
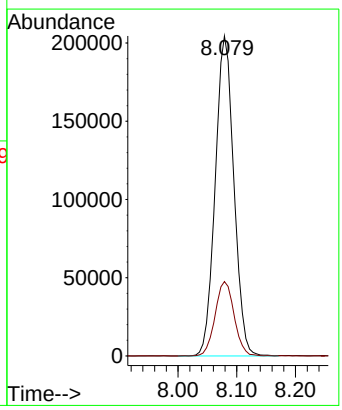
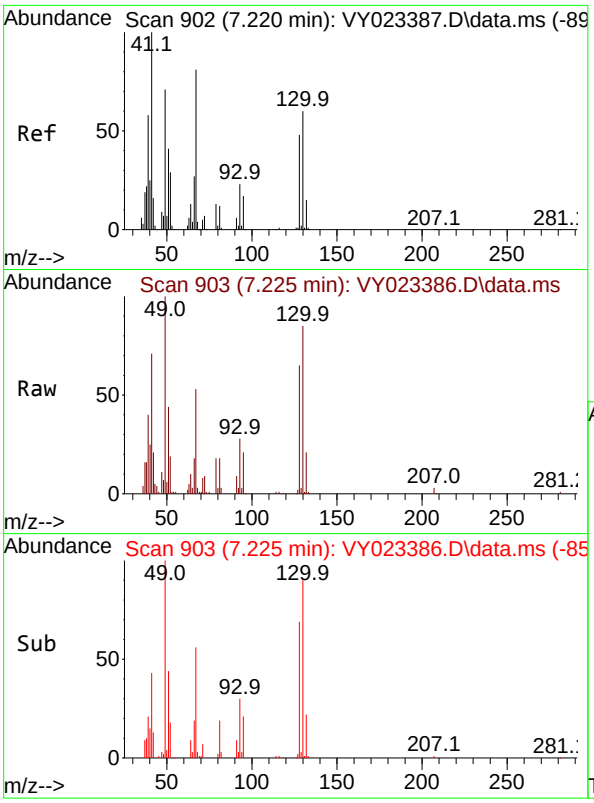



#40
Benzene
Concen: 19.809 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 78 Resp: 450471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.2 | 18.3 | 27.5 |

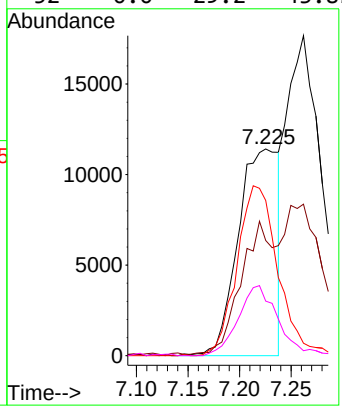





#41
Methacrylonitrile
Concen: 20.783 ug/l m
RT: 7.225 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 41 Resp: 3112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.6 | 52.2 | 78.4 |
| 67 | 0.0 | 74.9 | 112.3# |
| 52 | 0.0 | 29.2 | 43.8# |




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

**Manual Integrations**
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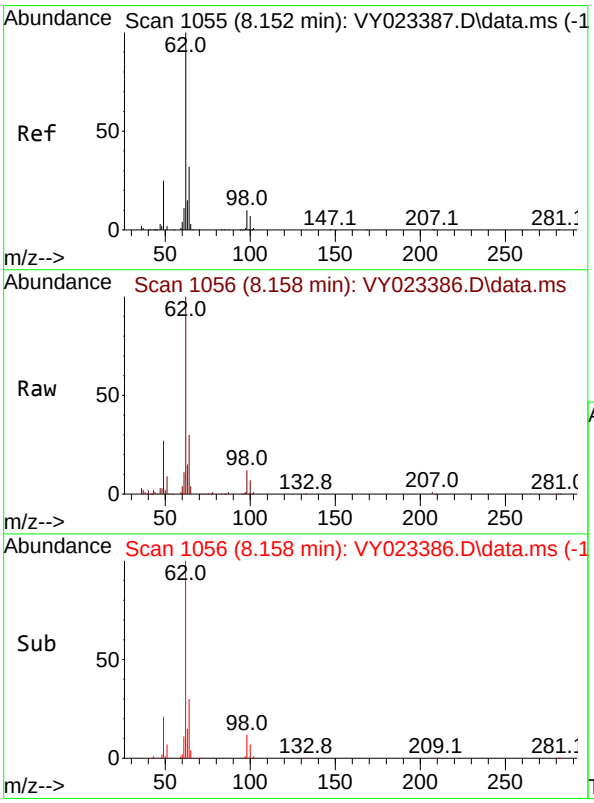
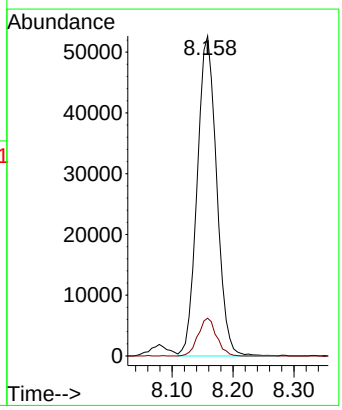
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

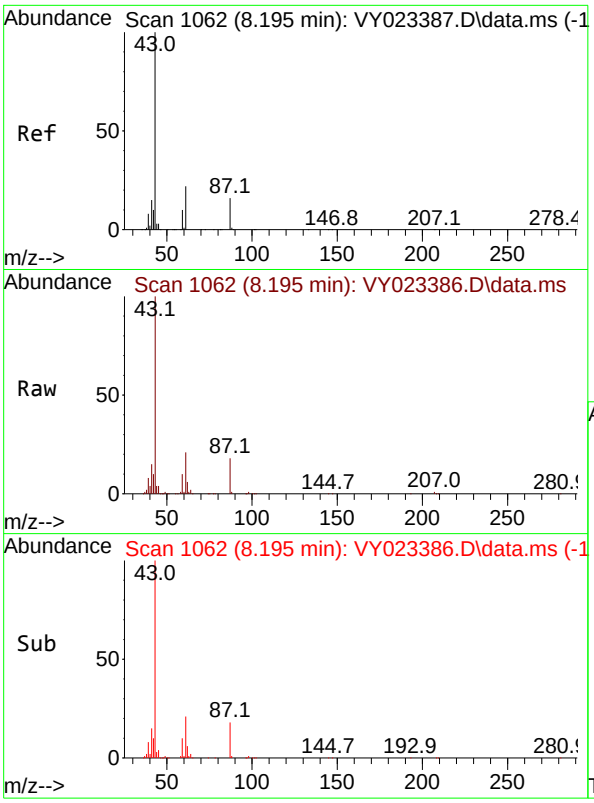



#42
1,2-Dichloroethane
Concen: 20.206 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 62 Resp: 116941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 11.2 | 0.0 | 21.6 |

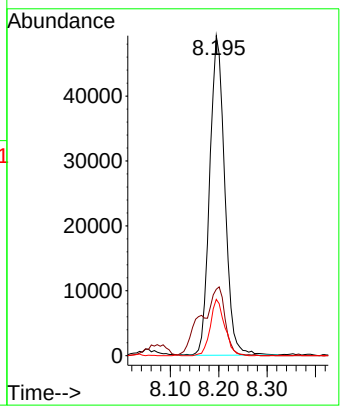





#43
Isopropyl Acetate
Concen: 19.002 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 10659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 33.1 | 18.1 | 27.1 |
| 87 | 16.9 | 13.5 | 20.3 |




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

**Manual Integrations**
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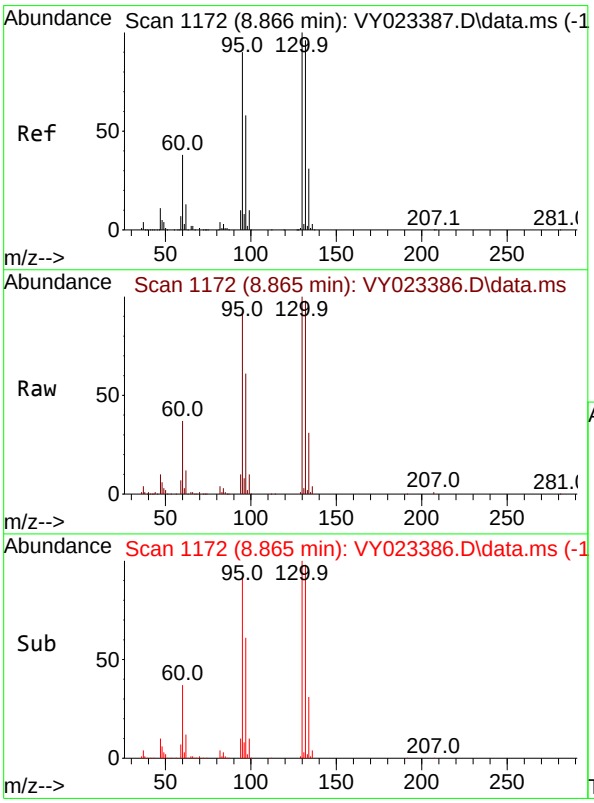
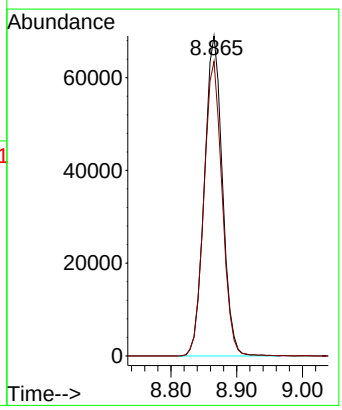
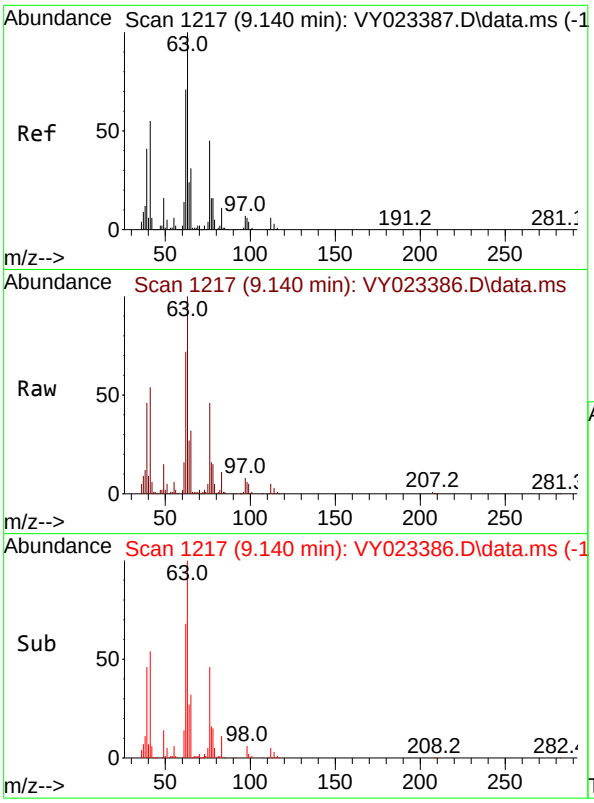



#44
Trichloroethene
Concen: 20.598 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:130 Resp: 131459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 92.0 | 0.0 | 180.6 |

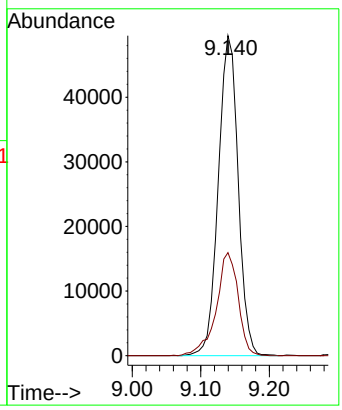





#45
1,2-Dichloropropane
Concen: 19.417 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 63 Resp: 9936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.2 | 24.9 | 37.3 |




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

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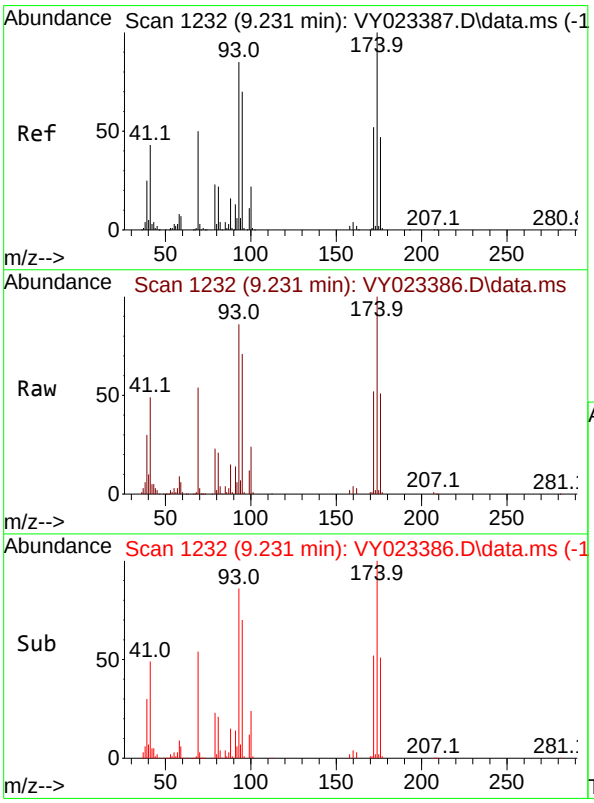
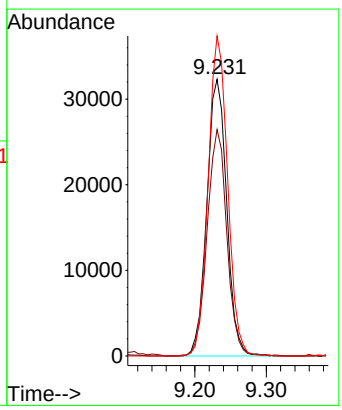
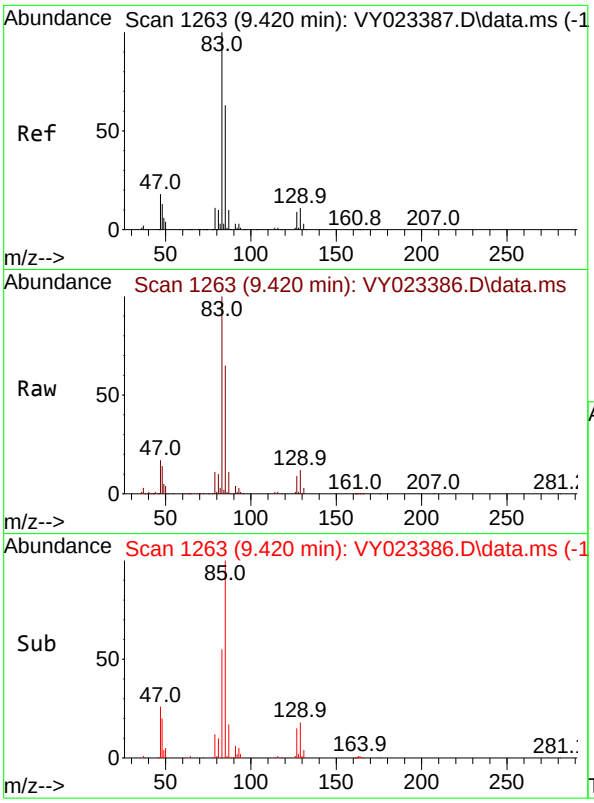



#46
Dibromomethane
Concen: 19.896 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 93 Resp: 62277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.3 | 65.4 | 98.0 |
| 174 | 113.6 | 92.9 | 139.3 |

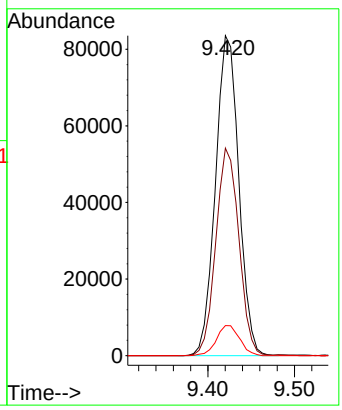





#47
Bromodichloromethane
Concen: 19.854 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 83 Resp: 15642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.9 | 50.8 | 76.2 |
| 127 | 9.4 | 7.4 | 11.2 |




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

**Manual Integrations**
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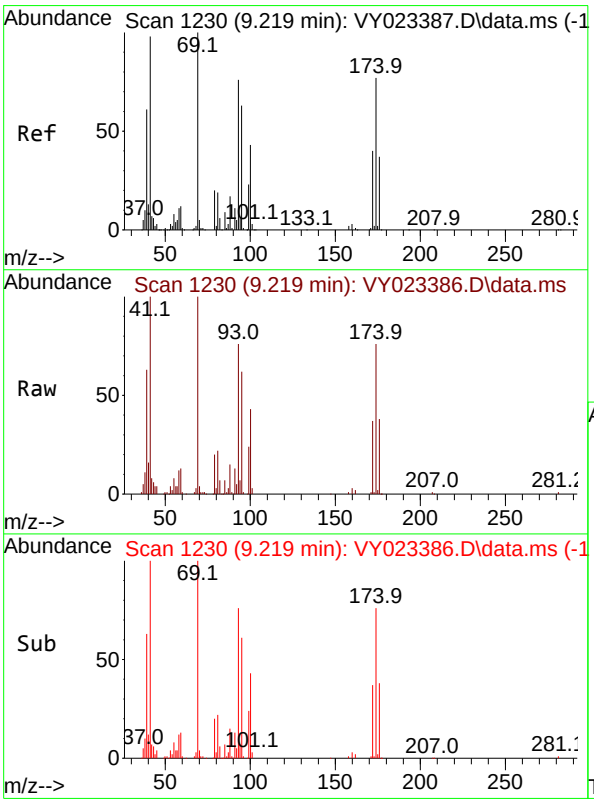
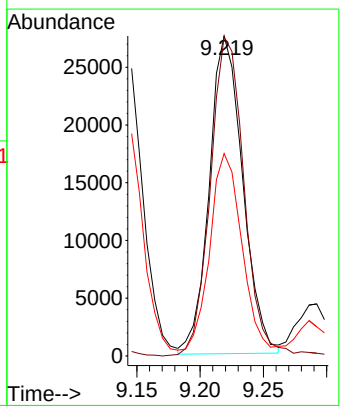
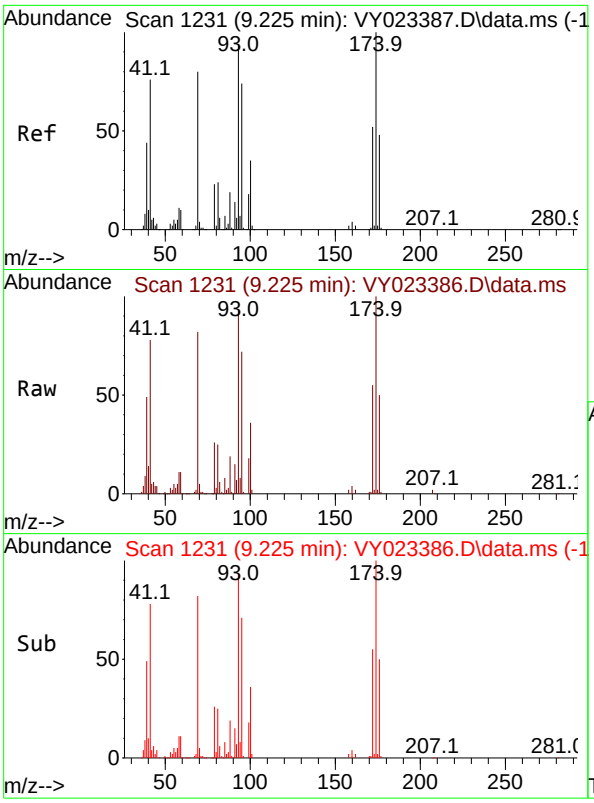



#48
Methyl methacrylate
Concen: 19.352 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 41 Resp: 50661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 102.0 | 81.0 | 121.4 |
| 39 | 58.8 | 48.2 | 72.4 |

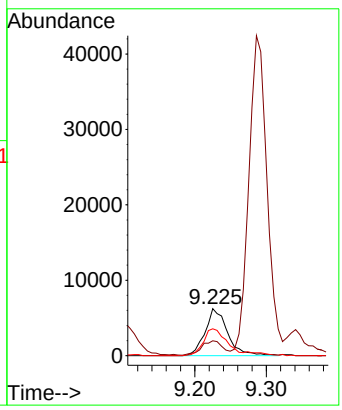





#49
1,4-Dioxane
Concen: 420.712 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 88 Resp: 1363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 28.9 | 21.8 | 32.8 |
| 58 | 58.1 | 46.8 | 70.2 |




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

**Manual Integrations**
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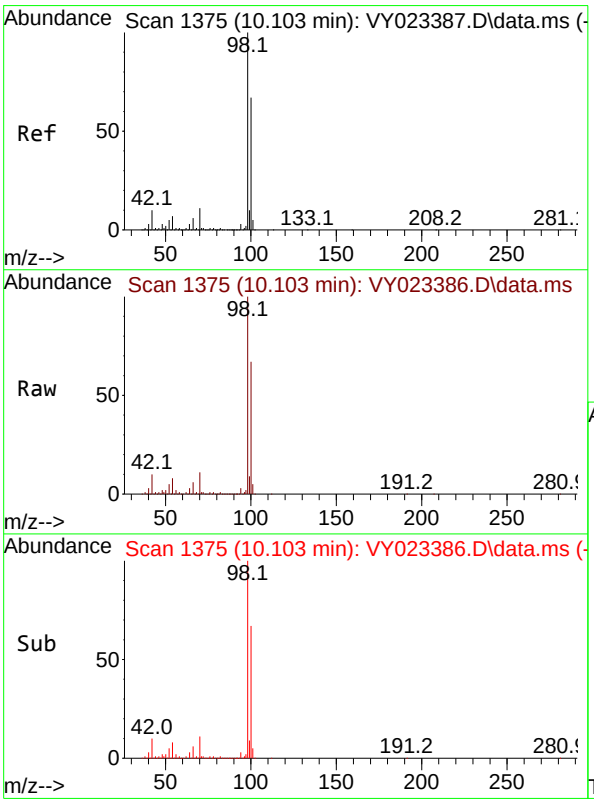
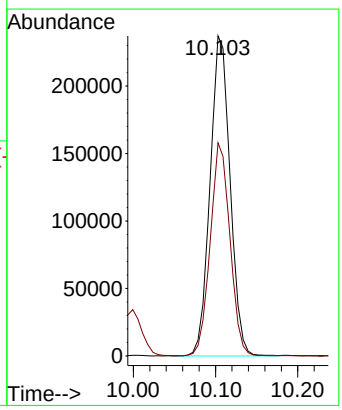
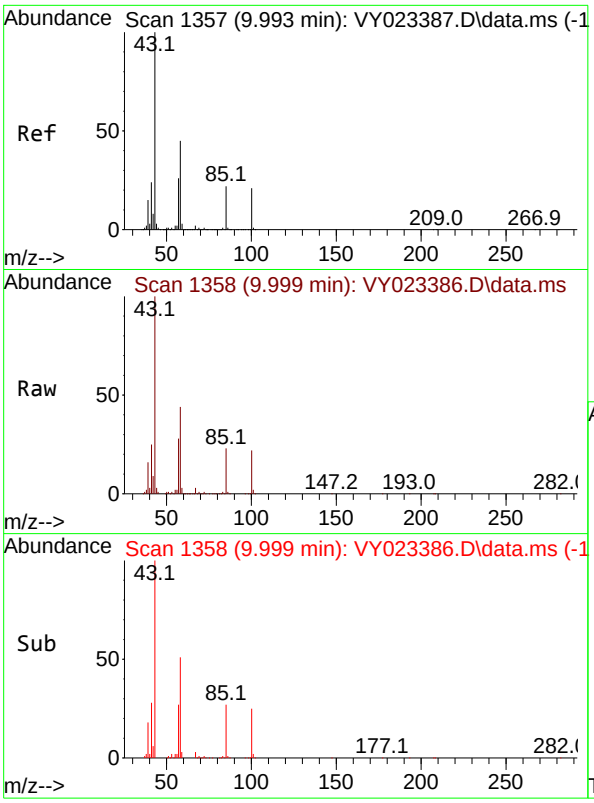



#50
Toluene-d8
Concen: 20.568 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 98 Resp: 401067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.3 | 53.0 | 79.4 |

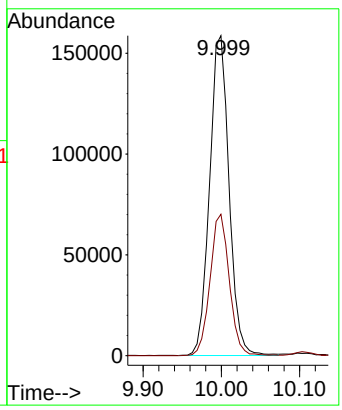





#51
4-Methyl-2-Pentanone
Concen: 95.378 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 27405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.8 | 35.3 | 52.9 |




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

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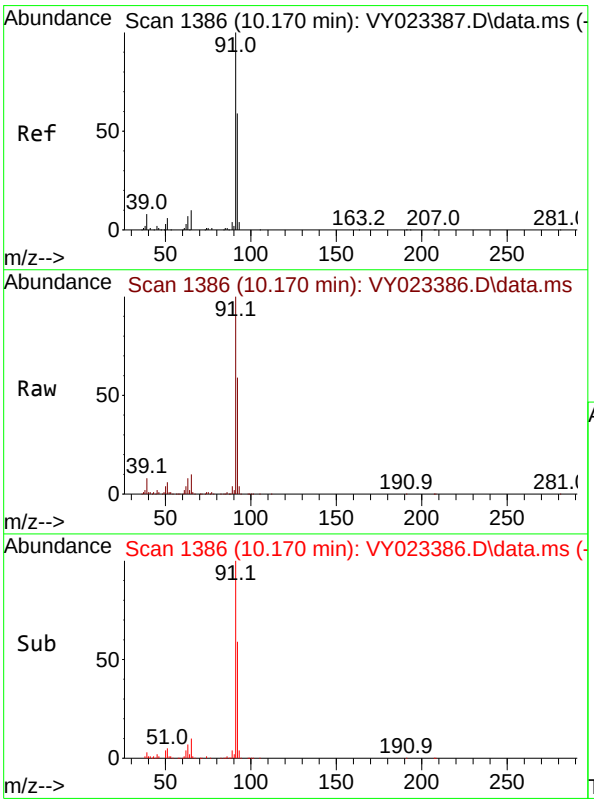
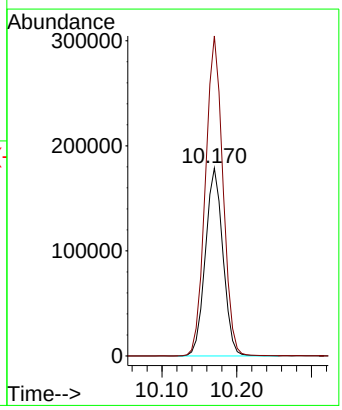
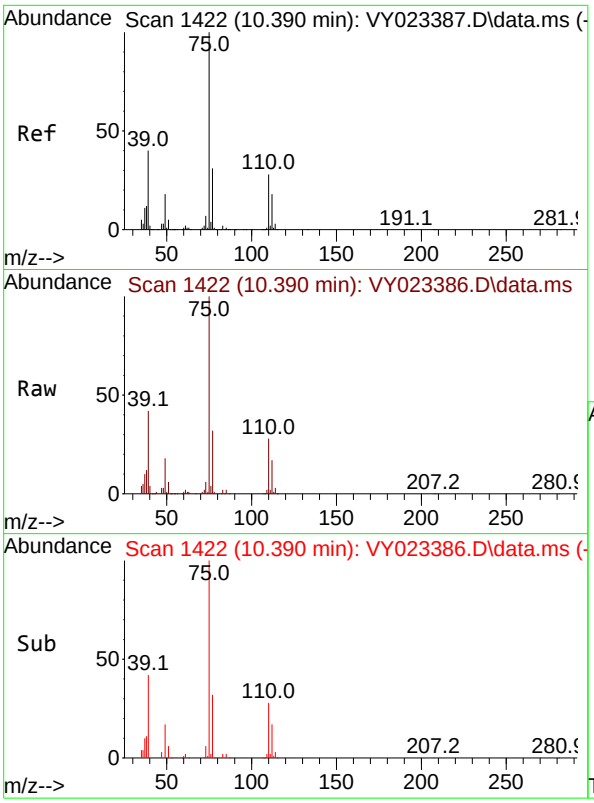



#52
Toluene
Concen: 20.191 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 92 Resp: 291453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.0 | 136.4 | 204.6 |






#53
t-1,3-Dichloropropene
Concen: 19.632 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 75 Resp: 13284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.1 | 37.7 |

**Instrument :**
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VSTDICC020

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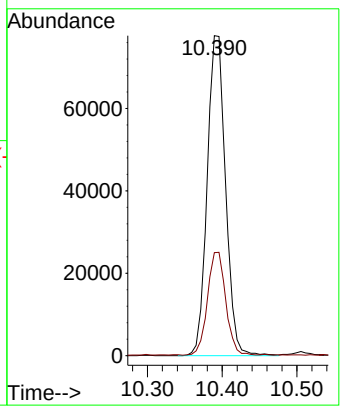
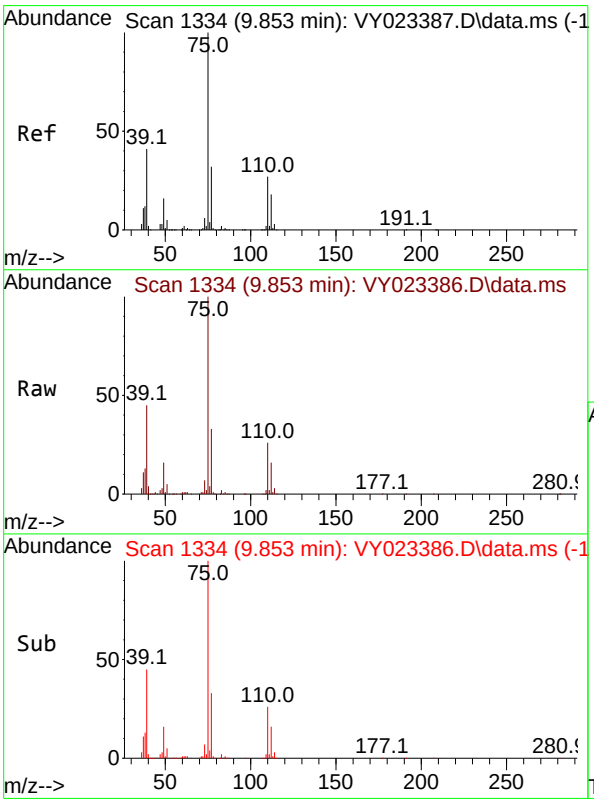
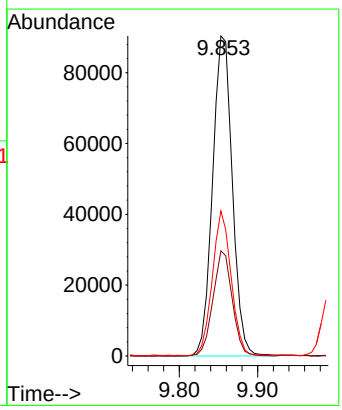


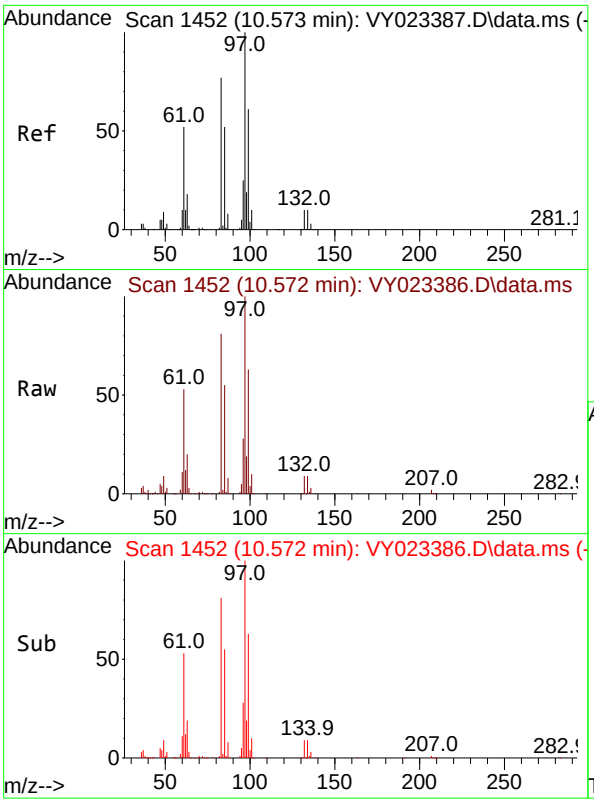




#54
cis-1,3-Dichloropropene
Concen: 19.606 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 75 Resp: 158580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.8 | 25.4 | 38.0 |
| 39 | 45.1 | 32.8 | 49.2 |

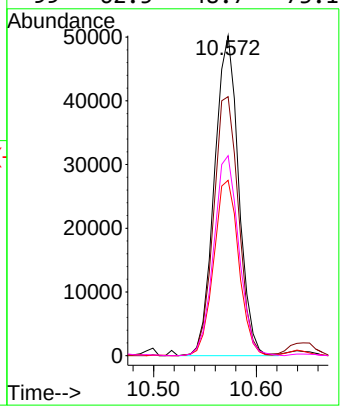





#55
1,1,2-Trichloroethane
Concen: 19.740 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 97 Resp: 8218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 80.9 | 61.8 | 92.6 |
| 85 | 54.8 | 41.3 | 61.9 |
| 99 | 62.5 | 48.7 | 73.1 |




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

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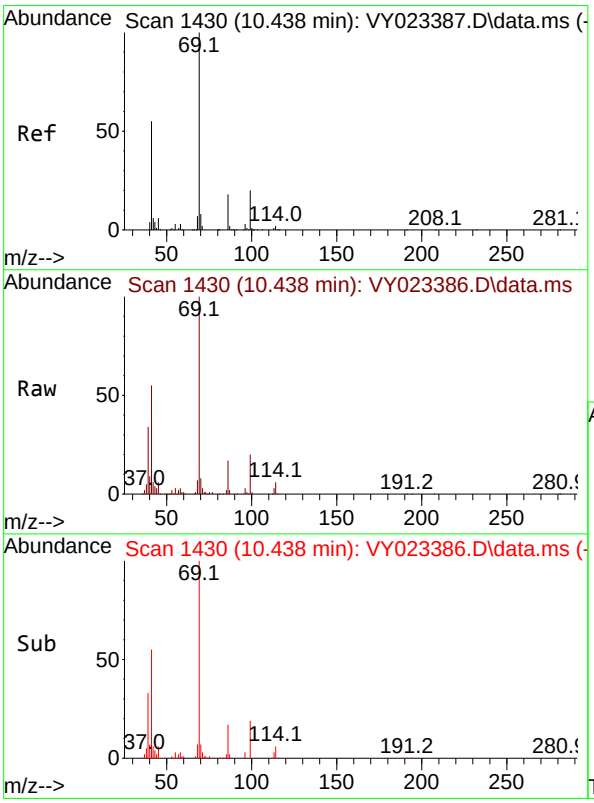
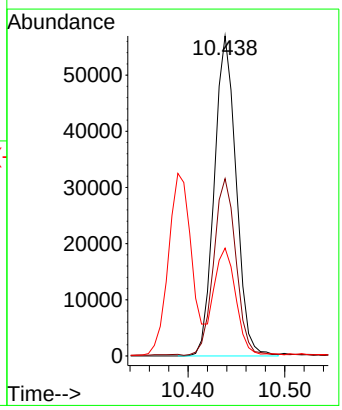
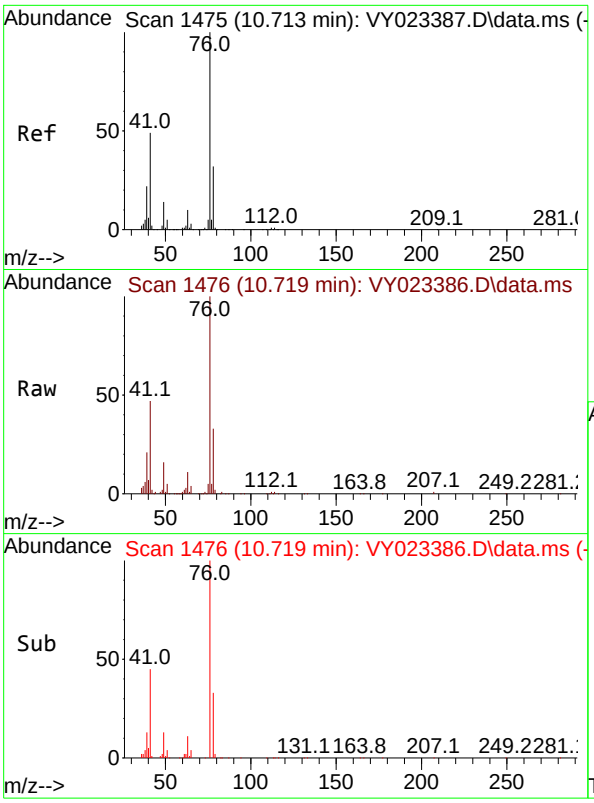



#56
Ethyl methacrylate
Concen: 18.613 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 69 Resp: 89244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 56.5 | 44.6 | 67.0 |
| 39 | 34.5 | 27.0 | 40.4 |






#57
1,3-Dichloropropane
Concen: 19.389 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 76 Resp: 13065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.5 | 25.9 | 38.9 |

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

**Manual Integrations**
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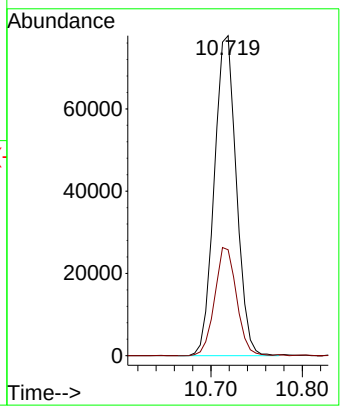
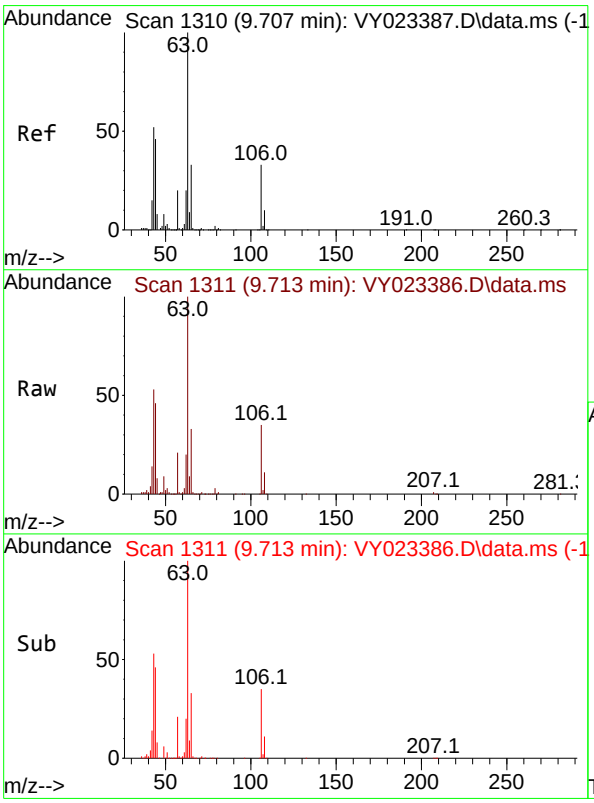
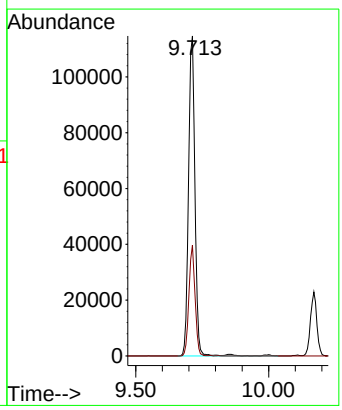


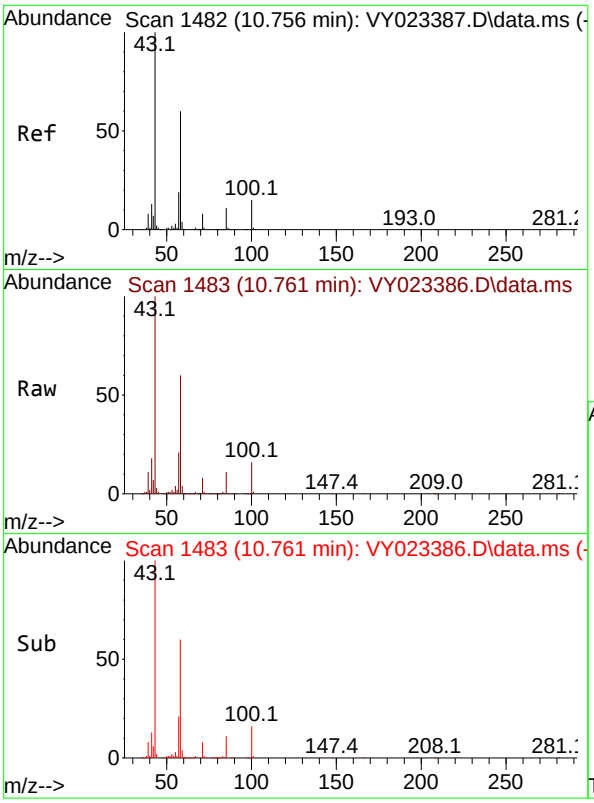




#58
2-Chloroethyl Vinyl ether
Concen: 90.982 ug/l m
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 63 Resp: 190850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 32.9 | 26.6 | 39.8 |






#59
2-Hexanone
Concen: 94.190 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

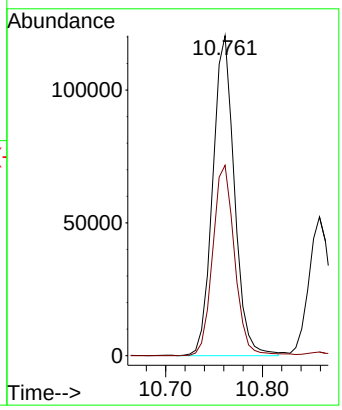
Tgt Ion: 43 Resp: 18738

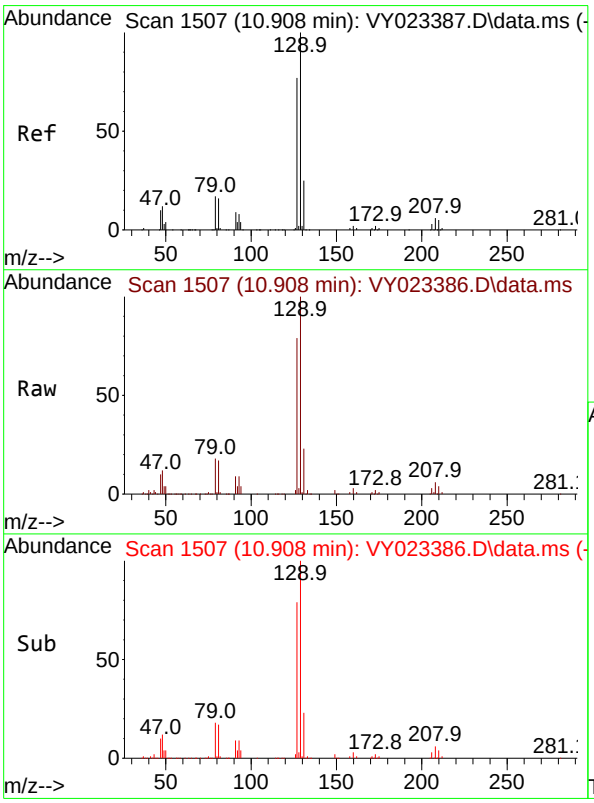
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 60.2 | 30.5 | 91.5 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

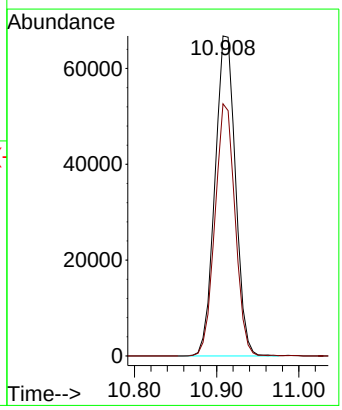


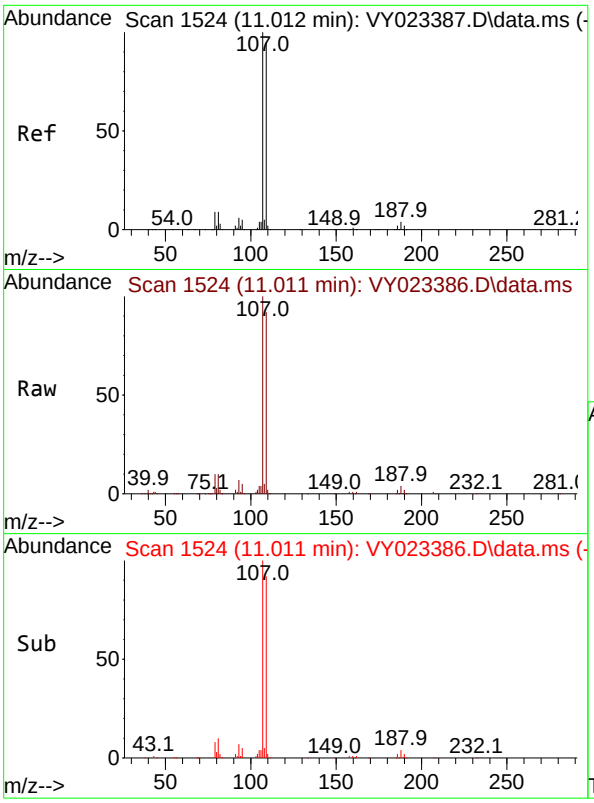




#60
Dibromochloromethane
Concen: 20.412 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:129 Resp: 115907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.1 | 38.6 | 115.7 |

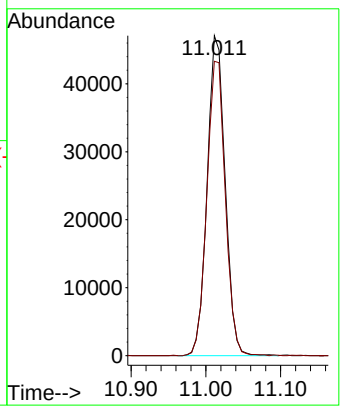





#61
1,2-Dibromoethane
Concen: 20.062 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:107 Resp: 7857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.7 | 76.1 | 114.1 |




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

**Manual Integrations**
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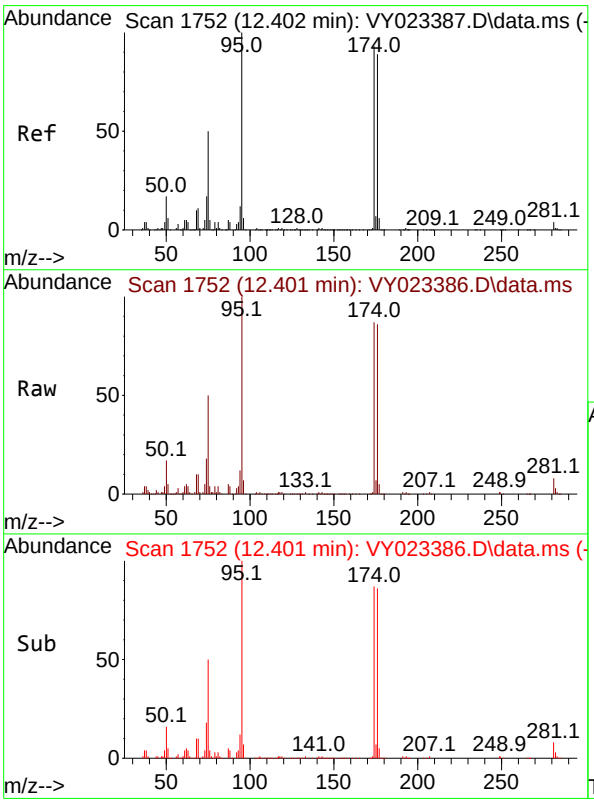
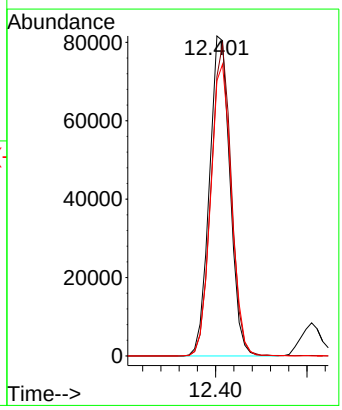
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

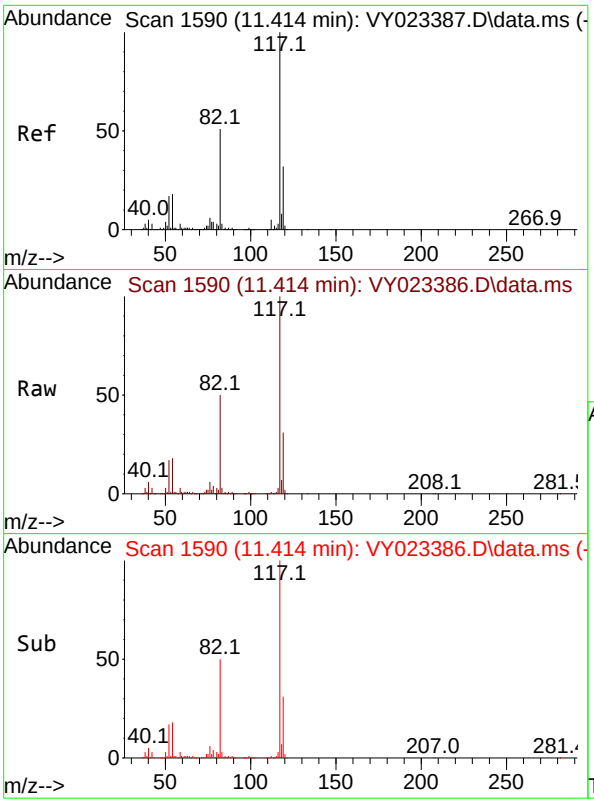



#62
4-Bromofluorobenzene
Concen: 20.680 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 95 Resp: 127216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 95.8 | 0.0 | 192.8 |
| 176 | 92.7 | 0.0 | 187.6 |

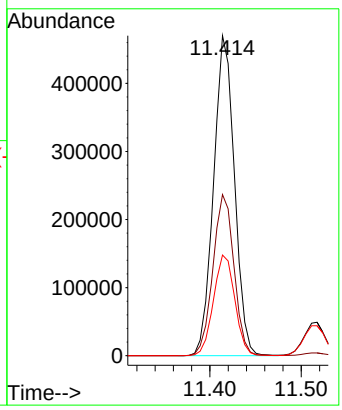





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:117 Resp: 74687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.3 | 41.0 | 61.4 |
| 119 | 31.4 | 25.6 | 38.4 |




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

**Manual Integrations**
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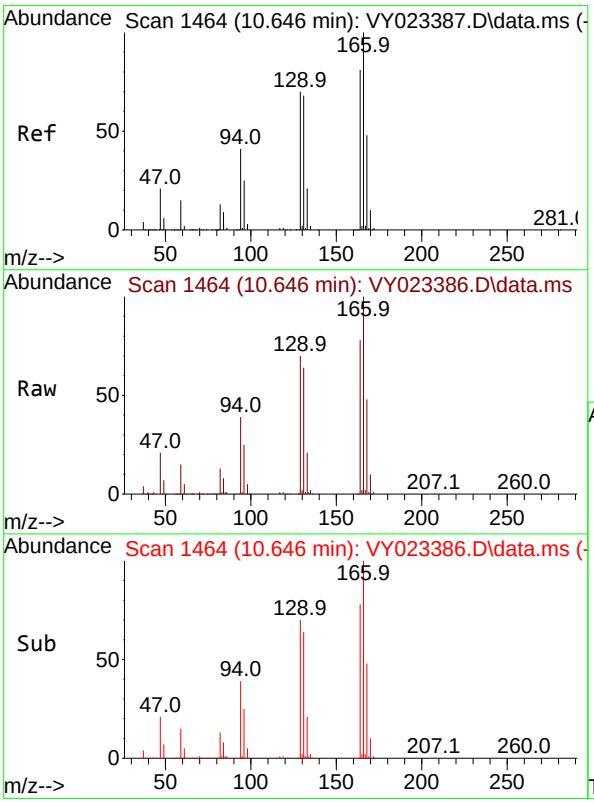
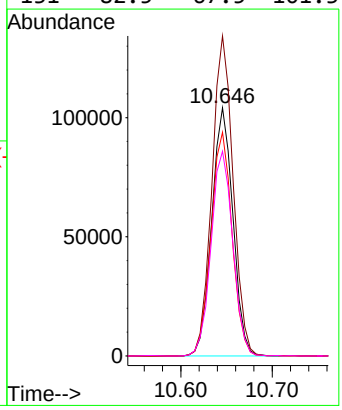
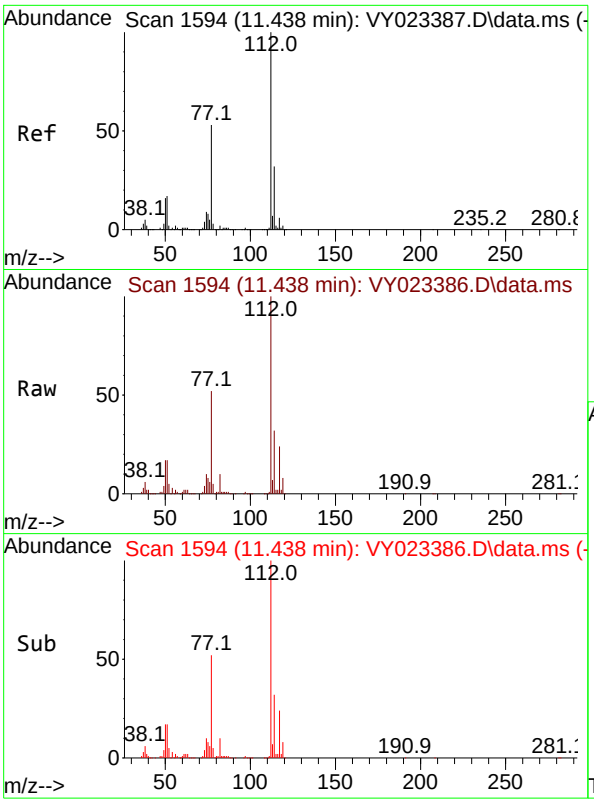



#64
Tetrachloroethene
Concen: 22.438 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:164 Resp: 167648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.9 | 99.4 | 149.0 |
| 129 | 90.1 | 69.4 | 104.2 |
| 131 | 82.5 | 67.5 | 101.3 |

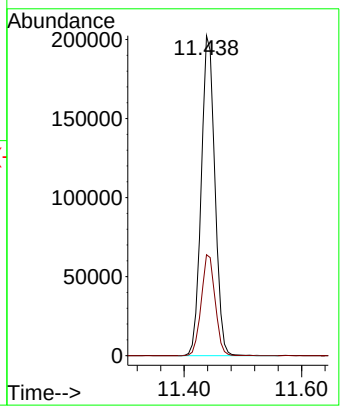





#65
Chlorobenzene
Concen: 20.109 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:112 Resp: 32636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.6 | 25.6 | 38.4 |




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

**Manual Integrations**
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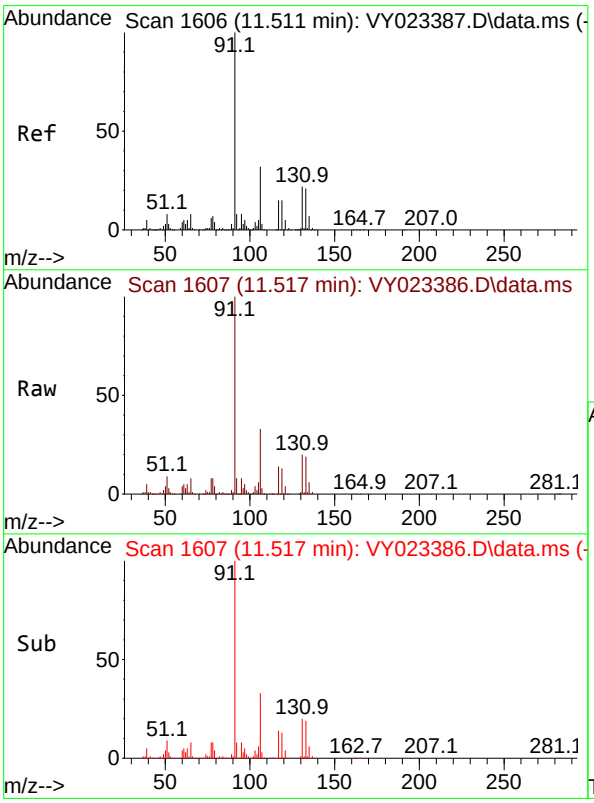
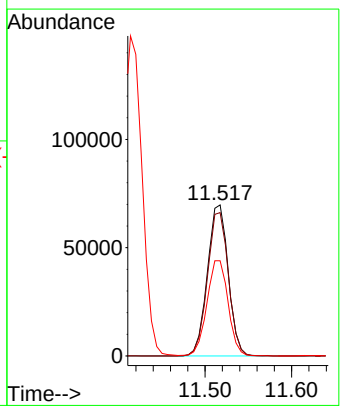
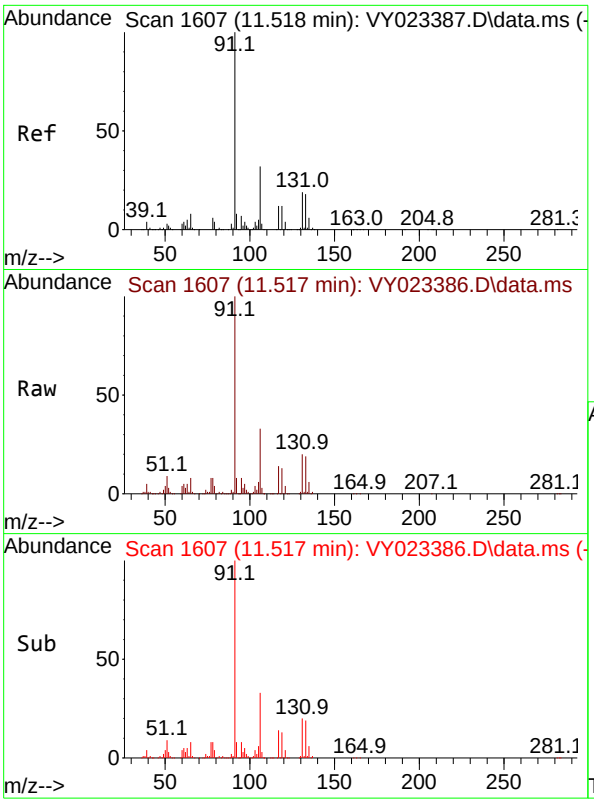



#66
1,1,1,2-Tetrachloroethane
Concen: 20.396 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:131 Resp: 116412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.9 | 48.4 | 145.2 |
| 119 | 64.4 | 32.4 | 97.2 |






#67
Ethyl Benzene
Concen: 19.768 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 91 Resp: 52360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.8 | 25.8 | 38.8 |

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

**Manual Integrations**
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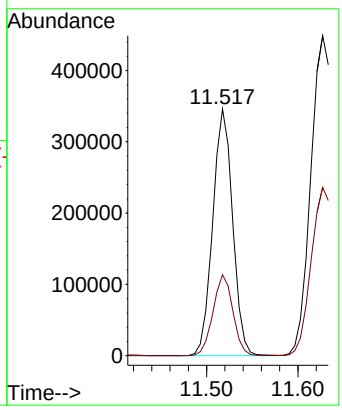
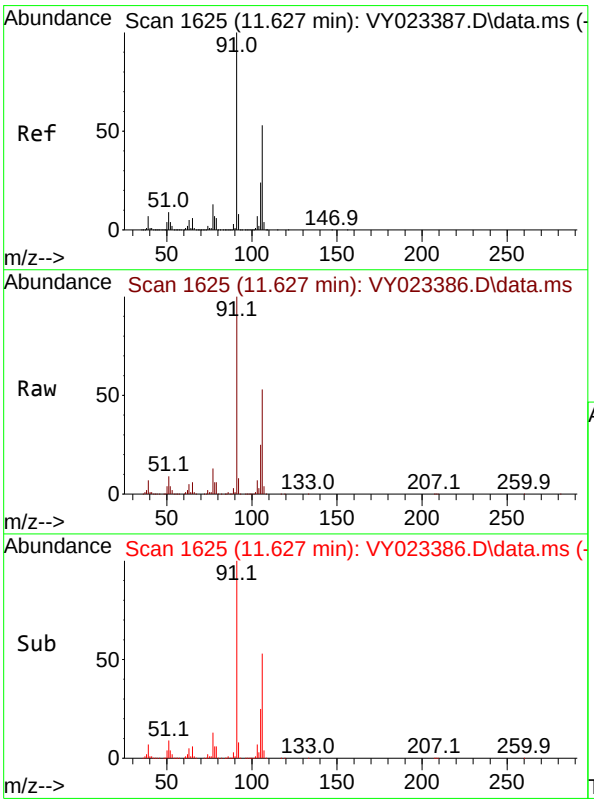
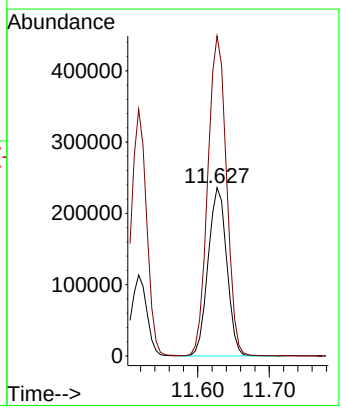


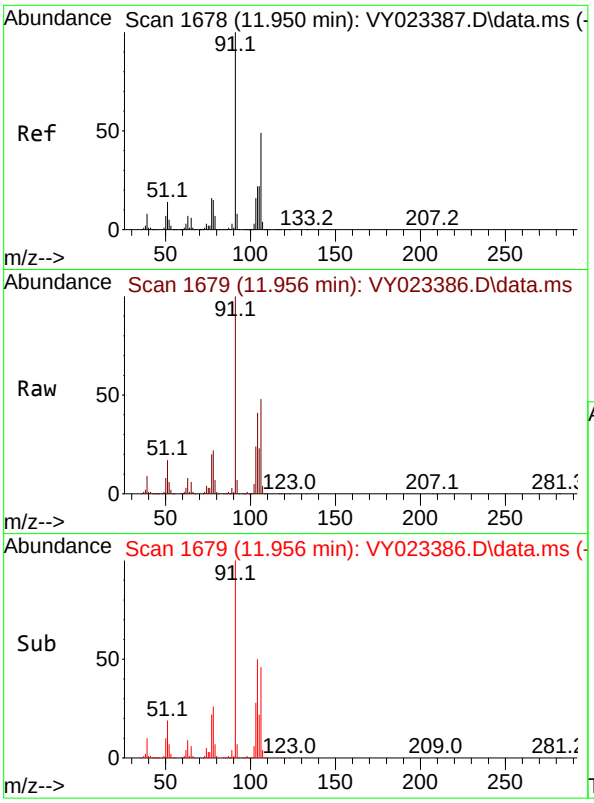




#68
m/p-Xylenes
Concen: 40.211 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:106 Resp: 426913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 190.8 | 152.6 | 229.0 |






#69
o-Xylene
Concen: 19.843 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:106 Resp: 19502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.5 | 101.4 | 304.1 |

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

**Manual Integrations**
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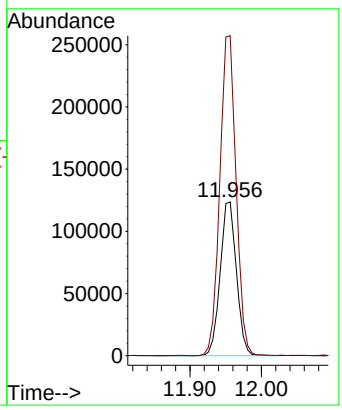
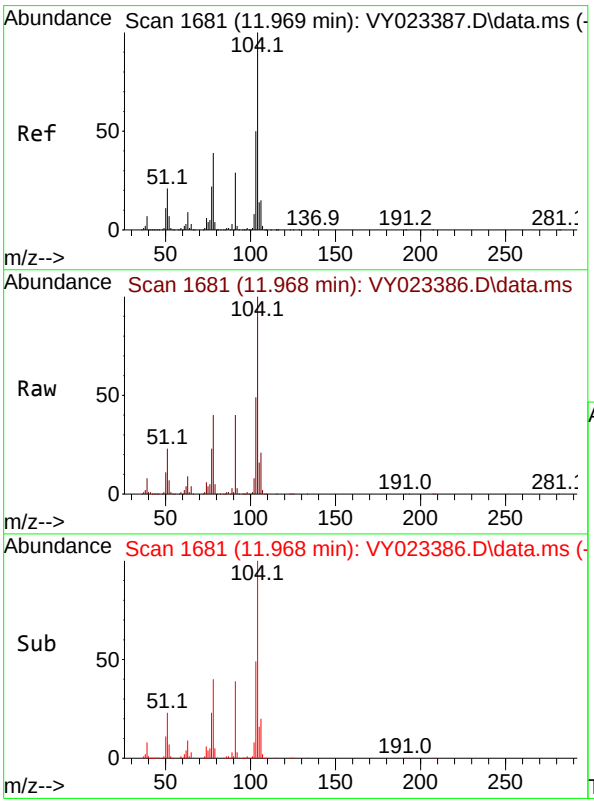
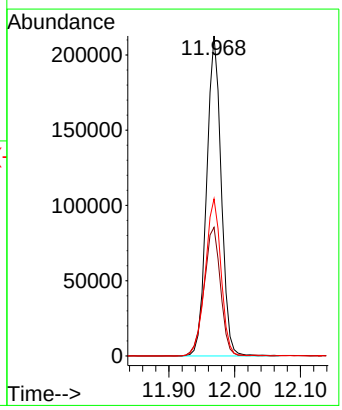


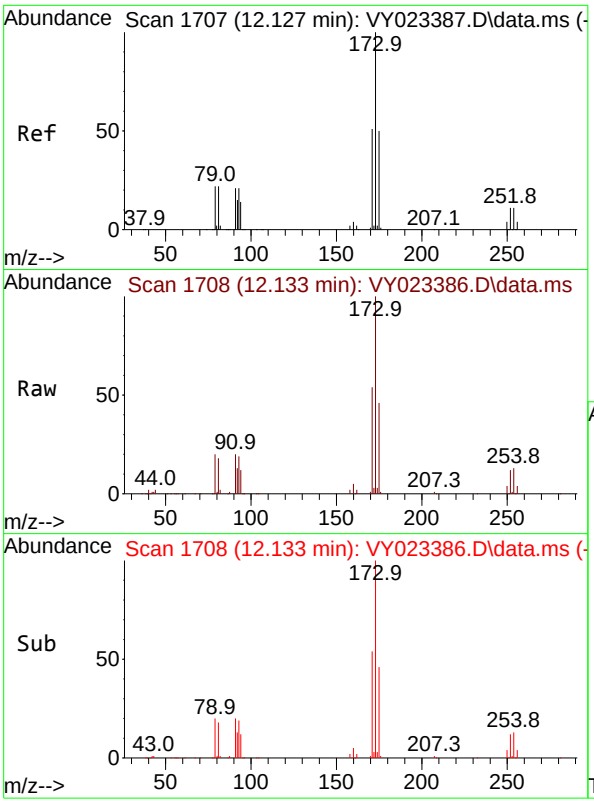




#70
Styrene
Concen: 20.208 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:104 Resp: 327934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 45.4 | 36.1 | 54.1 |
| 103 | 53.3 | 43.2 | 64.8 |

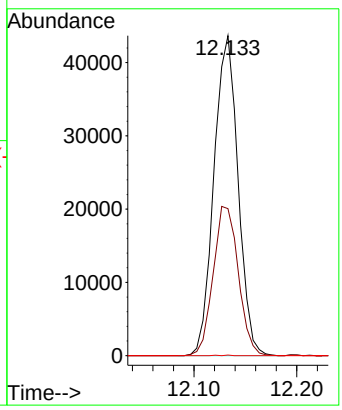





#71
Bromoform
Concen: 20.814 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:173 Resp: 7111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.7 | 24.8 | 74.3 |
| 254 | 0.0 | 0.1 | 0.1 |




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

**Manual Integrations**
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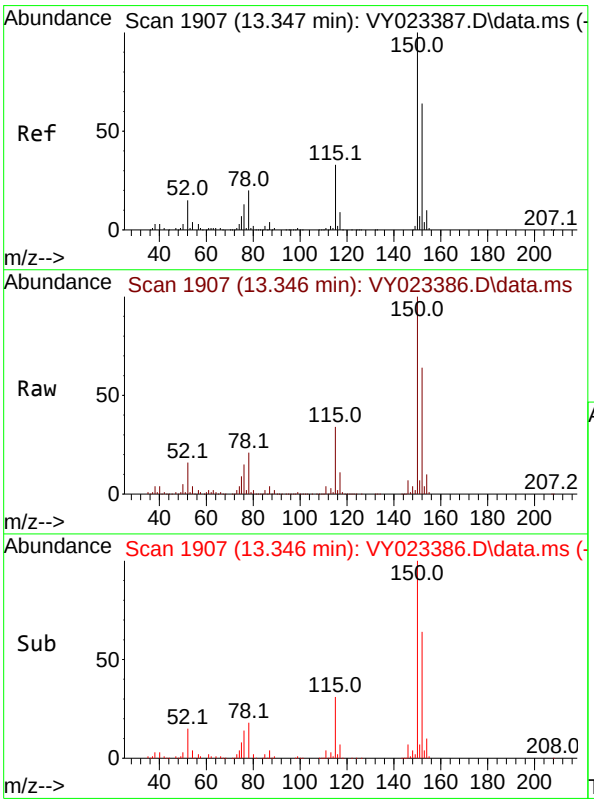
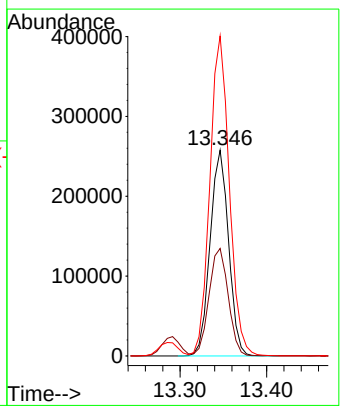
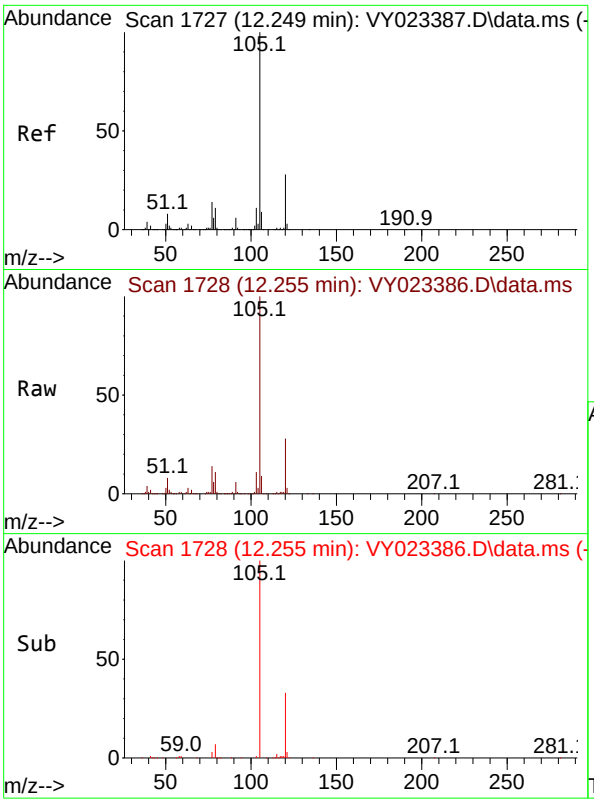



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:152 Resp: 382604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 54.6 | 27.1 | 81.2 |
| 150 | 163.2 | 0.0 | 347.4 |

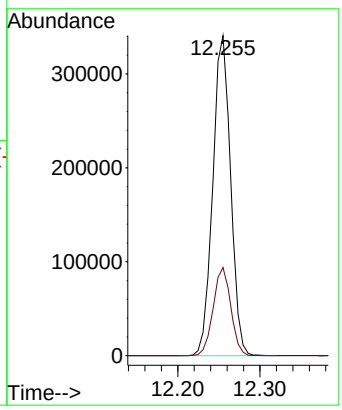





#73
Isopropylbenzene
Concen: 20.136 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:105 Resp: 51318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.2 | 13.9 | 41.7 |




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

**Manual Integrations**
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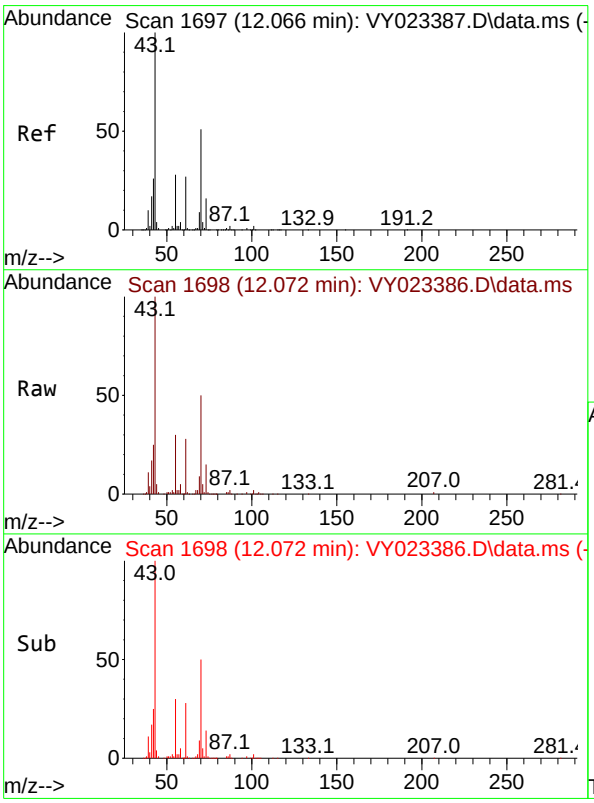
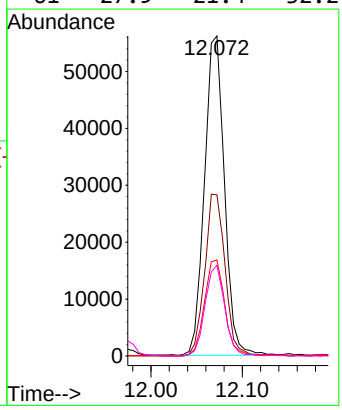
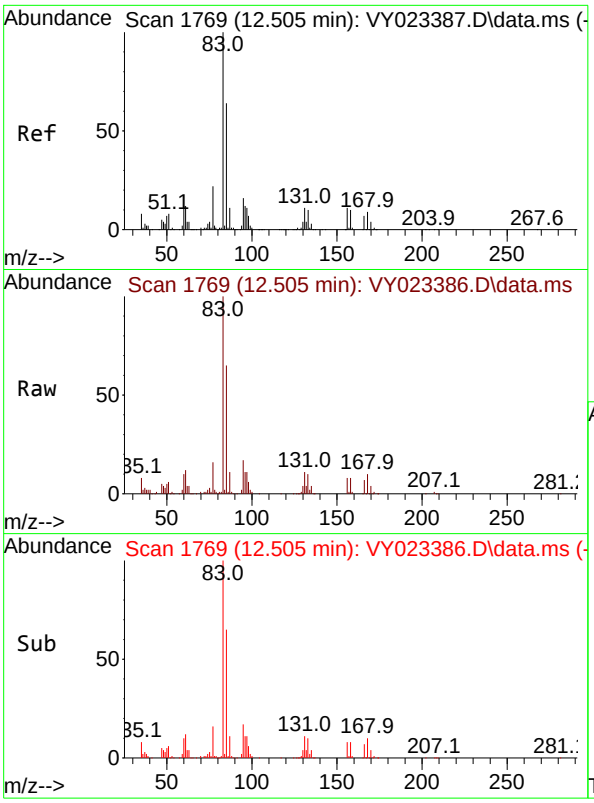



#74
N-amyl acetate
Concen: 17.860 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 85063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 51.8 | 41.1 | 61.7 |
| 55 | 30.6 | 23.0 | 34.6 |
| 61 | 27.9 | 21.4 | 32.2 |

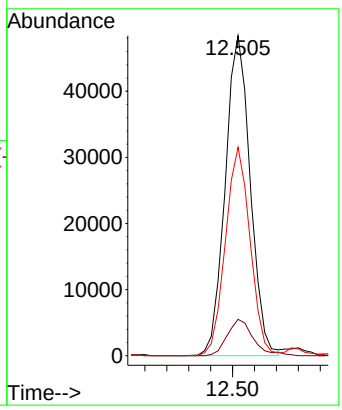





#75
1,1,2,2-Tetrachloroethane
Concen: 18.069 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 83 Resp: 7682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.8 | 5.9 | 17.6 |
| 85 | 64.1 | 31.8 | 95.3 |




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

**Manual Integrations**
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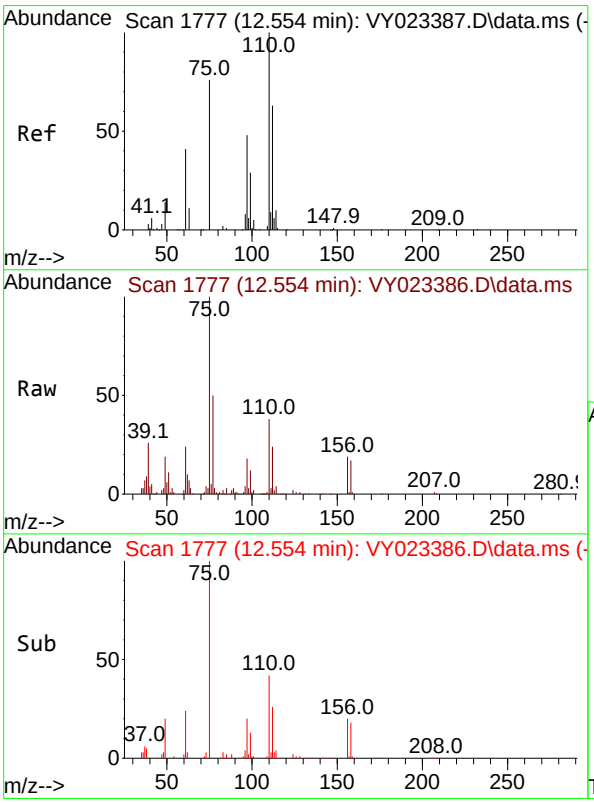
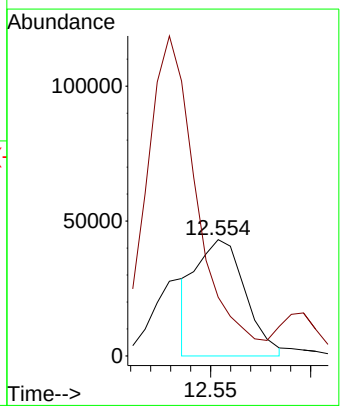
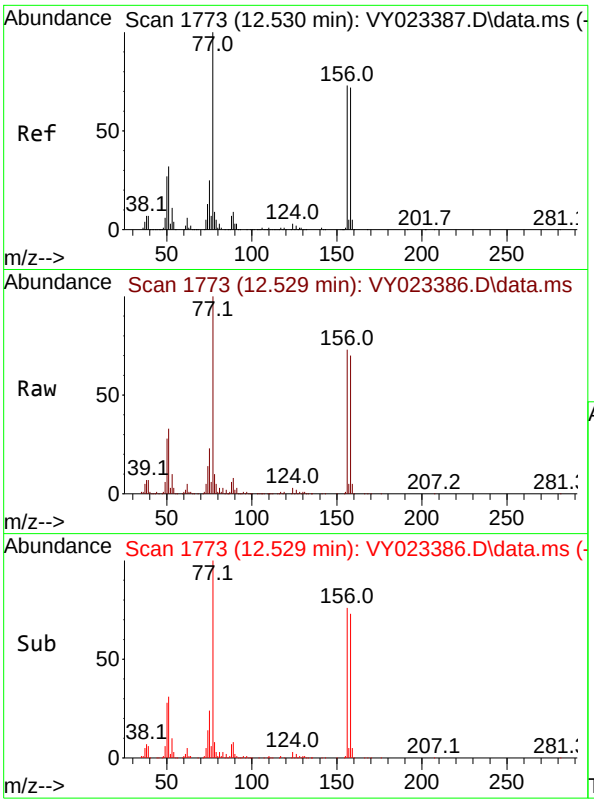



#76
1,2,3-Trichloropropane
Concen: 19.634 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 75 Resp: 74100

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

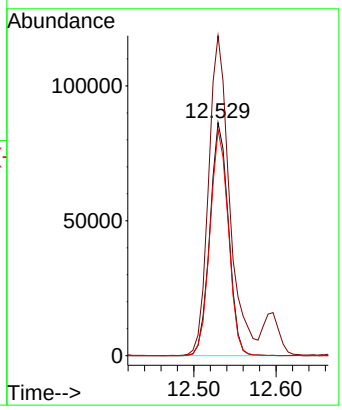





#77
Bromobenzene
Concen: 20.700 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:156 Resp: 13540

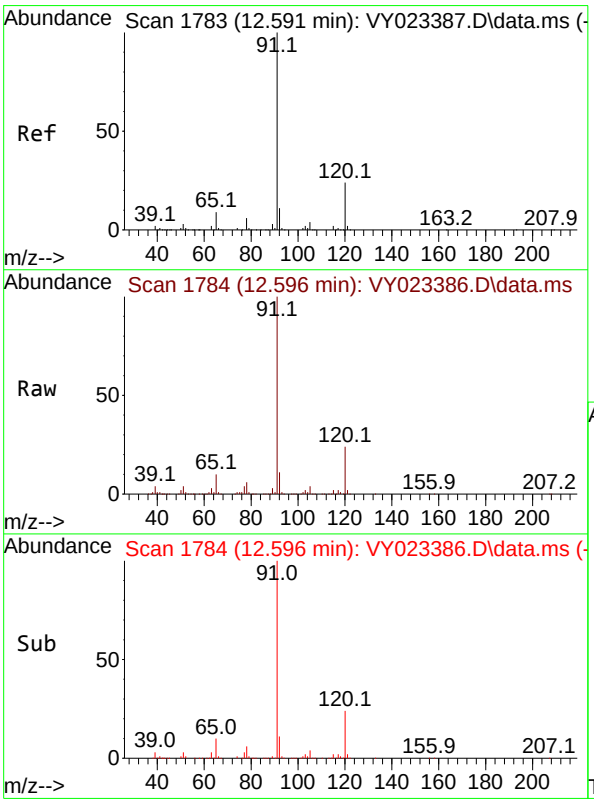
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 156.2 | 76.8 | 230.5 |
| 158 | 96.1 | 49.0 | 147.2 |




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

**Manual Integrations**
**APPROVED**

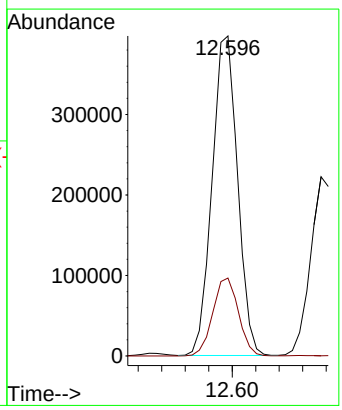
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

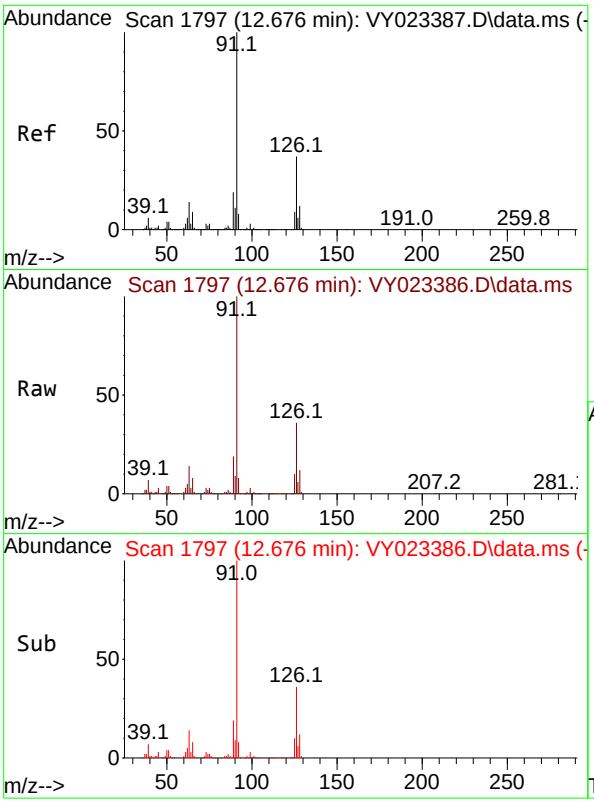



#78
n-propylbenzene
Concen: 19.945 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 91 Resp: 597829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.6 | 12.3 | 36.8 |

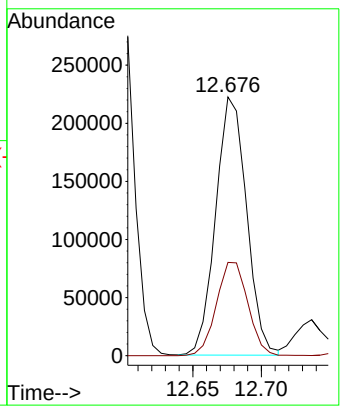





#79
2-Chlorotoluene
Concen: 20.179 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 91 Resp: 34920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.8 | 18.5 | 55.5 |




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

**Manual Integrations**
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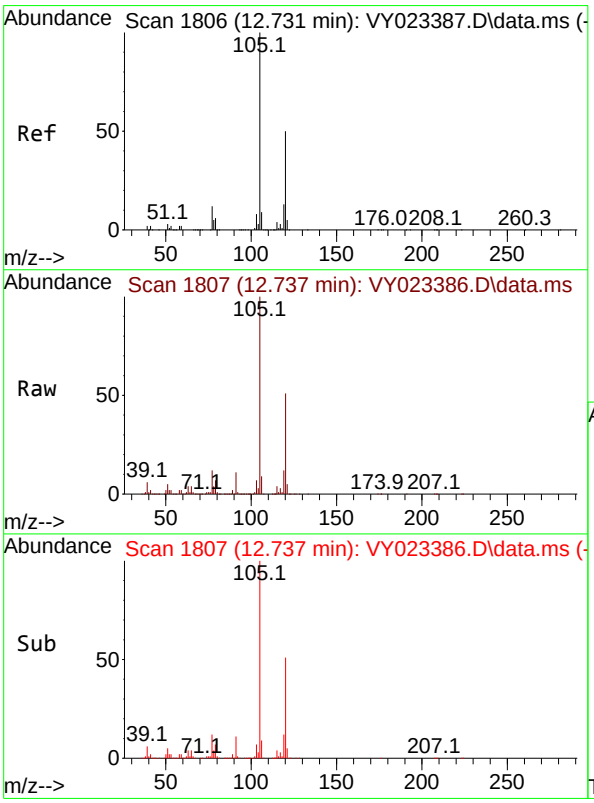
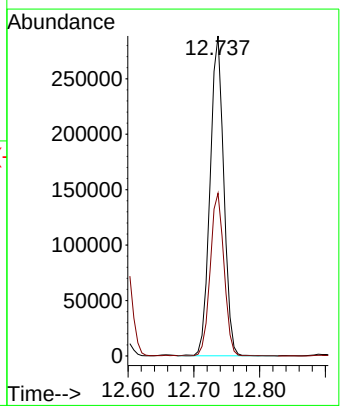
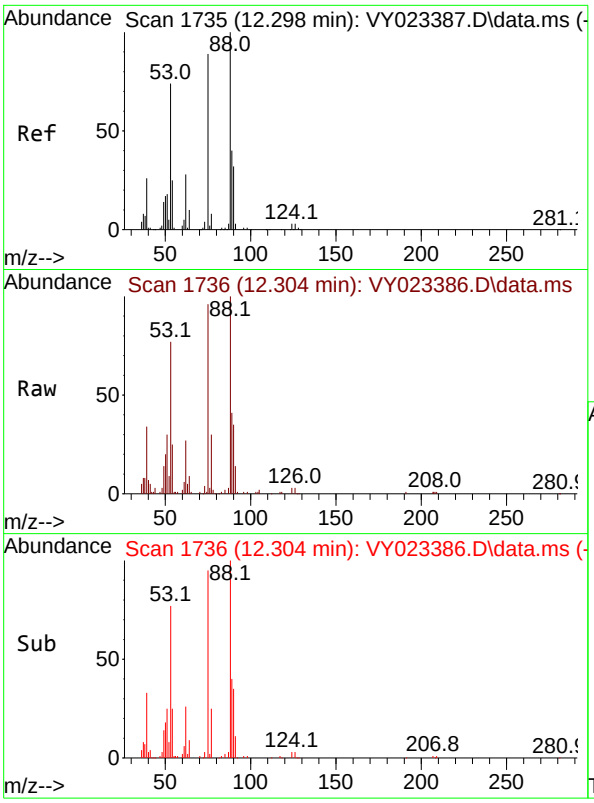



#80
1,3,5-Trimethylbenzene
Concen: 20.208 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:105 Resp: 418684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 51.1 | 25.4 | 76.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 19.234 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 75 Resp: 2692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 84.4 | 68.6 | 102.8 |
| 89 | 46.4 | 39.0 | 58.4 |

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

**Manual Integrations**
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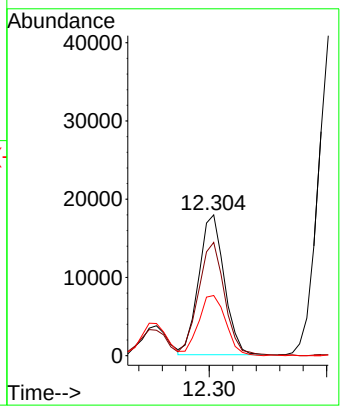
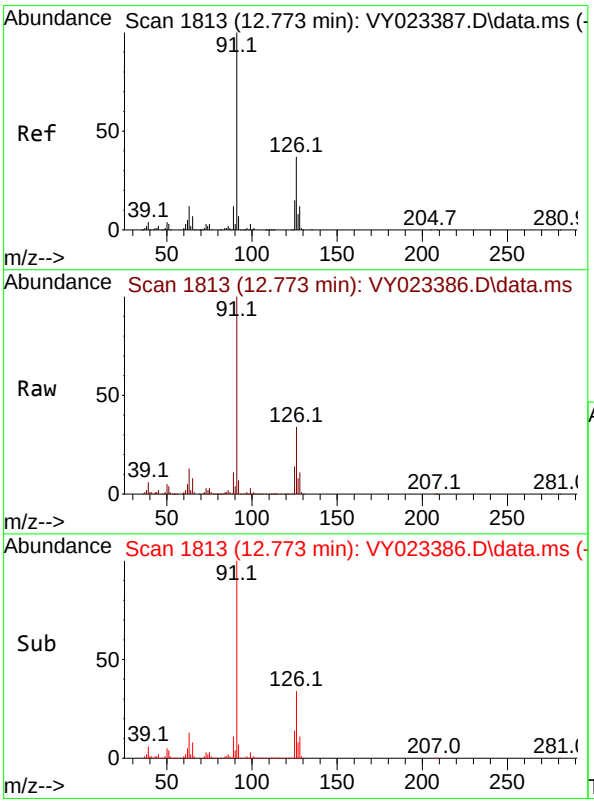
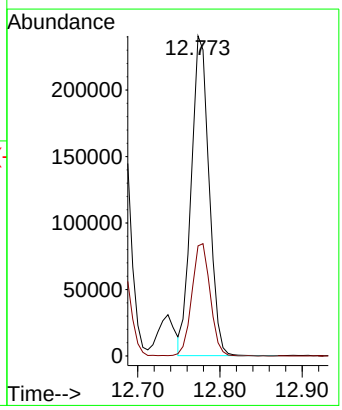


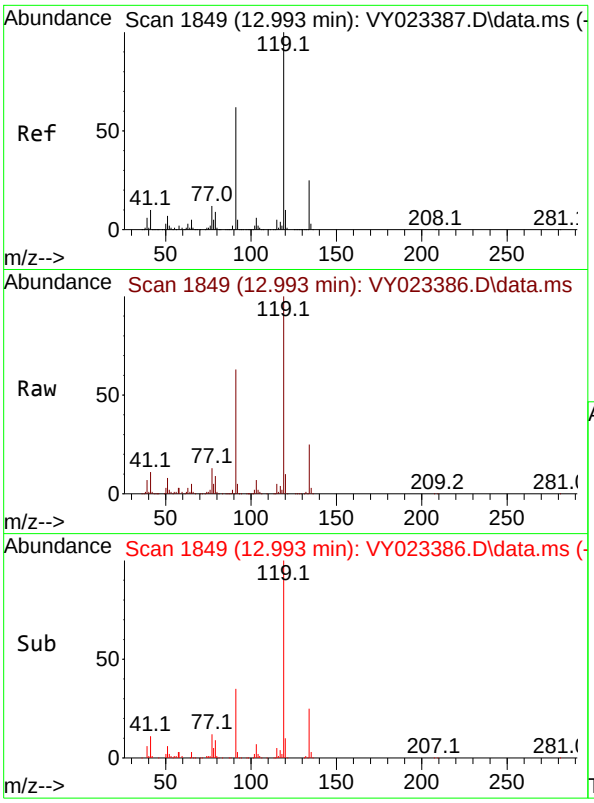




#82
4-Chlorotoluene
Concen: 20.000 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 91 Resp: 361458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.1 | 18.4 | 55.4 |

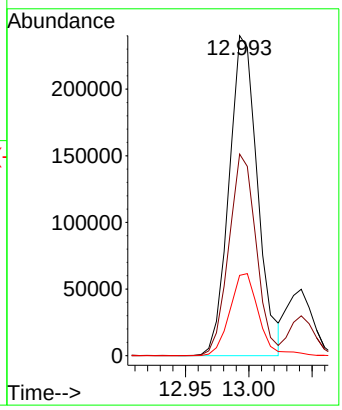





#83
tert-Butylbenzene
Concen: 19.983 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:119 Resp: 37727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 60.4 | 29.9 | 89.8 |
| 134 | 26.1 | 12.9 | 38.7 |




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

**Manual Integrations**
**APPROVED**

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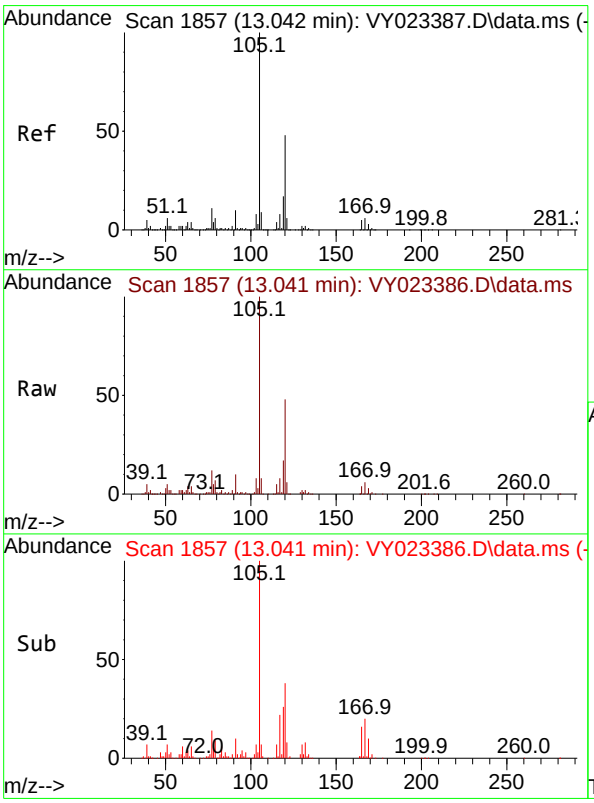
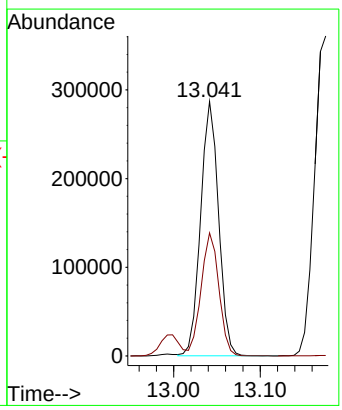
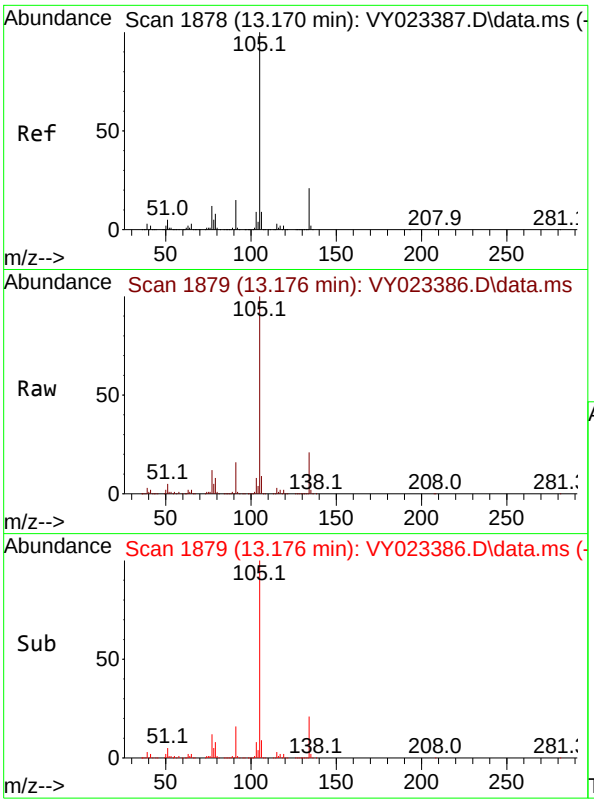



#84
1,2,4-Trimethylbenzene
Concen: 20.162 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:105 Resp: 413292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.6 | 23.8 | 71.2 |

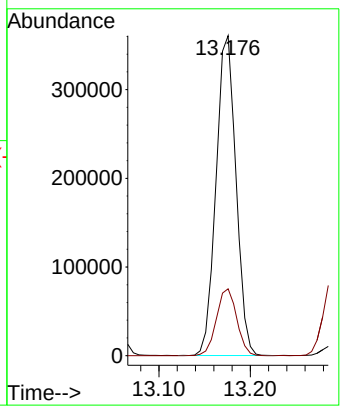





#85
sec-Butylbenzene
Concen: 19.990 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:105 Resp: 54658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.3 | 10.7 | 32.1 |




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

**Manual Integrations**
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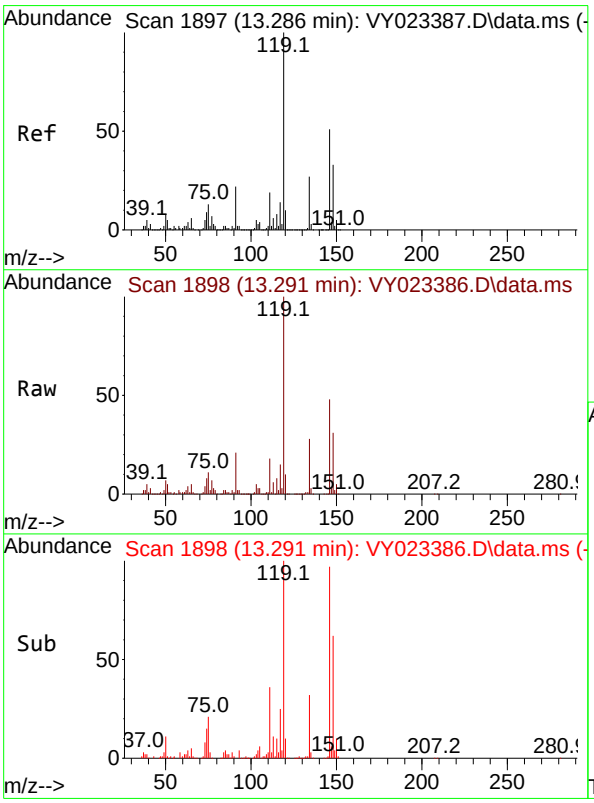
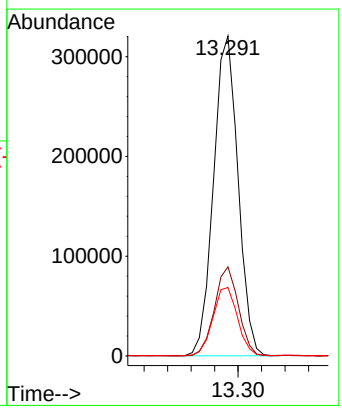
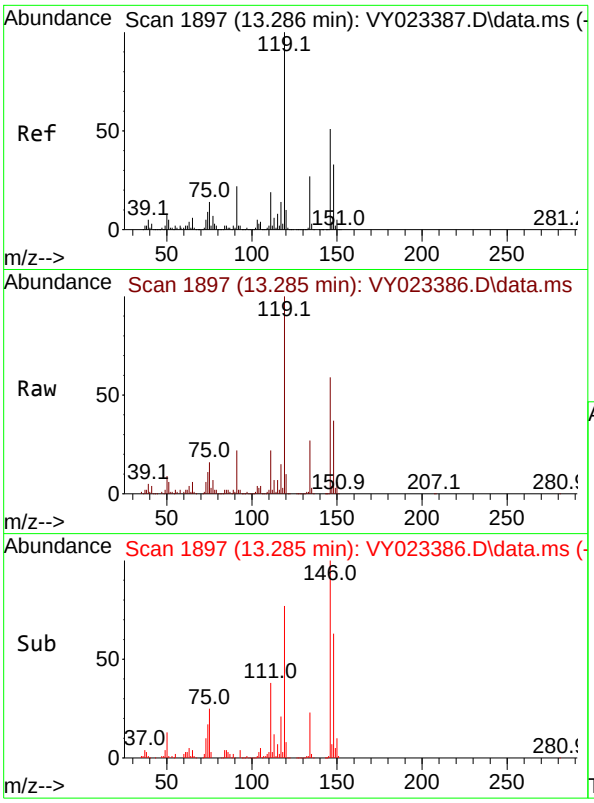



#86
p-Isopropyltoluene
Concen: 20.081 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:119 Resp: 464005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 27.2 | 13.6 | 40.7 |
| 91 | 21.6 | 10.9 | 32.9 |

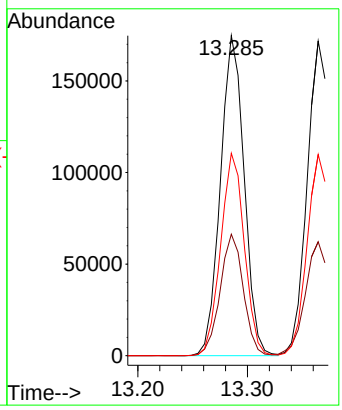





#87
1,3-Dichlorobenzene
Concen: 20.347 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:146 Resp: 26290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.2 | 18.7 | 56.1 |
| 148 | 63.1 | 31.9 | 95.9 |




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

**Manual Integrations**
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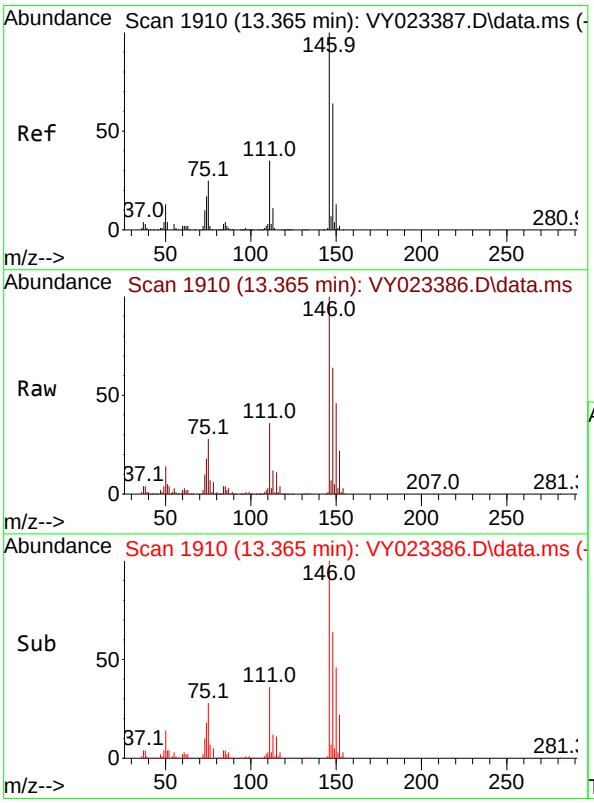
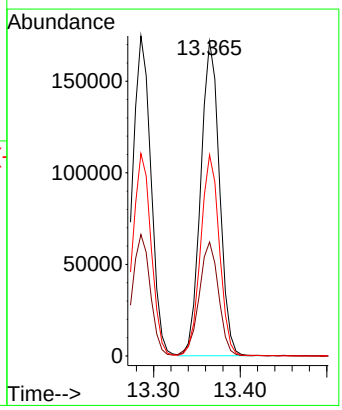
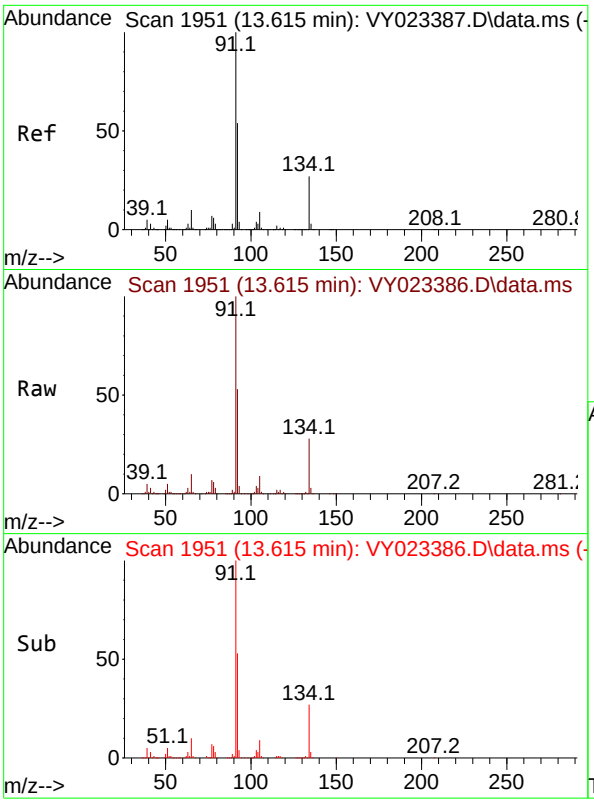



#88
1,4-Dichlorobenzene
Concen: 20.230 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:146 Resp: 259217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.3 | 18.0 | 54.0 |
| 148 | 63.6 | 31.9 | 95.7 |

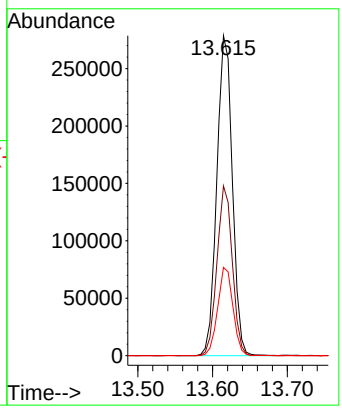





#89
n-Butylbenzene
Concen: 19.697 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 91 Resp: 40189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.6 | 27.0 | 80.8 |
| 134 | 27.3 | 14.1 | 42.2 |




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

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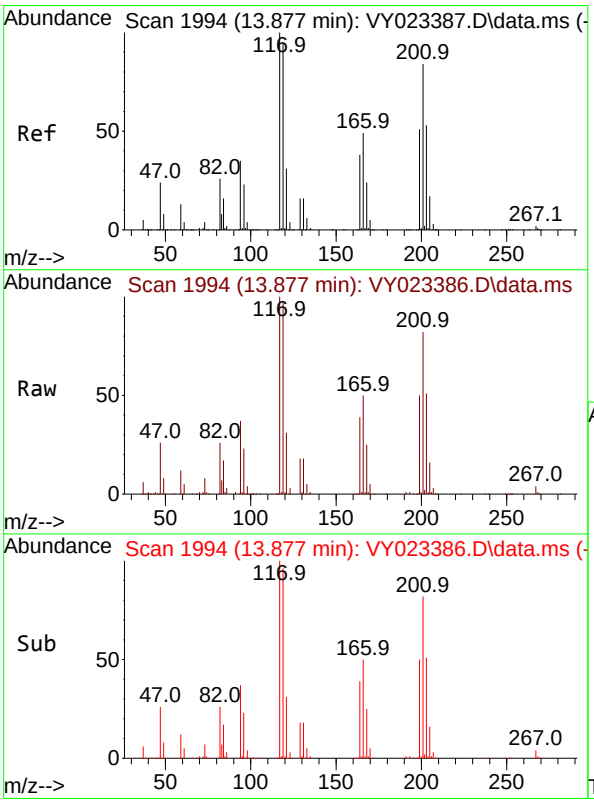
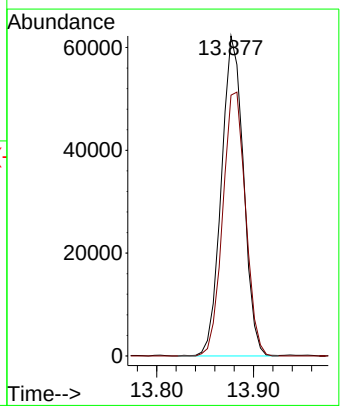
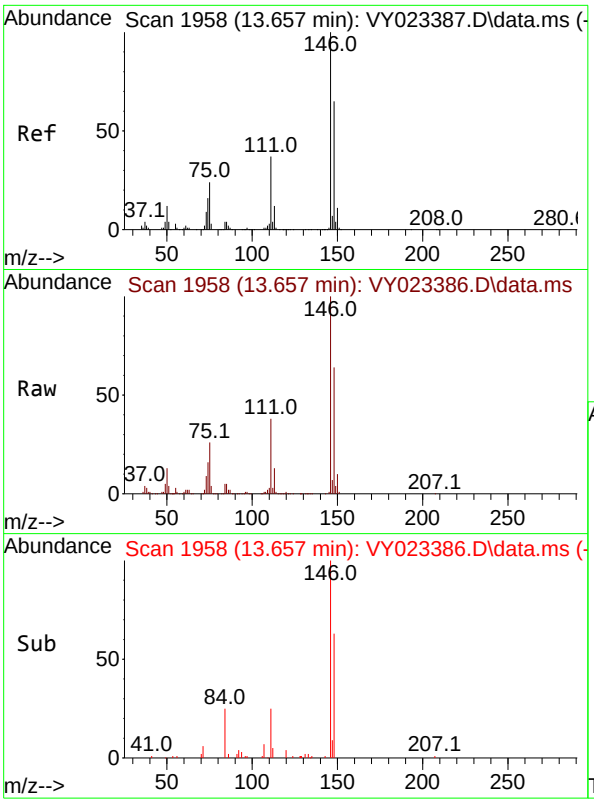



#90
Hexachloroethane
Concen: 19.730 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:117 Resp: 98983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 84.8 | 43.8 | 131.4 |

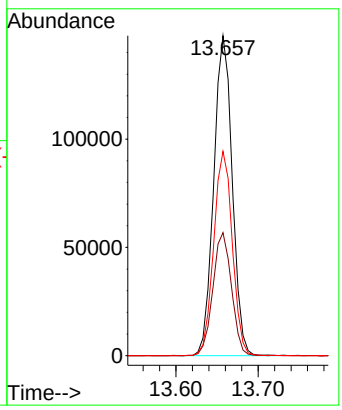





#91
1,2-Dichlorobenzene
Concen: 20.507 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:146 Resp: 23119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.6 | 19.0 | 57.0 |
| 148 | 64.1 | 32.1 | 96.3 |




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

**Manual Integrations**
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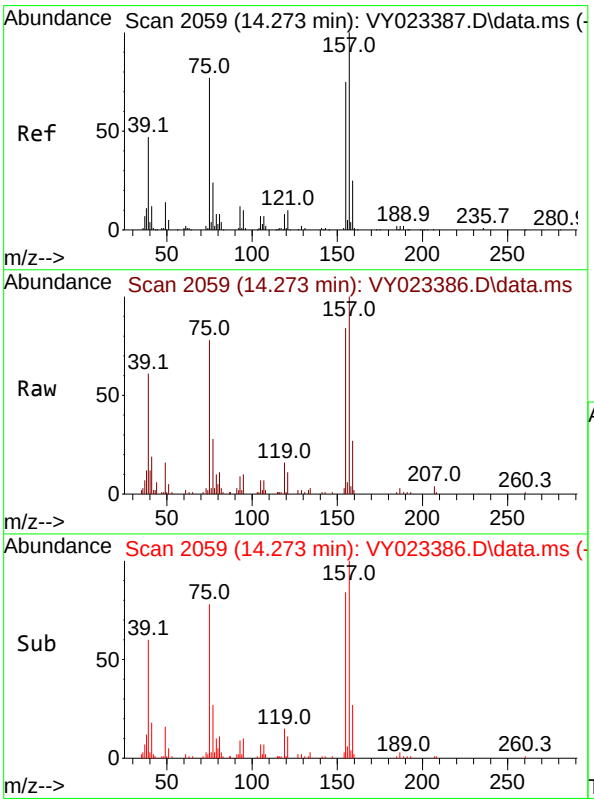
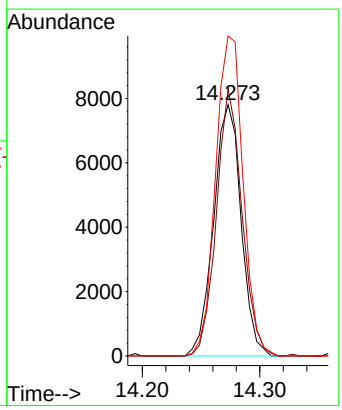
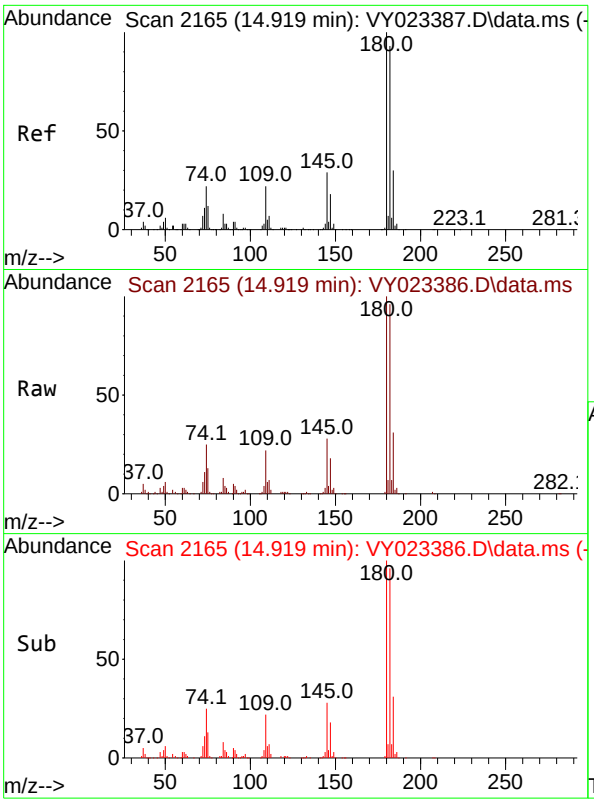



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.802 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 75 Resp: 12668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 99.1 | 50.0 | 150.0 |
| 157 | 127.9 | 63.8 | 191.5 |

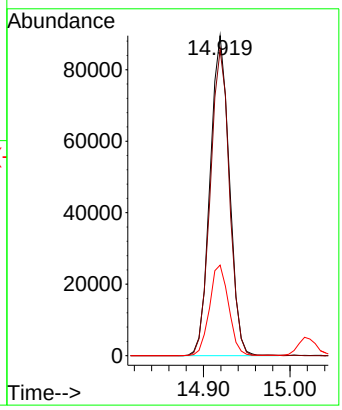





#93
1,2,4-Trichlorobenzene
Concen: 20.770 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:180 Resp: 13796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 47.9 | 143.6 |
| 145 | 28.3 | 14.7 | 44.1 |




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

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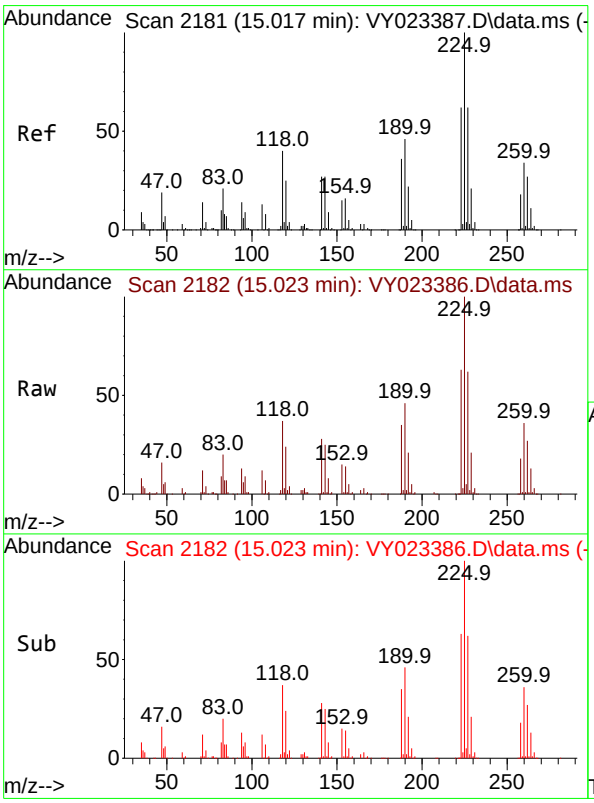
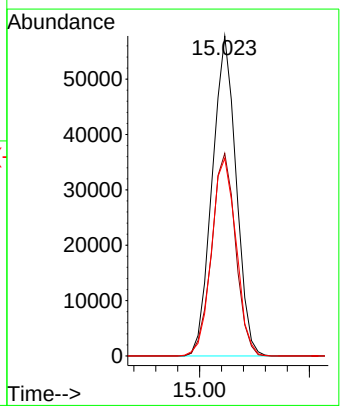
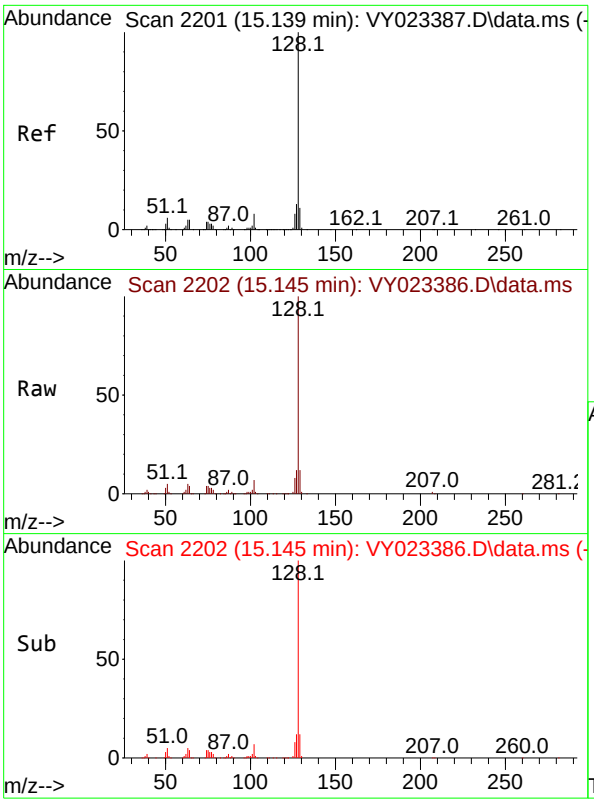



#94
Hexachlorobutadiene
Concen: 21.159 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:225 Resp: 87575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.1 | 30.8 | 92.3 |
| 227 | 63.4 | 31.9 | 95.7 |

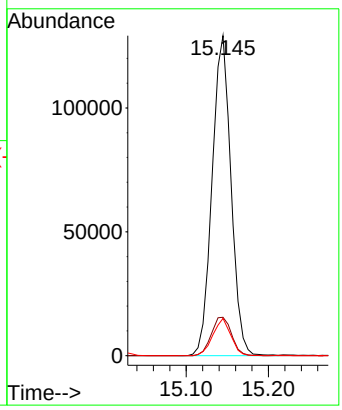





#95
Naphthalene
Concen: 19.467 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:128 Resp: 20601

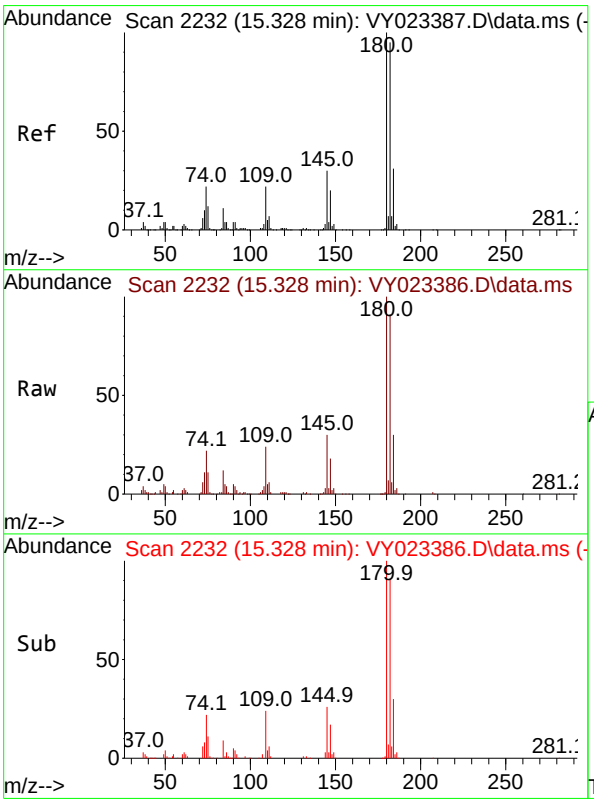
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.4 | 15.6 |
| 129 | 11.1 | 8.9 | 13.3 |




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

**Manual Integrations**
**APPROVED**

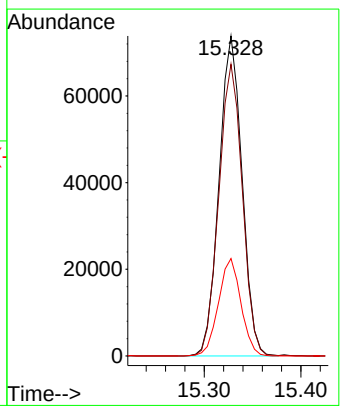
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025




#96
1,2,3-Trichlorobenzene
Concen: 21.113 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:180 Resp: 121656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.3 | 47.9 | 143.8 |
| 145 | 29.8 | 15.3 | 45.9 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023387.D
Acq On : 07 Oct 2025 11:47
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:43:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 590340 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 858767 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 749869 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 392169 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 231295 | 45.240 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 90.480% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 256331 | 49.185 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 98.360% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 969649 | 49.334 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 98.660% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 313426 | 50.546 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 101.100% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 189467 | 40.745 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 265142 | 40.113 | ug/l | 100 |
| 4) Vinyl Chloride | 2.202 | 62 | 352993 | 42.293 | ug/l | 100 |
| 5) Bromomethane | 2.592 | 94 | 277005 | 40.458 | ug/l | 100 |
| 6) Chloroethane | 2.733 | 64 | 244551 | 43.157 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.056 | 101 | 496981 | 46.354 | ug/l | 100 |
| 8) Diethyl Ether | 3.452 | 74 | 126634 | 45.158 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 258100 | 45.039 | ug/l | 100 |
| 10) Methyl Iodide | 4.001 | 142 | 317731 | 47.979 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.860 | 59 | 73642 | 244.793 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 252190 | 45.738 | ug/l | 100 |
| 13) Acrolein | 3.647 | 56 | 123642 | 242.575 | ug/l | 100 |
| 14) Allyl chloride | 4.379 | 41 | 310569 | 44.989 | ug/l | 100 |
| 15) Acrylonitrile | 5.055 | 53 | 240668 | 219.075 | ug/l | 100 |
| 16) Acetone | 3.866 | 43 | 247122 | 214.955 | ug/l | 100 |
| 17) Carbon Disulfide | 4.104 | 76 | 722982 | 42.028 | ug/l | 100 |
| 18) Methyl Acetate | 4.385 | 43 | 144816 | 49.563 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 601934 | 46.626 | ug/l | 100 |
| 20) Methylene Chloride | 4.616 | 84 | 270612 | 43.409 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 277516 | 45.256 | ug/l | 100 |
| 22) Diisopropyl ether | 6.019 | 45 | 686481 | 44.844 | ug/l | 100 |
| 23) Vinyl Acetate | 5.958 | 43 | 1843784 | 219.119 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 448267 | 44.423 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 310237 | 218.327 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 416391 | 46.440 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 320028 | 46.010 | ug/l | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 157414 | 40.211 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.262 | 42 | 187787 | 222.653 | ug/l | 100 |
| 30) Chloroform | 7.421 | 83 | 493098 | 45.316 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 379644 | 42.602 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 452713 | 46.347 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 341353 | 46.424 | ug/l | 100 |
| 37) Ethyl Acetate | 6.982 | 43 | 129053 | 44.394 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 413187 | 48.374 | ug/l | 100 |
| 39) Methylcyclohexane | 9.109 | 83 | 452959 | 48.113 | ug/l | 100 |
| 40) Benzene | 8.079 | 78 | 1080883 | 47.154 | ug/l | 100 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023387.D
Acq On : 07 Oct 2025 11:47
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 08 04:43:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 68542 | 45.399 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 270387 | 46.350 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 259041 | 45.811 | ug/l | | 100 |
| 44) Trichloroethene | 8.866 | 130 | 315104 | 48.982 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 234978 | 45.555 | ug/l | | 100 |
| 46) Dibromomethane | 9.231 | 93 | 148914 | 47.198 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.420 | 83 | 377084 | 47.482 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.219 | 41 | 126732 | 48.027 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.225 | 88 | 34053 | 1042.312 | ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 682879 | 235.772 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 710404 | 48.824 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 330392 | 48.438 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 390619 | 47.910 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 198478 | 47.296 | ug/l | | 100 |
| 56) Ethyl methacrylate | 10.438 | 69 | 239407 | 49.535 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 321276 | 47.301 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 553816 | 261.921 | ug/l | | 100 |
| 59) 2-Hexanone | 10.756 | 43 | 479606 | 239.162 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 281047 | 49.103 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 191356 | 48.468 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 392056 | 52.264 | ug/l | | 100 |
| 65) Chlorobenzene | 11.438 | 112 | 789650 | 48.460 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 279583 | 48.788 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.518 | 91 | 1332350 | 50.099 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 1077583 | 101.092 | ug/l | | 100 |
| 69) o-Xylene | 11.950 | 106 | 502722 | 50.946 | ug/l | | 100 |
| 70) Styrene | 11.969 | 104 | 831908 | 51.059 | ug/l | | 100 |
| 71) Bromoform | 12.127 | 173 | 172315 | 50.229 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.249 | 105 | 1301009 | 49.803 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 227684 | 46.640 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 195565 | 44.878 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 169814m | 43.898 | ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 331331 | 49.419 | ug/l | | 100 |
| 78) n-propylbenzene | 12.591 | 91 | 1522965 | 49.572 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 873335 | 49.235 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 1061112 | 49.966 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 66299 | 46.212 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 892764 | 48.192 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 988936 | 51.104 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 1061159 | 50.505 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 1405003 | 50.133 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.286 | 119 | 1210644 | 51.115 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 649899 | 49.072 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 636694 | 48.476 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.615 | 91 | 1051949 | 50.299 | ug/l | | 100 |
| 90) Hexachloroethane | 13.877 | 117 | 245108 | 47.664 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 567114 | 49.075 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 32585 | 47.184 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 359833 | 52.852 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 226316 | 53.346 | ug/l | | 100 |
| 95) Naphthalene | 15.139 | 128 | 575044 | 53.012 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 310831 | 52.628 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023387.D
Acq On : 07 Oct 2025 11:47
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:43:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 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

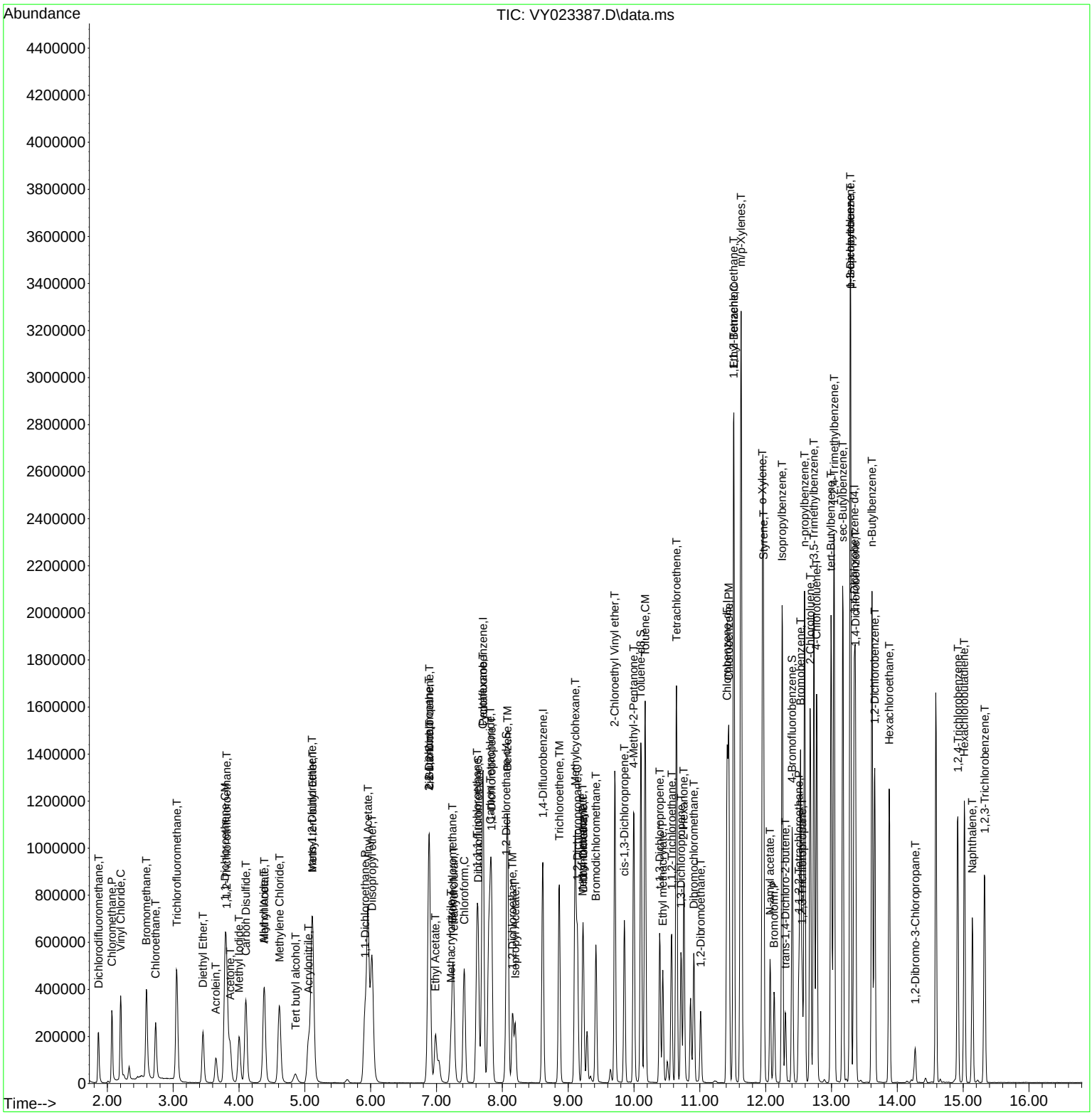
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023387.D
Acq On : 07 Oct 2025 11:47
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

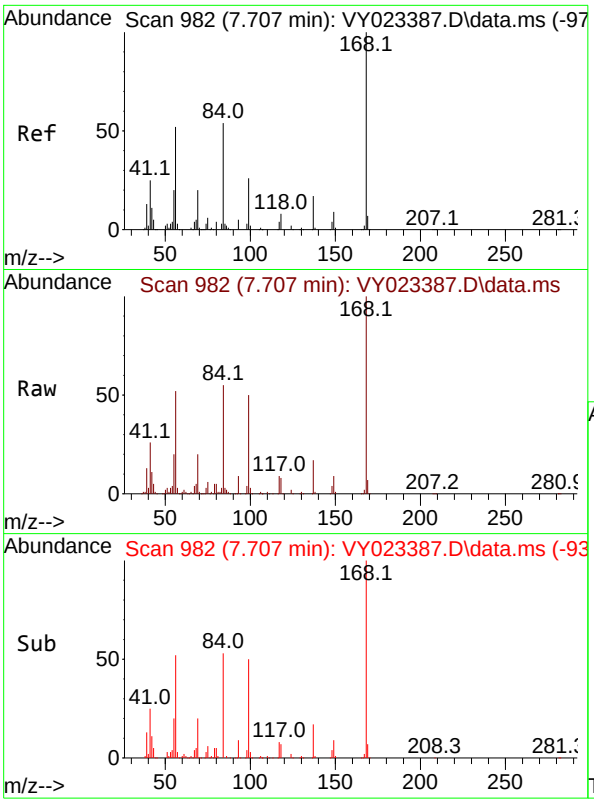
Quant Time: Oct 08 04:43:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

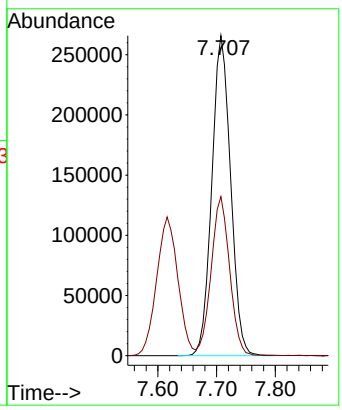





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:168 Resp: 59034

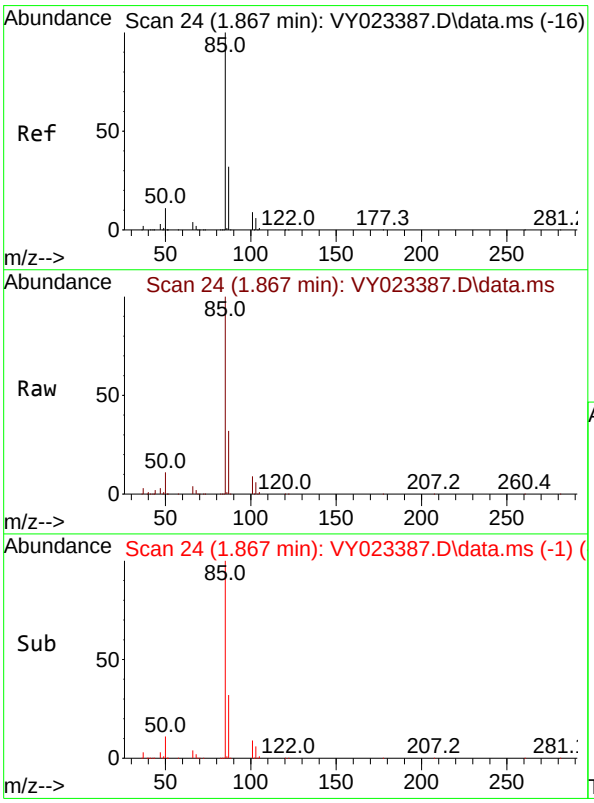
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 49.6 | 39.7 | 59.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

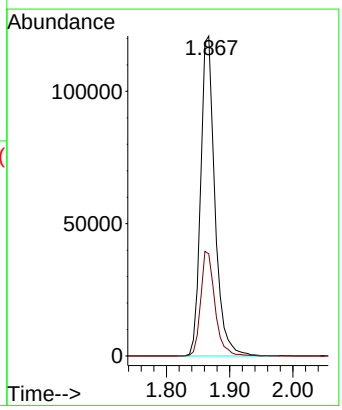
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

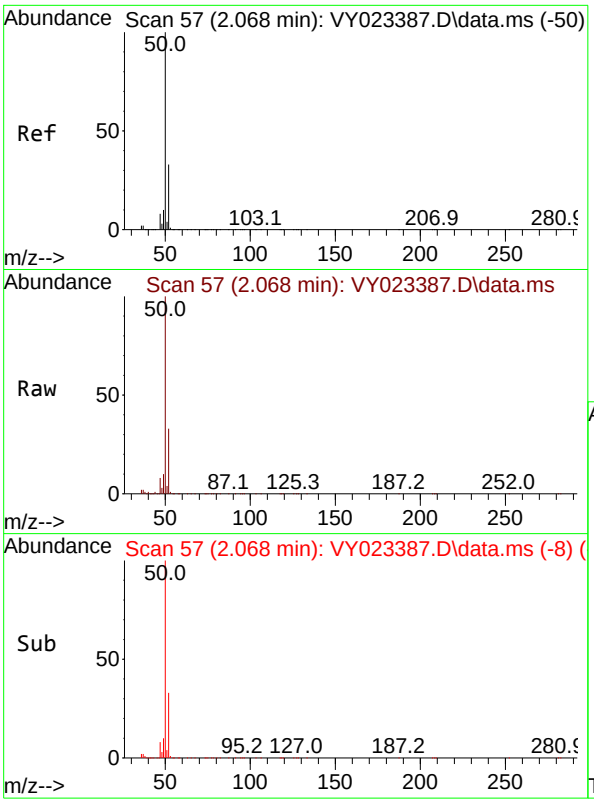



#2
Dichlorodifluoromethane
Concen: 40.745 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 85 Resp: 189467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.9 | 16.0 | 47.9 |

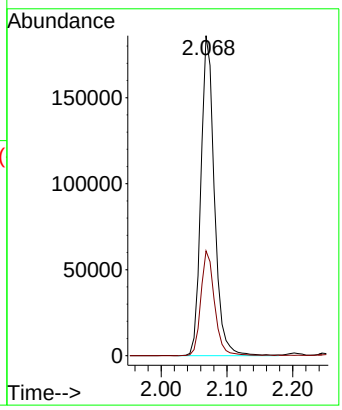





#3
Chloromethane
Concen: 40.113 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 50 Resp: 26514

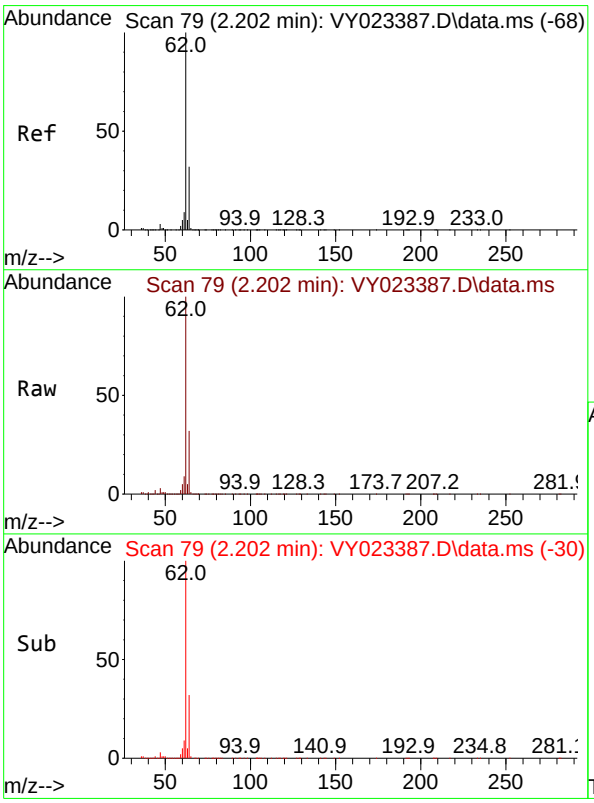
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.7 | 26.2 | 39.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

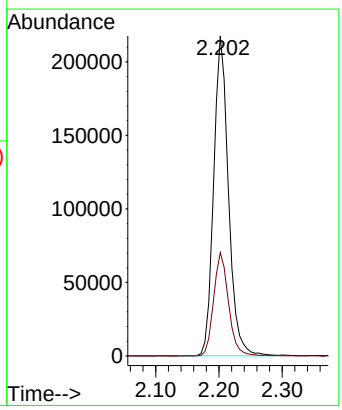
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

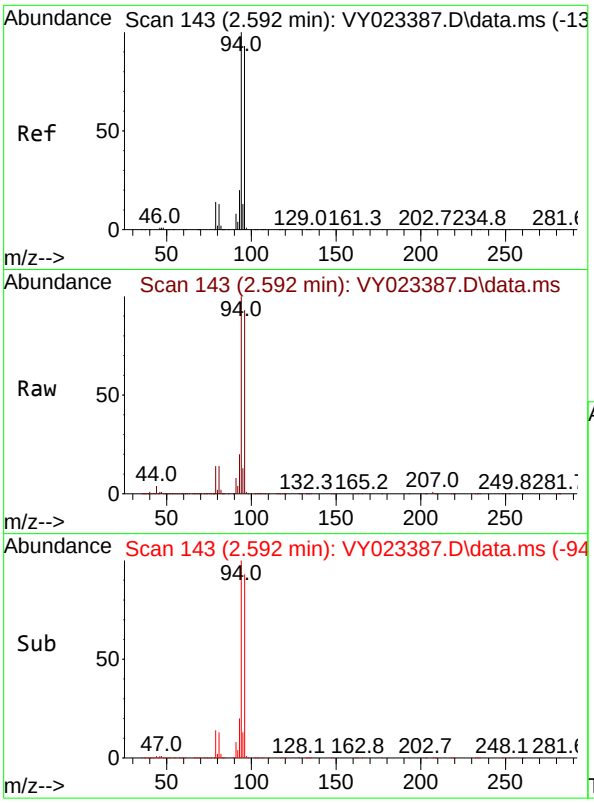



#4
Vinyl Chloride
Concen: 42.293 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 62 Resp: 352993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.3 | 25.8 | 38.8 |

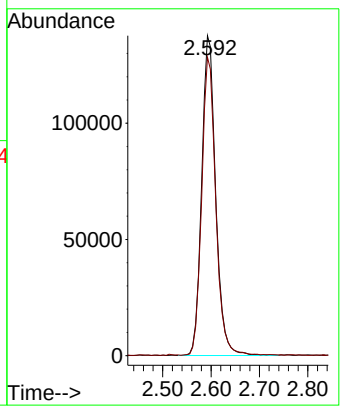





#5
Bromomethane
Concen: 40.458 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 94 Resp: 27700

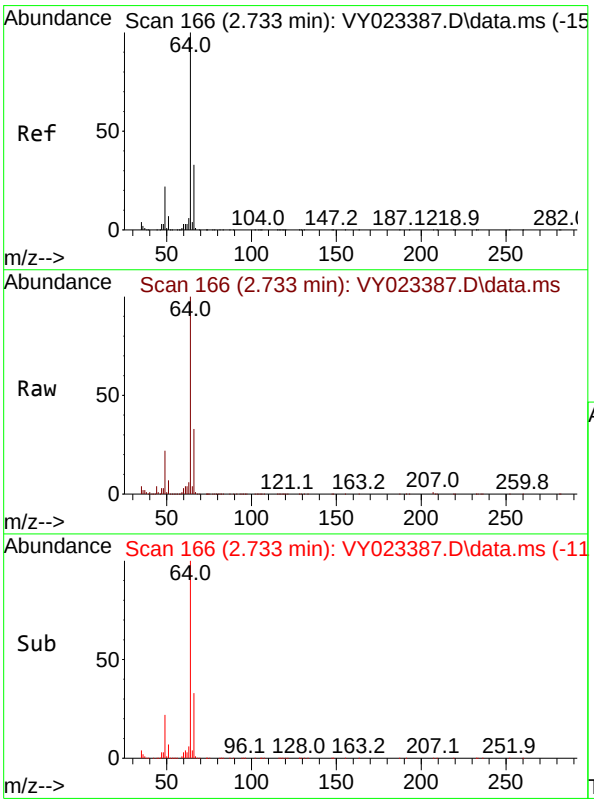
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.1 | 74.5 | 111.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

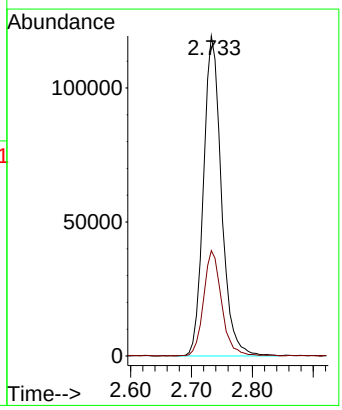
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

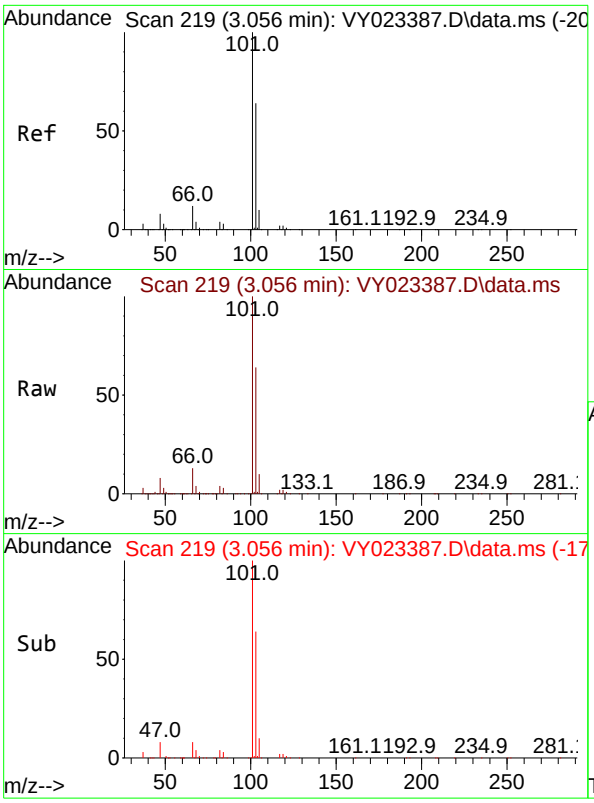



#6
Chloroethane
Concen: 43.157 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 64 Resp: 244551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.8 | 26.2 | 39.4 |

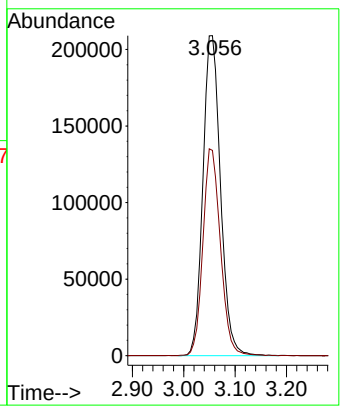





#7
Trichlorofluoromethane
Concen: 46.354 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:101 Resp: 49698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.1 | 51.3 | 76.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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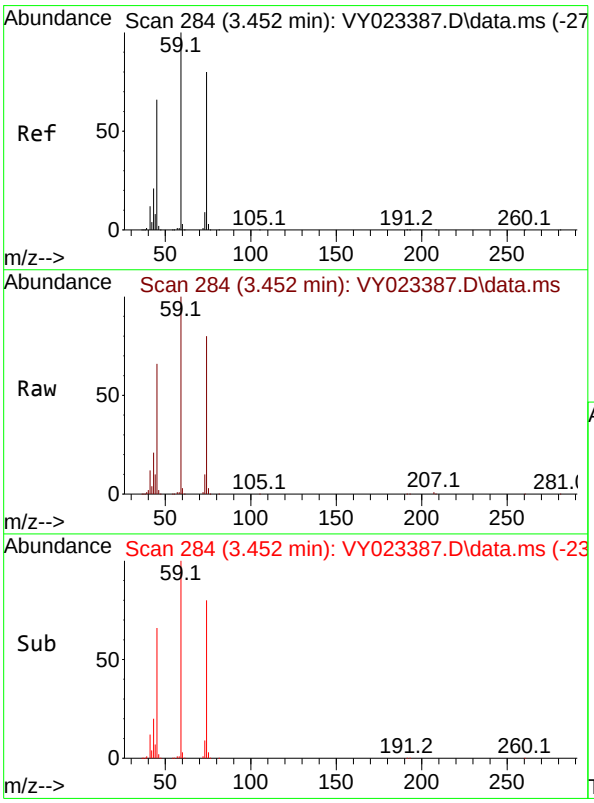
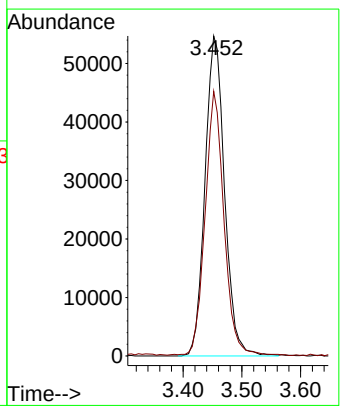
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

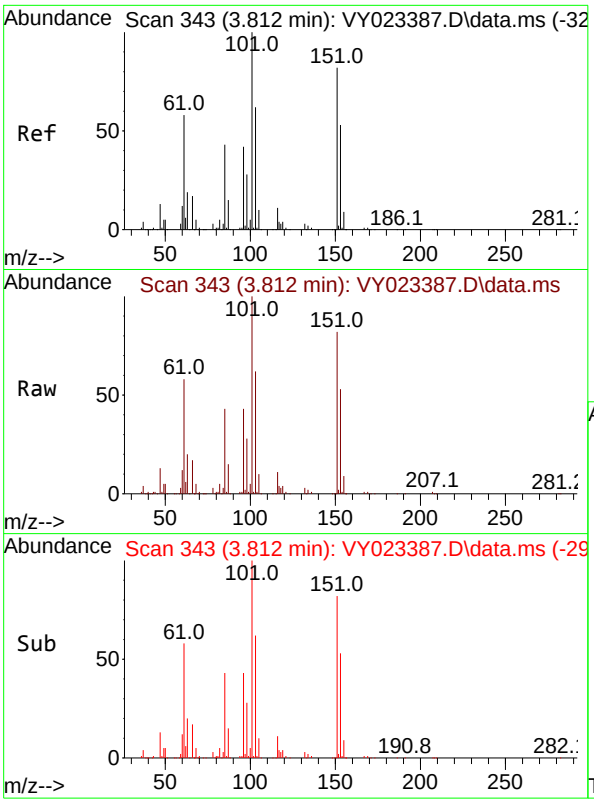



#8
Diethyl Ether
Concen: 45.158 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 74 Resp: 126634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 79.8 | 39.9 | 119.7 |

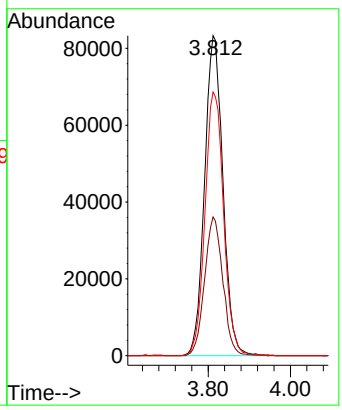





#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.039 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:101 Resp: 25810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.2 | 34.6 | 51.8 |
| 151 | 83.8 | 67.0 | 100.6 |




**Instrument :**
MSVOA_Y
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VSTDICCC050

**Manual Integrations**
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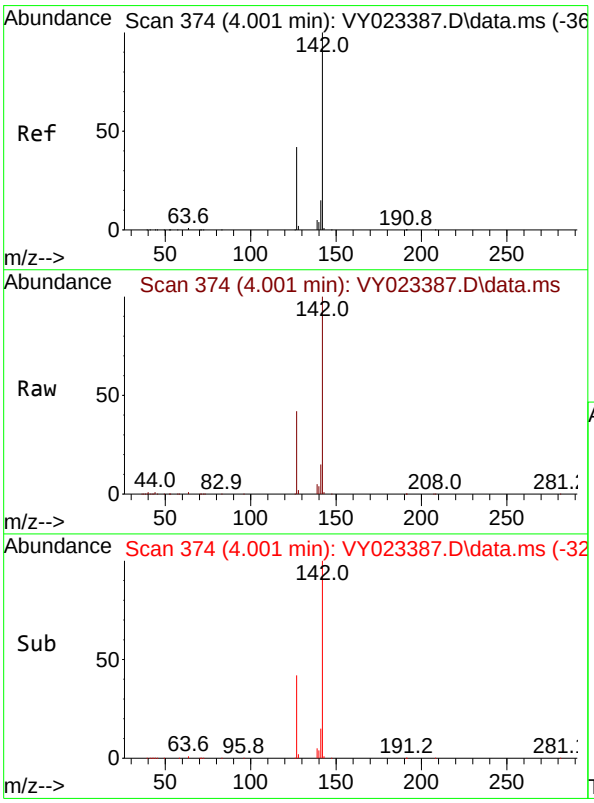
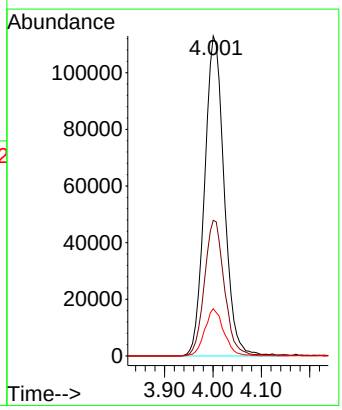
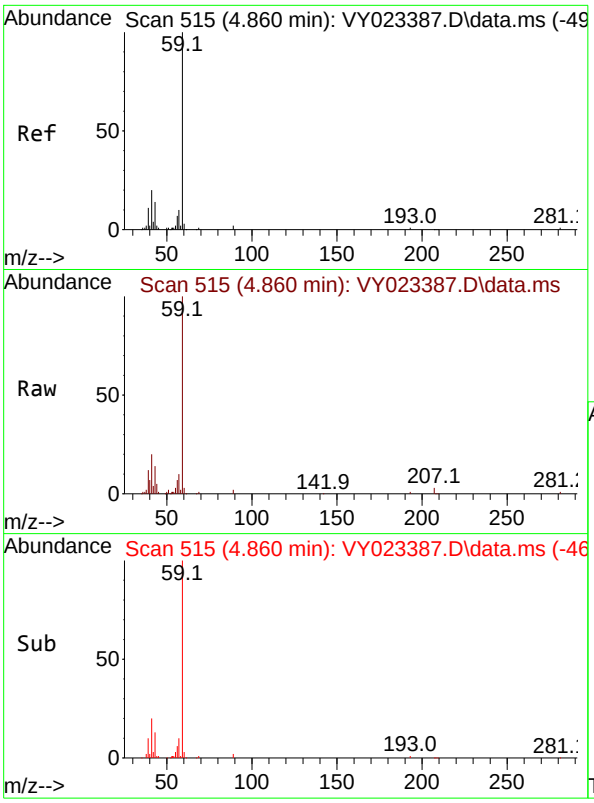



#10
Methyl Iodide
Concen: 47.979 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:142 Resp: 317731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.5 | 34.8 | 52.2 |
| 141 | 14.5 | 11.6 | 17.4 |

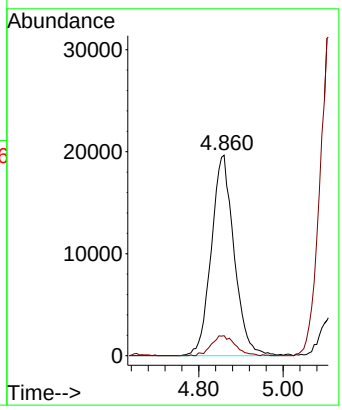





#11
Tert butyl alcohol
Concen: 244.793 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 59 Resp: 7364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.4 | 8.3 | 12.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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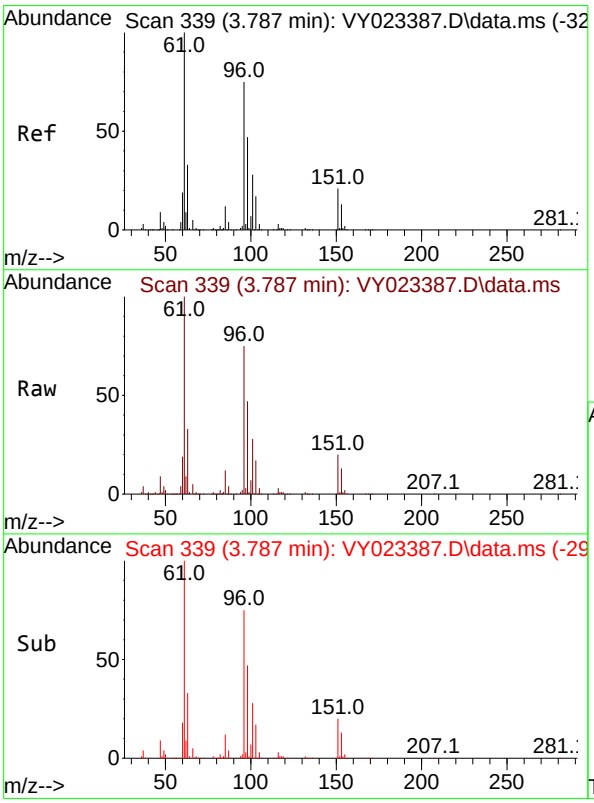
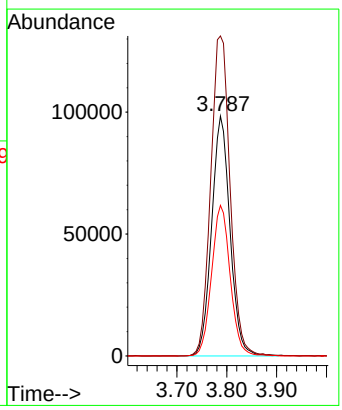
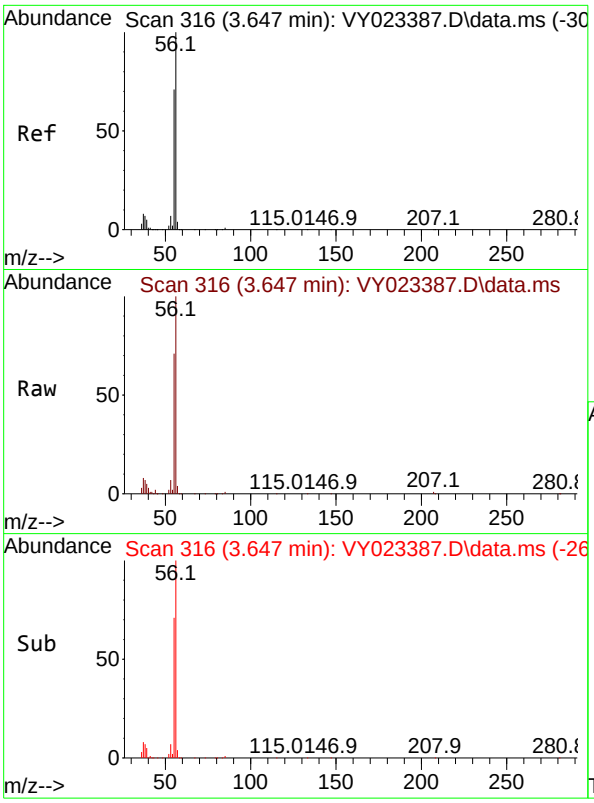



#12
1,1-Dichloroethene
Concen: 45.738 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 96 Resp: 252190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.4 | 106.7 | 160.1 |
| 98 | 62.8 | 50.2 | 75.4 |

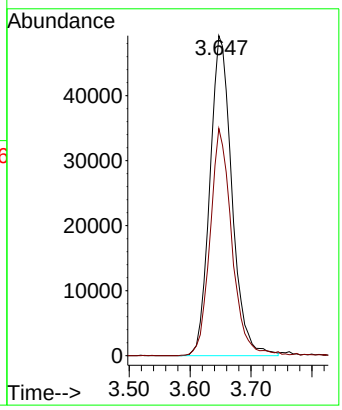





#13
Acrolein
Concen: 242.575 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 56 Resp: 12364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.1 | 56.1 | 84.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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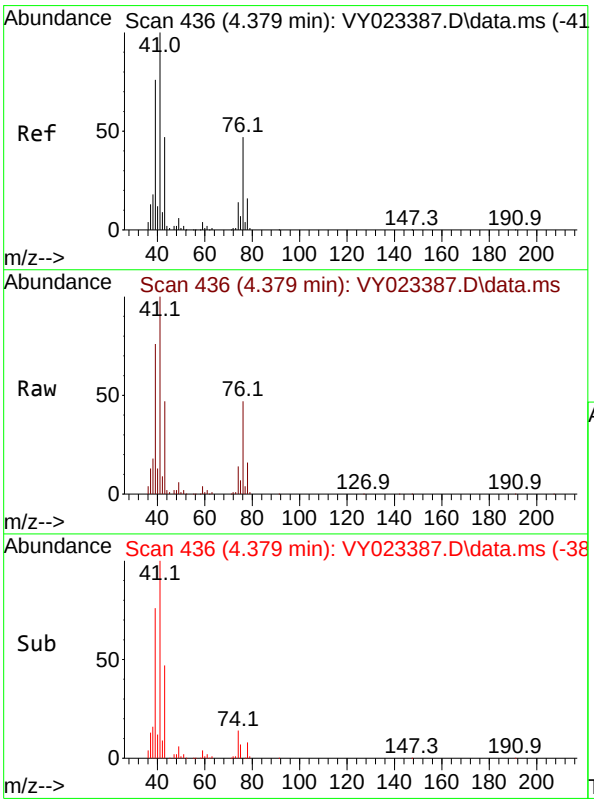
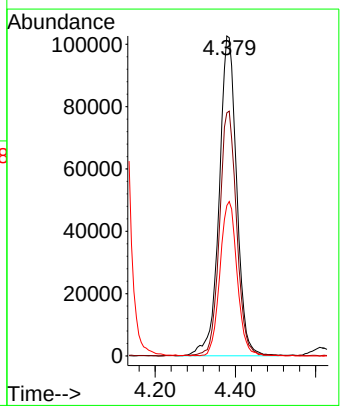
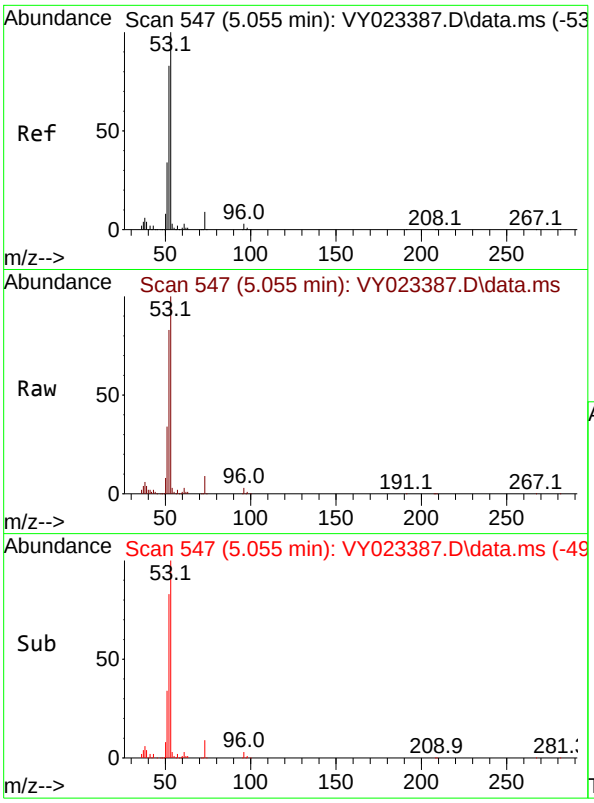



#14
Allyl chloride
Concen: 44.989 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 41 Resp: 310569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 74.9 | 59.9 | 89.9 |
| 76 | 47.5 | 38.0 | 57.0 |

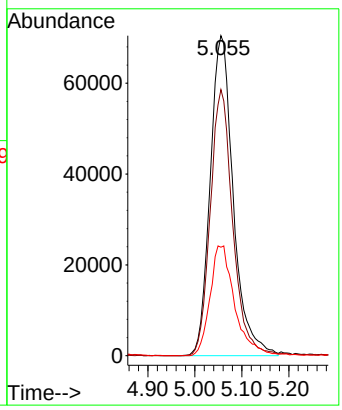





#15
Acrylonitrile
Concen: 219.075 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 53 Resp: 24066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.8 | 64.6 | 97.0 |
| 51 | 36.9 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
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VSTDICCC050

**Manual Integrations**
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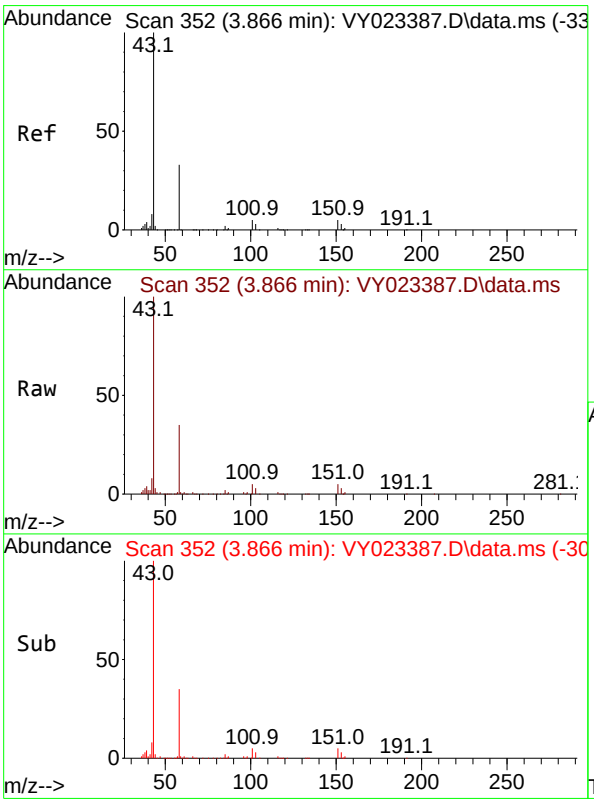
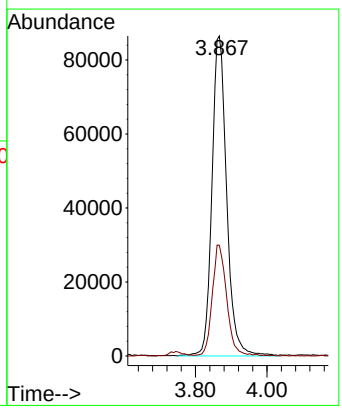
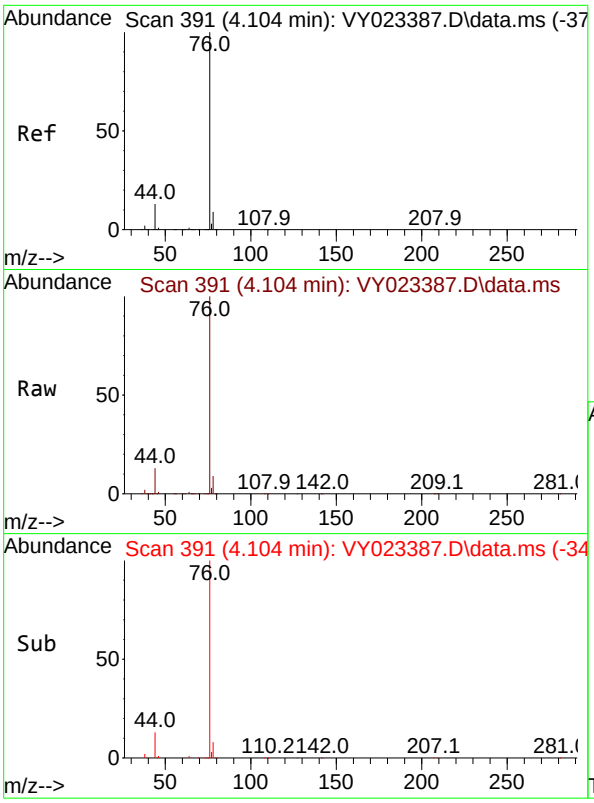



#16
Acetone
Concen: 214.955 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 247122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.6 | 27.7 | 41.5 |






#17
Carbon Disulfide
Concen: 42.028 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 76 Resp: 72298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.3 | 10.9 |

**Instrument :**
MSVOA_Y
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VSTDICCC050

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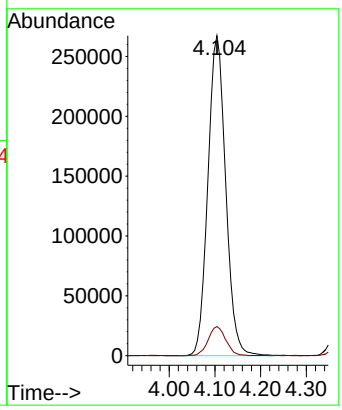
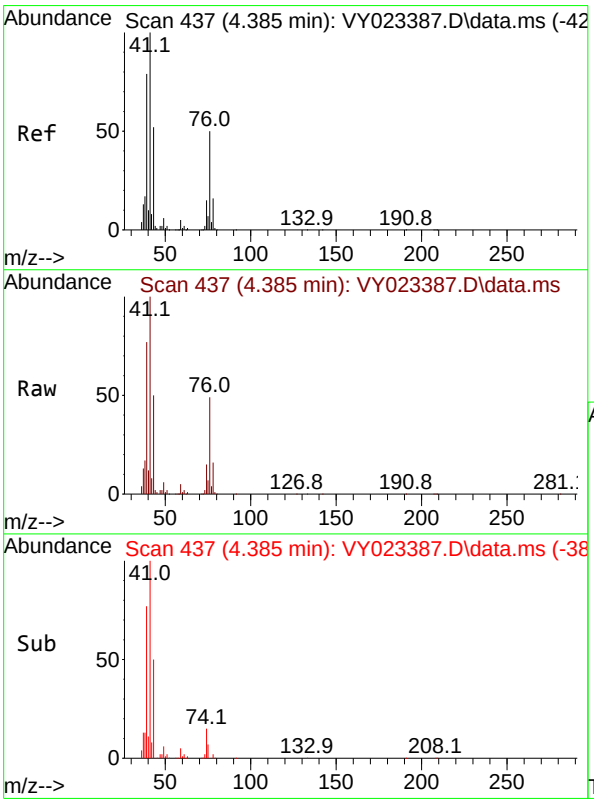
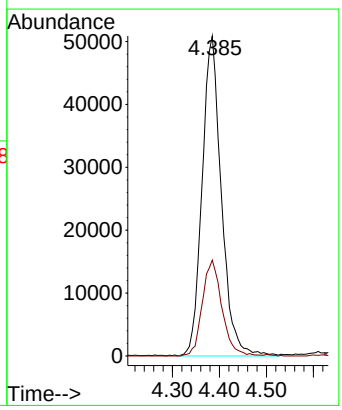


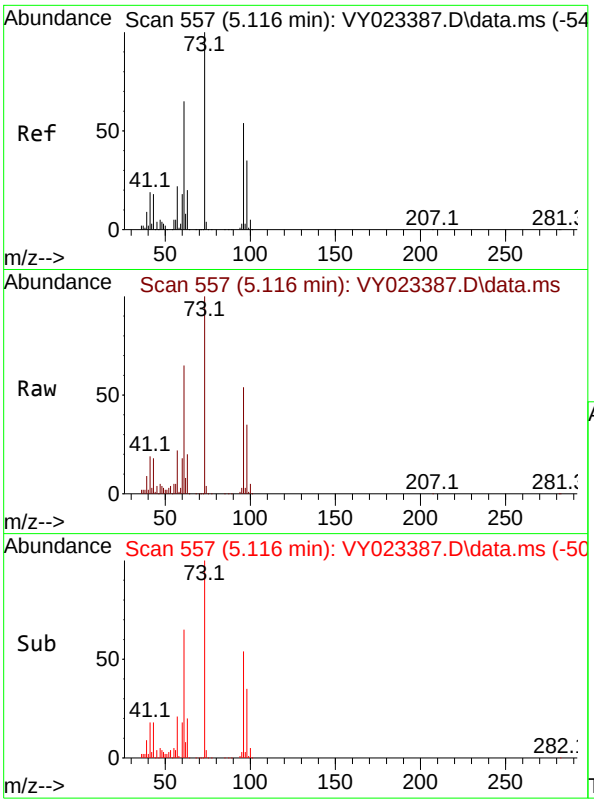




#18
Methyl Acetate
Concen: 49.563 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 144816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 30.3 | 24.2 | 36.4 |

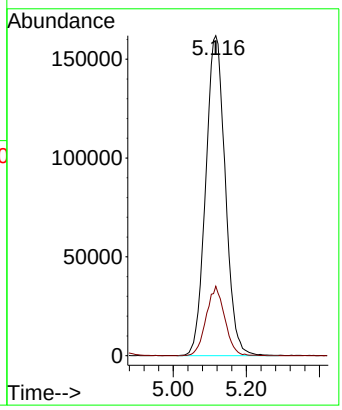





#19
Methyl tert-butyl Ether
Concen: 46.626 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 73 Resp: 60193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.7 | 17.4 | 26.0 |




**Instrument :**
MSVOA_Y
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VSTDICCC050

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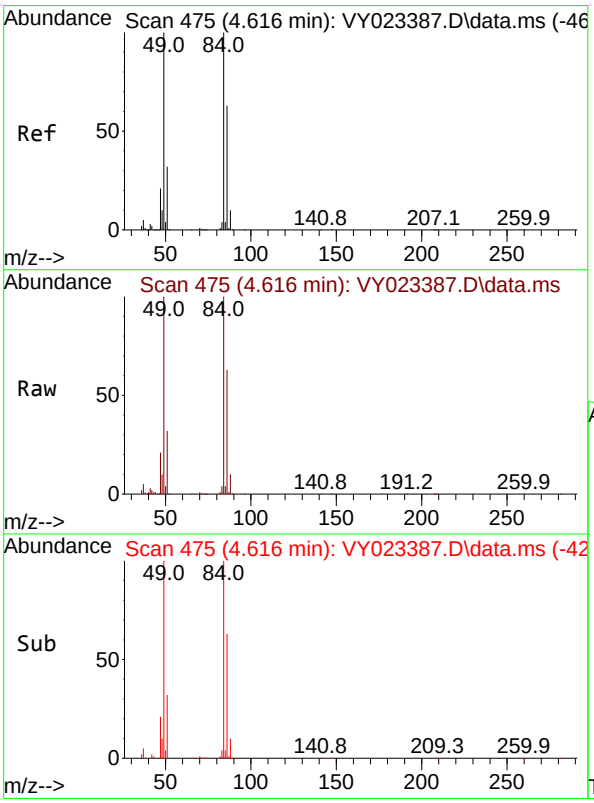
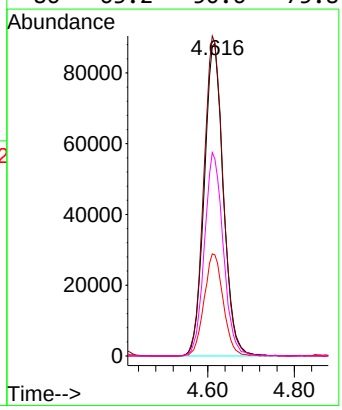
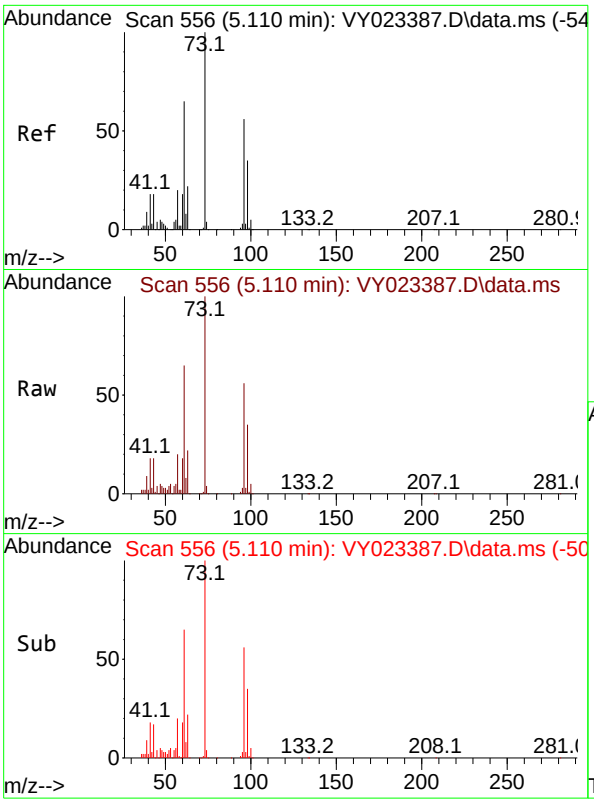



#20
Methylene Chloride
Concen: 43.409 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 84 Resp: 270612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 100.3 | 80.2 | 120.4 |
| 51 | 32.4 | 25.9 | 38.9 |
| 86 | 63.2 | 50.6 | 75.8 |

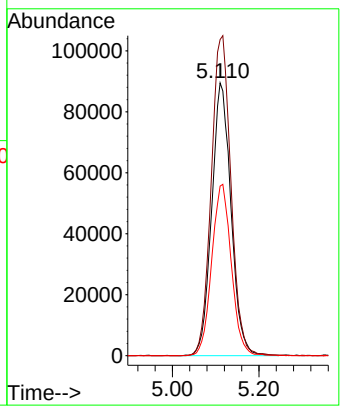





#21
trans-1,2-Dichloroethene
Concen: 45.256 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 96 Resp: 27751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 115.9 | 92.7 | 139.1 |
| 98 | 62.1 | 49.7 | 74.5 |




**Instrument :**
MSVOA_Y
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VSTDICCC050

**Manual Integrations**
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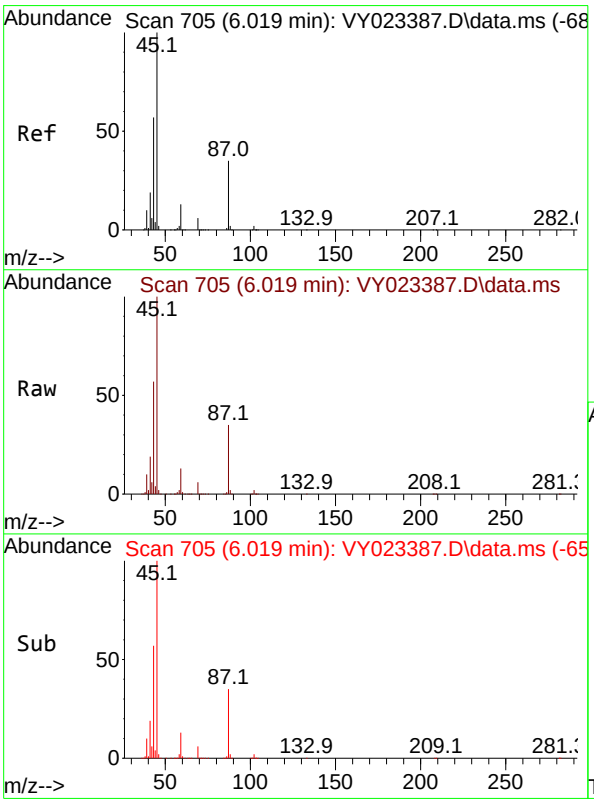
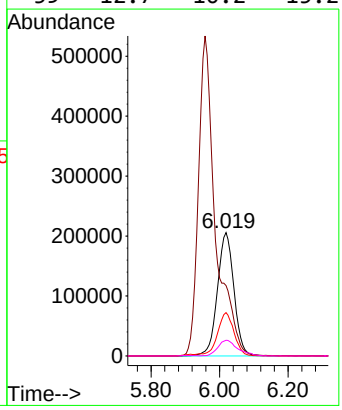
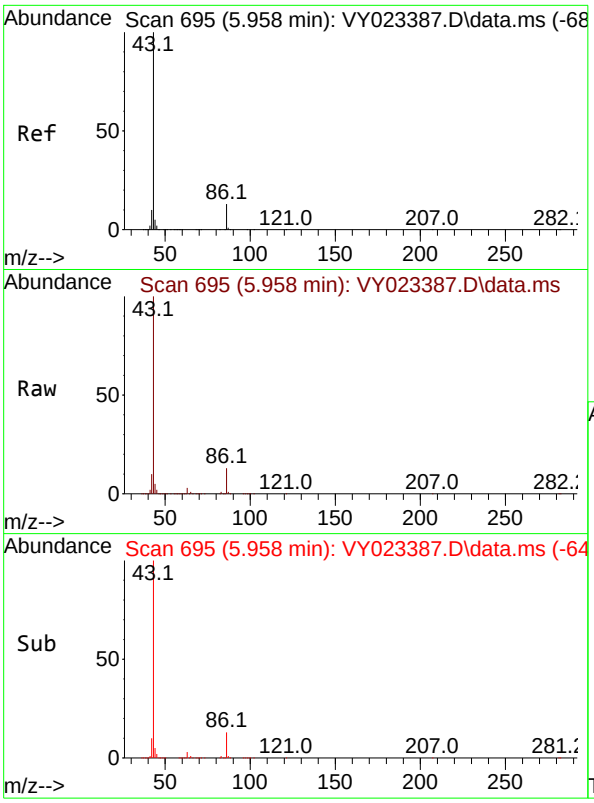



#22
Diisopropyl ether
Concen: 44.844 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 45 Resp: 686481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 57.0 | 45.6 | 68.4 |
| 87 | 35.1 | 28.1 | 42.1 |
| 59 | 12.7 | 10.2 | 15.2 |

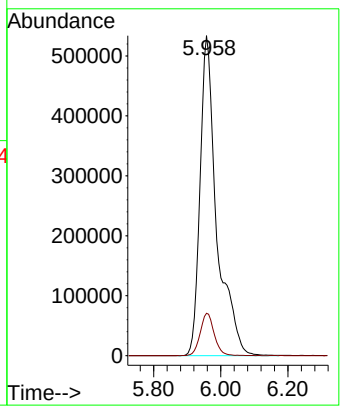





#23
Vinyl Acetate
Concen: 219.119 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 184378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 13.2 | 10.6 | 15.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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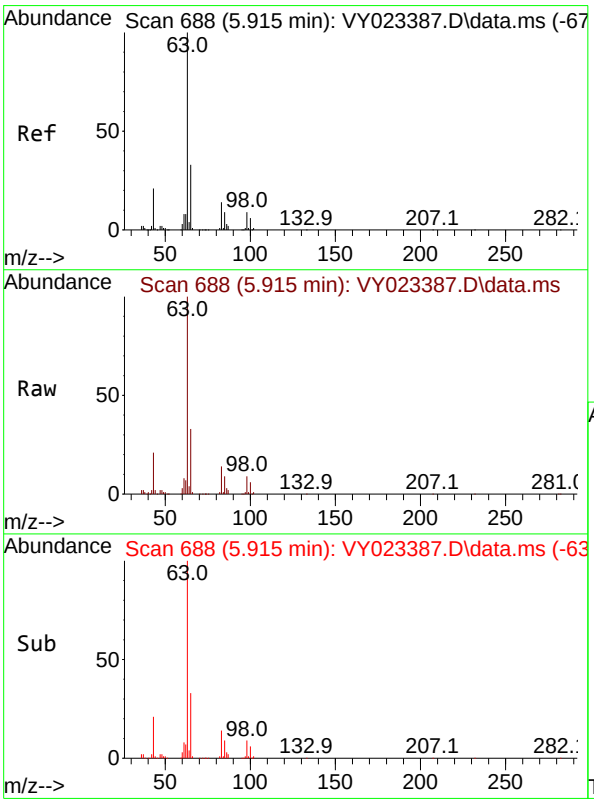
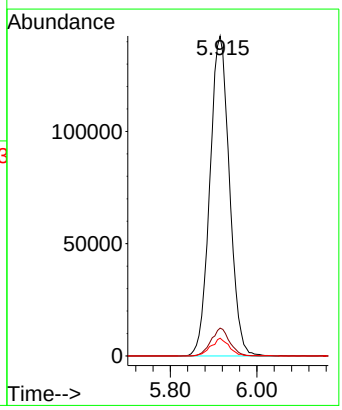
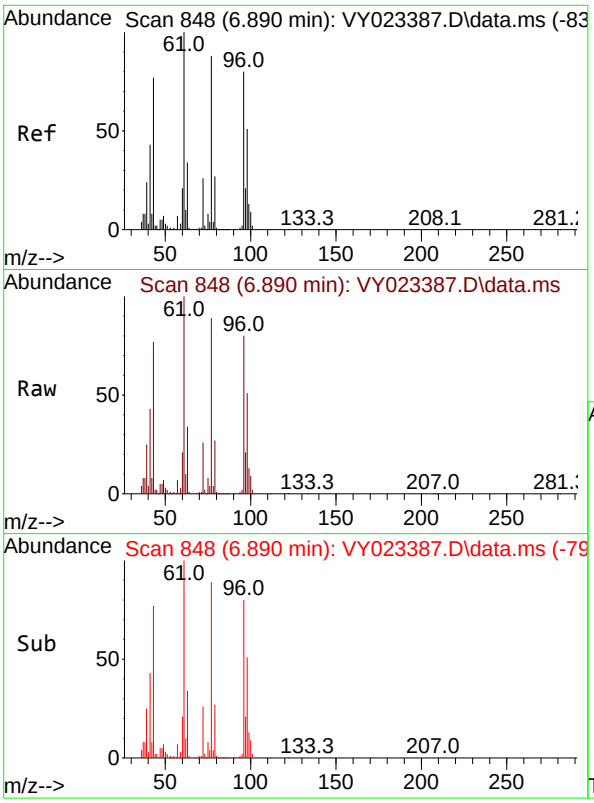



#24
1,1-Dichloroethane
Concen: 44.423 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 63 Resp: 448267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.7 | 4.3 | 13.1 |
| 100 | 5.6 | 2.8 | 8.4 |






#25
2-Butanone
Concen: 218.327 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

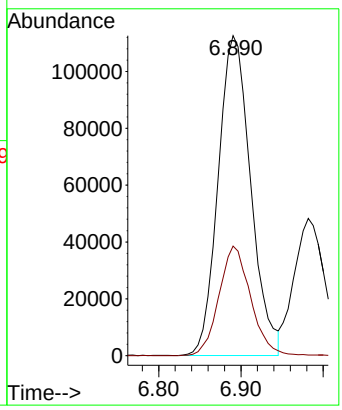
Tgt Ion: 43 Resp: 31023

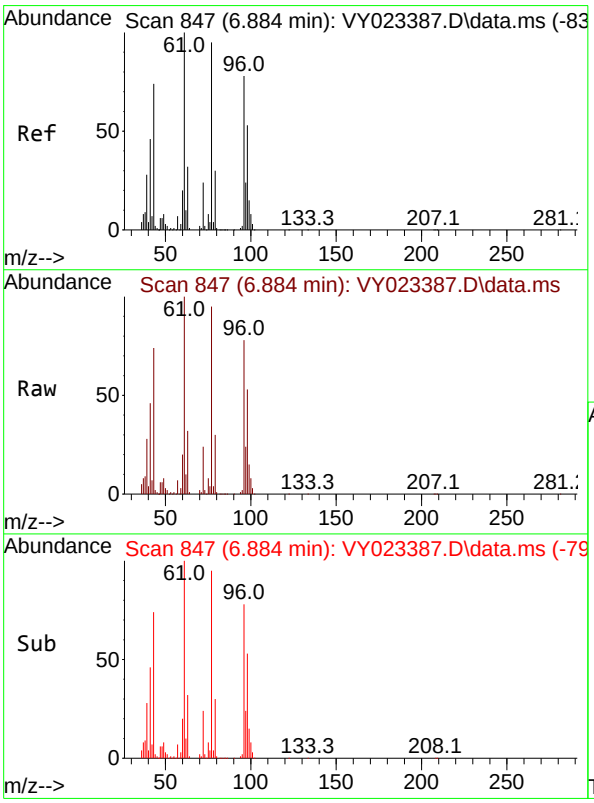
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 34.3 | 27.4 | 41.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

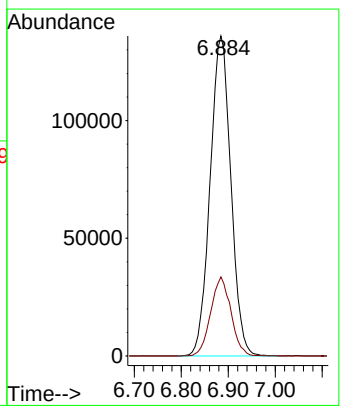


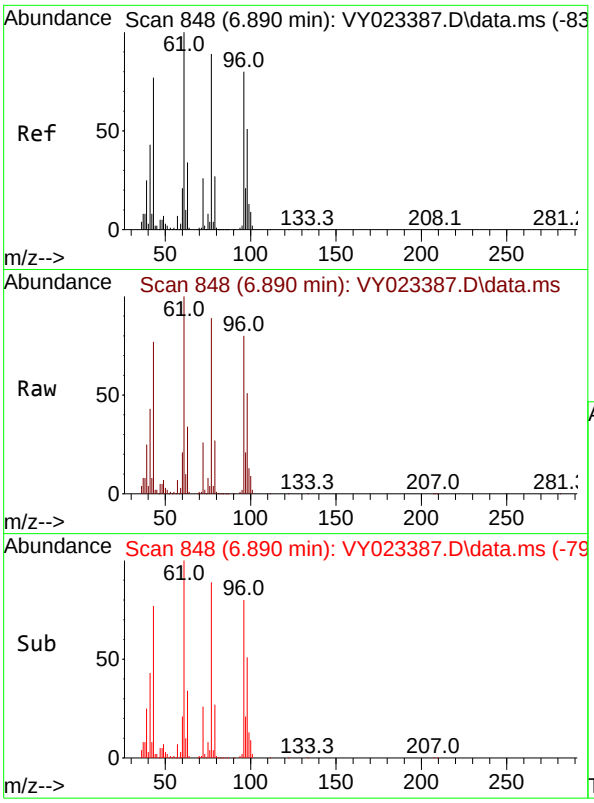




#26
2,2-Dichloropropane
Concen: 46.440 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 77 Resp: 416391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.2 | 12.1 | 36.3 |






#27
cis-1,2-Dichloroethene
Concen: 46.010 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 96 Resp: 32002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 129.1 | 0.0 | 258.2 |
| 98 | 66.0 | 0.0 | 132.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
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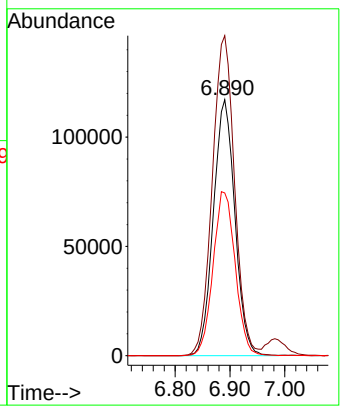
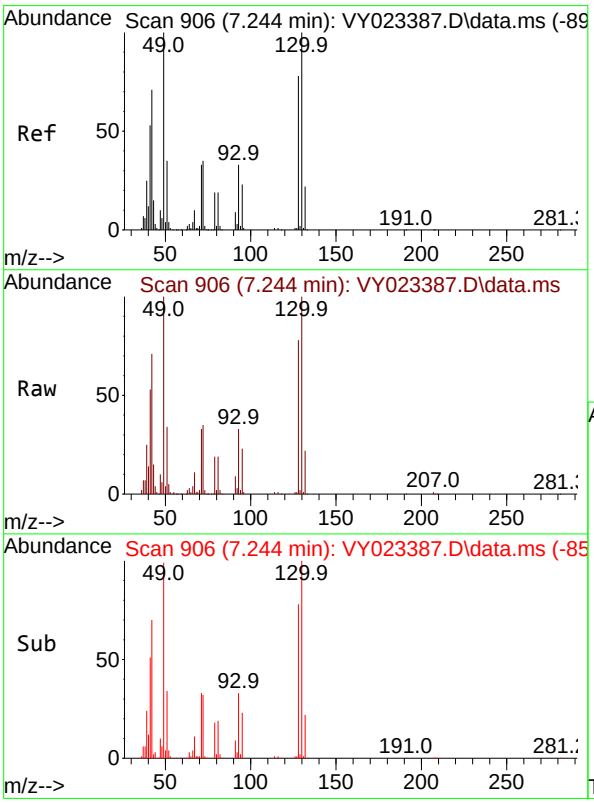
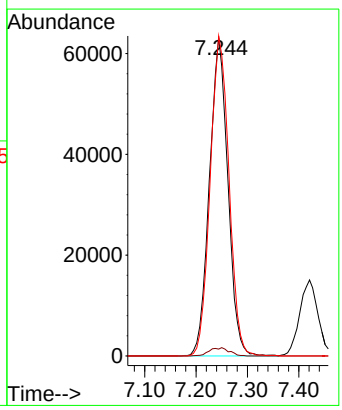


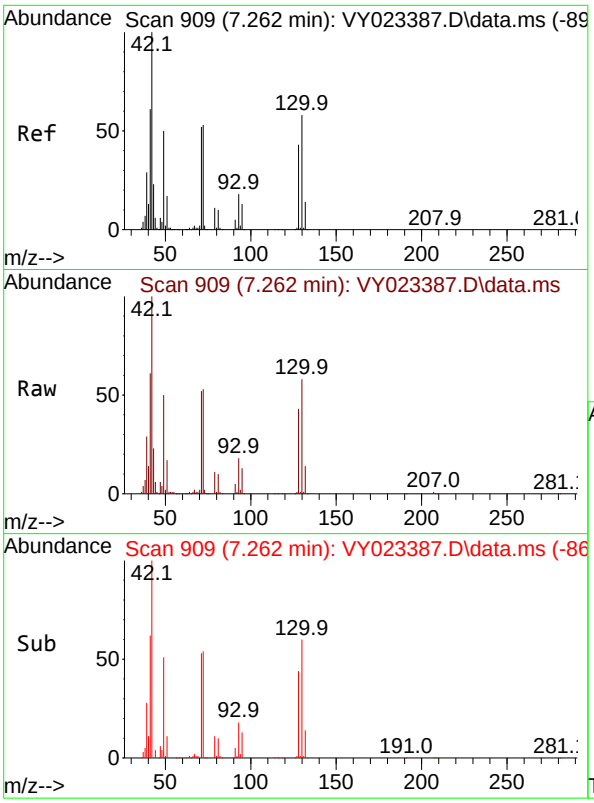




#28
Bromochloromethane
Concen: 40.211 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 49 Resp: 157414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.8 | 0.0 | 5.6 |
| 130 | 102.4 | 81.9 | 122.9 |

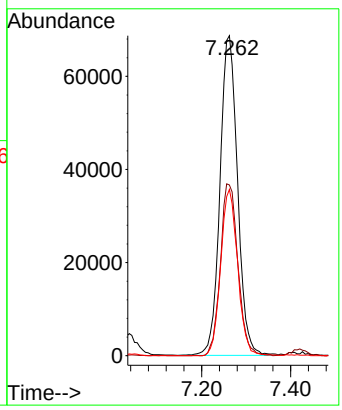





#29
Tetrahydrofuran
Concen: 222.653 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 42 Resp: 18778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 53.8 | 43.0 | 64.6 |
| 71 | 50.1 | 40.1 | 60.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 10/10/2025
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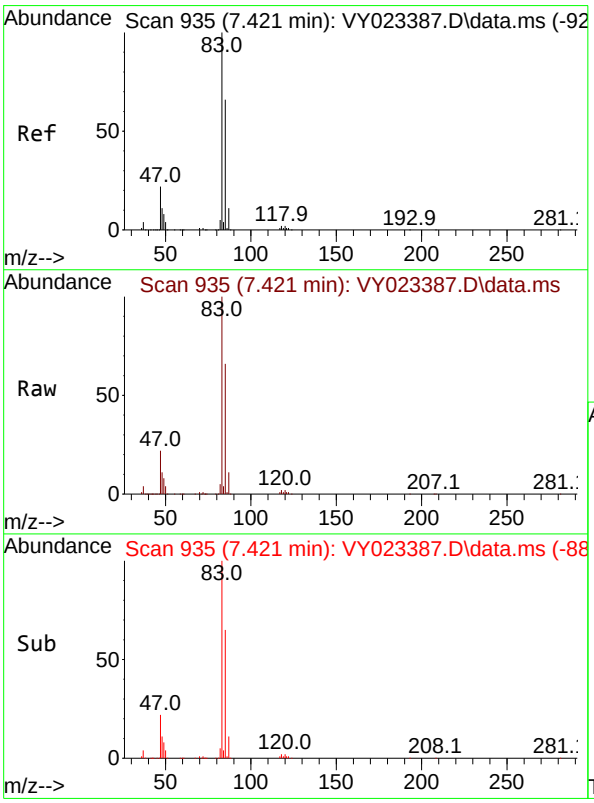
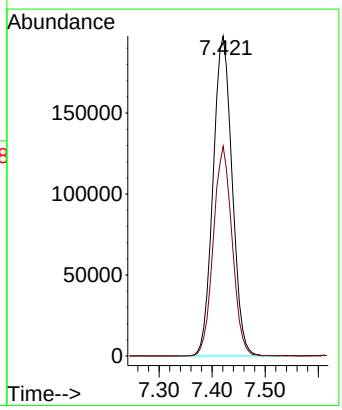
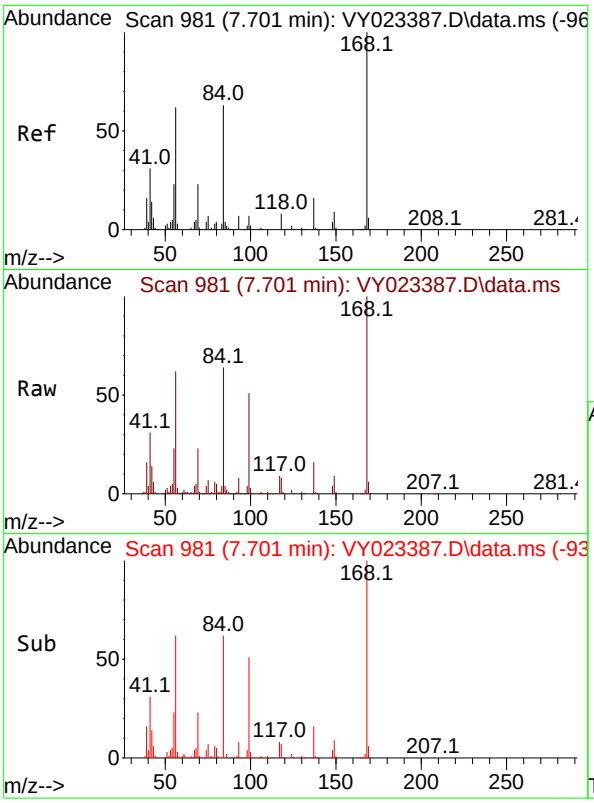



#30
Chloroform
Concen: 45.316 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 83 Resp: 493098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.6 | 52.5 | 78.7 |






#31
Cyclohexane
Concen: 42.602 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 56 Resp: 37964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 37.5 | 30.0 | 45.0 |
| 84 | 101.5 | 81.2 | 121.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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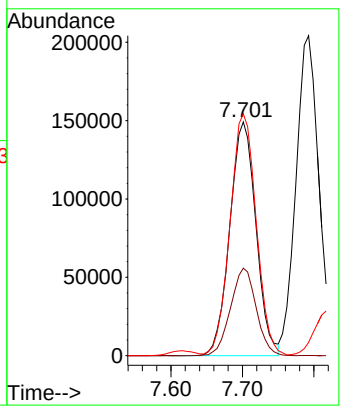
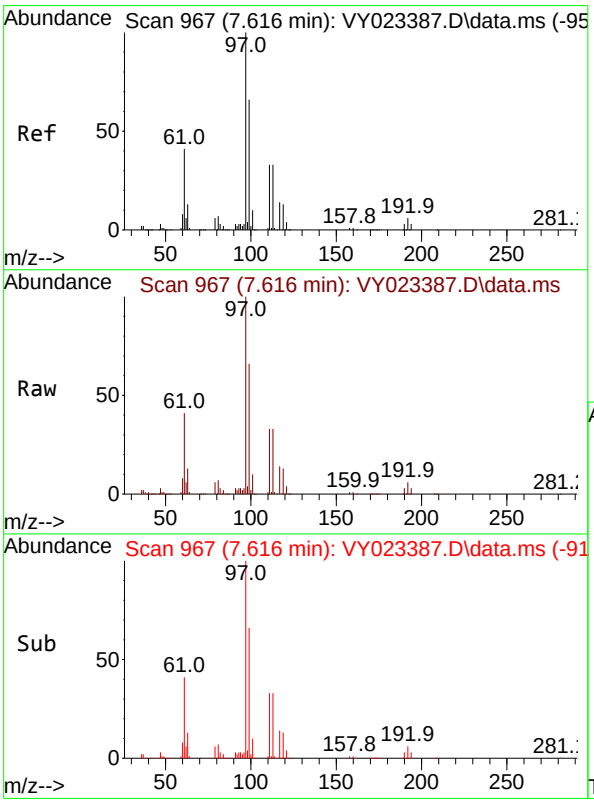
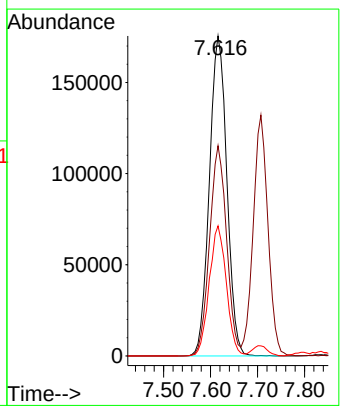


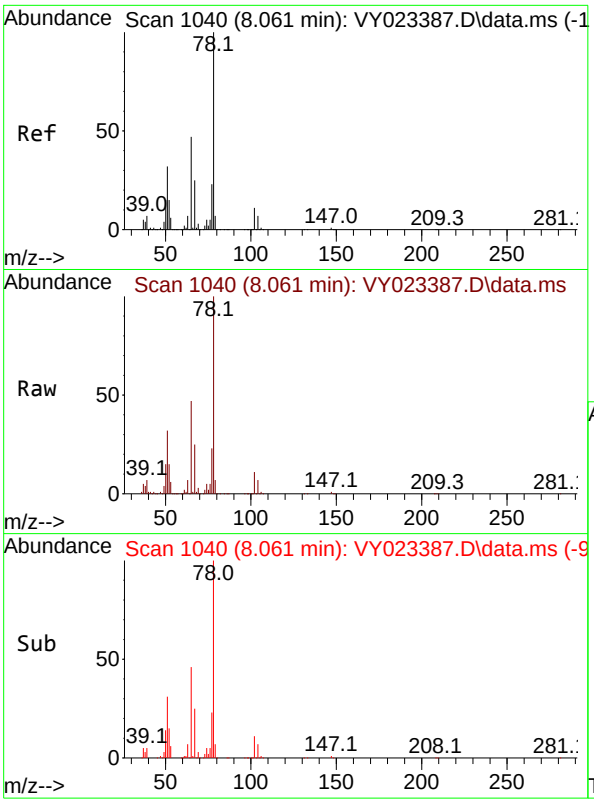




#32
1,1,1-Trichloroethane
Concen: 46.347 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 97 Resp: 452713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.3 | 51.4 | 77.2 |
| 61 | 39.9 | 31.9 | 47.9 |

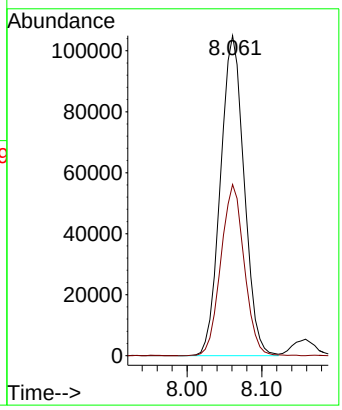





#33
1,2-Dichloroethane-d4
Concen: 45.240 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 65 Resp: 23129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.9 | 0.0 | 105.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
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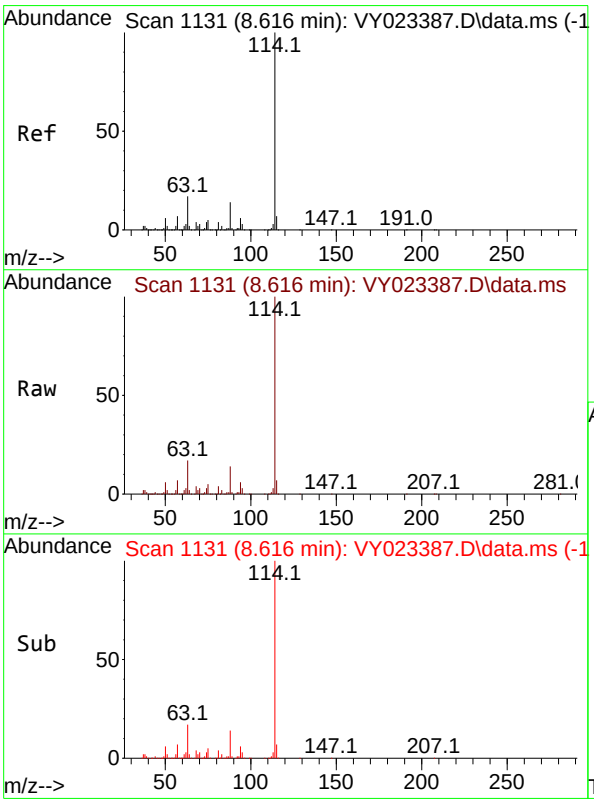
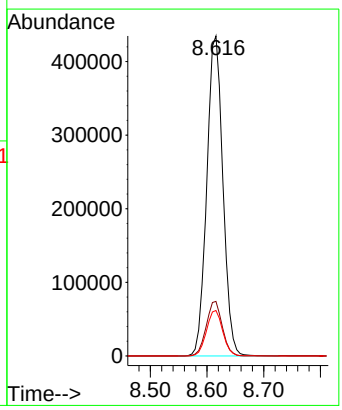
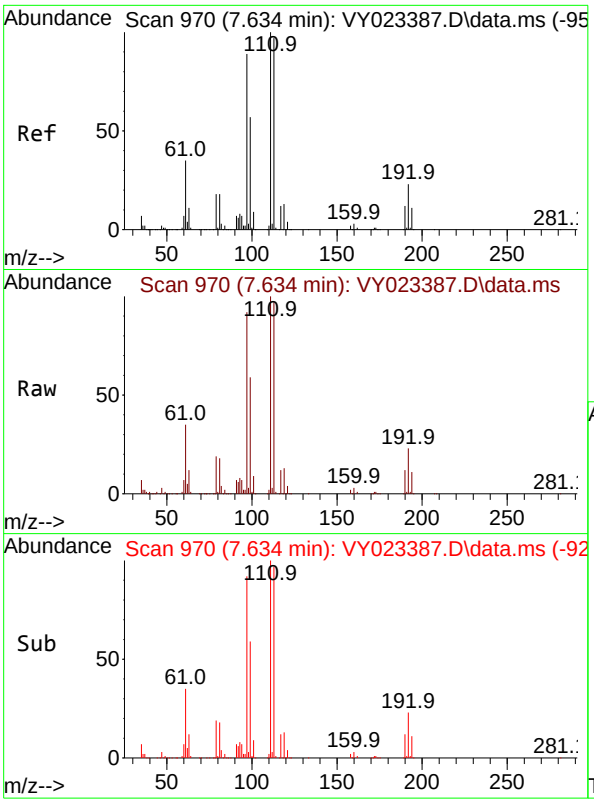



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:114 Resp: 858767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.1 | 0.0 | 34.2 |
| 88 | 14.2 | 0.0 | 28.4 |

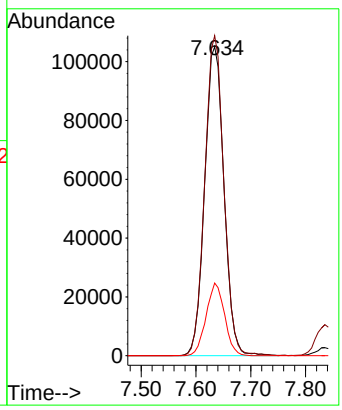





#35
Dibromofluoromethane
Concen: 49.185 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:113 Resp: 25633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.2 | 81.8 | 122.6 |
| 192 | 22.5 | 18.0 | 27.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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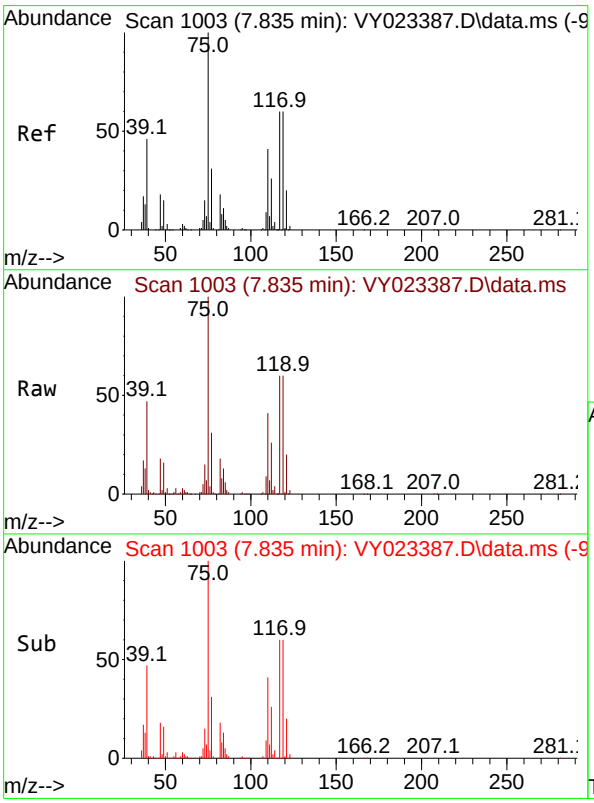
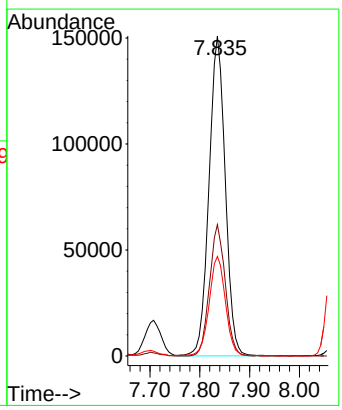
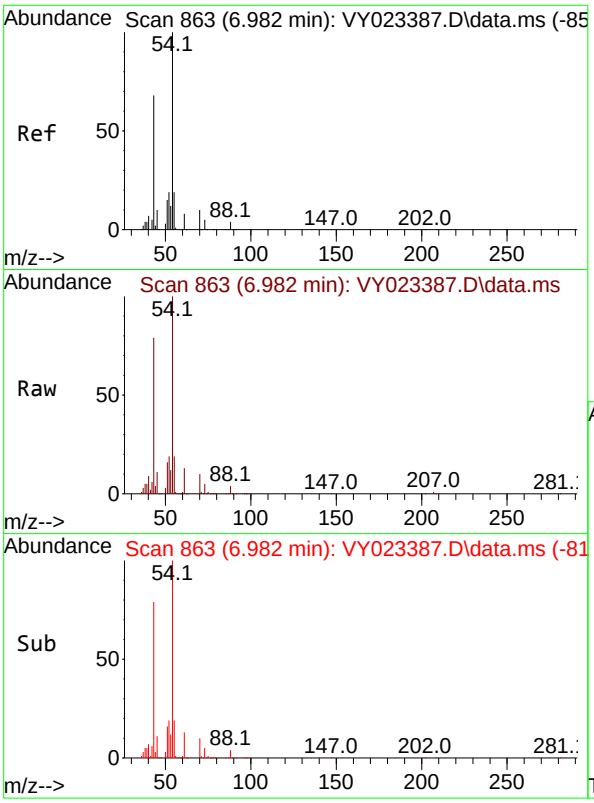



#36
1,1-Dichloropropene
Concen: 46.424 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 75 Resp: 341353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 39.8 | 19.9 | 59.7 |
| 77 | 31.3 | 25.0 | 37.6 |

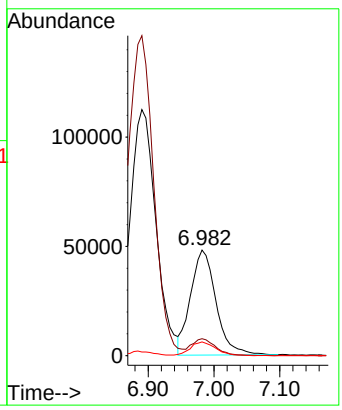





#37
Ethyl Acetate
Concen: 44.394 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 12905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.8 | 11.8 | 17.8 |
| 70 | 13.1 | 10.5 | 15.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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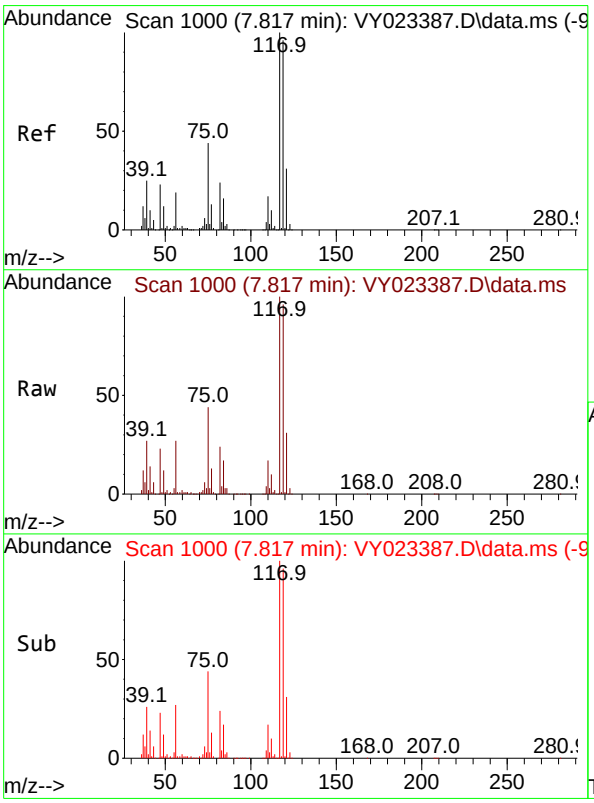
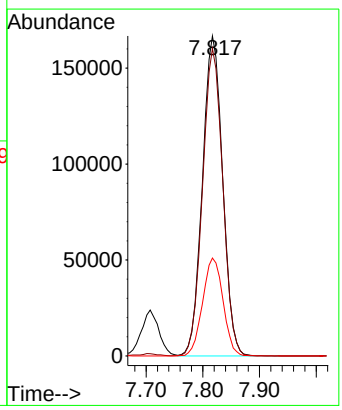
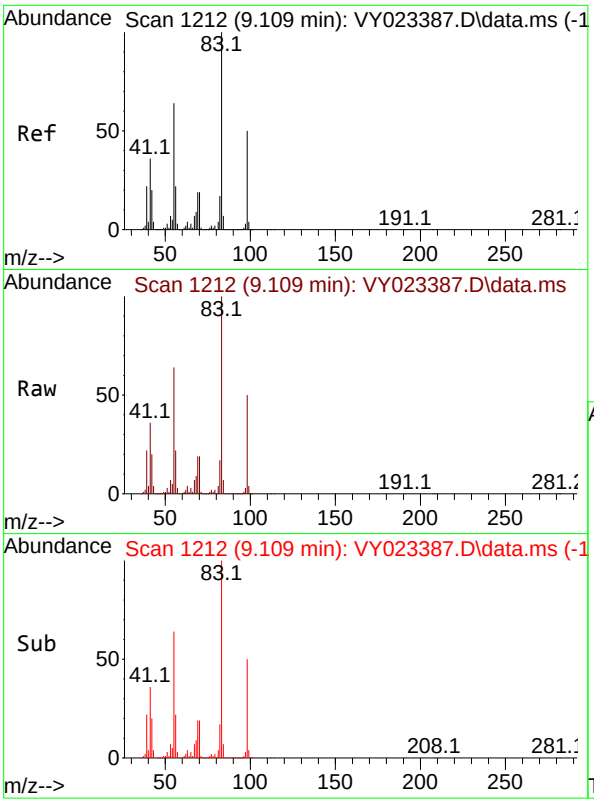



#38
Carbon Tetrachloride
Concen: 48.374 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:117 Resp: 413187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.0 | 76.8 | 115.2 |
| 121 | 30.6 | 24.5 | 36.7 |






#39
Methylcyclohexane
Concen: 48.113 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 83 Resp: 45295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 64.3 | 51.4 | 77.2 |
| 98 | 50.5 | 40.4 | 60.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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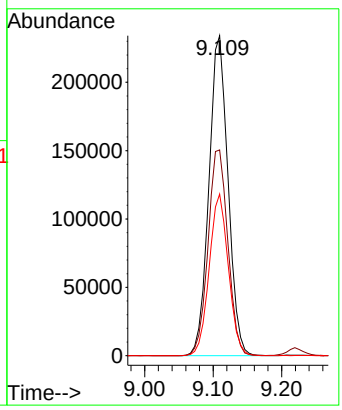
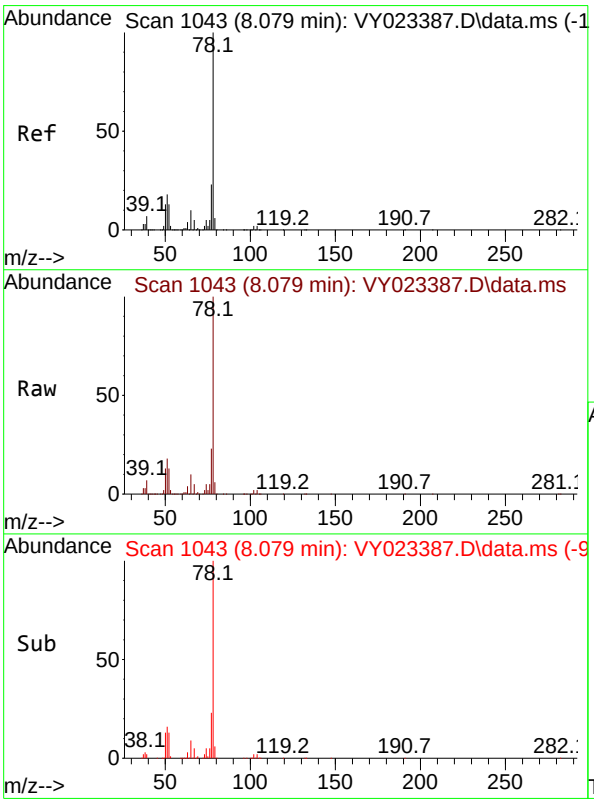
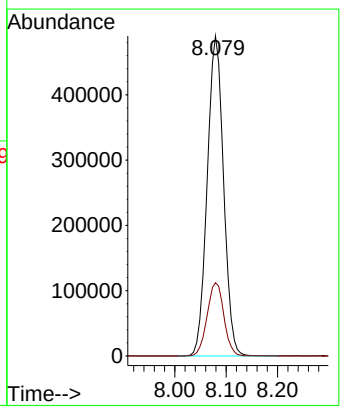


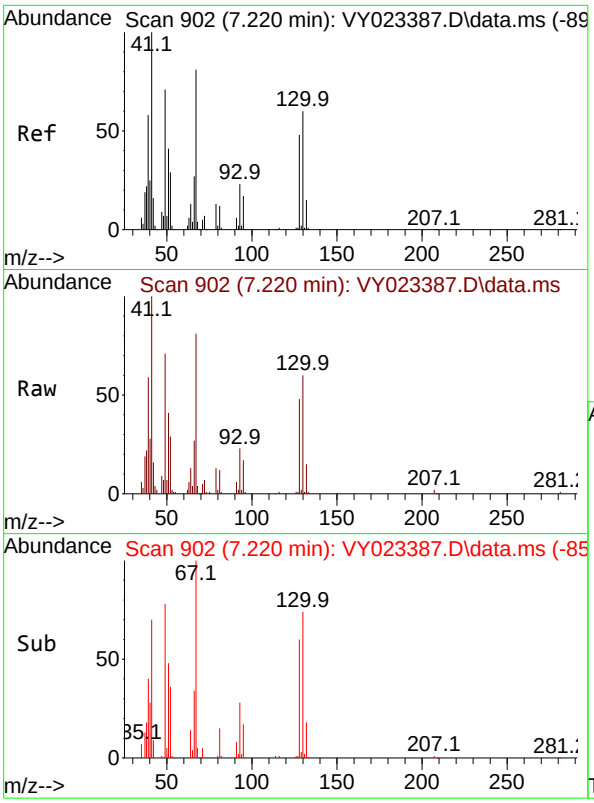




#40
Benzene
Concen: 47.154 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 78 Resp: 1080883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.9 | 18.3 | 27.5 |

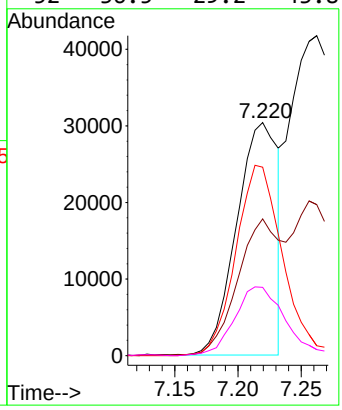





#41
Methacrylonitrile
Concen: 45.399 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 41 Resp: 6854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 65.3 | 52.2 | 78.4 |
| 67 | 93.6 | 74.9 | 112.3 |
| 52 | 36.5 | 29.2 | 43.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
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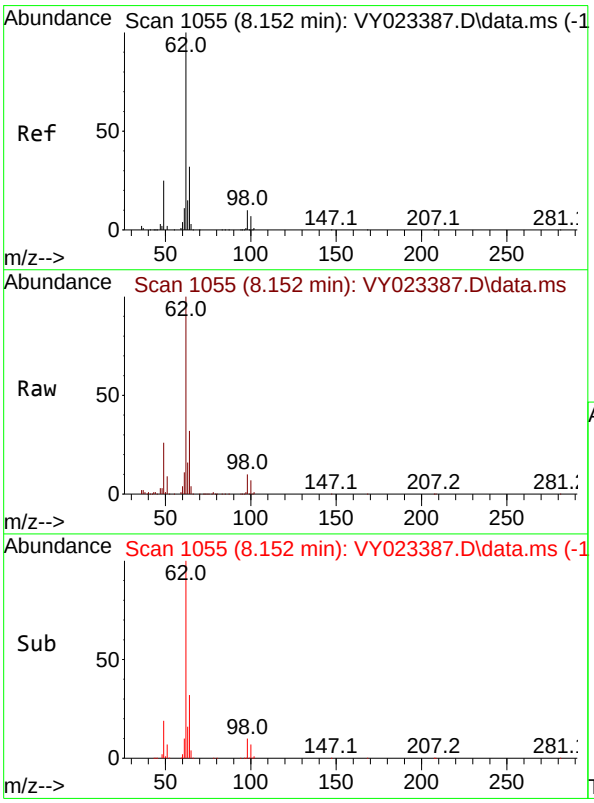
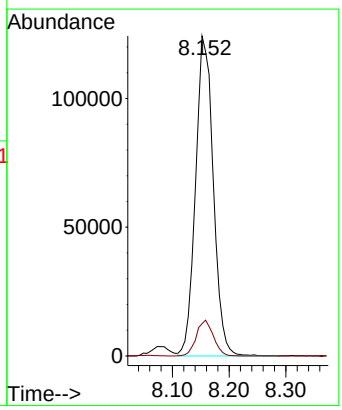
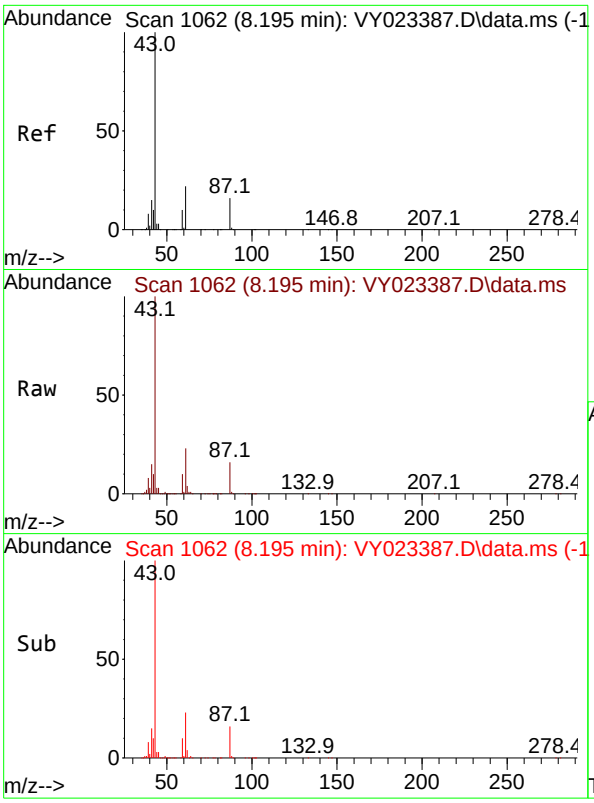



#42
1,2-Dichloroethane
Concen: 46.350 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 62 Resp: 270387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.8 | 0.0 | 21.6 |

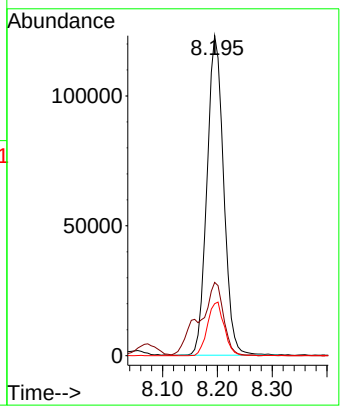





#43
Isopropyl Acetate
Concen: 45.811 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 25904

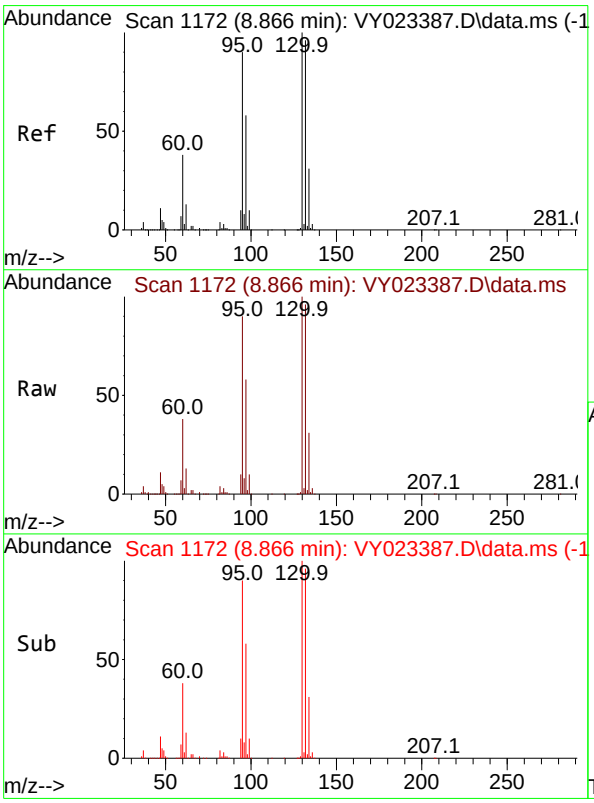
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.6 | 18.1 | 27.1 |
| 87 | 16.9 | 13.5 | 20.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

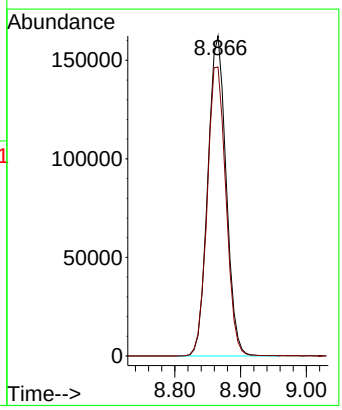
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

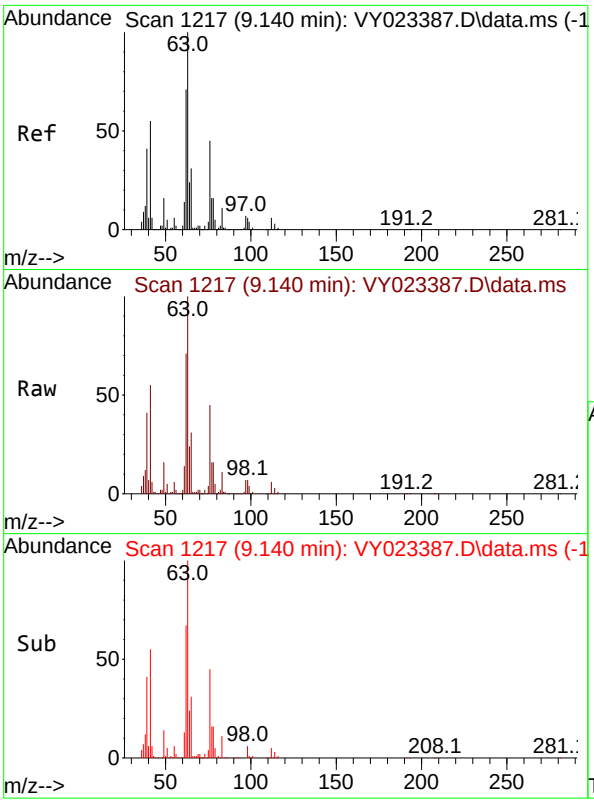



#44
Trichloroethene
Concen: 48.982 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:130 Resp: 315104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 90.3 | 0.0 | 180.6 |

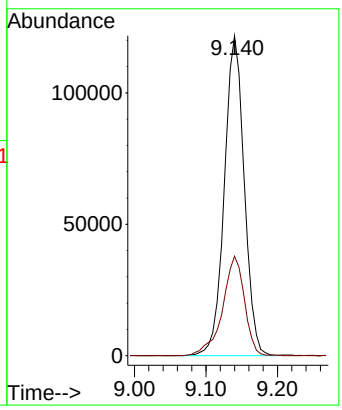





#45
1,2-Dichloropropane
Concen: 45.555 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 63 Resp: 23497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.1 | 24.9 | 37.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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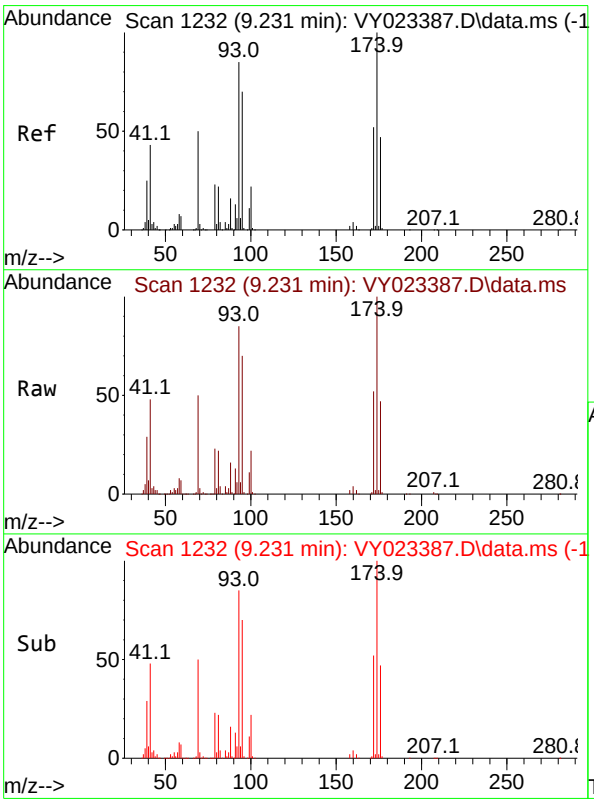
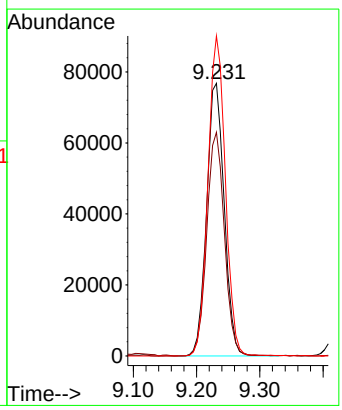
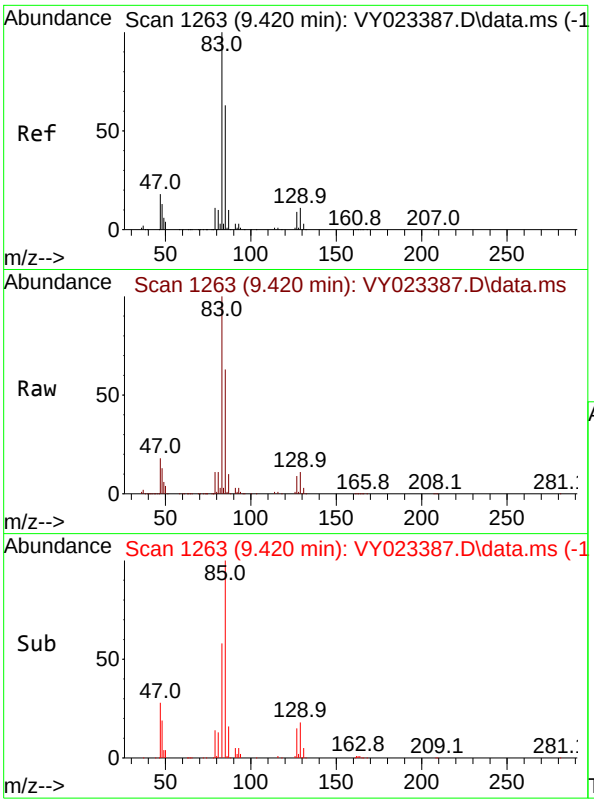



#46
Dibromomethane
Concen: 47.198 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 93 Resp: 148914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.7 | 65.4 | 98.0 |
| 174 | 116.1 | 92.9 | 139.3 |

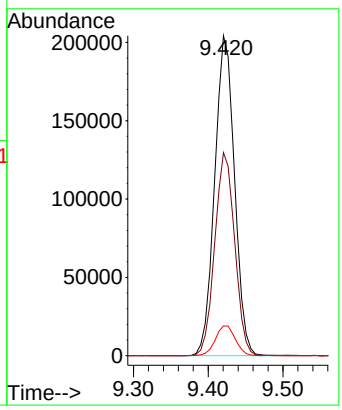





#47
Bromodichloromethane
Concen: 47.482 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 83 Resp: 37708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.5 | 50.8 | 76.2 |
| 127 | 9.3 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 10/10/2025
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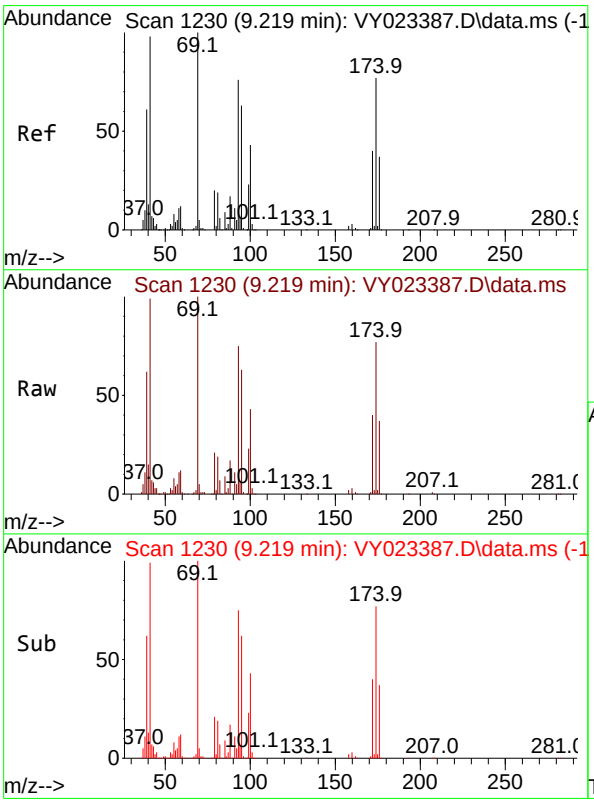
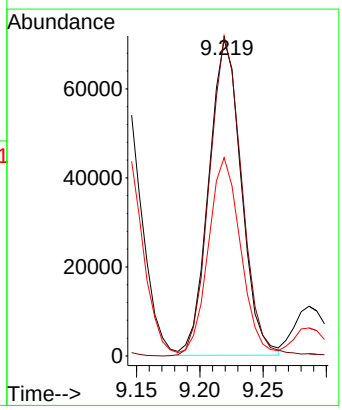
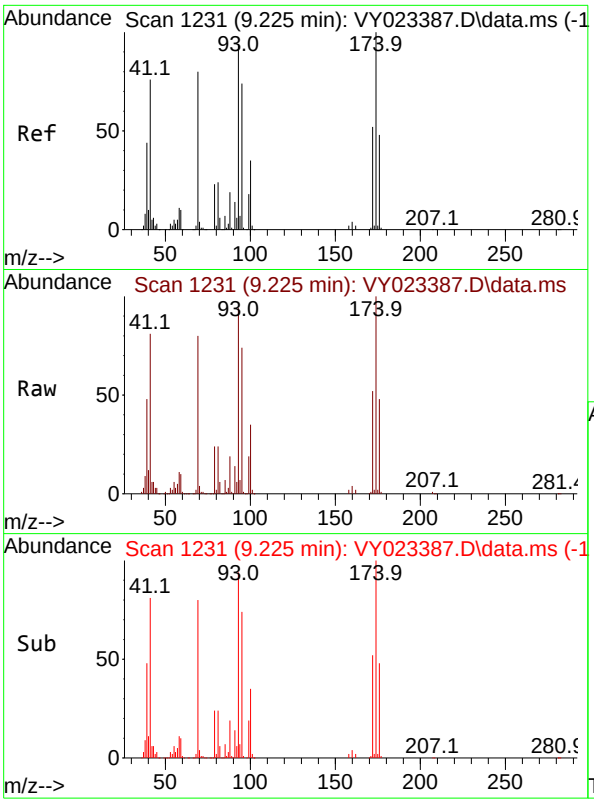



#48
Methyl methacrylate
Concen: 48.027 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 41 Resp: 126732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 101.2 | 81.0 | 121.4 |
| 39 | 60.3 | 48.2 | 72.4 |






#49
1,4-Dioxane
Concen: 1042.312 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 88 Resp: 3405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 27.3 | 21.8 | 32.8 |
| 58 | 58.5 | 46.8 | 70.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 10/10/2025
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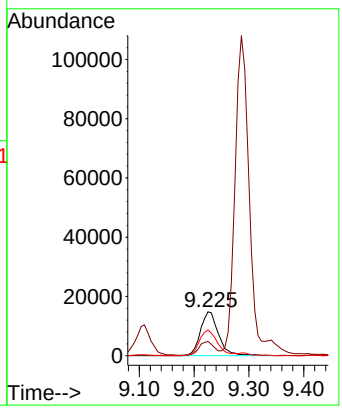
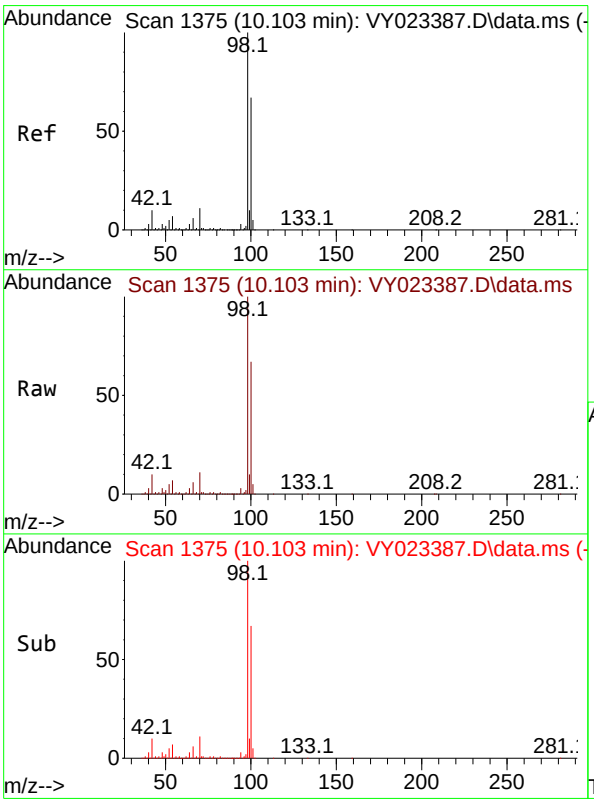
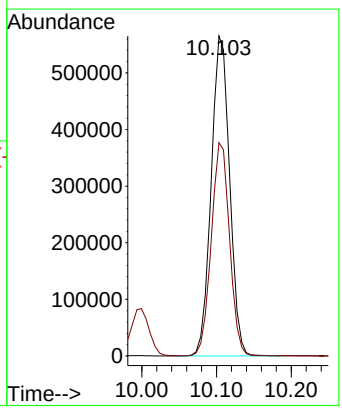


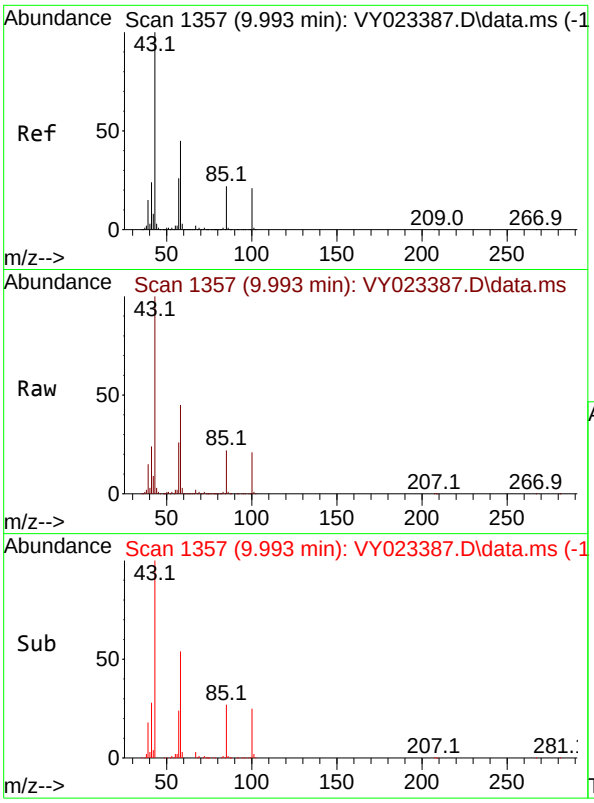




#50
Toluene-d8
Concen: 49.334 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 98 Resp: 969649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.2 | 53.0 | 79.4 |






#51
4-Methyl-2-Pentanone
Concen: 235.772 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 68287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 44.1 | 35.3 | 52.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 10/10/2025
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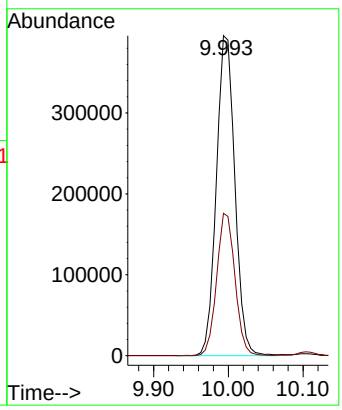
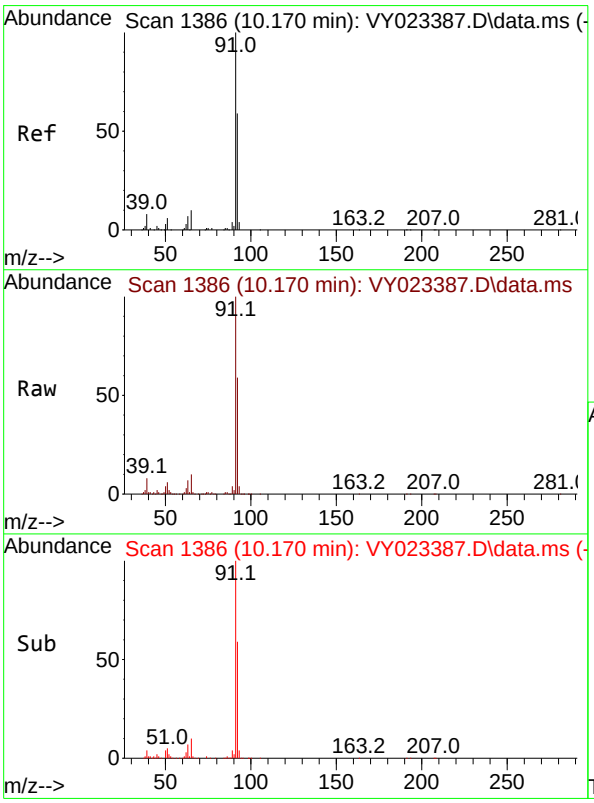
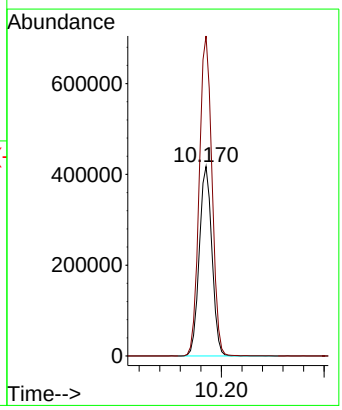


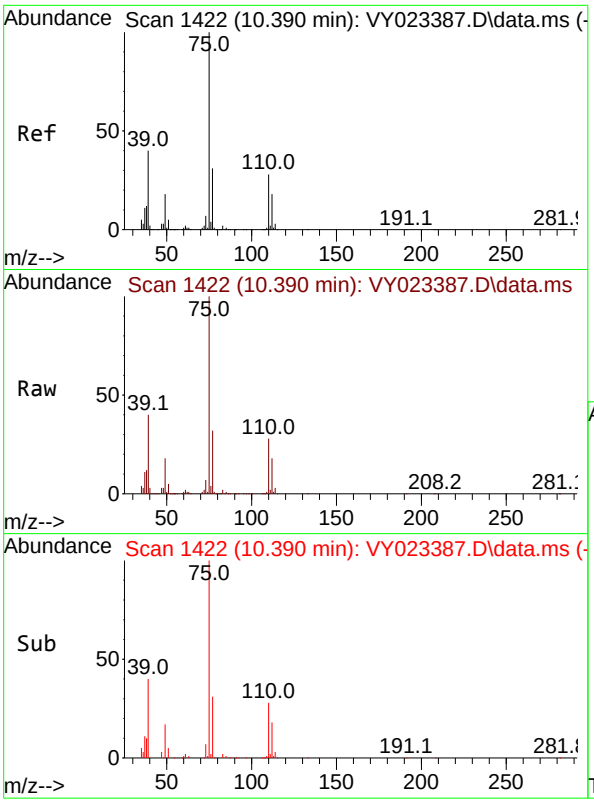




#52
Toluene
Concen: 48.824 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 92 Resp: 710404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.5 | 136.4 | 204.6 |






#53
t-1,3-Dichloropropene
Concen: 48.438 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 75 Resp: 33039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.1 | 37.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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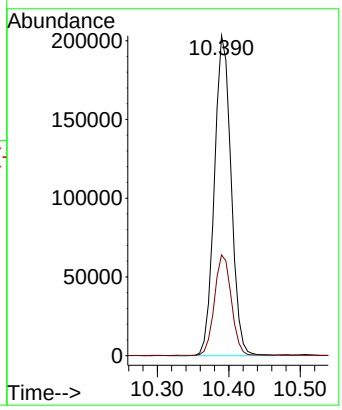
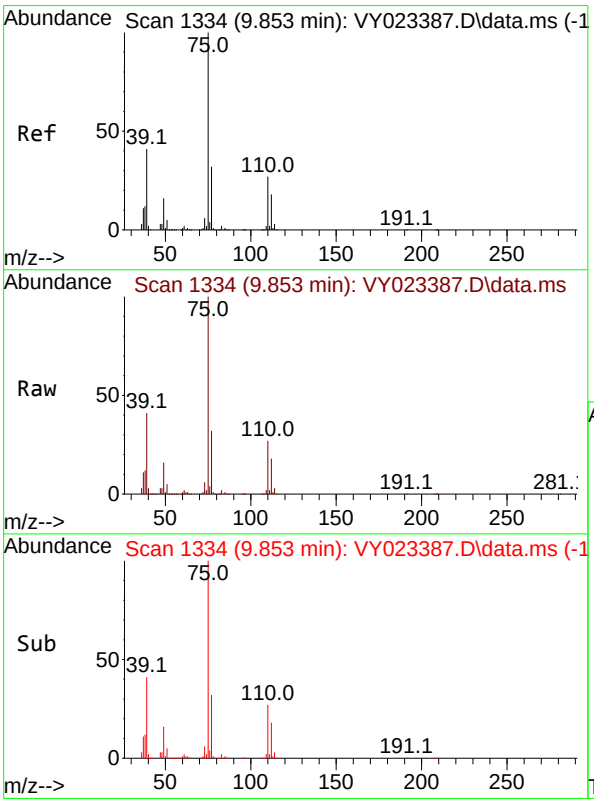
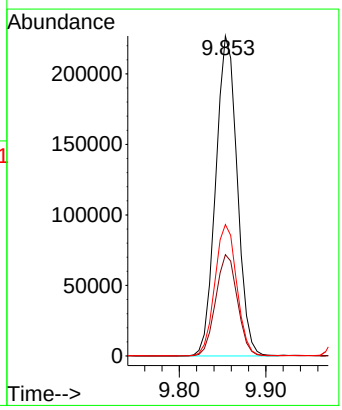


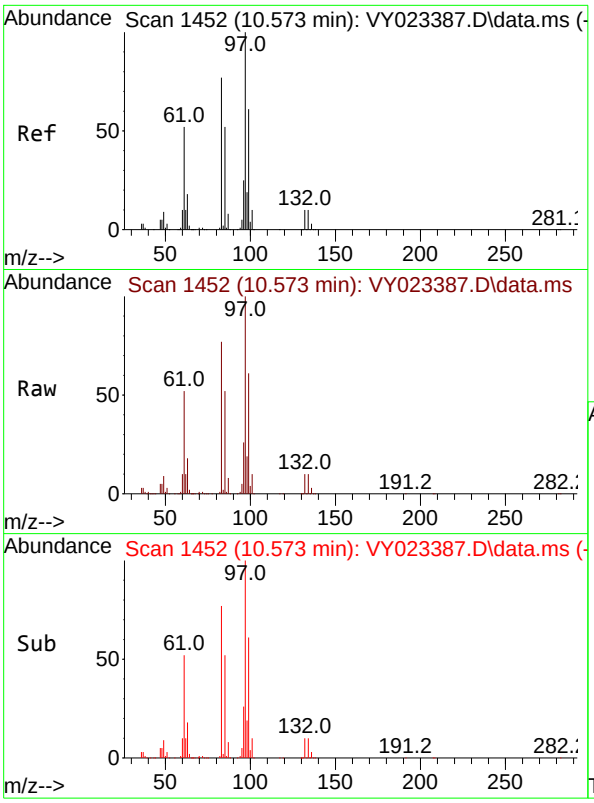




#54
cis-1,3-Dichloropropene
Concen: 47.910 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 75 Resp: 390619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.4 | 38.0 |
| 39 | 41.0 | 32.8 | 49.2 |

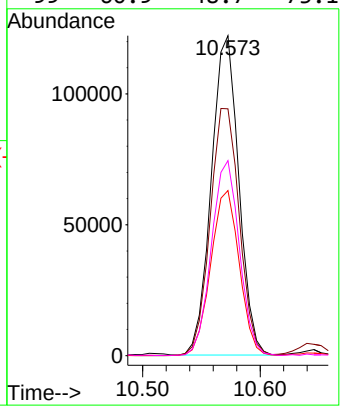





#55
1,1,2-Trichloroethane
Concen: 47.296 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 97 Resp: 19847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 77.2 | 61.8 | 92.6 |
| 85 | 51.6 | 41.3 | 61.9 |
| 99 | 60.9 | 48.7 | 73.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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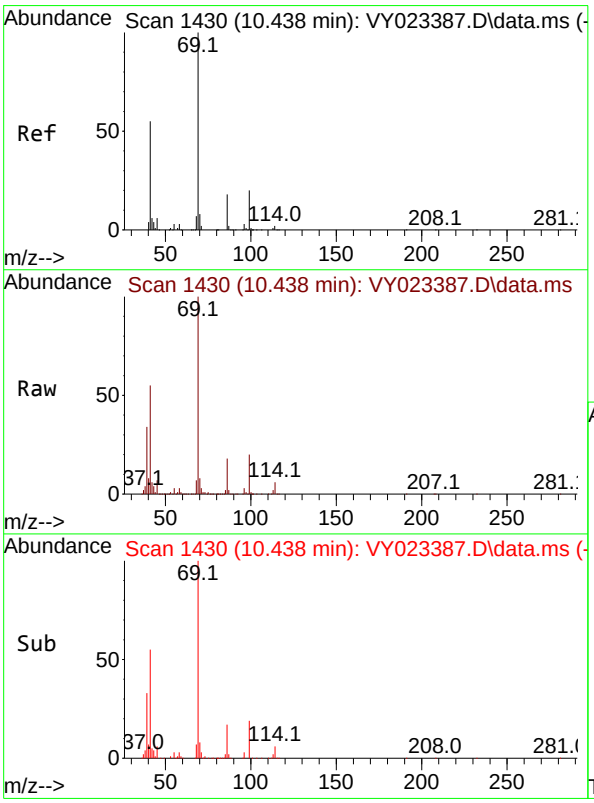
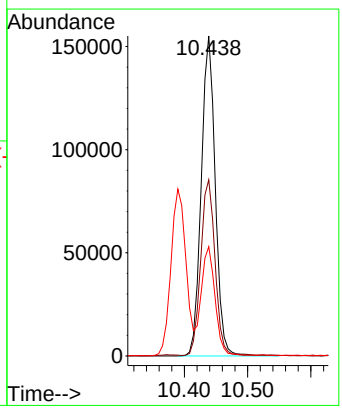
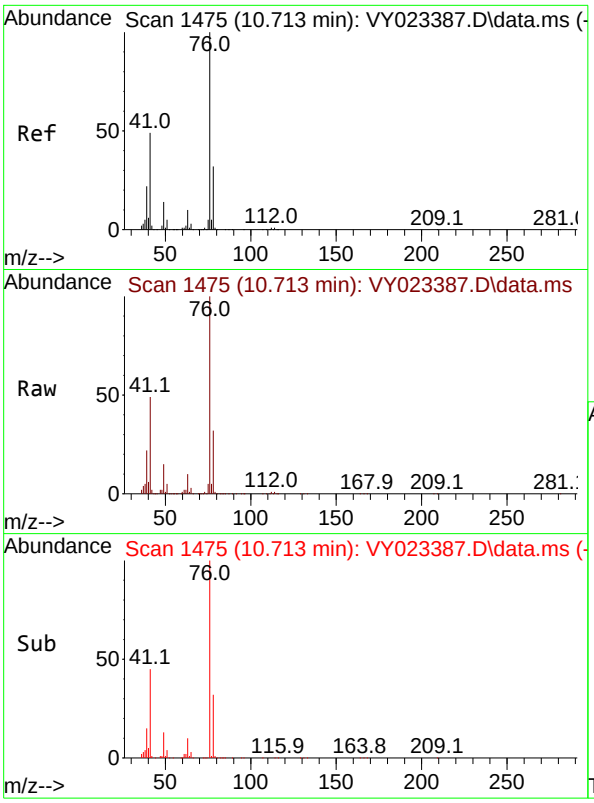



#56
Ethyl methacrylate
Concen: 49.535 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 69 Resp: 239407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 55.8 | 44.6 | 67.0 |
| 39 | 33.7 | 27.0 | 40.4 |

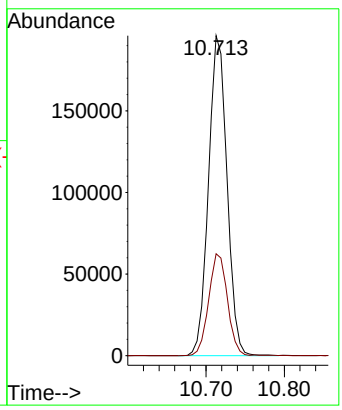





#57
1,3-Dichloropropane
Concen: 47.301 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 76 Resp: 32127(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.4 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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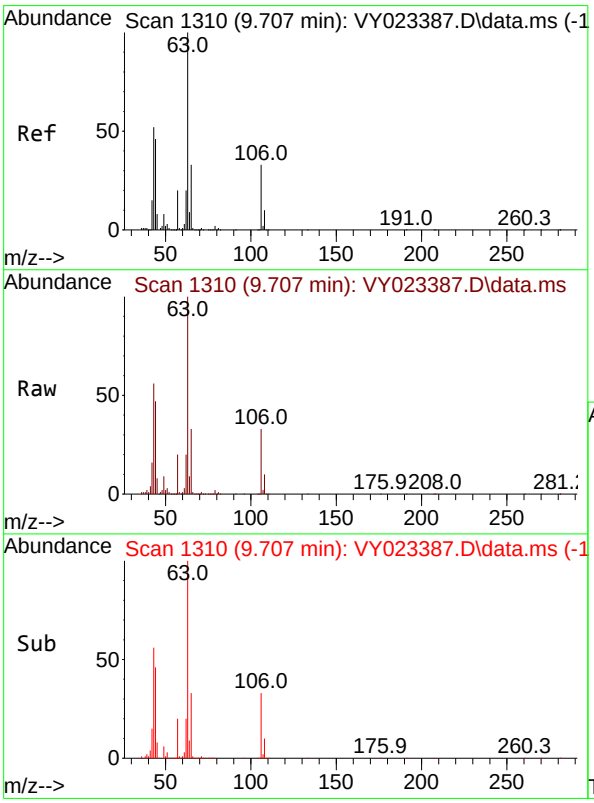
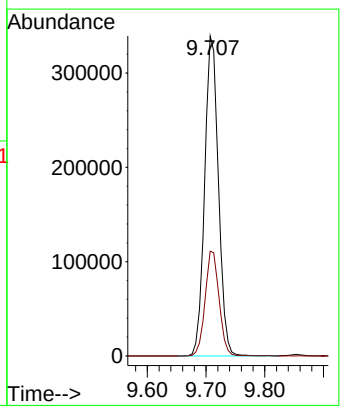
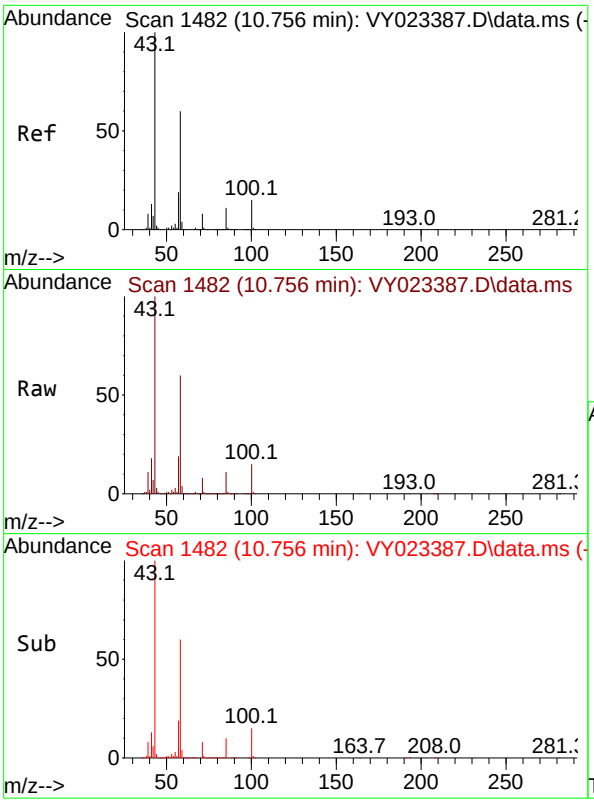



#58
2-Chloroethyl Vinyl ether
Concen: 261.921 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 63 Resp: 553816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 33.2 | 26.6 | 39.8 |

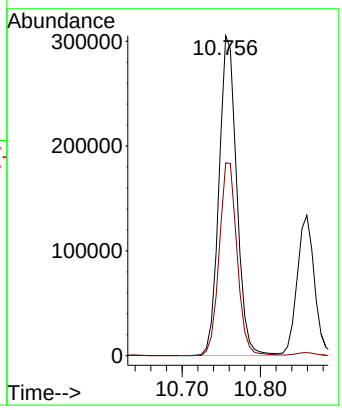





#59
2-Hexanone
Concen: 239.162 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 47960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 61.0 | 30.5 | 91.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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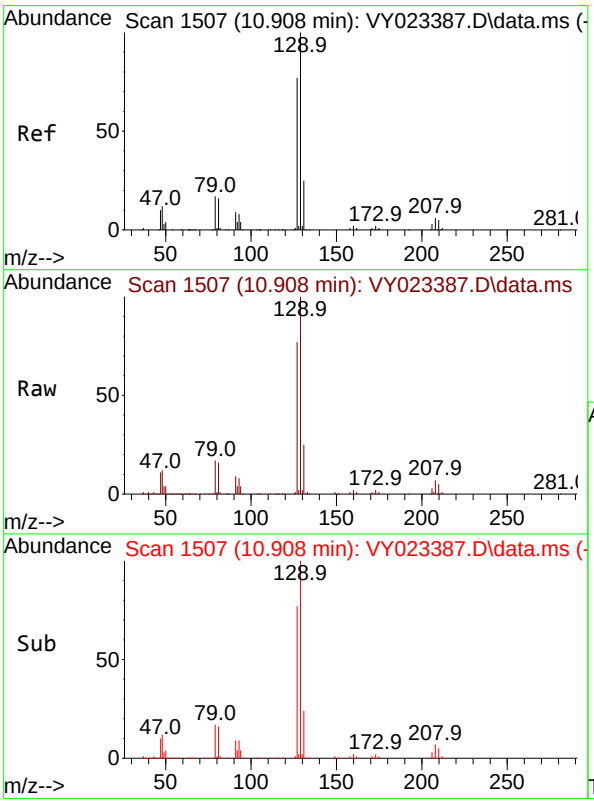
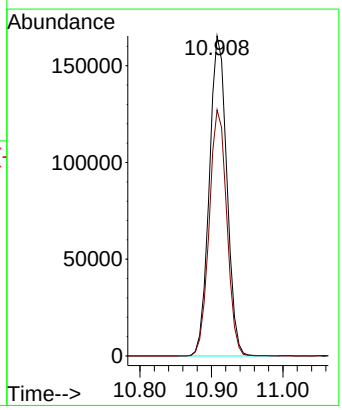
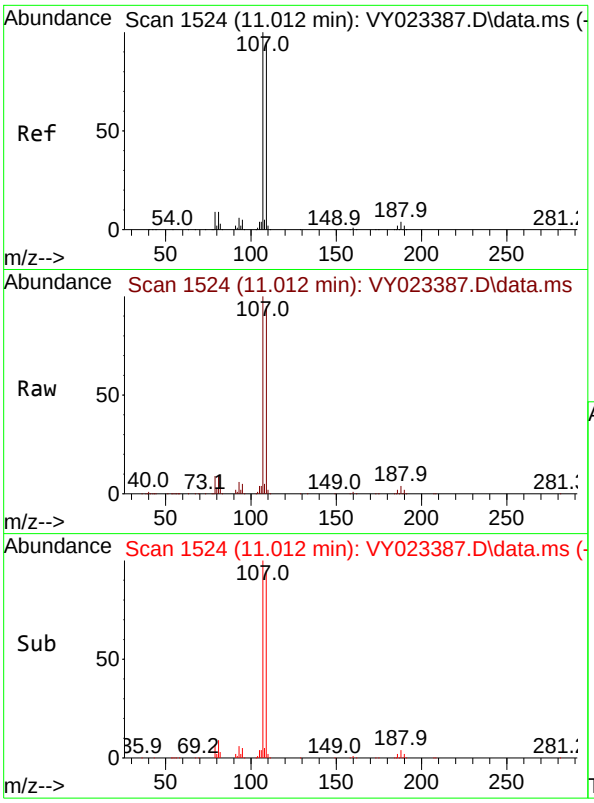



#60
Dibromochloromethane
Concen: 49.103 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:129 Resp: 281047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.1 | 38.6 | 115.7 |

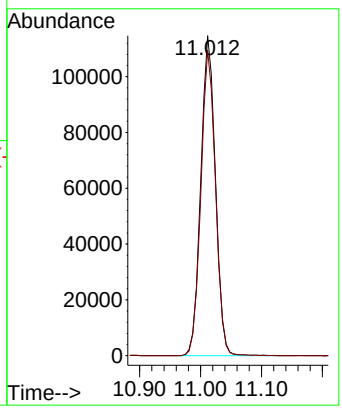





#61
1,2-Dibromoethane
Concen: 48.468 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:107 Resp: 19135

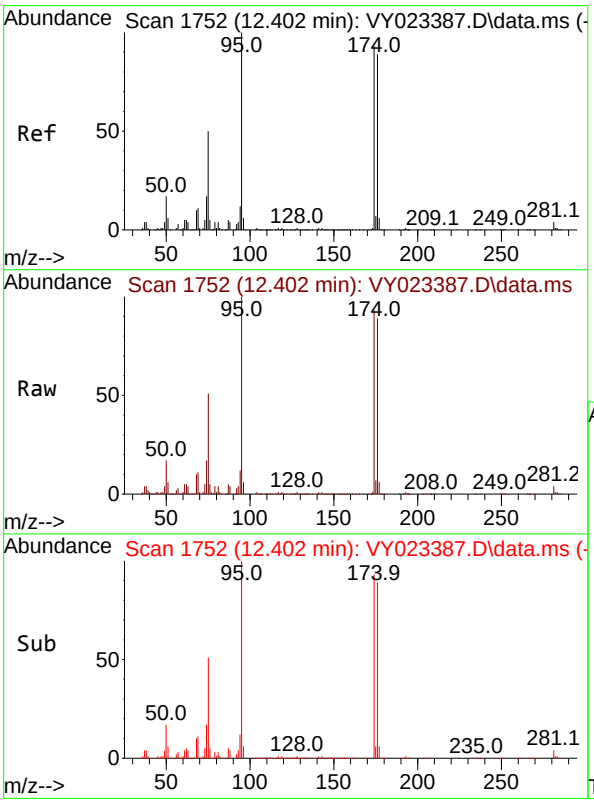
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.1 | 76.1 | 114.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

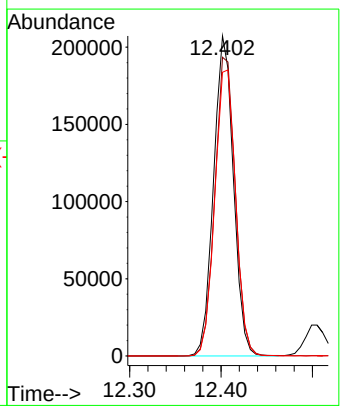
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

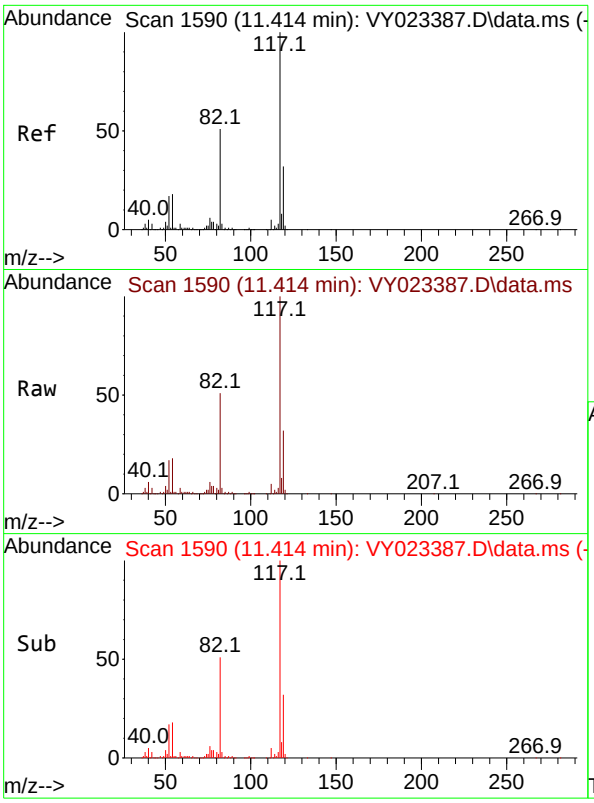



#62
4-Bromofluorobenzene
Concen: 50.546 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 95 Resp: 313426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 96.4 | 0.0 | 192.8 |
| 176 | 93.8 | 0.0 | 187.6 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:117 Resp: 74986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 51.2 | 41.0 | 61.4 |
| 119 | 32.0 | 25.6 | 38.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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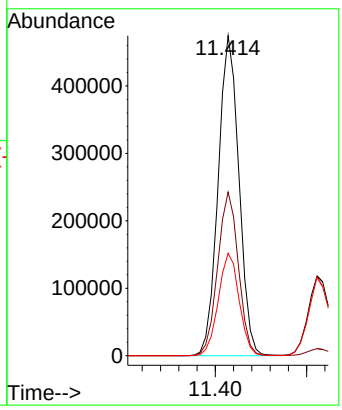
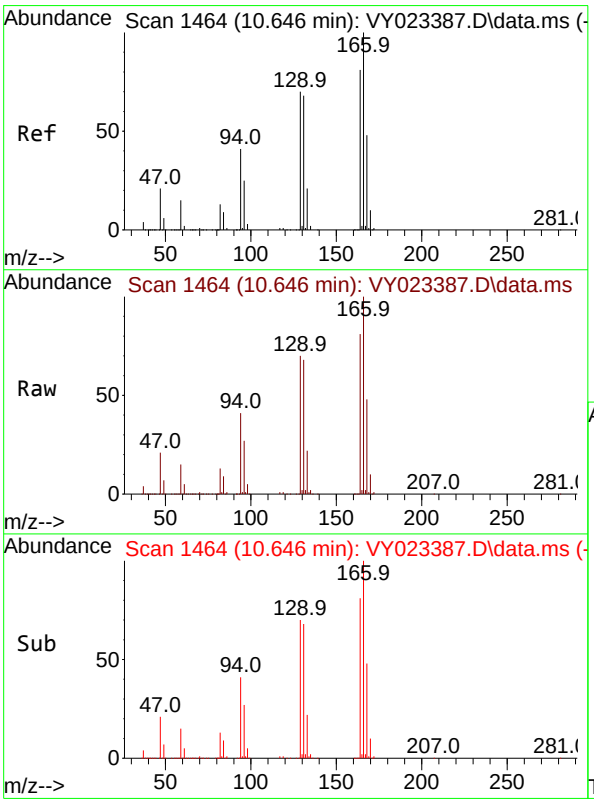
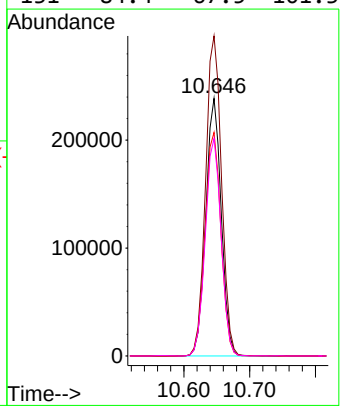


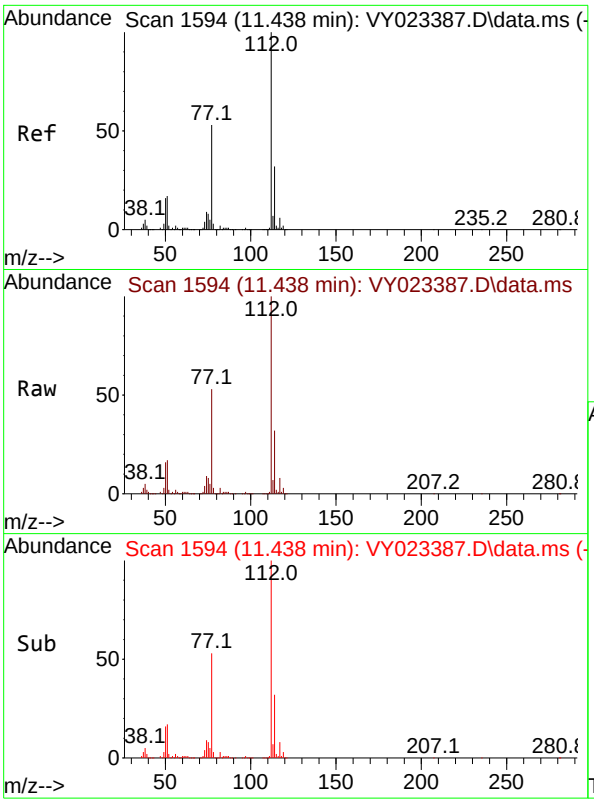




#64
Tetrachloroethene
Concen: 52.264 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:164 Resp: 392056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.2 | 99.4 | 149.0 |
| 129 | 86.8 | 69.4 | 104.2 |
| 131 | 84.4 | 67.5 | 101.3 |

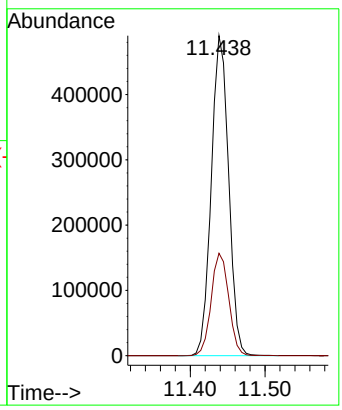





#65
Chlorobenzene
Concen: 48.460 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:112 Resp: 78965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.0 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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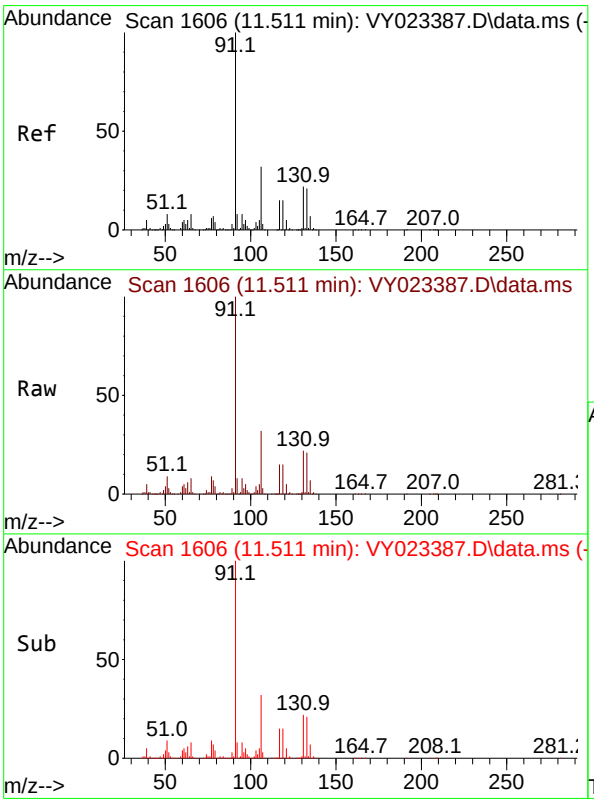
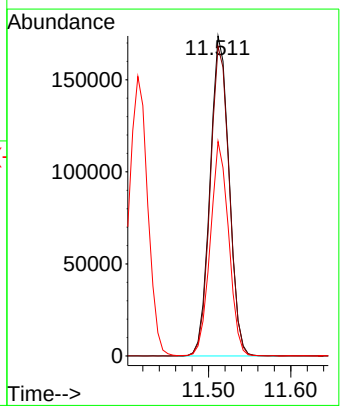
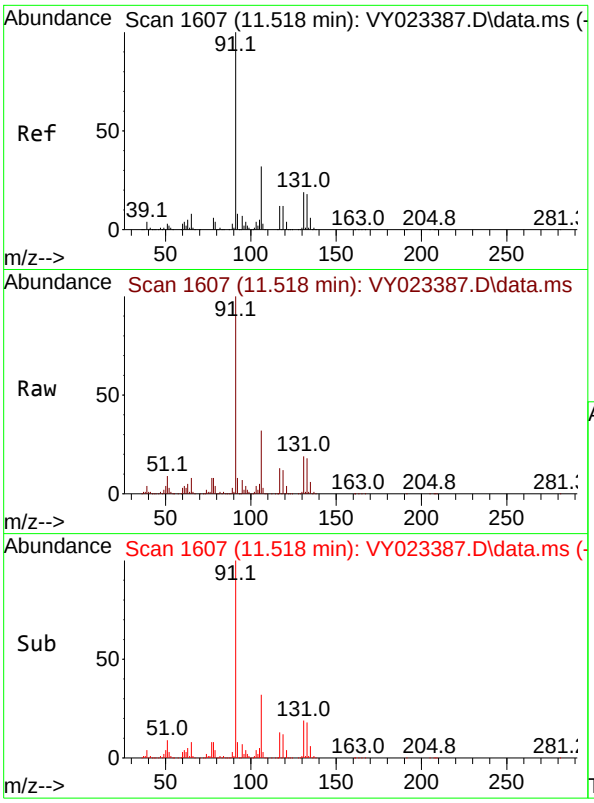



#66
1,1,1,2-Tetrachloroethane
Concen: 48.788 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:131 Resp: 279583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.8 | 48.4 | 145.2 |
| 119 | 64.8 | 32.4 | 97.2 |






#67
Ethyl Benzene
Concen: 50.099 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 91 Resp: 133235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.3 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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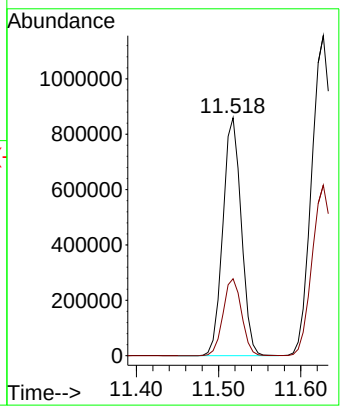
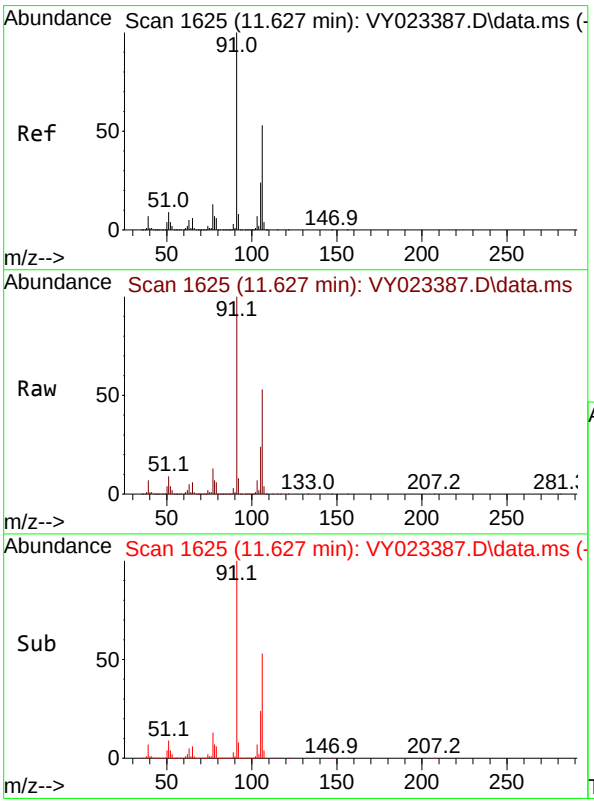
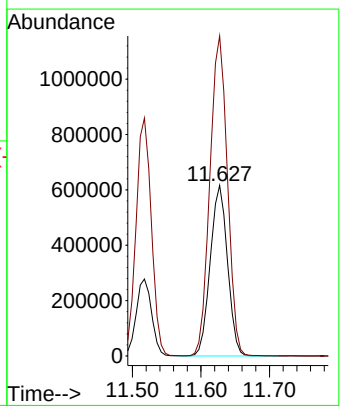


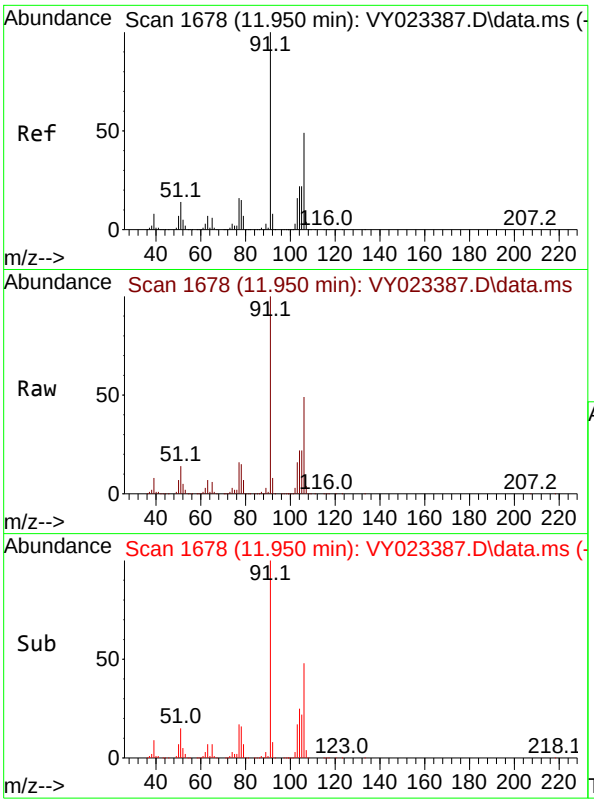




#68
m/p-Xylenes
Concen: 101.092 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:106 Resp: 1077583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 190.8 | 152.6 | 229.0 |






#69
o-Xylene
Concen: 50.946 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:106 Resp: 50272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.7 | 101.4 | 304.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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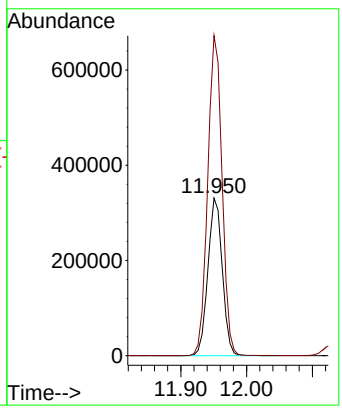
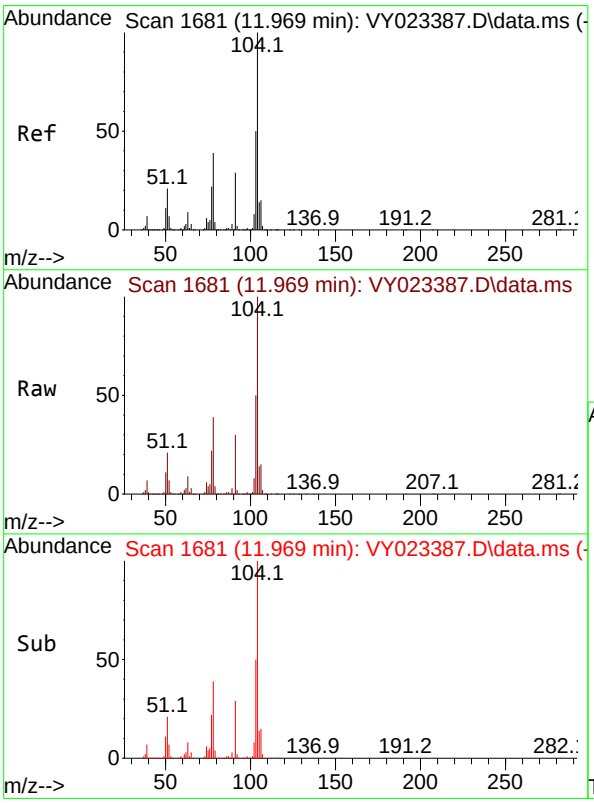
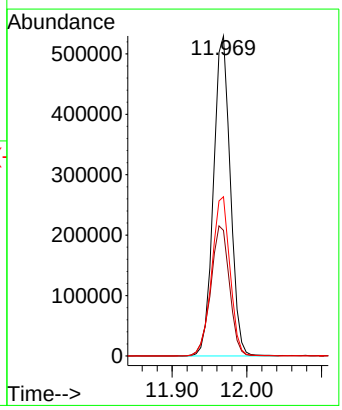


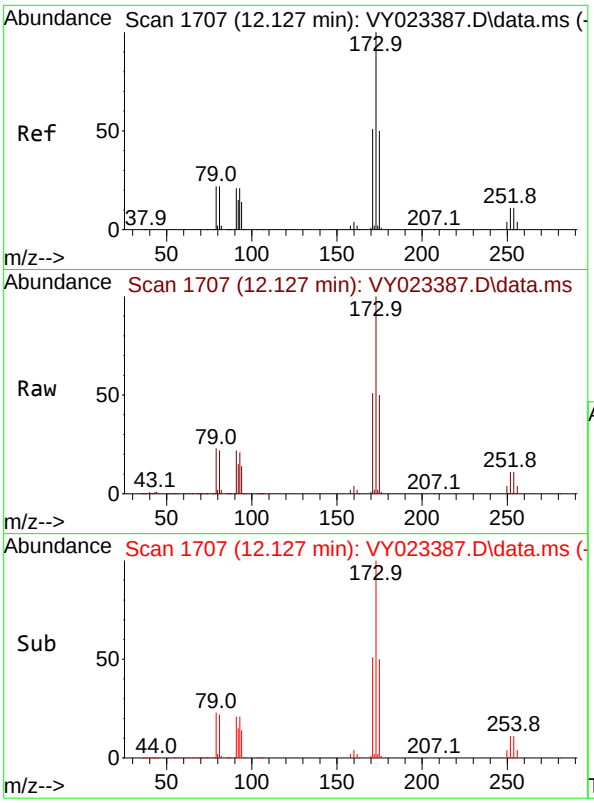




#70
Styrene
Concen: 51.059 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:104 Resp: 831908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 45.1 | 36.1 | 54.1 |
| 103 | 54.0 | 43.2 | 64.8 |

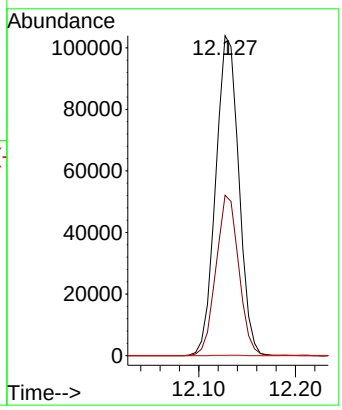





#71
Bromoform
Concen: 50.229 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:173 Resp: 17231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.5 | 24.8 | 74.3 |
| 254 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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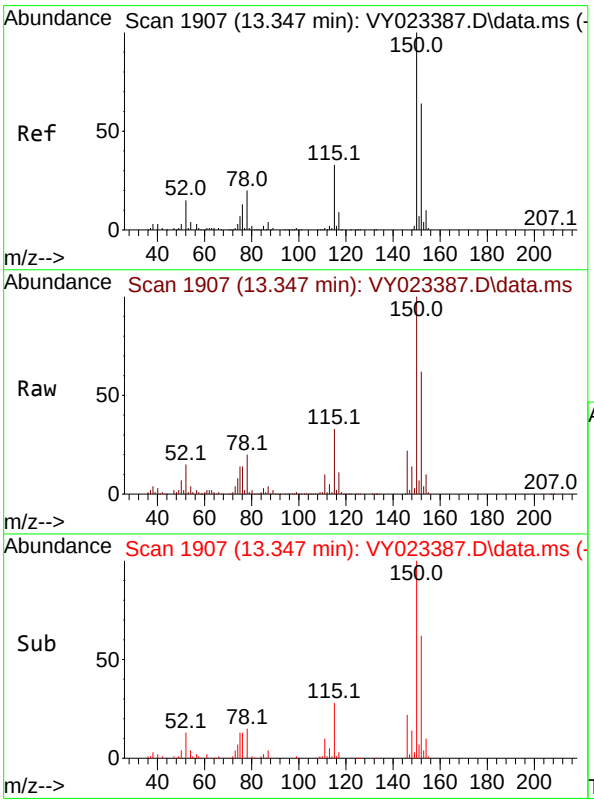
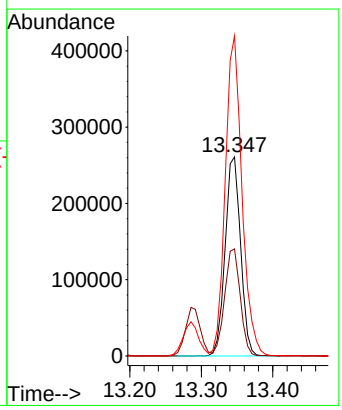
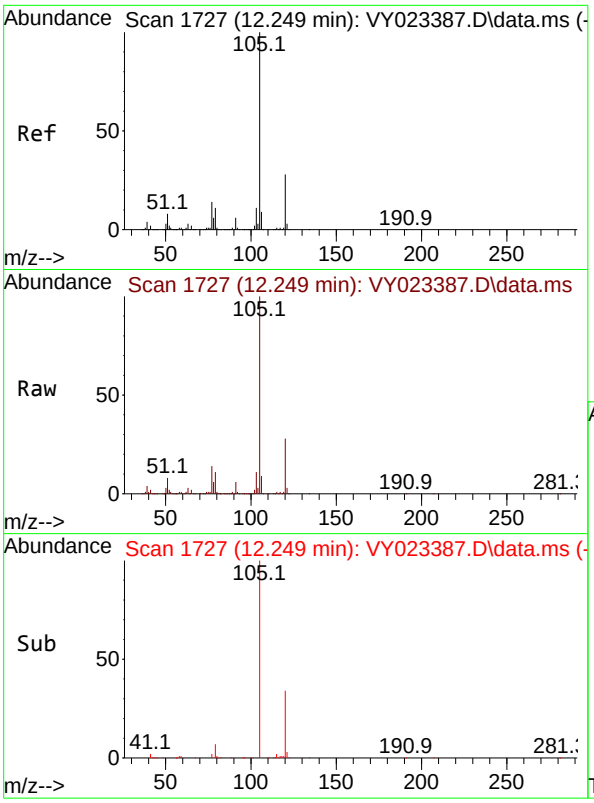



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:152 Resp: 392169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 54.1 | 27.1 | 81.2 |
| 150 | 173.7 | 0.0 | 347.4 |

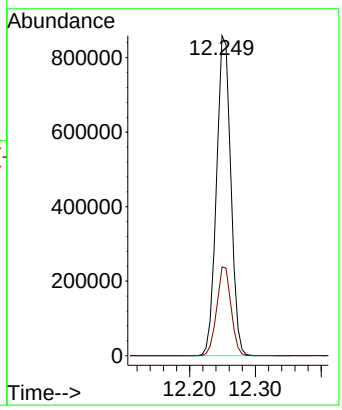





#73
Isopropylbenzene
Concen: 49.803 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:105 Resp: 130100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.8 | 13.9 | 41.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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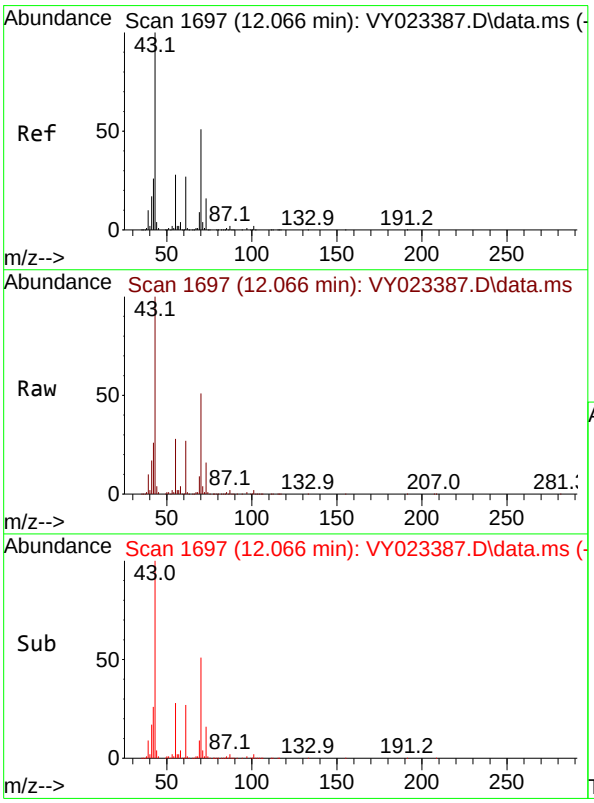
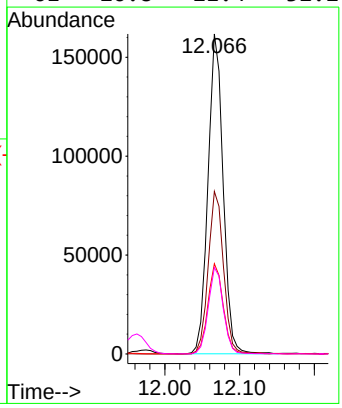
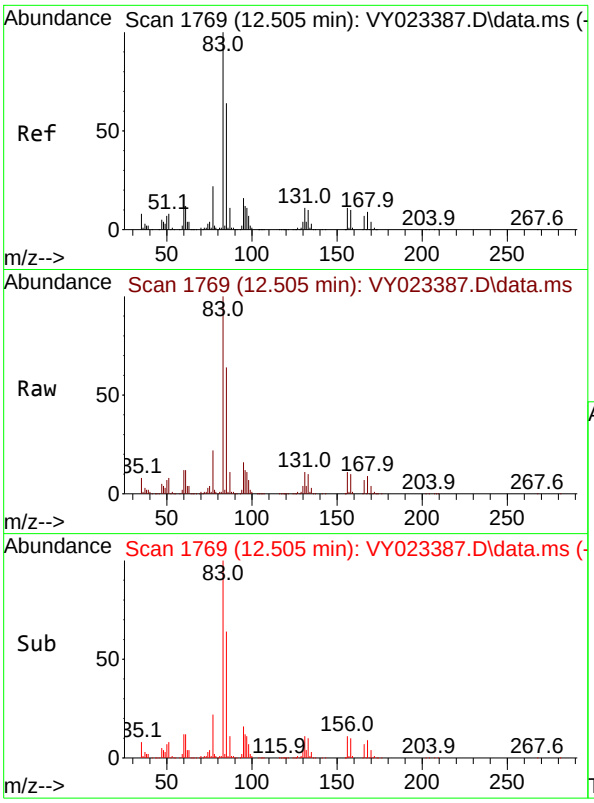



#74
N-amyl acetate
Concen: 46.640 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 227684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 51.4 | 41.1 | 61.7 |
| 55 | 28.8 | 23.0 | 34.6 |
| 61 | 26.8 | 21.4 | 32.2 |

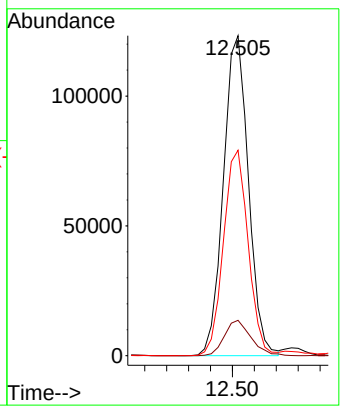





#75
1,1,2,2-Tetrachloroethane
Concen: 44.878 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 83 Resp: 19556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.7 | 5.9 | 17.6 |
| 85 | 63.5 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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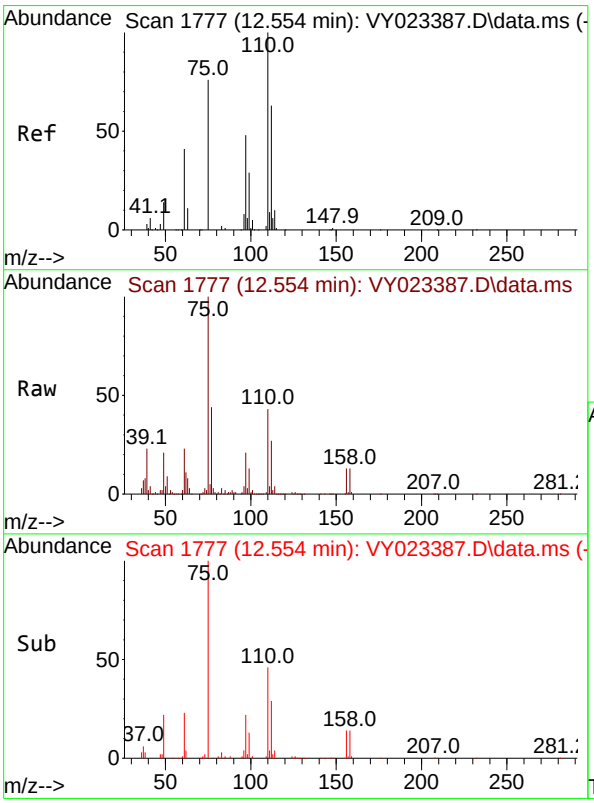
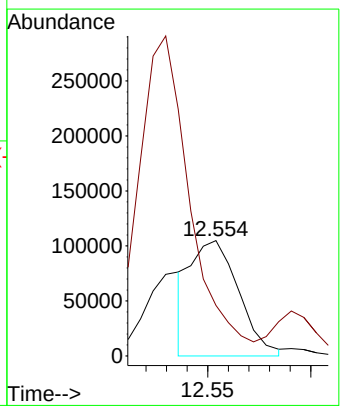
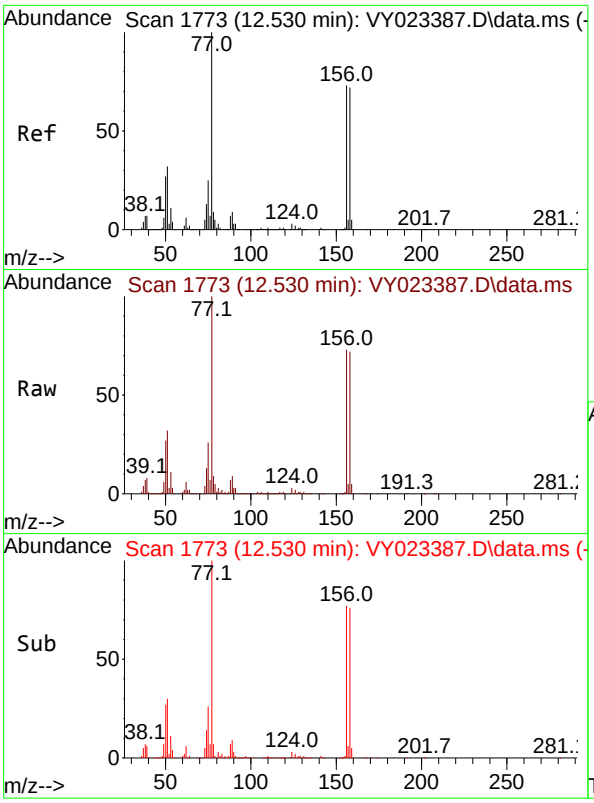



#76
1,2,3-Trichloropropane
Concen: 43.898 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 75 Resp: 169814

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

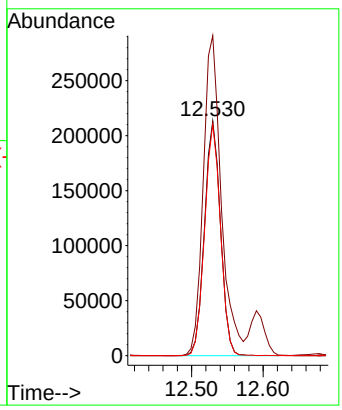





#77
Bromobenzene
Concen: 49.419 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:156 Resp: 33133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 153.7 | 76.8 | 230.5 |
| 158 | 98.1 | 49.0 | 147.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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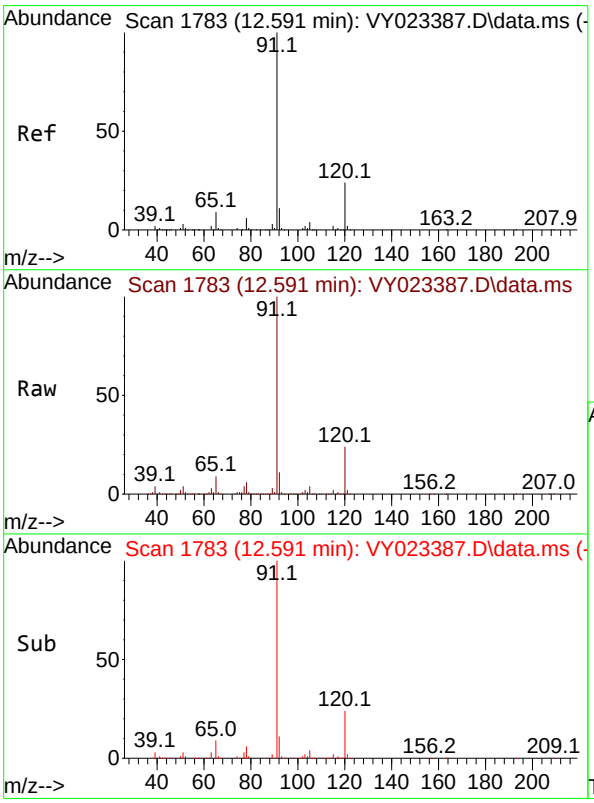
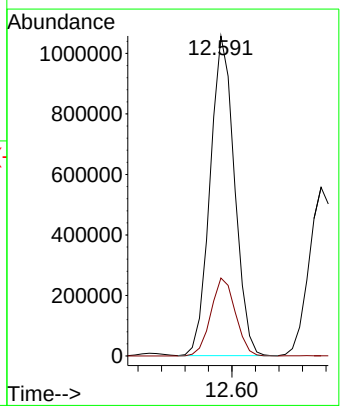
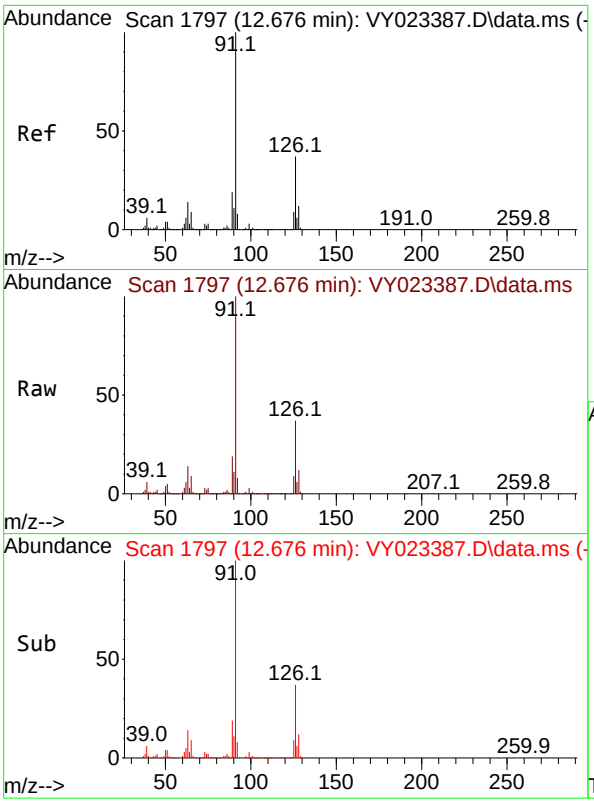



#78
n-propylbenzene
Concen: 49.572 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 91 Resp: 1522965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.5 | 12.3 | 36.8 |






#79
2-Chlorotoluene
Concen: 49.235 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

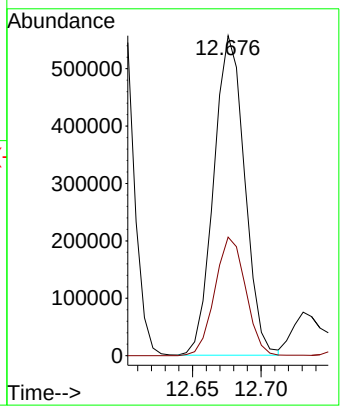
Tgt Ion: 91 Resp: 87333

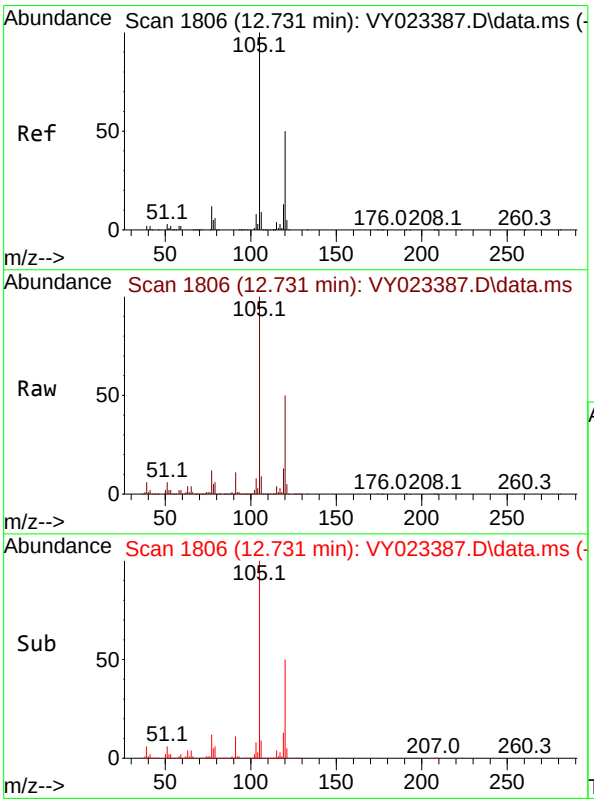
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 37.0 | 18.5 | 55.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

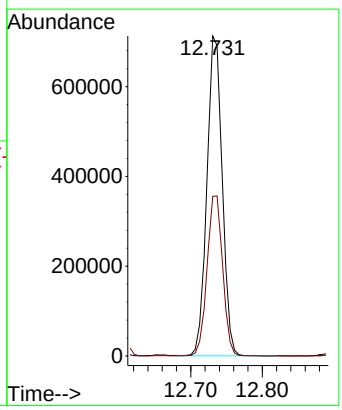


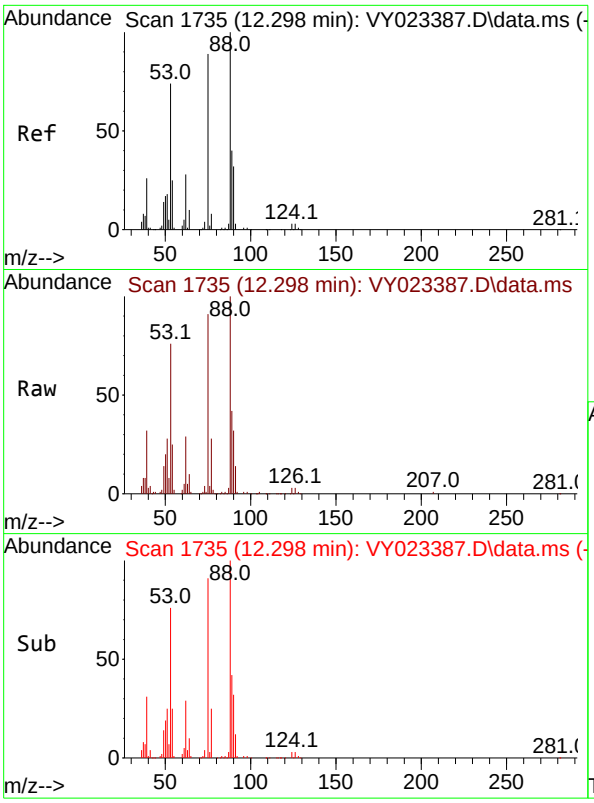




#80
1,3,5-Trimethylbenzene
Concen: 49.966 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:105 Resp: 1061112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.9 | 25.4 | 76.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 46.212 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 75 Resp: 6629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 85.7 | 68.6 | 102.8 |
| 89 | 48.7 | 39.0 | 58.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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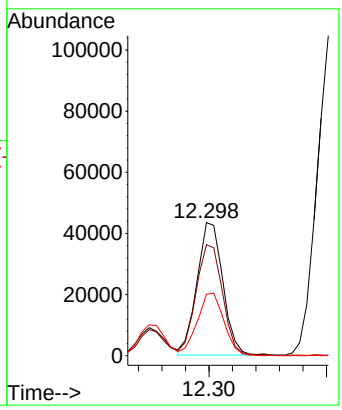
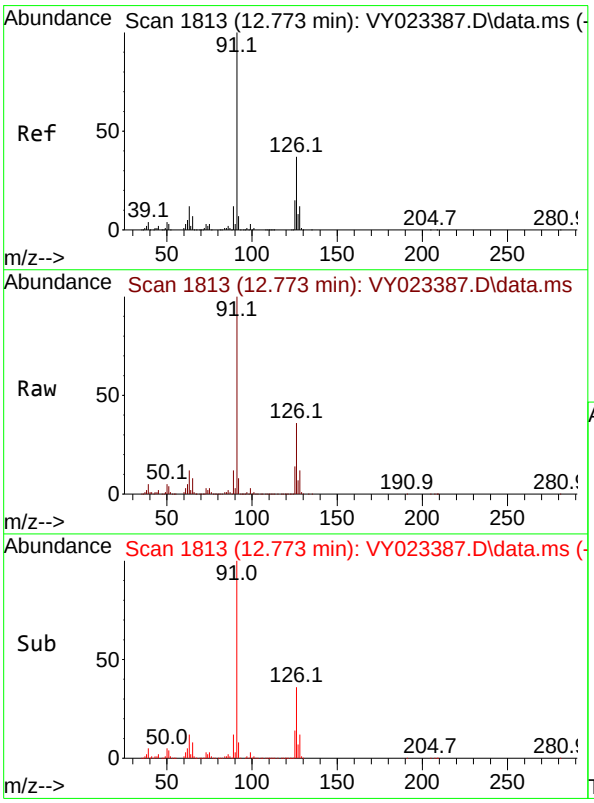
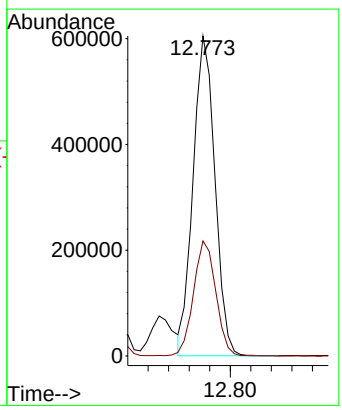


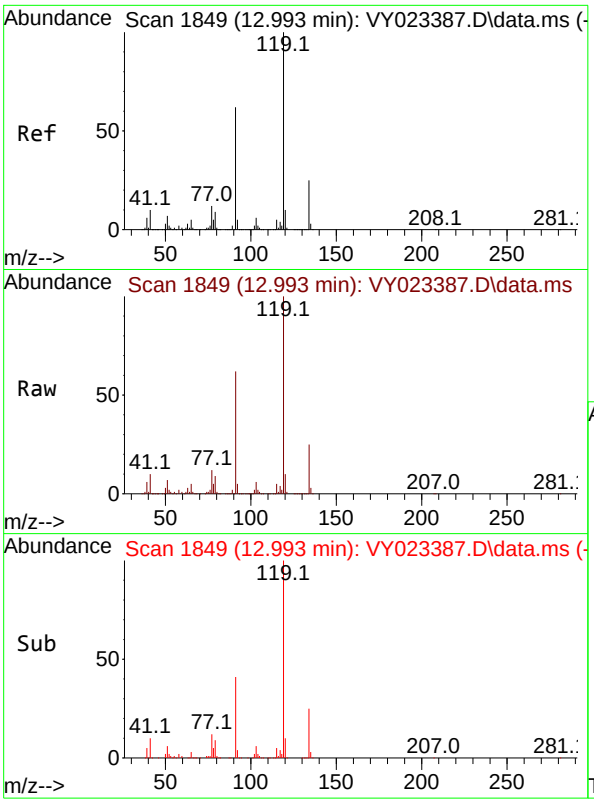




#82
4-Chlorotoluene
Concen: 48.192 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 91 Resp: 892764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.9 | 18.4 | 55.4 |

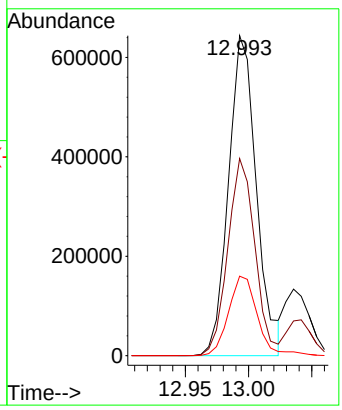





#83
tert-Butylbenzene
Concen: 51.104 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:119 Resp: 98893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 59.9 | 29.9 | 89.8 |
| 134 | 25.8 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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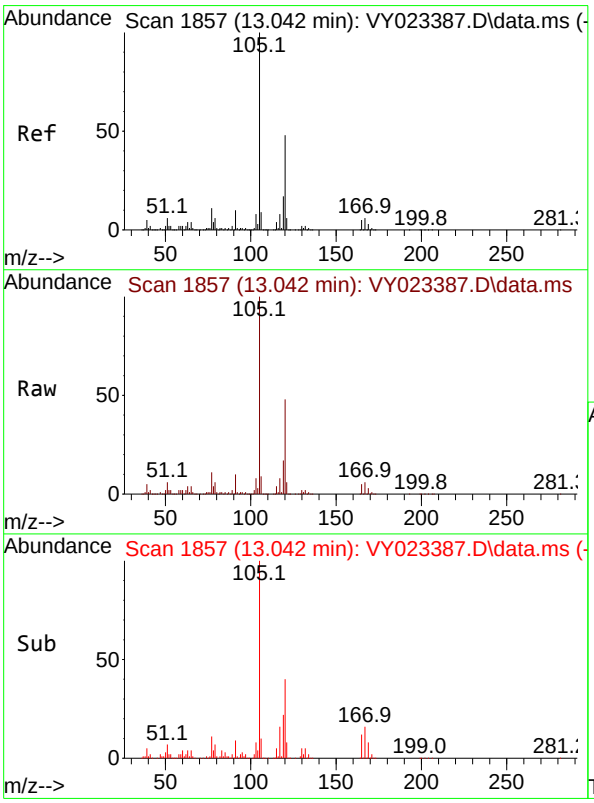
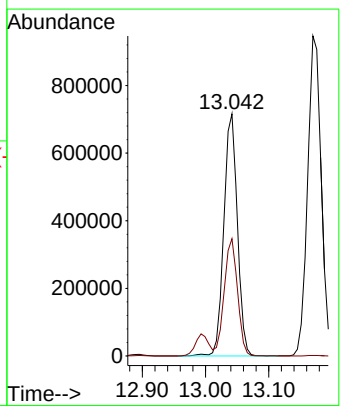
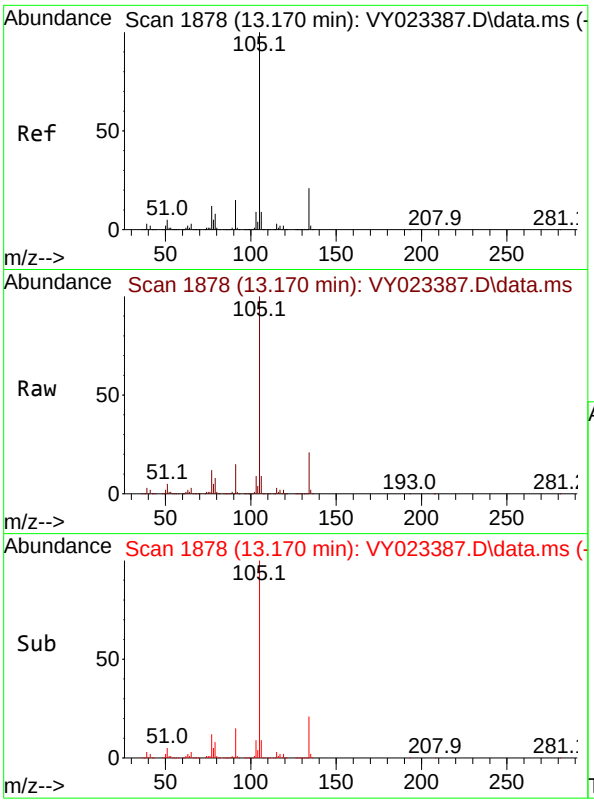



#84
1,2,4-Trimethylbenzene
Concen: 50.505 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:105 Resp: 1061159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.5 | 23.8 | 71.2 |

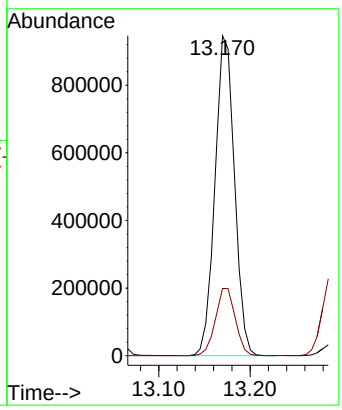





#85
sec-Butylbenzene
Concen: 50.133 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:105 Resp: 140500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.4 | 10.7 | 32.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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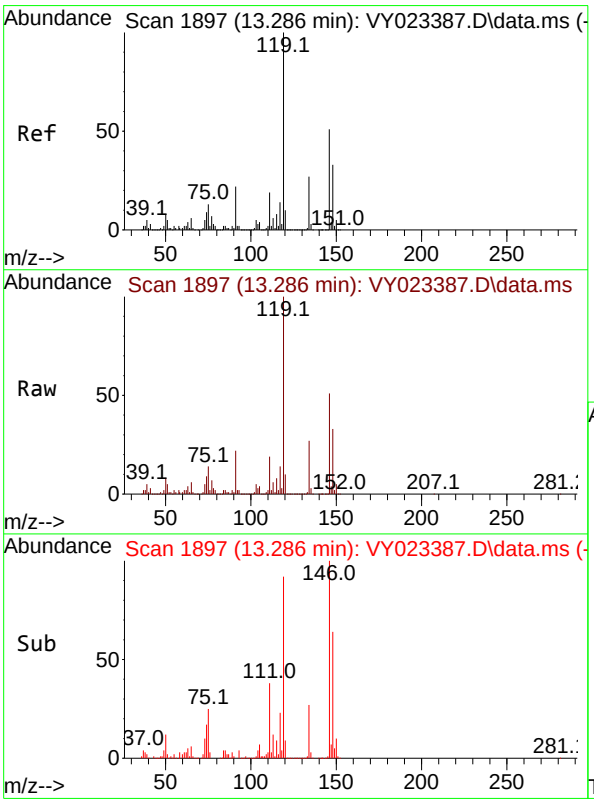
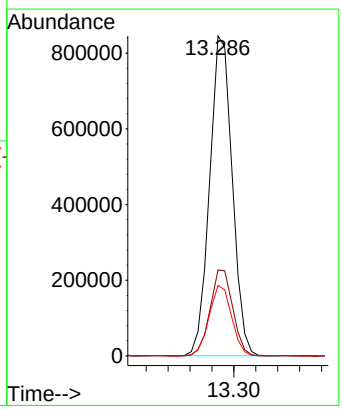
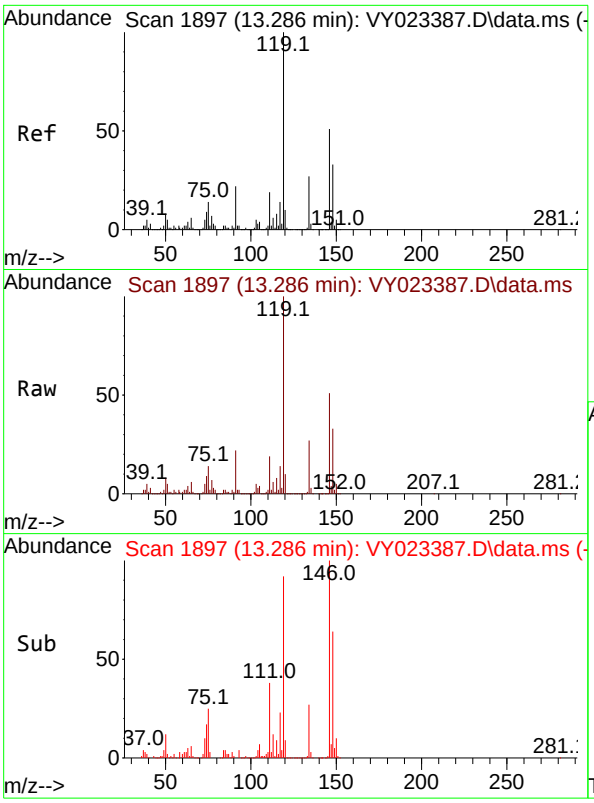



#86
p-Isopropyltoluene
Concen: 51.115 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:119 Resp: 1210644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 27.1 | 13.6 | 40.7 |
| 91 | 21.9 | 10.9 | 32.9 |

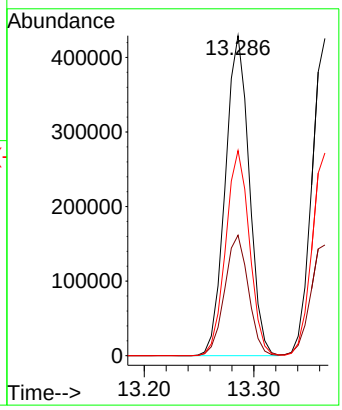





#87
1,3-Dichlorobenzene
Concen: 49.072 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:146 Resp: 64989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.4 | 18.7 | 56.1 |
| 148 | 63.9 | 31.9 | 95.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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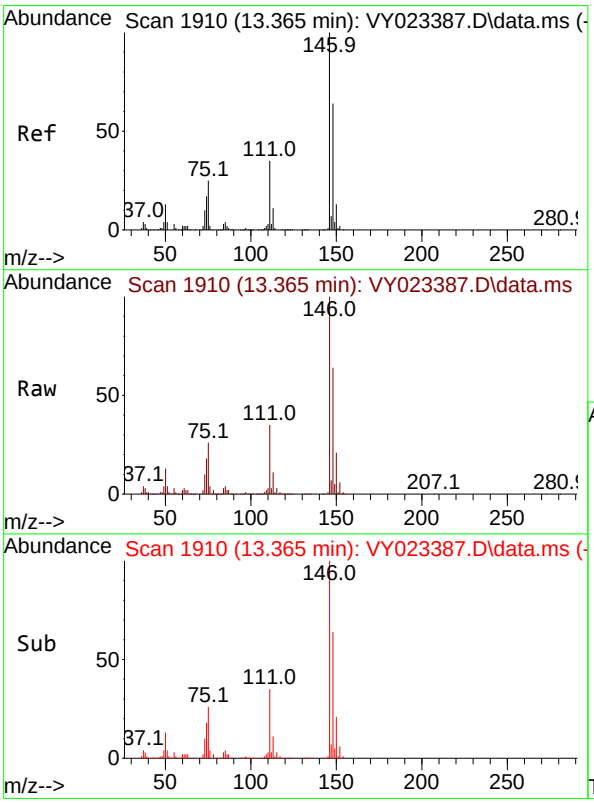
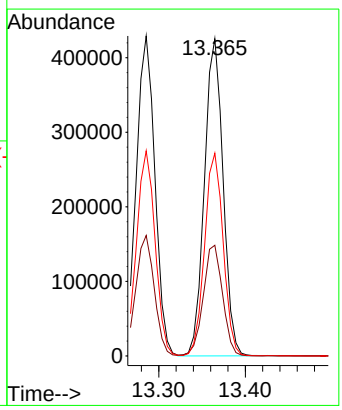
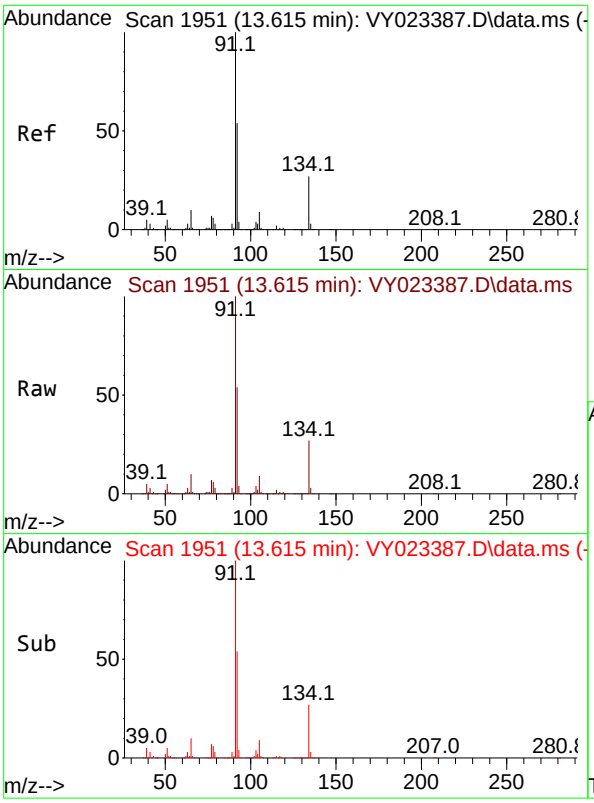



#88
1,4-Dichlorobenzene
Concen: 48.476 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:146 Resp: 636694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 36.0 | 18.0 | 54.0 |
| 148 | 63.8 | 31.9 | 95.7 |

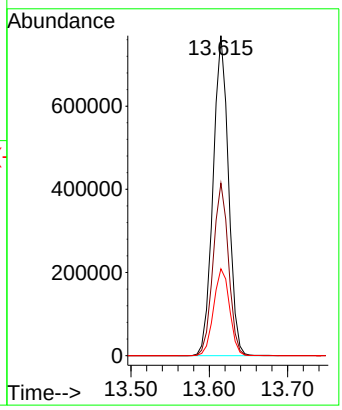





#89
n-Butylbenzene
Concen: 50.299 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 91 Resp: 105194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.9 | 27.0 | 80.8 |
| 134 | 28.1 | 14.1 | 42.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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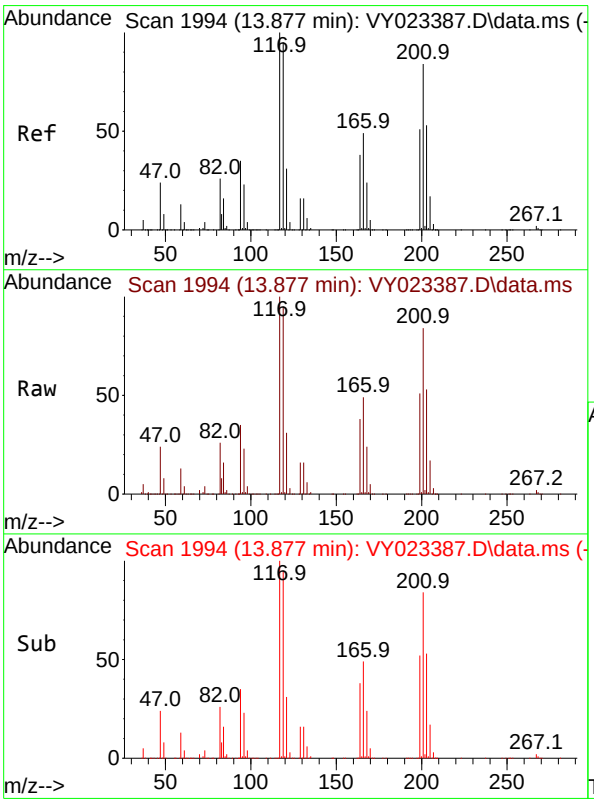
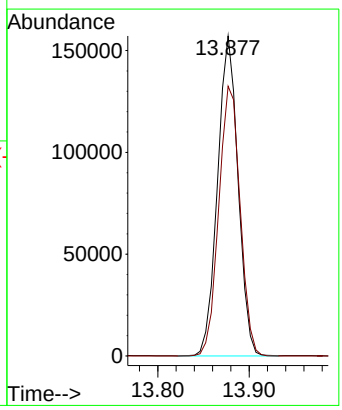
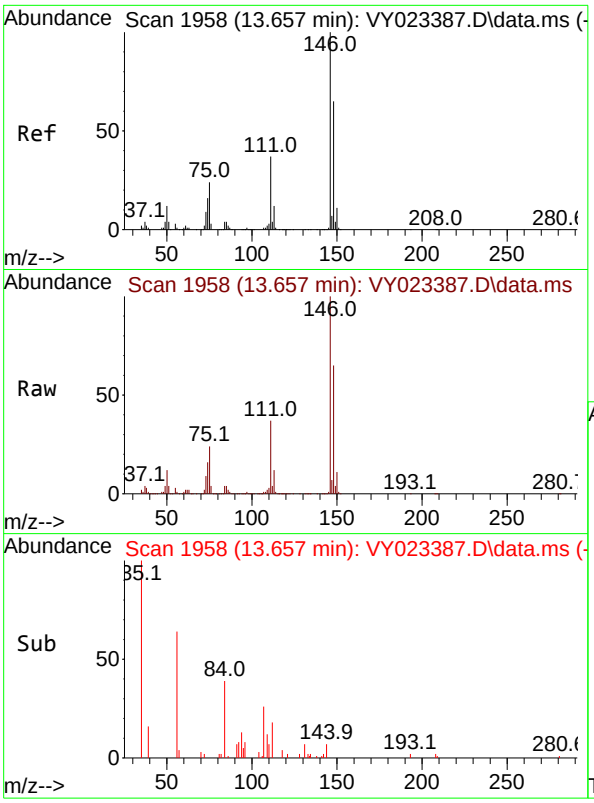



#90
Hexachloroethane
Concen: 47.664 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:117 Resp: 245108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 87.6 | 43.8 | 131.4 |

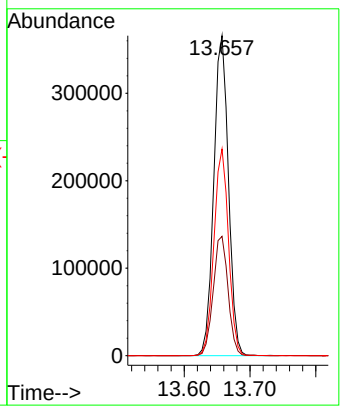





#91
1,2-Dichlorobenzene
Concen: 49.075 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:146 Resp: 56711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.0 | 19.0 | 57.0 |
| 148 | 64.2 | 32.1 | 96.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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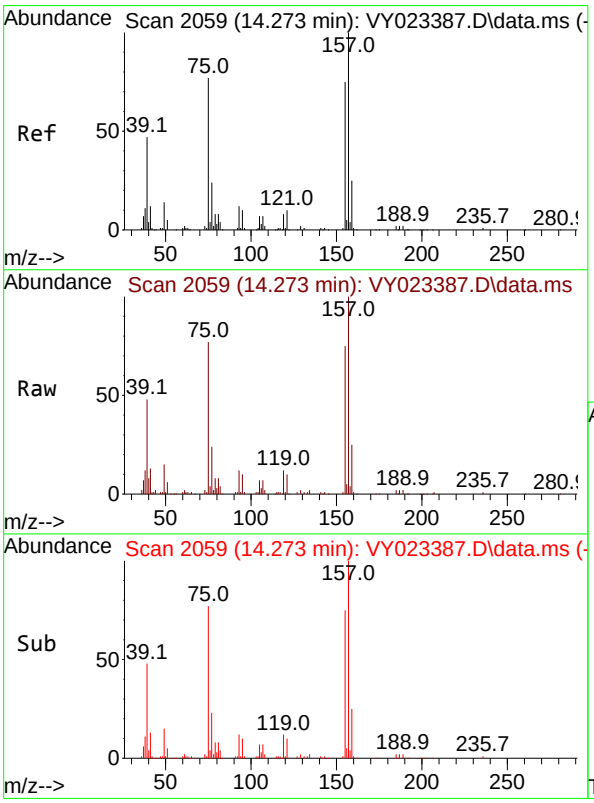
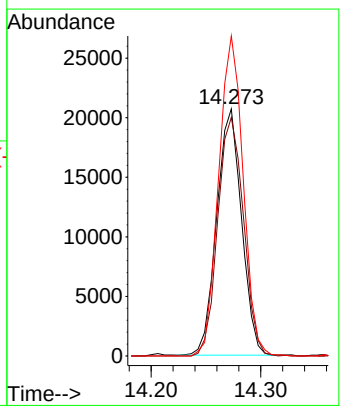
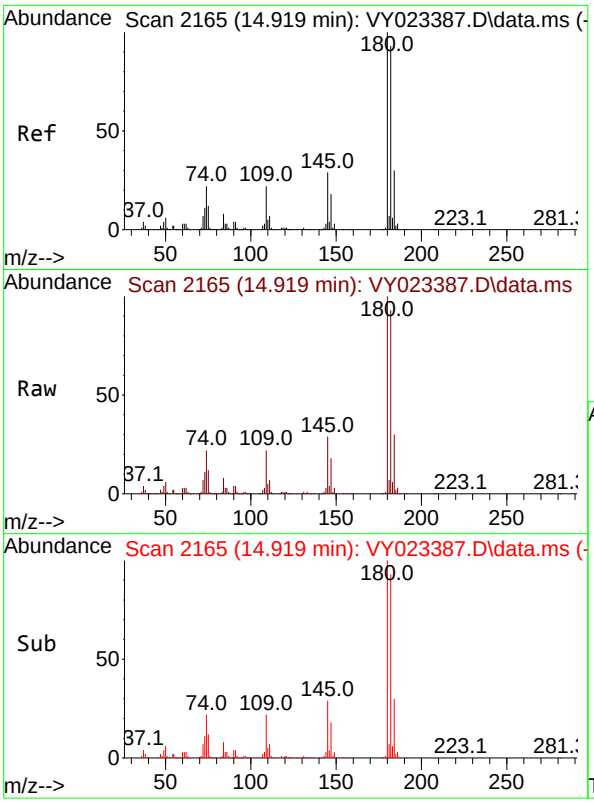



#92
1,2-Dibromo-3-Chloropropane
Concen: 47.184 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 75 Resp: 32585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 100.0 | 50.0 | 150.0 |
| 157 | 127.7 | 63.8 | 191.5 |

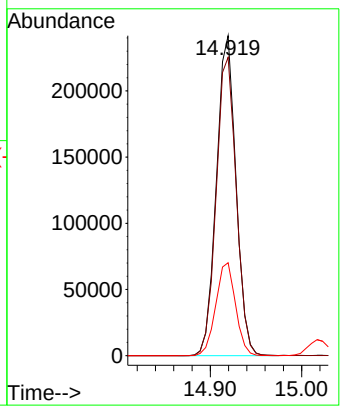





#93
1,2,4-Trichlorobenzene
Concen: 52.852 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:180 Resp: 35983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.7 | 47.9 | 143.6 |
| 145 | 29.4 | 14.7 | 44.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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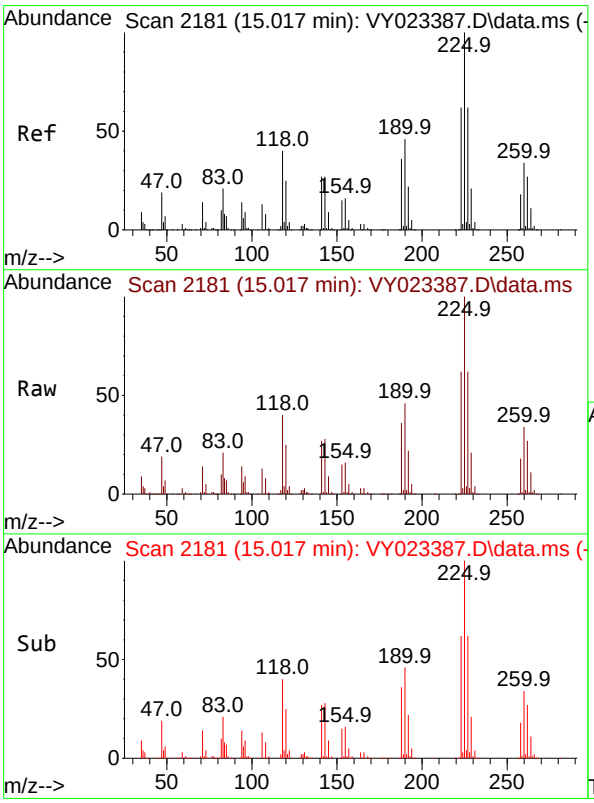
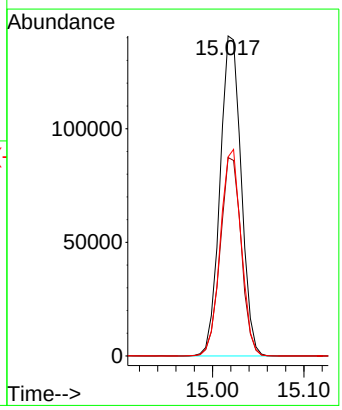
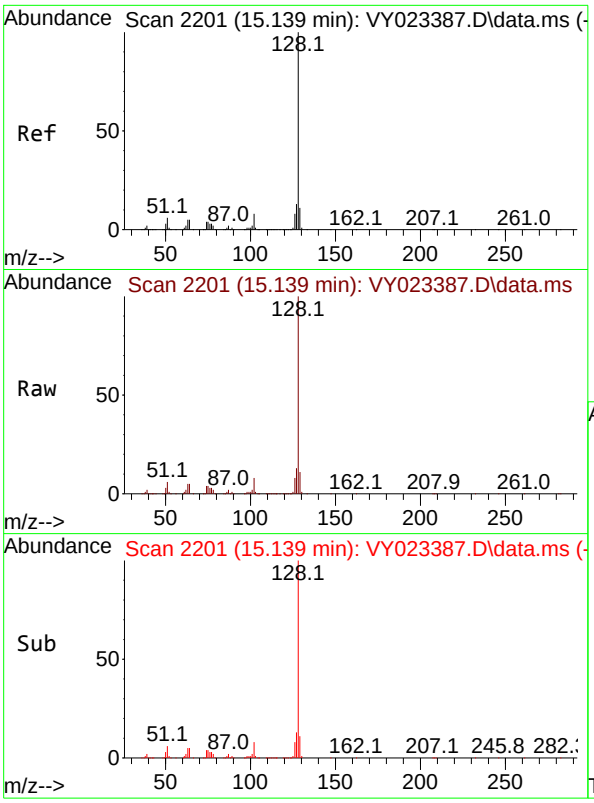



#94
Hexachlorobutadiene
Concen: 53.346 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:225 Resp: 226316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.5 | 30.8 | 92.3 |
| 227 | 63.8 | 31.9 | 95.7 |

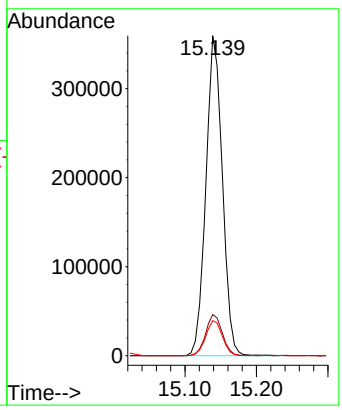





#95
Naphthalene
Concen: 53.012 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:128 Resp: 57504

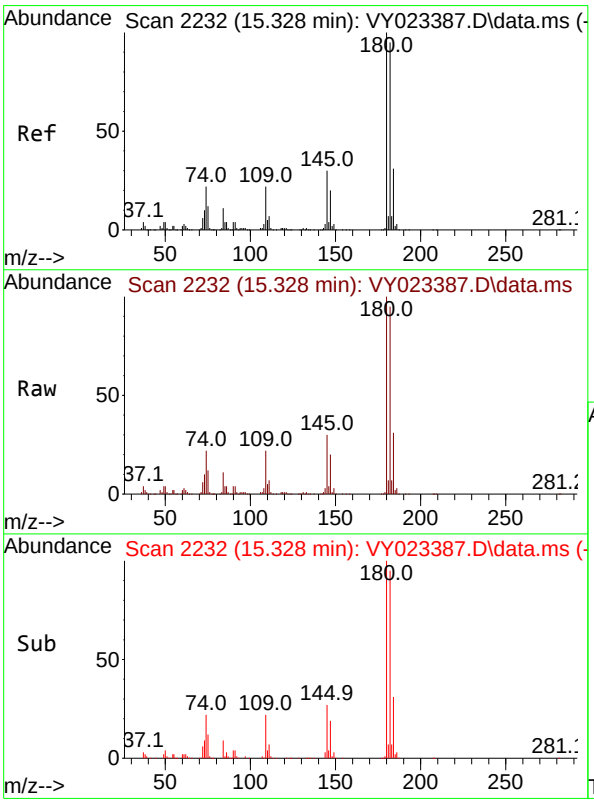
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.4 | 15.6 |
| 129 | 11.1 | 8.9 | 13.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

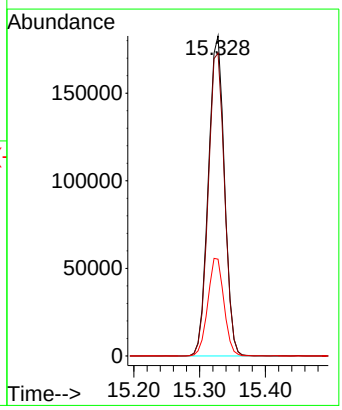
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025




#96
1,2,3-Trichlorobenzene
Concen: 52.628 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:180 Resp: 310831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.9 | 47.9 | 143.8 |
| 145 | 30.6 | 15.3 | 45.9 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023388.D
Acq On : 07 Oct 2025 12:09
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:44:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 595770 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 855682 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 764361 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 400285 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 467005 | 90.510 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 181.020%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 511478 | 98.497 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 197.000%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1919872 | 98.031 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 196.060%# | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 636435 | 103.007 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 206.020%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 368985 | 78.627 | ug/l | 96 |
| 3) Chloromethane | 2.068 | 50 | 521606 | 78.195 | ug/l | 96 |
| 4) Vinyl Chloride | 2.202 | 62 | 711235 | 84.438 | ug/l | 100 |
| 5) Bromomethane | 2.586 | 94 | 574957 | 83.210 | ug/l | 99 |
| 6) Chloroethane | 2.732 | 64 | 491625 | 85.968 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 1012851 | 93.610 | ug/l | 99 |
| 8) Diethyl Ether | 3.452 | 74 | 266779 | 94.266 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 511482 | 88.441 | ug/l | 100 |
| 10) Methyl Iodide | 4.001 | 142 | 651575 | 97.495 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 172718 | 568.898 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 508059 | 91.303 | ug/l | 96 |
| 13) Acrolein | 3.647 | 56 | 262636 | 510.573 | ug/l | 99 |
| 14) Allyl chloride | 4.378 | 41 | 637073 | 91.446 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 522511 | 471.296 | ug/l | 100 |
| 16) Acetone | 3.866 | 43 | 504700 | 435.004 | ug/l | 98 |
| 17) Carbon Disulfide | 4.104 | 76 | 1442005 | 83.061 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 316911 | 107.474 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 1300206 | 99.797 | ug/l | 97 |
| 20) Methylene Chloride | 4.610 | 84 | 552018 | 87.742 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 569334 | 91.999 | ug/l | 96 |
| 22) Diisopropyl ether | 6.018 | 45 | 1423347 | 92.133 | ug/l | 97 |
| 23) Vinyl Acetate | 5.957 | 43 | 3975052 | 468.098 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 911619 | 89.517 | ug/l | 99 |
| 25) 2-Butanone | 6.890 | 43 | 685693 | 478.154 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 833452 | 92.108 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 670773 | 95.557 | ug/l | 98 |
| 28) Bromochloromethane | 7.244 | 49 | 321657 | 81.418 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 415867 | 488.587 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 1003722 | 91.401 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 767083 | 85.293 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 910837 | 92.399 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 692477 | 94.516 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 280560 | 96.859 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 833170 | 97.894 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 947664 | 101.024 | ug/l | 99 |
| 40) Benzene | 8.079 | 78 | 2192645 | 96.000 | ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023388.D
Acq On : 07 Oct 2025 12:09
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 08 04:44:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 152239 | 101.200 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 554810 | 95.449 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 573653 | 101.815 | ug/l | | 99 |
| 44) Trichloroethene | 8.866 | 130 | 636149 | 99.245 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 485084 | 94.381 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 309964 | 98.596 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 769238 | 97.210 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 282582 | 107.476 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 77305 | 2374.722 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 1539324 | 533.386 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 1462927 | 100.905 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 710475 | 104.537 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 822967 | 101.302 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 417623 | 99.875 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.438 | 69 | 549366 | 114.077 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 670961 | 99.140 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 1240361 | 588.731 | ug/l | | 99 |
| 59) 2-Hexanone | 10.755 | 43 | 1081568 | 541.284 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 593878 | 104.133 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 406293 | 103.280 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 767753 | 100.406 | ug/l | | 99 |
| 65) Chlorobenzene | 11.438 | 112 | 1655143 | 99.649 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 586878 | 100.470 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 2788252 | 102.856 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.627 | 106 | 2243033 | 206.437 | ug/l | | 100 |
| 69) o-Xylene | 11.950 | 106 | 1072335 | 106.611 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 1782757 | 107.344 | ug/l | | 100 |
| 71) Bromoform | 12.127 | 173 | 373208 | 106.727 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.249 | 105 | 2741698 | 102.825 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 532255 | 106.818 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 434720 | 97.735 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 364622m | 92.345 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 701741 | 102.545 | ug/l | | 100 |
| 78) n-propylbenzene | 12.590 | 91 | 3165894 | 100.958 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 1800124 | 99.426 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 2219080 | 102.374 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 148302 | 101.273 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 1854165 | 98.060 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 2028198 | 102.684 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 2227197 | 103.853 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 2932949 | 102.530 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 2548220 | 105.408 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 1361716 | 100.735 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 1323618 | 98.734 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.615 | 91 | 2223744 | 104.174 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 514746 | 98.069 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 1193043 | 101.146 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 70107 | 99.458 | ug/l | | 94 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 806328 | 116.031 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 470072 | 108.557 | ug/l | | 99 |
| 95) Naphthalene | 15.139 | 128 | 1378291 | 124.485 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 693477 | 115.034 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023388.D
Acq On : 07 Oct 2025 12:09
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:44:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 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

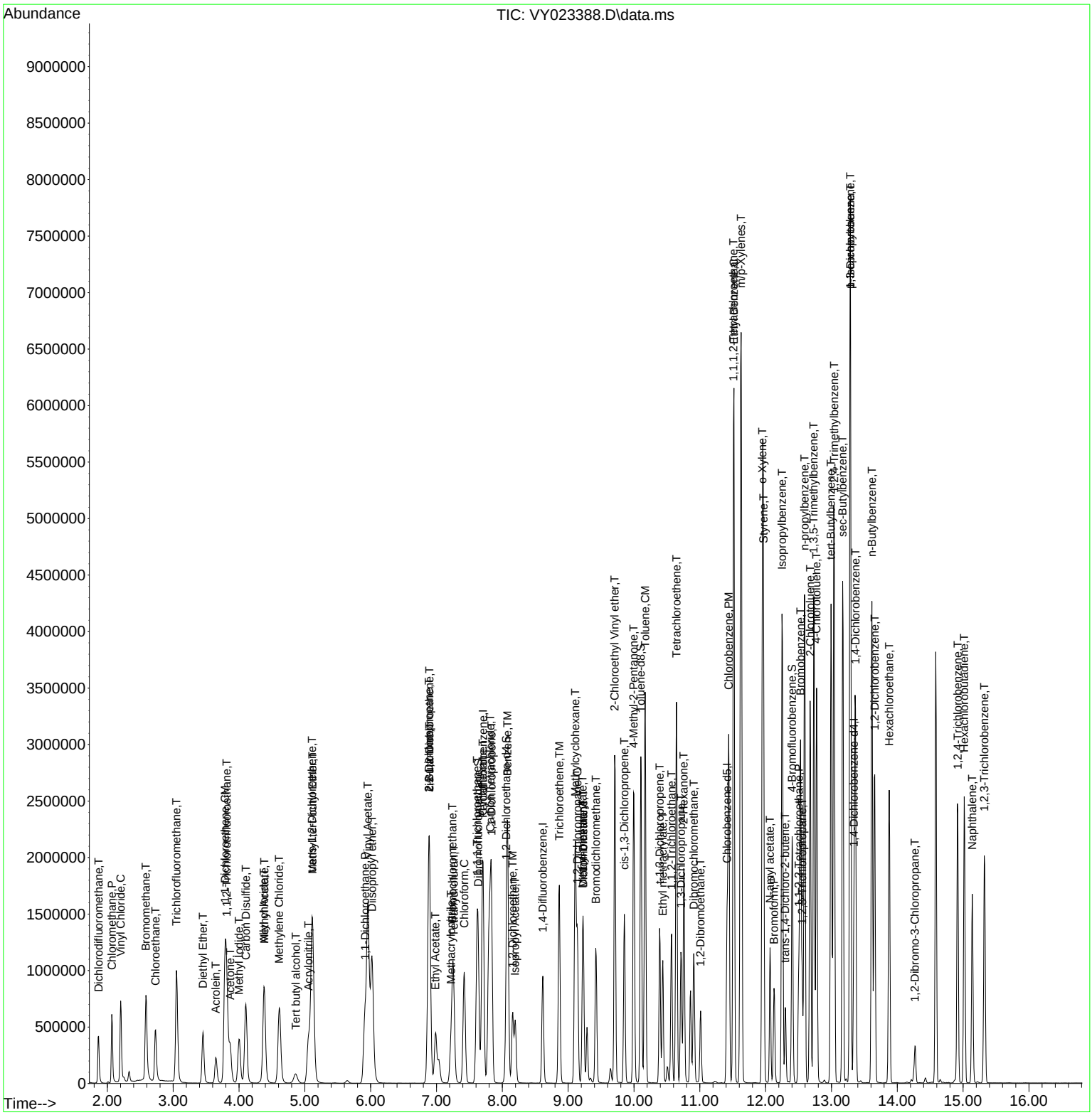
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023388.D
Acq On : 07 Oct 2025 12:09
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

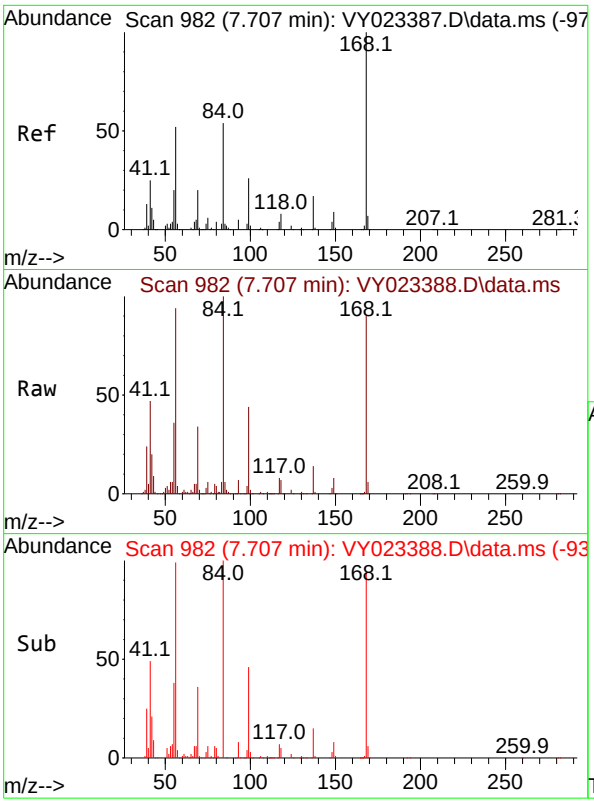
Quant Time: Oct 08 04:44:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

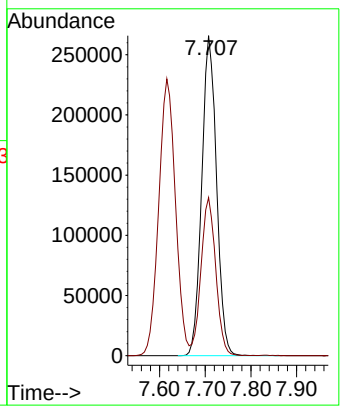





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:168 Resp: 59577

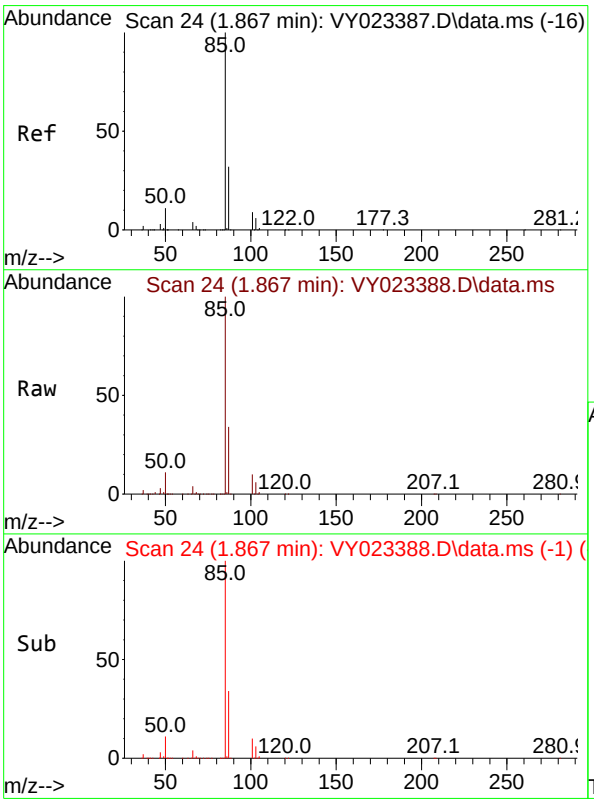
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 49.3 | 39.7 | 59.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

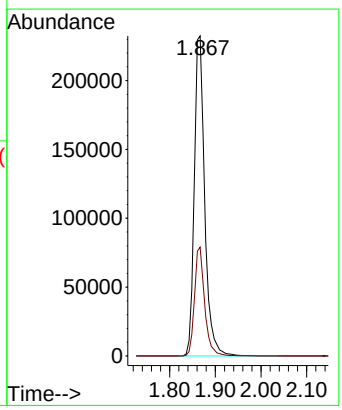
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

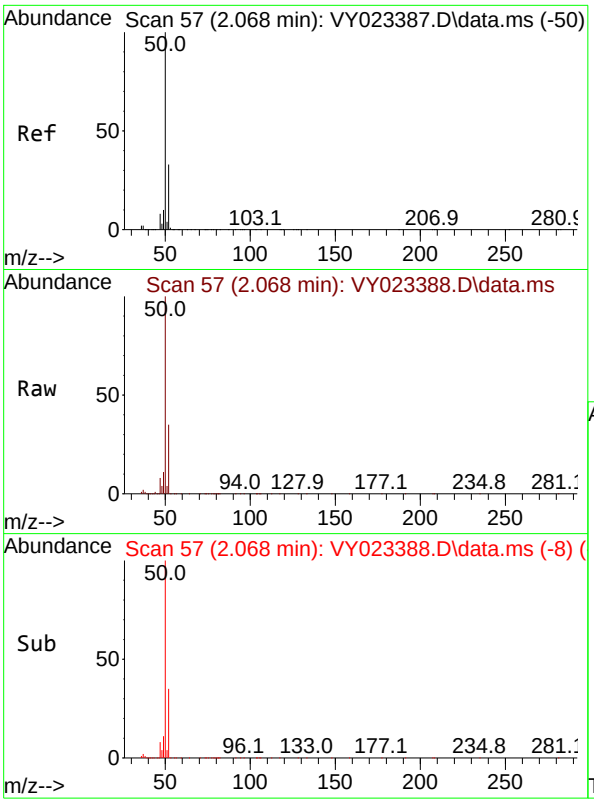



#2
Dichlorodifluoromethane
Concen: 78.627 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 85 Resp: 368985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.0 | 16.0 | 47.9 |

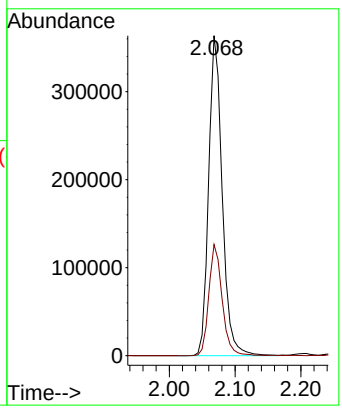





#3
Chloromethane
Concen: 78.195 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 50 Resp: 52160

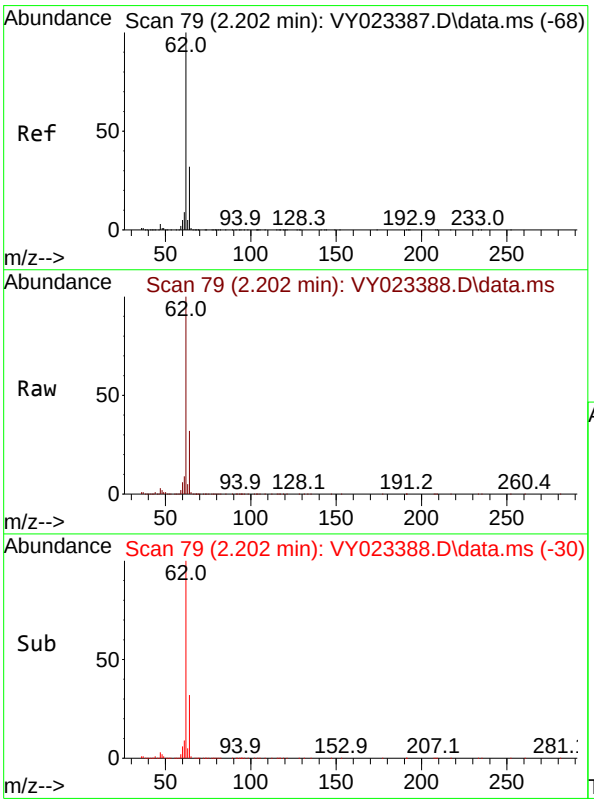
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.7 | 26.2 | 39.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

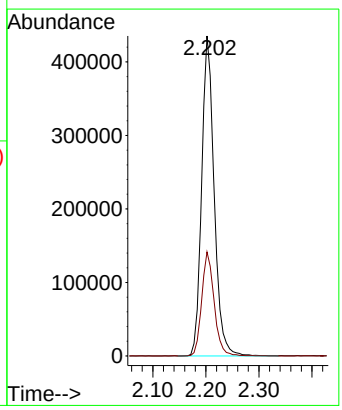
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

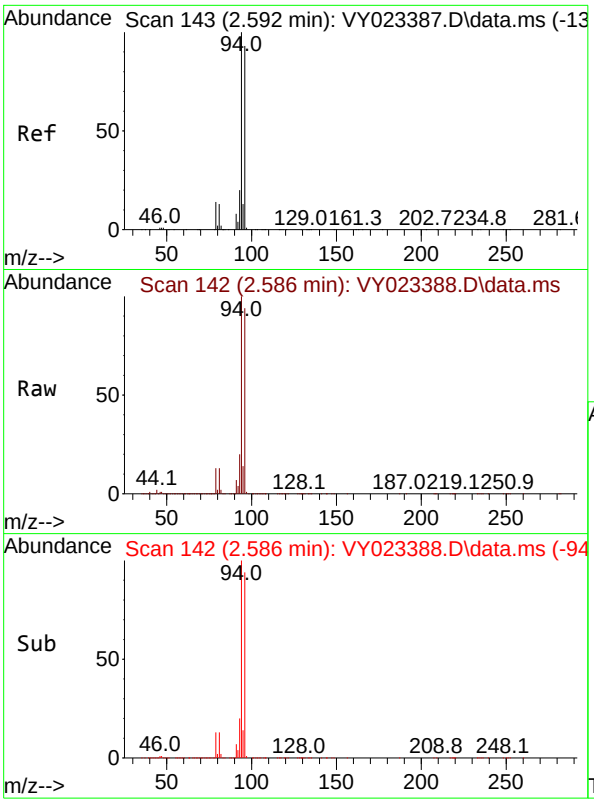



#4
Vinyl Chloride
Concen: 84.438 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 62 Resp: 711235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.5 | 25.8 | 38.8 |

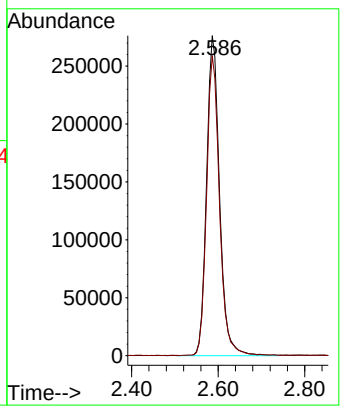





#5
Bromomethane
Concen: 83.210 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 94 Resp: 57495

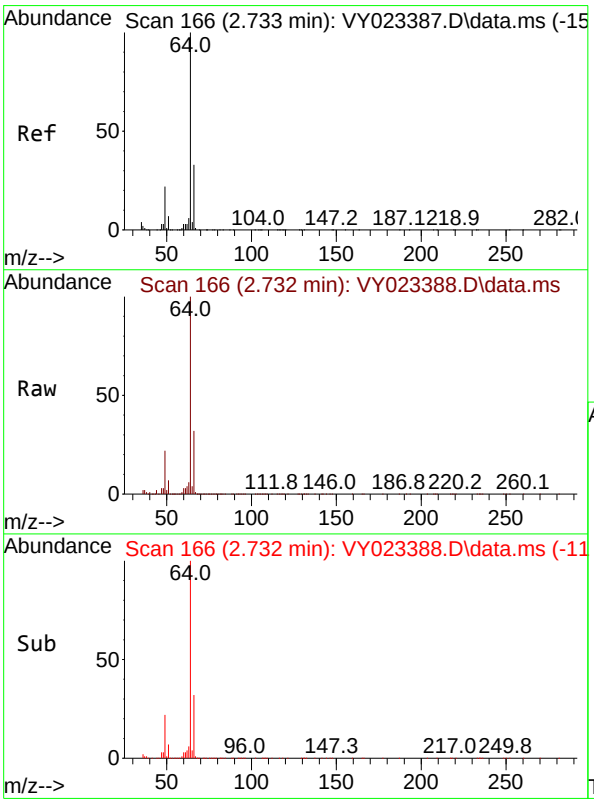
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.7 | 74.5 | 111.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

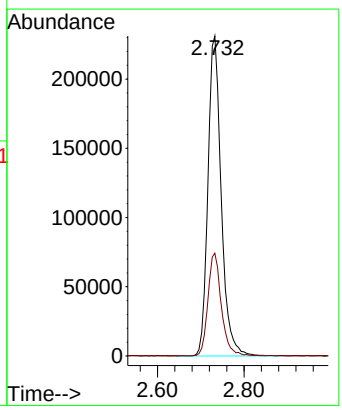
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

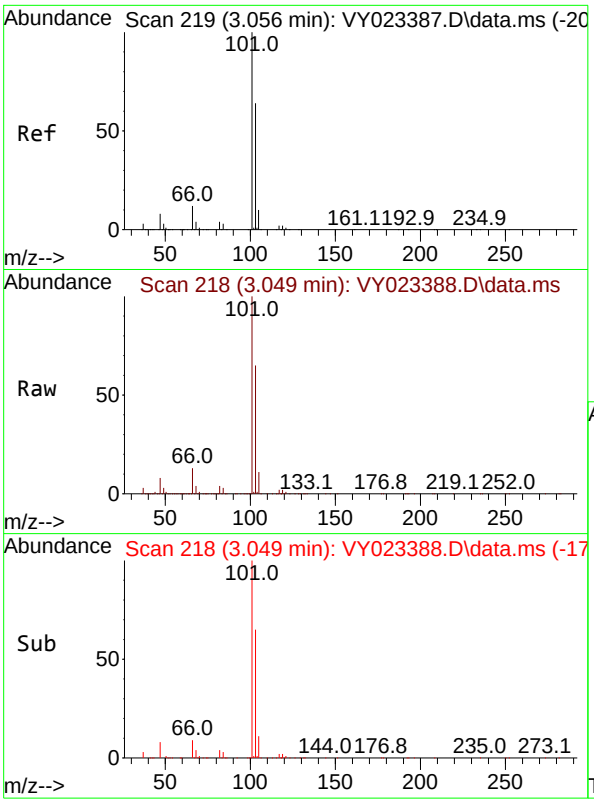



#6
Chloroethane
Concen: 85.968 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 64 Resp: 491625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.0 | 26.2 | 39.4 |






#7
Trichlorofluoromethane
Concen: 93.610 ug/l
RT: 3.049 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

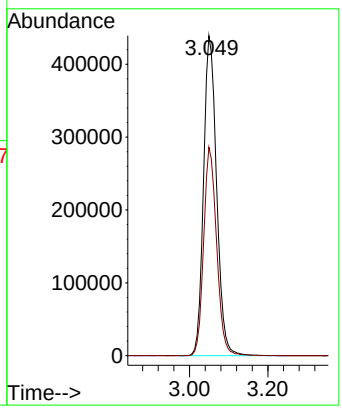
Tgt Ion:101 Resp: 101285

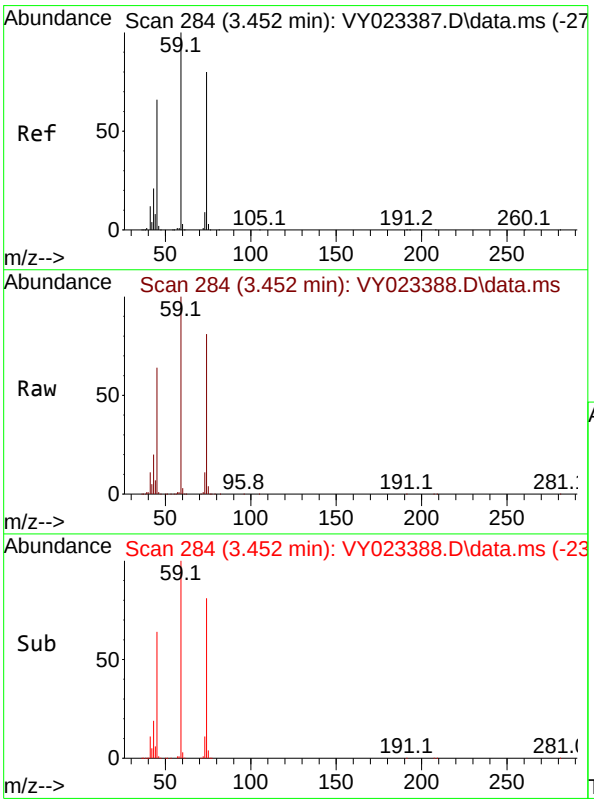
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.2 | 51.3 | 76.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

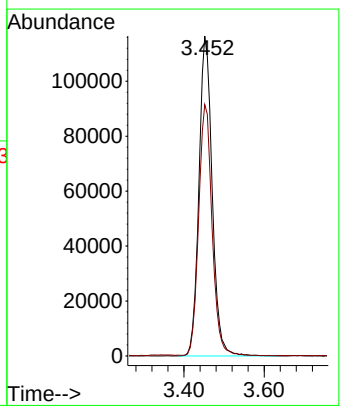


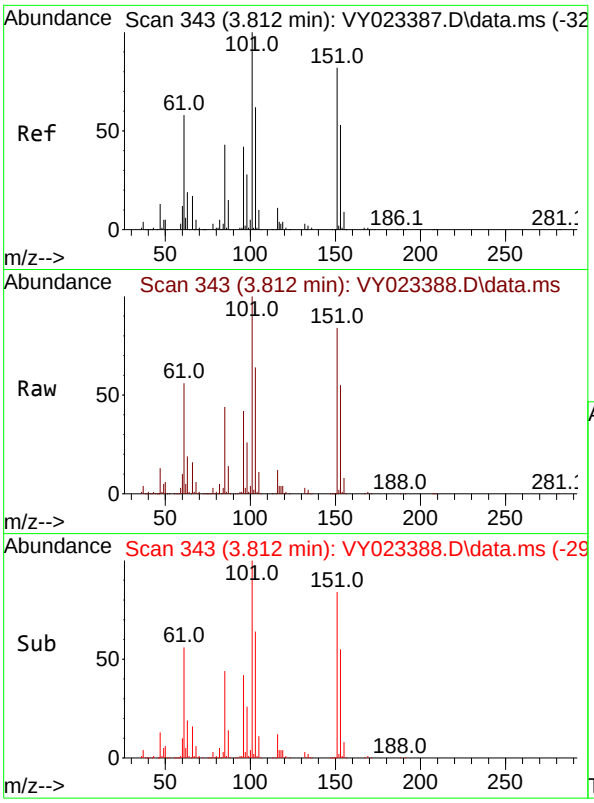




#8
Diethyl Ether
Concen: 94.266 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 74 Resp: 266779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 79.9 | 39.9 | 119.7 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 88.441 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

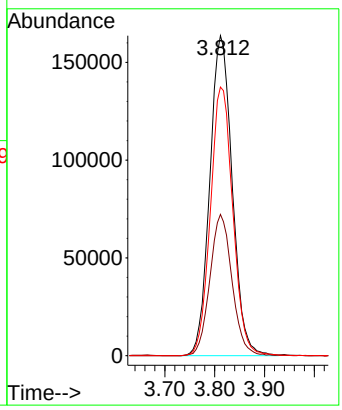
Tgt Ion:101 Resp: 51148

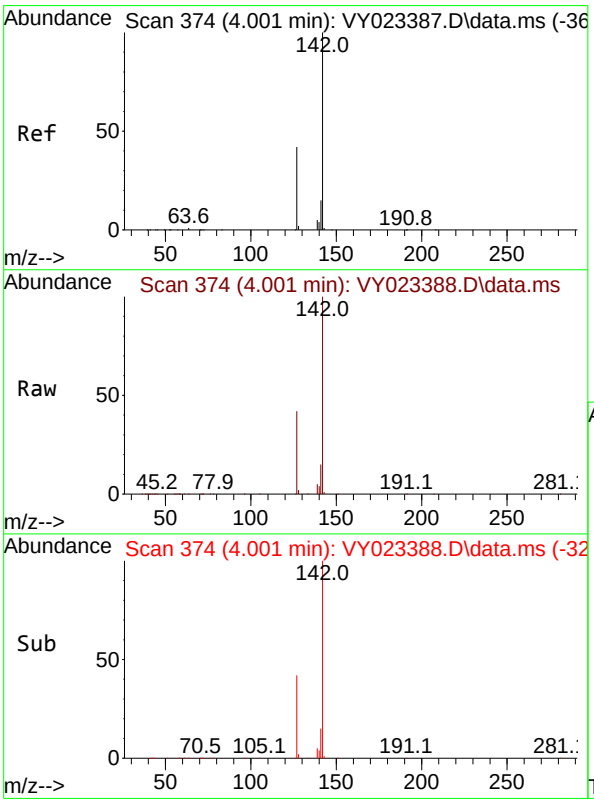
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.6 | 34.6 | 51.8 |
| 151 | 84.1 | 67.0 | 100.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

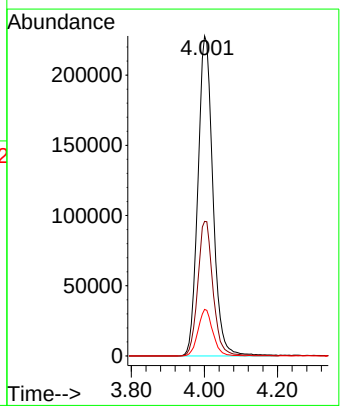


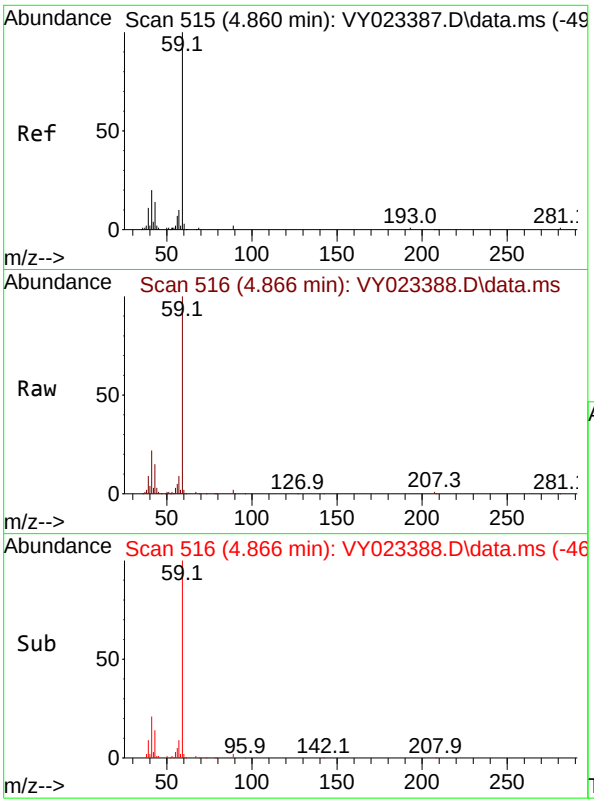




#10
Methyl Iodide
Concen: 97.495 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:142 Resp: 651575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 42.7 | 34.8 | 52.2 |
| 141 | 14.3 | 11.6 | 17.4 |

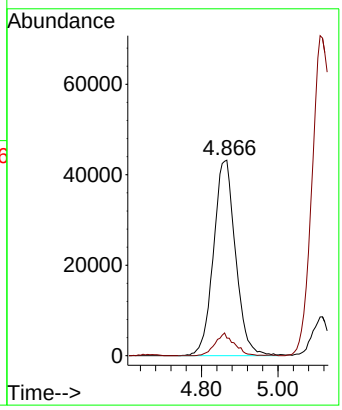





#11
Tert butyl alcohol
Concen: 568.898 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 59 Resp: 17271

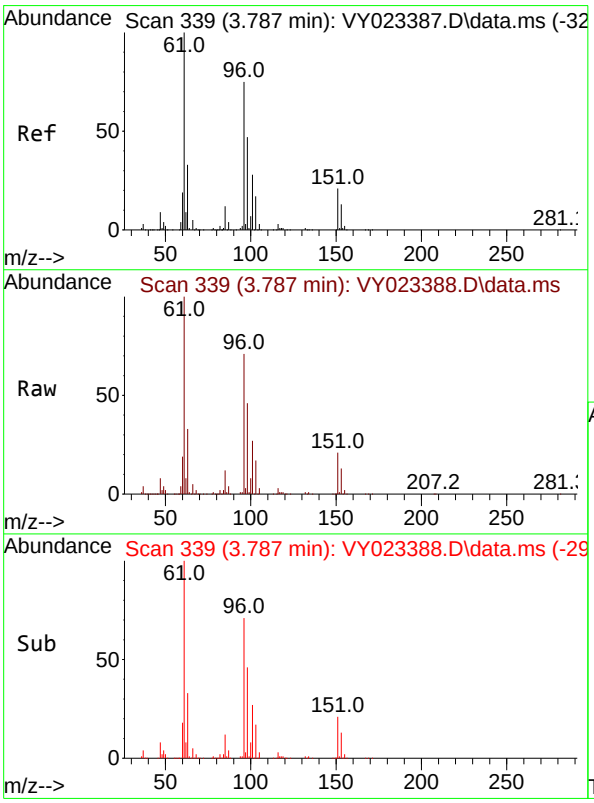
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.1 | 8.3 | 12.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

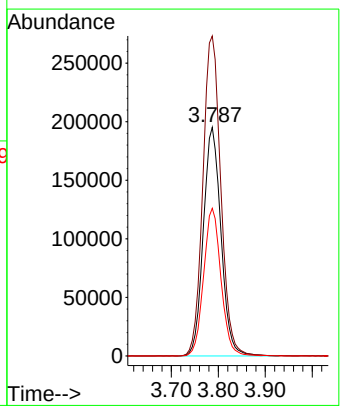
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

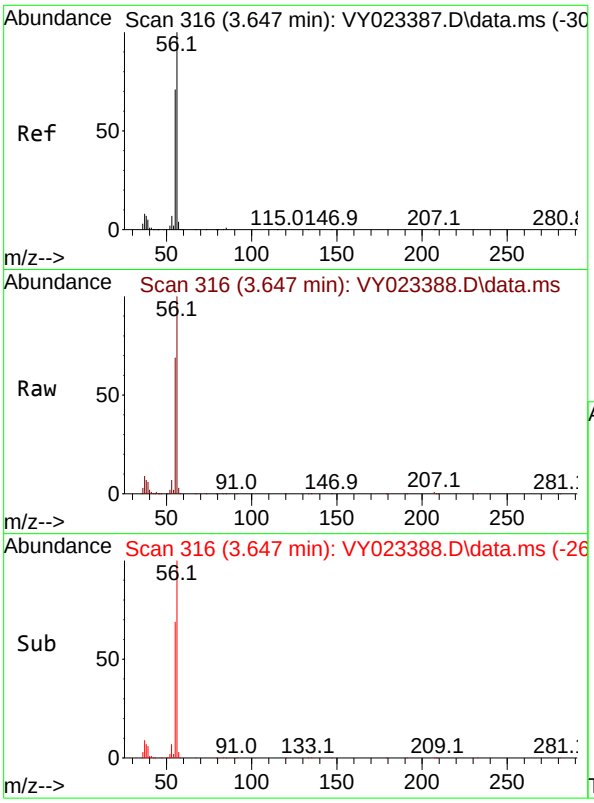



#12
1,1-Dichloroethene
Concen: 91.303 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 96 Resp: 508059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.9 | 106.7 | 160.1 |
| 98 | 64.6 | 50.2 | 75.4 |

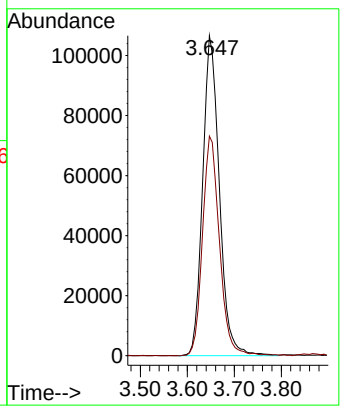





#13
Acrolein
Concen: 510.573 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 56 Resp: 26263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.6 | 56.1 | 84.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
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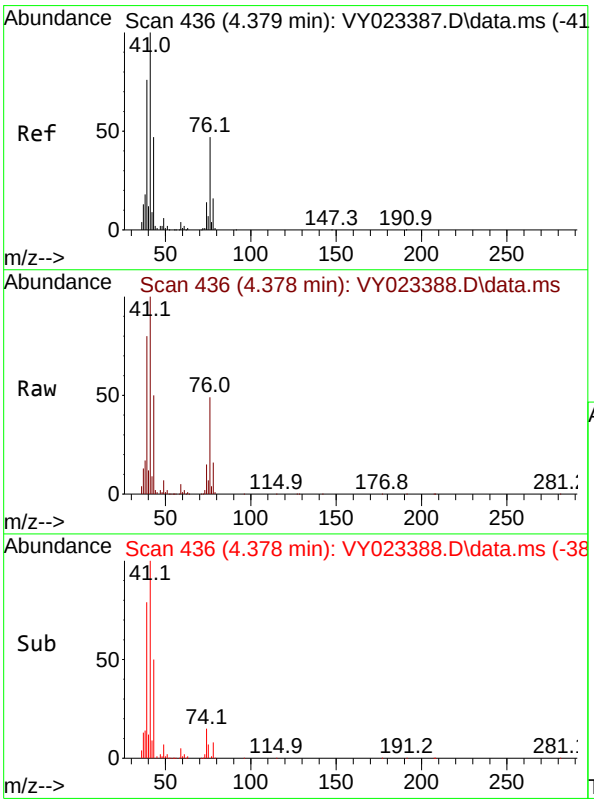
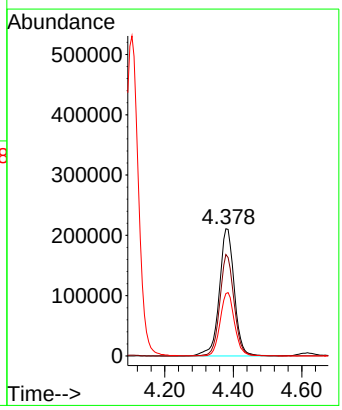
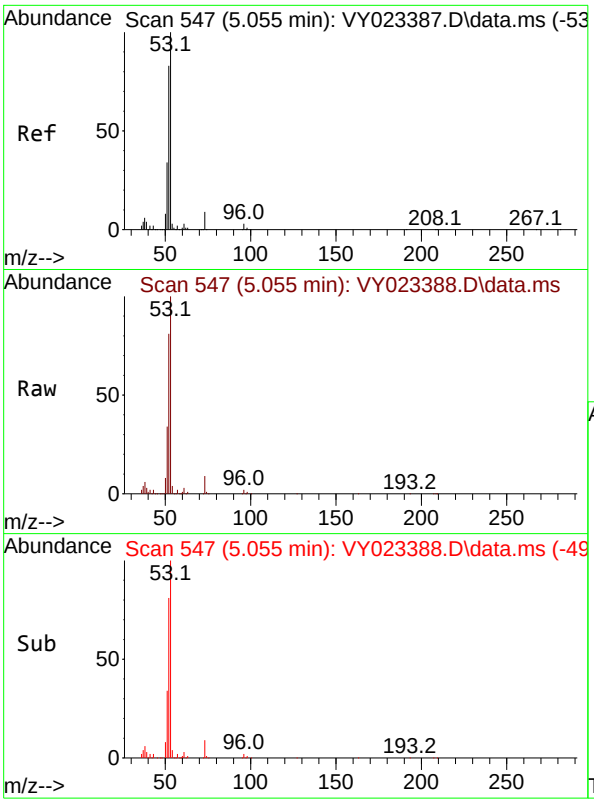



#14
Allyl chloride
Concen: 91.446 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 41 Resp: 637073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 75.8 | 59.9 | 89.9 |
| 76 | 47.5 | 38.0 | 57.0 |

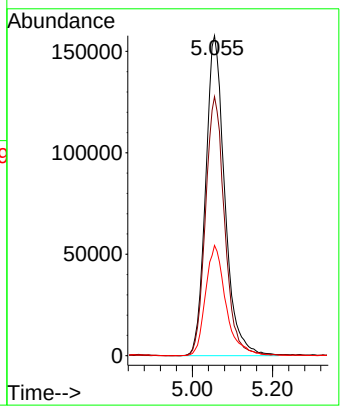





#15
Acrylonitrile
Concen: 471.296 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 53 Resp: 52251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.2 | 64.6 | 97.0 |
| 51 | 36.7 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
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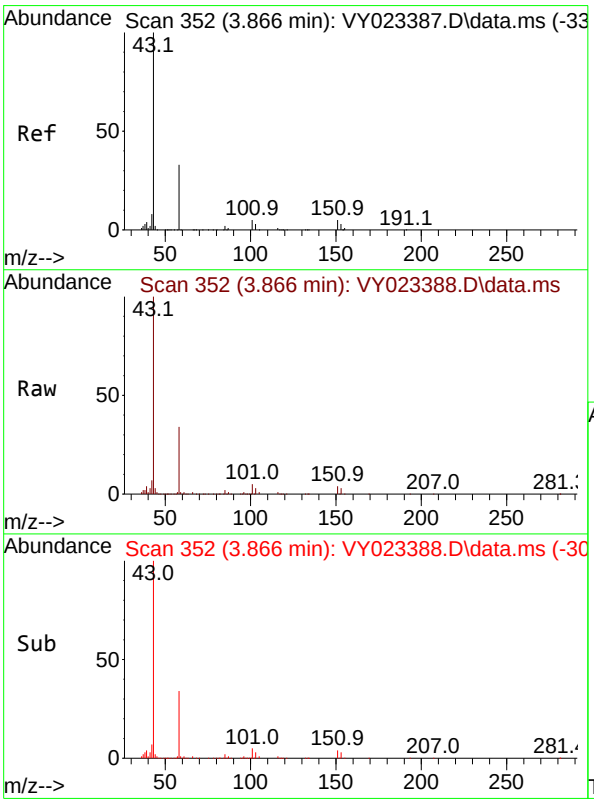
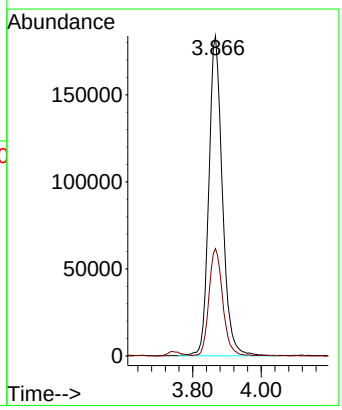
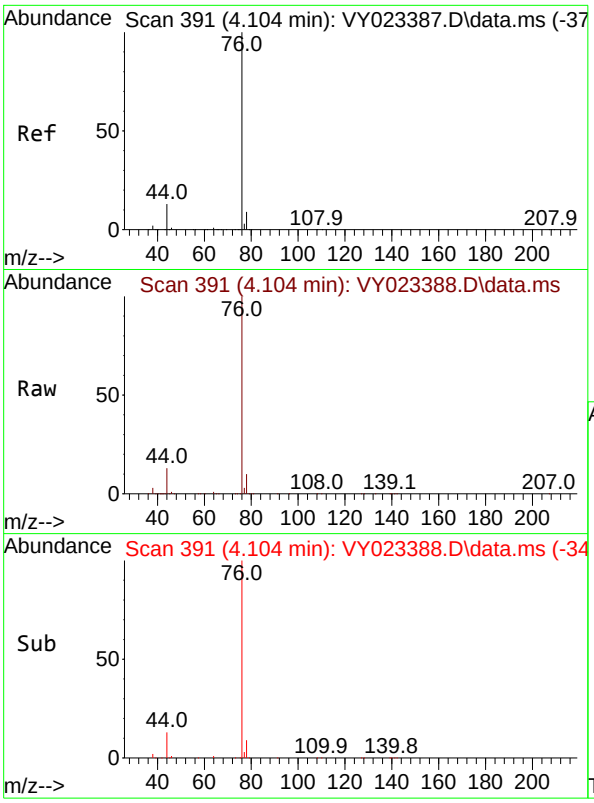



#16
Acetone
Concen: 435.004 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 504700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.5 | 27.7 | 41.5 |

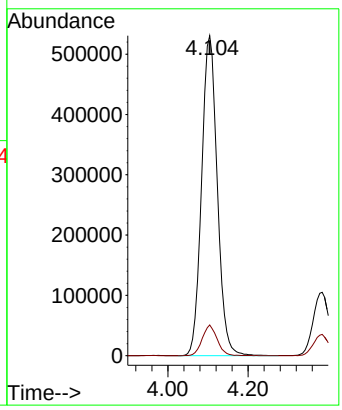





#17
Carbon Disulfide
Concen: 83.061 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 76 Resp: 144200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.6 | 7.3 | 10.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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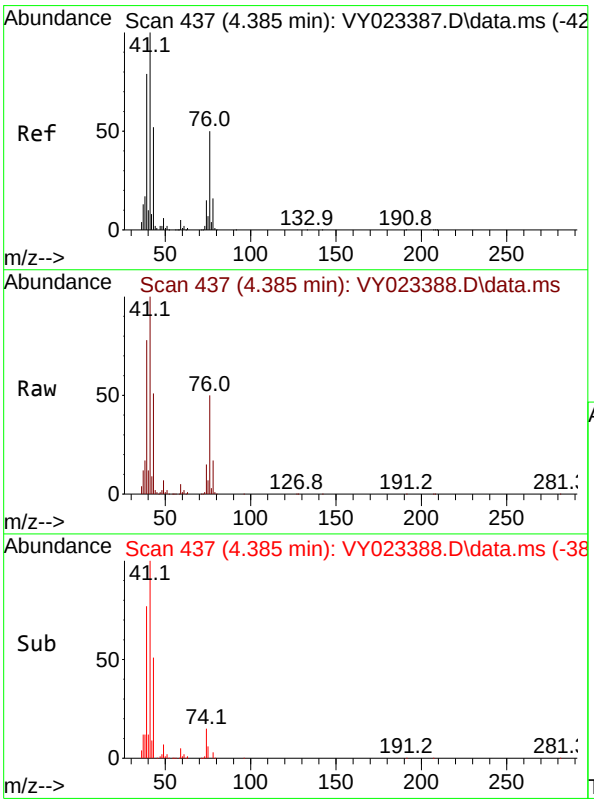
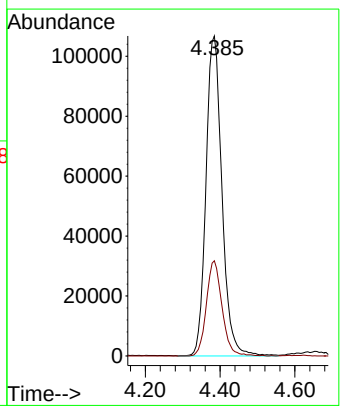
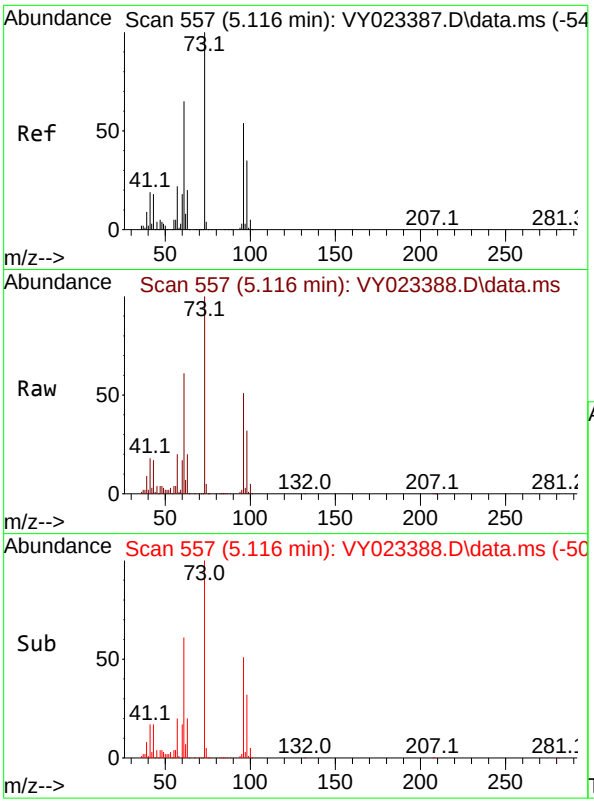



#18
Methyl Acetate
Concen: 107.474 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 316911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 29.1 | 24.2 | 36.4 |

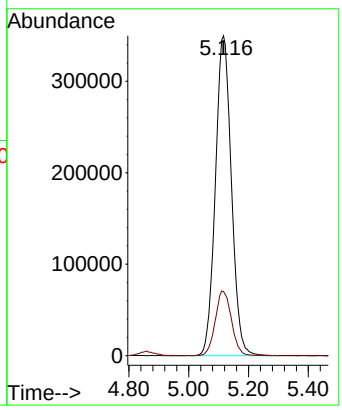





#19
Methyl tert-butyl Ether
Concen: 99.797 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 73 Resp: 130020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.1 | 17.4 | 26.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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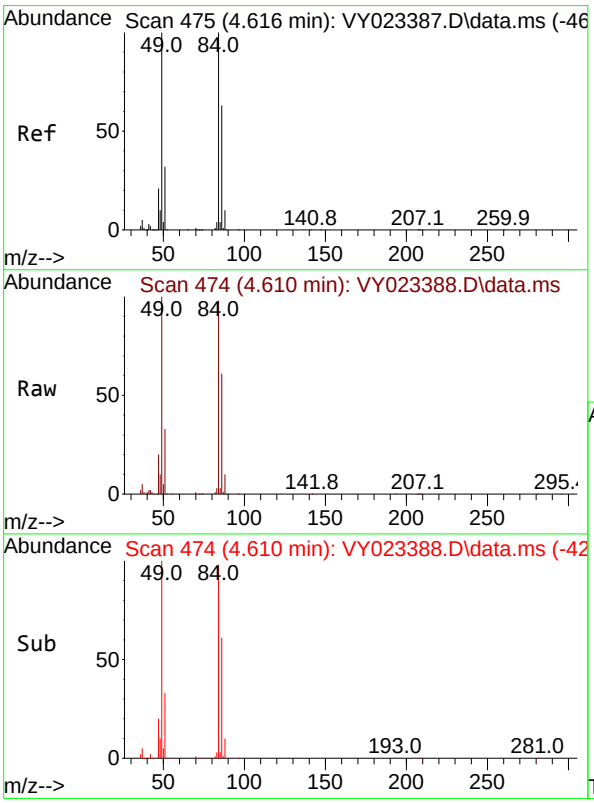
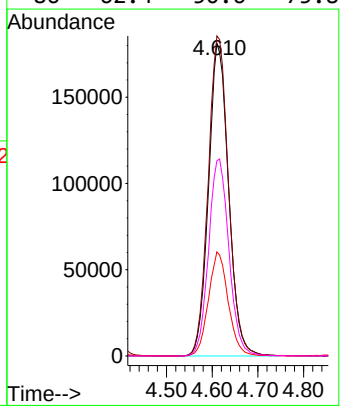
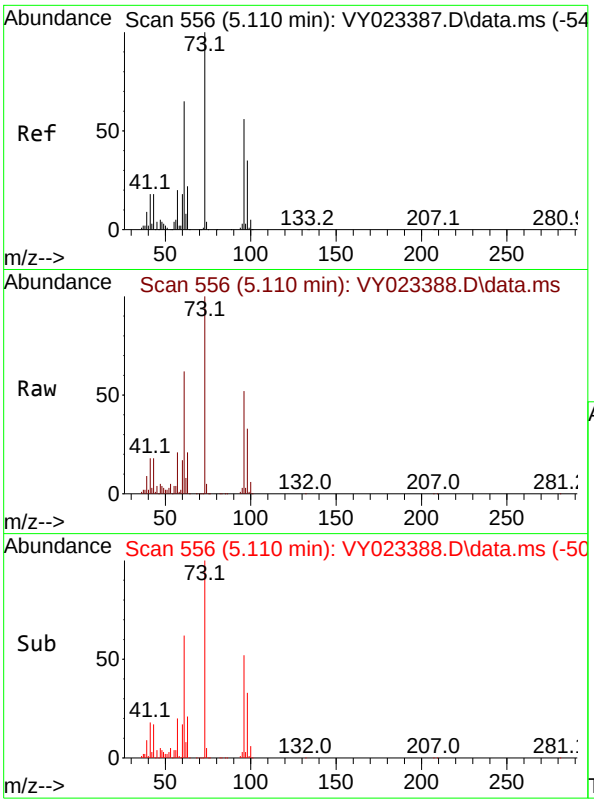



#20
Methylene Chloride
Concen: 87.742 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 84 Resp: 552018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 102.4 | 80.2 | 120.4 |
| 51 | 33.3 | 25.9 | 38.9 |
| 86 | 62.4 | 50.6 | 75.8 |

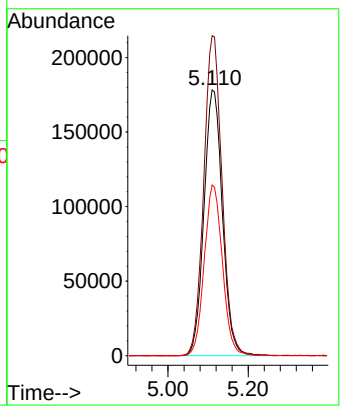





#21
trans-1,2-Dichloroethene
Concen: 91.999 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 96 Resp: 56933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 120.4 | 92.7 | 139.1 |
| 98 | 64.2 | 49.7 | 74.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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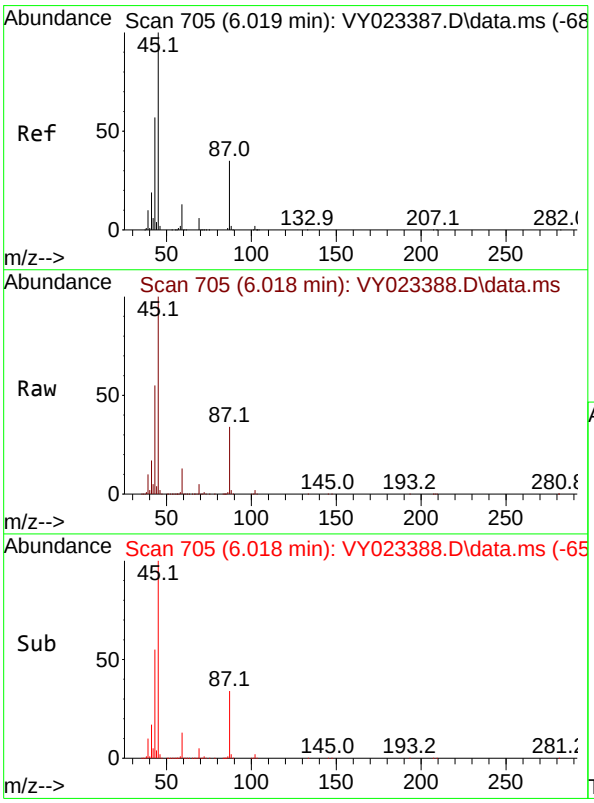
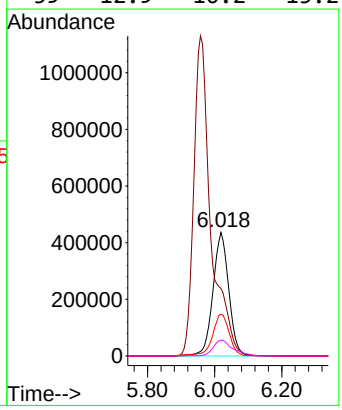
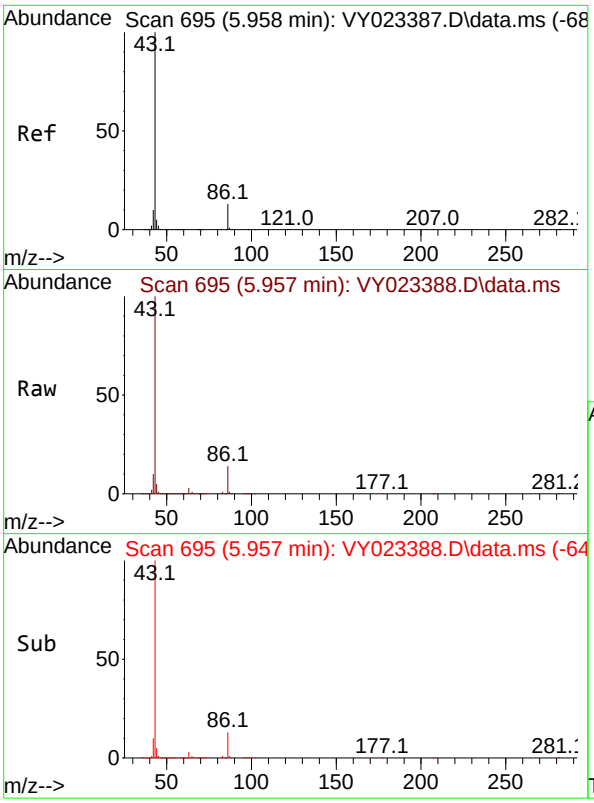



#22
Diisopropyl ether
Concen: 92.133 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 45 Resp: 1423347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 54.4 | 45.6 | 68.4 |
| 87 | 33.8 | 28.1 | 42.1 |
| 59 | 12.9 | 10.2 | 15.2 |

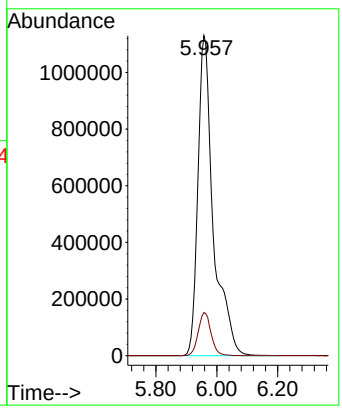





#23
Vinyl Acetate
Concen: 468.098 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 397505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 13.5 | 10.6 | 15.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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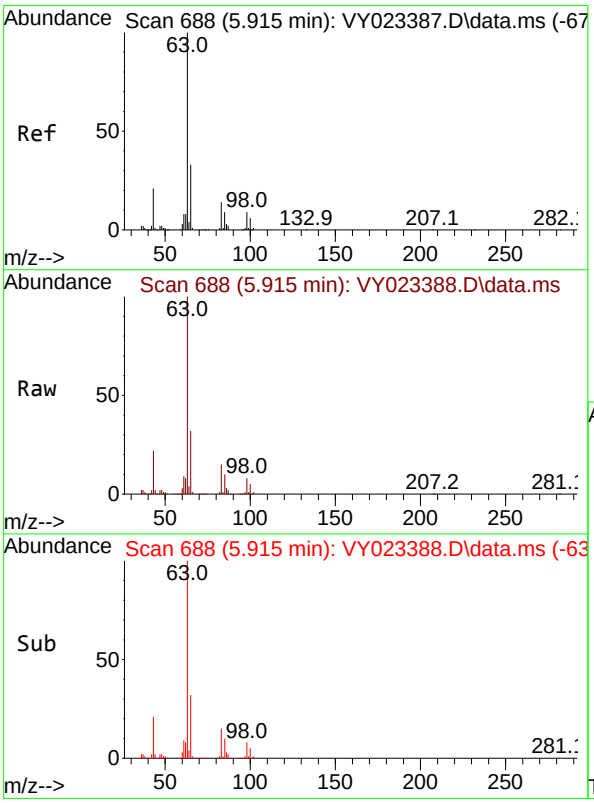
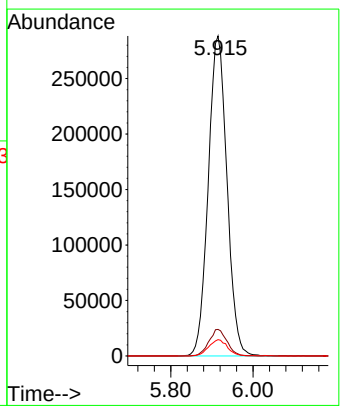
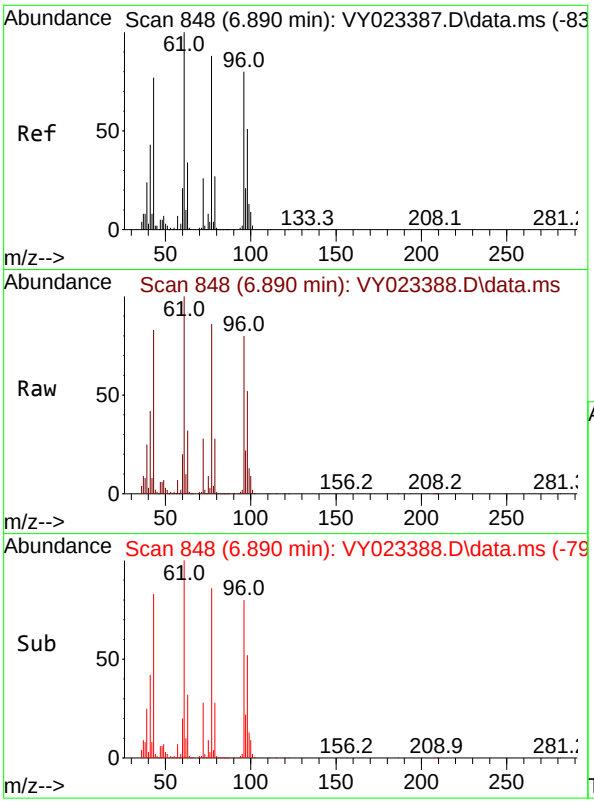



#24
1,1-Dichloroethane
Concen: 89.517 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 63 Resp: 911619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.3 | 4.3 | 13.1 |
| 100 | 5.1 | 2.8 | 8.4 |






#25
2-Butanone
Concen: 478.154 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 68569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 33.9 | 27.4 | 41.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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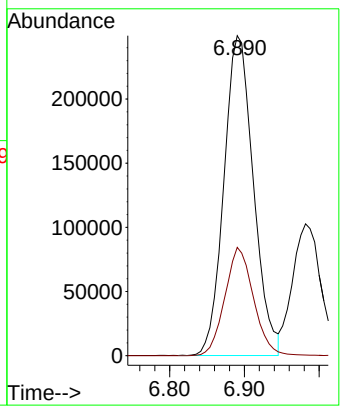
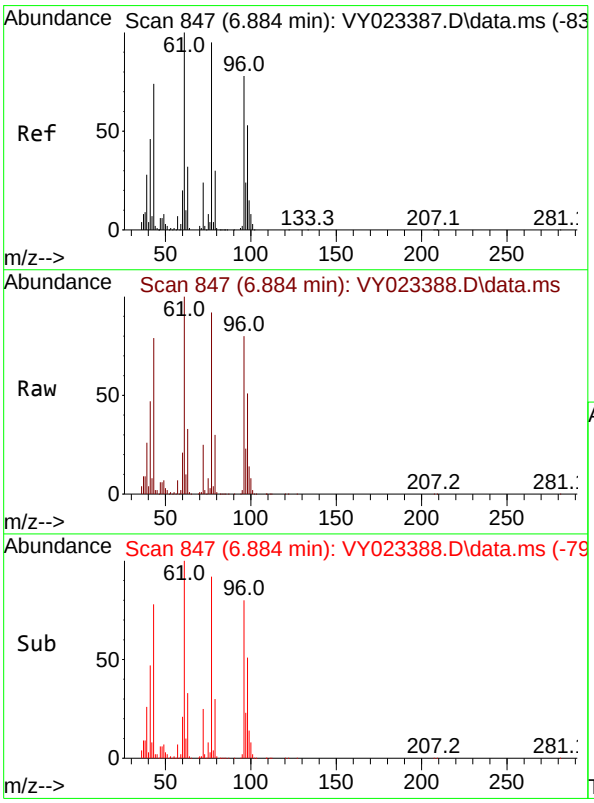
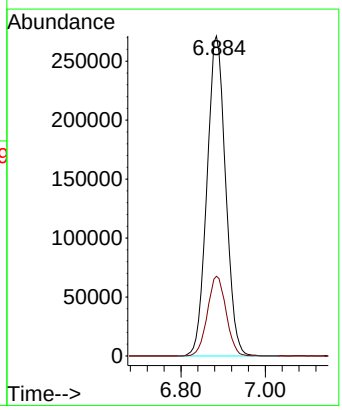


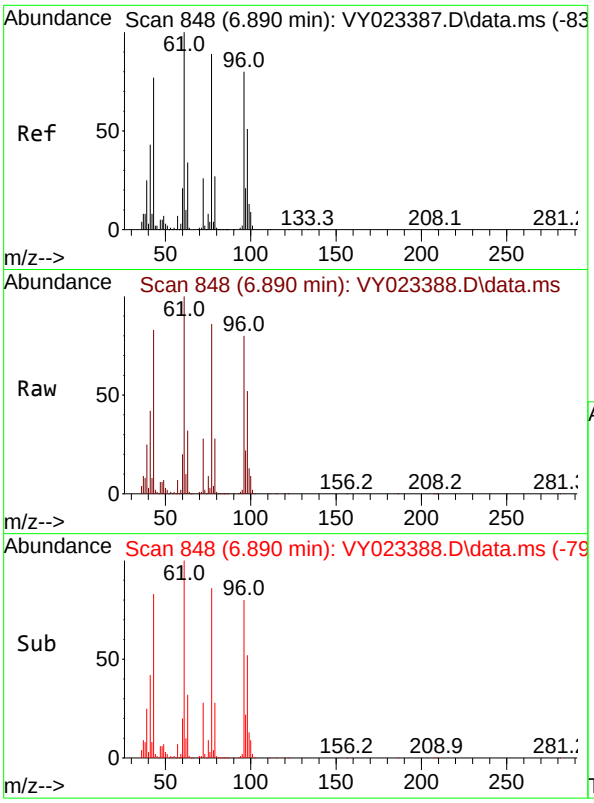




#26
2,2-Dichloropropane
Concen: 92.108 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 77 Resp: 833452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 25.0 | 12.1 | 36.3 |






#27
cis-1,2-Dichloroethene
Concen: 95.557 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

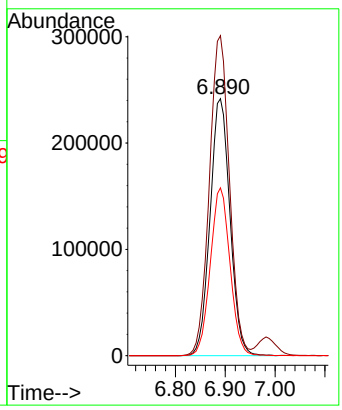
Tgt Ion: 96 Resp: 67077

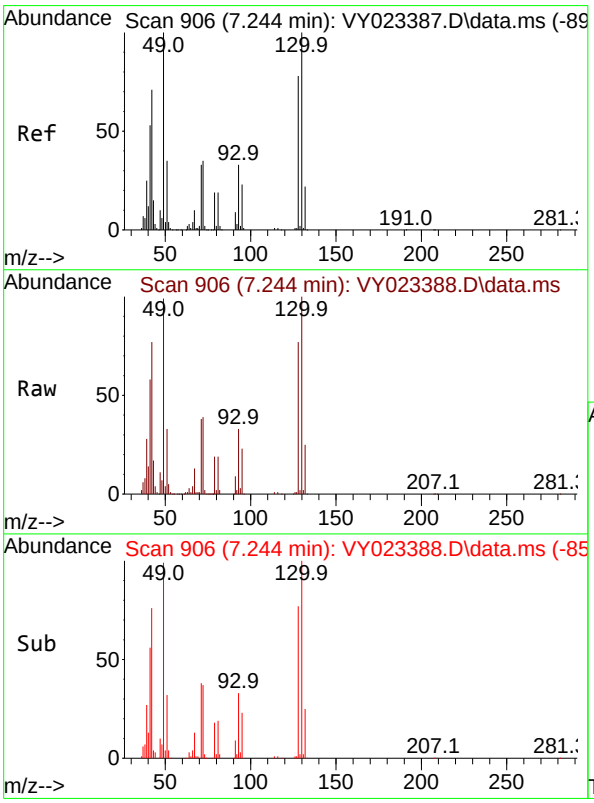
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 125.9 | 0.0 | 258.2 |
| 98 | 64.7 | 0.0 | 132.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

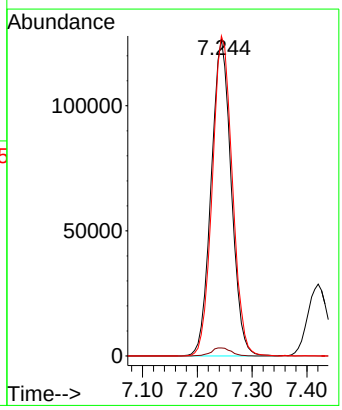


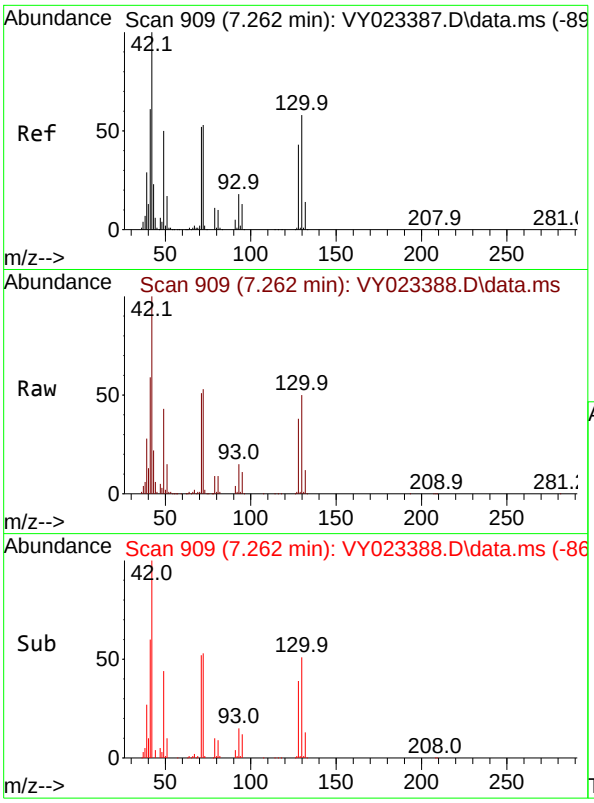




#28
Bromochloromethane
Concen: 81.418 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 49 Resp: 321657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.5 | 0.0 | 5.6 |
| 130 | 100.9 | 81.9 | 122.9 |

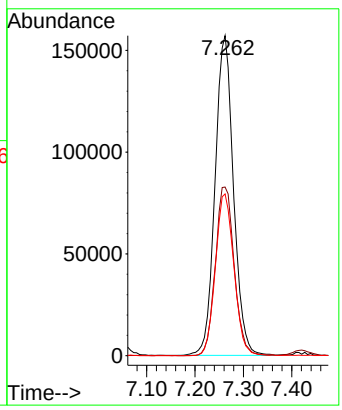





#29
Tetrahydrofuran
Concen: 488.587 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 42 Resp: 41586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 54.1 | 43.0 | 64.6 |
| 71 | 50.9 | 40.1 | 60.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 10/10/2025
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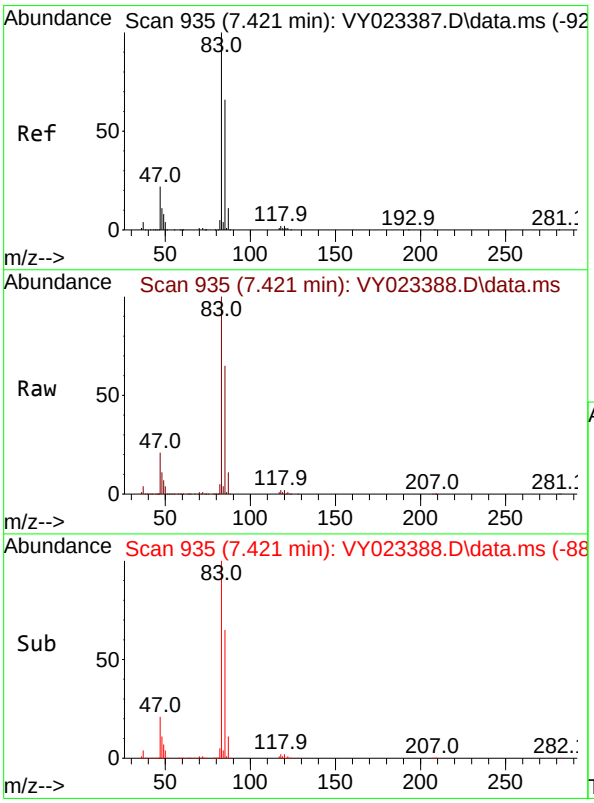
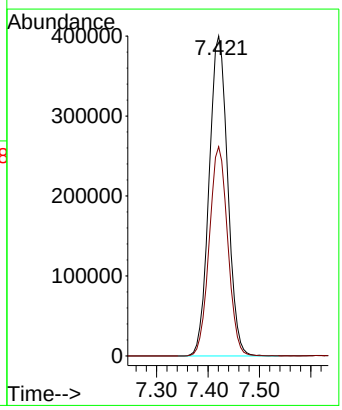
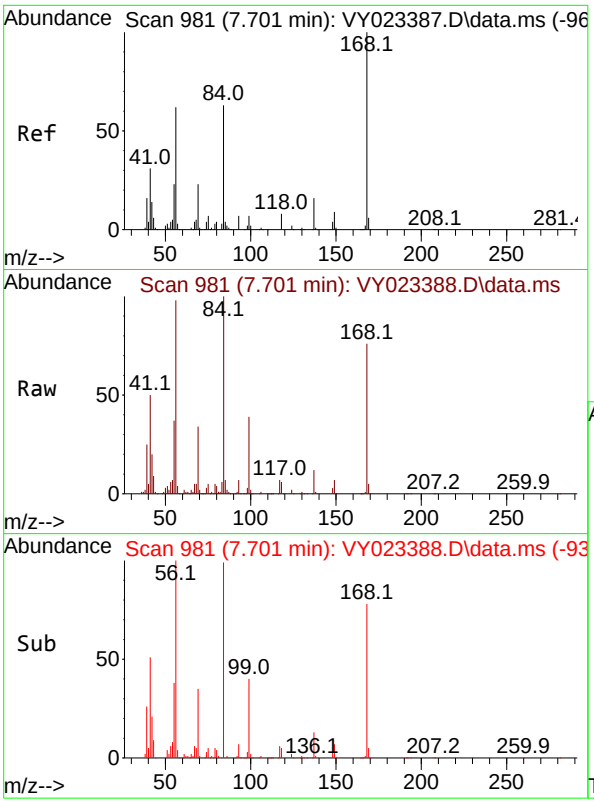



#30
Chloroform
Concen: 91.401 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 83 Resp: 1003722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.4 | 52.5 | 78.7 |






#31
Cyclohexane
Concen: 85.293 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 56 Resp: 76708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.9 | 30.0 | 45.0 |
| 84 | 100.2 | 81.2 | 121.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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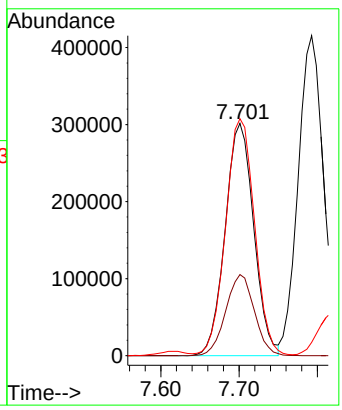
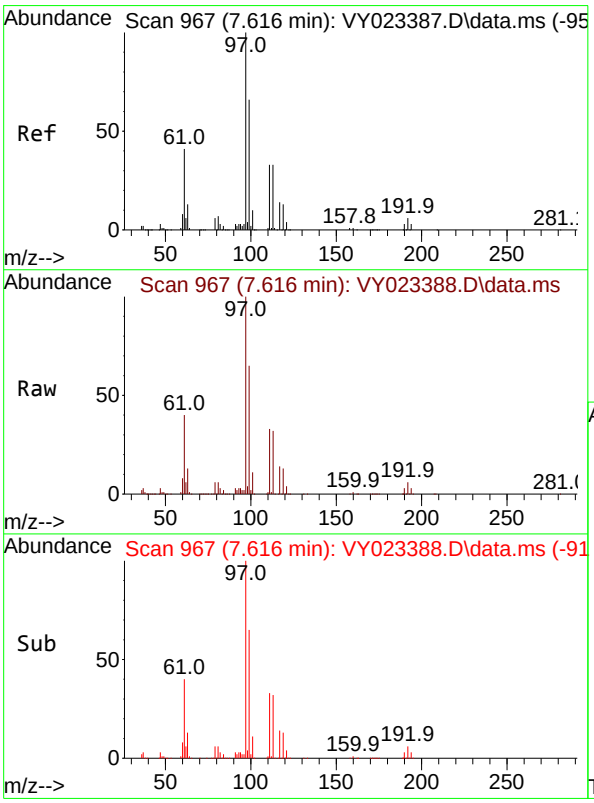
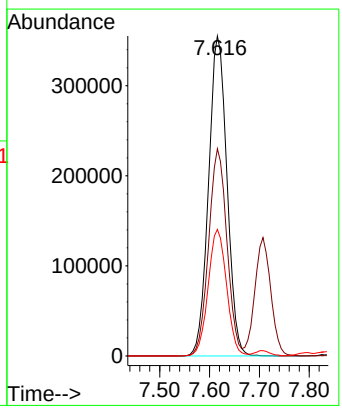


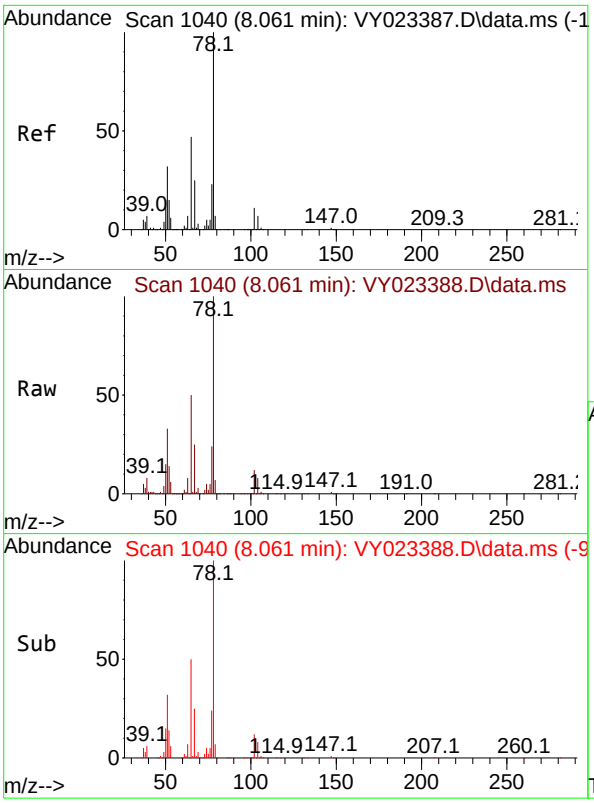




#32
1,1,1-Trichloroethane
Concen: 92.399 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 97 Resp: 910837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.3 | 51.4 | 77.2 |
| 61 | 39.7 | 31.9 | 47.9 |






#33
1,2-Dichloroethane-d4
Concen: 90.510 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 65 Resp: 46700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.0 | 0.0 | 105.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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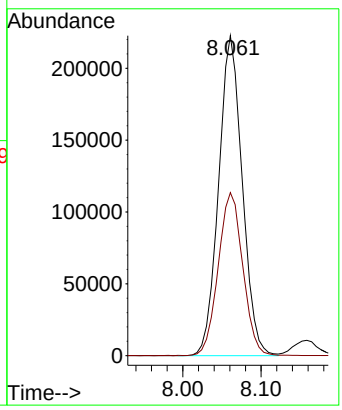
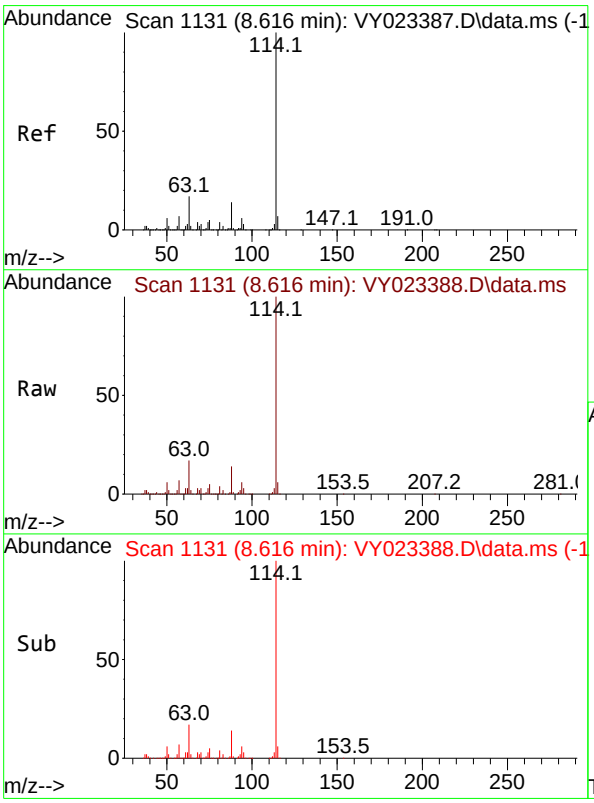
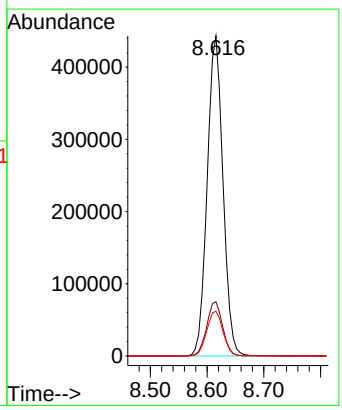


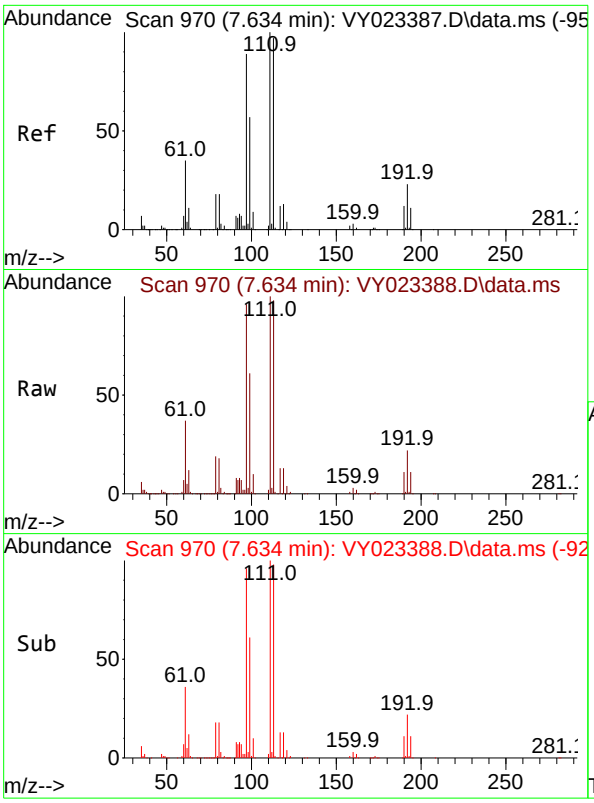




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:114 Resp: 855682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.0 | 0.0 | 34.2 |
| 88 | 13.9 | 0.0 | 28.4 |






#35
Dibromofluoromethane
Concen: 98.497 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:113 Resp: 51147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.4 | 81.8 | 122.6 |
| 192 | 22.5 | 18.0 | 27.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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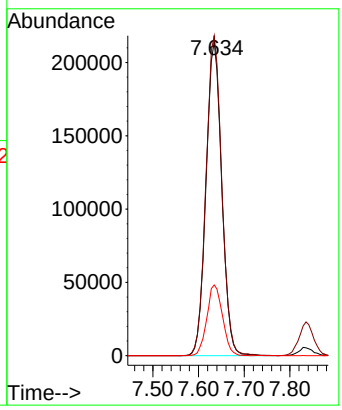
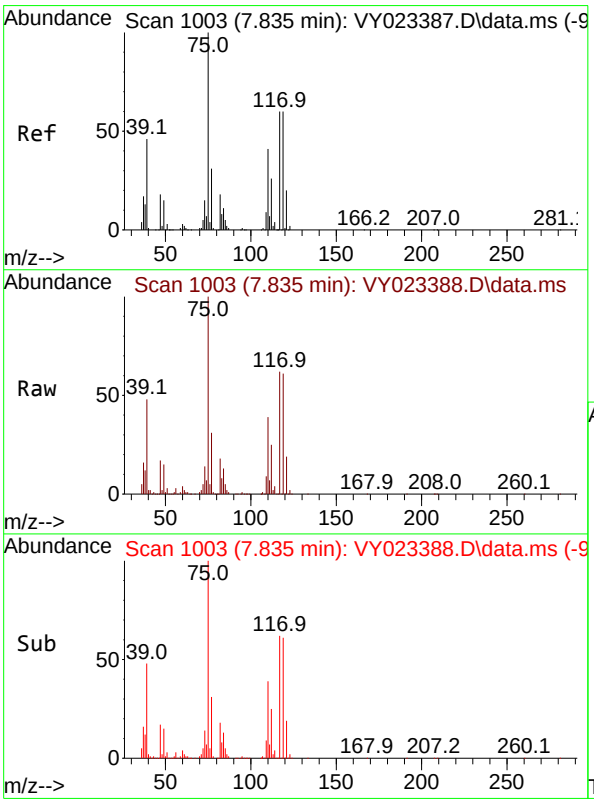
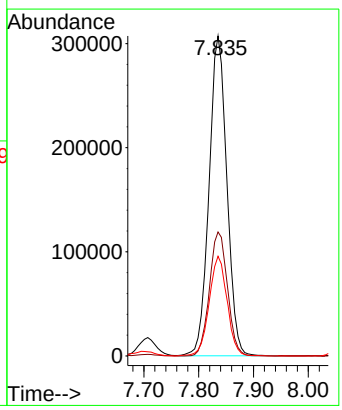


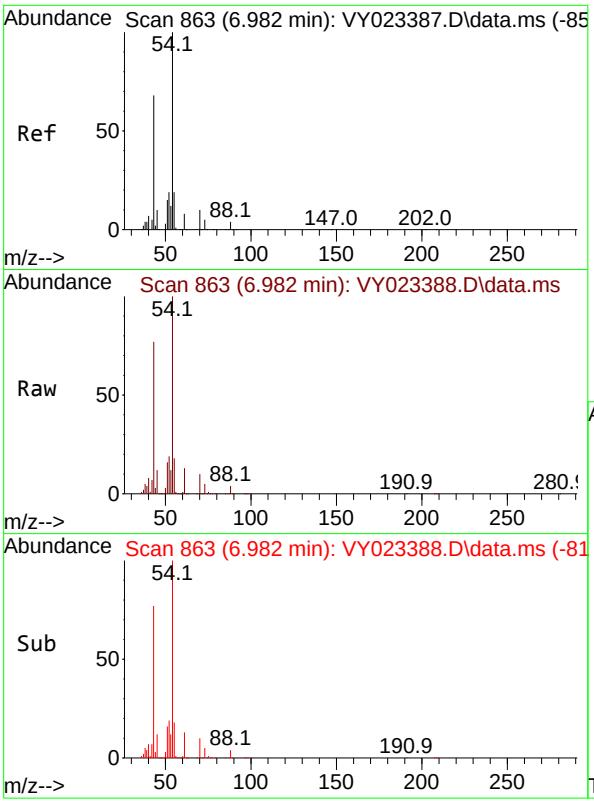




#36
1,1-Dichloropropene
Concen: 94.516 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 75 Resp: 692477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 39.2 | 19.9 | 59.7 |
| 77 | 31.4 | 25.0 | 37.6 |






#37
Ethyl Acetate
Concen: 96.859 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 28056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.9 | 11.8 | 17.8 |
| 70 | 12.4 | 10.5 | 15.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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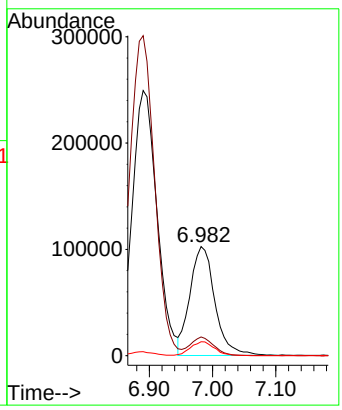
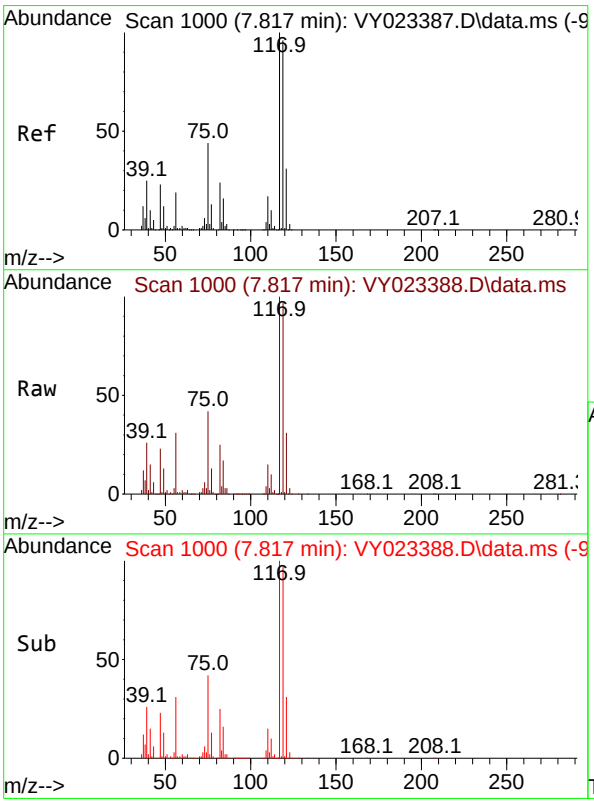
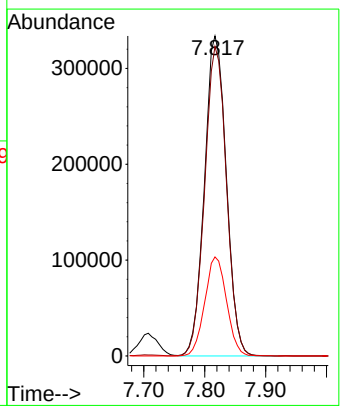


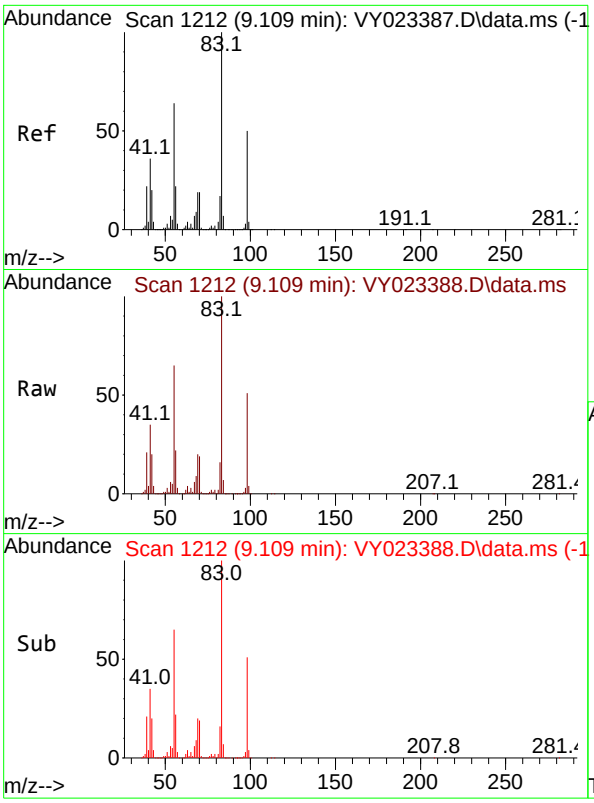




#38
Carbon Tetrachloride
Concen: 97.894 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:117 Resp: 833170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.7 | 76.8 | 115.2 |
| 121 | 30.9 | 24.5 | 36.7 |






#39
Methylcyclohexane
Concen: 101.024 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 83 Resp: 94766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 65.4 | 51.4 | 77.2 |
| 98 | 51.3 | 40.4 | 60.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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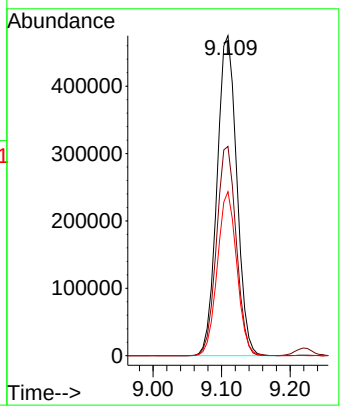
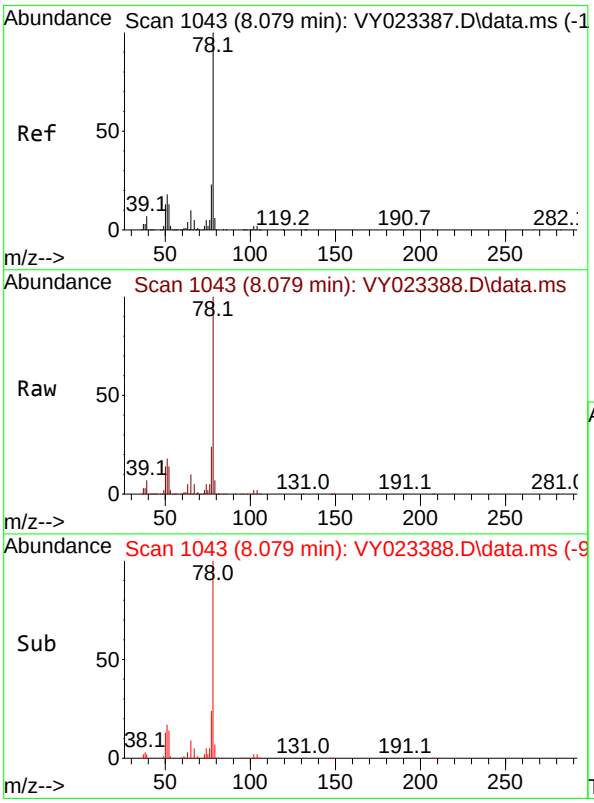
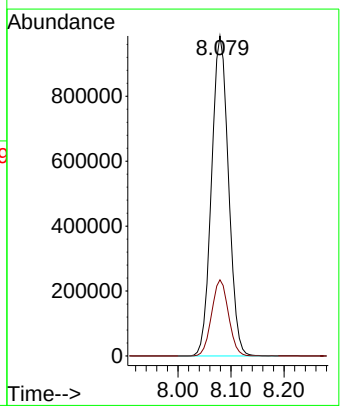


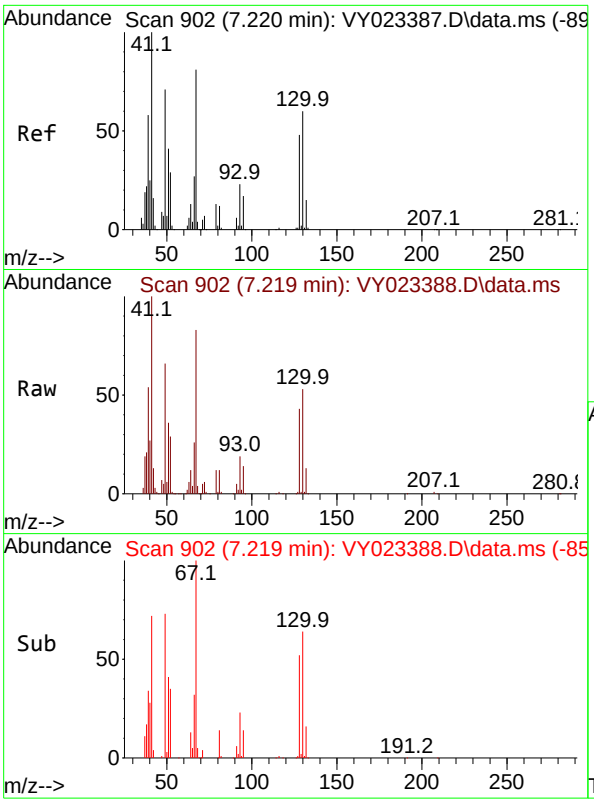




#40
Benzene
Concen: 96.000 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 78 Resp: 2192645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.8 | 18.3 | 27.5 |

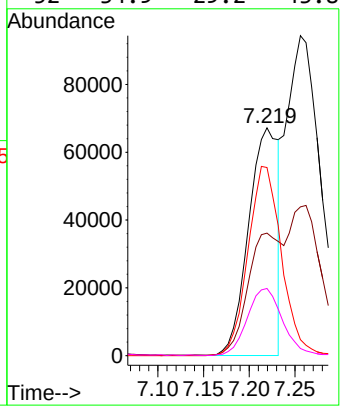





#41
Methacrylonitrile
Concen: 101.200 ug/l
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 41 Resp: 15223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 62.6 | 52.2 | 78.4 |
| 67 | 93.9 | 74.9 | 112.3 |
| 52 | 34.9 | 29.2 | 43.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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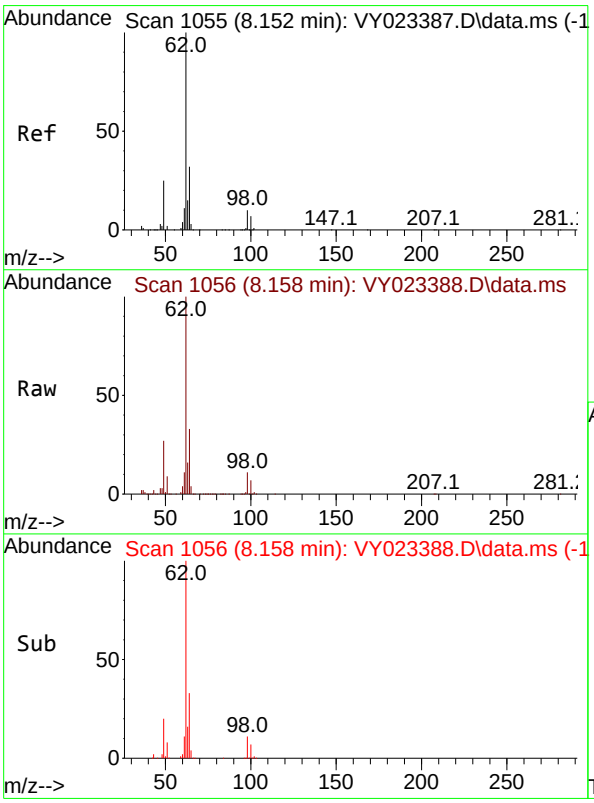
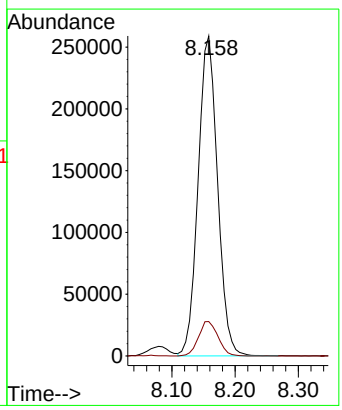
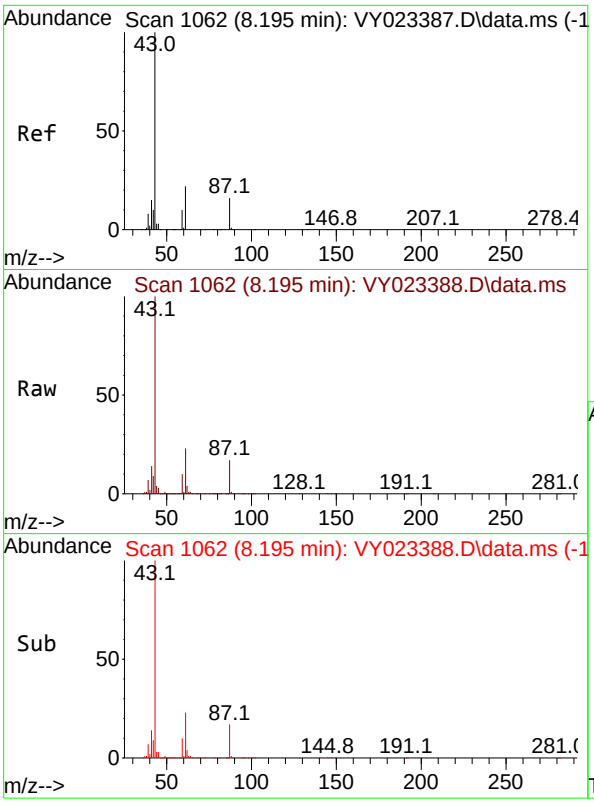



#42
1,2-Dichloroethane
Concen: 95.449 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 62 Resp: 554810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.8 | 0.0 | 21.6 |

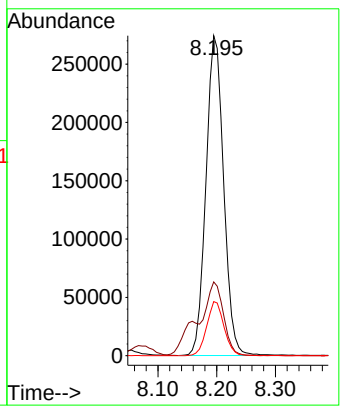





#43
Isopropyl Acetate
Concen: 101.815 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 57365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 23.0 | 18.1 | 27.1 |
| 87 | 16.6 | 13.5 | 20.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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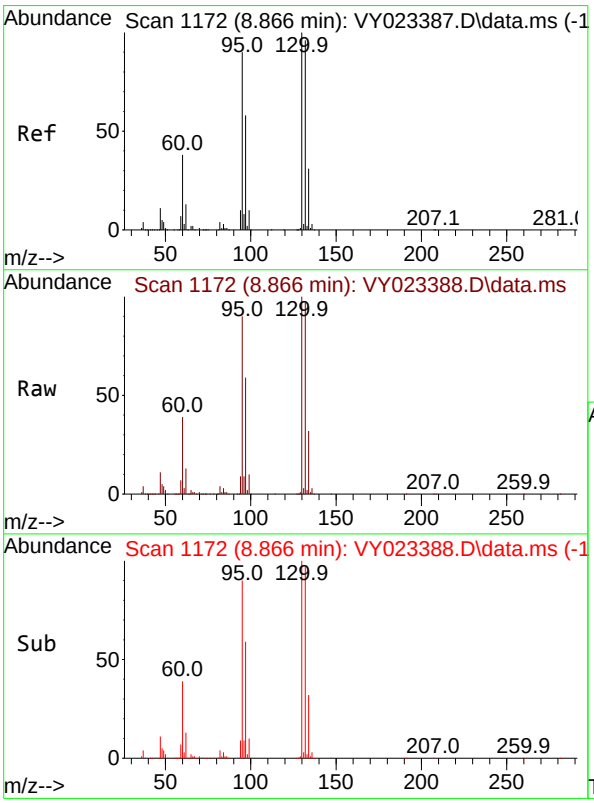
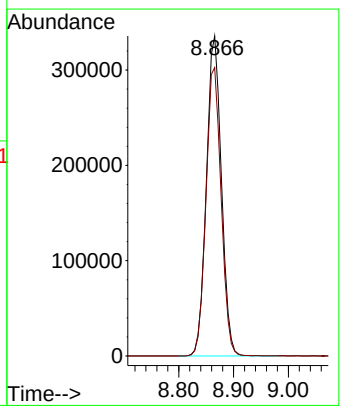
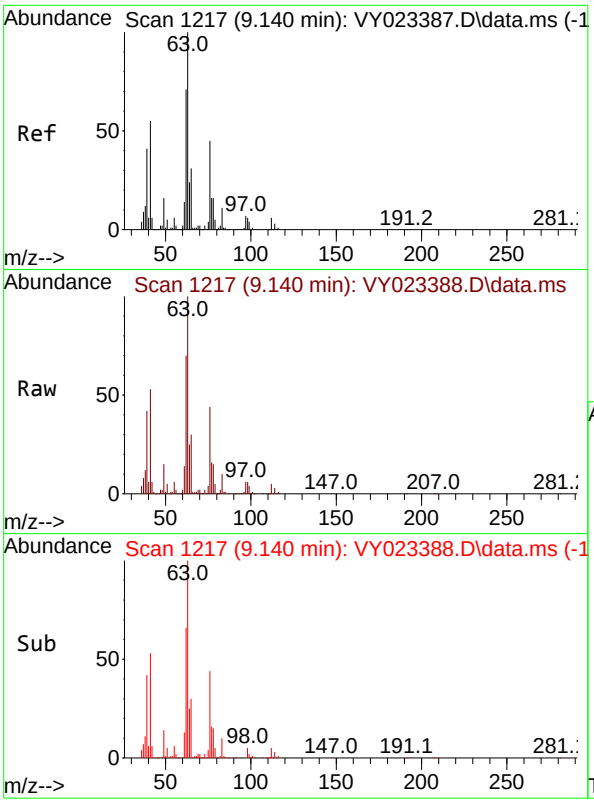



#44
Trichloroethene
Concen: 99.245 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:130 Resp: 636149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 90.1 | 0.0 | 180.6 |

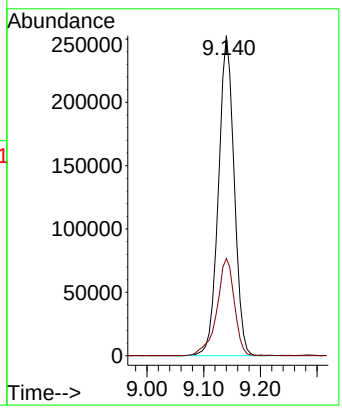





#45
1,2-Dichloropropane
Concen: 94.381 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 63 Resp: 48508

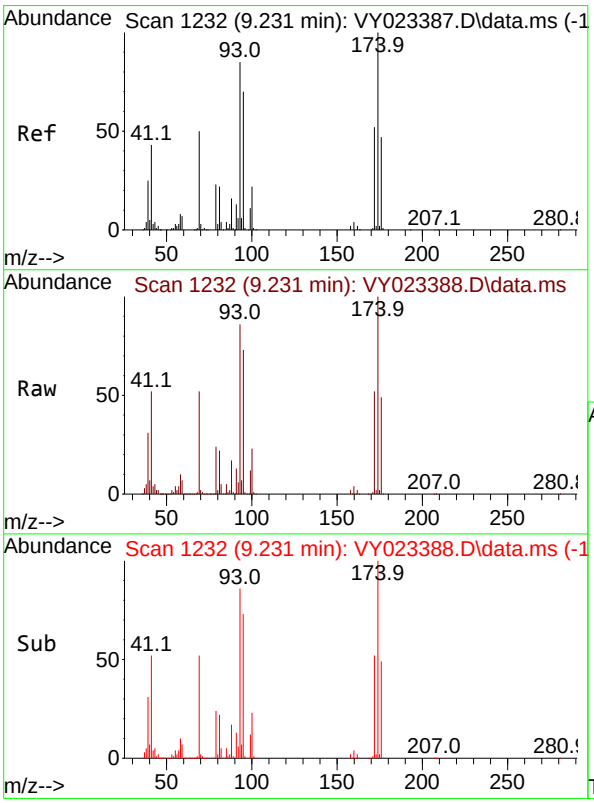
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.3 | 24.9 | 37.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

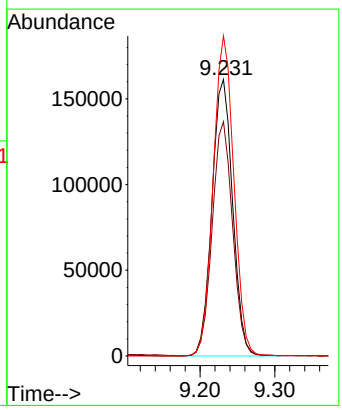
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

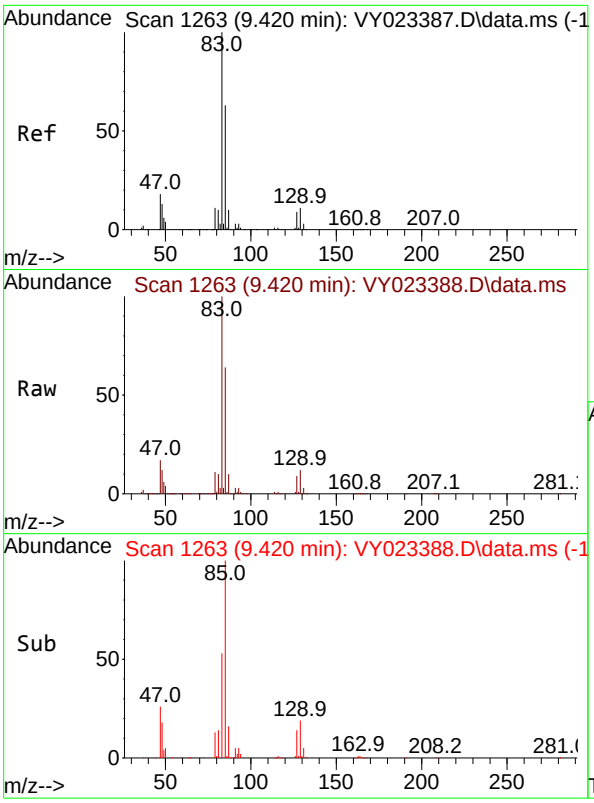



#46
Dibromomethane
Concen: 98.596 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 93 Resp: 309964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.8 | 65.4 | 98.0 |
| 174 | 115.6 | 92.9 | 139.3 |

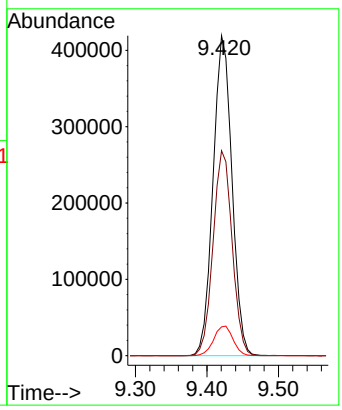





#47
Bromodichloromethane
Concen: 97.210 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 83 Resp: 76923

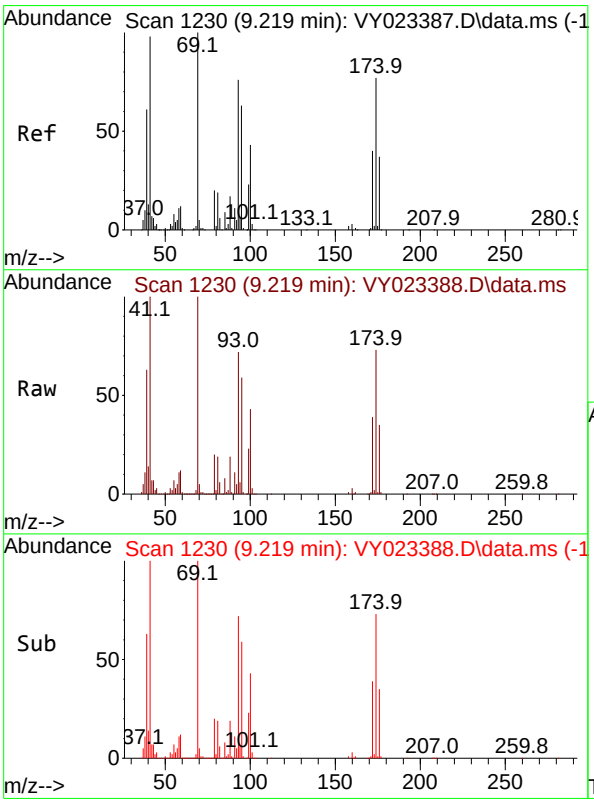
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.1 | 50.8 | 76.2 |
| 127 | 9.0 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

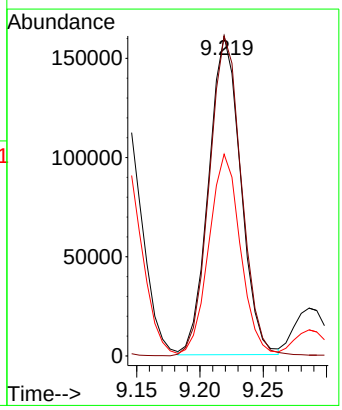
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

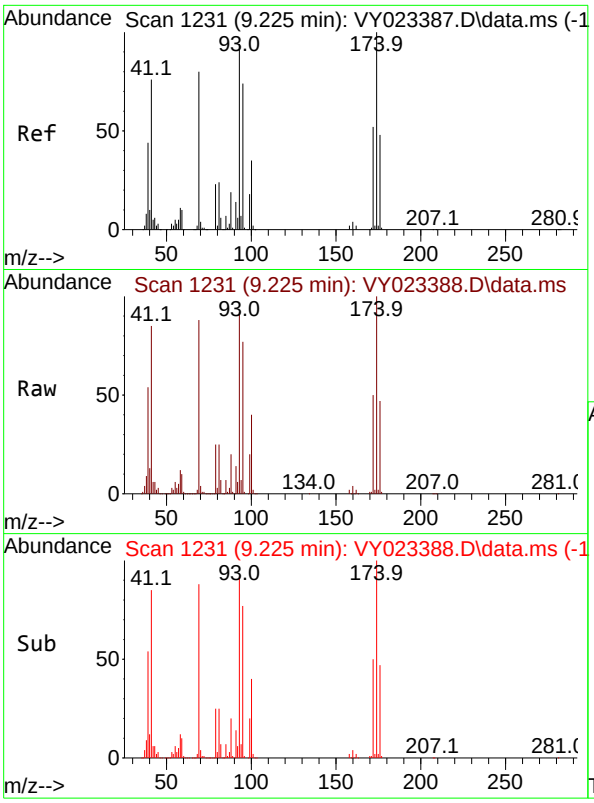



#48
Methyl methacrylate
Concen: 107.476 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 41 Resp: 282582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 100.8 | 81.0 | 121.4 |
| 39 | 60.9 | 48.2 | 72.4 |






#49
1,4-Dioxane
Concen: 2374.722 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 88 Resp: 7730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 27.5 | 21.8 | 32.8 |
| 58 | 58.0 | 46.8 | 70.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 10/10/2025
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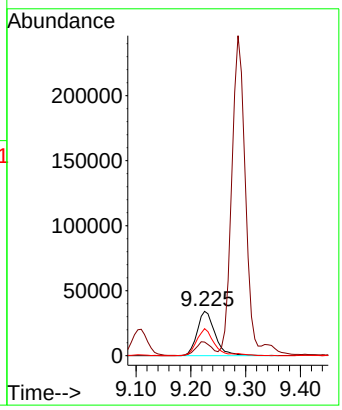
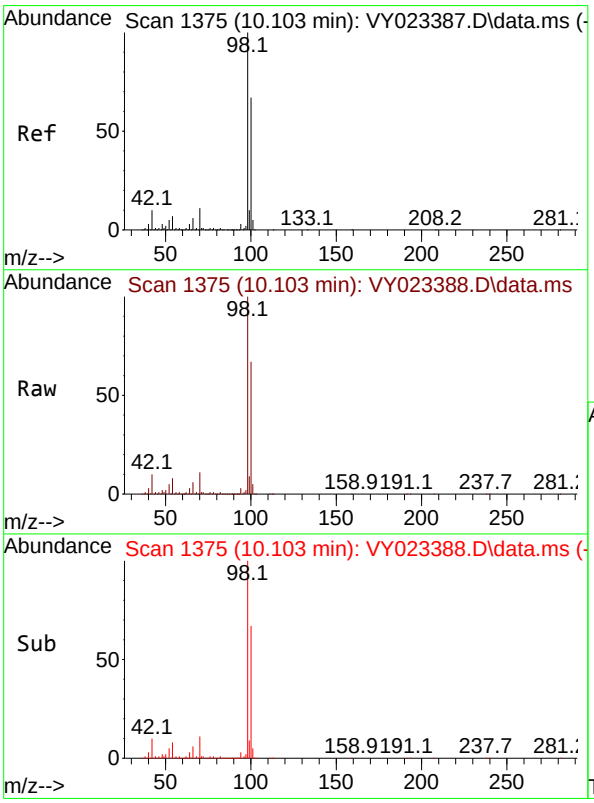
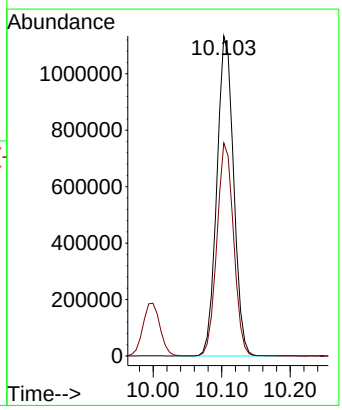


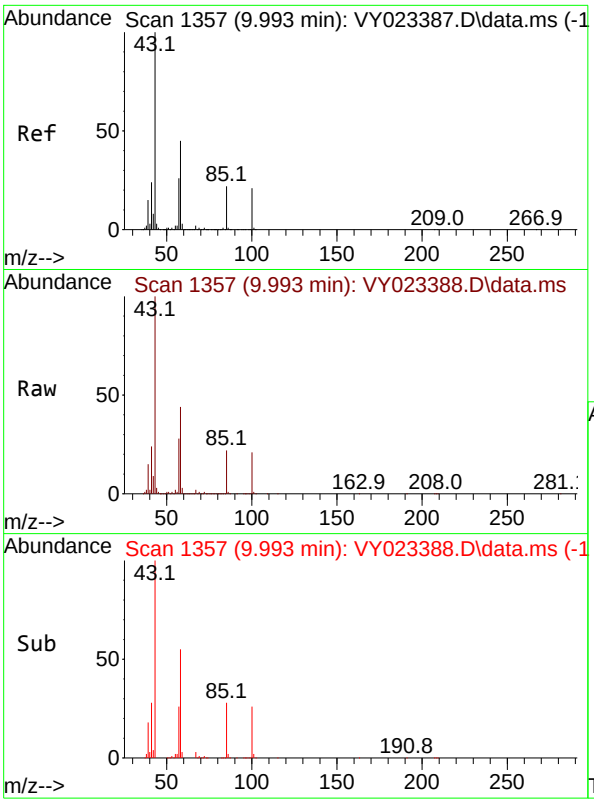




#50
Toluene-d8
Concen: 98.031 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 98 Resp: 1919872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.3 | 53.0 | 79.4 |






#51
4-Methyl-2-Pentanone
Concen: 533.386 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 153932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 44.0 | 35.3 | 52.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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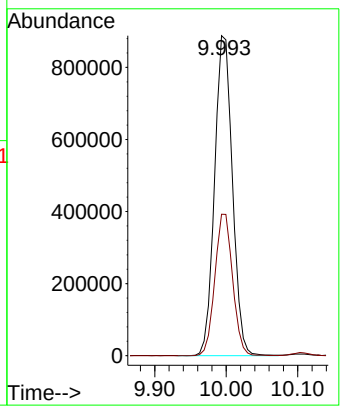
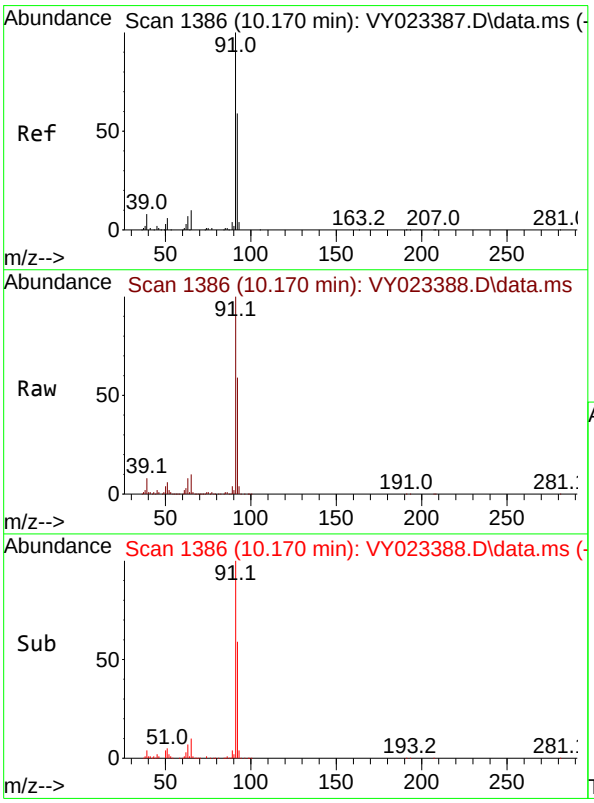
Supervised By :Mahesh Dadoda 10/10/2025

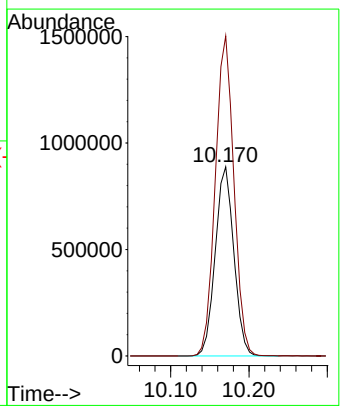


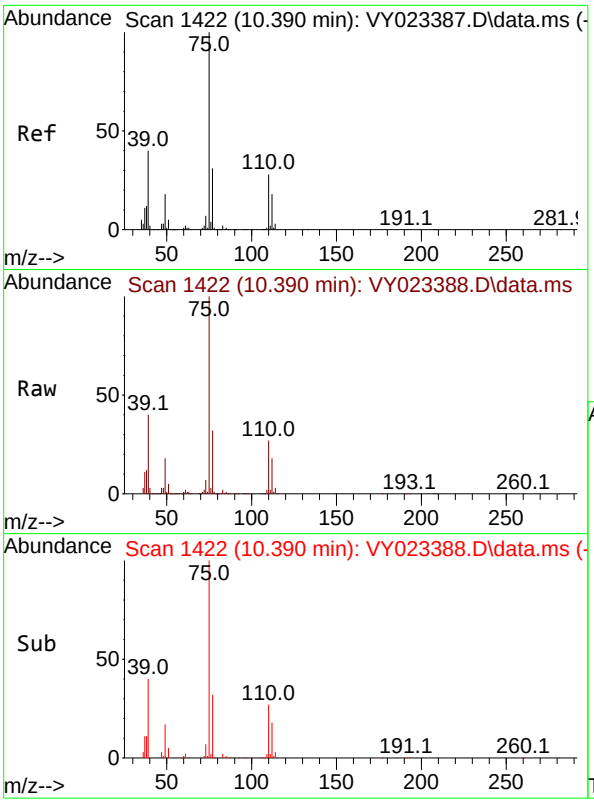




#52
Toluene
Concen: 100.905 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 92 Resp: 1462927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.6 | 136.4 | 204.6 |






#53
t-1,3-Dichloropropene
Concen: 104.537 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 75 Resp: 71047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.3 | 25.1 | 37.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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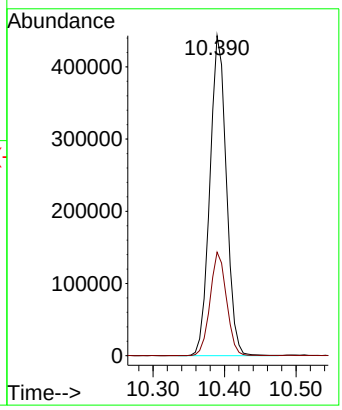
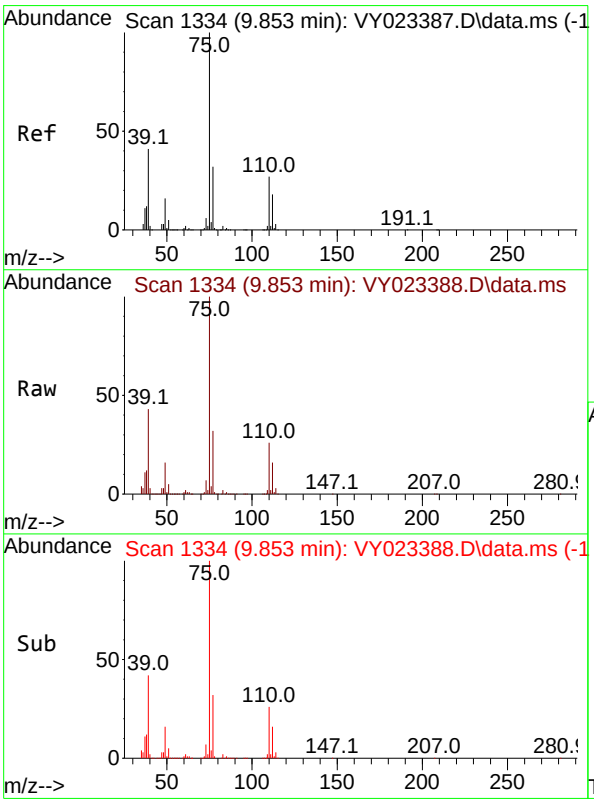
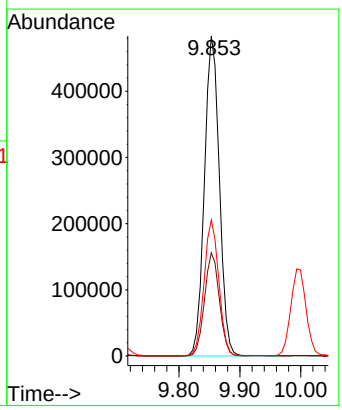


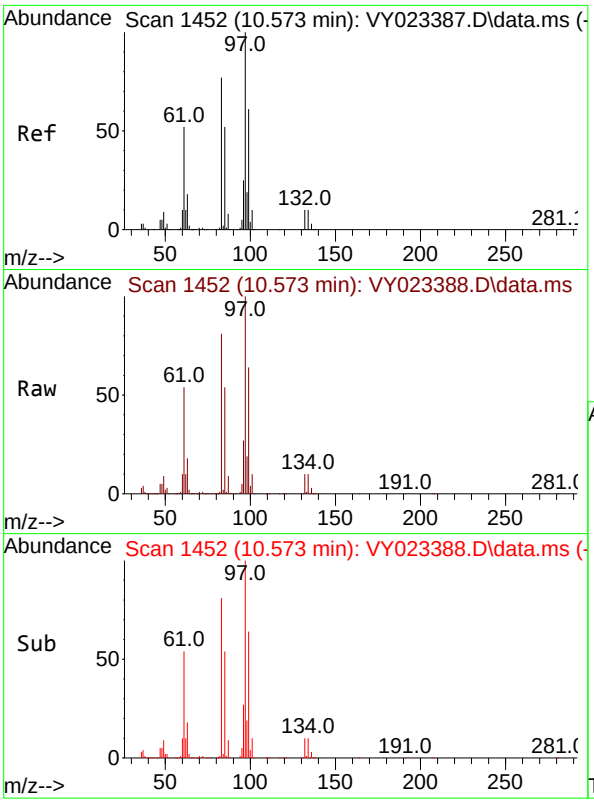




#54
cis-1,3-Dichloropropene
Concen: 101.302 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 75 Resp: 822967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.2 | 25.4 | 38.0 |
| 39 | 42.5 | 32.8 | 49.2 |

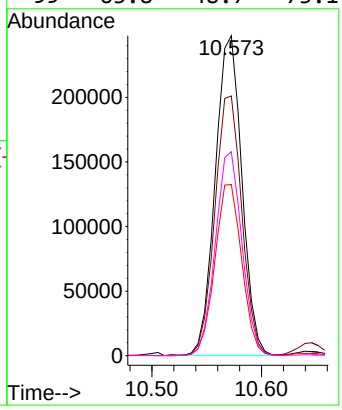





#55
1,1,2-Trichloroethane
Concen: 99.875 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 97 Resp: 41762

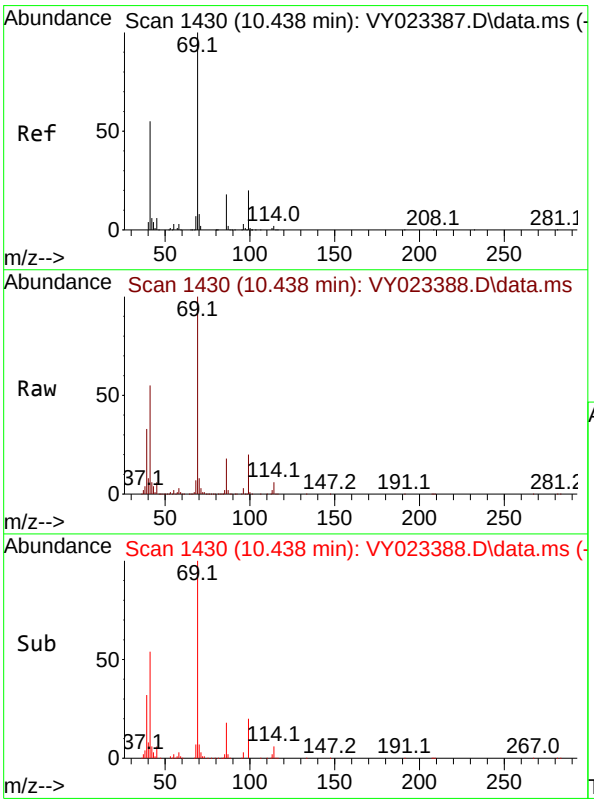
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 81.3 | 61.8 | 92.6 |
| 85 | 53.6 | 41.3 | 61.9 |
| 99 | 63.8 | 48.7 | 73.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

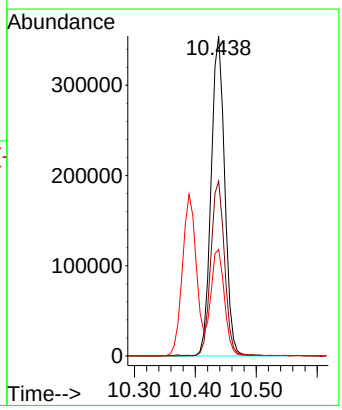
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

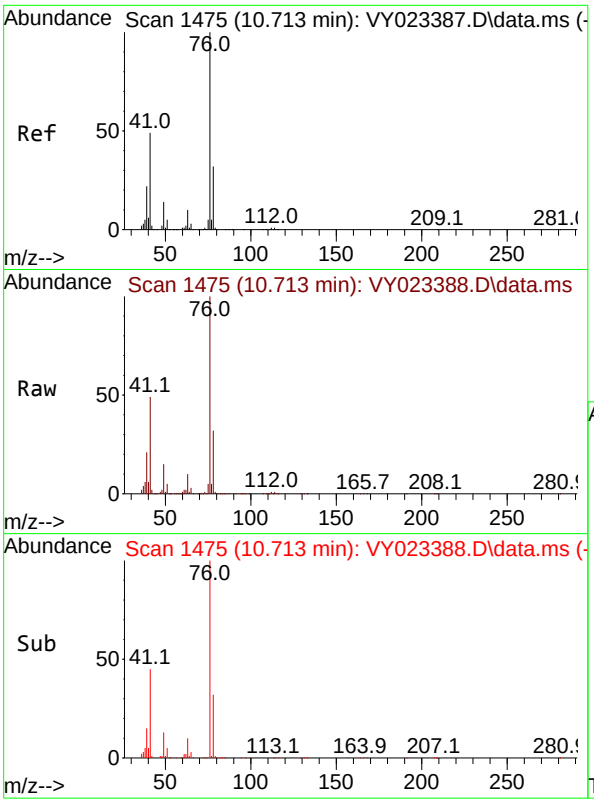



#56
Ethyl methacrylate
Concen: 114.077 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 69 Resp: 549366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 55.1 | 44.6 | 67.0 |
| 39 | 33.3 | 27.0 | 40.4 |

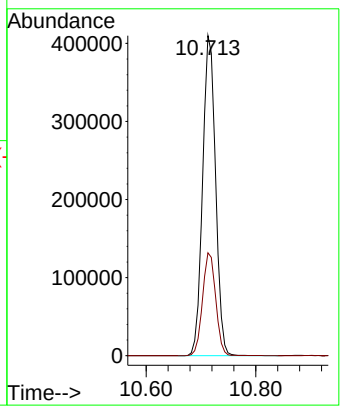





#57
1,3-Dichloropropane
Concen: 99.140 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 76 Resp: 67096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.6 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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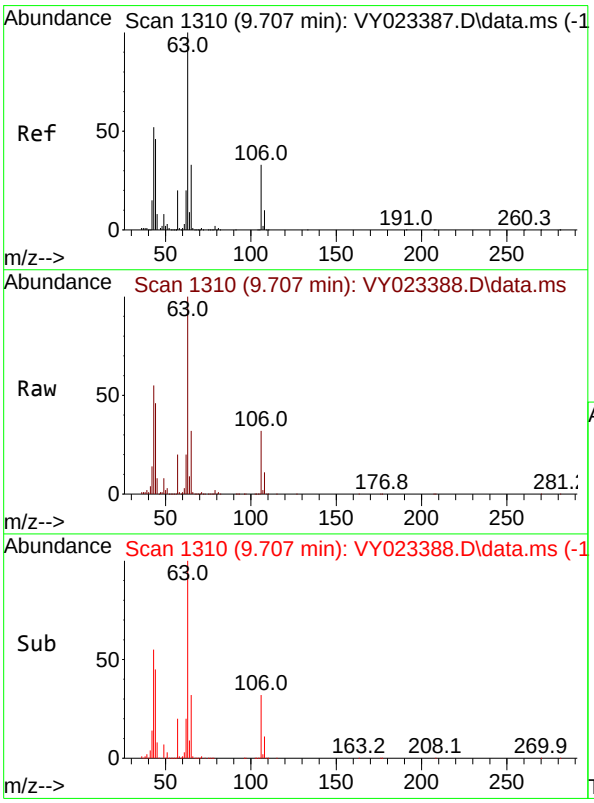
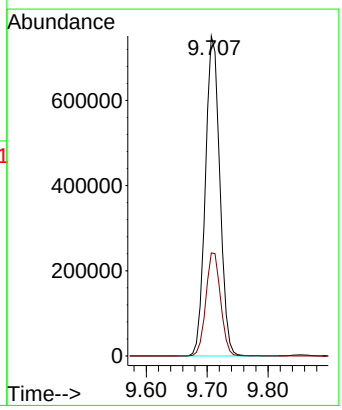
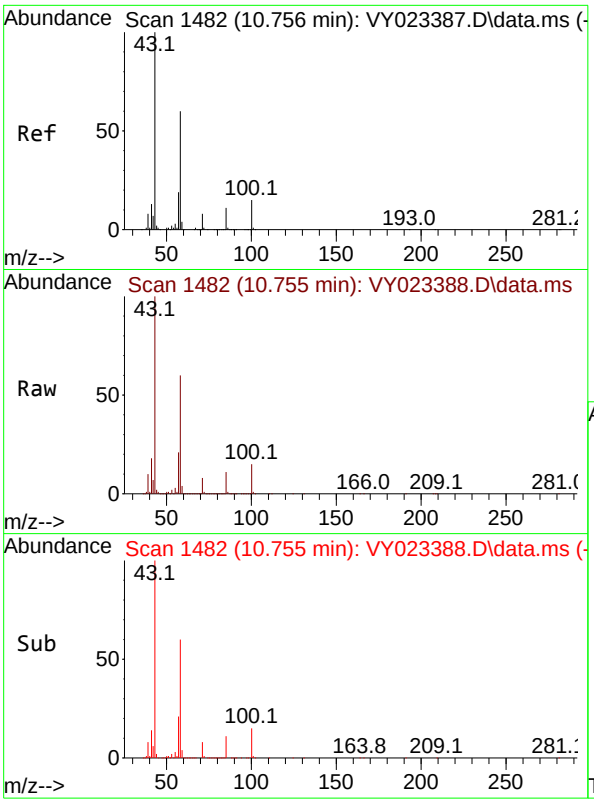



#58
2-Chloroethyl Vinyl ether
Concen: 588.731 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 63 Resp: 1240361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 32.8 | 26.6 | 39.8 |

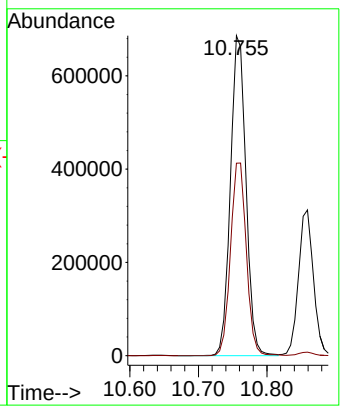





#59
2-Hexanone
Concen: 541.284 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 108156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 61.5 | 30.5 | 91.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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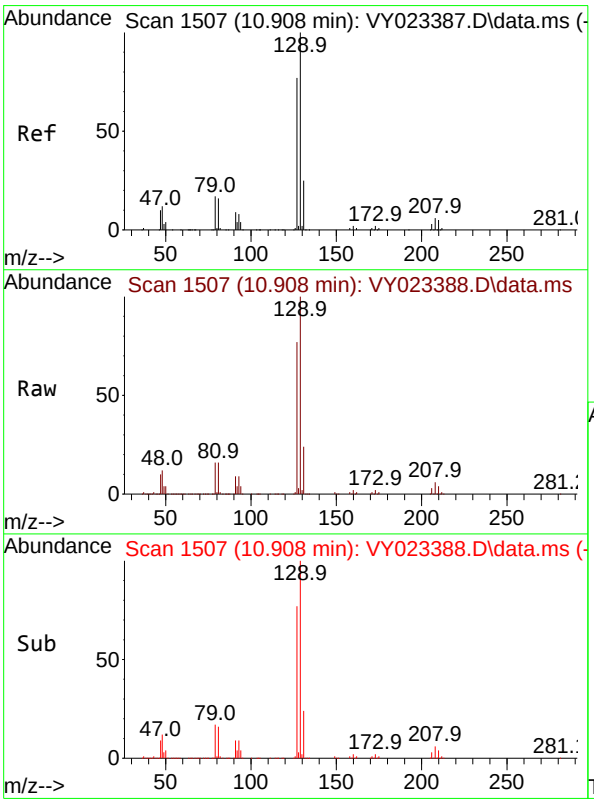
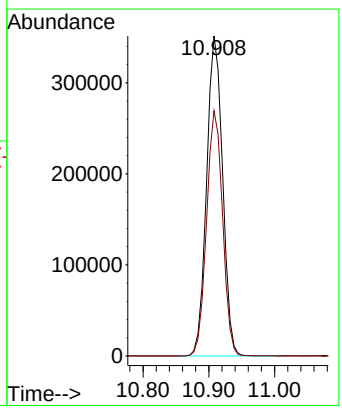
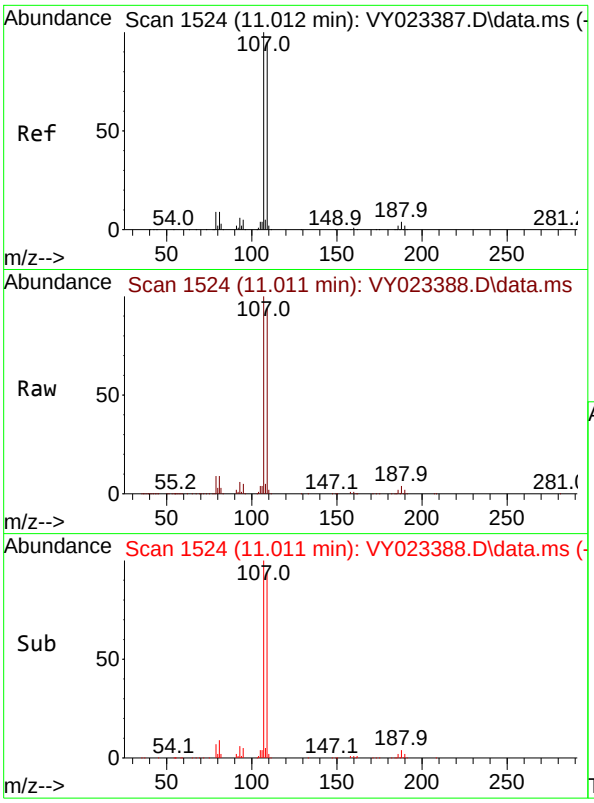



#60
Dibromochloromethane
Concen: 104.133 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:129 Resp: 593878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.9 | 38.6 | 115.7 |

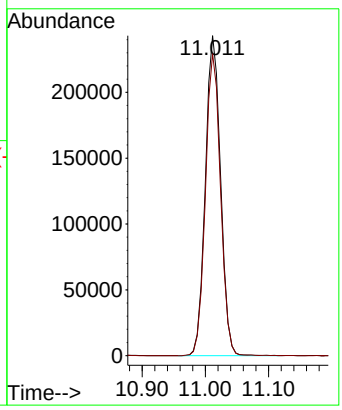





#61
1,2-Dibromoethane
Concen: 103.280 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:107 Resp: 40629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.0 | 76.1 | 114.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 10/10/2025
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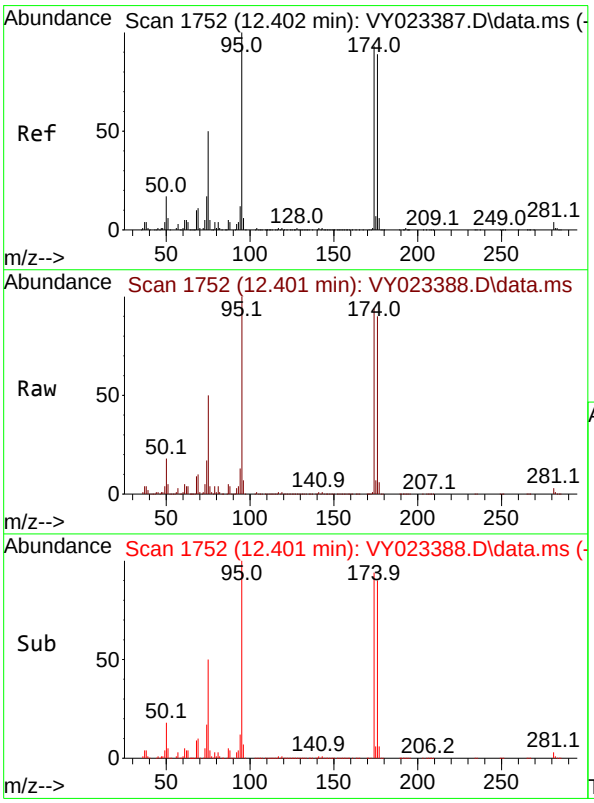
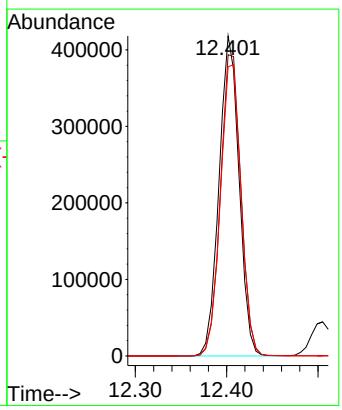
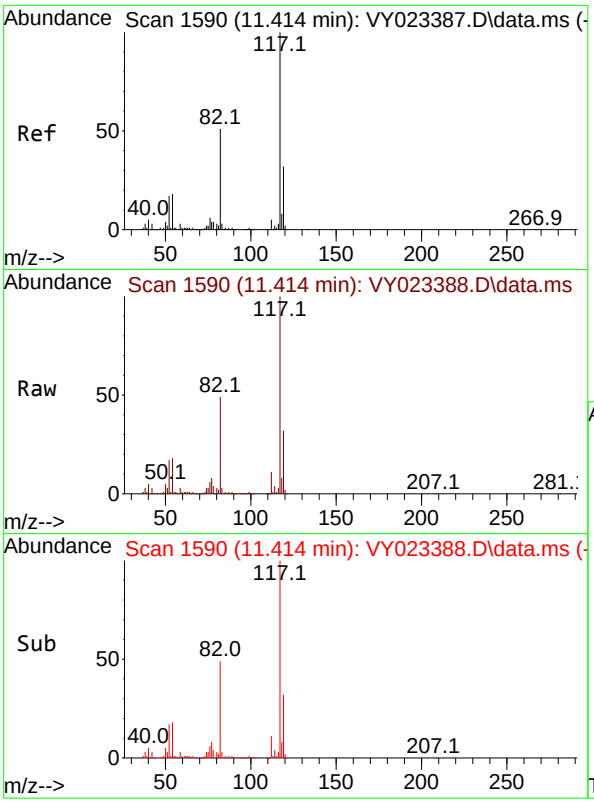



#62
4-Bromofluorobenzene
Concen: 103.007 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 95 Resp: 636435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 96.7 | 0.0 | 192.8 |
| 176 | 94.1 | 0.0 | 187.6 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

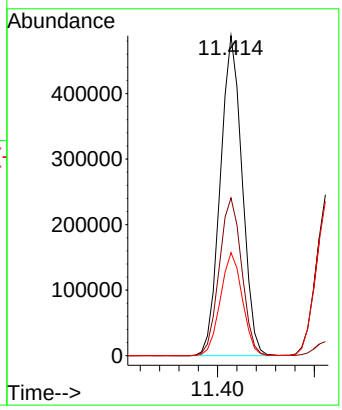
Tgt Ion:117 Resp: 76436

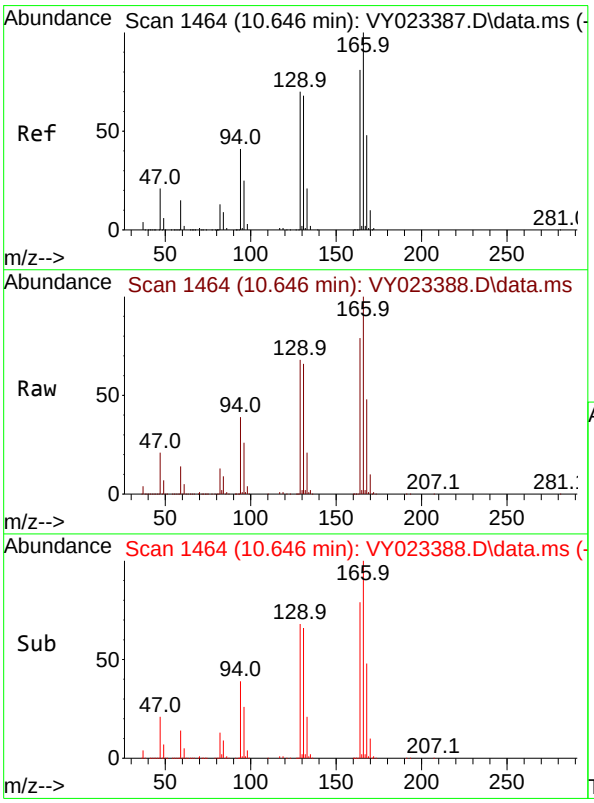
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 49.3 | 41.0 | 61.4 |
| 119 | 32.2 | 25.6 | 38.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

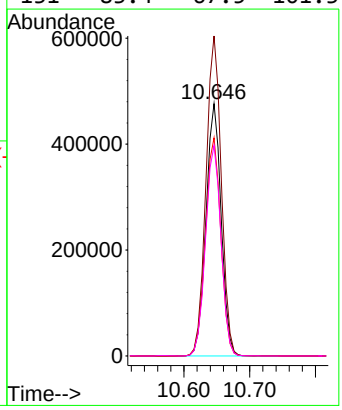


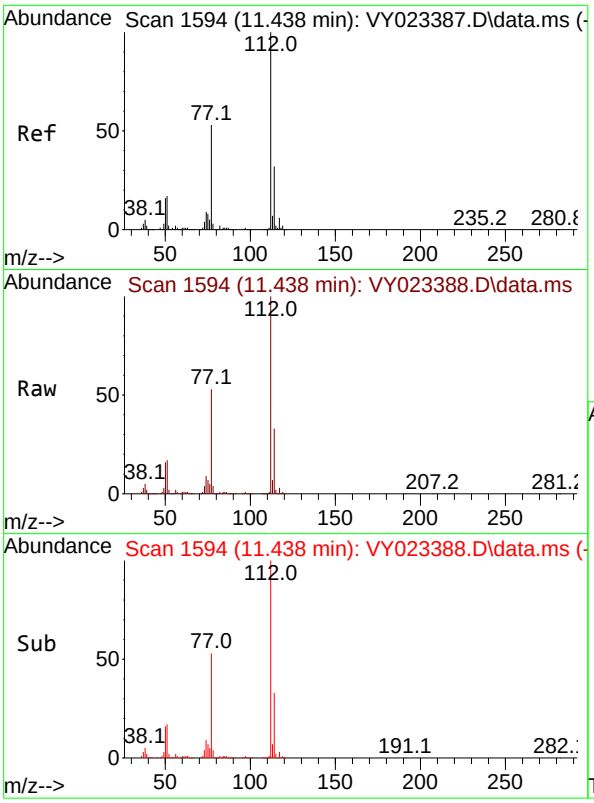




#64
Tetrachloroethene
Concen: 100.406 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:164 Resp: 767753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.9 | 99.4 | 149.0 |
| 129 | 86.5 | 69.4 | 104.2 |
| 131 | 83.4 | 67.5 | 101.3 |

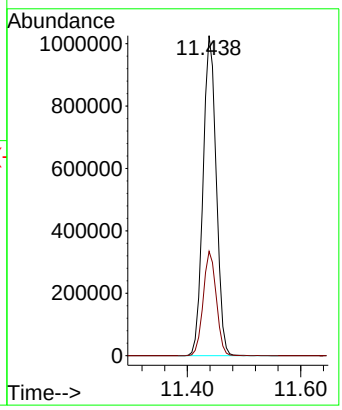





#65
Chlorobenzene
Concen: 99.649 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:112 Resp: 165514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.6 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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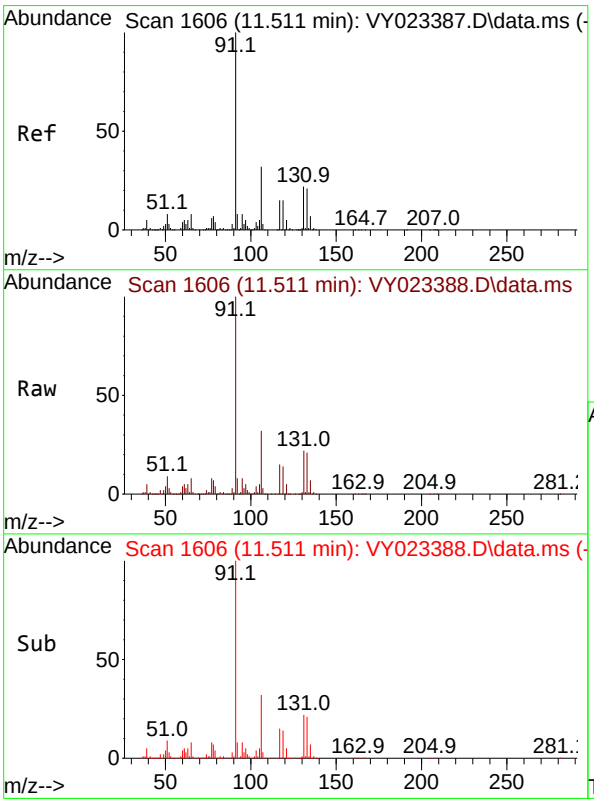
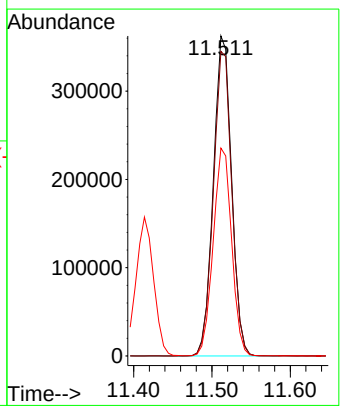
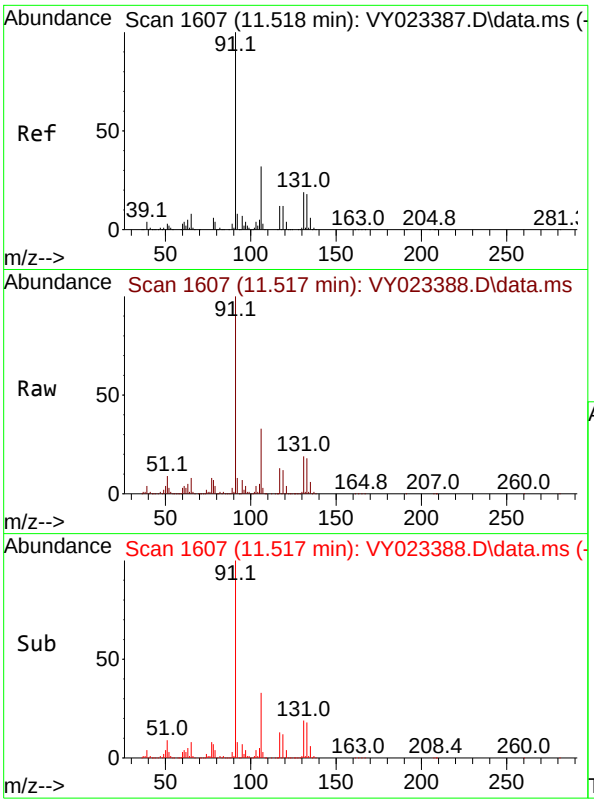



#66
1,1,1,2-Tetrachloroethane
Concen: 100.470 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:131 Resp: 586878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.0 | 48.4 | 145.2 |
| 119 | 65.7 | 32.4 | 97.2 |






#67
Ethyl Benzene
Concen: 102.856 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 91 Resp: 278825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 33.4 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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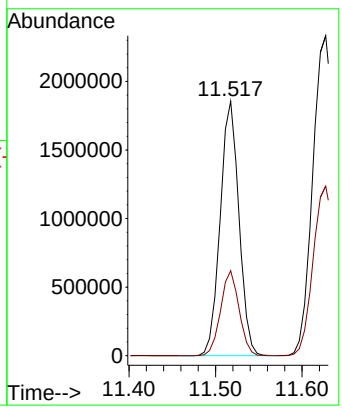
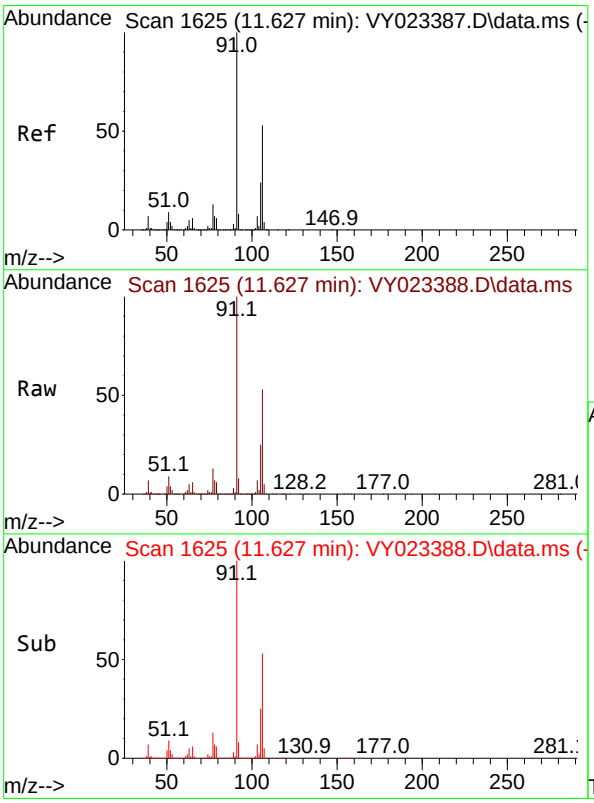
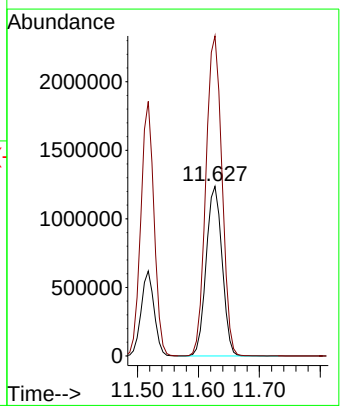


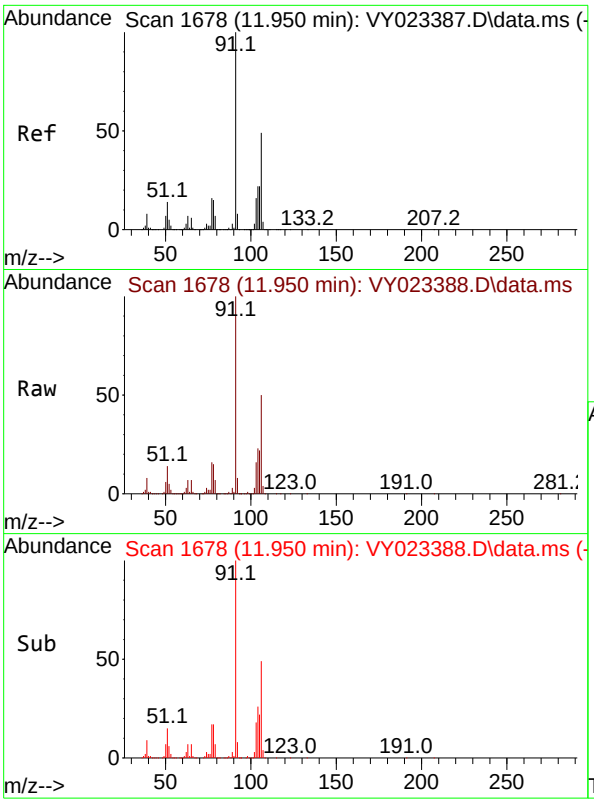




#68
m/p-Xylenes
Concen: 206.437 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:106 Resp: 2243033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 190.5 | 152.6 | 229.0 |

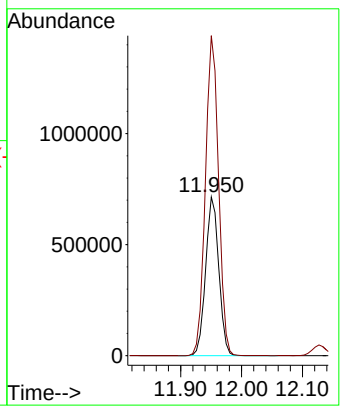





#69
o-Xylene
Concen: 106.611 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:106 Resp: 107233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 201.8 | 101.4 | 304.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 10/10/2025
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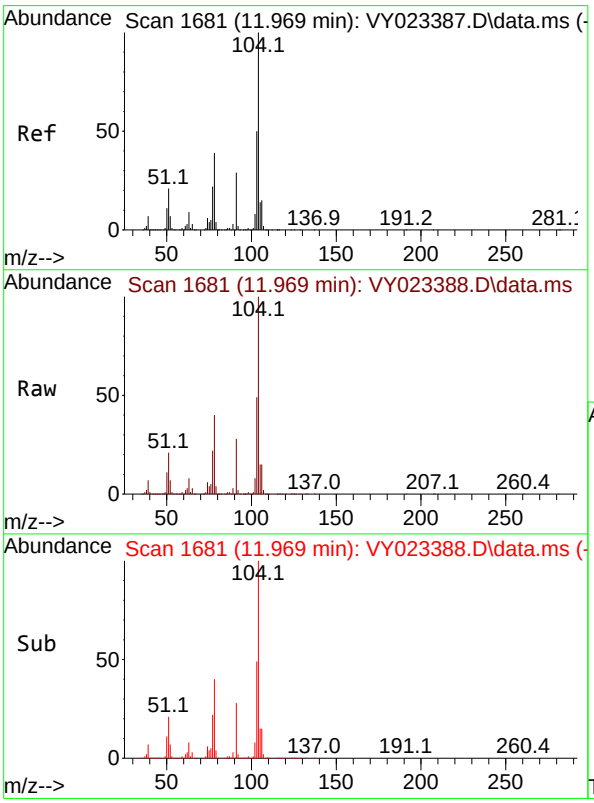
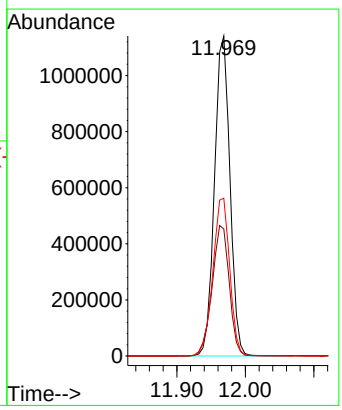
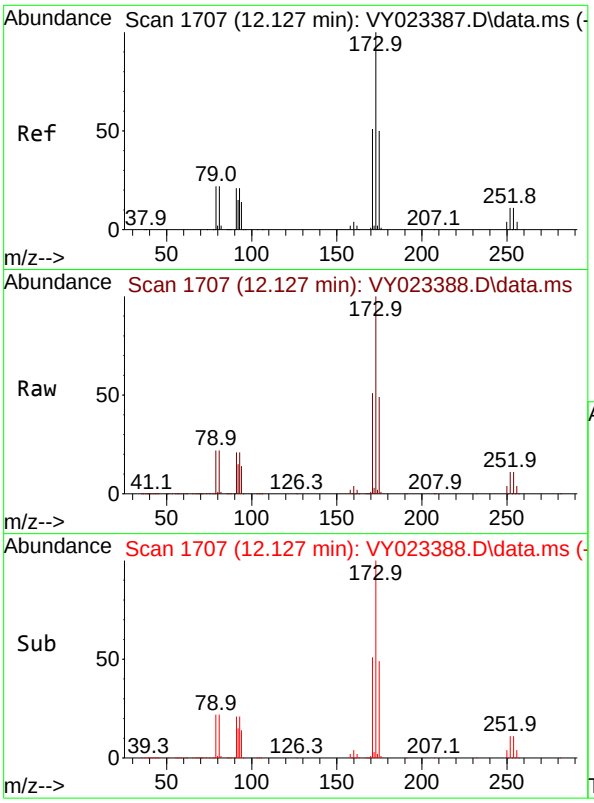



#70
Styrene
Concen: 107.344 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:104 Resp: 1782757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 45.3 | 36.1 | 54.1 |
| 103 | 53.9 | 43.2 | 64.8 |

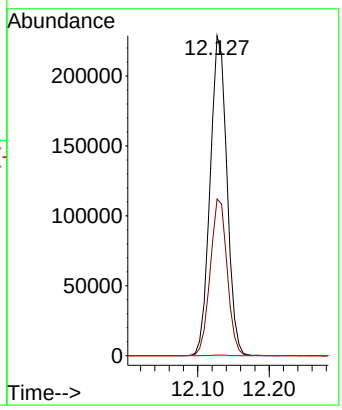





#71
Bromoform
Concen: 106.727 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:173 Resp: 37320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.4 | 24.8 | 74.3 |
| 254 | 0.2 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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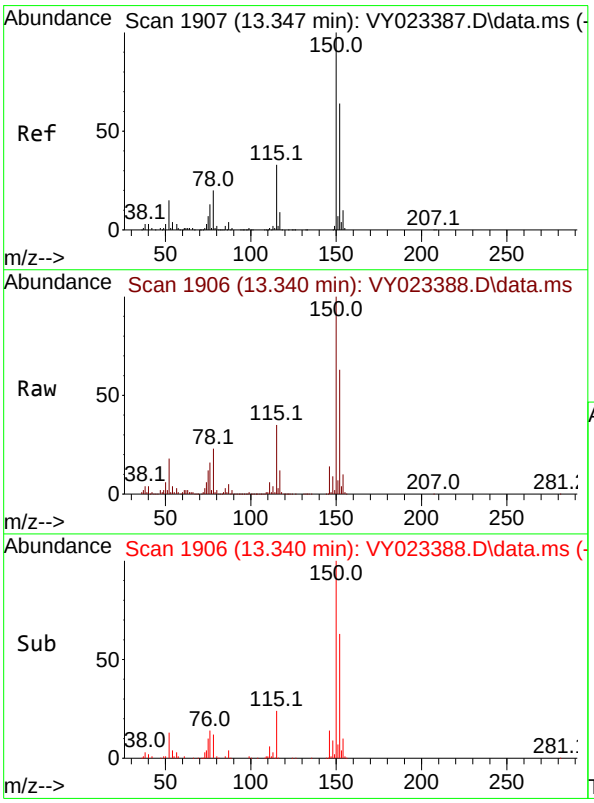
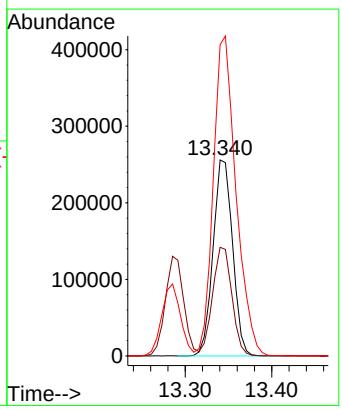
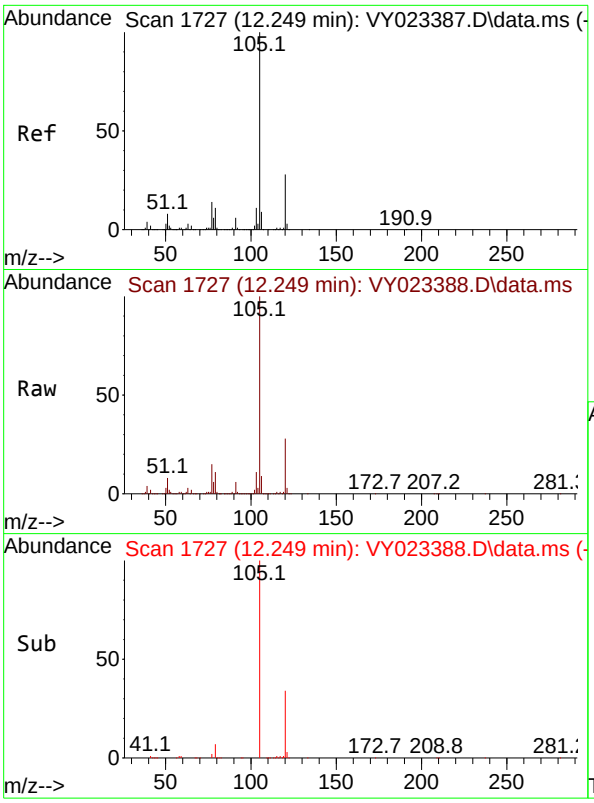



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:152 Resp: 400285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 55.0 | 27.1 | 81.2 |
| 150 | 190.0 | 0.0 | 347.4 |






#73
Isopropylbenzene
Concen: 102.825 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:105 Resp: 274169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.7 | 13.9 | 41.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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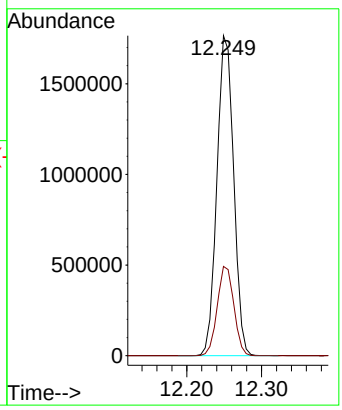
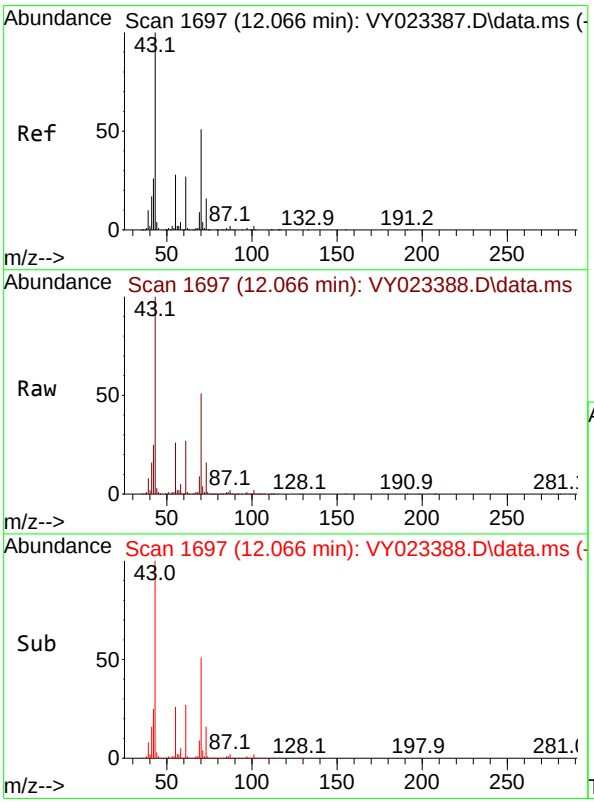
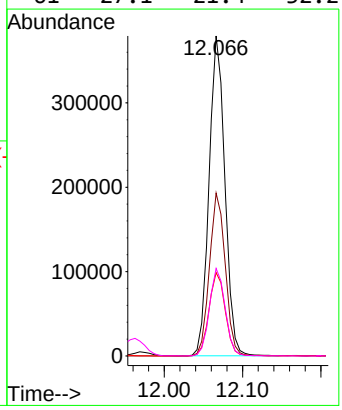


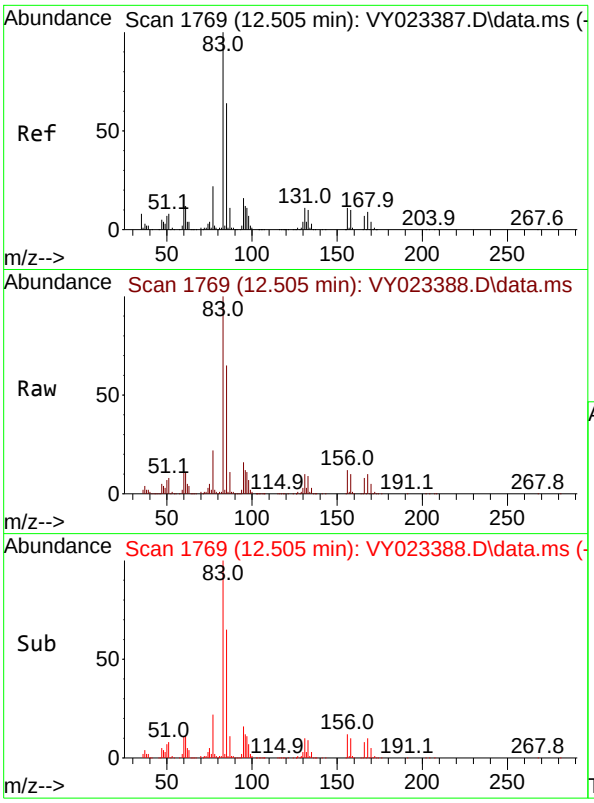




#74
N-amyl acetate
Concen: 106.818 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 532255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 51.0 | 41.1 | 61.7 |
| 55 | 26.8 | 23.0 | 34.6 |
| 61 | 27.1 | 21.4 | 32.2 |






#75
1,1,2,2-Tetrachloroethane
Concen: 97.735 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 83 Resp: 43472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.5 | 5.9 | 17.6 |
| 85 | 64.9 | 31.8 | 95.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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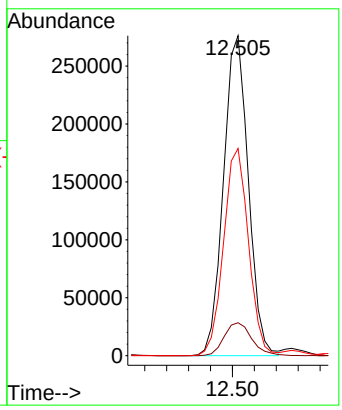
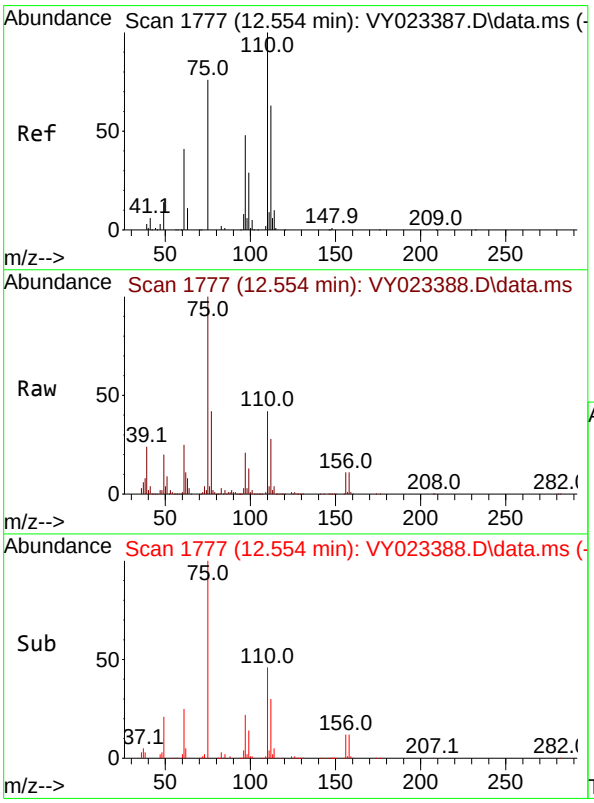
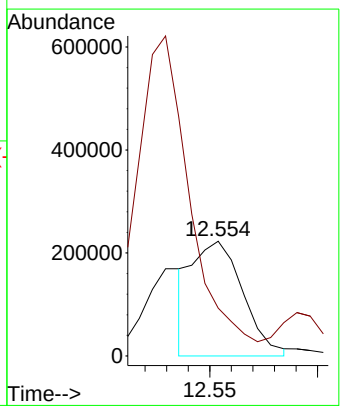


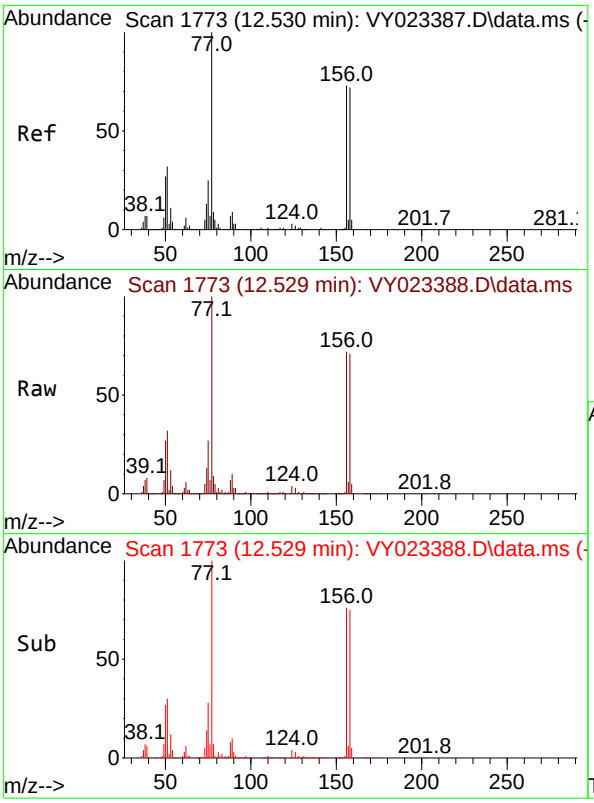




#76
1,2,3-Trichloropropane
Concen: 92.345 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 75 Resp: 364622

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

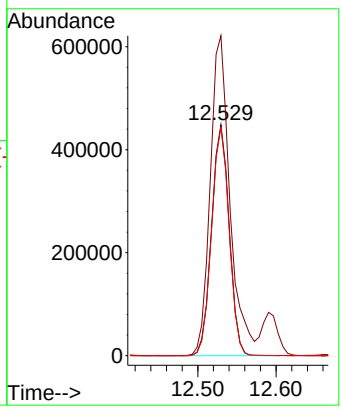





#77
Bromobenzene
Concen: 102.545 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:156 Resp: 70174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 154.5 | 76.8 | 230.5 |
| 158 | 98.1 | 49.0 | 147.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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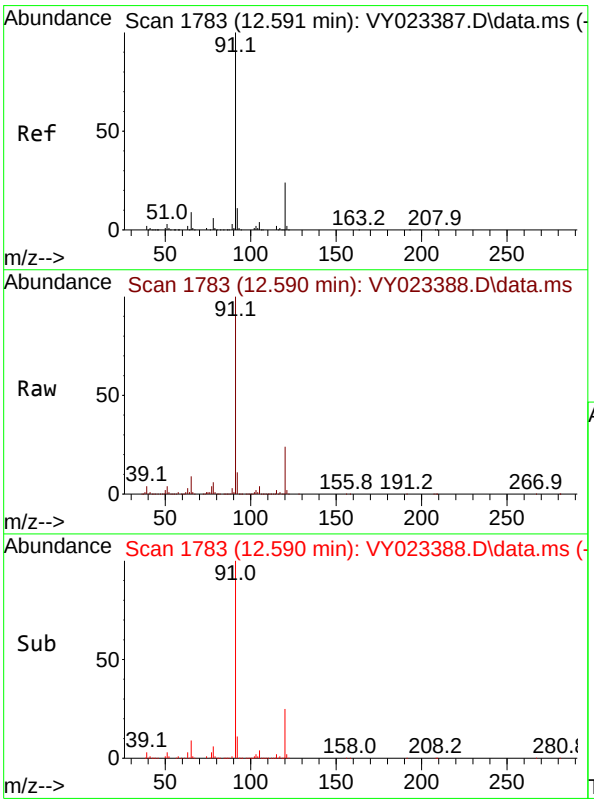
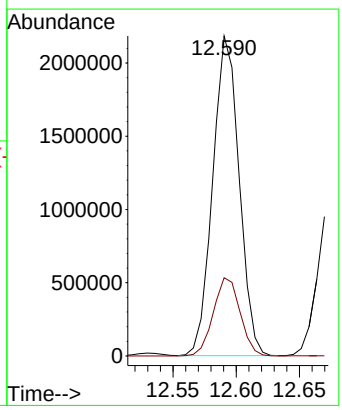
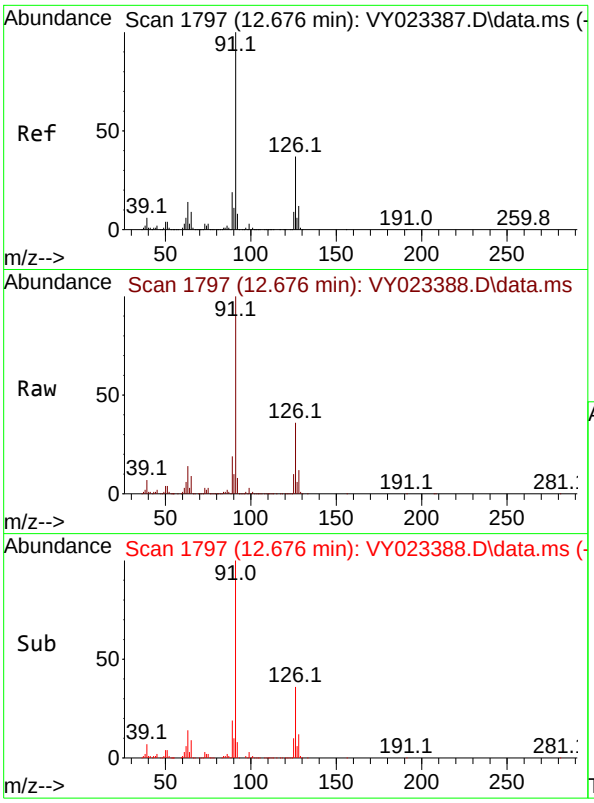



#78
n-propylbenzene
Concen: 100.958 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 91 Resp: 3165894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.8 | 12.3 | 36.8 |






#79
2-Chlorotoluene
Concen: 99.426 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 91 Resp: 180012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 37.2 | 18.5 | 55.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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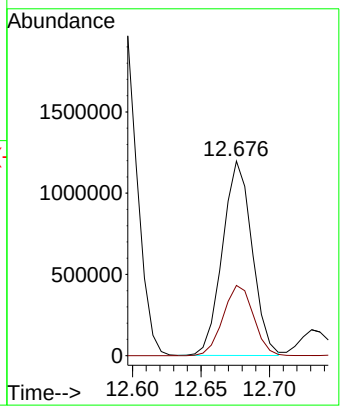
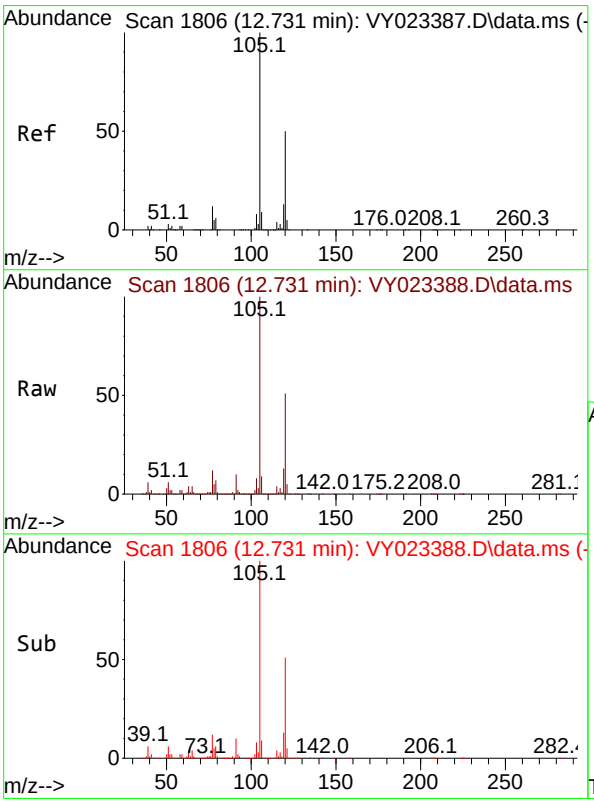
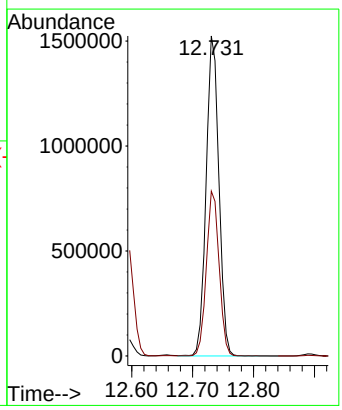


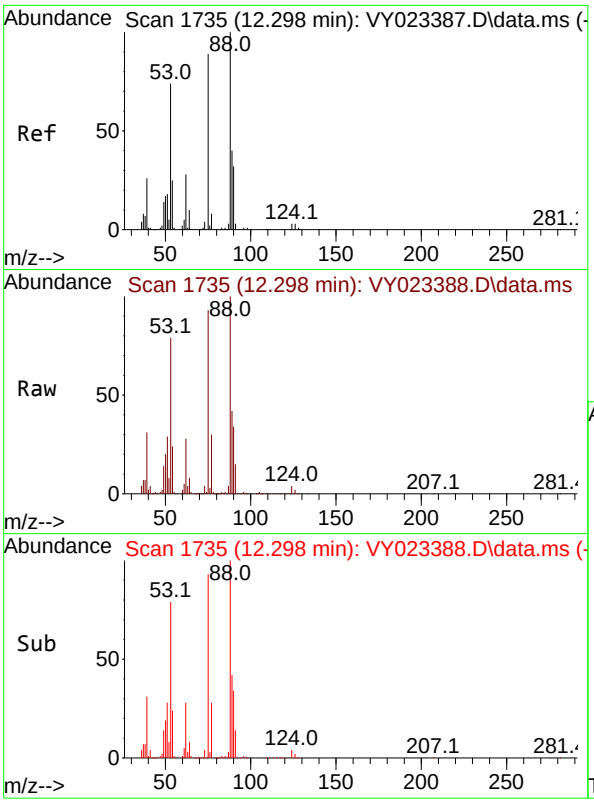




#80
1,3,5-Trimethylbenzene
Concen: 102.374 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:105 Resp: 2219080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 51.6 | 25.4 | 76.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 101.273 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 75 Resp: 14830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 84.5 | 68.6 | 102.8 |
| 89 | 46.6 | 39.0 | 58.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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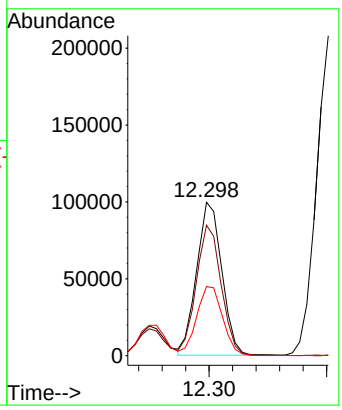
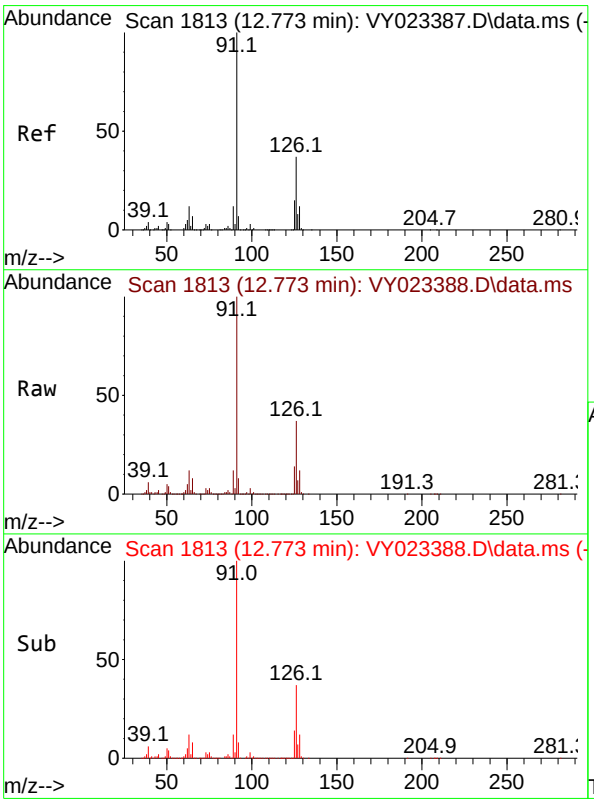
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

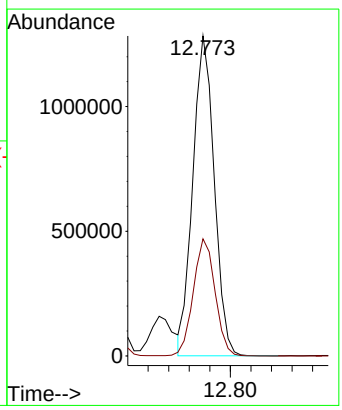


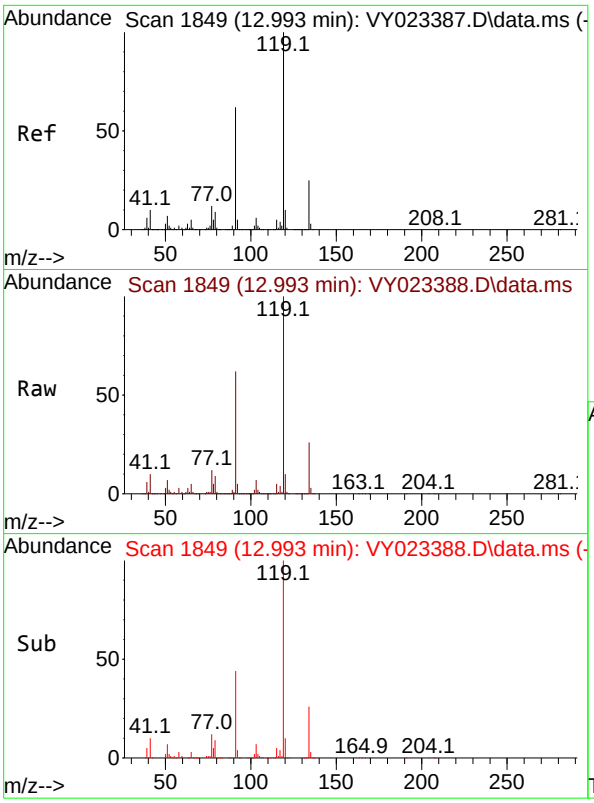




#82
4-Chlorotoluene
Concen: 98.060 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 91 Resp: 1854165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 37.4 | 18.4 | 55.4 |

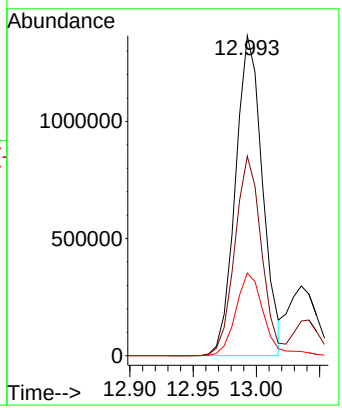





#83
tert-Butylbenzene
Concen: 102.684 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:119 Resp: 202819

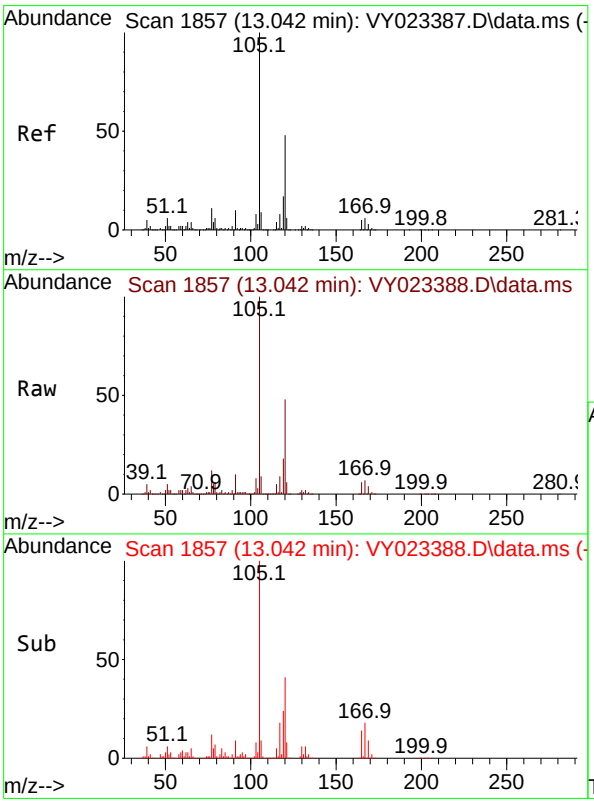
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 61.9 | 29.9 | 89.8 |
| 134 | 26.9 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

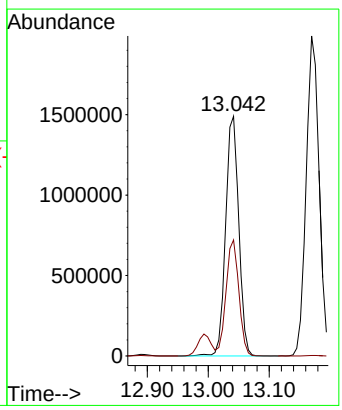
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

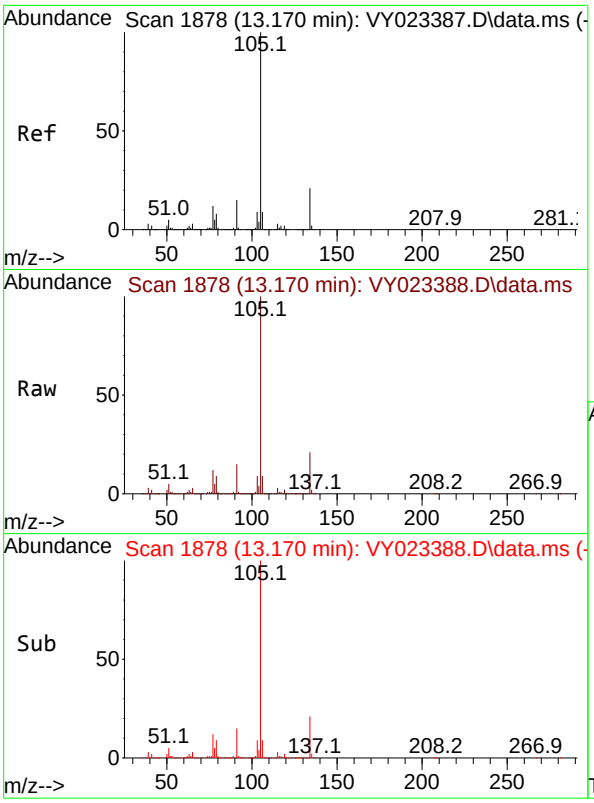



#84
1,2,4-Trimethylbenzene
Concen: 103.853 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:105 Resp: 2227197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.4 | 23.8 | 71.2 |






#85
sec-Butylbenzene
Concen: 102.530 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

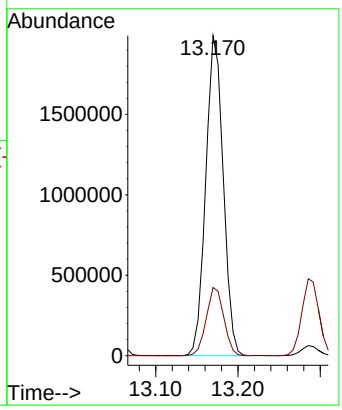
Tgt Ion:105 Resp: 293294

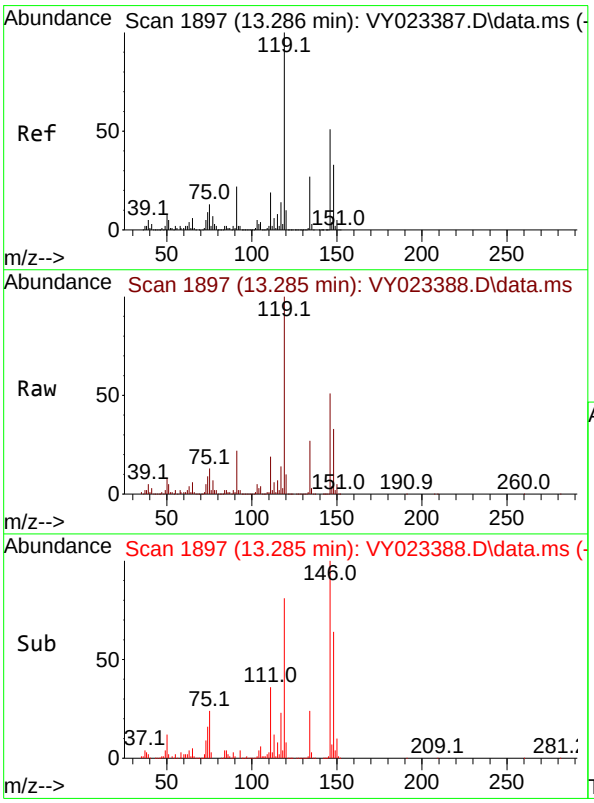
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.5 | 10.7 | 32.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

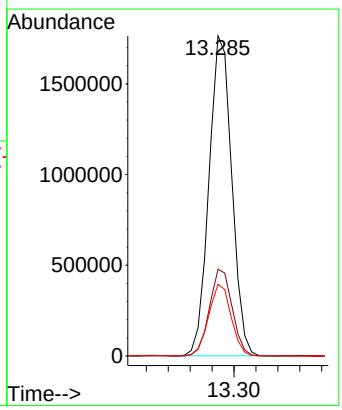


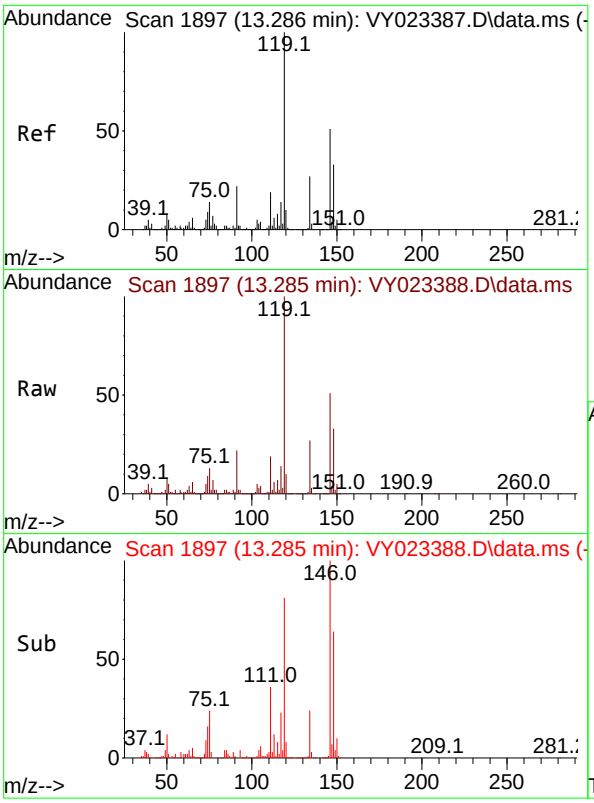




#86
p-Isopropyltoluene
Concen: 105.408 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:119 Resp: 2548220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 27.0 | 13.6 | 40.7 |
| 91 | 22.1 | 10.9 | 32.9 |






#87
1,3-Dichlorobenzene
Concen: 100.735 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

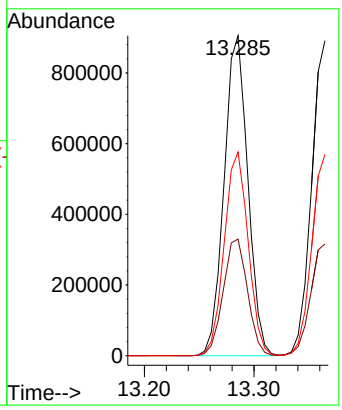
Tgt Ion:146 Resp: 136171

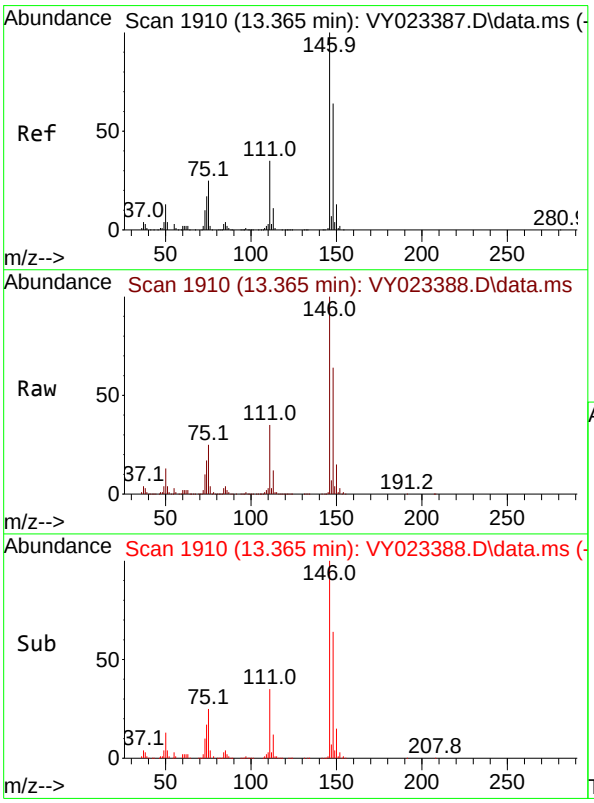
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.4 | 18.7 | 56.1 |
| 148 | 64.1 | 31.9 | 95.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

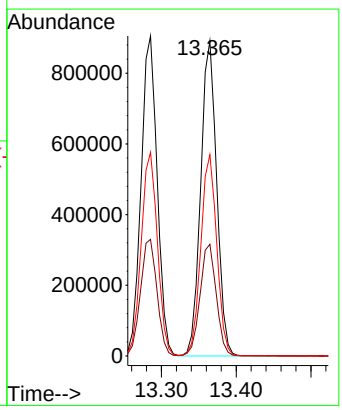


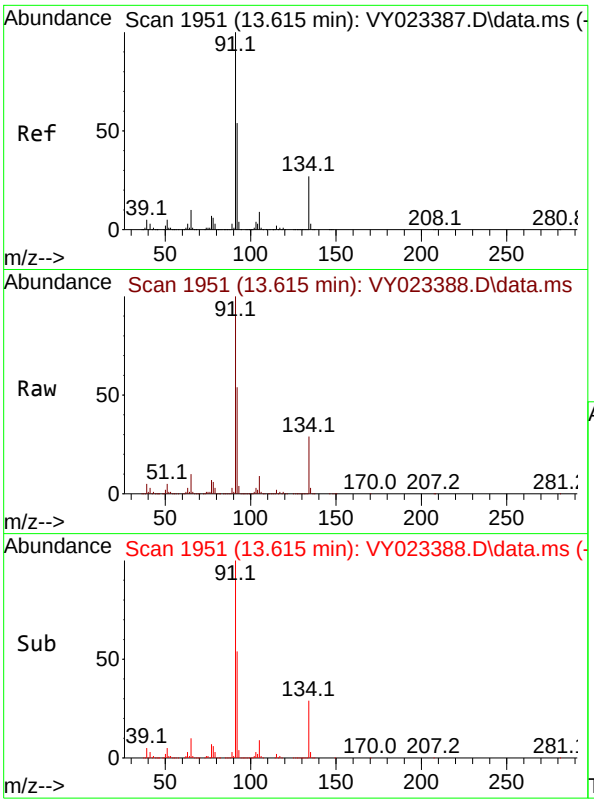




#88
1,4-Dichlorobenzene
Concen: 98.734 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:146 Resp: 1323618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 36.0 | 18.0 | 54.0 |
| 148 | 63.8 | 31.9 | 95.7 |

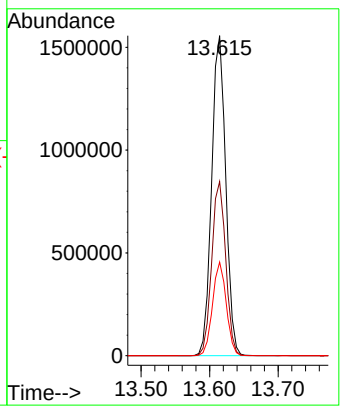





#89
n-Butylbenzene
Concen: 104.174 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 91 Resp: 222374

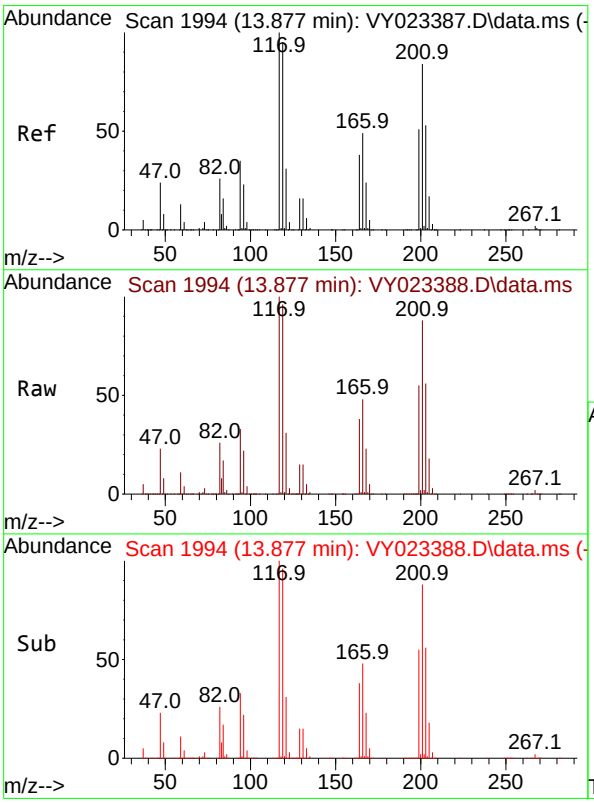
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.2 | 27.0 | 80.8 |
| 134 | 28.6 | 14.1 | 42.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

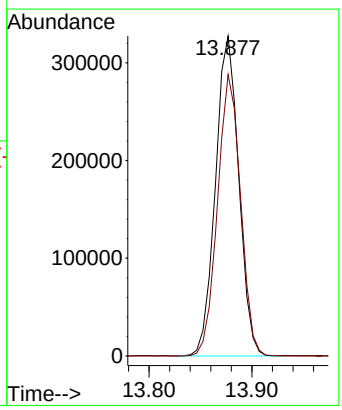
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

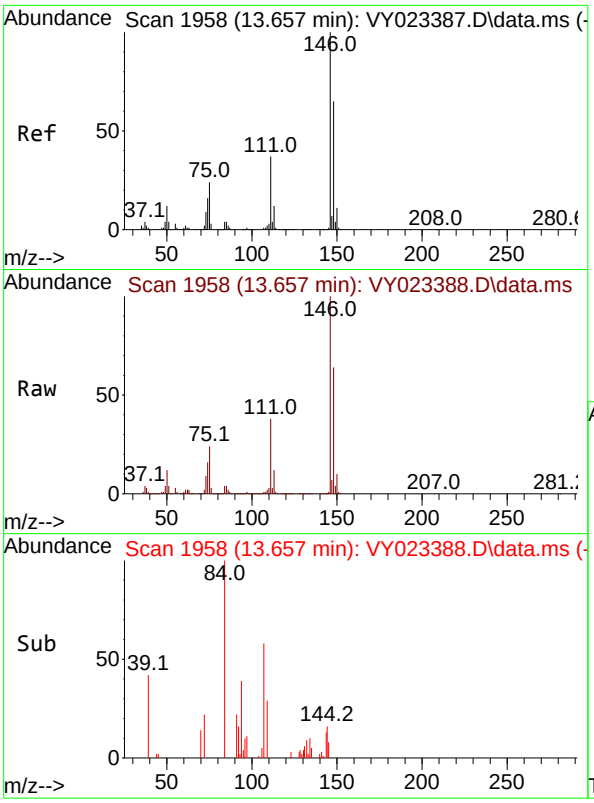



#90
Hexachloroethane
Concen: 98.069 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:117 Resp: 514746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 86.8 | 43.8 | 131.4 |

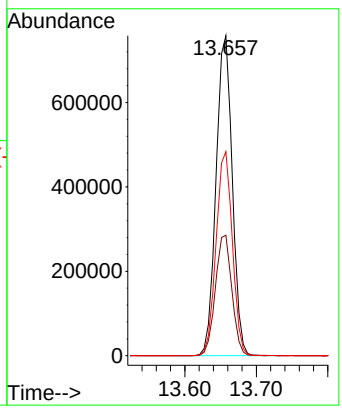





#91
1,2-Dichlorobenzene
Concen: 101.146 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:146 Resp: 119304

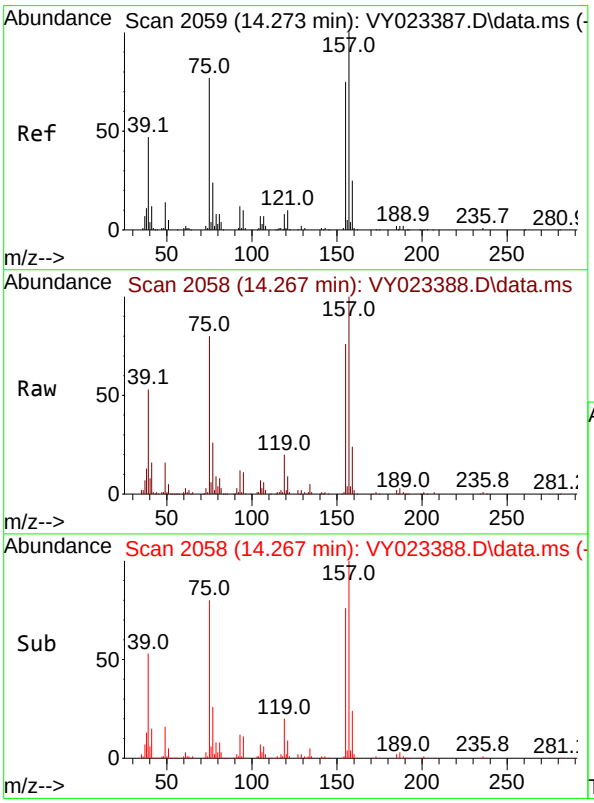
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.3 | 19.0 | 57.0 |
| 148 | 64.1 | 32.1 | 96.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

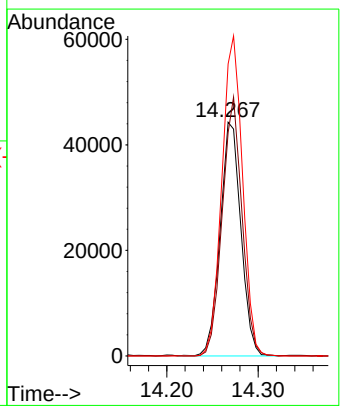
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

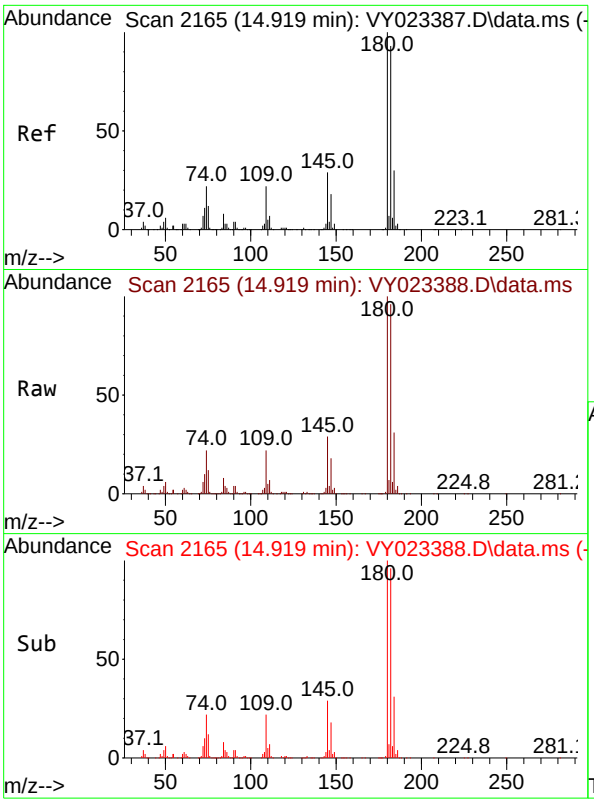



#92
1,2-Dibromo-3-Chloropropane
Concen: 99.458 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. -0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 75 Resp: 70107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 105.2 | 50.0 | 150.0 |
| 157 | 135.9 | 63.8 | 191.5 |

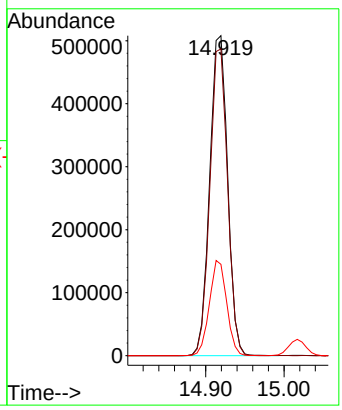





#93
1,2,4-Trichlorobenzene
Concen: 116.031 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:180 Resp: 80632

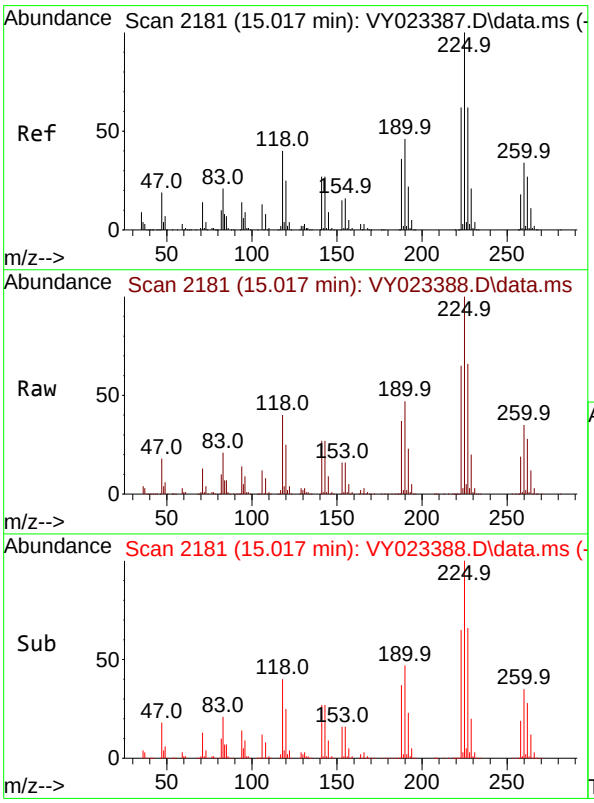
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.9 | 47.9 | 143.6 |
| 145 | 28.7 | 14.7 | 44.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

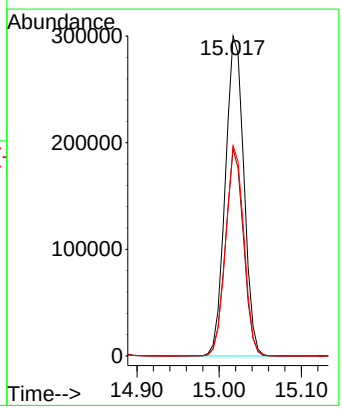
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

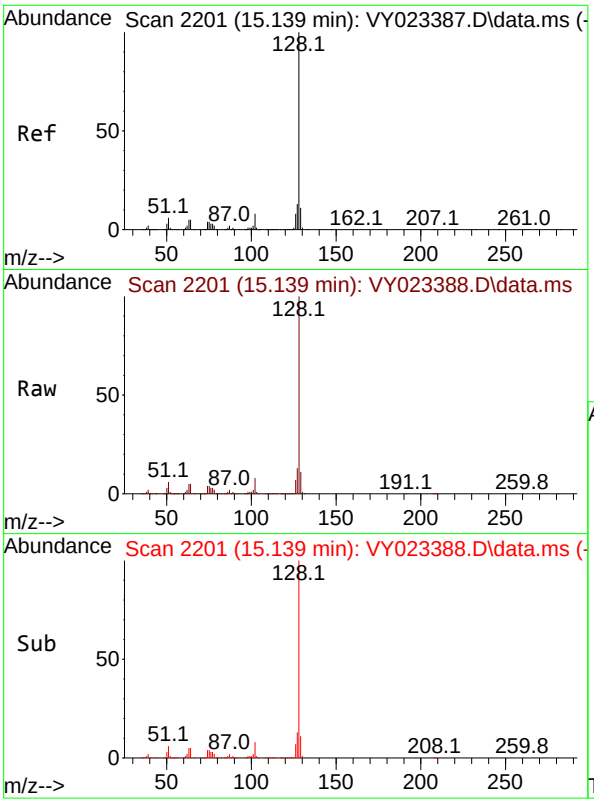



#94
Hexachlorobutadiene
Concen: 108.557 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:225 Resp: 470072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 30.8 | 92.3 |
| 227 | 64.6 | 31.9 | 95.7 |

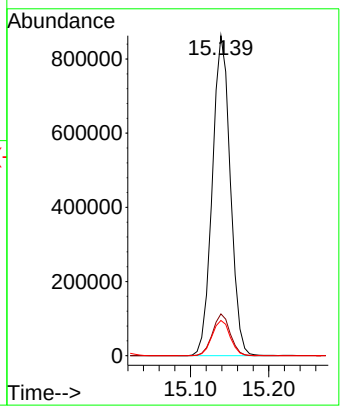





#95
Naphthalene
Concen: 124.485 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:128 Resp: 137829

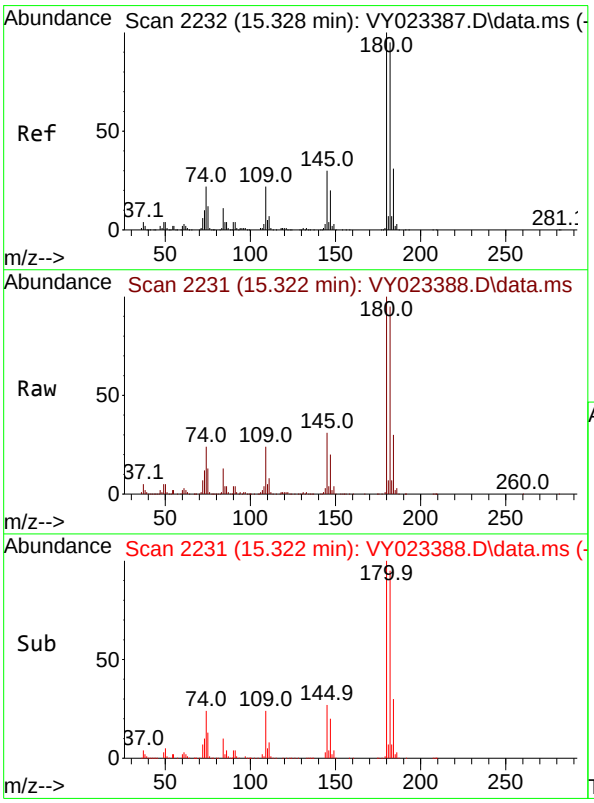
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.4 | 15.6 |
| 129 | 11.1 | 8.9 | 13.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

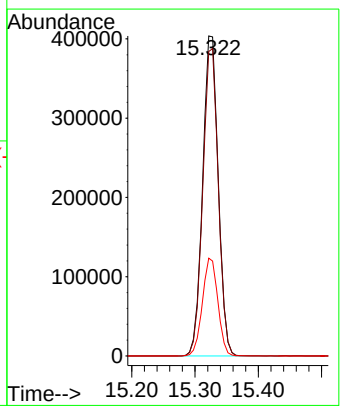
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025




#96
1,2,3-Trichlorobenzene
Concen: 115.034 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:180 Resp: 693477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.9 | 143.8 |
| 145 | 30.3 | 15.3 | 45.9 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023389.D
Acq On : 07 Oct 2025 12:32
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:45:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 588489 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 855488 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 765357 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 402368 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 714730 | 140.236 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 280.480%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 778632 | 149.977 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 299.960%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 2912319 | 148.741 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 297.480%# | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 990964 | 160.423 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 320.840%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 587619 | 126.766 | ug/l | 97 |
| 3) Chloromethane | 2.068 | 50 | 825167 | 125.233 | ug/l | 100 |
| 4) Vinyl Chloride | 2.208 | 62 | 1118134 | 134.387 | ug/l | 100 |
| 5) Bromomethane | 2.580 | 94 | 915389 | 134.118 | ug/l | 98 |
| 6) Chloroethane | 2.726 | 64 | 756912 | 133.994 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 1549160 | 144.948 | ug/l | 100 |
| 8) Diethyl Ether | 3.452 | 74 | 418615 | 149.747 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 786278 | 137.639 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 992925 | 150.409 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 288878 | 963.279 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 781235 | 142.133 | ug/l | 97 |
| 13) Acrolein | 3.653 | 56 | 423418 | 833.323 | ug/l | 100 |
| 14) Allyl chloride | 4.385 | 41 | 988378 | 143.628 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 841857 | 768.735 | ug/l | 99 |
| 16) Acetone | 3.866 | 43 | 789668 | 689.040 | ug/l | 99 |
| 17) Carbon Disulfide | 4.104 | 76 | 2199339 | 128.252 | ug/l | 100 |
| 18) Methyl Acetate | 4.385 | 43 | 505344 | 173.497 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 2056533 | 159.802 | ug/l | 97 |
| 20) Methylene Chloride | 4.616 | 84 | 835005 | 134.365 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 871380 | 142.549 | ug/l | 98 |
| 22) Diisopropyl ether | 6.019 | 45 | 2218430 | 145.375 | ug/l | 99 |
| 23) Vinyl Acetate | 5.958 | 43 | 6377047 | 760.246 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 1398477 | 139.024 | ug/l | 98 |
| 25) 2-Butanone | 6.890 | 43 | 1116343 | 788.091 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 1281633 | 143.391 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 1043574 | 150.505 | ug/l | 98 |
| 28) Bromochloromethane | 7.244 | 49 | 482210 | 123.567 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 687719 | 817.972 | ug/l | 100 |
| 30) Chloroform | 7.421 | 83 | 1542715 | 142.221 | ug/l | 99 |
| 31) Cyclohexane | 7.701 | 56 | 1192778 | 134.268 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 1405131 | 144.305 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 1069665 | 146.031 | ug/l | 100 |
| 37) Ethyl Acetate | 6.982 | 43 | 460027 | 158.853 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 1290353 | 151.646 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 1496612 | 159.580 | ug/l | 99 |
| 40) Benzene | 8.079 | 78 | 3366812 | 147.442 | ug/l | 98 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023389.D
Acq On : 07 Oct 2025 12:32
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 08 04:45:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 246974 | 164.212 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 866250 | 149.063 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 946087 | 167.955 | ug/l | | 100 |
| 44) Trichloroethene | 8.866 | 130 | 966011 | 150.740 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 752286 | 146.403 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 483702 | 153.895 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 1202247 | 151.965 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 463614 | 176.368 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.225 | 88 | 123991 | 3809.726 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 2516107 | 872.045 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 2272574 | 156.786 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 1123644 | 165.367 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 1296713 | 159.654 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 652242 | 156.020 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.438 | 69 | 886127 | 184.048 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 1049593 | 155.122 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 2040136 | 968.559 | ug/l | | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 1776032 | 889.038 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 935577 | 164.084 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 639895 | 162.699 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 1046931 | 136.739 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 2563176 | 154.117 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 923367 | 157.870 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 4341801 | 159.957 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.627 | 106 | 3502137 | 321.899 | ug/l | | 99 |
| 69) o-Xylene | 11.950 | 106 | 1694987 | 168.295 | ug/l | | 98 |
| 70) Styrene | 11.969 | 104 | 2830398 | 170.203 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 602644 | 172.115 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.249 | 105 | 4290662 | 160.084 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 890882 | 177.866 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 737773 | 165.010 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 565754m | 142.542 | ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 1111318 | 161.555 | ug/l | | 100 |
| 78) n-propylbenzene | 12.591 | 91 | 4932015 | 156.465 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 2822049 | 155.063 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 3496249 | 160.460 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 245190 | 166.570 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 2902371 | 152.701 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 3220384 | 162.197 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 3503639 | 162.527 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.170 | 105 | 4560715 | 158.609 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.286 | 119 | 4024712 | 165.622 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 2165278 | 159.350 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 2090133 | 155.104 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.615 | 91 | 3505715 | 163.379 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 799264 | 151.487 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 1862691 | 157.101 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 116273 | 164.099 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 1272621 | 182.183 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 711748 | 163.518 | ug/l | | 98 |
| 95) Naphthalene | 15.139 | 128 | 2277549 | 204.639 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 1110193 | 183.206 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023389.D
Acq On : 07 Oct 2025 12:32
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:45:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 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

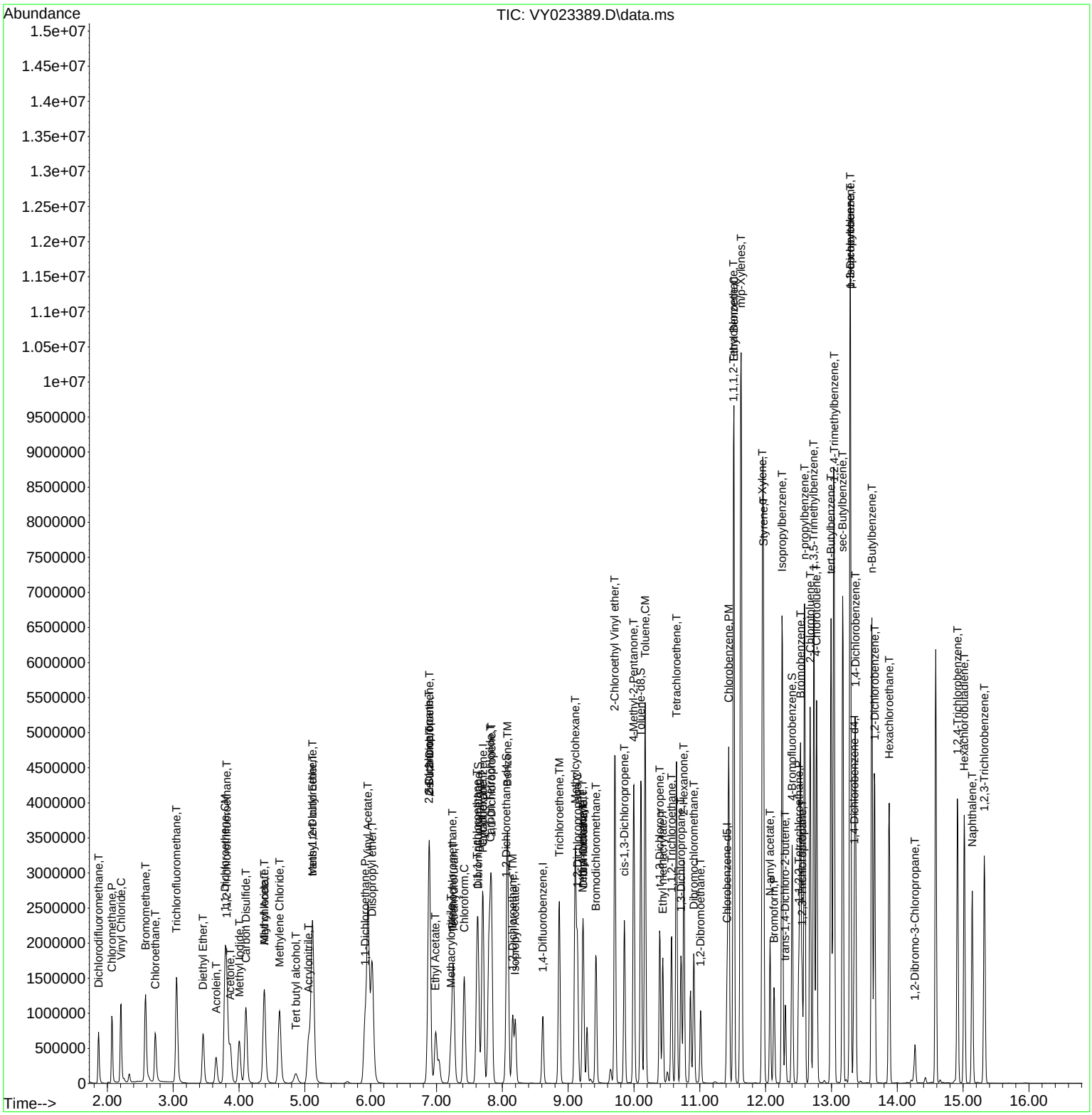
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023389.D
Acq On : 07 Oct 2025 12:32
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

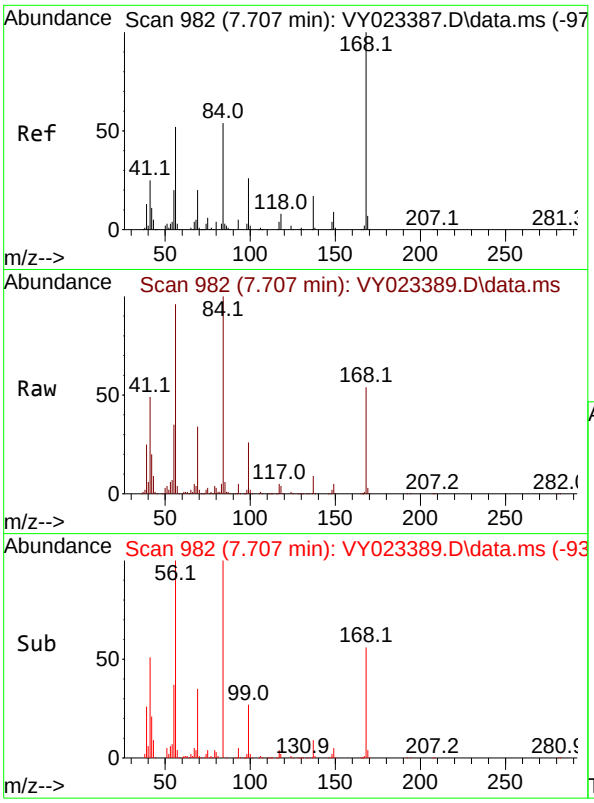
Quant Time: Oct 08 04:45:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

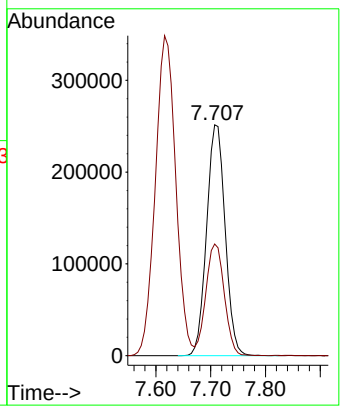





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:168 Resp: 58848

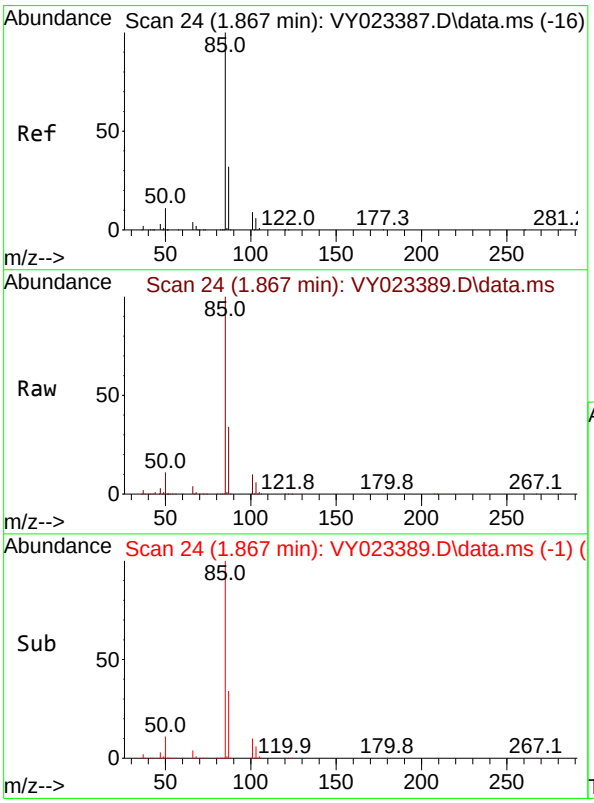
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 48.3 | 39.7 | 59.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

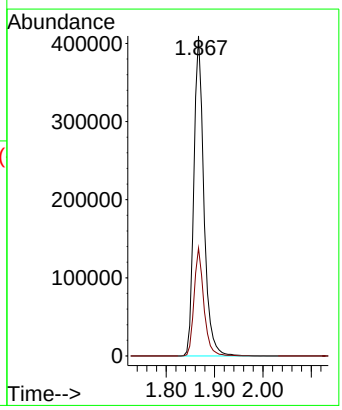
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

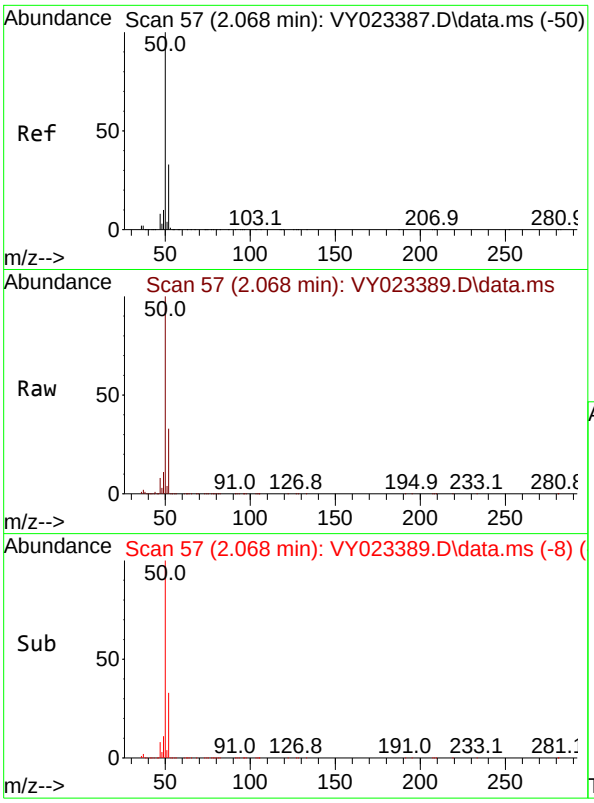



#2
Dichlorodifluoromethane
Concen: 126.766 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 85 Resp: 587619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.7 | 16.0 | 47.9 |

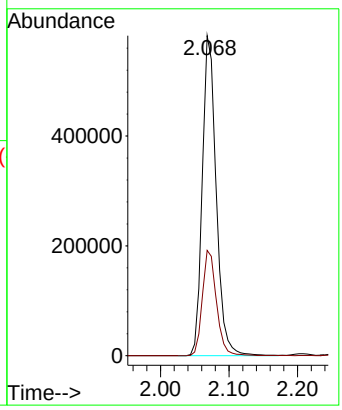





#3
Chloromethane
Concen: 125.233 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 50 Resp: 82516

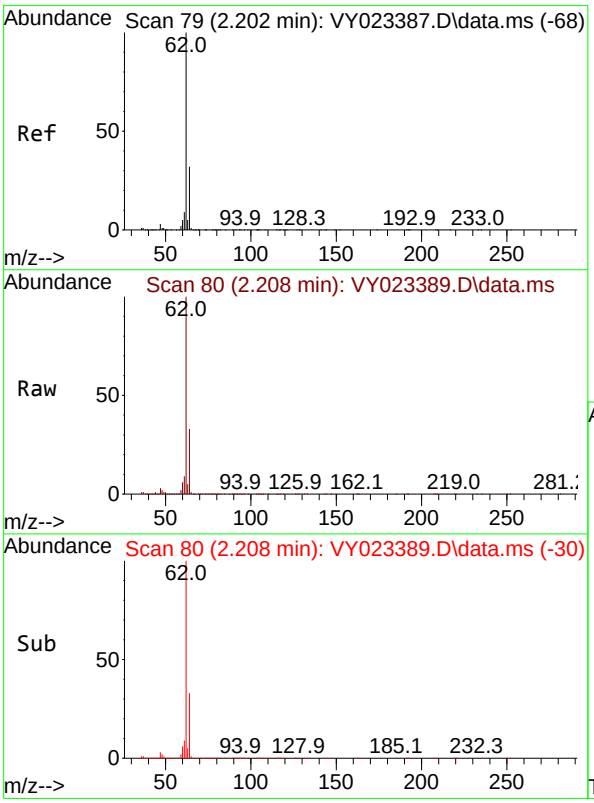
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 26.2 | 39.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

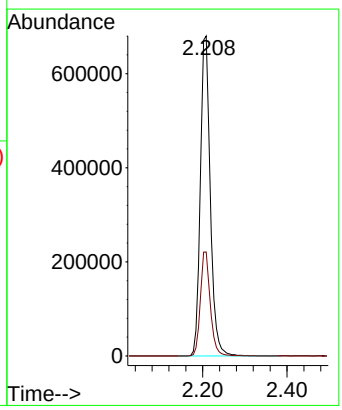
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

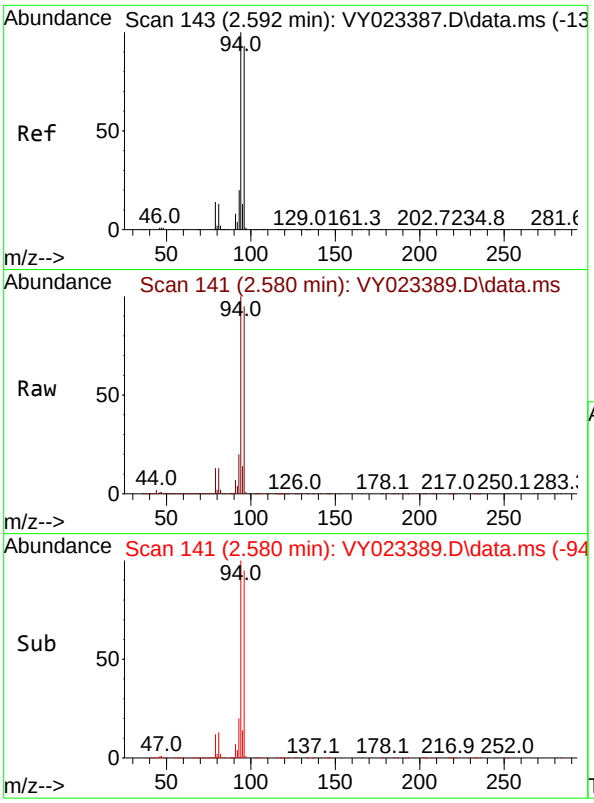



#4
Vinyl Chloride
Concen: 134.387 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 62 Resp: 1118134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.5 | 25.8 | 38.8 |

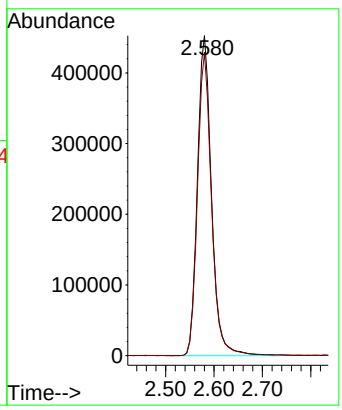





#5
Bromomethane
Concen: 134.118 ug/l
RT: 2.580 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 94 Resp: 91538

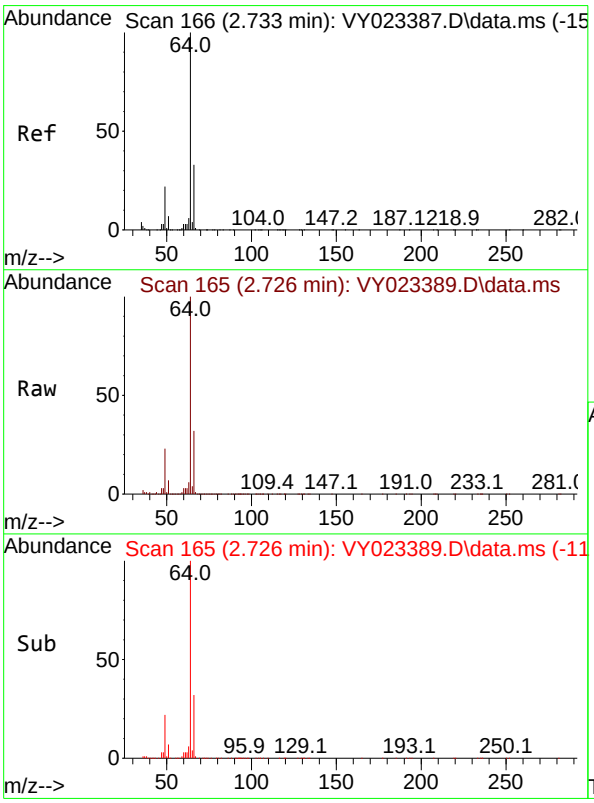
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.8 | 74.5 | 111.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

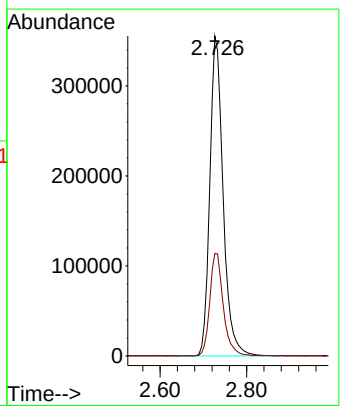
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

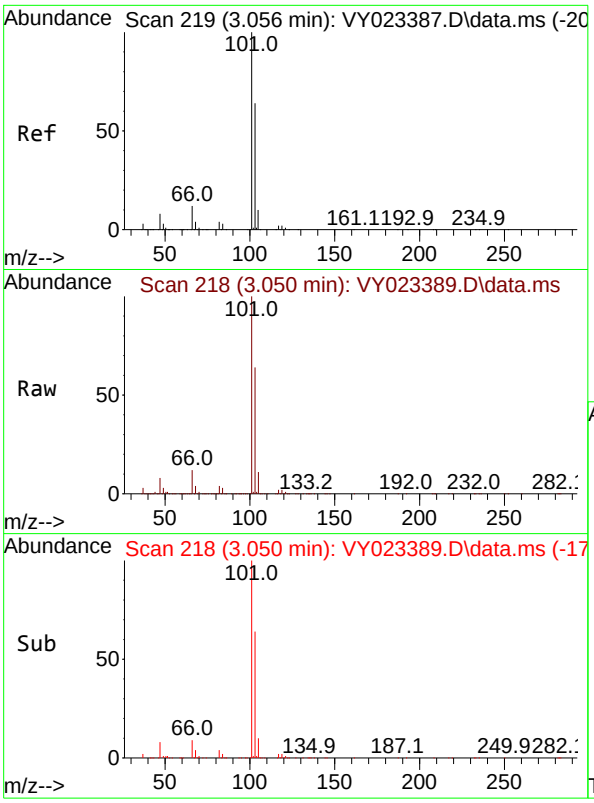



#6
Chloroethane
Concen: 133.994 ug/l
RT: 2.726 min Scan# 165
Delta R.T. -0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 64 Resp: 756912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.0 | 26.2 | 39.4 |






#7
Trichlorofluoromethane
Concen: 144.948 ug/l
RT: 3.050 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

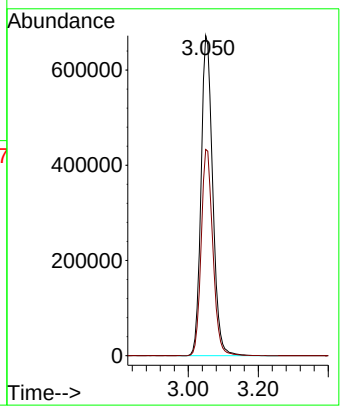
Tgt Ion:101 Resp: 154916

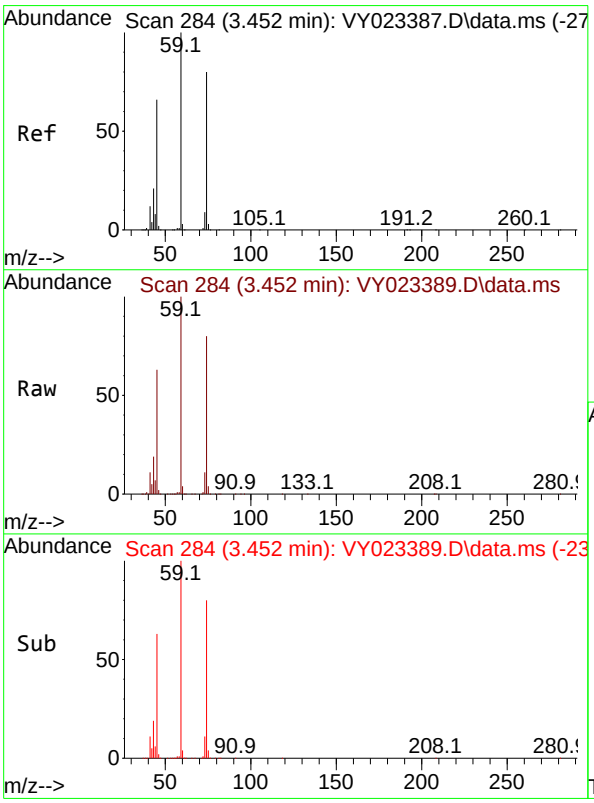
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.4 | 51.3 | 76.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

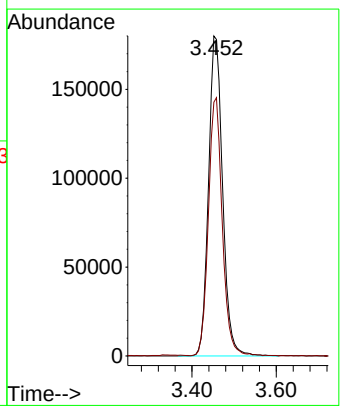


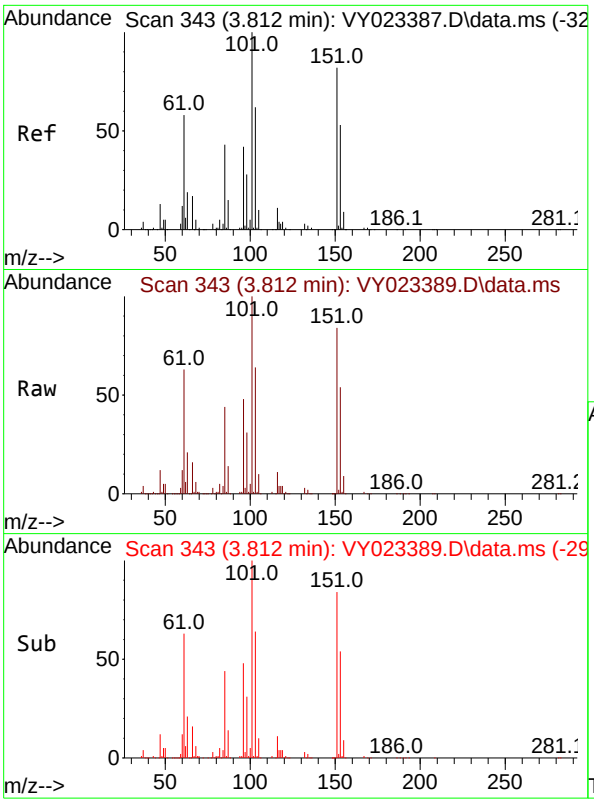




#8
Diethyl Ether
Concen: 149.747 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 74 Resp: 418615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 79.7 | 39.9 | 119.7 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 137.639 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

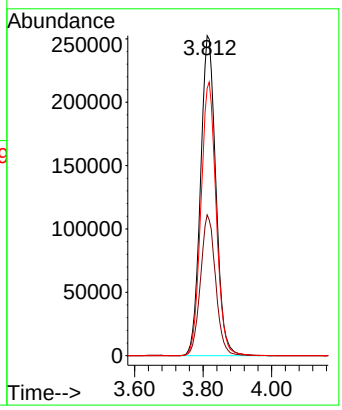
Tgt Ion:101 Resp: 78627

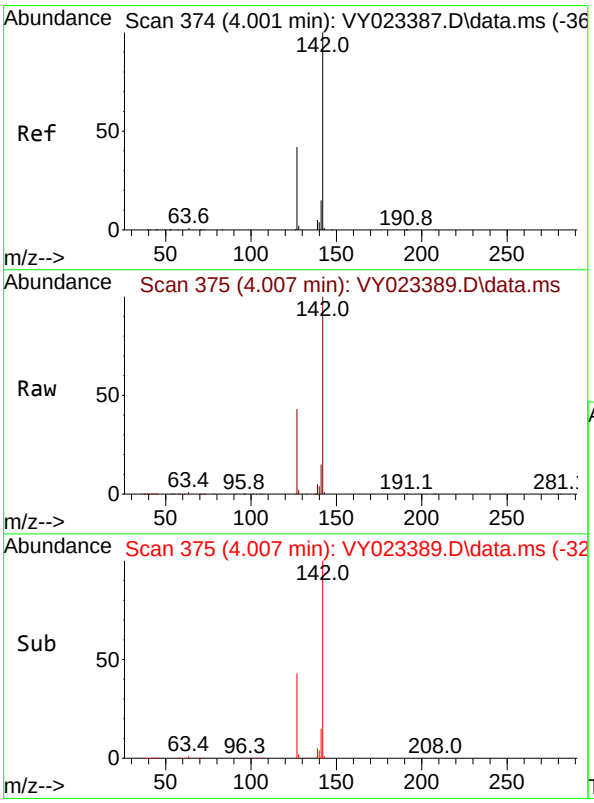
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.5 | 34.6 | 51.8 |
| 151 | 85.2 | 67.0 | 100.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

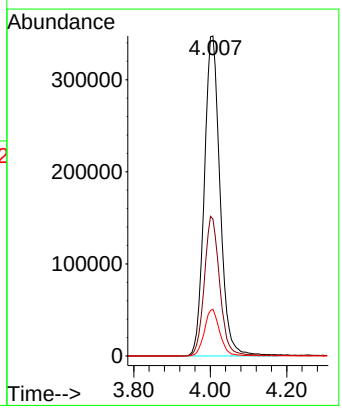


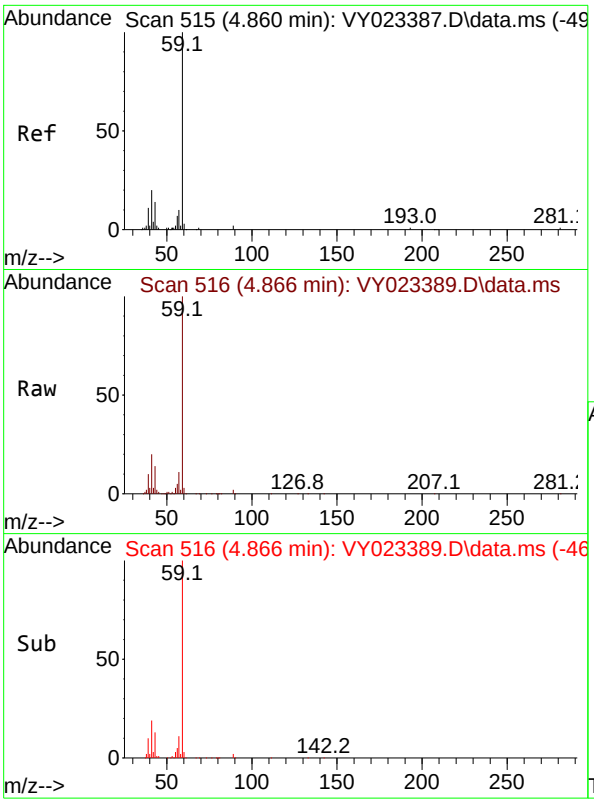




#10
Methyl Iodide
Concen: 150.409 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:142 Resp: 992925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 42.8 | 34.8 | 52.2 |
| 141 | 14.1 | 11.6 | 17.4 |

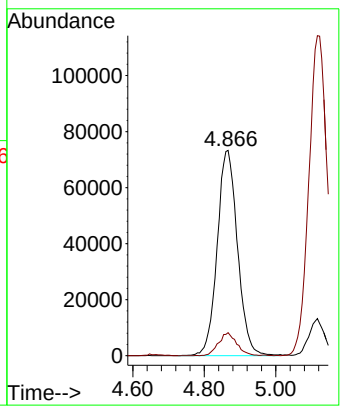





#11
Tert butyl alcohol
Concen: 963.279 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 59 Resp: 28887

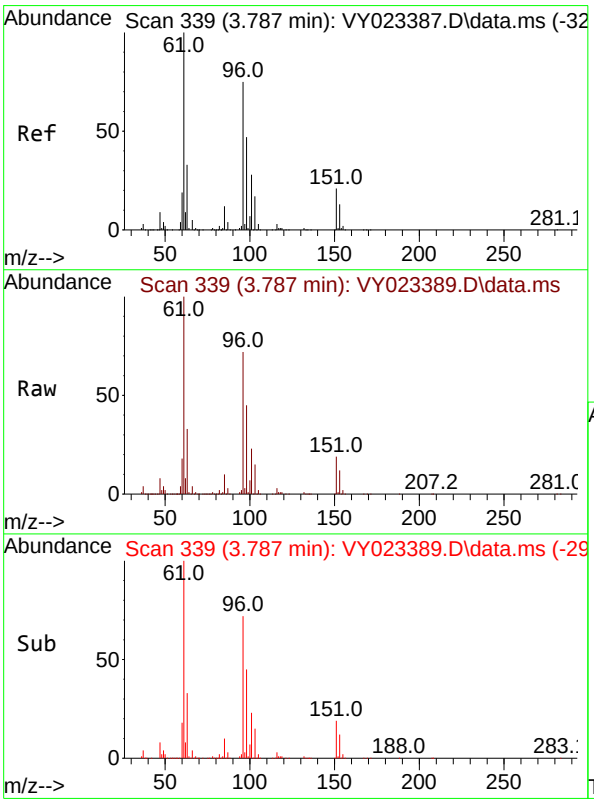
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.1 | 8.3 | 12.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

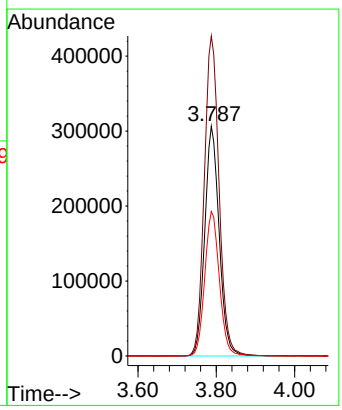
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

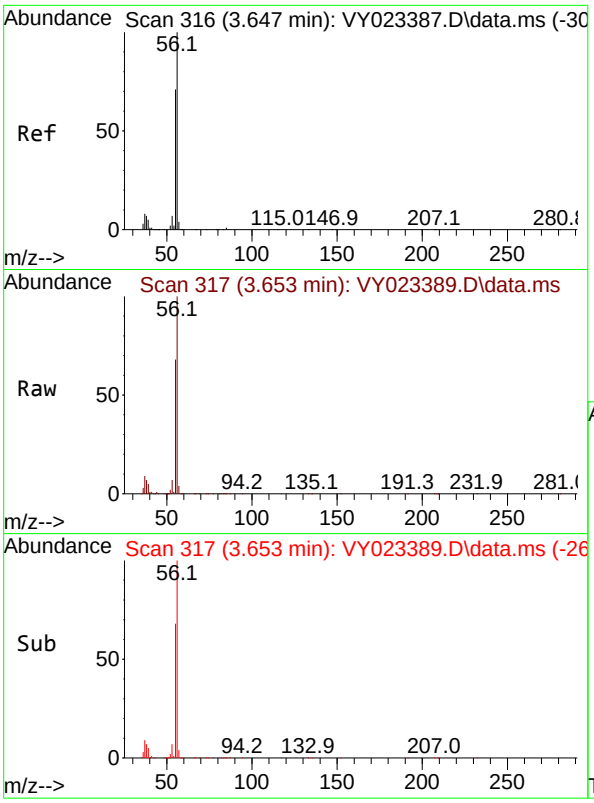



#12
1,1-Dichloroethene
Concen: 142.133 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 96 Resp: 781235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.3 | 106.7 | 160.1 |
| 98 | 62.9 | 50.2 | 75.4 |

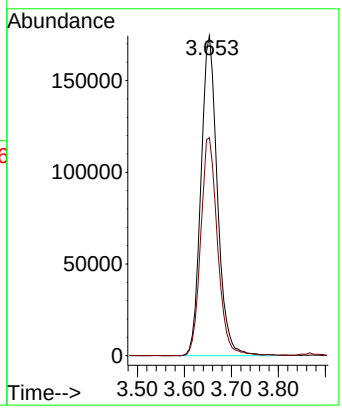





#13
Acrolein
Concen: 833.323 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 56 Resp: 42341

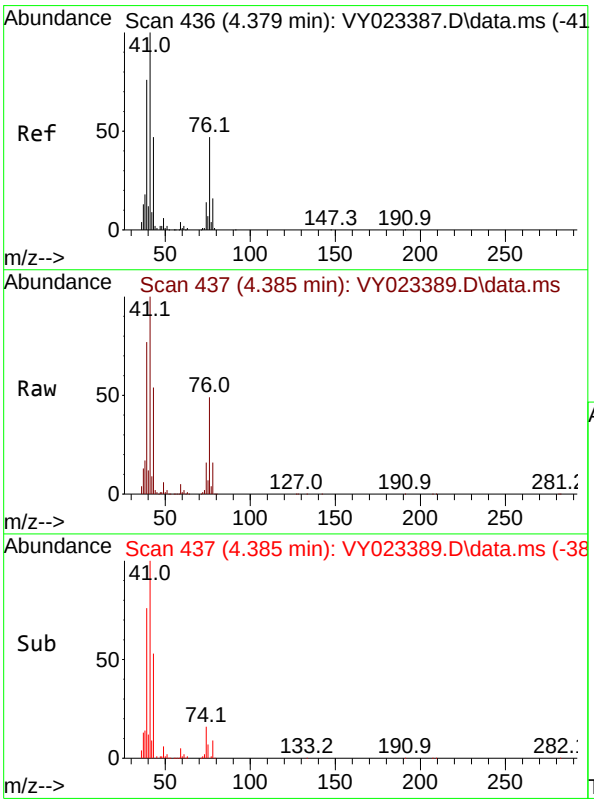
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.7 | 56.1 | 84.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

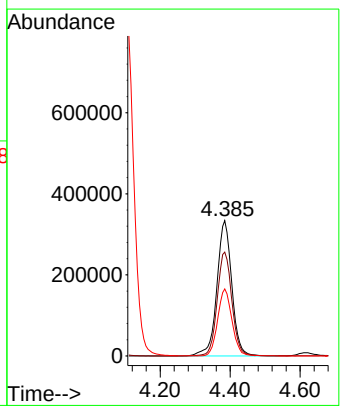
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

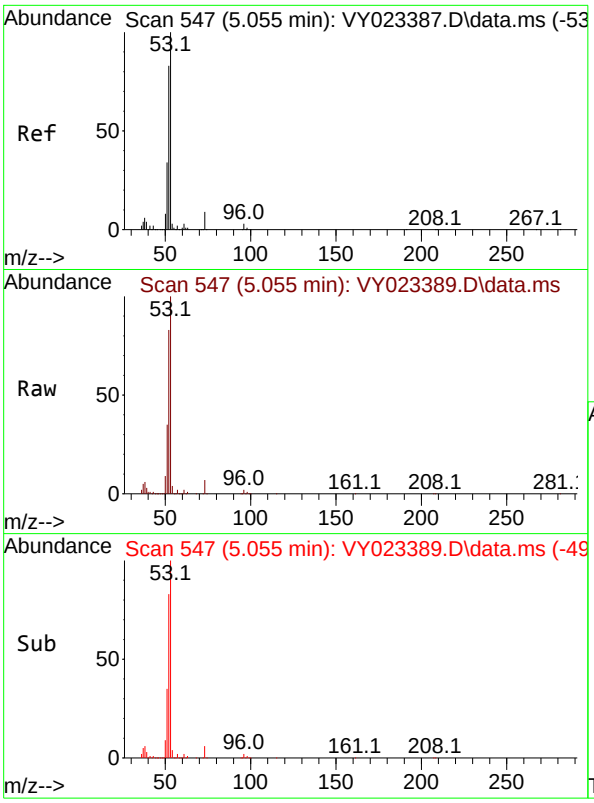



#14
Allyl chloride
Concen: 143.628 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 41 Resp: 988378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 75.6 | 59.9 | 89.9 |
| 76 | 47.2 | 38.0 | 57.0 |

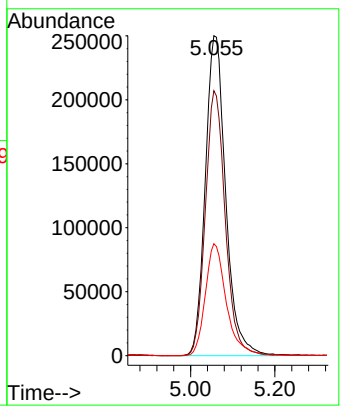





#15
Acrylonitrile
Concen: 768.735 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 53 Resp: 84185

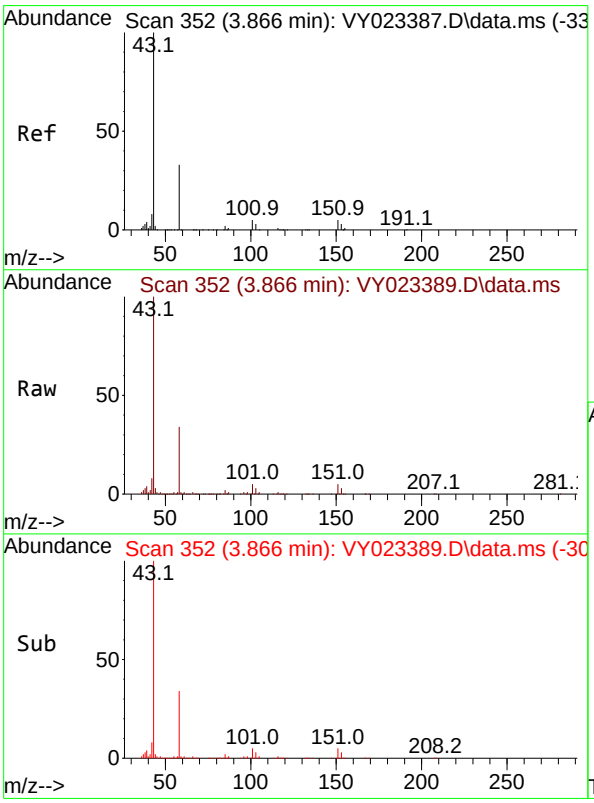
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.9 | 64.6 | 97.0 |
| 51 | 36.0 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

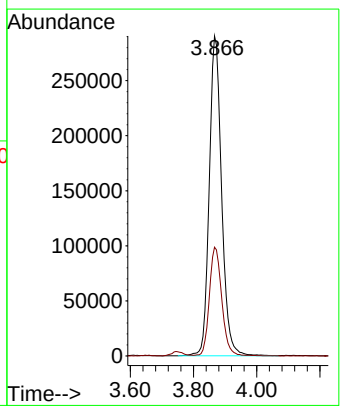
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

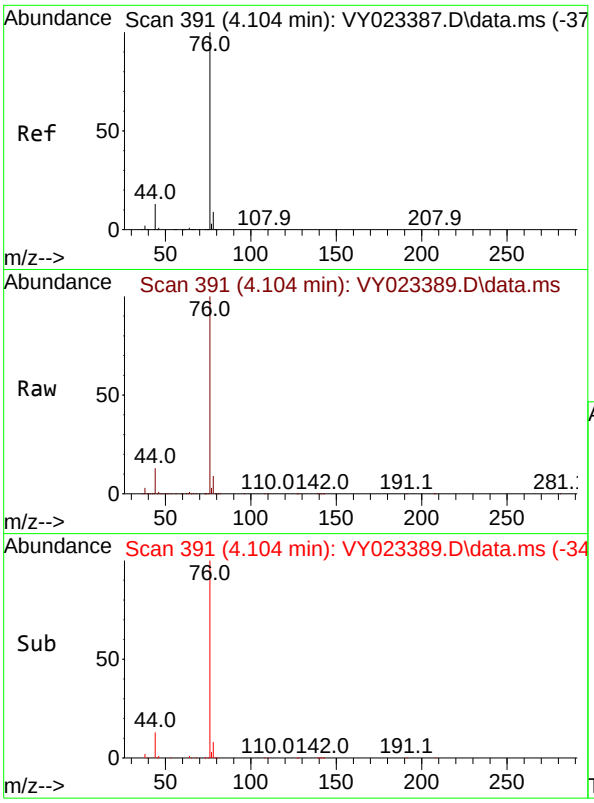



#16
Acetone
Concen: 689.040 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 789668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.0 | 27.7 | 41.5 |

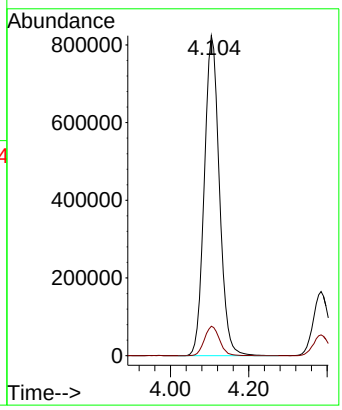





#17
Carbon Disulfide
Concen: 128.252 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 76 Resp: 219933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.3 | 10.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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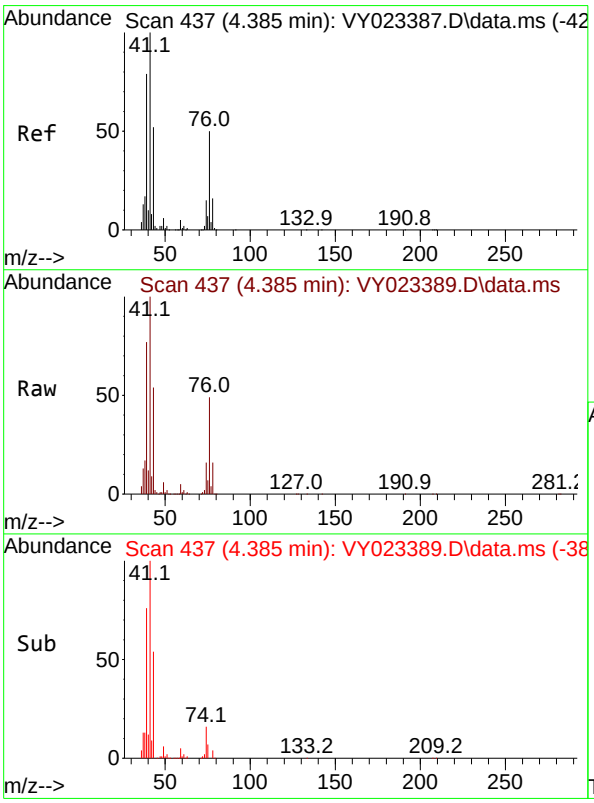
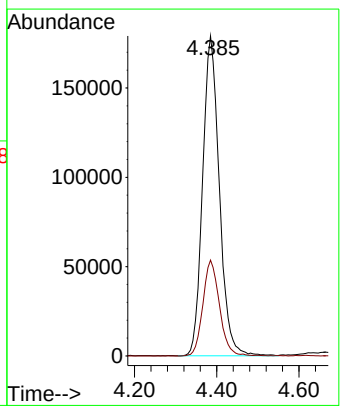
Supervised By :Mahesh Dadoda 10/10/2025

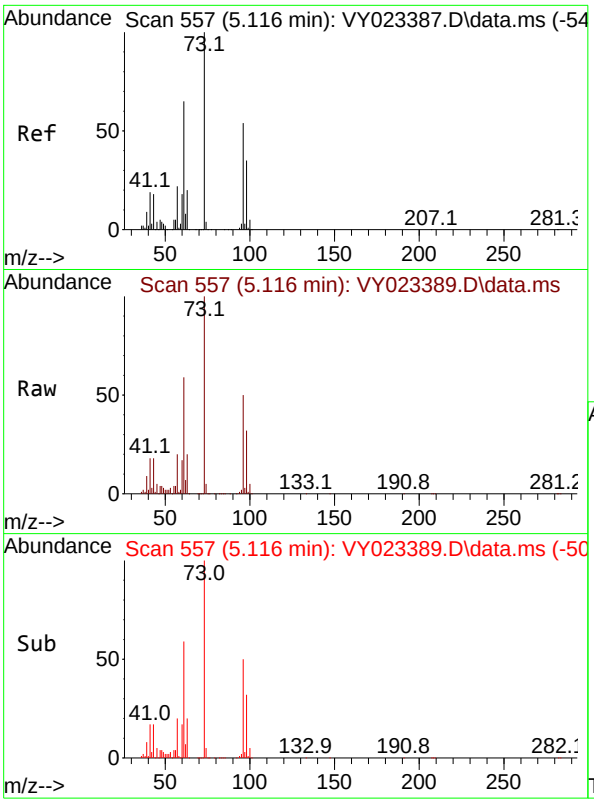



#18
Methyl Acetate
Concen: 173.497 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 505344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 29.7 | 24.2 | 36.4 |

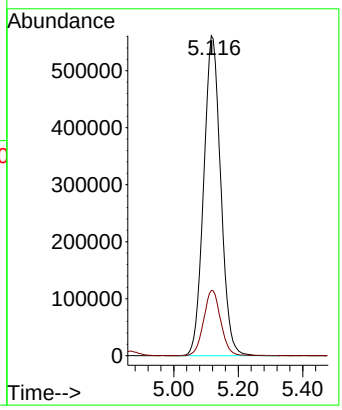





#19
Methyl tert-butyl Ether
Concen: 159.802 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 73 Resp: 205653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.3 | 17.4 | 26.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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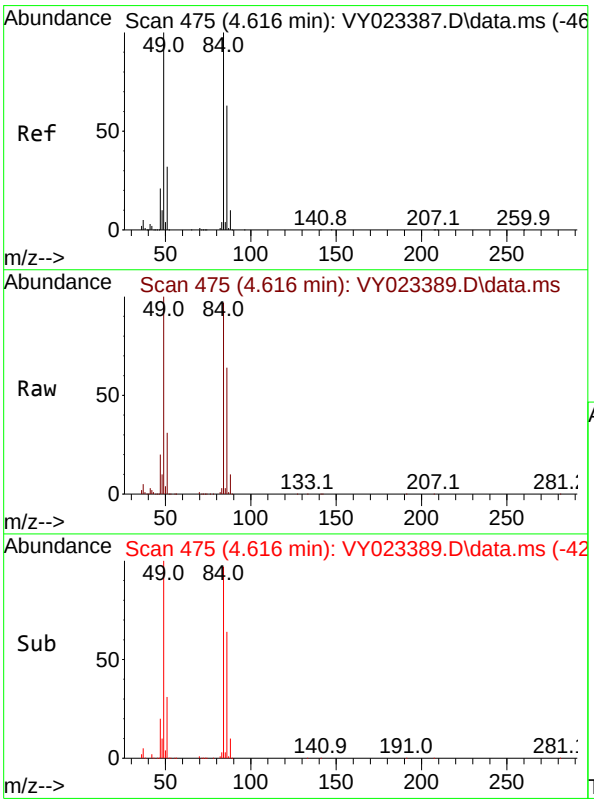
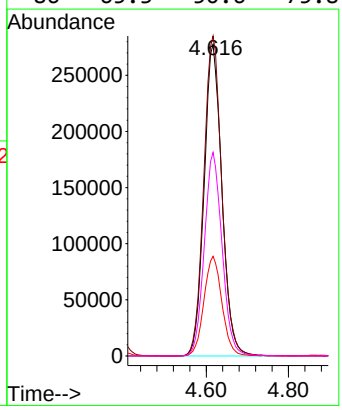
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

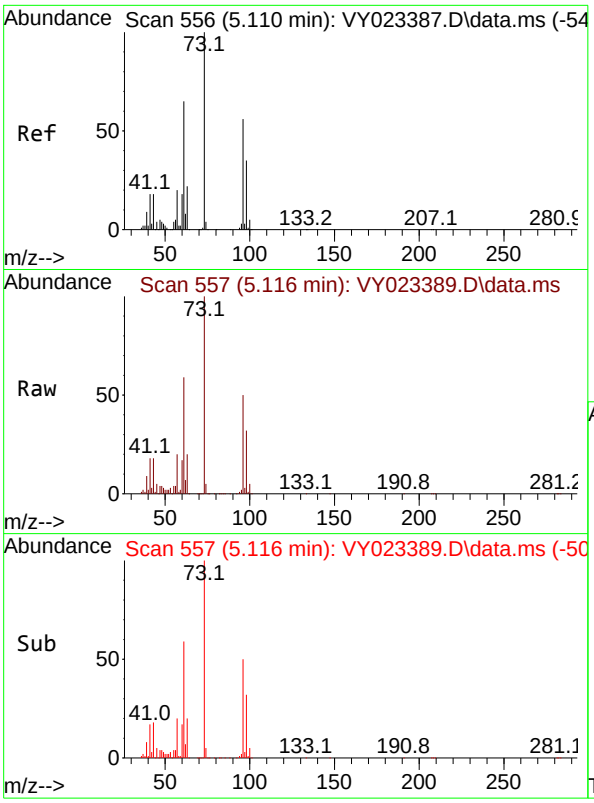



#20
Methylene Chloride
Concen: 134.365 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 84 Resp: 835005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 102.7 | 80.2 | 120.4 |
| 51 | 31.9 | 25.9 | 38.9 |
| 86 | 65.3 | 50.6 | 75.8 |

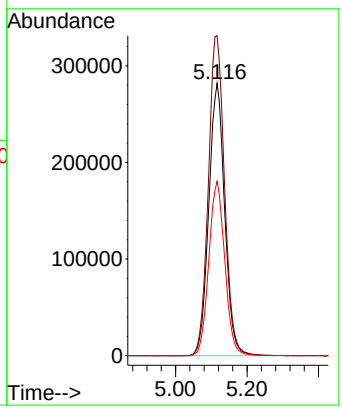





#21
trans-1,2-Dichloroethene
Concen: 142.549 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 96 Resp: 87138

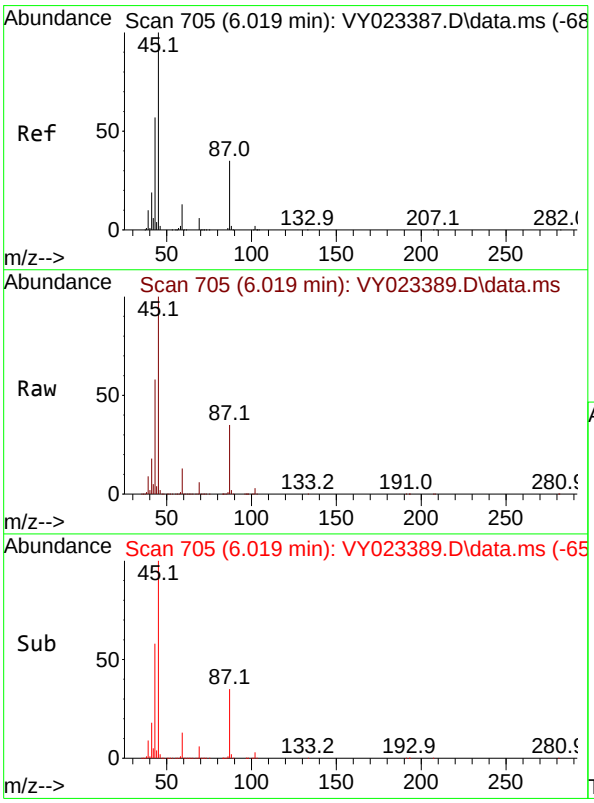
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 117.5 | 92.7 | 139.1 |
| 98 | 64.1 | 49.7 | 74.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

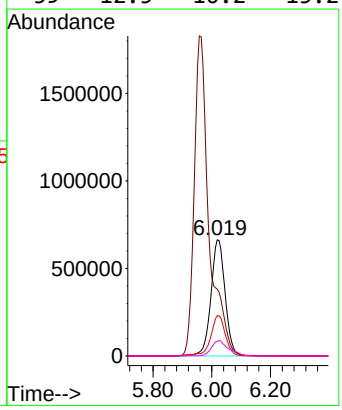
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

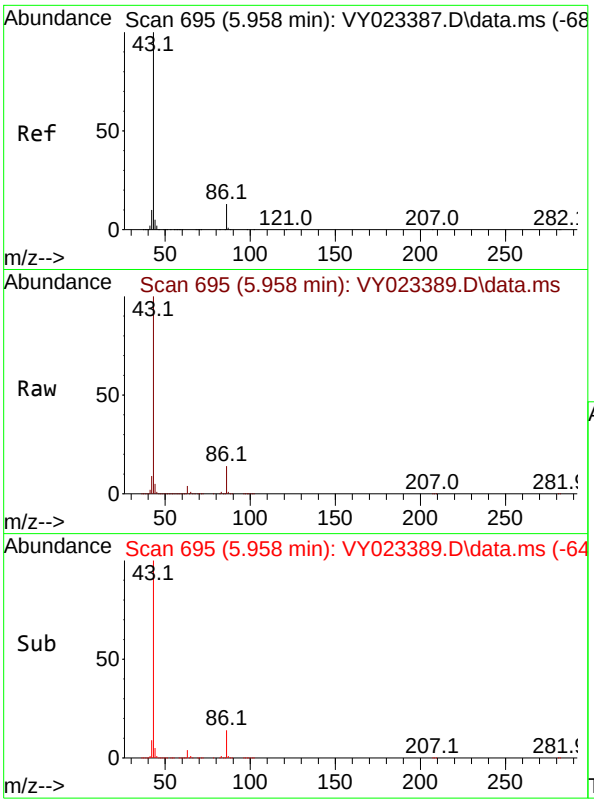



#22
Diisopropyl ether
Concen: 145.375 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 45 Resp: 2218430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 57.6 | 45.6 | 68.4 |
| 87 | 34.7 | 28.1 | 42.1 |
| 59 | 12.5 | 10.2 | 15.2 |






#23
Vinyl Acetate
Concen: 760.246 ug/l
RT: 5.958 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 637704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 13.6 | 10.6 | 15.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
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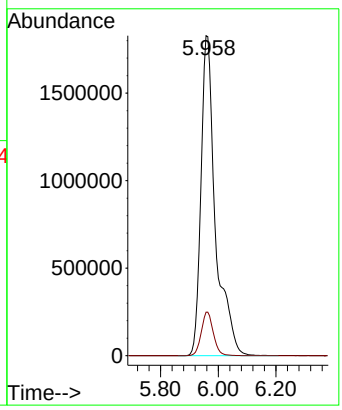
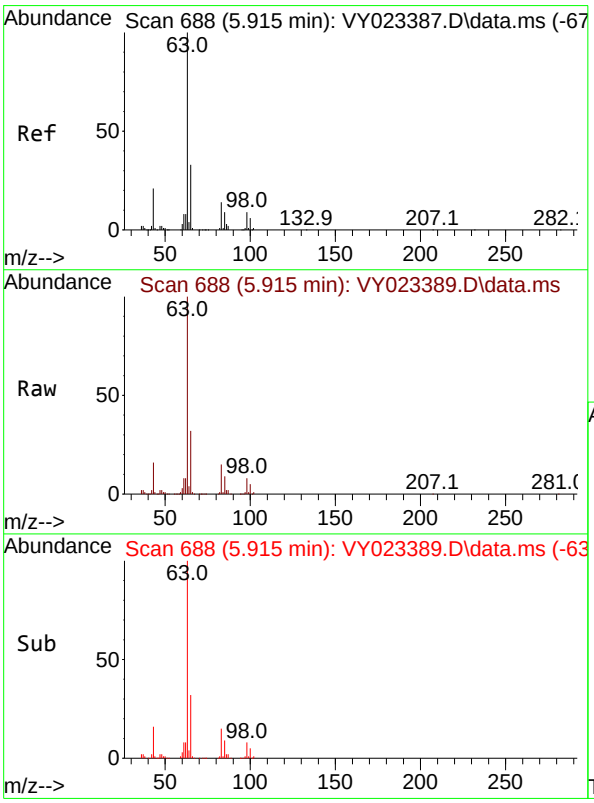
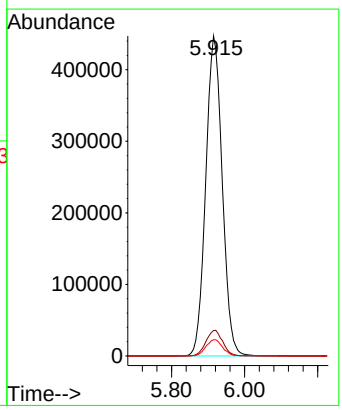


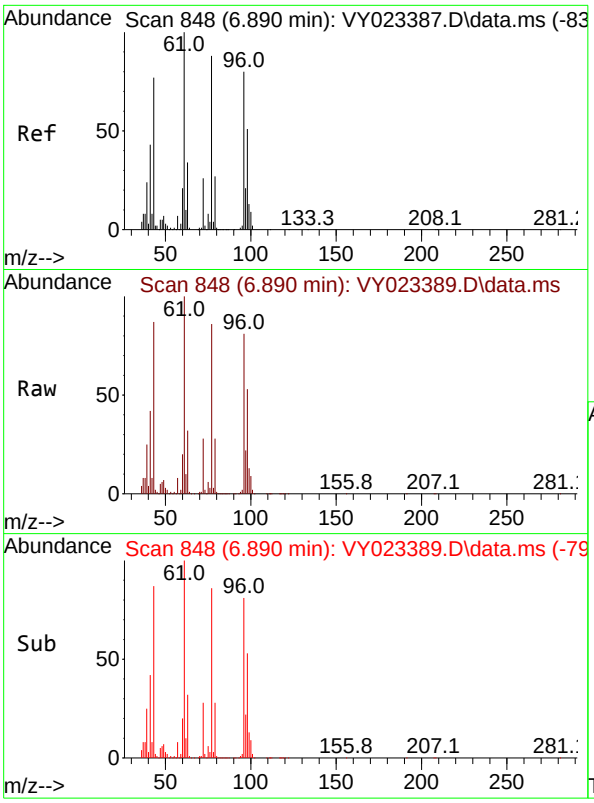




#24
1,1-Dichloroethane
Concen: 139.024 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 63 Resp: 1398477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.0 | 4.3 | 13.1 |
| 100 | 5.0 | 2.8 | 8.4 |






#25
2-Butanone
Concen: 788.091 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

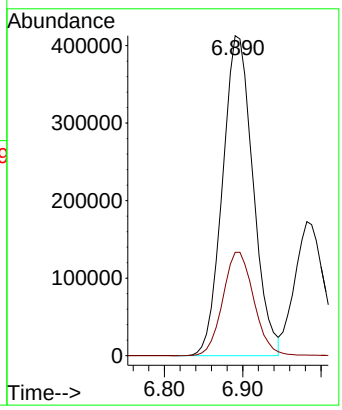
Tgt Ion: 43 Resp: 111634

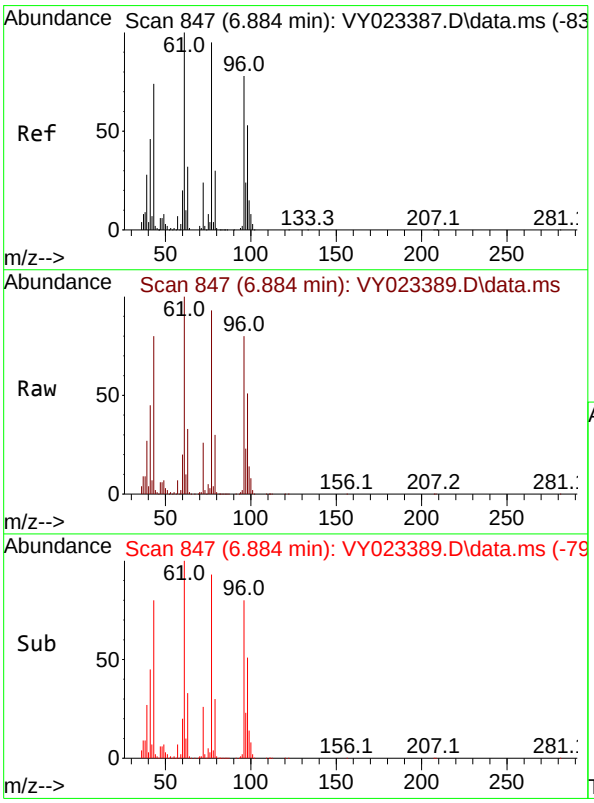
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 32.3 | 27.4 | 41.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

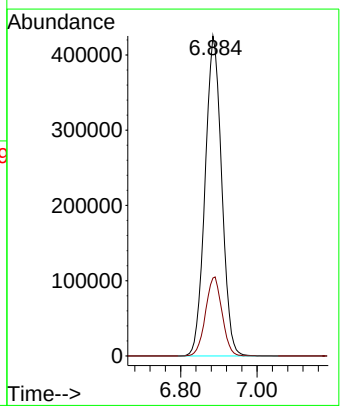


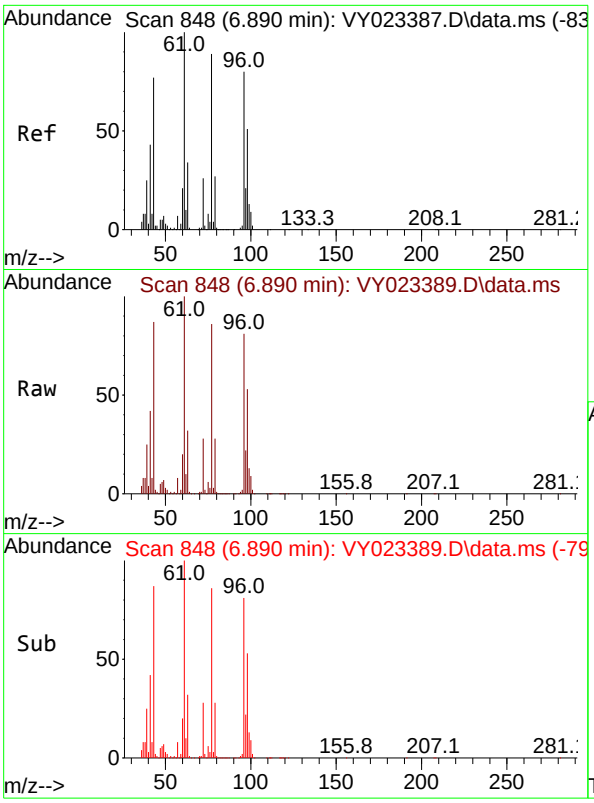




#26
2,2-Dichloropropane
Concen: 143.391 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 77 Resp: 1281633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.6 | 12.1 | 36.3 |






#27
cis-1,2-Dichloroethene
Concen: 150.505 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

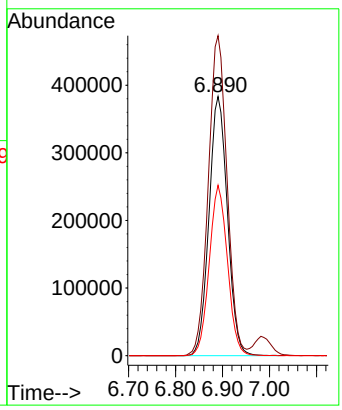
Tgt Ion: 96 Resp: 104357

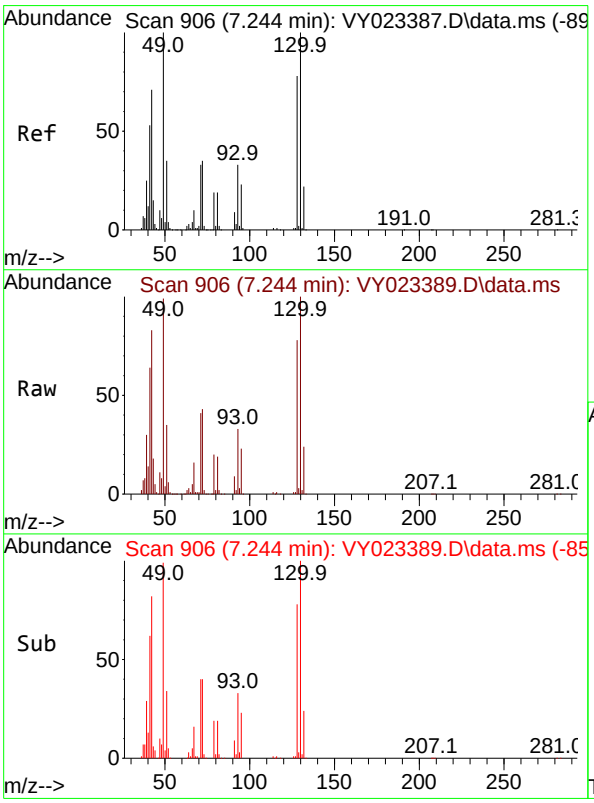
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 125.7 | 0.0 | 258.2 |
| 98 | 65.0 | 0.0 | 132.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

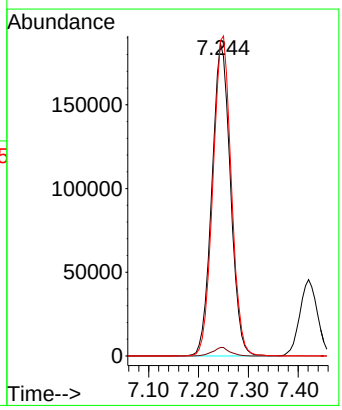


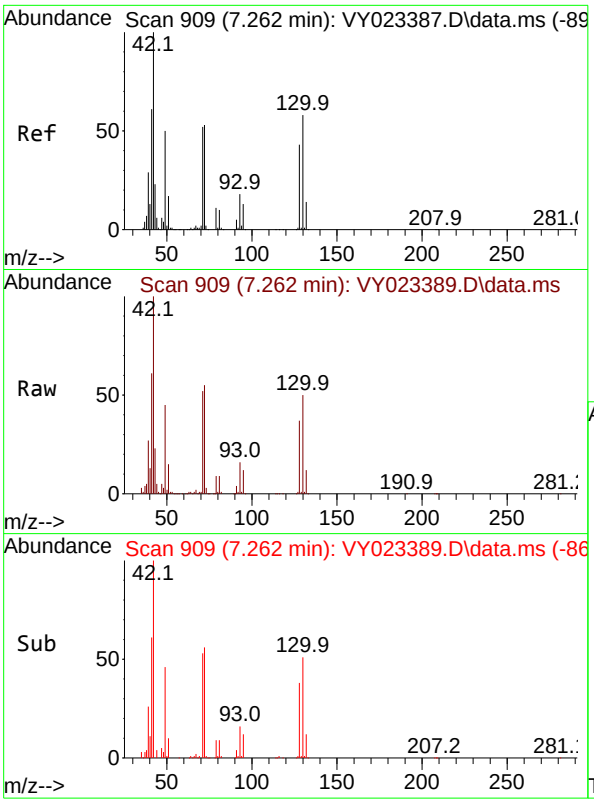




#28
Bromochloromethane
Concen: 123.567 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 49 Resp: 482210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.5 | 0.0 | 5.6 |
| 130 | 101.2 | 81.9 | 122.9 |

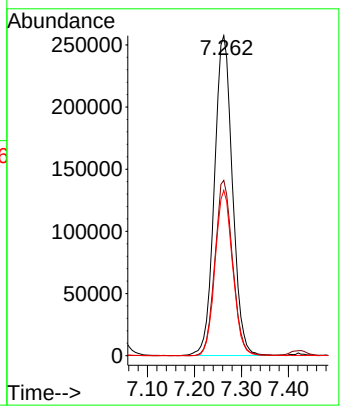





#29
Tetrahydrofuran
Concen: 817.972 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 42 Resp: 68771(

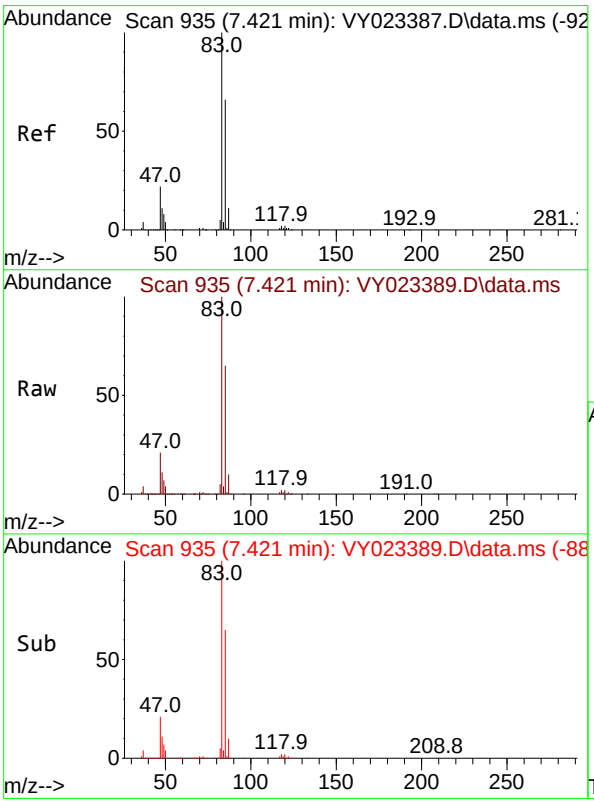
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 53.9 | 43.0 | 64.6 |
| 71 | 50.4 | 40.1 | 60.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

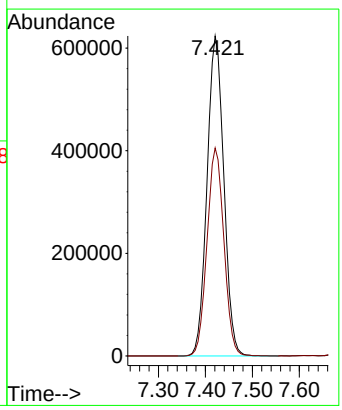
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

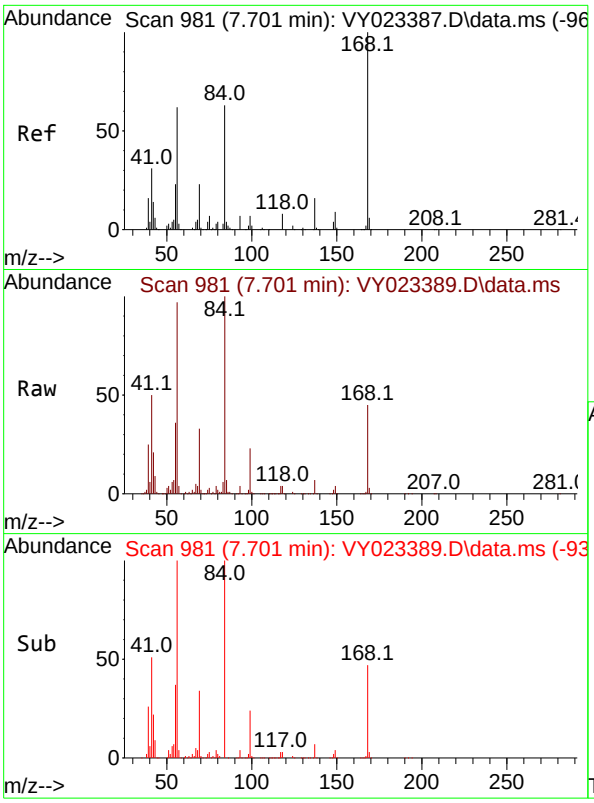



#30
Chloroform
Concen: 142.221 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 83 Resp: 1542715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.0 | 52.5 | 78.7 |

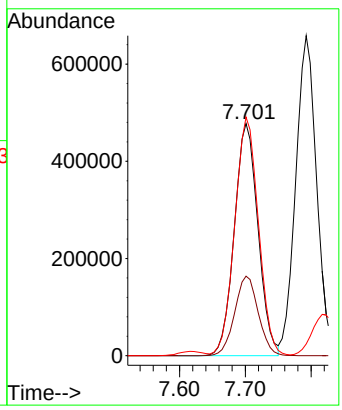





#31
Cyclohexane
Concen: 134.268 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 56 Resp: 119277

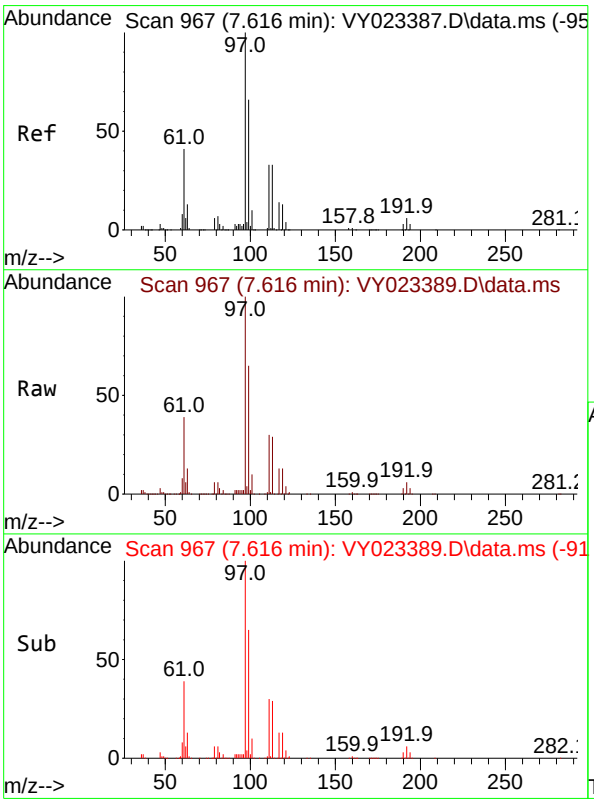
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.2 | 30.0 | 45.0 |
| 84 | 101.7 | 81.2 | 121.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

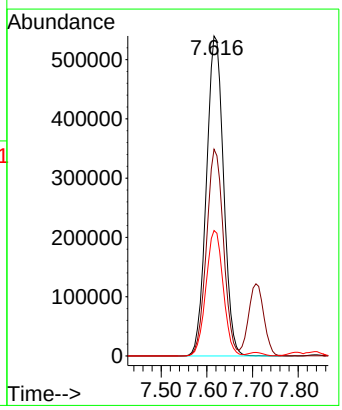
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

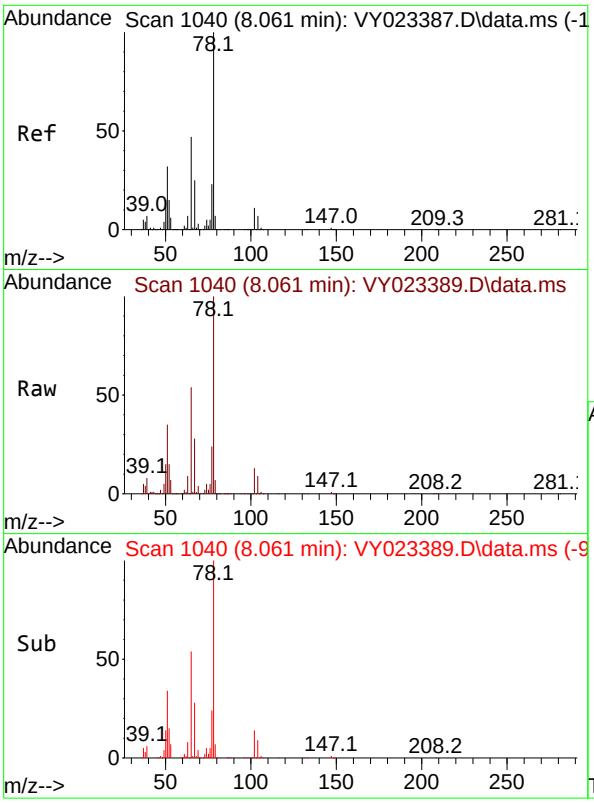



#32
1,1,1-Trichloroethane
Concen: 144.305 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 97 Resp: 1405131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.3 | 51.4 | 77.2 |
| 61 | 39.5 | 31.9 | 47.9 |






#33
1,2-Dichloroethane-d4
Concen: 140.236 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 65 Resp: 71473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.8 | 0.0 | 105.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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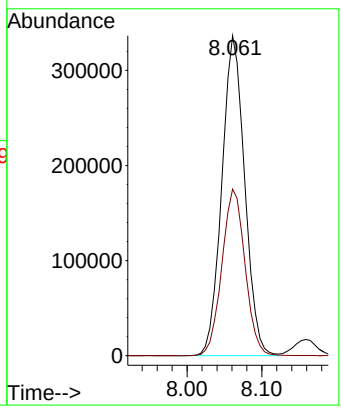
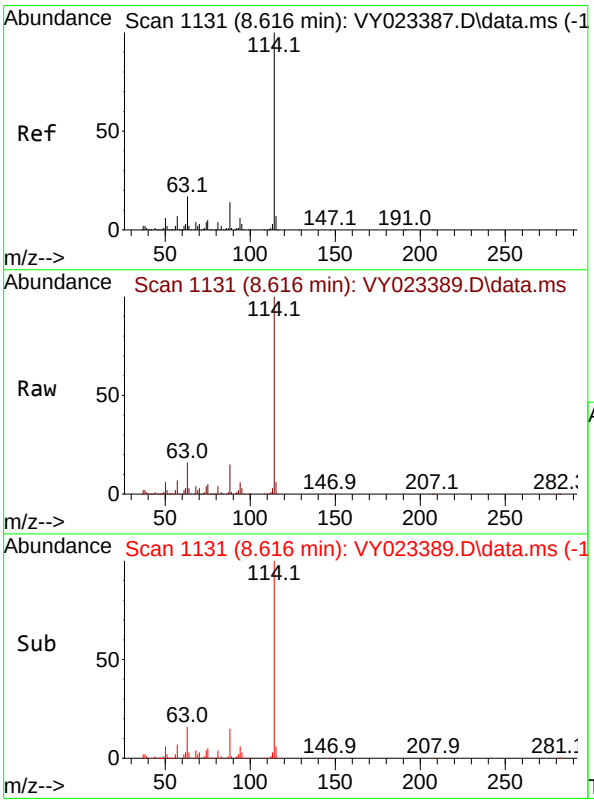
Supervised By :Mahesh Dadoda 10/10/2025

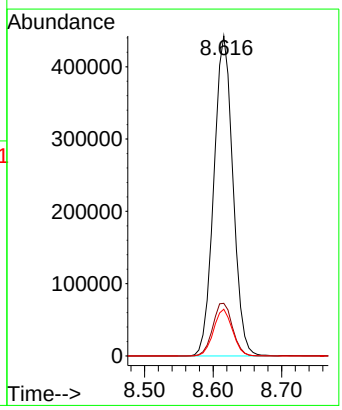


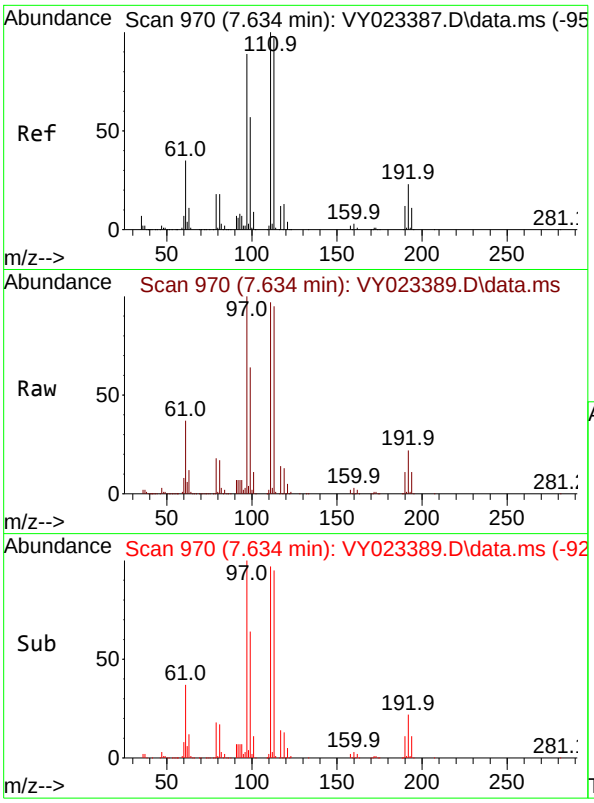




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:114 Resp: 855488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 16.4 | 0.0 | 34.2 |
| 88 | 14.6 | 0.0 | 28.4 |

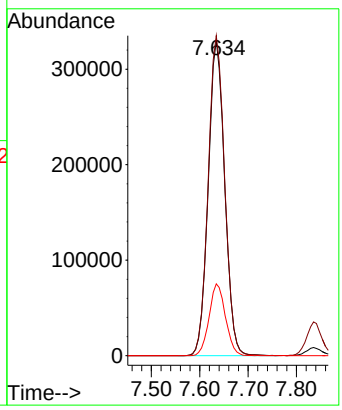





#35
Dibromofluoromethane
Concen: 149.977 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:113 Resp: 77863

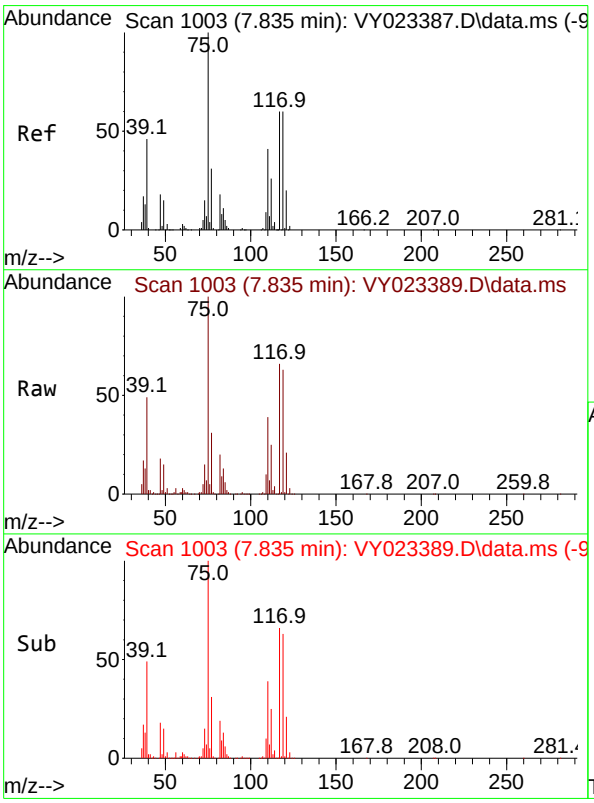
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.2 | 81.8 | 122.6 |
| 192 | 22.7 | 18.0 | 27.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

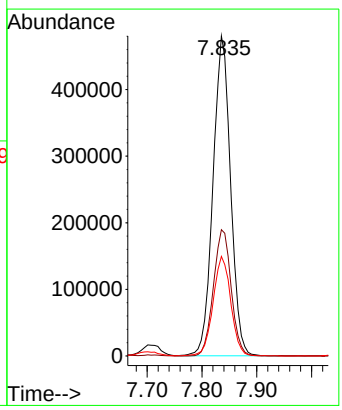
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

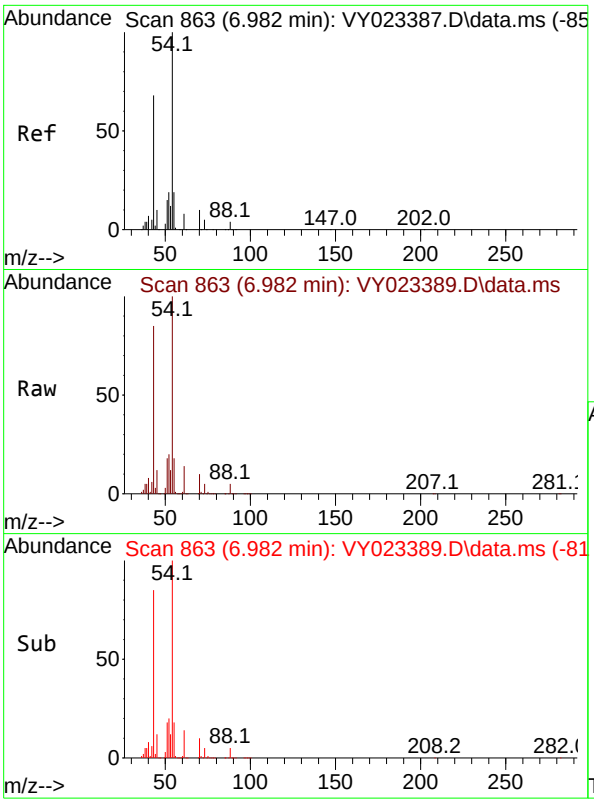



#36
1,1-Dichloropropene
Concen: 146.031 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 75 Resp: 1069665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 39.9 | 19.9 | 59.7 |
| 77 | 31.4 | 25.0 | 37.6 |






#37
Ethyl Acetate
Concen: 158.853 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 46002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.9 | 11.8 | 17.8 |
| 70 | 12.7 | 10.5 | 15.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
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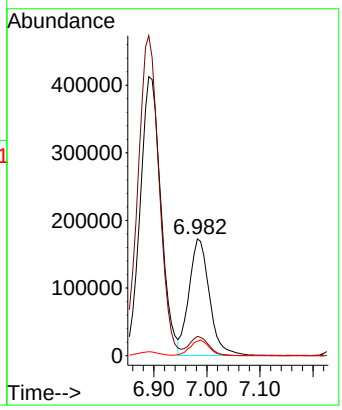
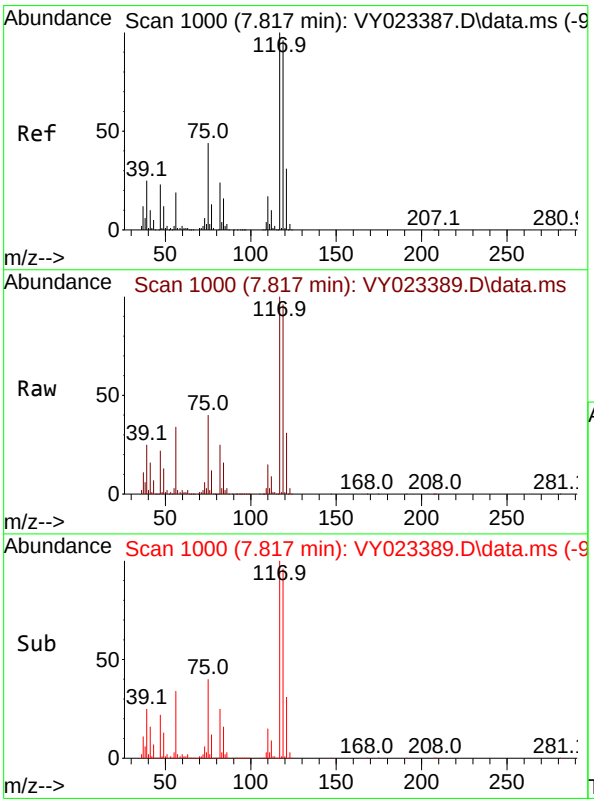
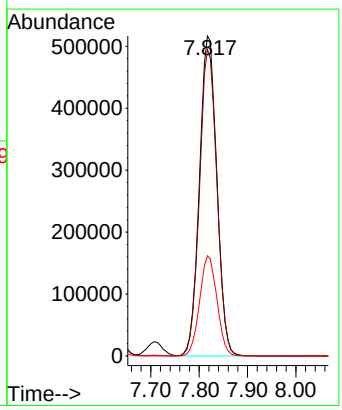


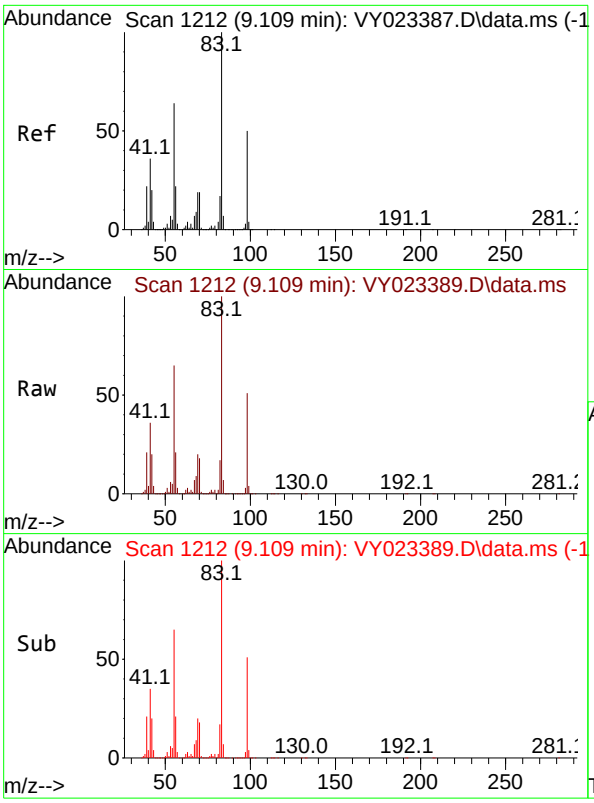




#38
Carbon Tetrachloride
Concen: 151.646 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:117 Resp: 1290353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.8 | 76.8 | 115.2 |
| 121 | 31.3 | 24.5 | 36.7 |






#39
Methylcyclohexane
Concen: 159.580 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

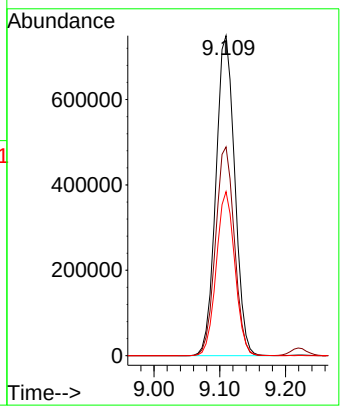
Tgt Ion: 83 Resp: 149661

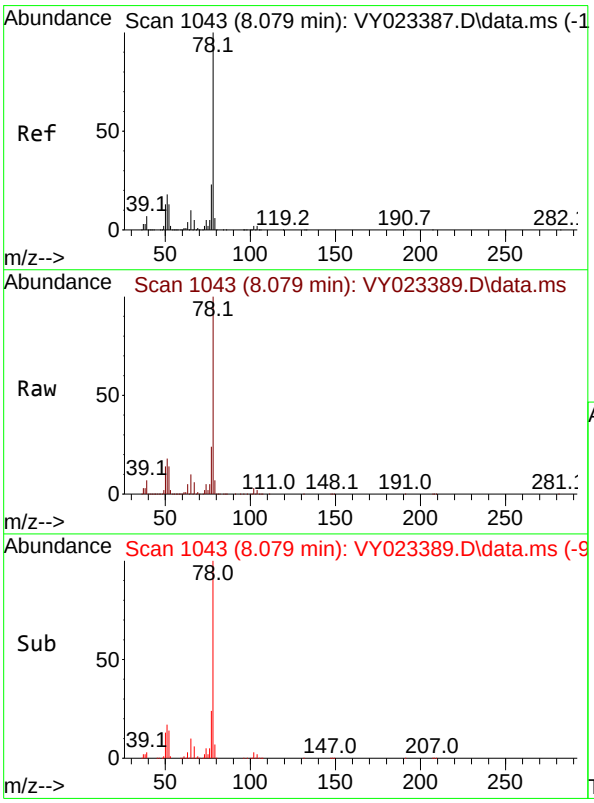
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 65.2 | 51.4 | 77.2 |
| 98 | 51.2 | 40.4 | 60.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

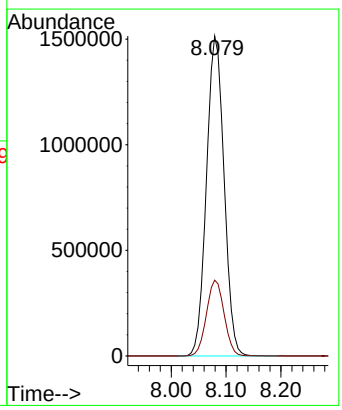


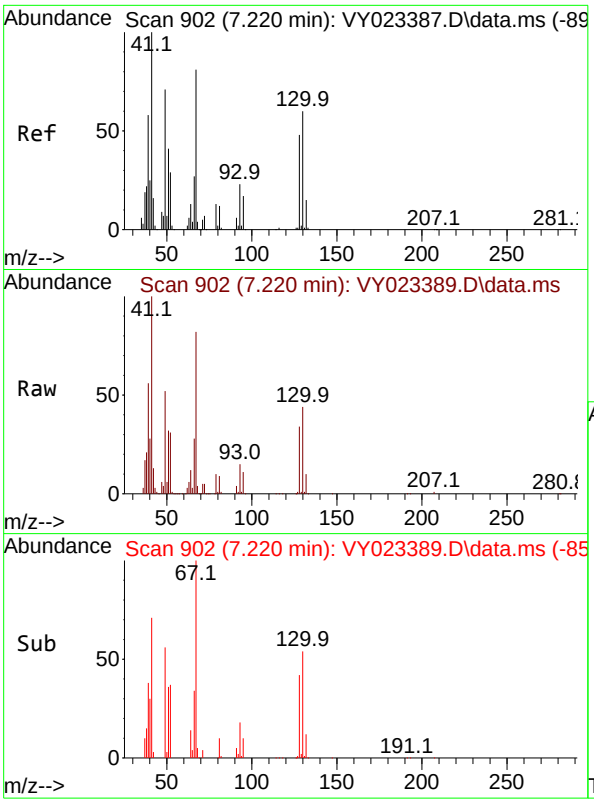




#40
Benzene
Concen: 147.442 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 78 Resp: 3366812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 18.3 | 27.5 |

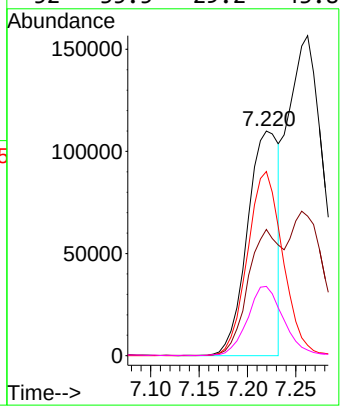





#41
Methacrylonitrile
Concen: 164.212 ug/l
RT: 7.220 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 41 Resp: 24697

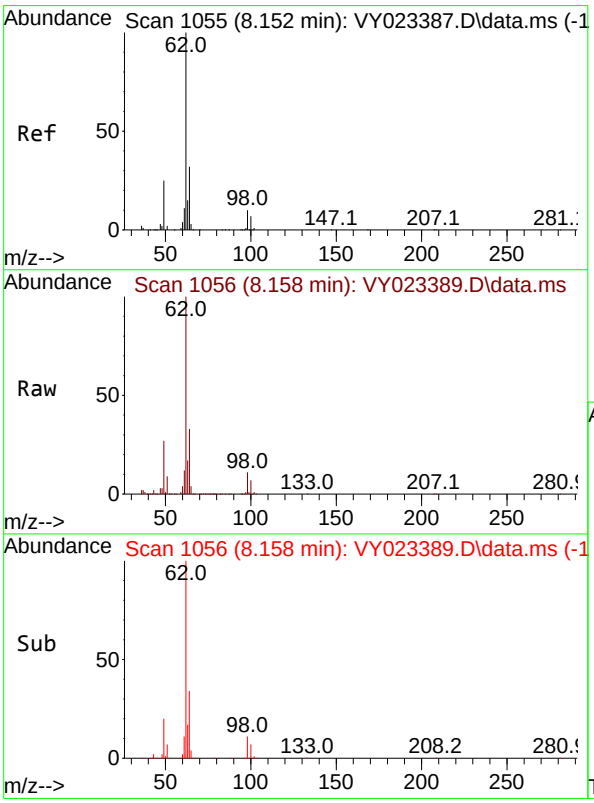
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 61.7 | 52.2 | 78.4 |
| 67 | 93.3 | 74.9 | 112.3 |
| 52 | 35.5 | 29.2 | 43.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

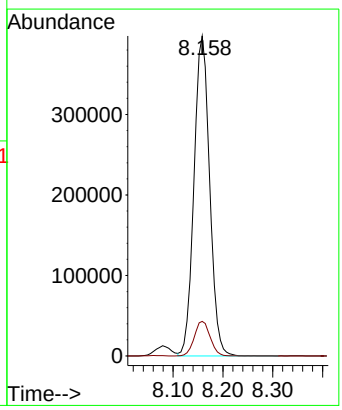
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

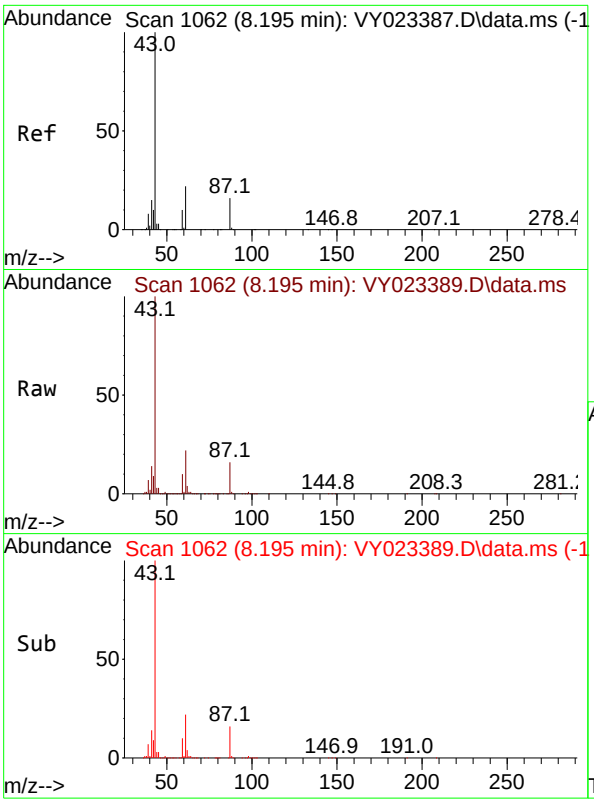



#42
1,2-Dichloroethane
Concen: 149.063 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 62 Resp: 866250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 11.0 | 0.0 | 21.6 |






#43
Isopropyl Acetate
Concen: 167.955 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 94608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.6 | 18.1 | 27.1 |
| 87 | 16.7 | 13.5 | 20.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
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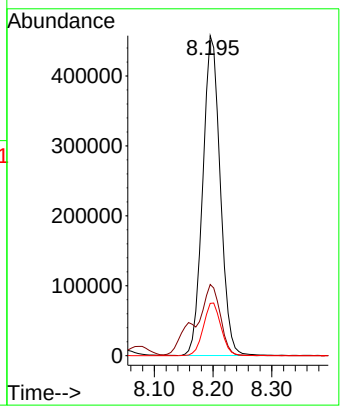
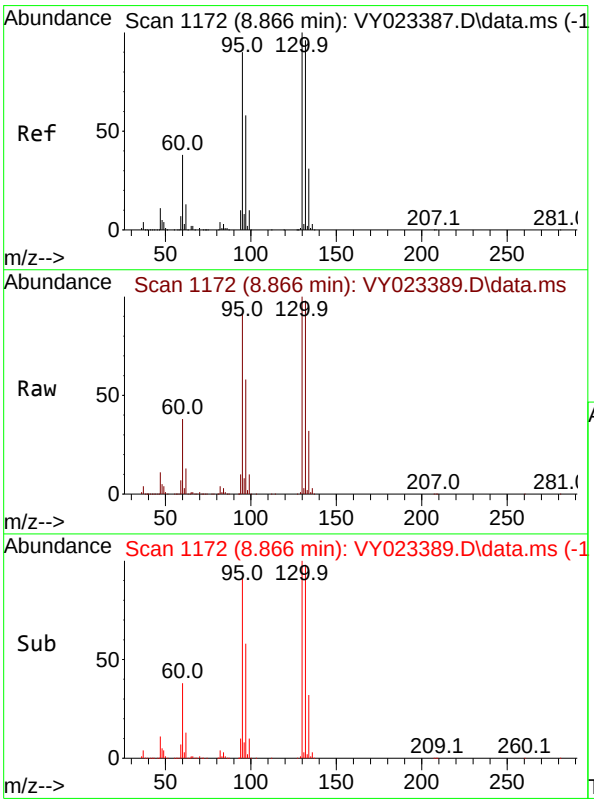
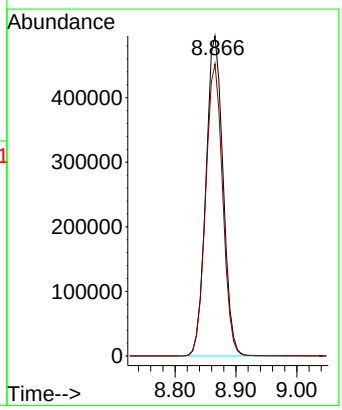


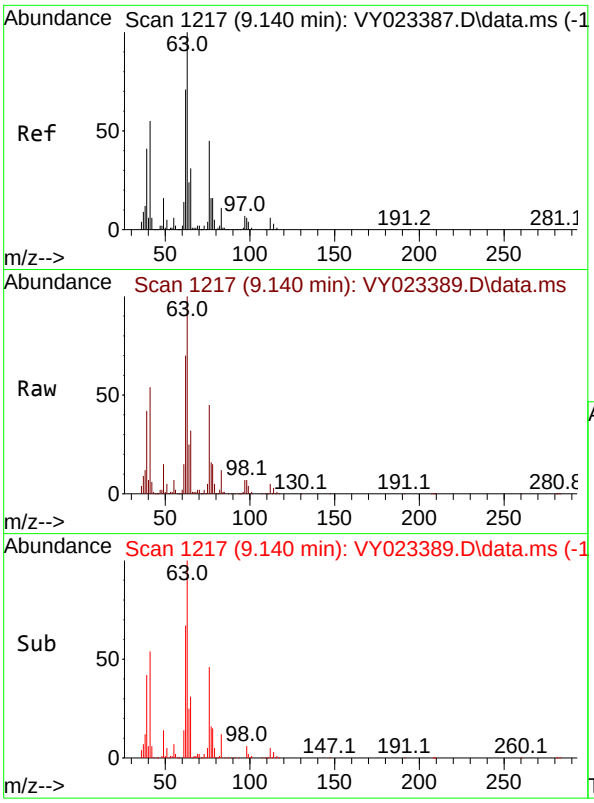




#44
Trichloroethene
Concen: 150.740 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:130 Resp: 966011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 91.3 | 0.0 | 180.6 |

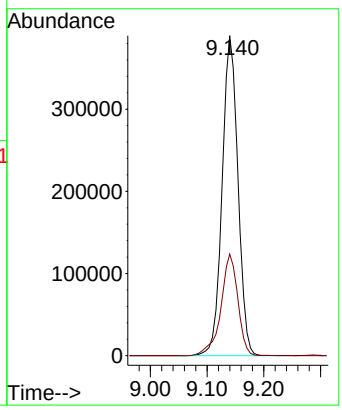





#45
1,2-Dichloropropane
Concen: 146.403 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 63 Resp: 75228

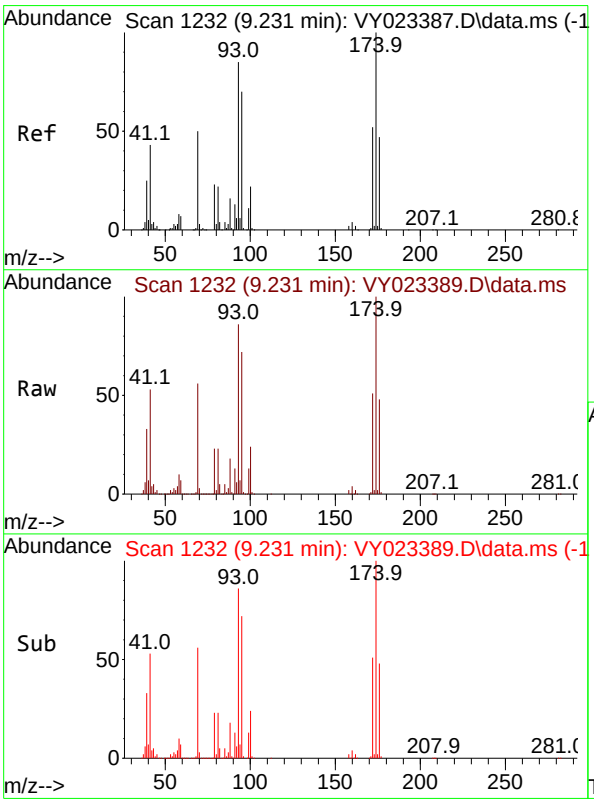
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.7 | 24.9 | 37.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

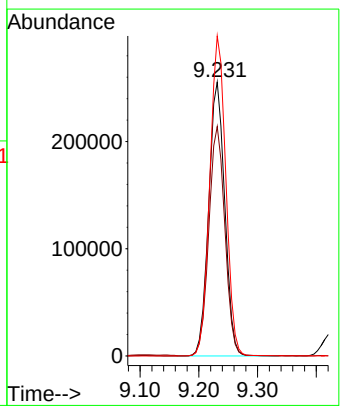
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

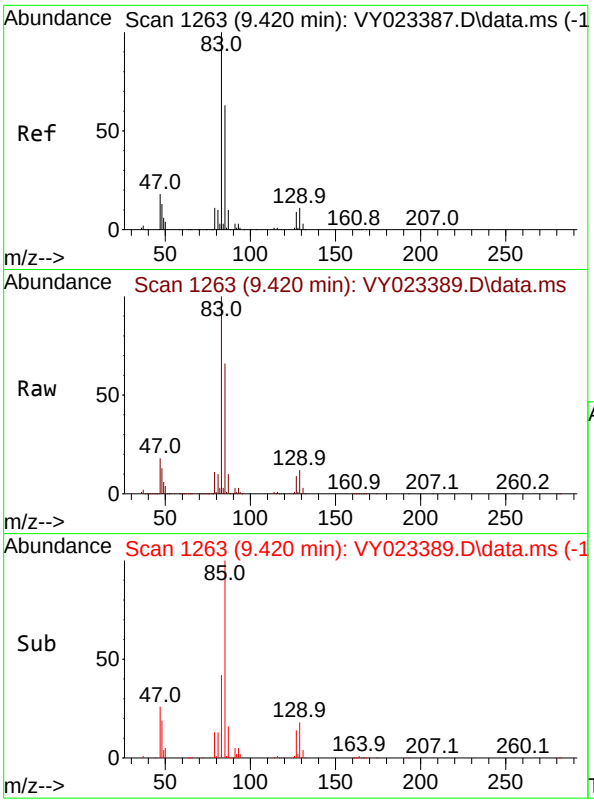



#46
Dibromomethane
Concen: 153.895 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 93 Resp: 483702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.7 | 65.4 | 98.0 |
| 174 | 116.7 | 92.9 | 139.3 |

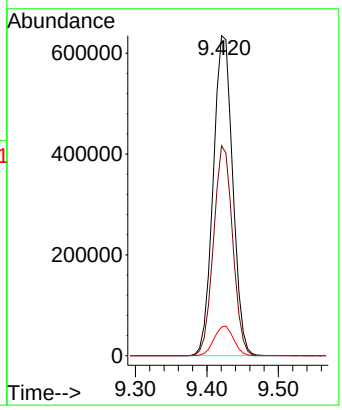





#47
Bromodichloromethane
Concen: 151.965 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 83 Resp: 120224

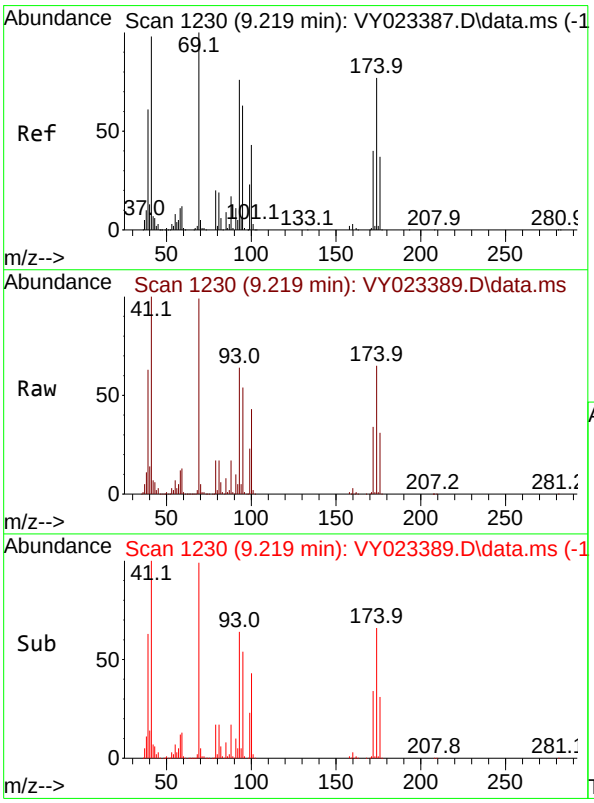
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.6 | 50.8 | 76.2 |
| 127 | 9.0 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

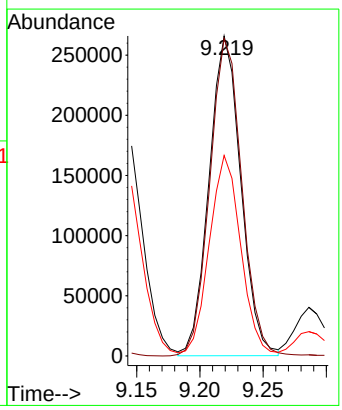
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

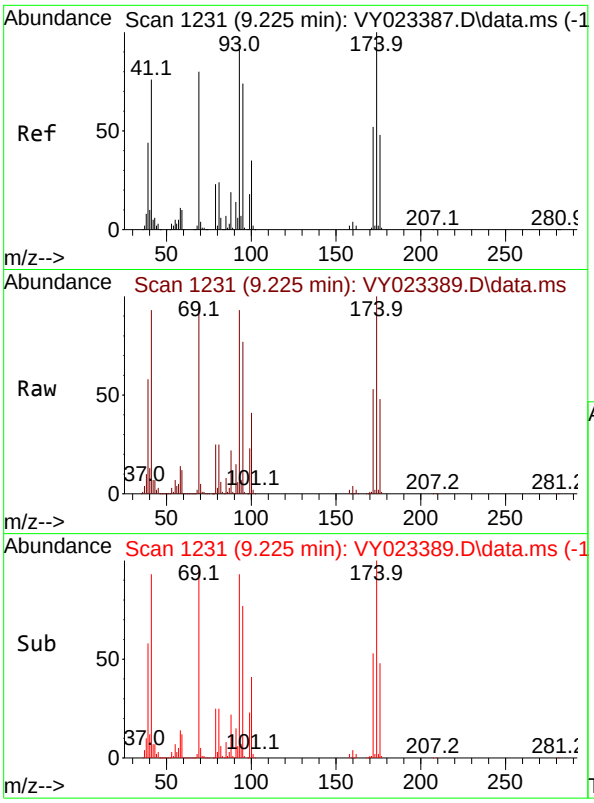



#48
Methyl methacrylate
Concen: 176.368 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 41 Resp: 463614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 100.4 | 81.0 | 121.4 |
| 39 | 60.3 | 48.2 | 72.4 |






#49
1,4-Dioxane
Concen: 3809.726 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

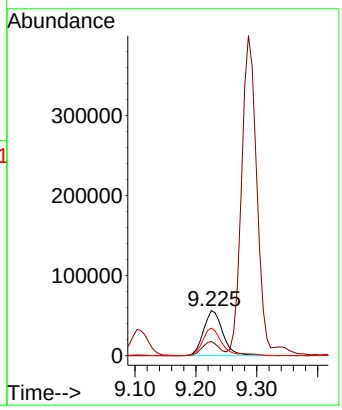
Tgt Ion: 88 Resp: 12399

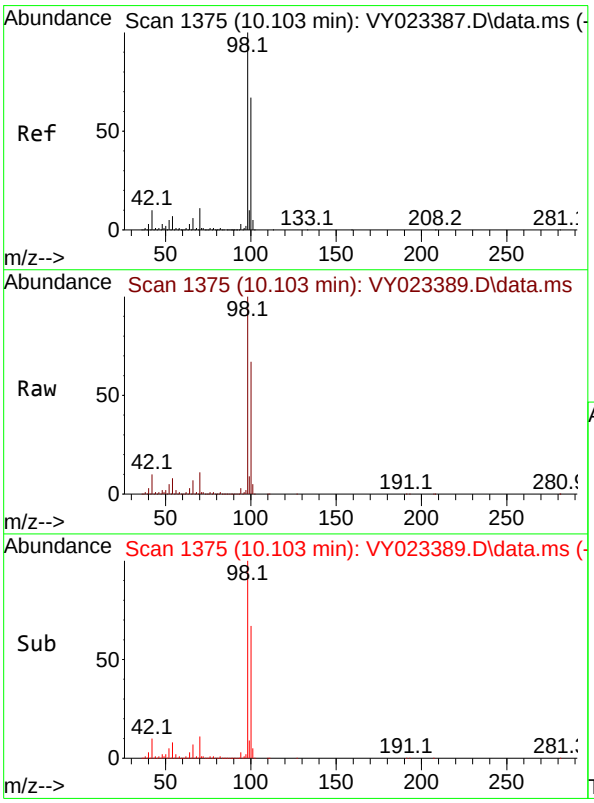
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 27.5 | 21.8 | 32.8 |
| 58 | 62.1 | 46.8 | 70.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

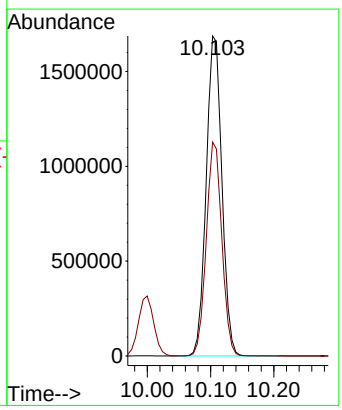


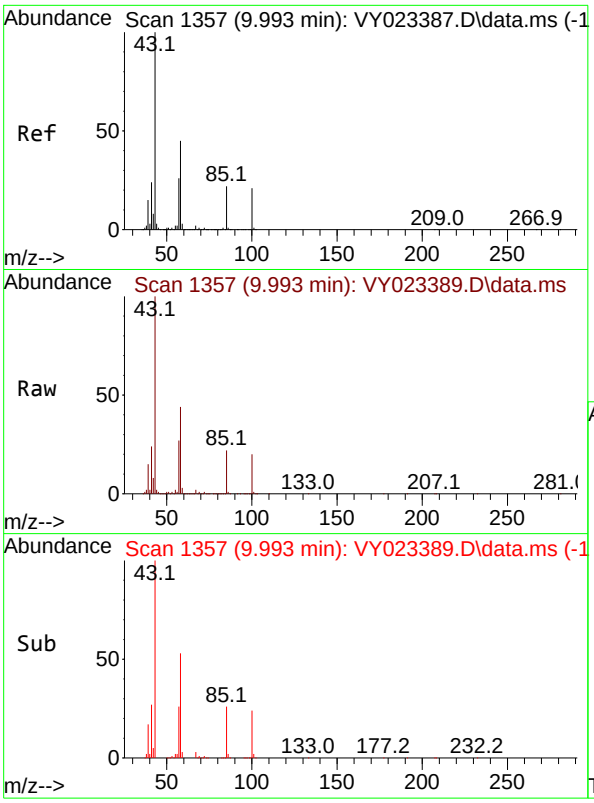




#50
Toluene-d8
Concen: 148.741 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 98 Resp: 2912319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.2 | 53.0 | 79.4 |






#51
4-Methyl-2-Pentanone
Concen: 872.045 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 251610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 44.1 | 35.3 | 52.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
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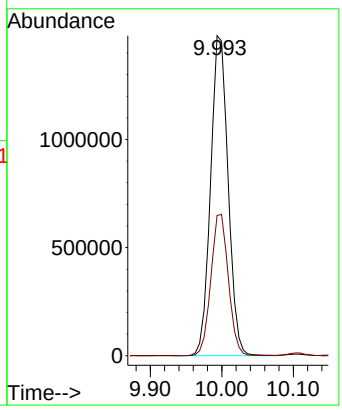
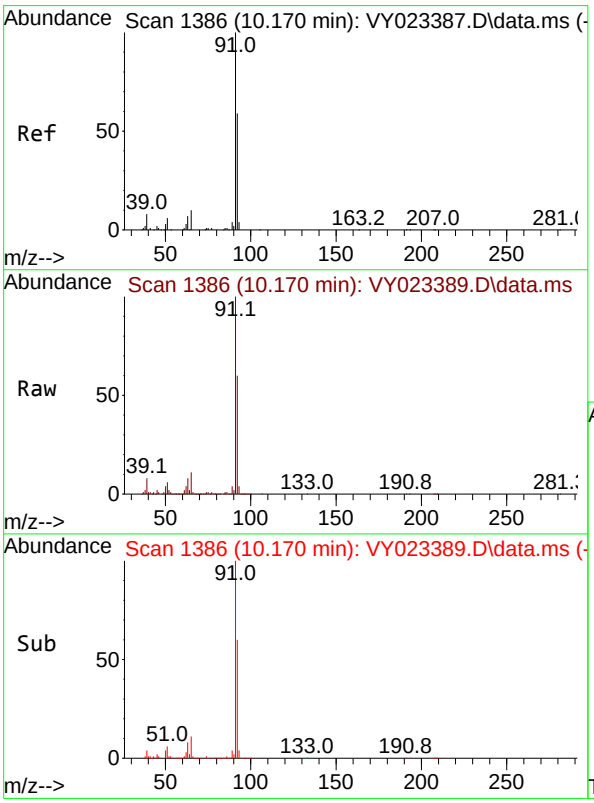
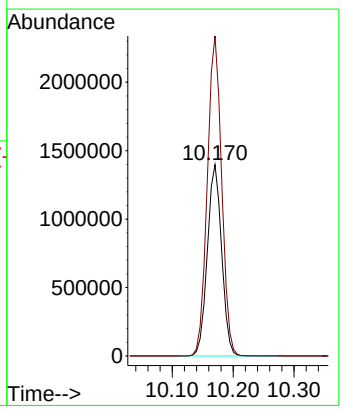


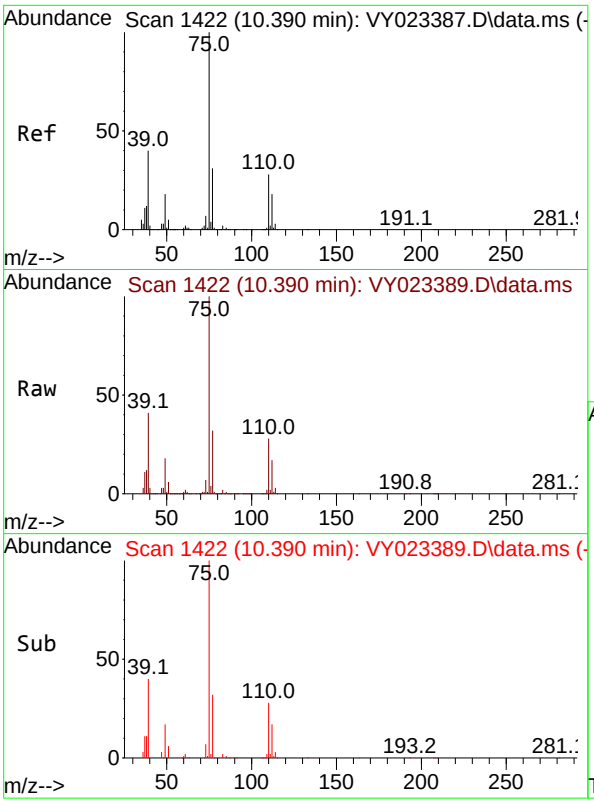




#52
Toluene
Concen: 156.786 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 92 Resp: 2272574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 168.3 | 136.4 | 204.6 |






#53
t-1,3-Dichloropropene
Concen: 165.367 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 75 Resp: 112364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.6 | 25.1 | 37.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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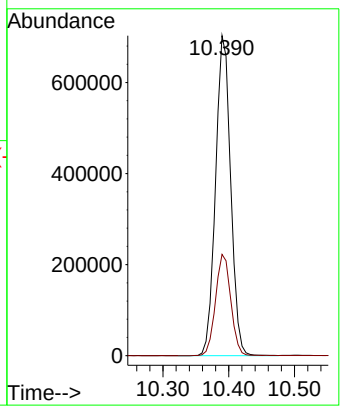
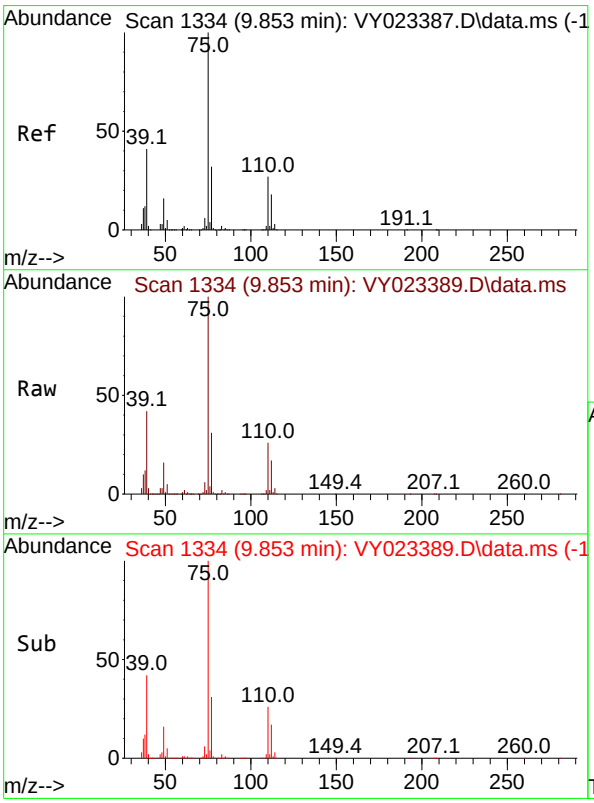
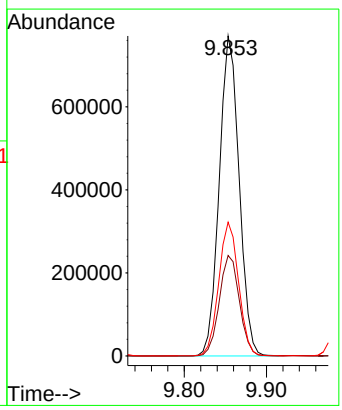


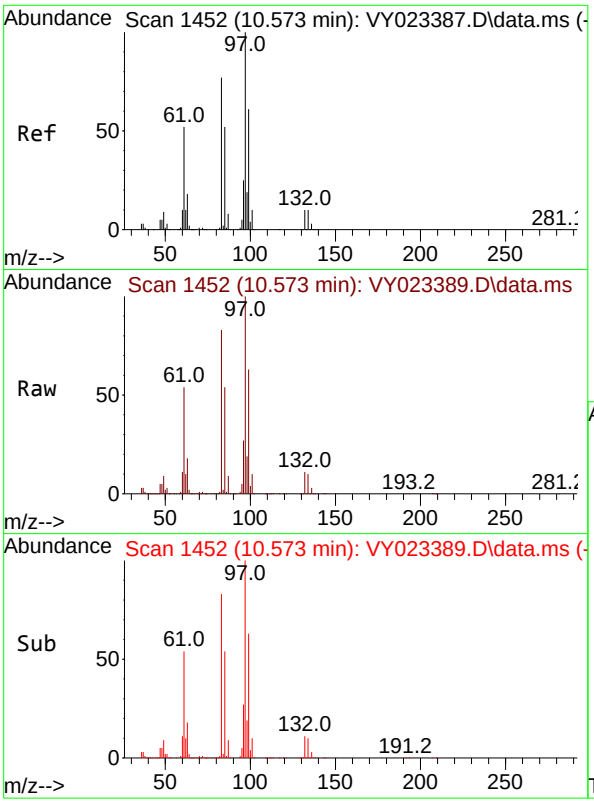




#54
cis-1,3-Dichloropropene
Concen: 159.654 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 75 Resp: 1296713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.4 | 38.0 |
| 39 | 41.7 | 32.8 | 49.2 |

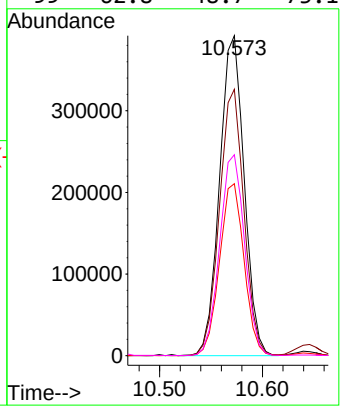





#55
1,1,2-Trichloroethane
Concen: 156.020 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 97 Resp: 65224

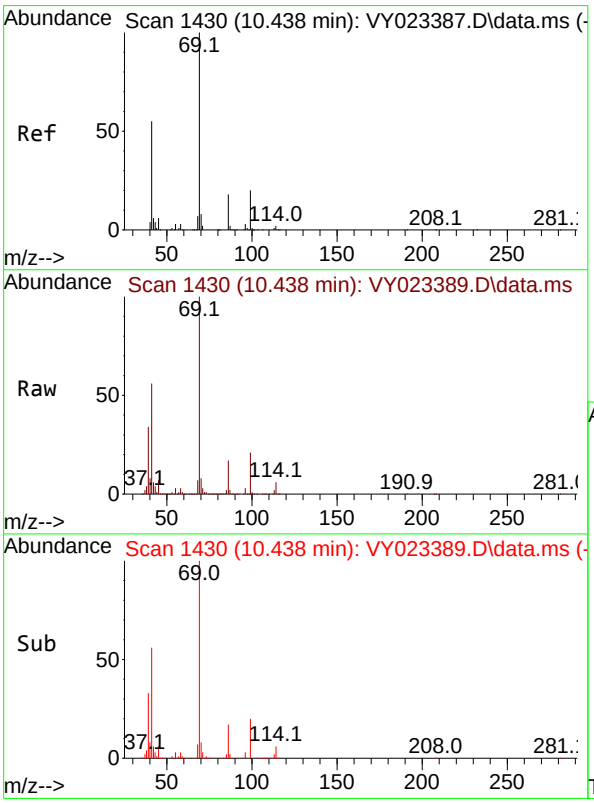
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 83.2 | 61.8 | 92.6 |
| 85 | 53.7 | 41.3 | 61.9 |
| 99 | 62.8 | 48.7 | 73.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

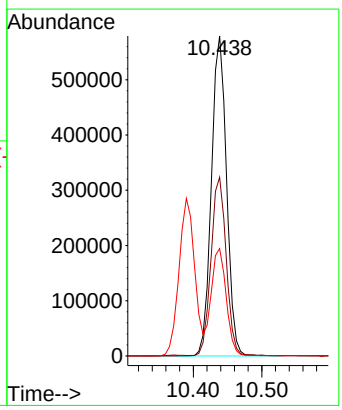
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

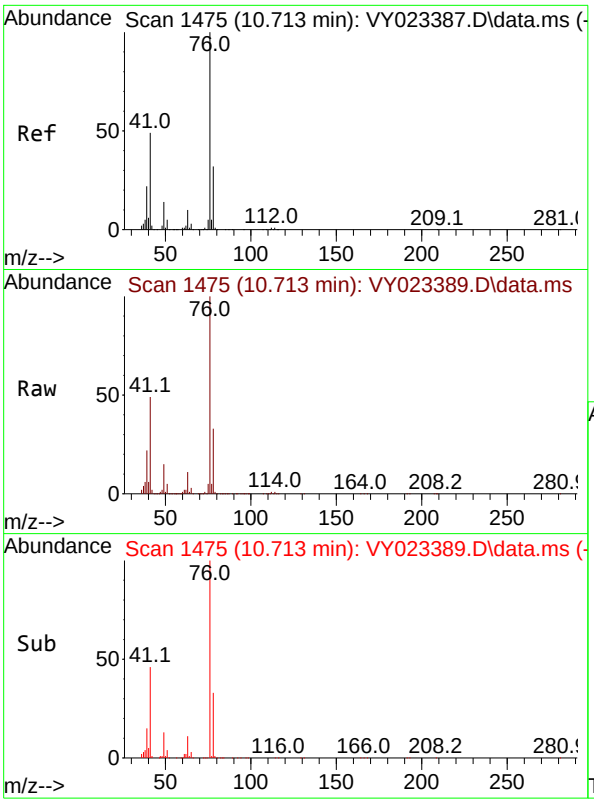



#56
Ethyl methacrylate
Concen: 184.048 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 69 Resp: 886127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 56.0 | 44.6 | 67.0 |
| 39 | 33.6 | 27.0 | 40.4 |

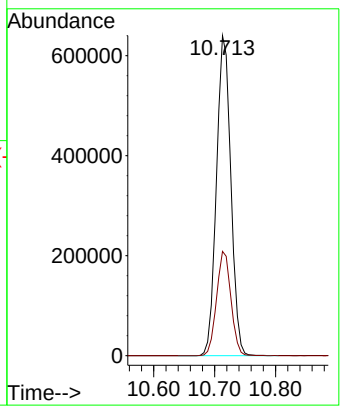





#57
1,3-Dichloropropane
Concen: 155.122 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 76 Resp: 104959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.6 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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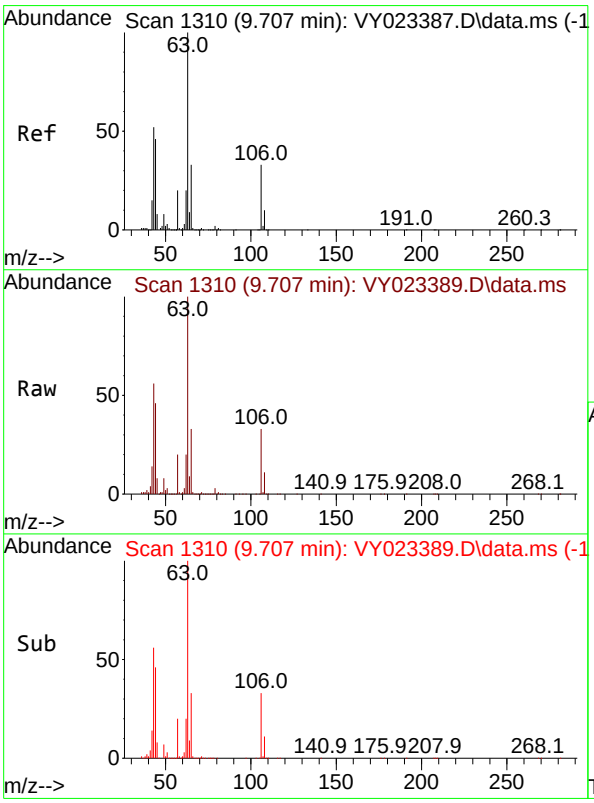
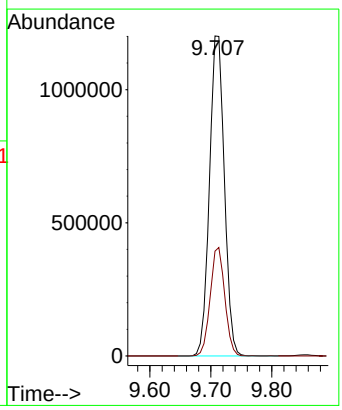
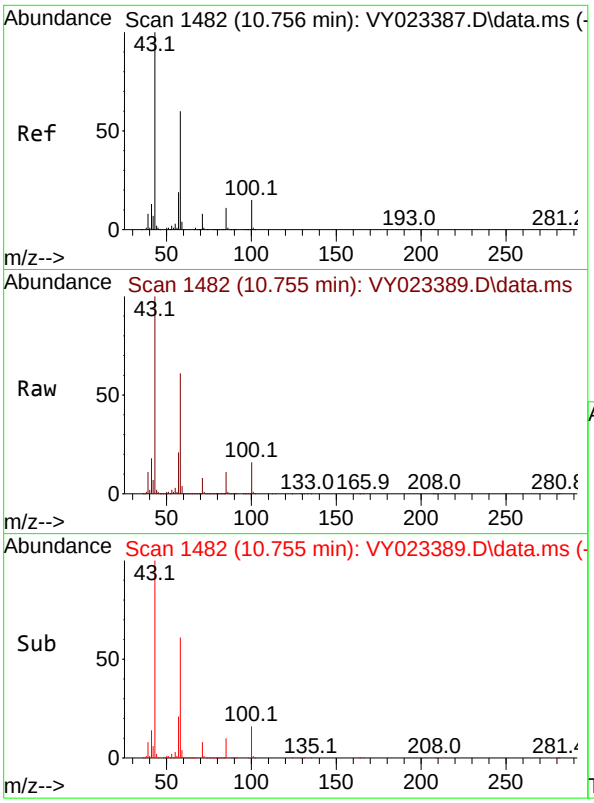



#58
2-Chloroethyl Vinyl ether
Concen: 968.559 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 63 Resp: 2040136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 33.2 | 26.6 | 39.8 |






#59
2-Hexanone
Concen: 889.038 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 177603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 61.4 | 30.5 | 91.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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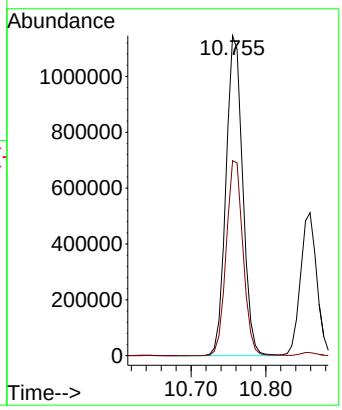
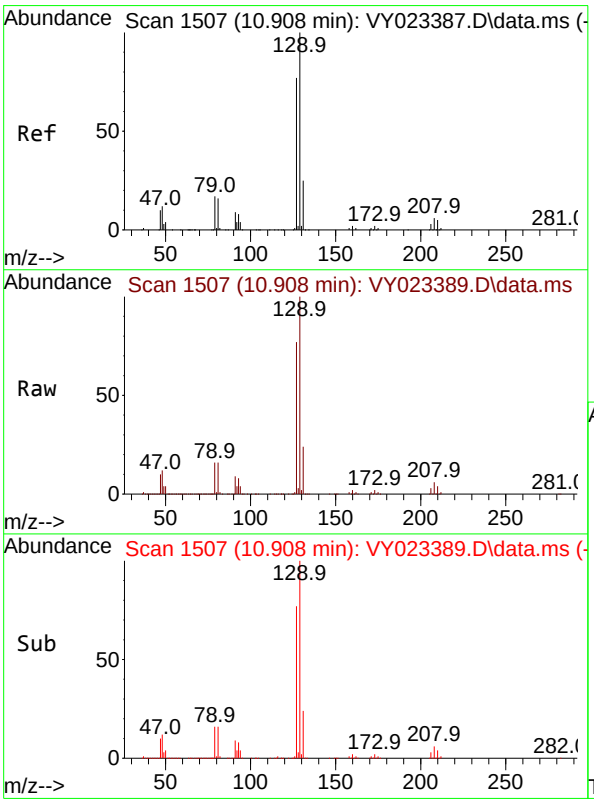
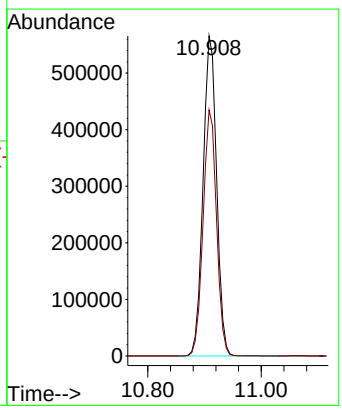


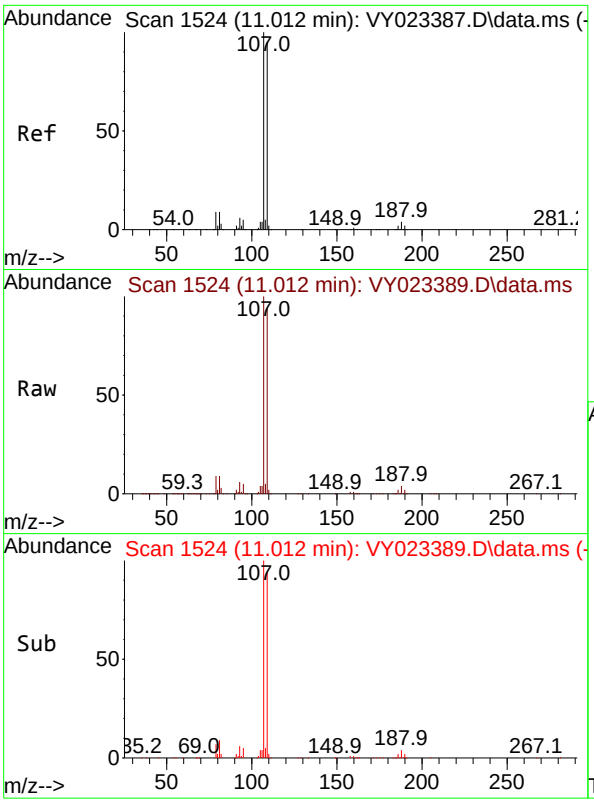




#60
Dibromochloromethane
Concen: 164.084 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:129 Resp: 935577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.4 | 38.6 | 115.7 |

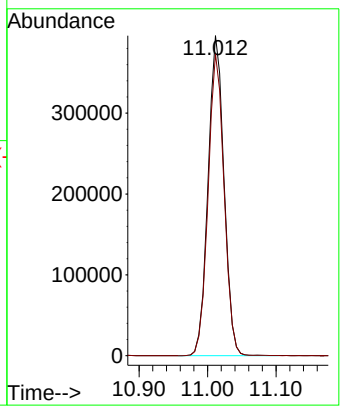





#61
1,2-Dibromoethane
Concen: 162.699 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:107 Resp: 63989

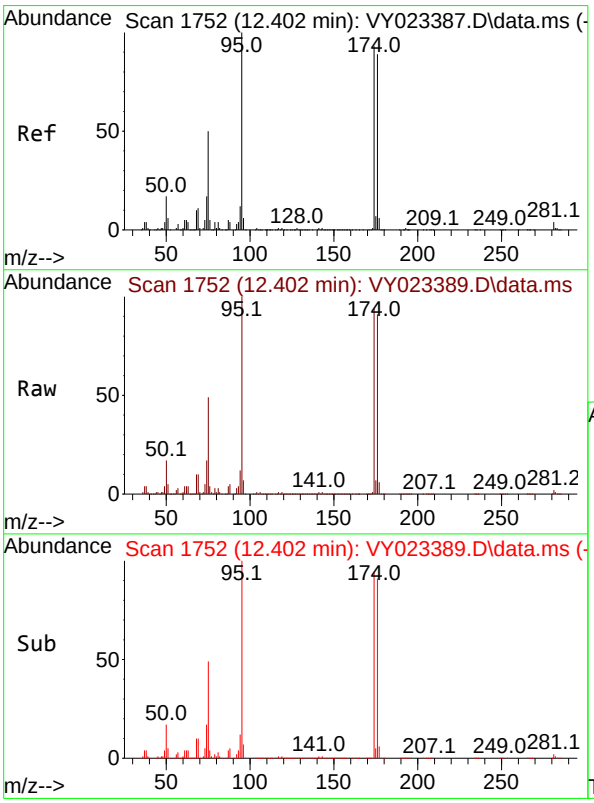
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.4 | 76.1 | 114.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

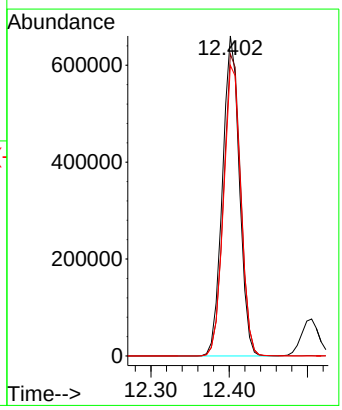
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

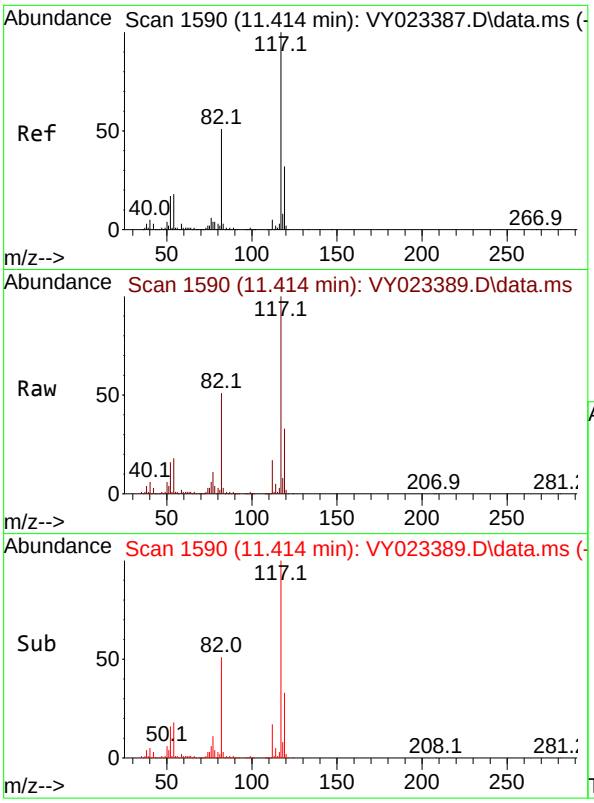



#62
4-Bromofluorobenzene
Concen: 160.423 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 95 Resp: 990964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 95.8 | 0.0 | 192.8 |
| 176 | 92.8 | 0.0 | 187.6 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:117 Resp: 765351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 51.3 | 41.0 | 61.4 |
| 119 | 33.3 | 25.6 | 38.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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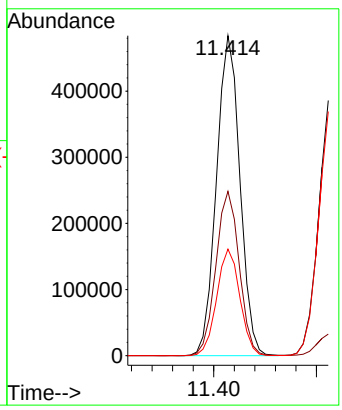
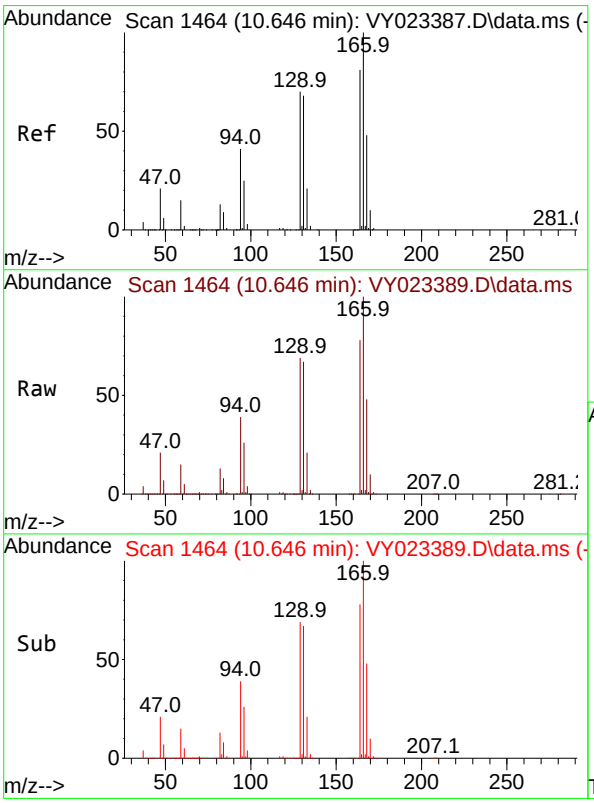
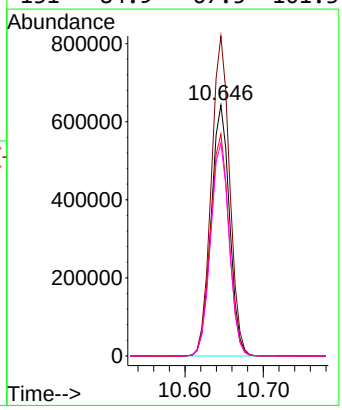


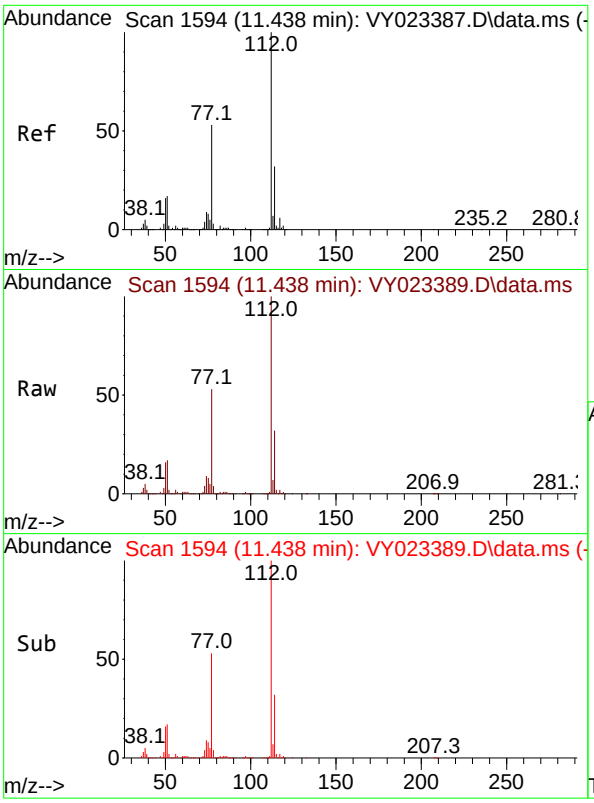




#64
Tetrachloroethene
Concen: 136.739 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:164 Resp: 1046931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.5 | 99.4 | 149.0 |
| 129 | 88.4 | 69.4 | 104.2 |
| 131 | 84.9 | 67.5 | 101.3 |

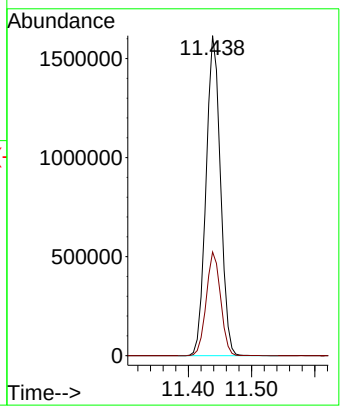





#65
Chlorobenzene
Concen: 154.117 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:112 Resp: 256317

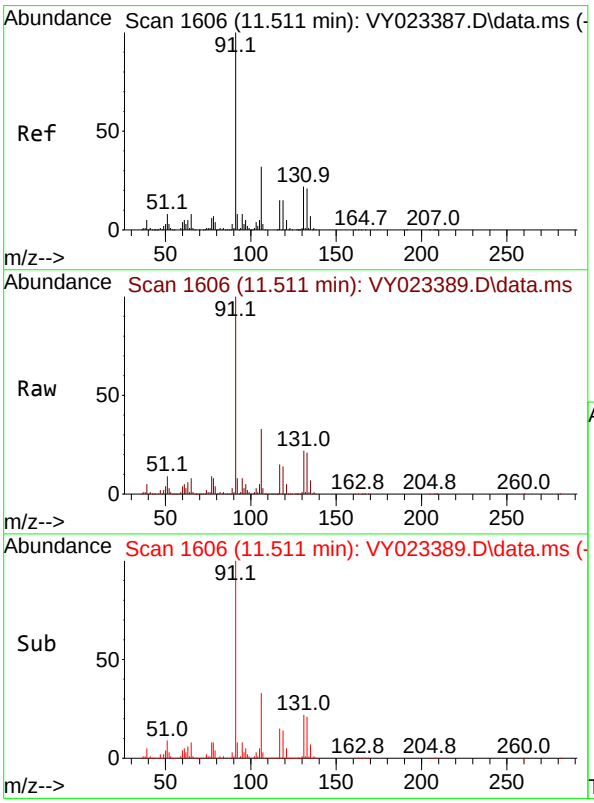
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.4 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

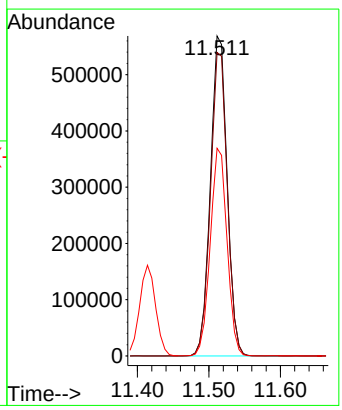
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

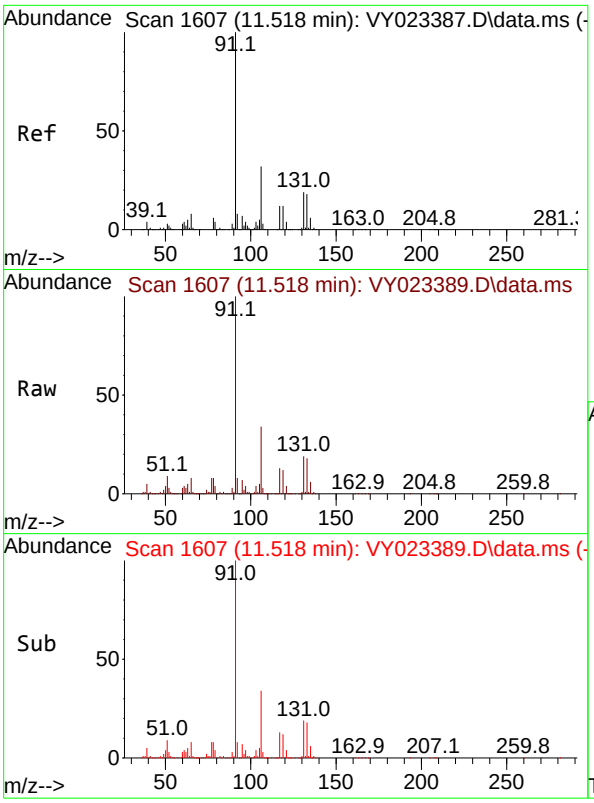



#66
1,1,1,2-Tetrachloroethane
Concen: 157.870 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:131 Resp: 923367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.4 | 48.4 | 145.2 |
| 119 | 65.2 | 32.4 | 97.2 |






#67
Ethyl Benzene
Concen: 159.957 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 91 Resp: 434180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 33.8 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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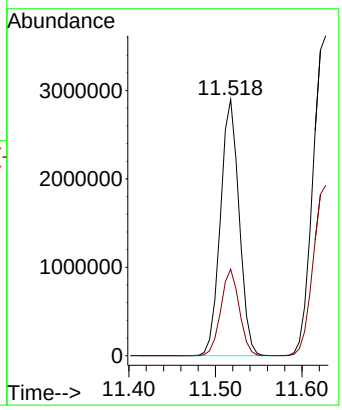
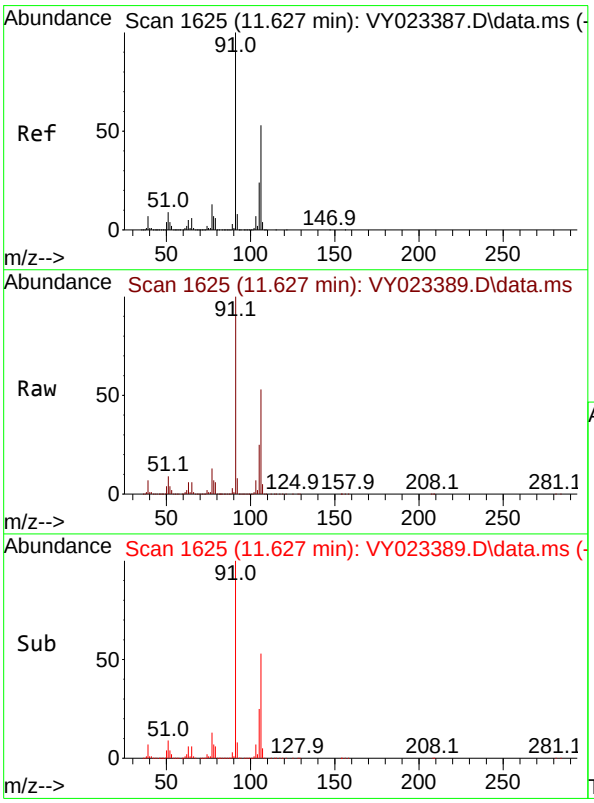
Supervised By :Mahesh Dadoda 10/10/2025

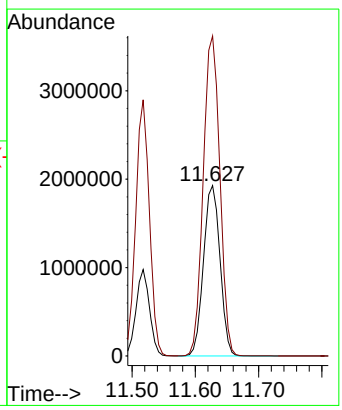


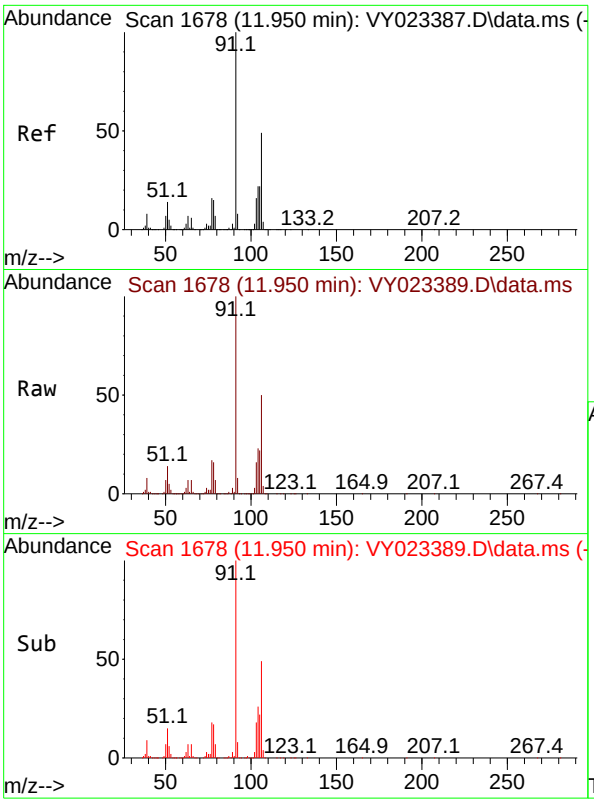




#68
m/p-Xylenes
Concen: 321.899 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:106 Resp: 3502137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 189.2 | 152.6 | 229.0 |

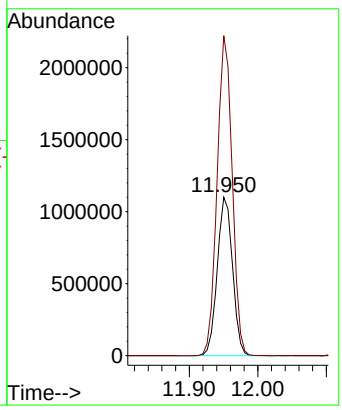





#69
o-Xylene
Concen: 168.295 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:106 Resp: 169498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 200.0 | 101.4 | 304.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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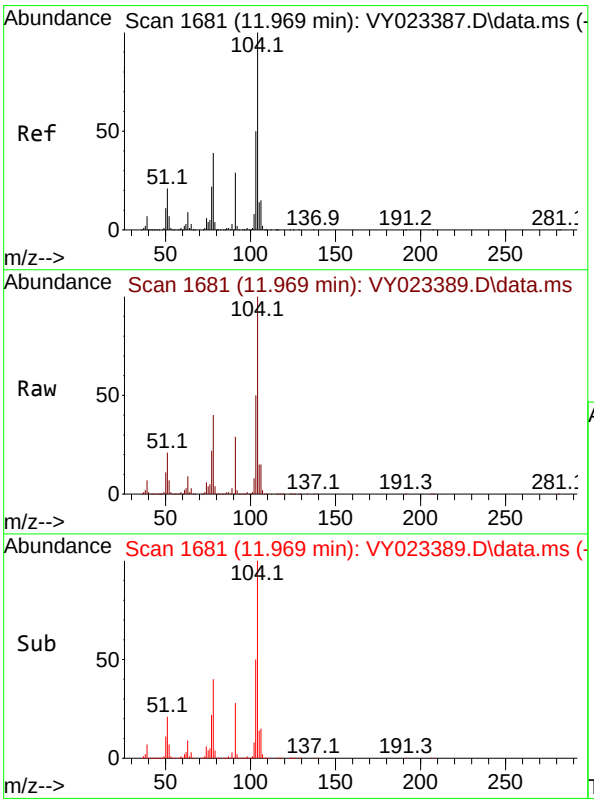
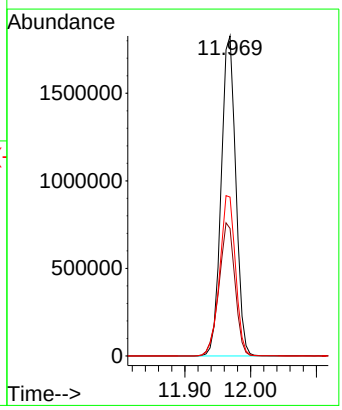
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

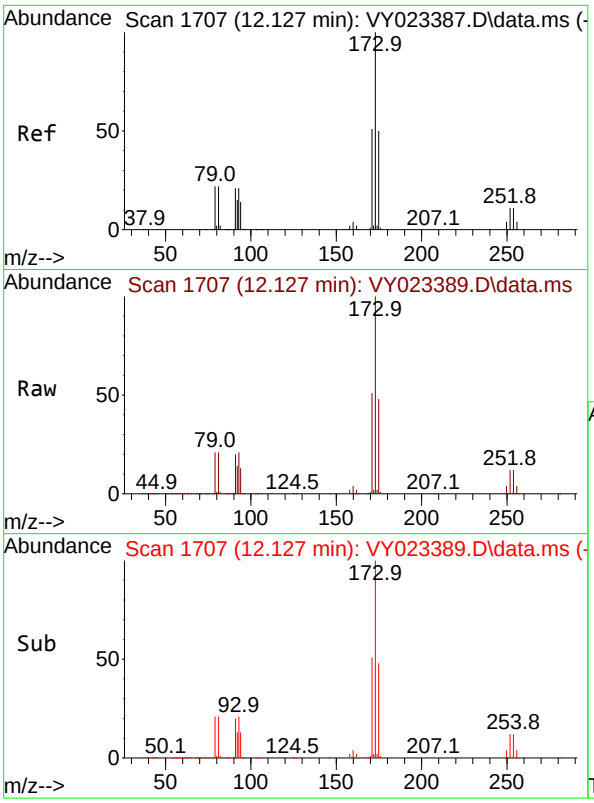



#70
Styrene
Concen: 170.203 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:104 Resp: 2830398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 45.5 | 36.1 | 54.1 |
| 103 | 54.3 | 43.2 | 64.8 |

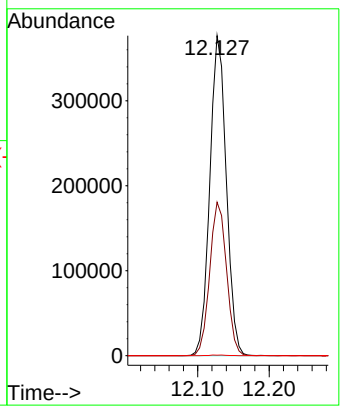





#71
Bromoform
Concen: 172.115 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:173 Resp: 60264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.9 | 24.8 | 74.3 |
| 254 | 0.2 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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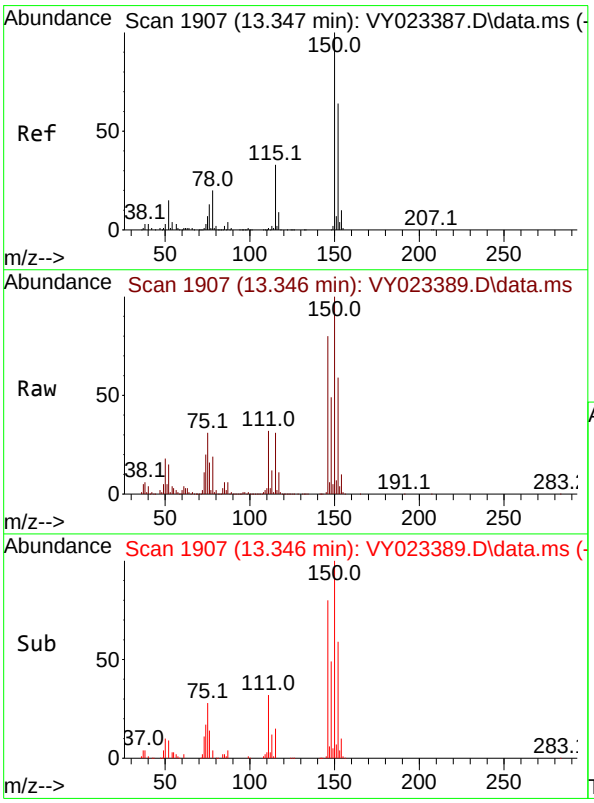
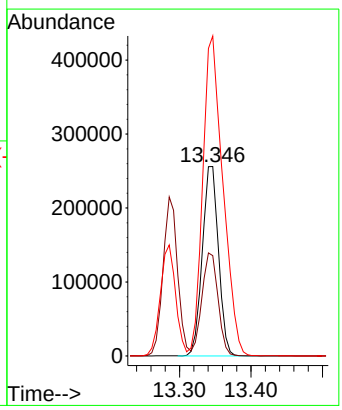
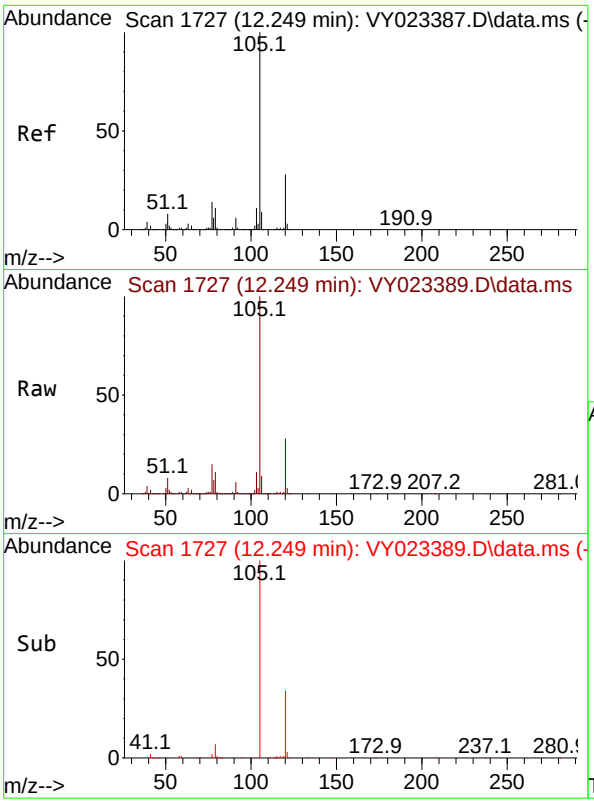



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:152 Resp: 402368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 54.1 | 27.1 | 81.2 |
| 150 | 210.4 | 0.0 | 347.4 |

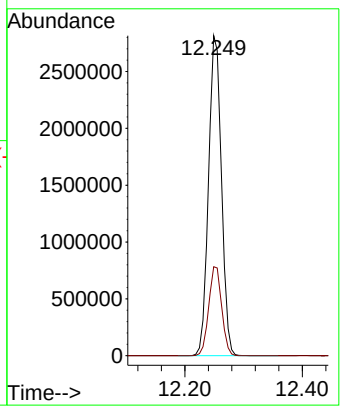





#73
Isopropylbenzene
Concen: 160.084 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:105 Resp: 429066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.9 | 13.9 | 41.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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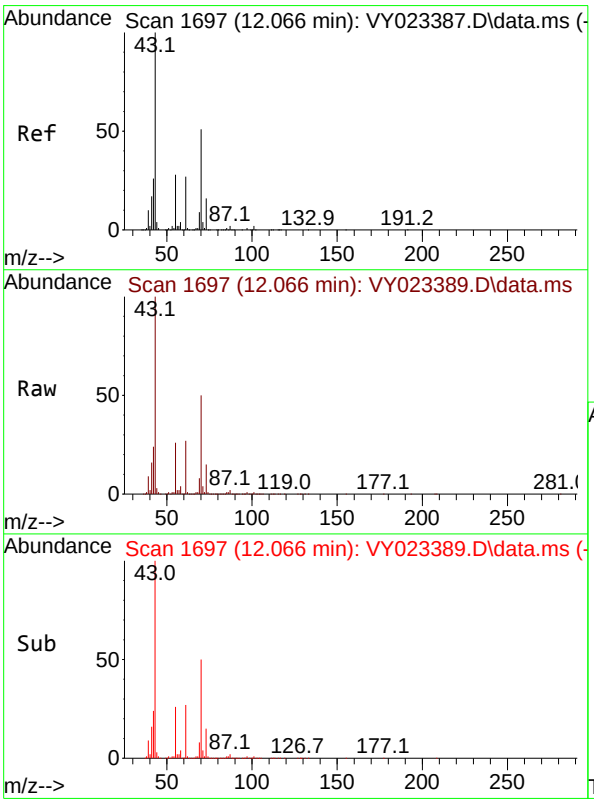
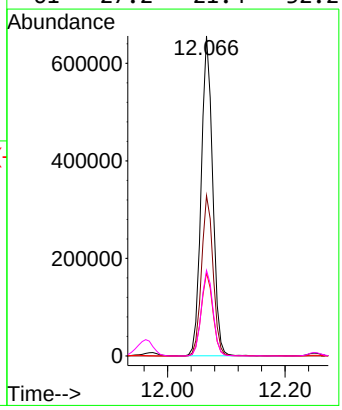
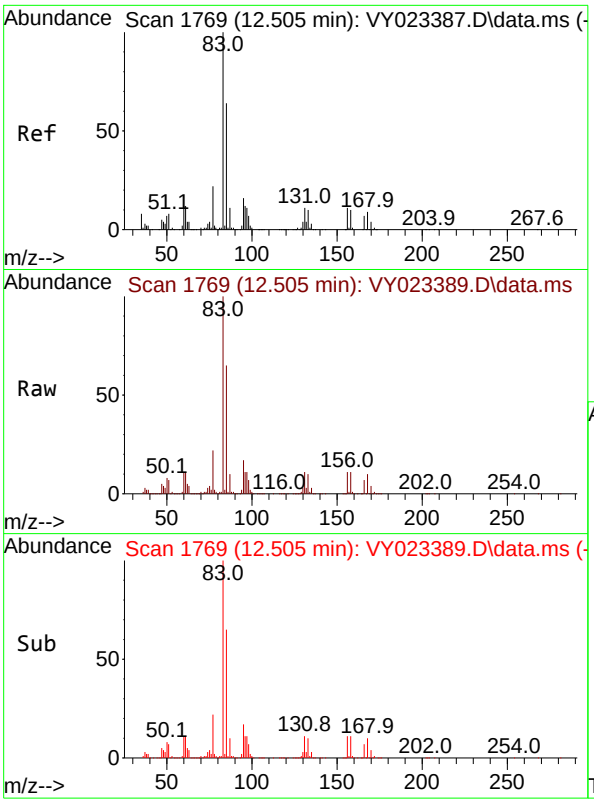



#74
N-amyl acetate
Concen: 177.866 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 890882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 50.6 | 41.1 | 61.7 |
| 55 | 26.4 | 23.0 | 34.6 |
| 61 | 27.2 | 21.4 | 32.2 |

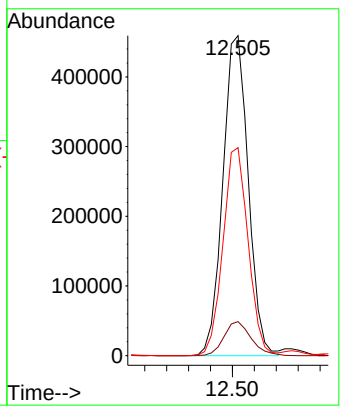





#75
1,1,2,2-Tetrachloroethane
Concen: 165.010 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 83 Resp: 73777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.4 | 5.9 | 17.6 |
| 85 | 64.4 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 10/10/2025
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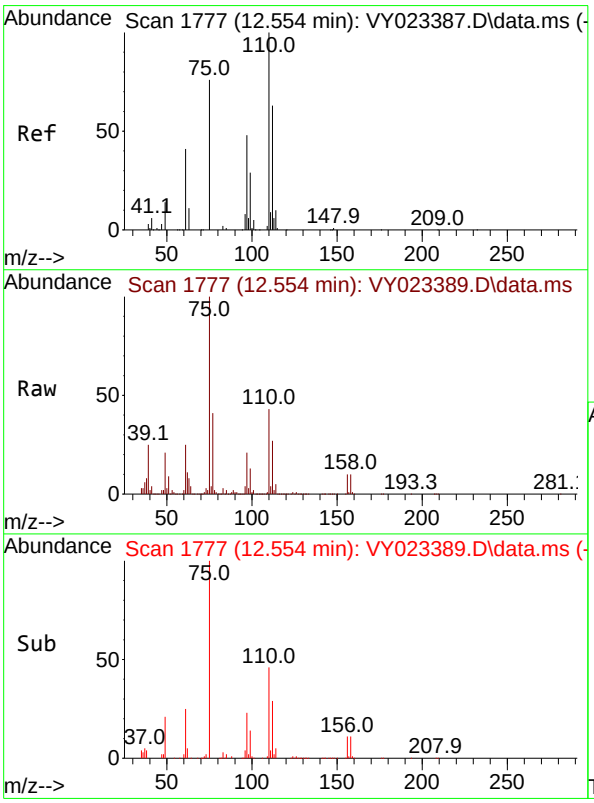
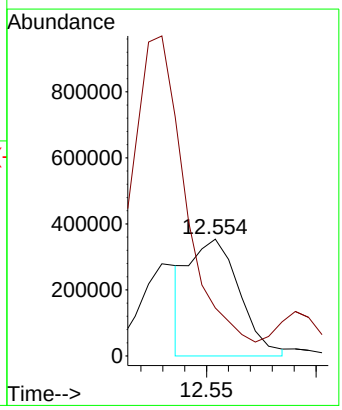
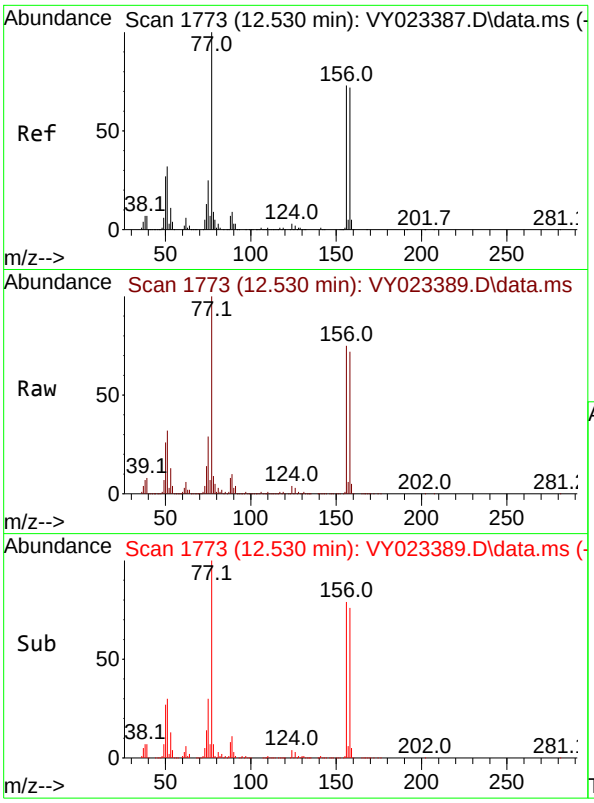



#76
1,2,3-Trichloropropane
Concen: 142.542 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 75 Resp: 565754

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

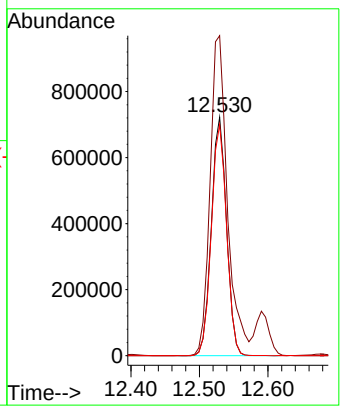





#77
Bromobenzene
Concen: 161.555 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:156 Resp: 111131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 153.9 | 76.8 | 230.5 |
| 158 | 97.4 | 49.0 | 147.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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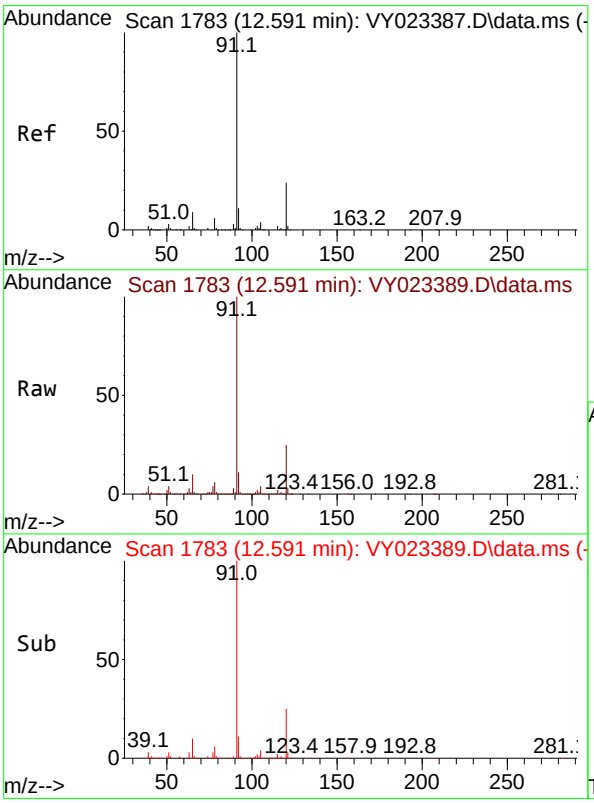
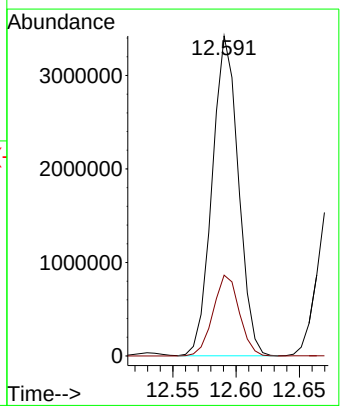
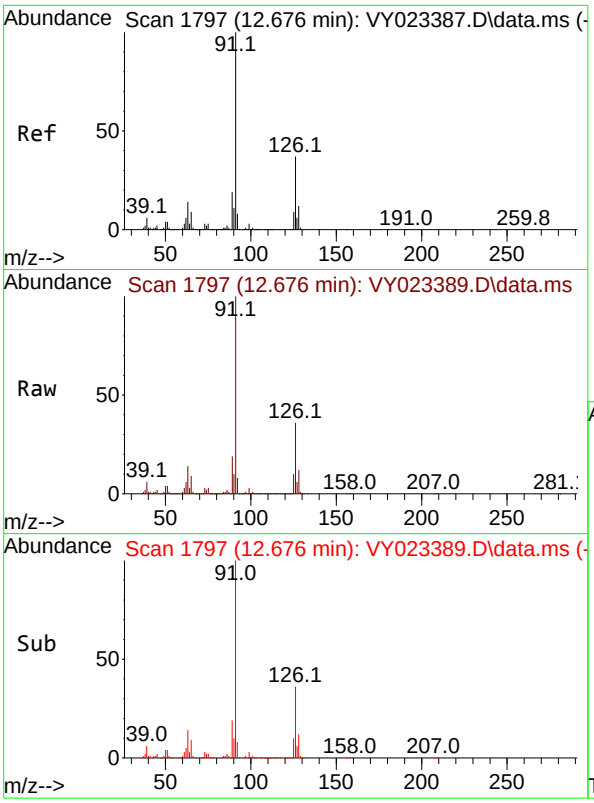



#78
n-propylbenzene
Concen: 156.465 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 91 Resp: 4932015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 25.1 | 12.3 | 36.8 |

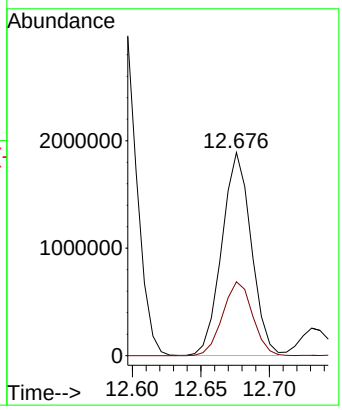





#79
2-Chlorotoluene
Concen: 155.063 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 91 Resp: 282204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 37.1 | 18.5 | 55.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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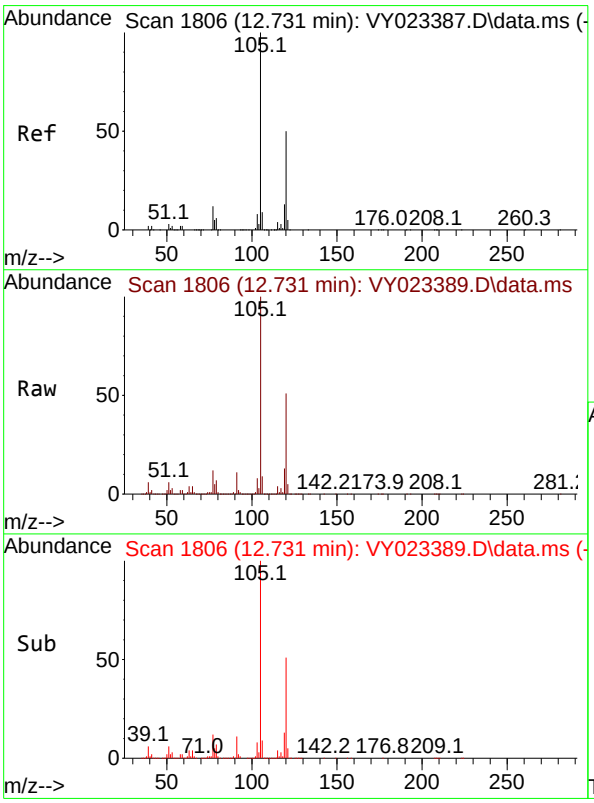
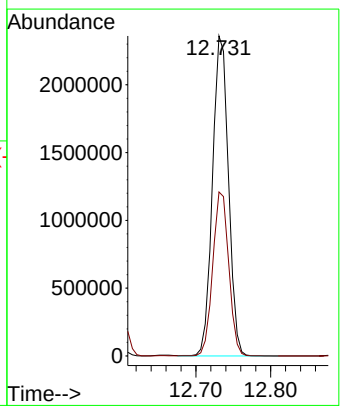
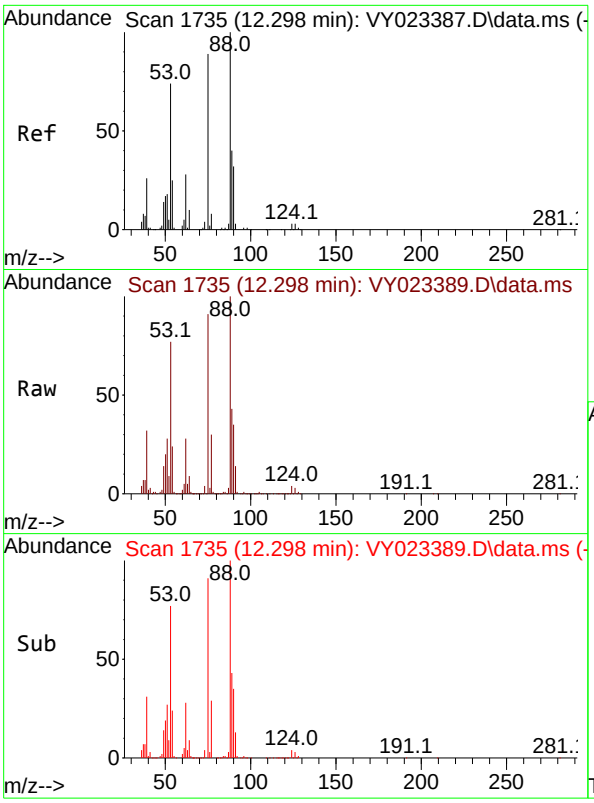



#80
1,3,5-Trimethylbenzene
Concen: 160.460 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:105 Resp: 3496249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 51.4 | 25.4 | 76.4 |

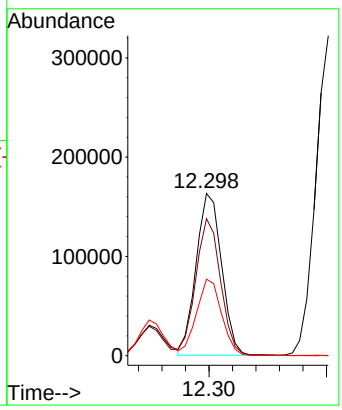





#81
trans-1,4-Dichloro-2-butene
Concen: 166.570 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 75 Resp: 24519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 83.6 | 68.6 | 102.8 |
| 89 | 46.8 | 39.0 | 58.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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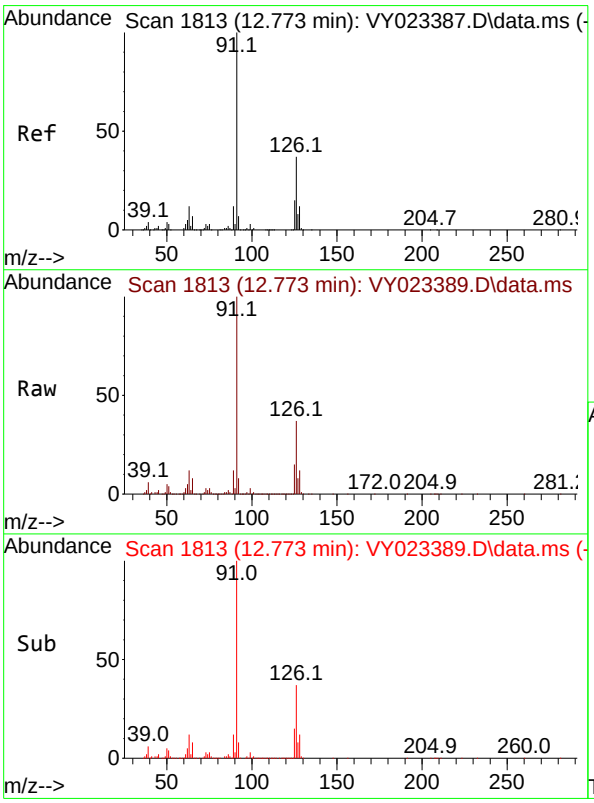
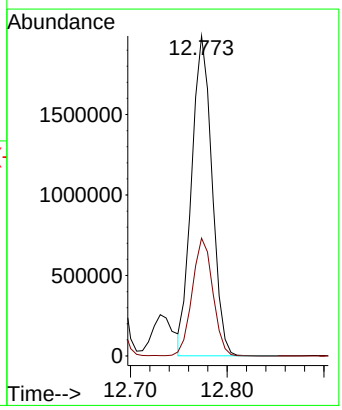
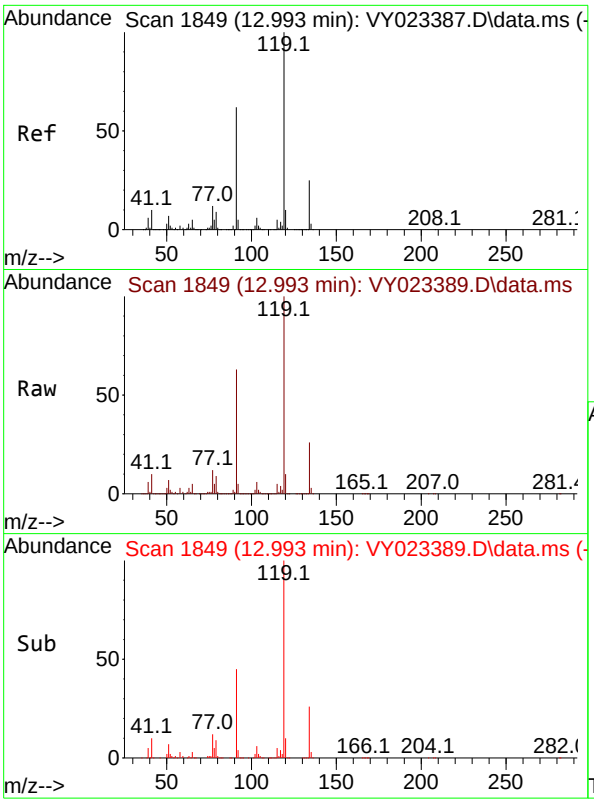



#82
4-Chlorotoluene
Concen: 152.701 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 91 Resp: 2902371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 37.3 | 18.4 | 55.4 |

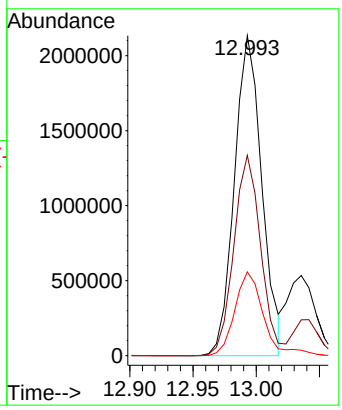





#83
tert-Butylbenzene
Concen: 162.197 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:119 Resp: 322038

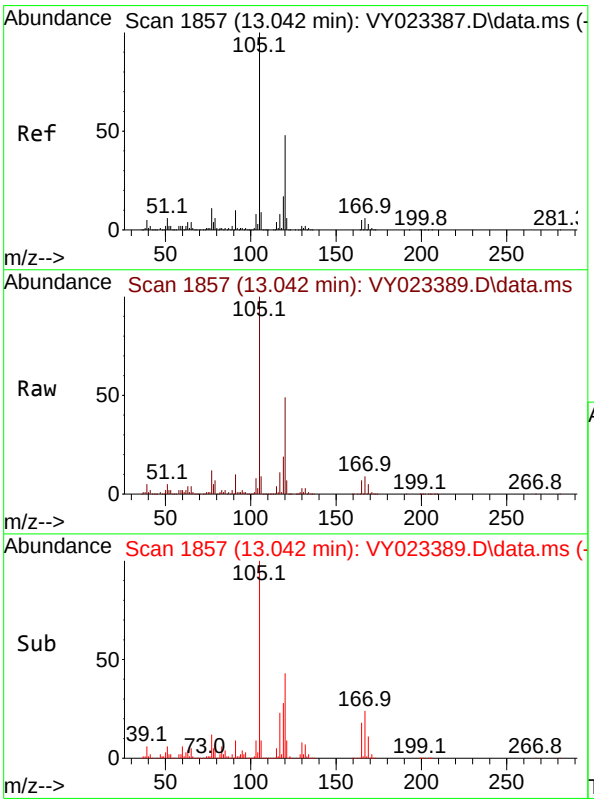
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 61.6 | 29.9 | 89.8 |
| 134 | 27.4 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

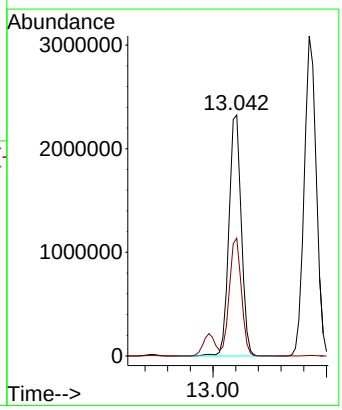
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

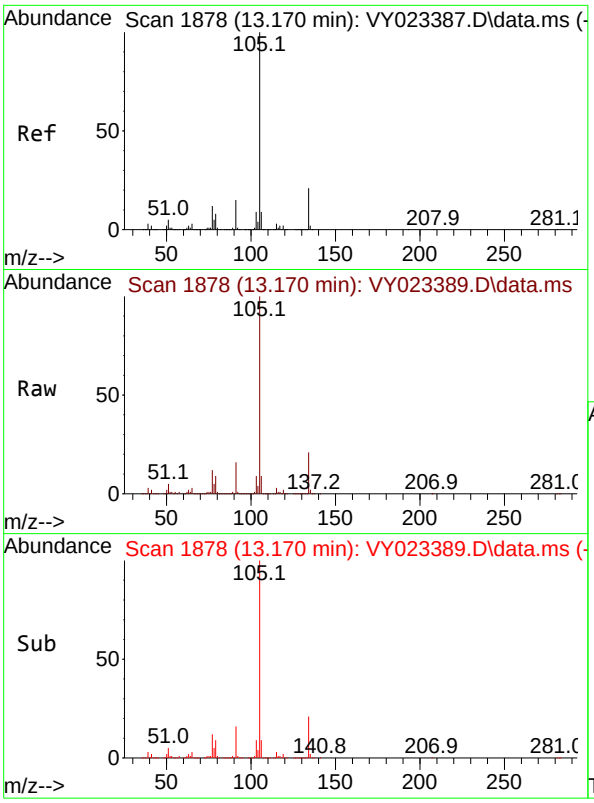



#84
1,2,4-Trimethylbenzene
Concen: 162.527 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:105 Resp: 3503639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.9 | 23.8 | 71.2 |

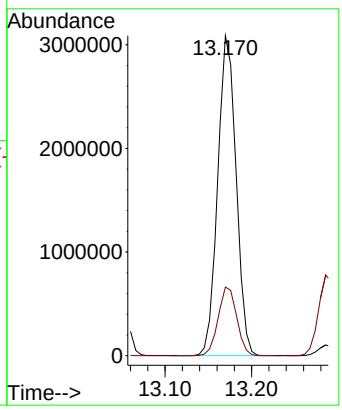





#85
sec-Butylbenzene
Concen: 158.609 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:105 Resp: 456071

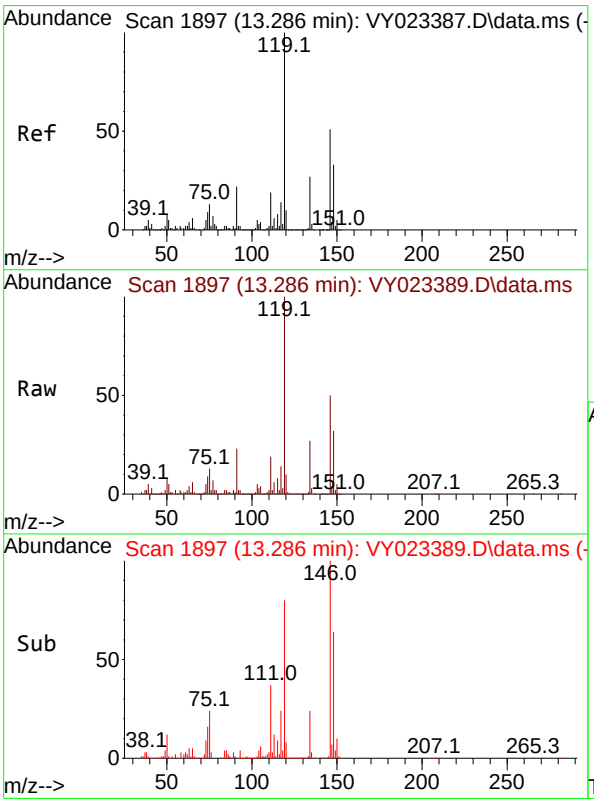
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.6 | 10.7 | 32.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

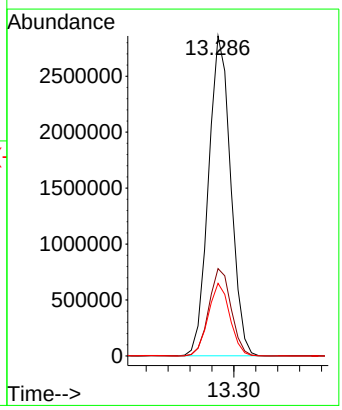
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

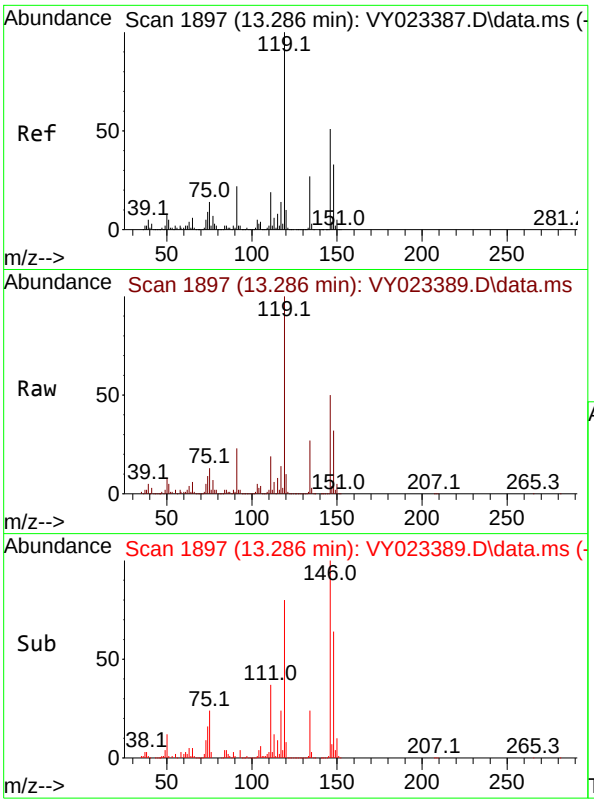



#86
p-Isopropyltoluene
Concen: 165.622 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:119 Resp: 4024712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 27.4 | 13.6 | 40.7 |
| 91 | 22.1 | 10.9 | 32.9 |






#87
1,3-Dichlorobenzene
Concen: 159.350 ug/l
RT: 13.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

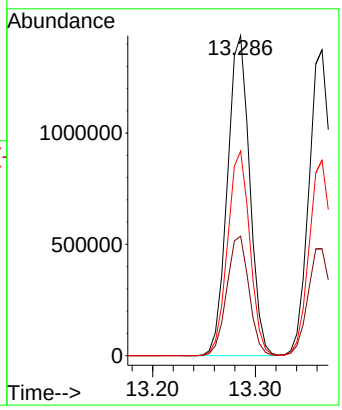
Tgt Ion:146 Resp: 216527

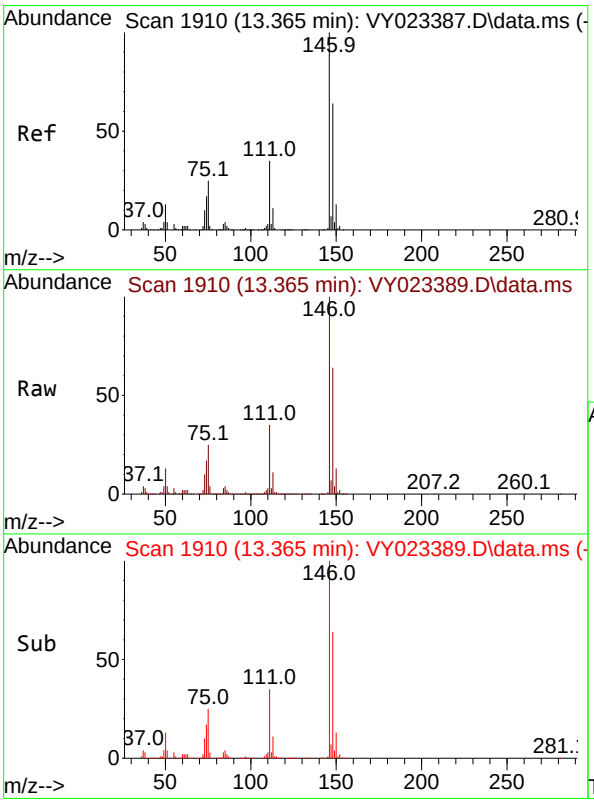
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.4 | 18.7 | 56.1 |
| 148 | 64.0 | 31.9 | 95.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

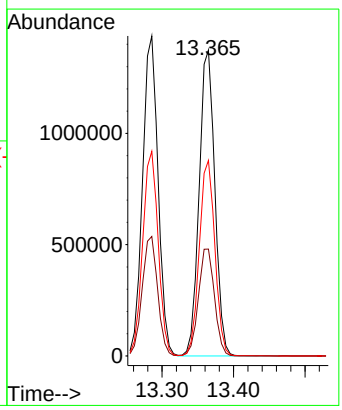


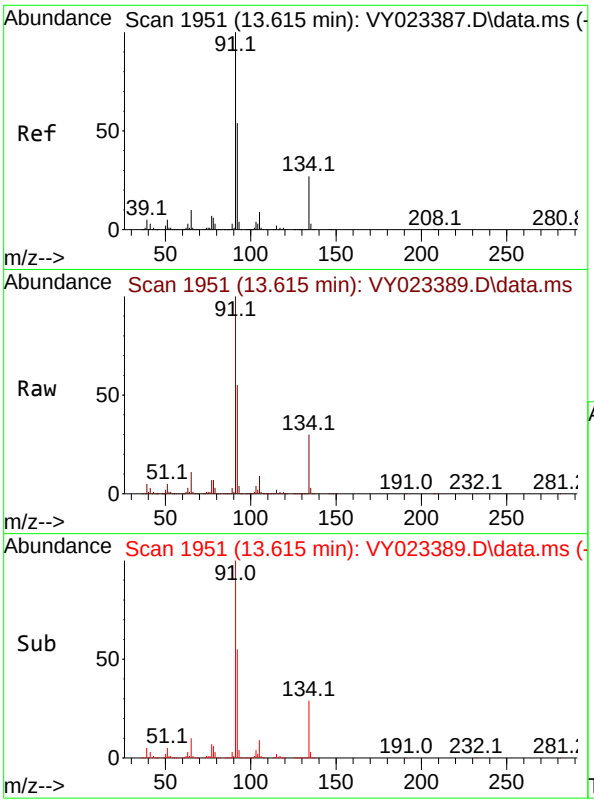




#88
1,4-Dichlorobenzene
Concen: 155.104 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:146 Resp: 2090133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 35.8 | 18.0 | 54.0 |
| 148 | 63.6 | 31.9 | 95.7 |






#89
n-Butylbenzene
Concen: 163.379 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

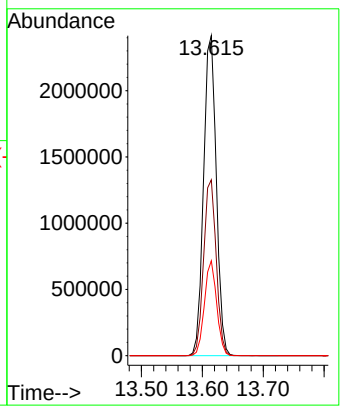
Tgt Ion: 91 Resp: 350571

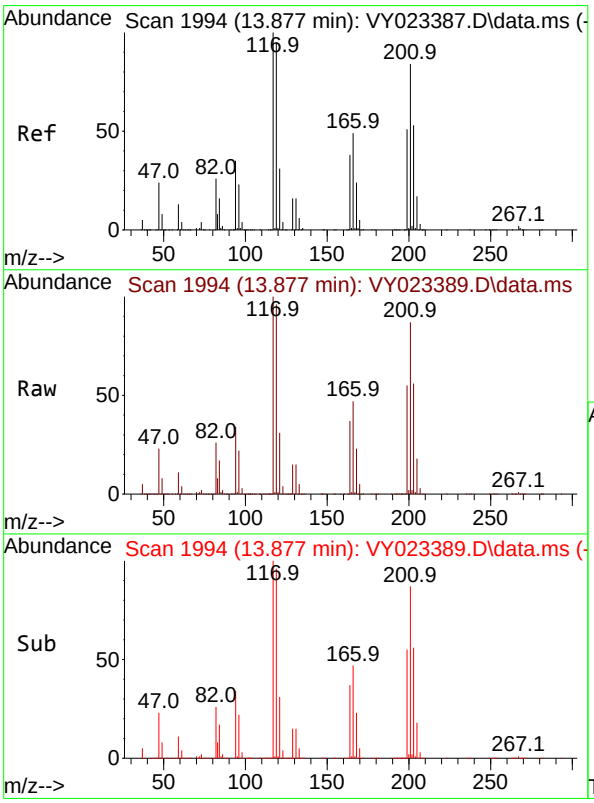
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.6 | 27.0 | 80.8 |
| 134 | 28.6 | 14.1 | 42.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

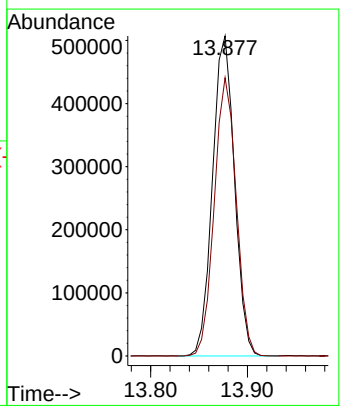


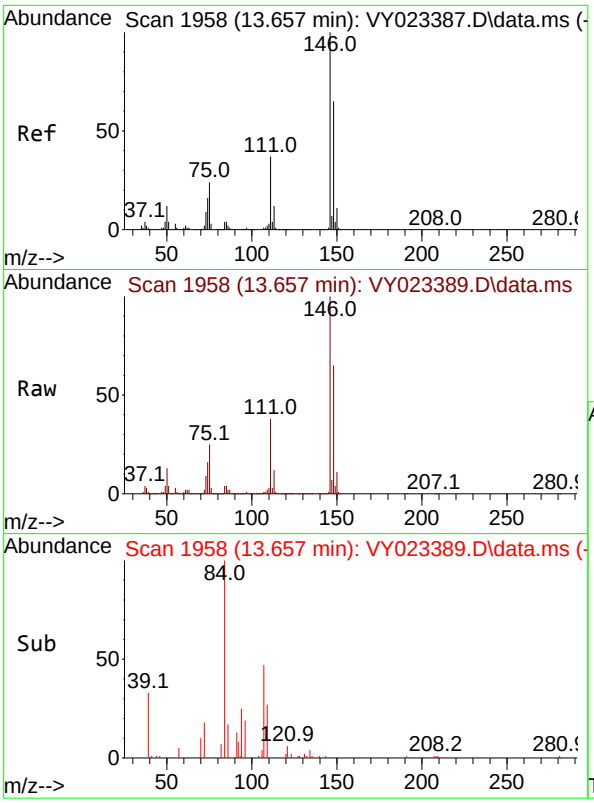




#90
Hexachloroethane
Concen: 151.487 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:117 Resp: 799264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 86.8 | 43.8 | 131.4 |

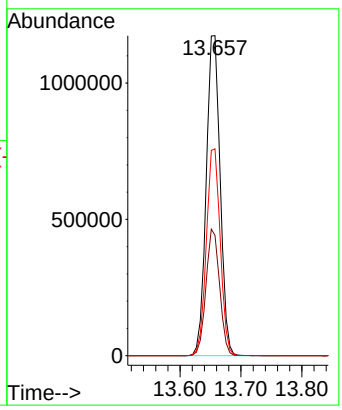





#91
1,2-Dichlorobenzene
Concen: 157.101 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:146 Resp: 186269

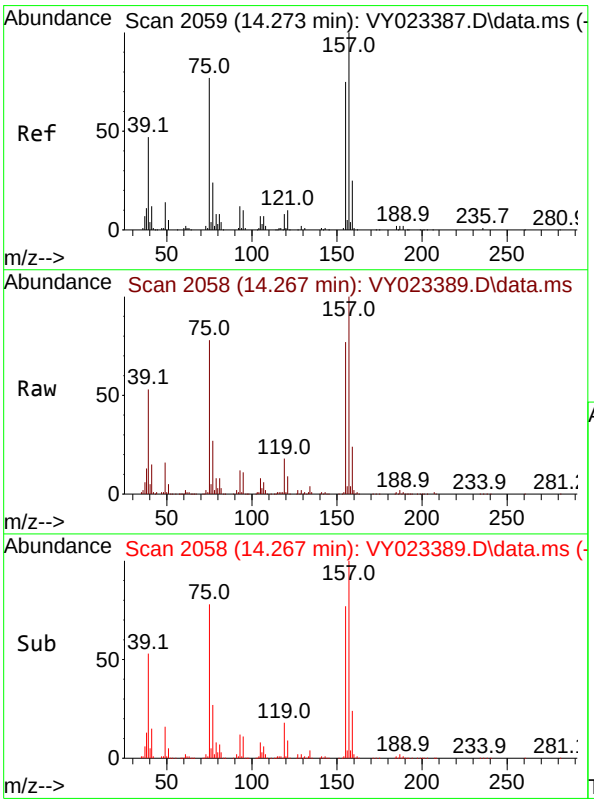
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.7 | 19.0 | 57.0 |
| 148 | 64.5 | 32.1 | 96.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

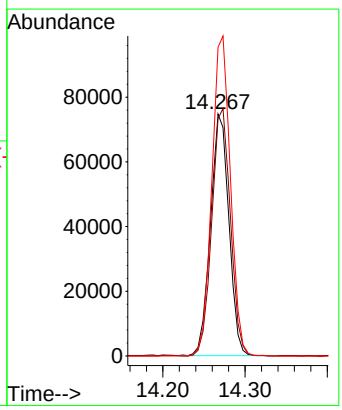
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

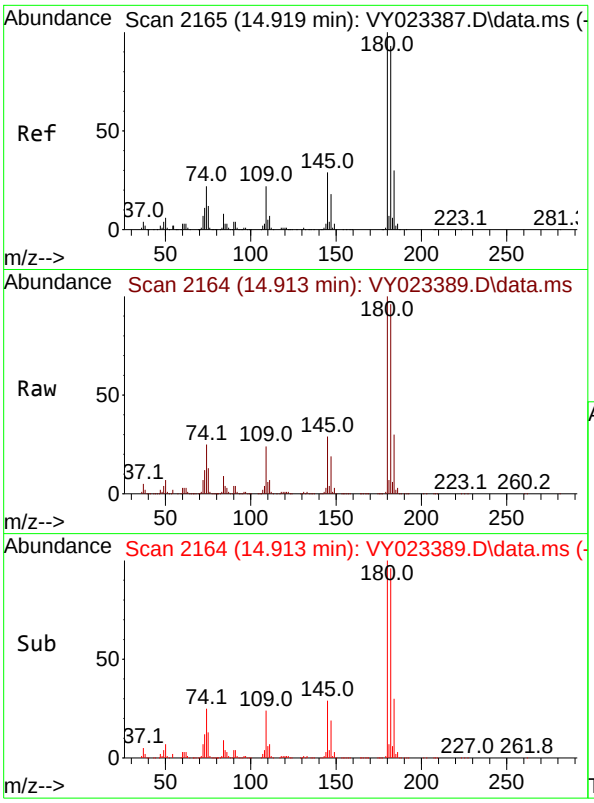



#92
1,2-Dibromo-3-Chloropropane
Concen: 164.099 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. -0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 75 Resp: 116273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 103.6 | 50.0 | 150.0 |
| 157 | 133.4 | 63.8 | 191.5 |

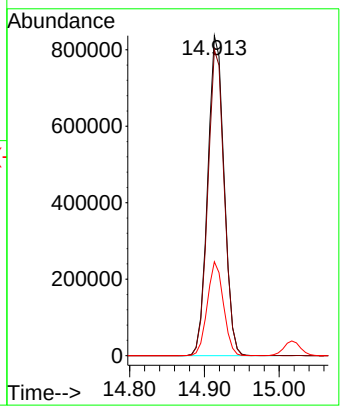





#93
1,2,4-Trichlorobenzene
Concen: 182.183 ug/l
RT: 14.913 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:180 Resp: 127262

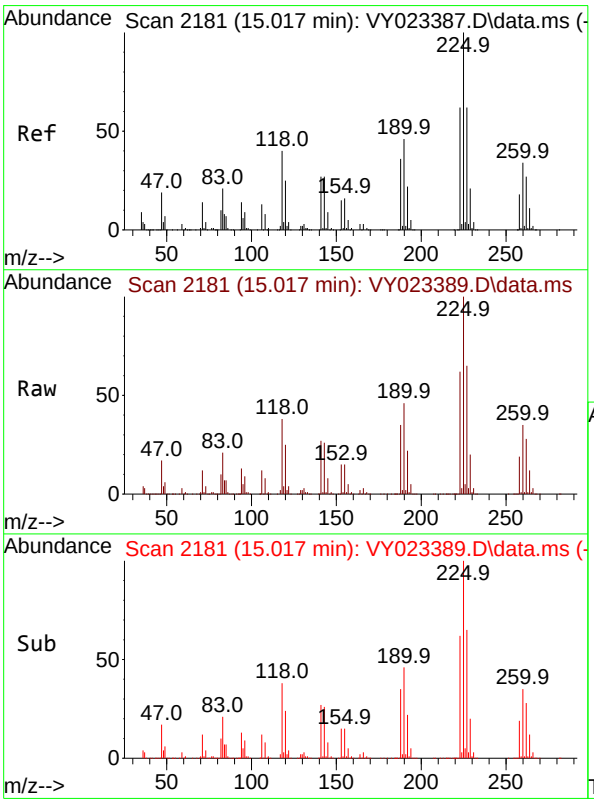
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.9 | 143.6 |
| 145 | 28.9 | 14.7 | 44.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

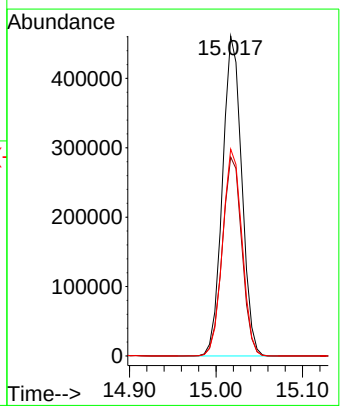
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

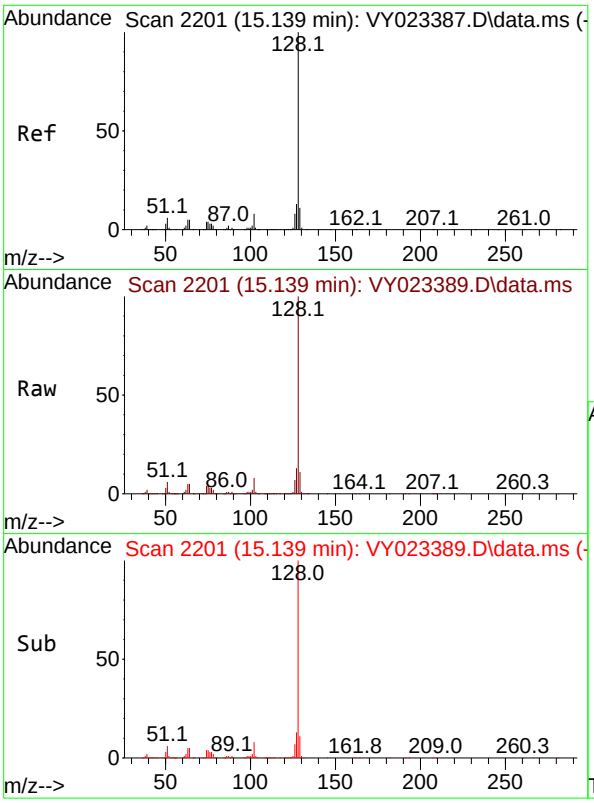



#94
Hexachlorobutadiene
Concen: 163.518 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:225 Resp: 711748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 30.8 | 92.3 |
| 227 | 65.0 | 31.9 | 95.7 |

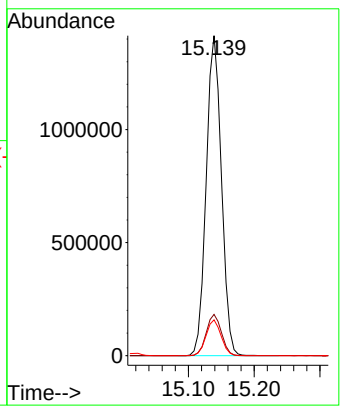





#95
Naphthalene
Concen: 204.639 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:128 Resp: 227754

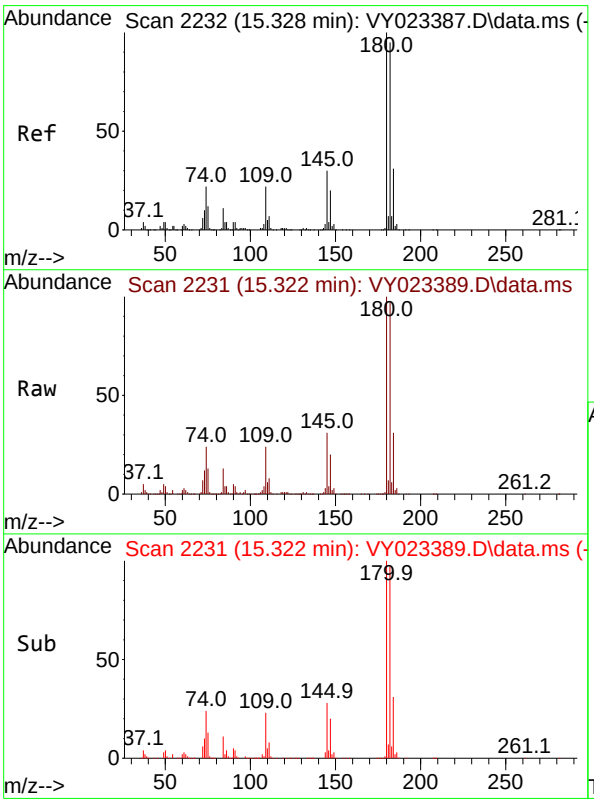
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.4 | 15.6 |
| 129 | 11.1 | 8.9 | 13.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

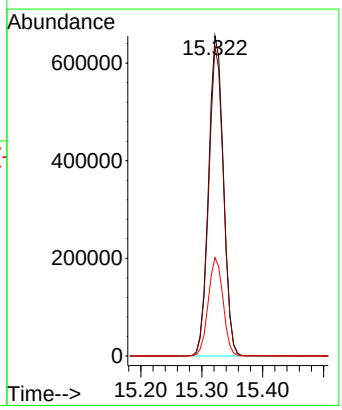
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025




#96
1,2,3-Trichlorobenzene
Concen: 183.206 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:180 Resp: 1110193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.9 | 143.8 |
| 145 | 30.5 | 15.3 | 45.9 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 574332 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 861639 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 771372 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 405636 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 237493 | 49.450 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 98.900% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 260038 | 49.116 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 98.240% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 970614 | 49.228 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 98.460% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 324700 | 49.881 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 99.760% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 185683 | 44.916 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 295766 | 52.519 | ug/l | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 362714 | 49.449 | ug/l | 100 |
| 5) Bromomethane | 2.598 | 94 | 300735 | 48.856 | ug/l | 98 |
| 6) Chloroethane | 2.739 | 64 | 256831 | 51.367 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.056 | 101 | 494789 | 48.582 | ug/l | 99 |
| 8) Diethyl Ether | 3.458 | 74 | 135857 | 51.050 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 257524 | 48.728 | ug/l | 100 |
| 10) Methyl Iodide | 4.007 | 142 | 305209 | 51.875 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.860 | 59 | 82562 | 231.079 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 254382 | 49.653 | ug/l | 97 |
| 13) Acrolein | 3.653 | 56 | 124288 | 246.184 | ug/l | 99 |
| 14) Allyl chloride | 4.385 | 41 | 316213 | 50.645 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 256219 | 251.575 | ug/l | 99 |
| 16) Acetone | 3.866 | 43 | 243433 | 212.910 | ug/l | 98 |
| 17) Carbon Disulfide | 4.104 | 76 | 733457 | 50.021 | ug/l | 100 |
| 18) Methyl Acetate | 4.385 | 43 | 151281 | 50.439 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 643111 | 52.230 | ug/l | 97 |
| 20) Methylene Chloride | 4.616 | 84 | 324604 | 52.503 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 290384 | 51.482 | ug/l | 98 |
| 22) Diisopropyl ether | 6.019 | 45 | 709381 | 51.364 | ug/l | 99 |
| 23) Vinyl Acetate | 5.958 | 43 | 1950969 | 260.981 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 464207 | 50.742 | ug/l | 98 |
| 25) 2-Butanone | 6.890 | 43 | 325351 | 233.083 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 416585 | 49.626 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 341964 | 52.485 | ug/l | 97 |
| 28) Bromochloromethane | 7.244 | 49 | 155146 | 45.427 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.262 | 42 | 200513 | 253.317 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 513997 | 51.137 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 378819 | 47.416 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 456112 | 49.934 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 348786 | 49.761 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 138119 | 49.740 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 413653 | 48.671 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 456031 | 49.970 | ug/l | 99 |
| 40) Benzene | 8.079 | 78 | 1107790 | 49.906 | ug/l | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 41) | Methacrylonitrile | 7.220 | 41 | 72100 | 48.008 | ug/l | | 96 |
| 42) | 1,2-Dichloroethane | 8.158 | 62 | 282332 | 49.318 | ug/l | | 99 |
| 43) | Isopropyl Acetate | 8.195 | 43 | 279887 | 50.548 | ug/l | | 100 |
| 44) | Trichloroethene | 8.866 | 130 | 319131 | 49.120 | ug/l | | 98 |
| 45) | 1,2-Dichloropropane | 9.140 | 63 | 246887 | 50.355 | ug/l | | 100 |
| 46) | Dibromomethane | 9.231 | 93 | 157758 | 50.885 | ug/l | | 98 |
| 47) | Bromodichloromethane | 9.420 | 83 | 393918 | 50.450 | ug/l | | 99 |
| 48) | Methyl methacrylate | 9.219 | 41 | 128606 | 49.440 | ug/l | | 95 |
| 49) | 1,4-Dioxane | 9.231 | 88 | 37356 | 1039.252 | ug/l | | 97 |
| 51) | 4-Methyl-2-Pentanone | 10.000 | 43 | 724992 | 253.421 | ug/l | | 100 |
| 52) | Toluene | 10.170 | 92 | 743055 | 51.556 | ug/l | | 99 |
| 53) | t-1,3-Dichloropropene | 10.390 | 75 | 347336 | 51.160 | ug/l | | 99 |
| 54) | cis-1,3-Dichloropropene | 9.853 | 75 | 413860 | 51.649 | ug/l | | 99 |
| 55) | 1,1,2-Trichloroethane | 10.573 | 97 | 210245 | 50.430 | ug/l | | 97 |
| 56) | Ethyl methacrylate | 10.438 | 69 | 256731 | 53.385 | ug/l | | 99 |
| 57) | 1,3-Dichloropropane | 10.713 | 76 | 337673 | 51.113 | ug/l | | 99 |
| 58) | 2-Chloroethyl Vinyl ether | 9.713 | 63 | 586266 | 272.133 | ug/l | | 100 |
| 59) | 2-Hexanone | 10.762 | 43 | 501877 | 245.480 | ug/l | | 99 |
| 60) | Dibromochloromethane | 10.908 | 129 | 297946 | 50.974 | ug/l | | 99 |
| 61) | 1,2-Dibromoethane | 11.018 | 107 | 201415 | 50.658 | ug/l | | 100 |
| 64) | Tetrachloroethene | 10.646 | 164 | 382998 | 48.087 | ug/l | | 99 |
| 65) | Chlorobenzene | 11.438 | 112 | 828466 | 49.381 | ug/l | | 100 |
| 66) | 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 296157 | 49.537 | ug/l | | 99 |
| 67) | Ethyl Benzene | 11.518 | 91 | 1380691 | 50.841 | ug/l | | 100 |
| 68) | m/p-Xylenes | 11.627 | 106 | 1108386 | 101.757 | ug/l | | 100 |
| 69) | o-Xylene | 11.950 | 106 | 526954 | 51.577 | ug/l | | 100 |
| 70) | Styrene | 11.969 | 104 | 875709 | 52.122 | ug/l | | 100 |
| 71) | Bromoform | 12.133 | 173 | 185682 | 50.070 | ug/l | # | 98 |
| 73) | Isopropylbenzene | 12.255 | 105 | 1345109 | 50.318 | ug/l | | 100 |
| 74) | N-amyl acetate | 12.066 | 43 | 245291 | 51.087 | ug/l | | 99 |
| 75) | 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 217245 | 49.688 | ug/l | | 99 |
| 76) | 1,2,3-Trichloropropane | 12.554 | 75 | 153438m | 42.874 | ug/l | | |
| 77) | Bromobenzene | 12.530 | 156 | 352420 | 49.590 | ug/l | | 99 |
| 78) | n-propylbenzene | 12.591 | 91 | 1568180 | 50.694 | ug/l | | 100 |
| 79) | 2-Chlorotoluene | 12.676 | 91 | 906610 | 50.047 | ug/l | | 100 |
| 80) | 1,3,5-Trimethylbenzene | 12.737 | 105 | 1106664 | 51.231 | ug/l | | 99 |
| 81) | trans-1,4-Dichloro-2-b... | 12.304 | 75 | 67959 | 46.566 | ug/l | | 97 |
| 82) | 4-Chlorotoluene | 12.773 | 91 | 941314 | 50.455 | ug/l | | 100 |
| 83) | tert-Butylbenzene | 12.993 | 119 | 1037510 | 52.019 | ug/l | | 99 |
| 84) | 1,2,4-Trimethylbenzene | 13.042 | 105 | 1110672 | 51.520 | ug/l | | 99 |
| 85) | sec-Butylbenzene | 13.176 | 105 | 1454774 | 50.848 | ug/l | | 100 |
| 86) | p-Isopropyltoluene | 13.292 | 119 | 1263377 | 51.864 | ug/l | | 99 |
| 87) | 1,3-Dichlorobenzene | 13.286 | 146 | 686854 | 49.632 | ug/l | | 99 |
| 88) | 1,4-Dichlorobenzene | 13.365 | 146 | 671644 | 49.140 | ug/l | | 100 |
| 89) | n-Butylbenzene | 13.615 | 91 | 1100086 | 51.829 | ug/l | | 99 |
| 90) | Hexachloroethane | 13.877 | 117 | 257335 | 49.116 | ug/l | | 98 |
| 91) | 1,2-Dichlorobenzene | 13.657 | 146 | 602989 | 49.698 | ug/l | | 99 |
| 92) | 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 34928 | 48.687 | ug/l | | 99 |
| 93) | 1,2,4-Trichlorobenzene | 14.919 | 180 | 386806 | 51.138 | ug/l | | 100 |
| 94) | Hexachlorobutadiene | 15.023 | 225 | 236040 | 50.061 | ug/l | | 99 |
| 95) | Naphthalene | 15.139 | 128 | 628190 | 52.154 | ug/l | | 100 |
| 96) | 1,2,3-Trichlorobenzene | 15.328 | 180 | 335267 | 51.172 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

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Reviewed By :Semsettin Yesilyurt 10/10/2025
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Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

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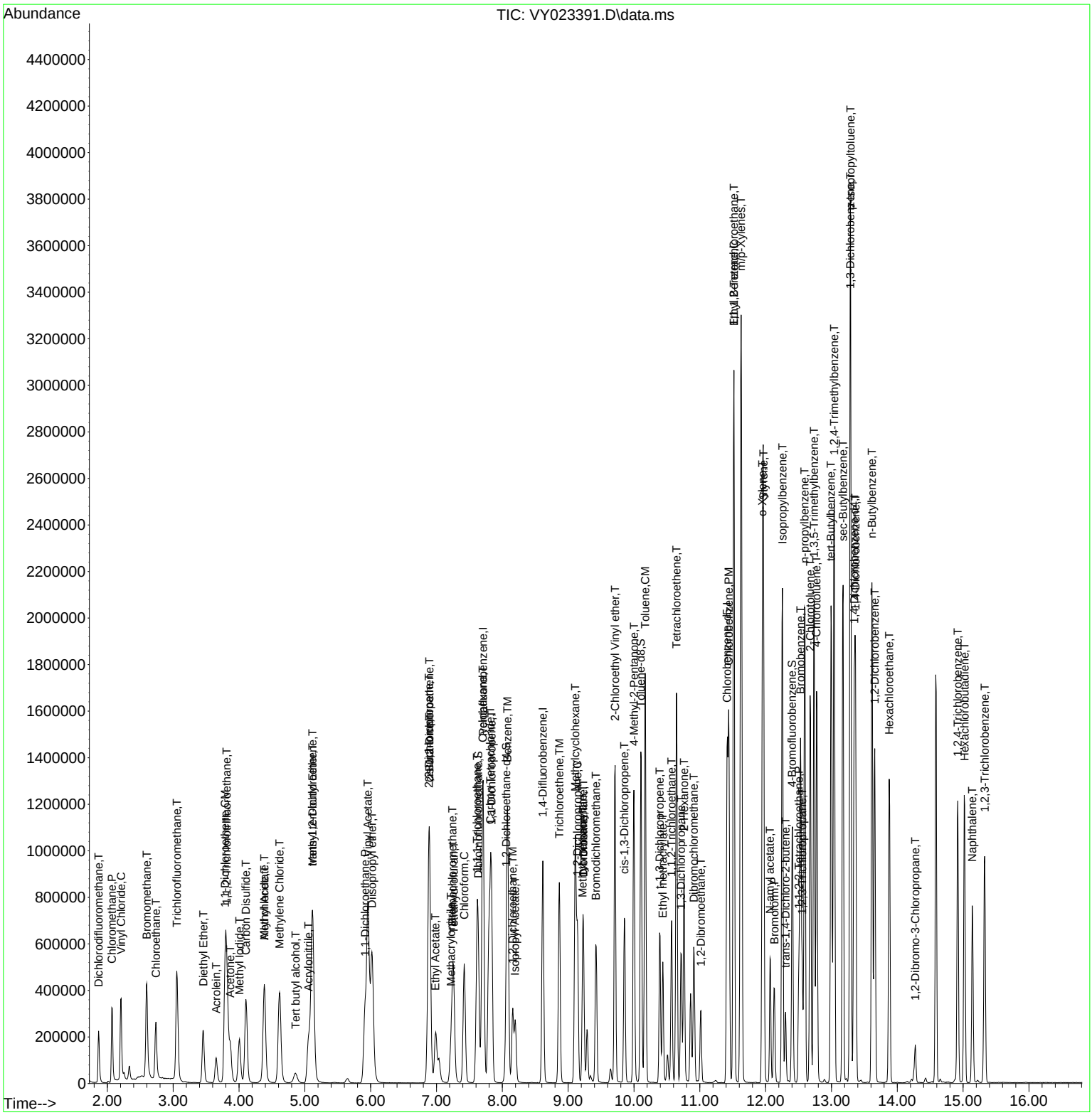

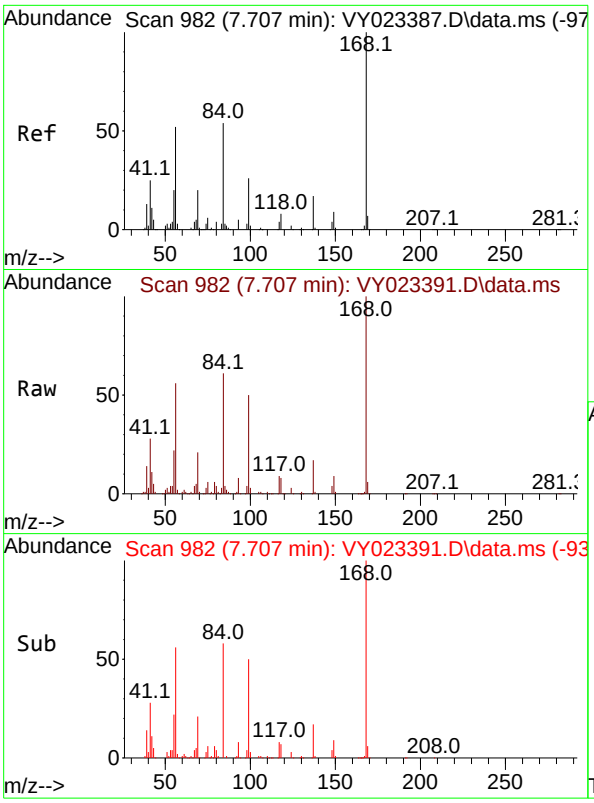


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:168 Resp: 57433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 50.4 | 39.7 | 59.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

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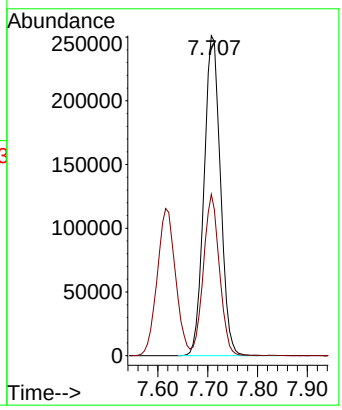
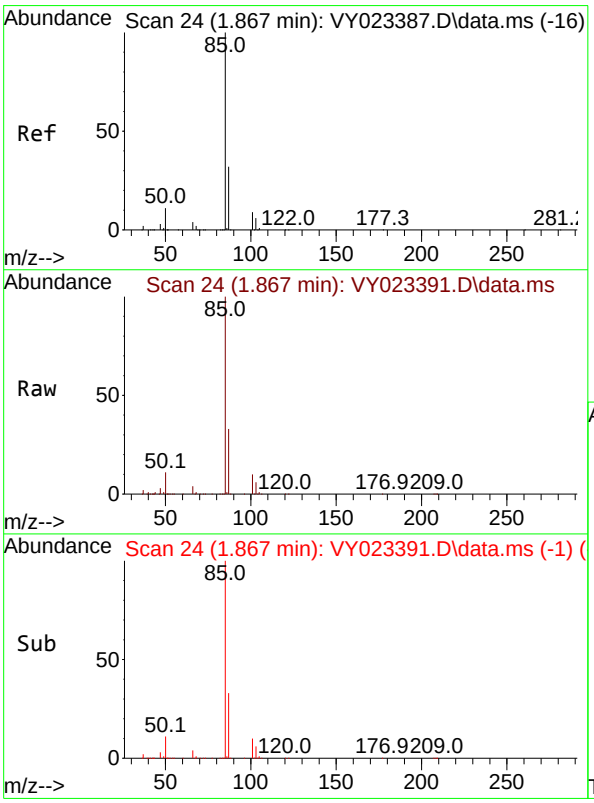
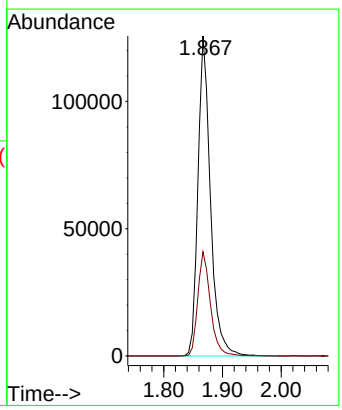


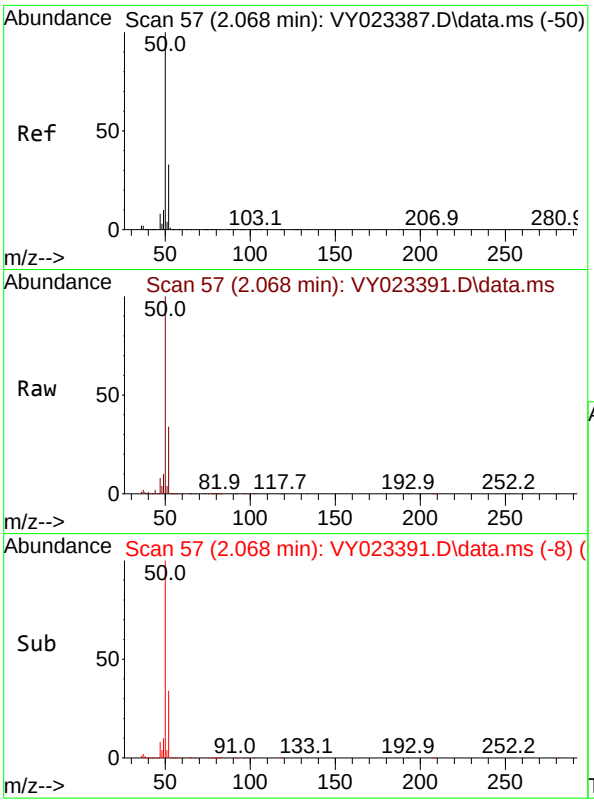




#2
Dichlorodifluoromethane
Concen: 44.916 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 85 Resp: 185683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.6 | 16.0 | 47.9 |

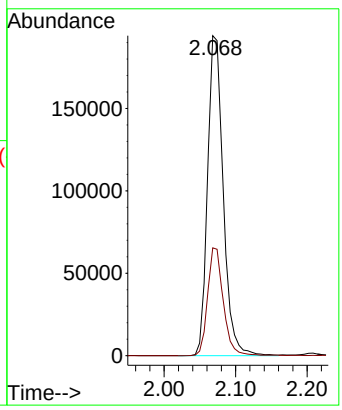





#3
Chloromethane
Concen: 52.519 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 50 Resp: 29576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.7 | 26.2 | 39.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

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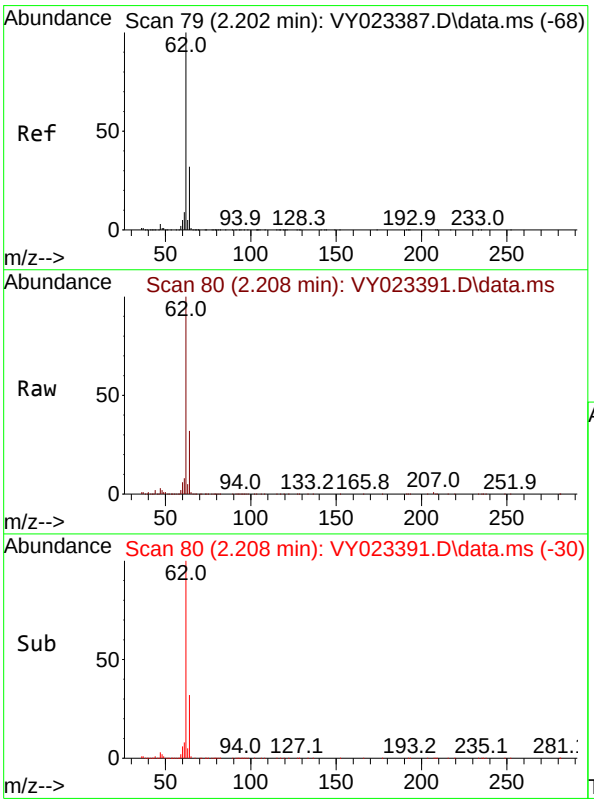
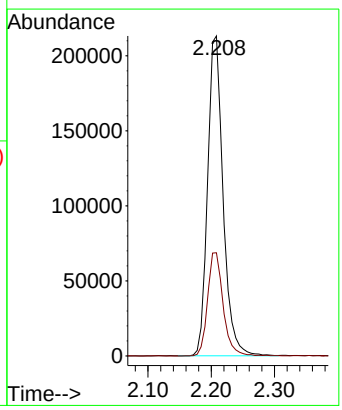
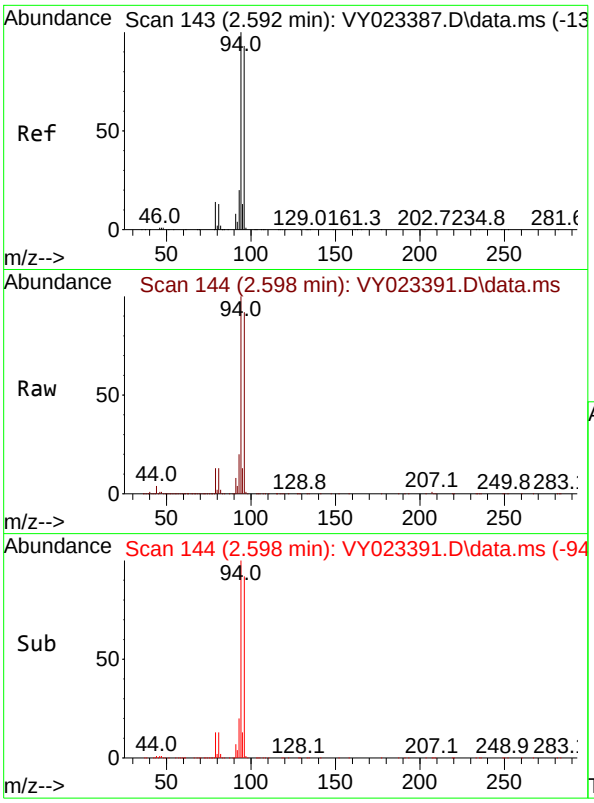



#4
Vinyl Chloride
Concen: 49.449 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 62 Resp: 362714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.3 | 25.8 | 38.8 |

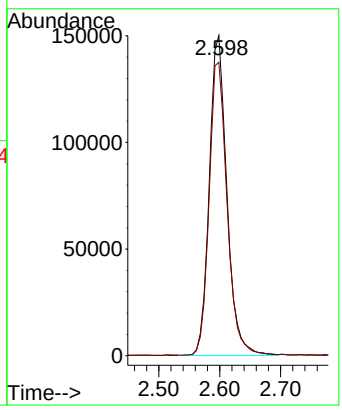





#5
Bromomethane
Concen: 48.856 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 94 Resp: 30073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.5 | 74.5 | 111.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

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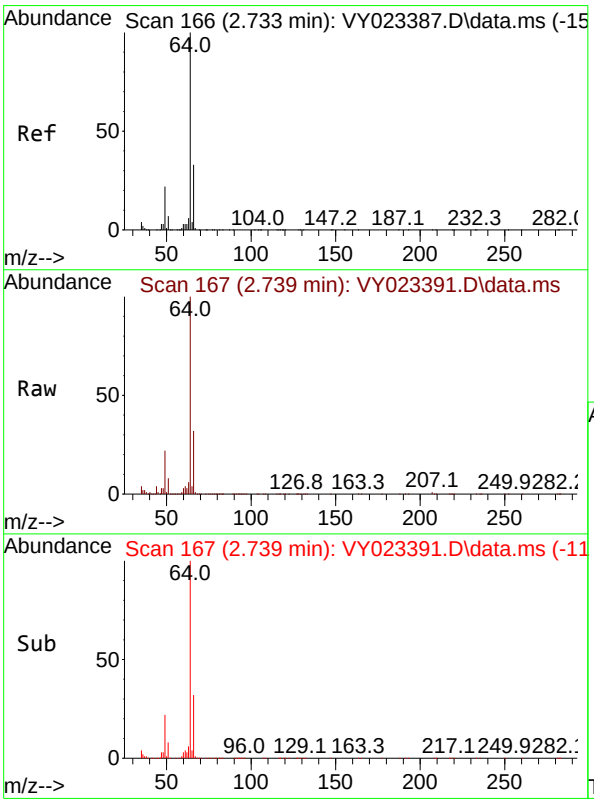
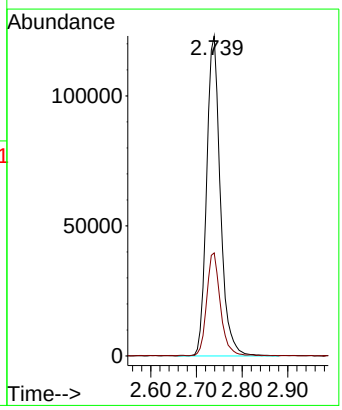
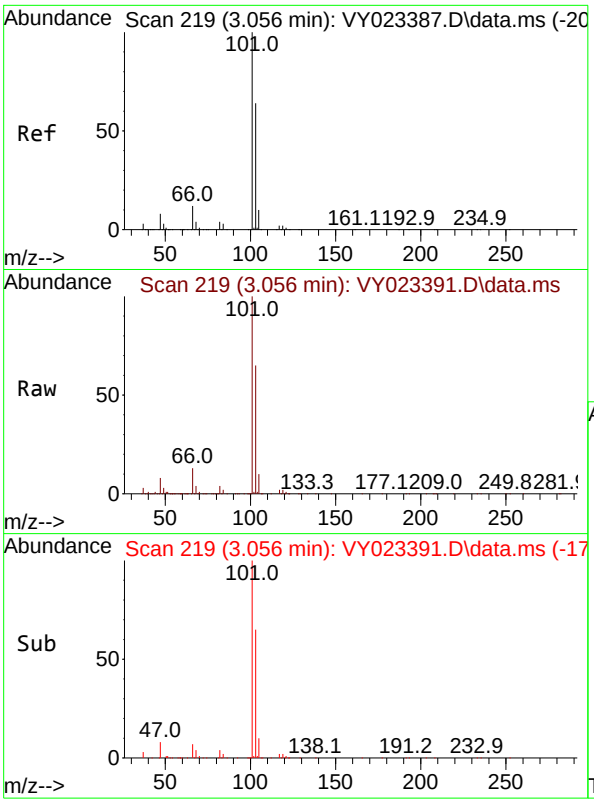



#6
Chloroethane
Concen: 51.367 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 64 Resp: 256831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.1 | 26.2 | 39.4 |

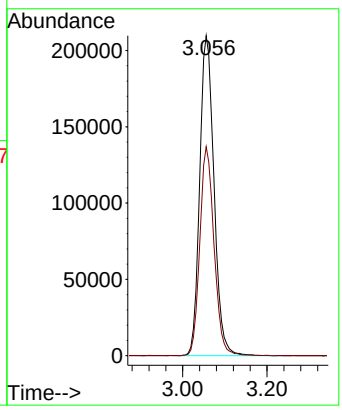





#7
Trichlorofluoromethane
Concen: 48.582 ug/l
RT: 3.056 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:101 Resp: 49478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.3 | 51.3 | 76.9 |

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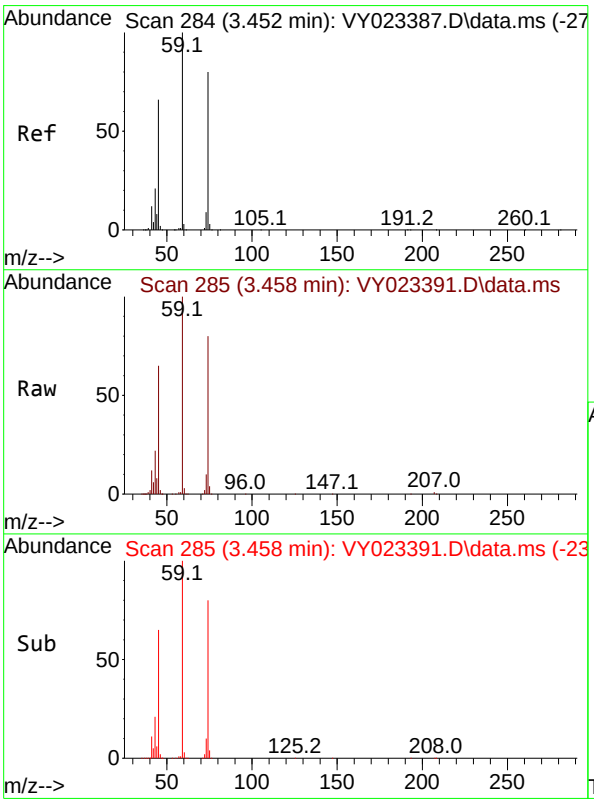
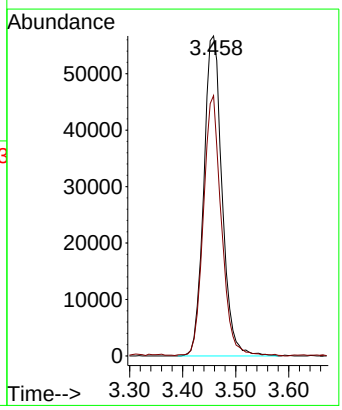
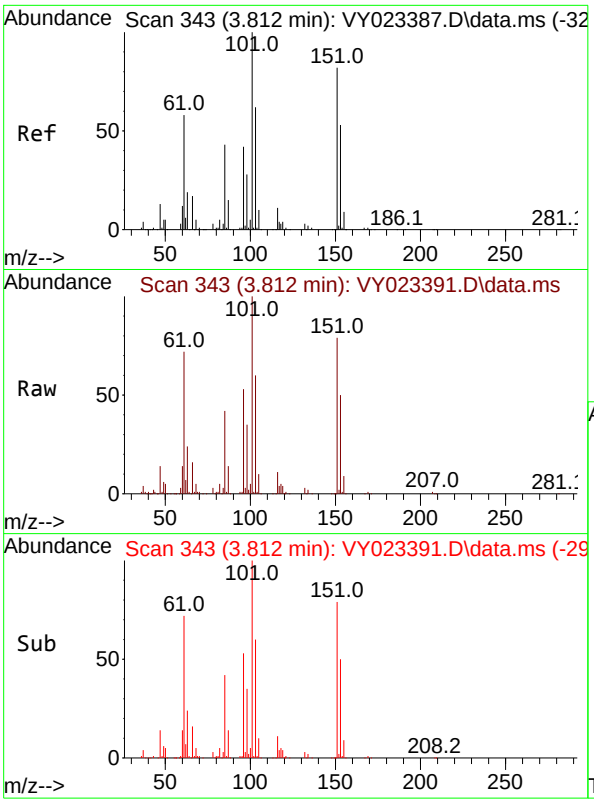



#8
Diethyl Ether
Concen: 51.050 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 74 Resp: 135857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 80.1 | 39.9 | 119.7 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.728 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

Tgt Ion:101 Resp: 25752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.2 | 34.6 | 51.8 |
| 151 | 83.2 | 67.0 | 100.6 |

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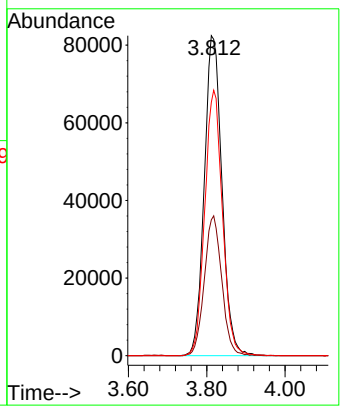
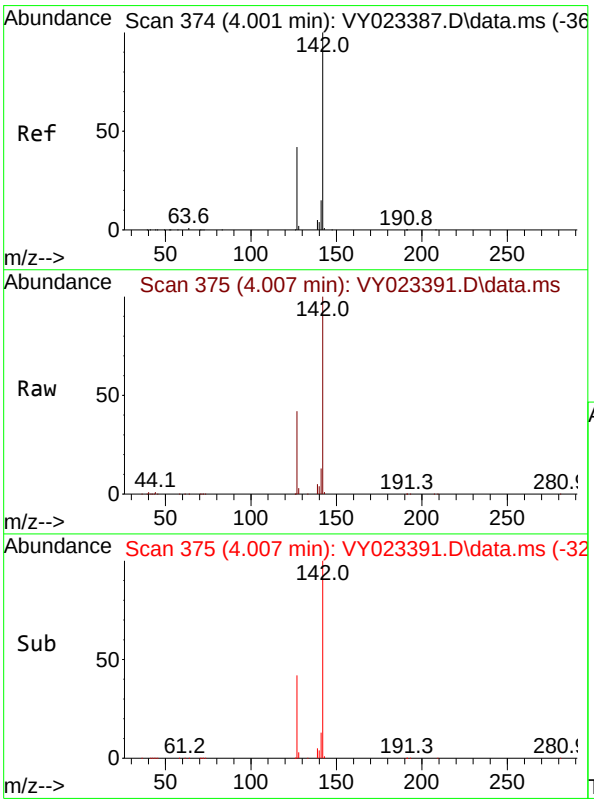
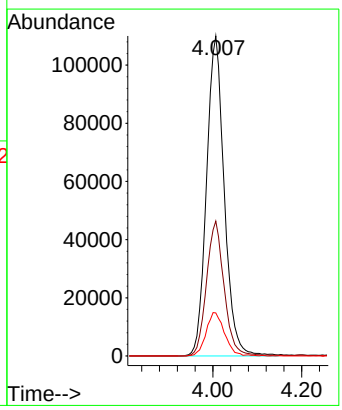


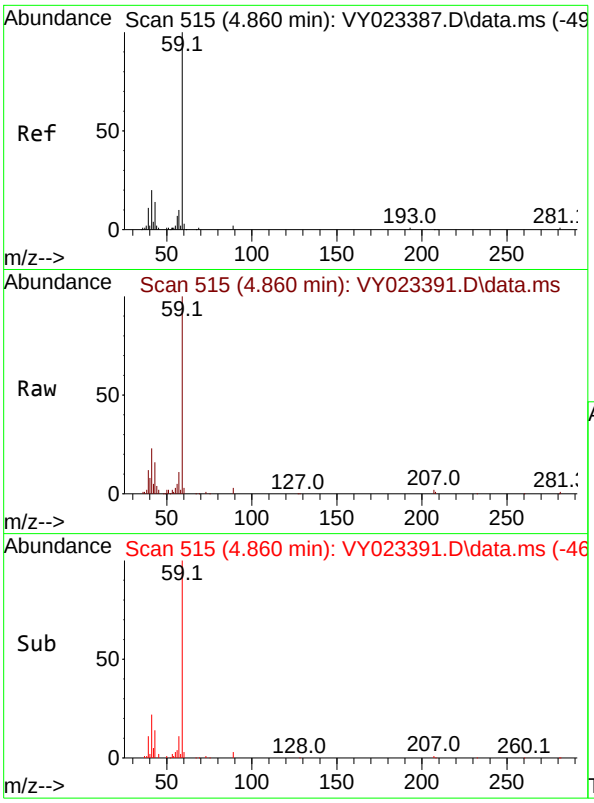




#10
Methyl Iodide
Concen: 51.875 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:142 Resp: 305209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 41.8 | 34.8 | 52.2 |
| 141 | 14.1 | 11.6 | 17.4 |

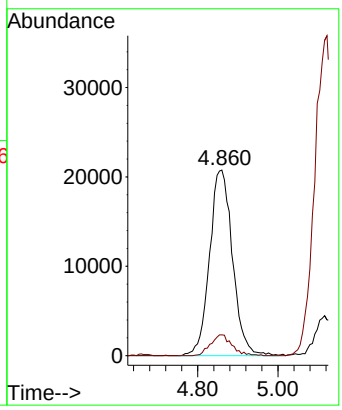





#11
Tert butyl alcohol
Concen: 231.079 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 59 Resp: 8256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.5 | 8.3 | 12.5 |

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MSVOA_Y
**ClientSampleId :**
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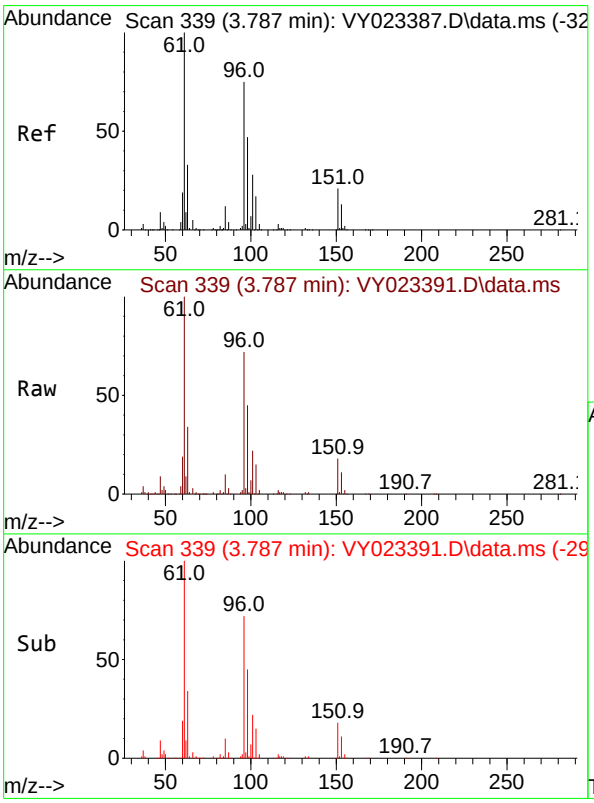
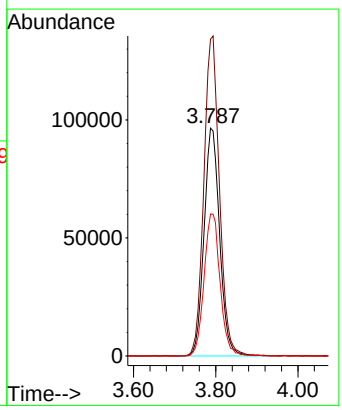
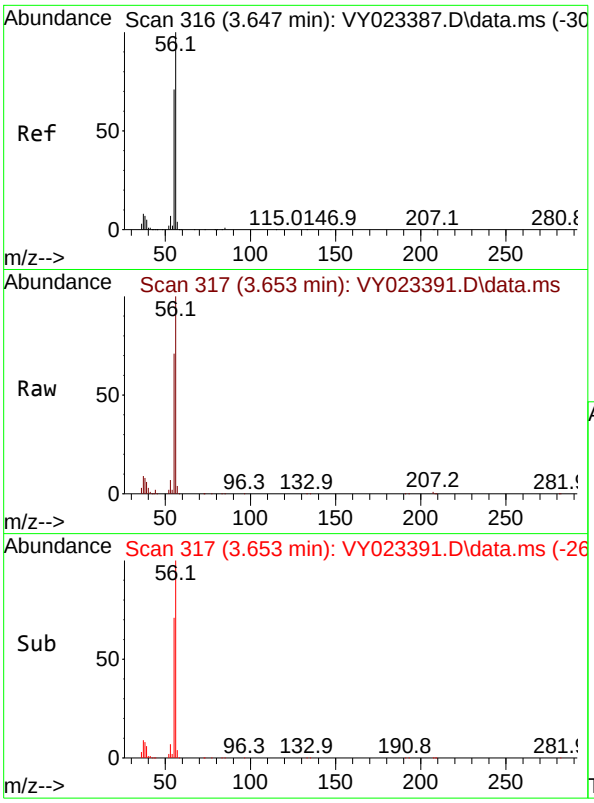



#12
1,1-Dichloroethene
Concen: 49.653 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 96 Resp: 254382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.1 | 106.7 | 160.1 |
| 98 | 62.3 | 50.2 | 75.4 |

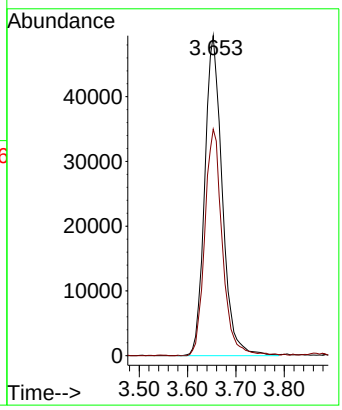





#13
Acrolein
Concen: 246.184 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 56 Resp: 12428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.1 | 56.1 | 84.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
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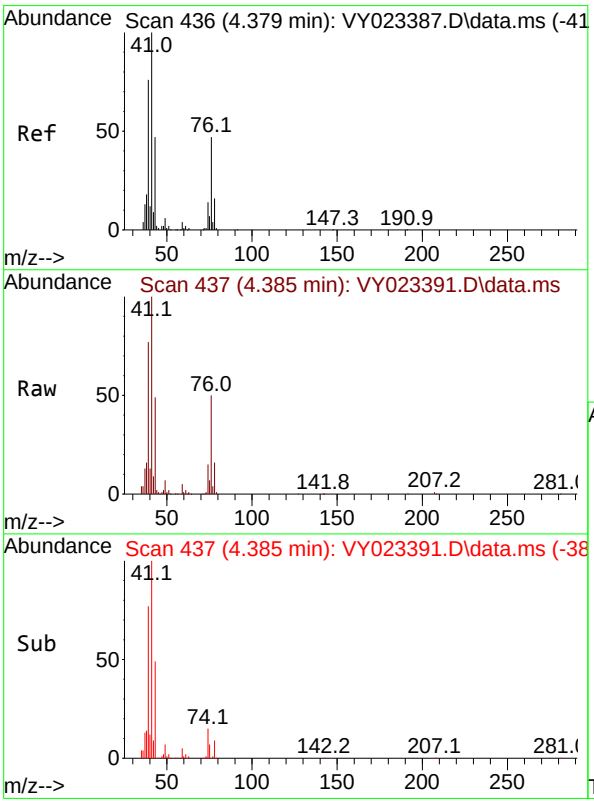
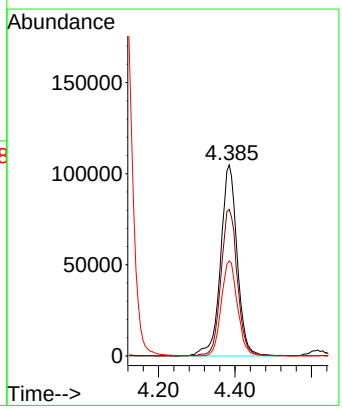
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

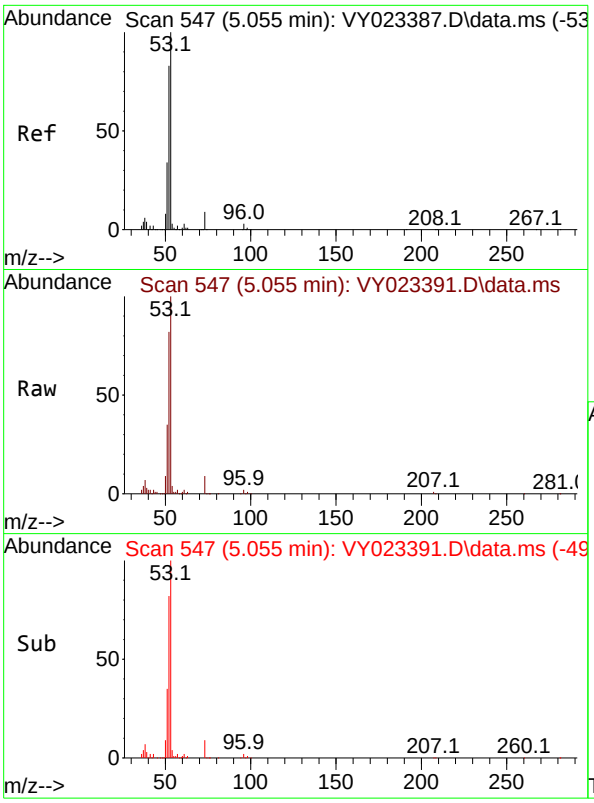



#14
Allyl chloride
Concen: 50.645 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 41 Resp: 316213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 76.2 | 59.9 | 89.9 |
| 76 | 48.1 | 38.0 | 57.0 |

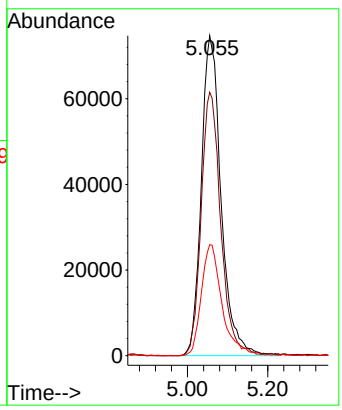





#15
Acrylonitrile
Concen: 251.575 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 53 Resp: 25621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.7 | 64.6 | 97.0 |
| 51 | 36.4 | 29.5 | 44.3 |




**Instrument :**
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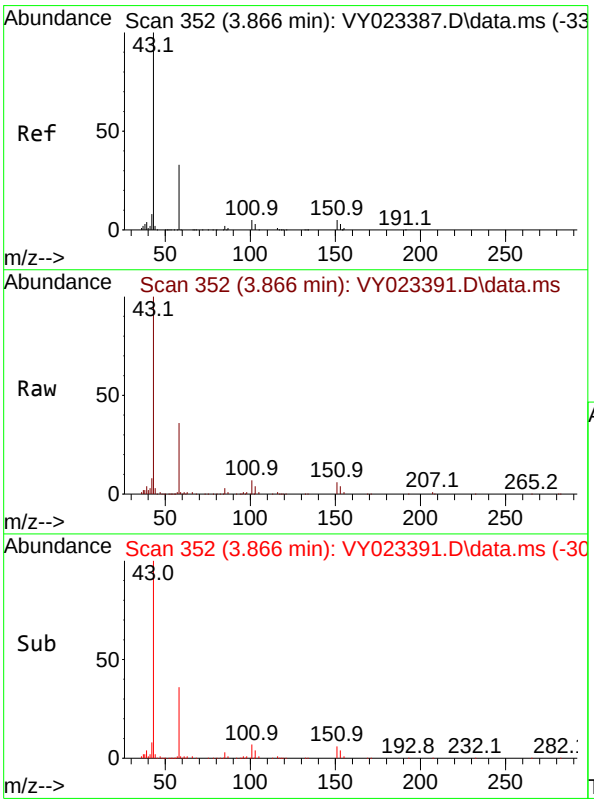
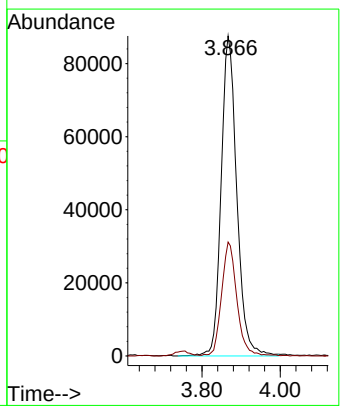
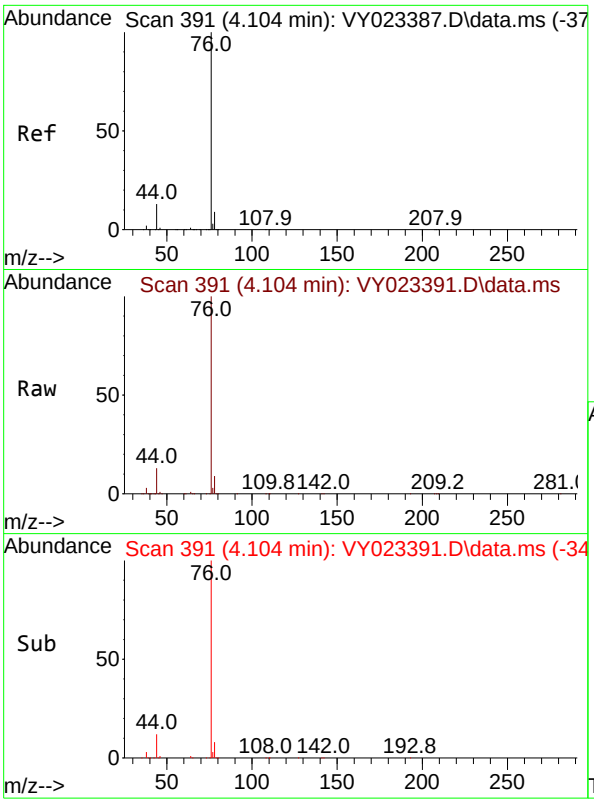



#16
Acetone
Concen: 212.910 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 243433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.5 | 27.7 | 41.5 |

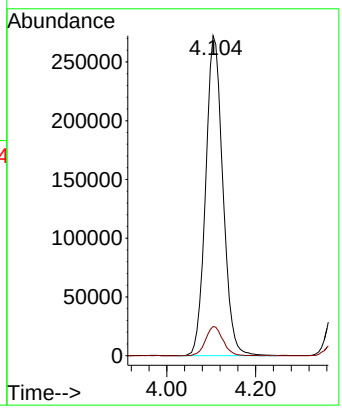





#17
Carbon Disulfide
Concen: 50.021 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 76 Resp: 73345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.3 | 10.9 |




**Instrument :**
MSVOA_Y
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**Manual Integrations**
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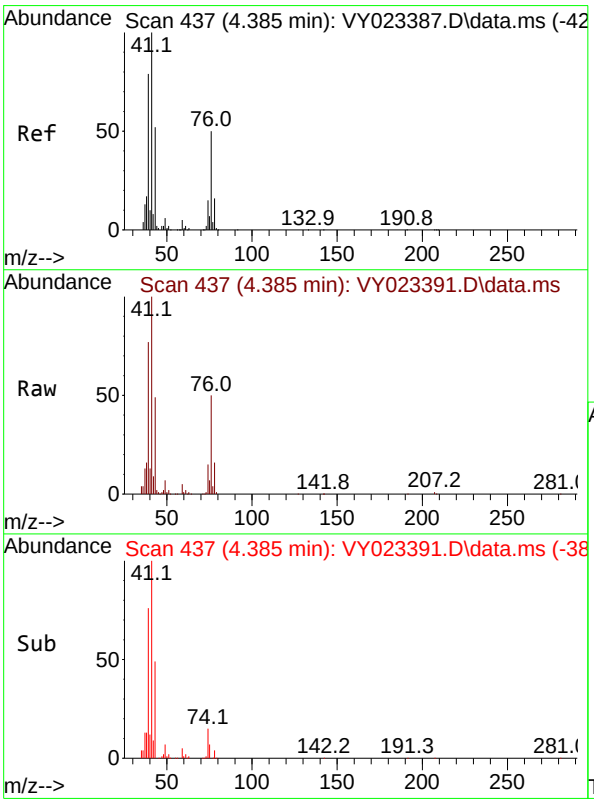
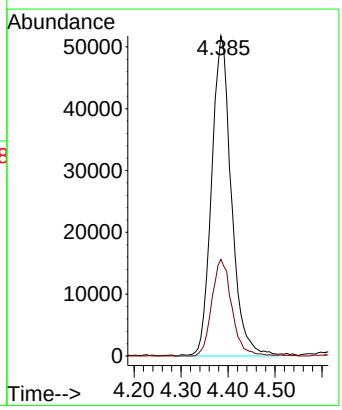
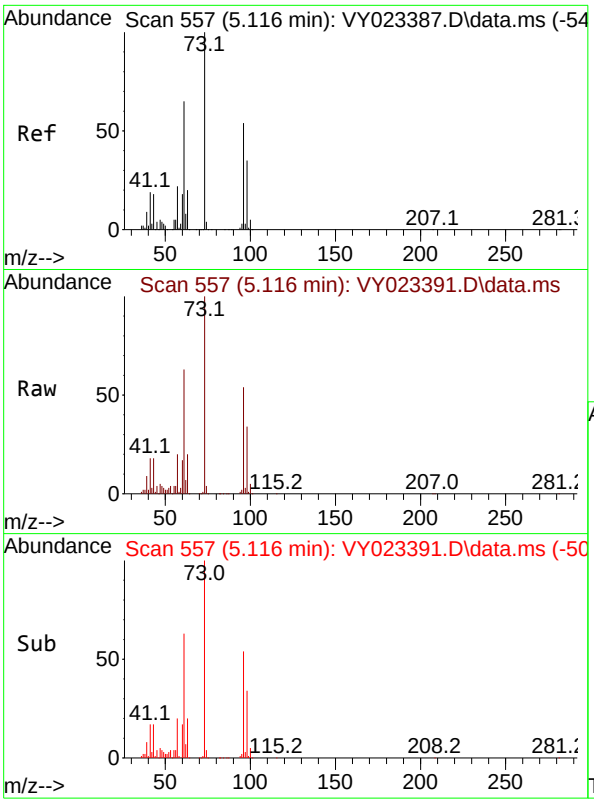



#18
Methyl Acetate
Concen: 50.439 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 151281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 30.5 | 24.2 | 36.4 |

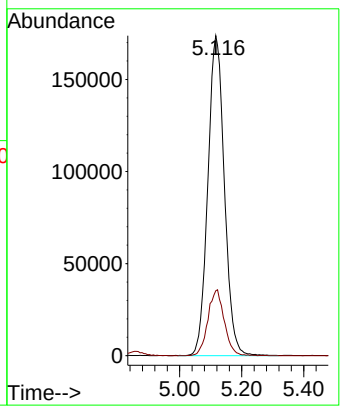





#19
Methyl tert-butyl Ether
Concen: 52.230 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 73 Resp: 64311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.3 | 17.4 | 26.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
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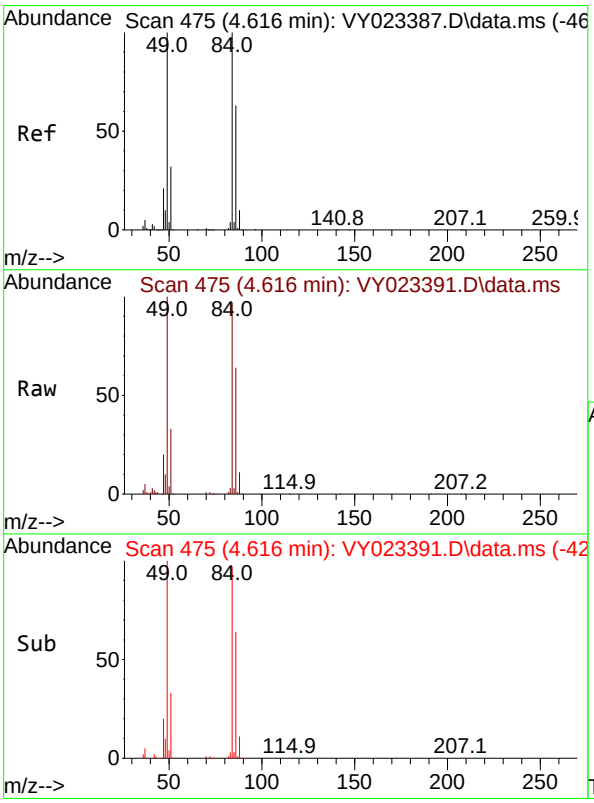
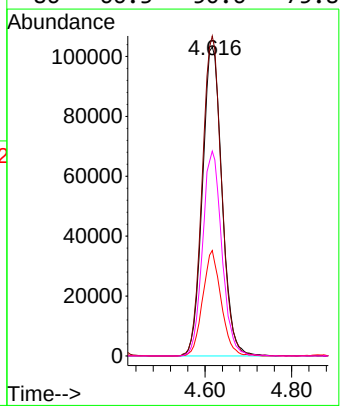
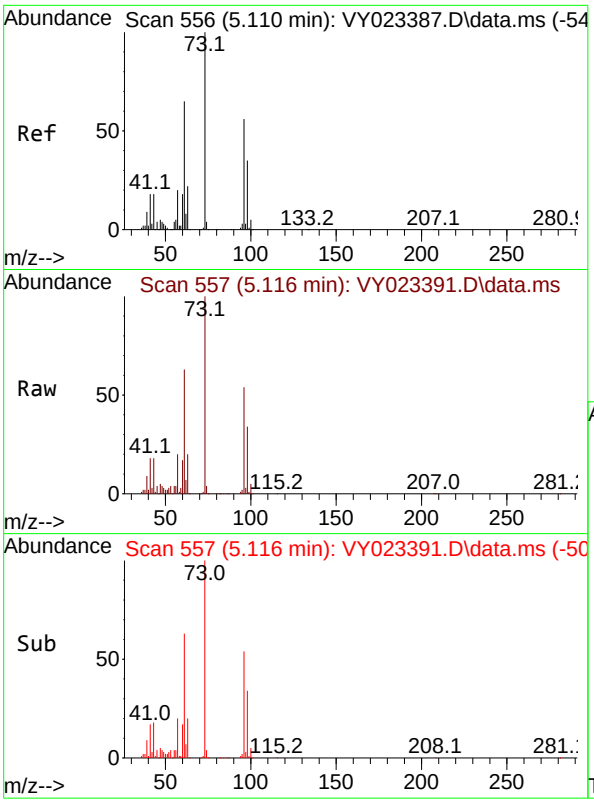



#20
Methylene Chloride
Concen: 52.503 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 84 Resp: 324604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 103.5 | 80.2 | 120.4 |
| 51 | 34.1 | 25.9 | 38.9 |
| 86 | 66.3 | 50.6 | 75.8 |

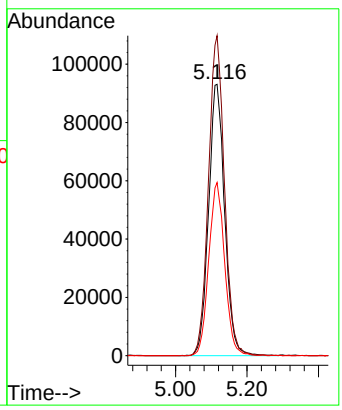





#21
trans-1,2-Dichloroethene
Concen: 51.482 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 96 Resp: 29038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 117.9 | 92.7 | 139.1 |
| 98 | 63.8 | 49.7 | 74.5 |




**Instrument :**
MSVOA_Y
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ICVVY100725

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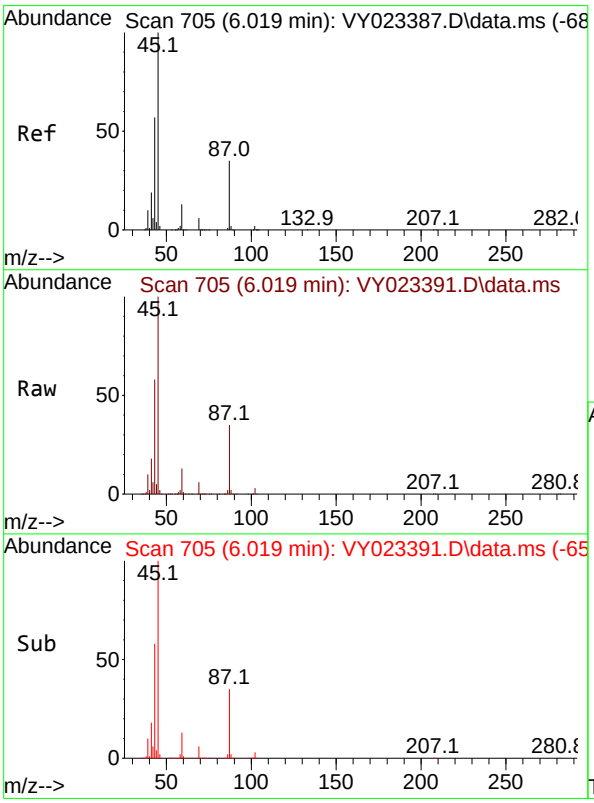
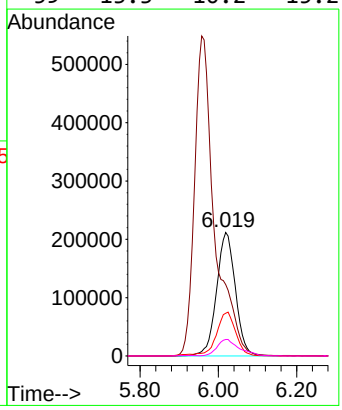
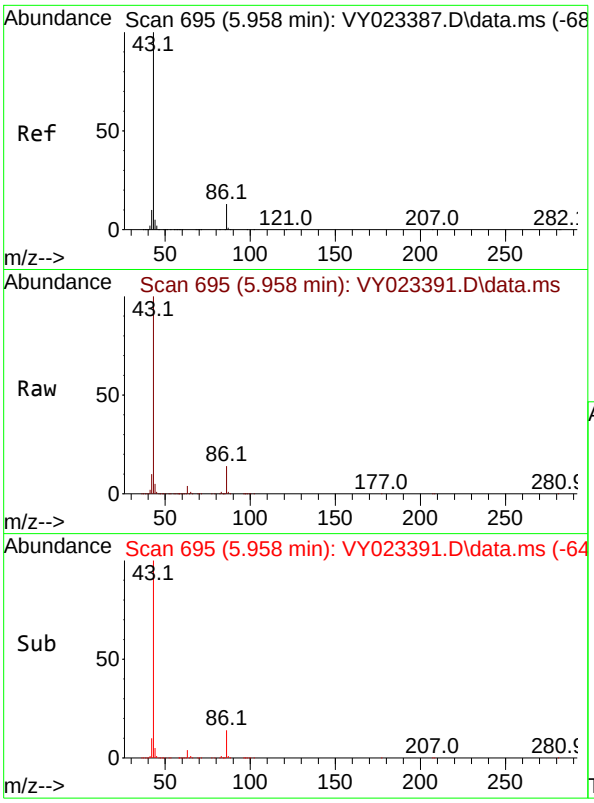



#22
Diisopropyl ether
Concen: 51.364 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 45 Resp: 709381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 57.4 | 45.6 | 68.4 |
| 87 | 34.6 | 28.1 | 42.1 |
| 59 | 13.3 | 10.2 | 15.2 |

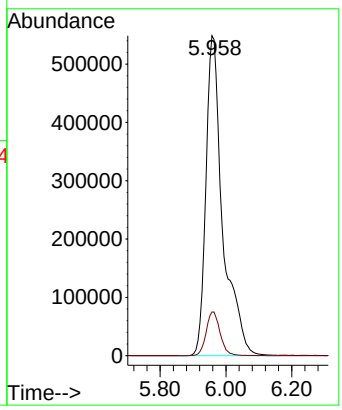





#23
Vinyl Acetate
Concen: 260.981 ug/l
RT: 5.958 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 195096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 13.7 | 10.6 | 15.8 |




**Instrument :**
MSVOA_Y
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ICVVY100725

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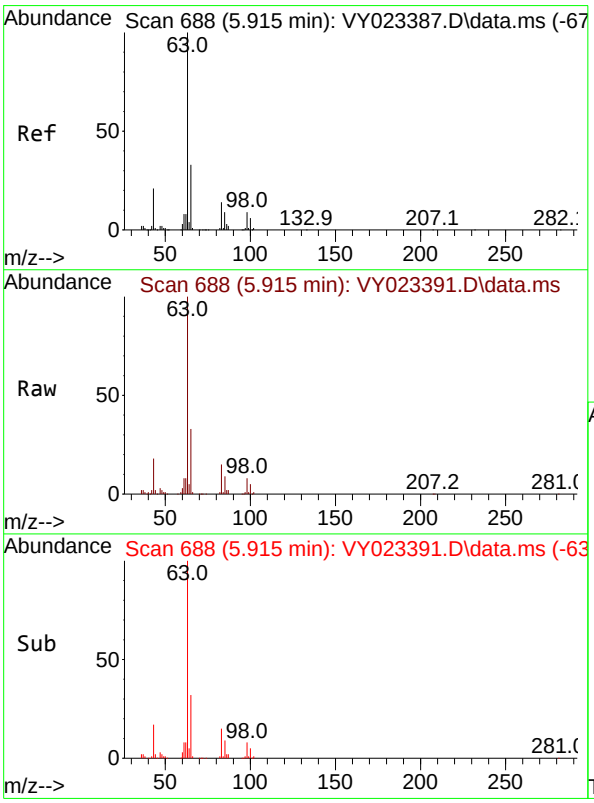
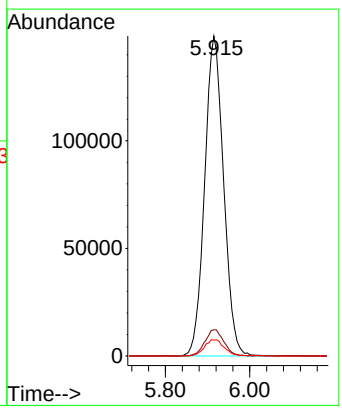
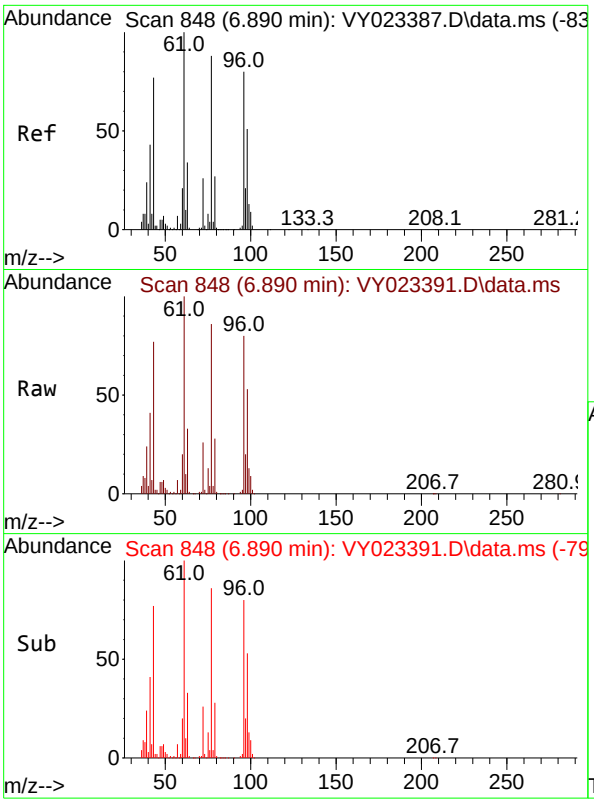



#24
1,1-Dichloroethane
Concen: 50.742 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 63 Resp: 464207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.1 | 4.3 | 13.1 |
| 100 | 5.0 | 2.8 | 8.4 |






#25
2-Butanone
Concen: 233.083 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 32535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 33.8 | 27.4 | 41.2 |

**Instrument :**
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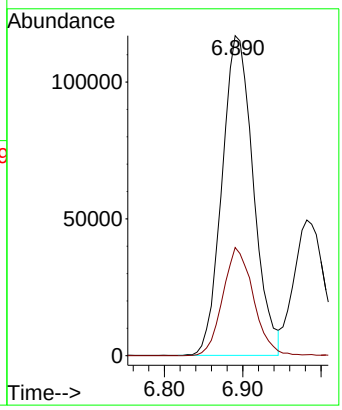
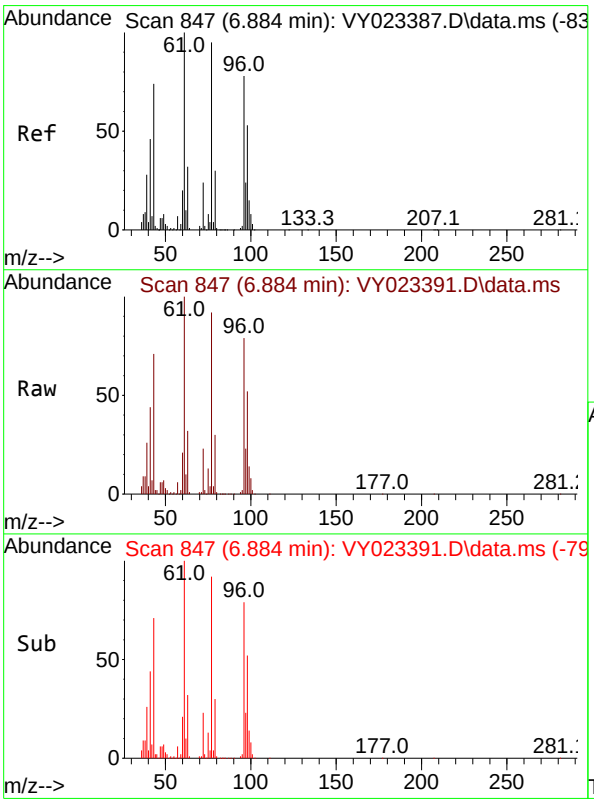
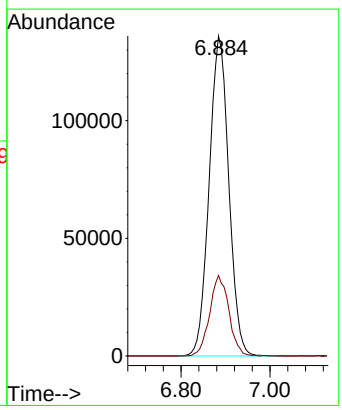


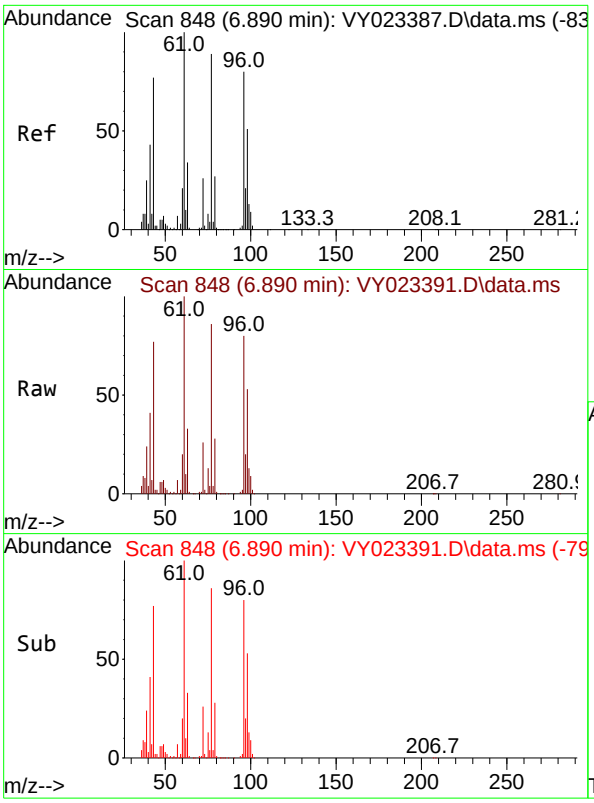




#26
2,2-Dichloropropane
Concen: 49.626 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 77 Resp: 416585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.6 | 12.1 | 36.3 |

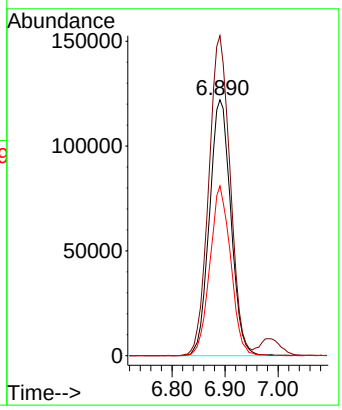





#27
cis-1,2-Dichloroethene
Concen: 52.485 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 96 Resp: 34196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 125.5 | 0.0 | 258.2 |
| 98 | 64.3 | 0.0 | 132.0 |

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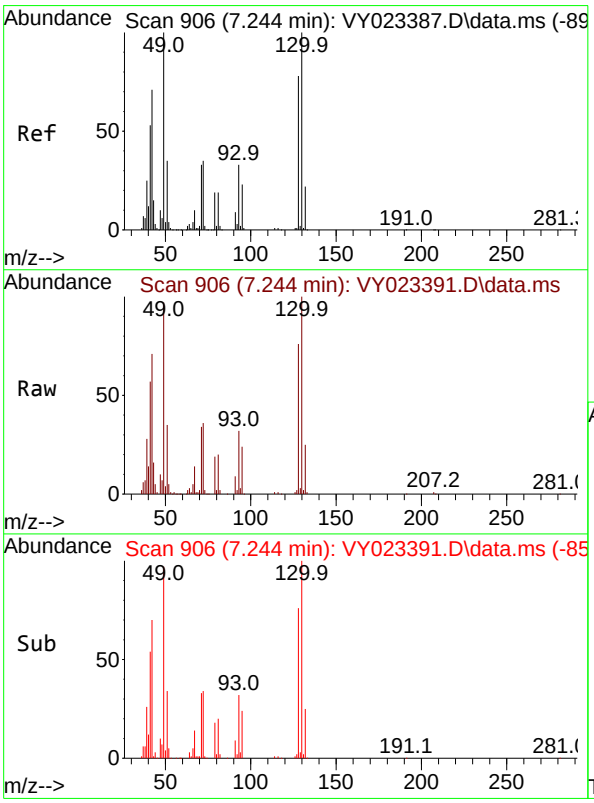
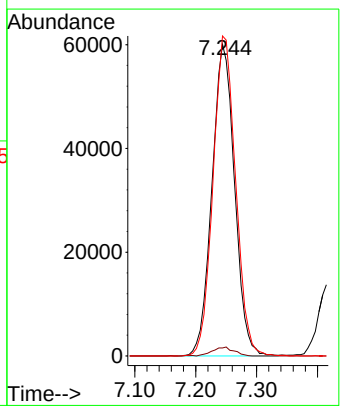
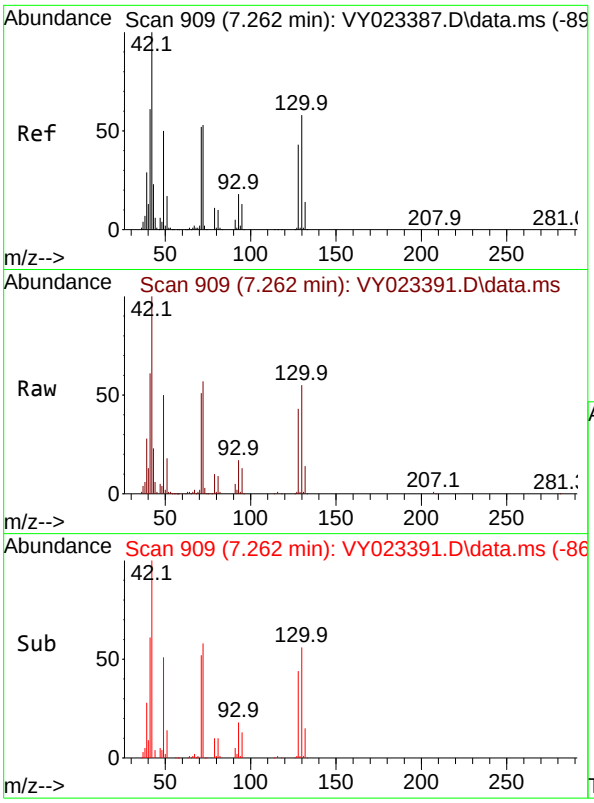



#28
Bromochloromethane
Concen: 45.427 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 49 Resp: 155146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.8 | 0.0 | 5.6 |
| 130 | 102.6 | 81.9 | 122.9 |

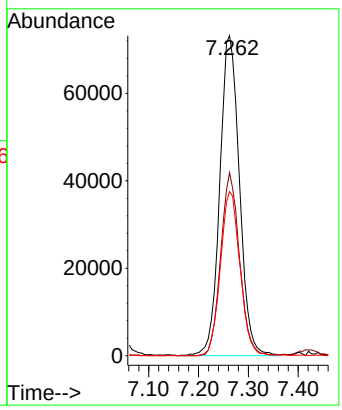





#29
Tetrahydrofuran
Concen: 253.317 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 42 Resp: 20051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 54.6 | 43.0 | 64.6 |
| 71 | 51.1 | 40.1 | 60.1 |

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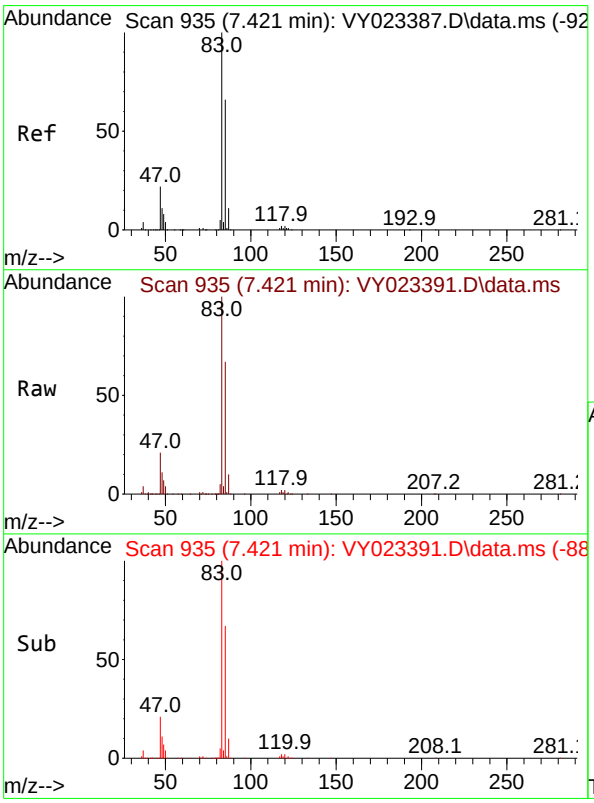
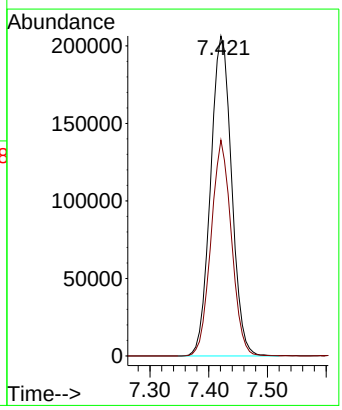
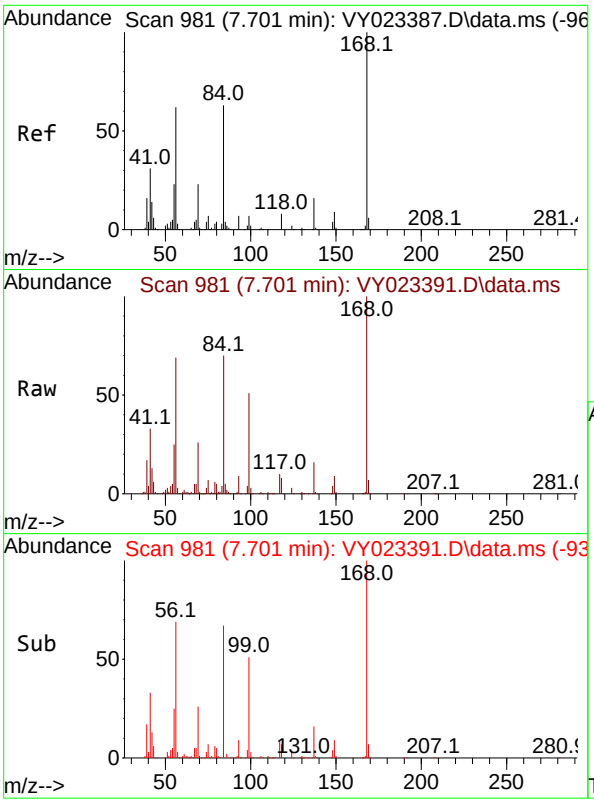



#30
Chloroform
Concen: 51.137 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 83 Resp: 513997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.5 | 52.5 | 78.7 |






#31
Cyclohexane
Concen: 47.416 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

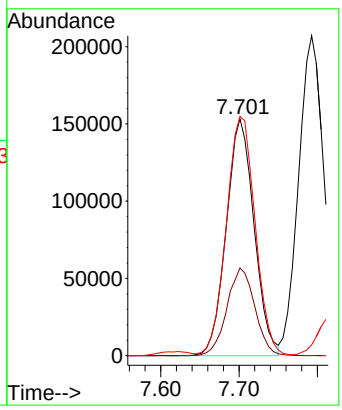
Tgt Ion: 56 Resp: 37881

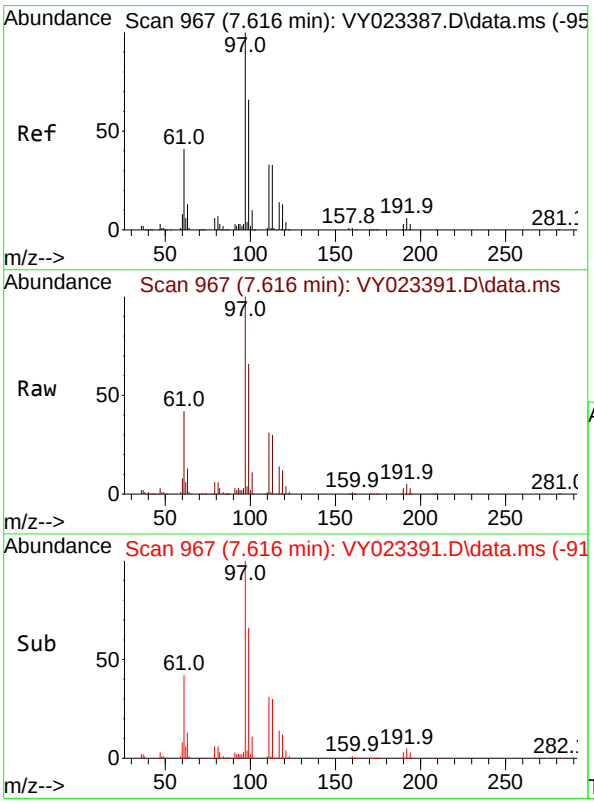
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 37.1 | 30.0 | 45.0 |
| 84 | 99.4 | 81.2 | 121.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

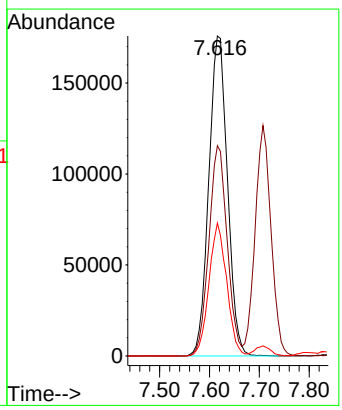


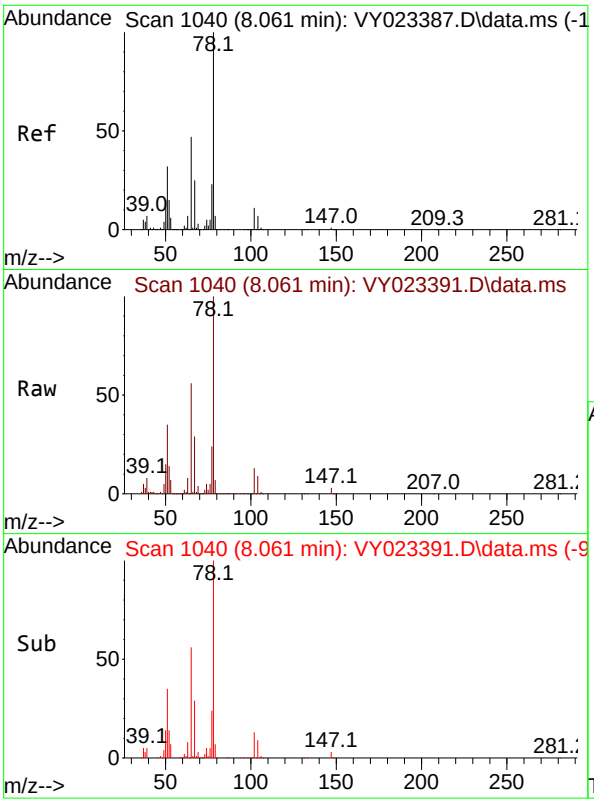




#32
1,1,1-Trichloroethane
Concen: 49.934 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 97 Resp: 456112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.7 | 51.4 | 77.2 |
| 61 | 39.8 | 31.9 | 47.9 |






#33
1,2-Dichloroethane-d4
Concen: 49.450 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

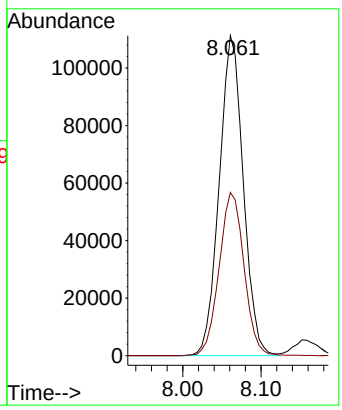
Tgt Ion: 65 Resp: 23749

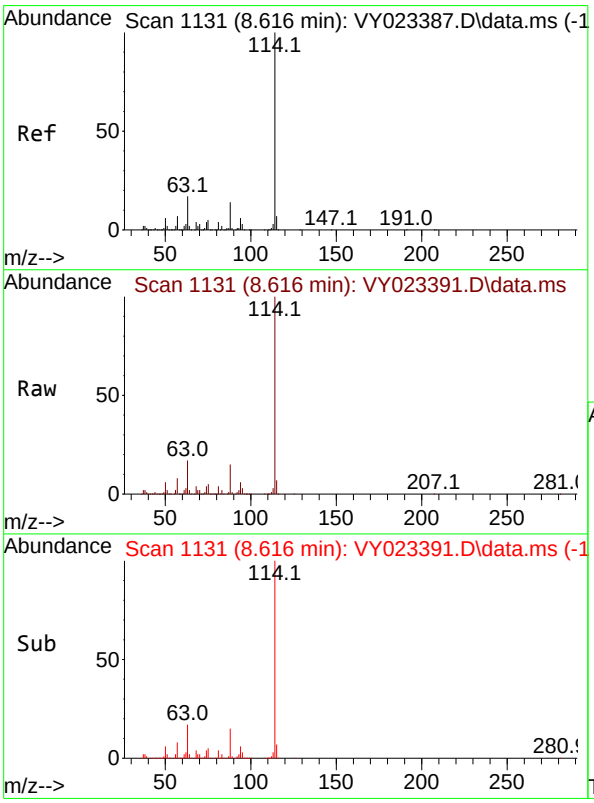
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.8 | 0.0 | 105.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

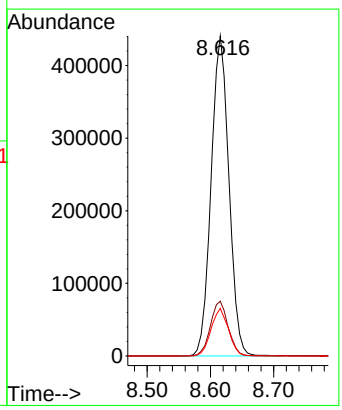


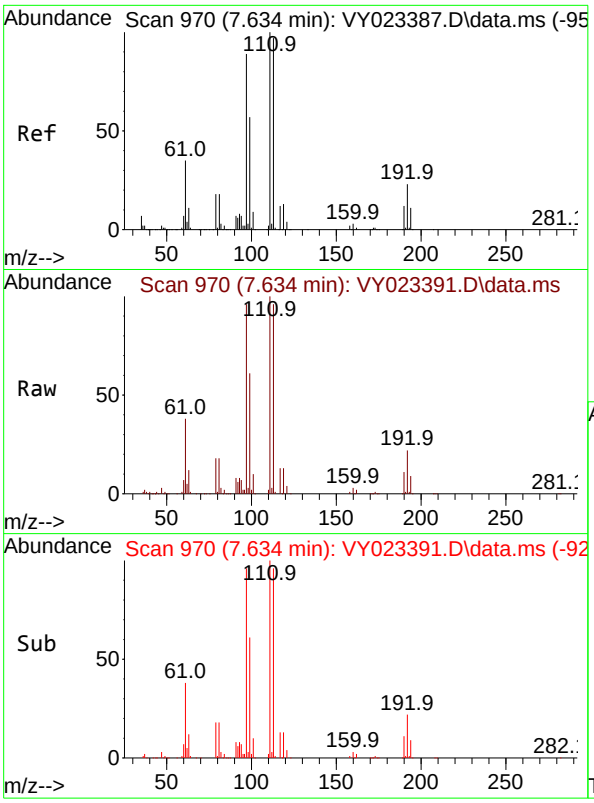




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:114 Resp: 861639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.1 | 0.0 | 34.2 |
| 88 | 14.9 | 0.0 | 28.4 |






#35
Dibromofluoromethane
Concen: 49.116 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:113 Resp: 26003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.5 | 81.8 | 122.6 |
| 192 | 22.5 | 18.0 | 27.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
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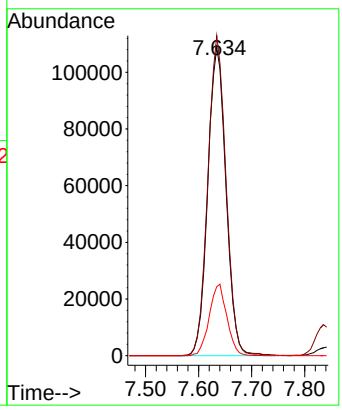
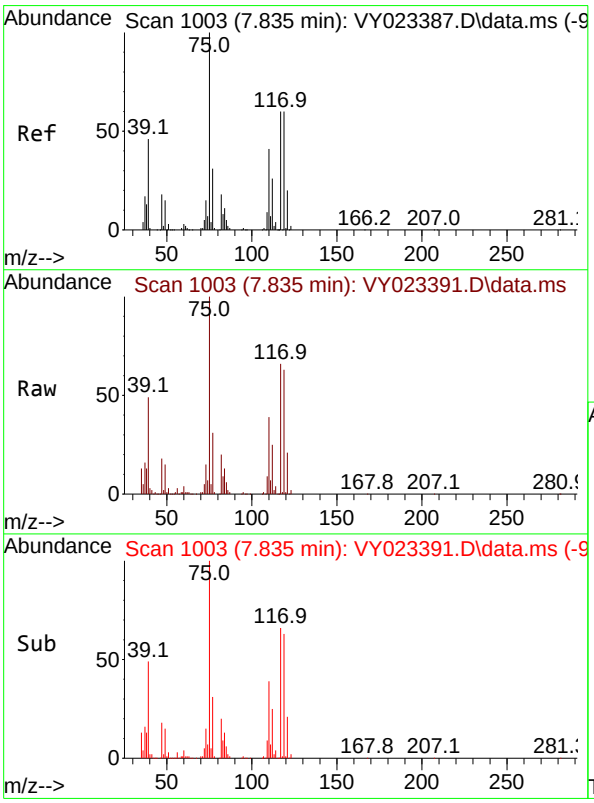
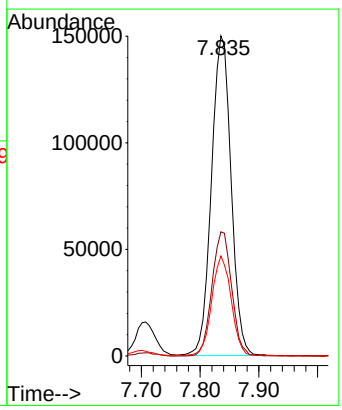


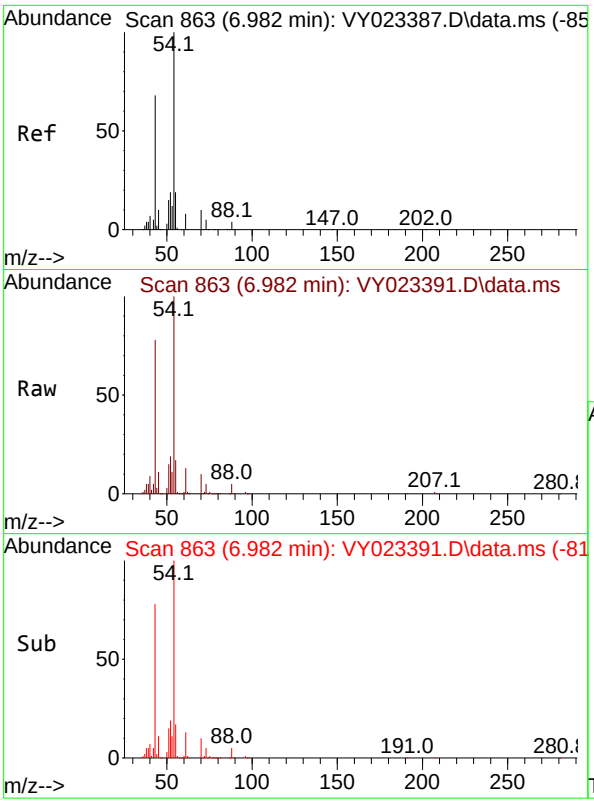




#36
1,1-Dichloropropene
Concen: 49.761 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 75 Resp: 348786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 38.9 | 19.9 | 59.7 |
| 77 | 31.0 | 25.0 | 37.6 |






#37
Ethyl Acetate
Concen: 49.740 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 13811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.8 | 11.8 | 17.8 |
| 70 | 12.7 | 10.5 | 15.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
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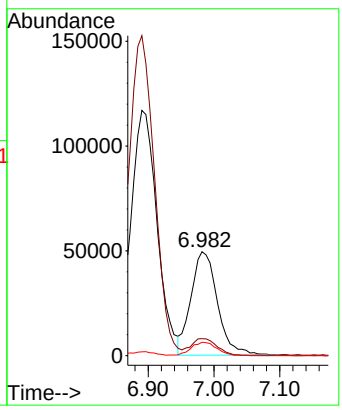
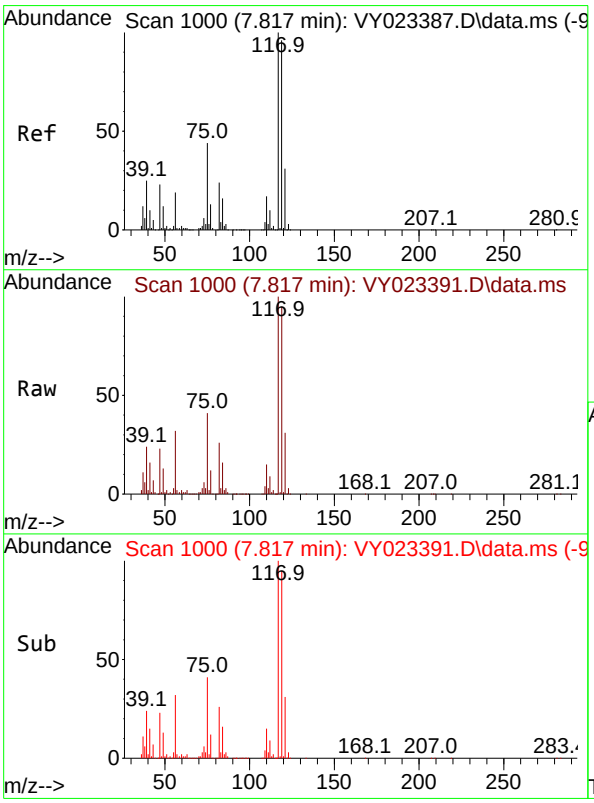
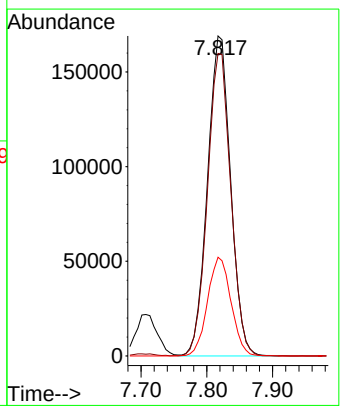


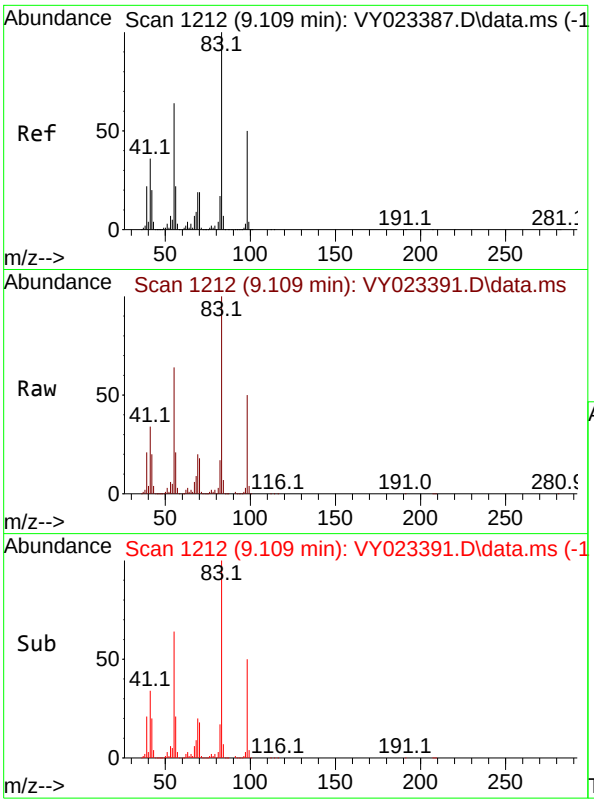




#38
Carbon Tetrachloride
Concen: 48.671 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:117 Resp: 413653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.5 | 76.8 | 115.2 |
| 121 | 30.8 | 24.5 | 36.7 |

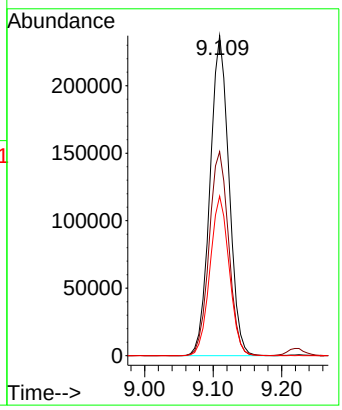





#39
Methylcyclohexane
Concen: 49.970 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 83 Resp: 45603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 63.8 | 51.4 | 77.2 |
| 98 | 49.9 | 40.4 | 60.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
**APPROVED**

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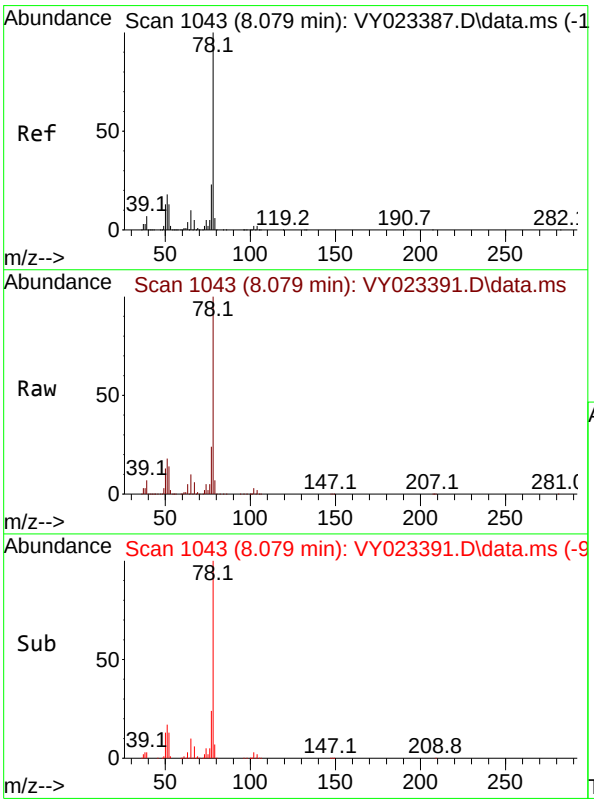
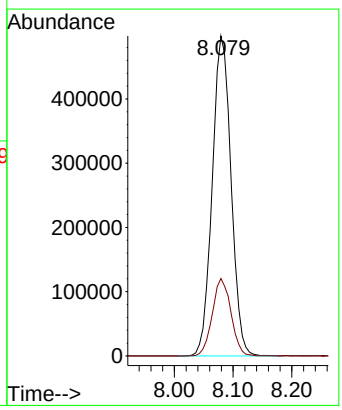
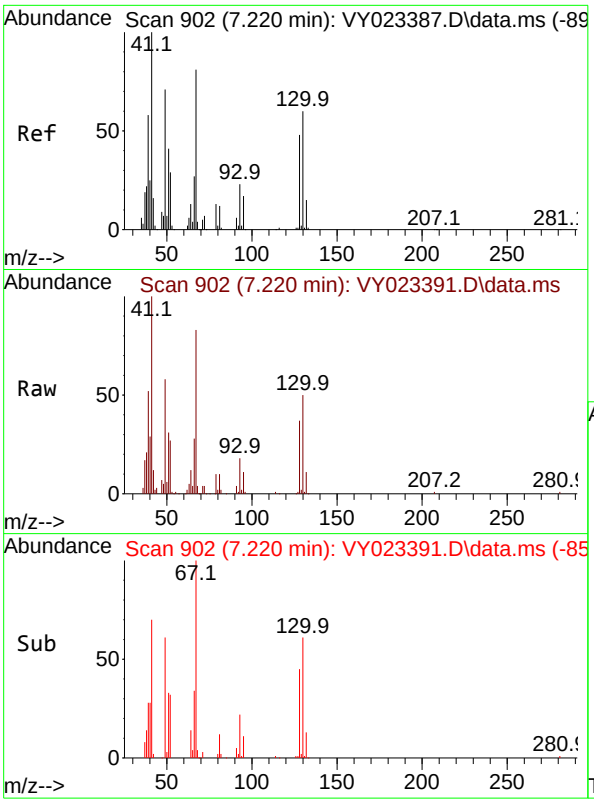



#40
Benzene
Concen: 49.906 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 78 Resp: 1107790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.2 | 18.3 | 27.5 |

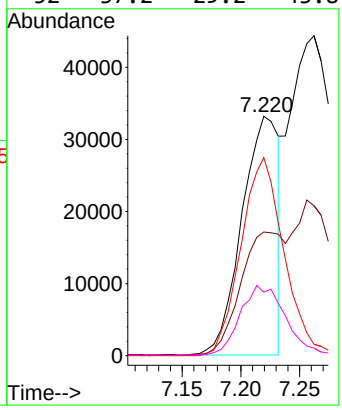





#41
Methacrylonitrile
Concen: 48.008 ug/l
RT: 7.220 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 41 Resp: 7210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 62.2 | 52.2 | 78.4 |
| 67 | 97.9 | 74.9 | 112.3 |
| 52 | 37.2 | 29.2 | 43.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
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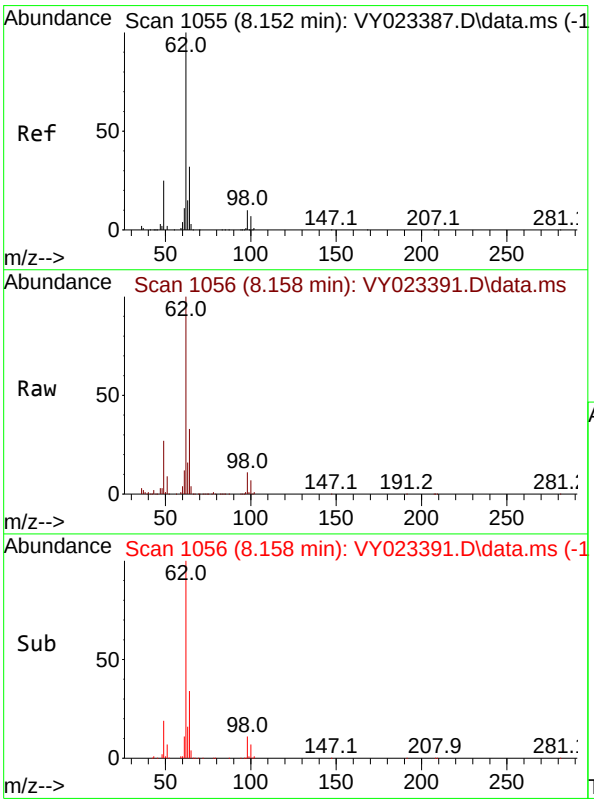
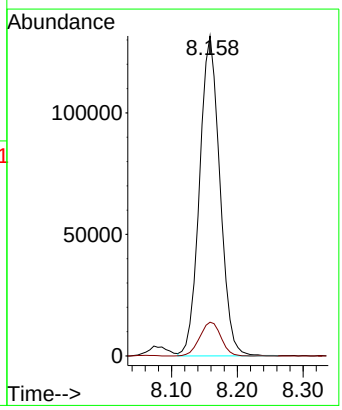
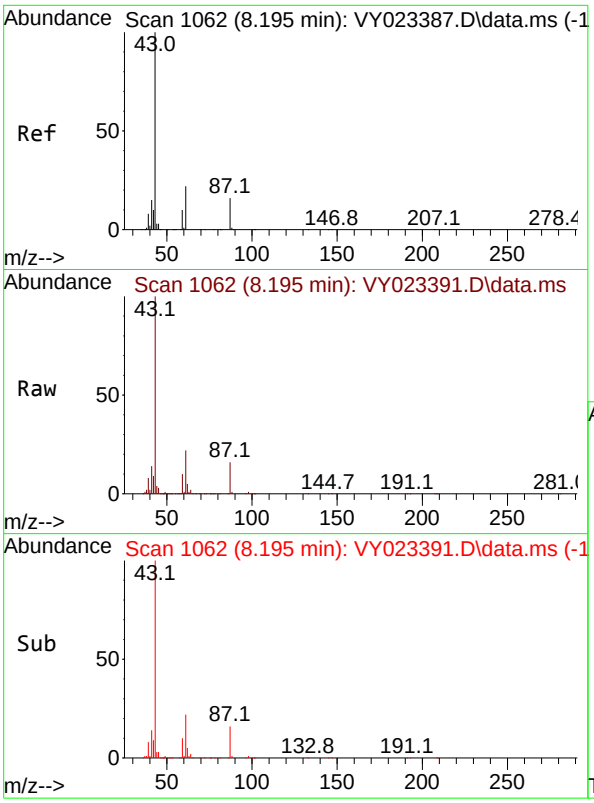



#42
1,2-Dichloroethane
Concen: 49.318 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 62 Resp: 282332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 11.1 | 0.0 | 21.6 |

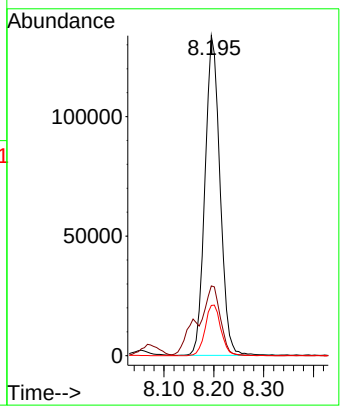





#43
Isopropyl Acetate
Concen: 50.548 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 27988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.8 | 18.1 | 27.1 |
| 87 | 16.7 | 13.5 | 20.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
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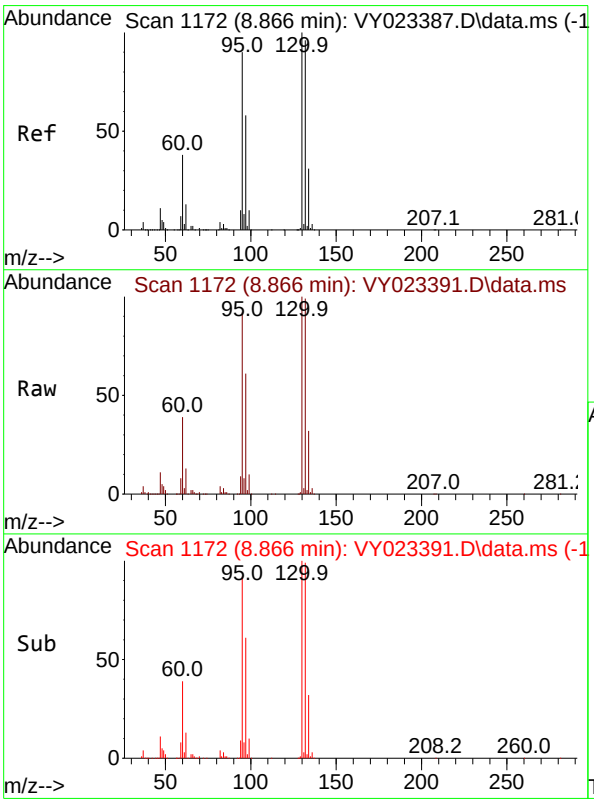
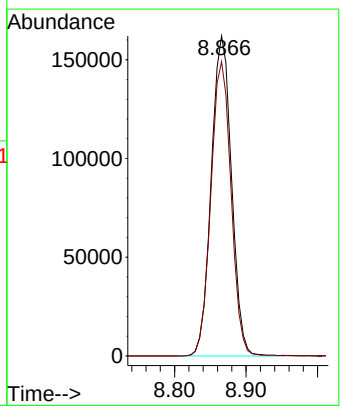
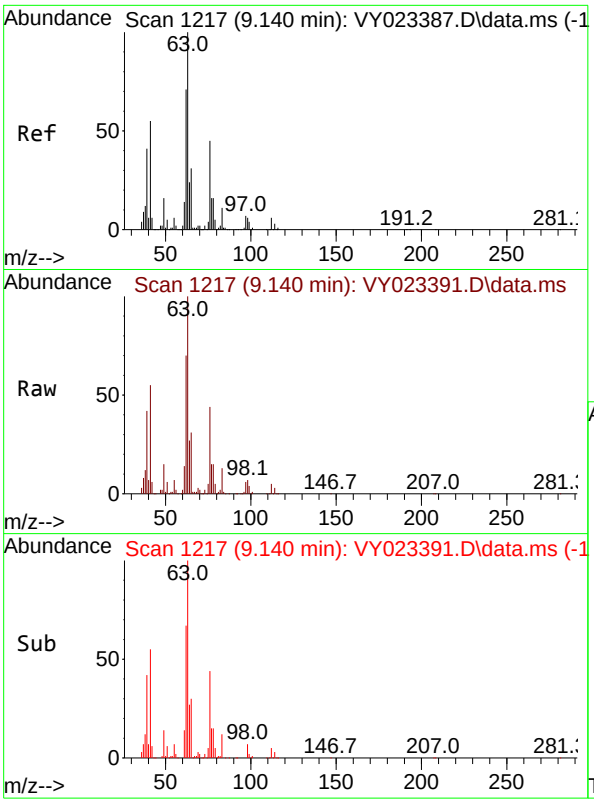



#44
Trichloroethene
Concen: 49.120 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:130 Resp: 319131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 91.9 | 0.0 | 180.6 |






#45
1,2-Dichloropropane
Concen: 50.355 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 63 Resp: 24688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.0 | 24.9 | 37.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
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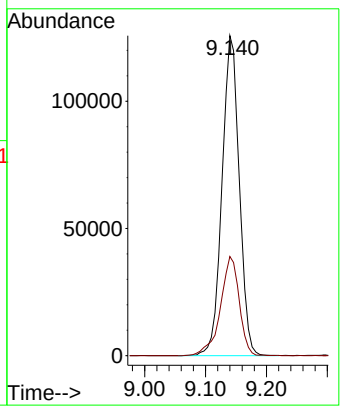
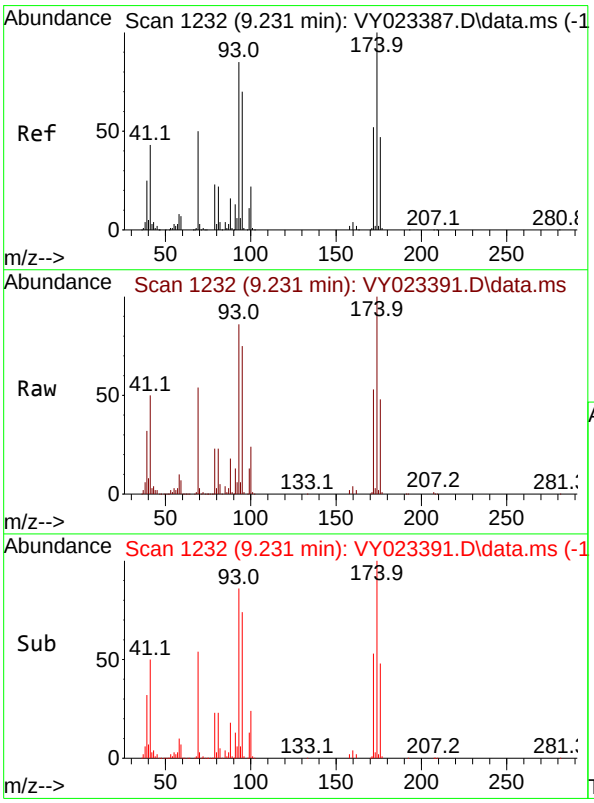
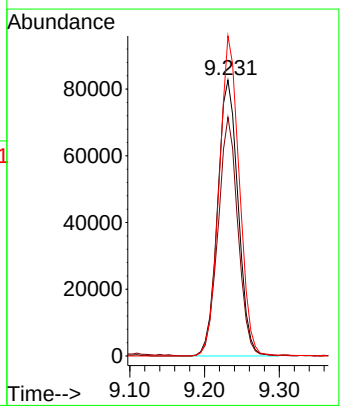


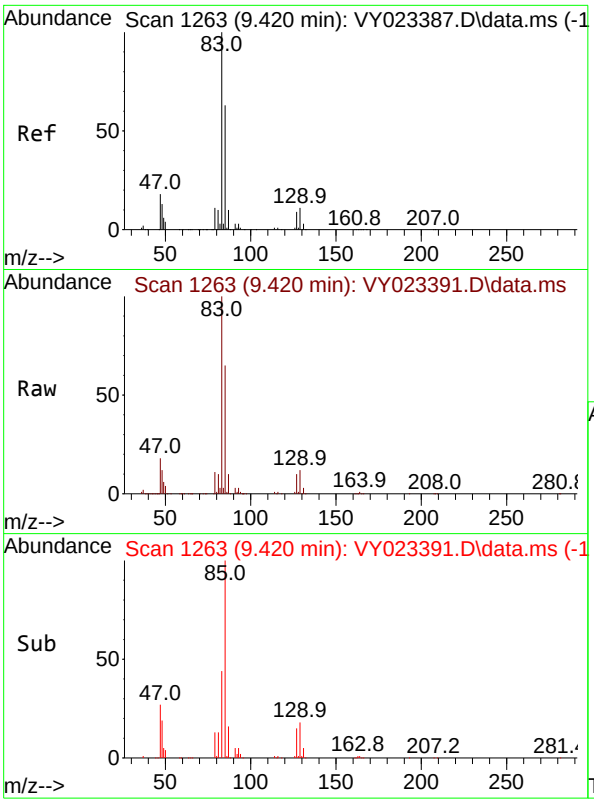




#46
Dibromomethane
Concen: 50.885 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 93 Resp: 157758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.6 | 65.4 | 98.0 |
| 174 | 113.9 | 92.9 | 139.3 |

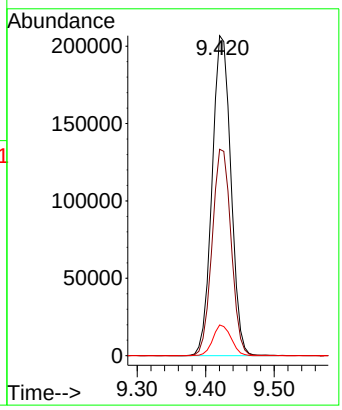





#47
Bromodichloromethane
Concen: 50.450 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 83 Resp: 39391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 50.8 | 76.2 |
| 127 | 9.6 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
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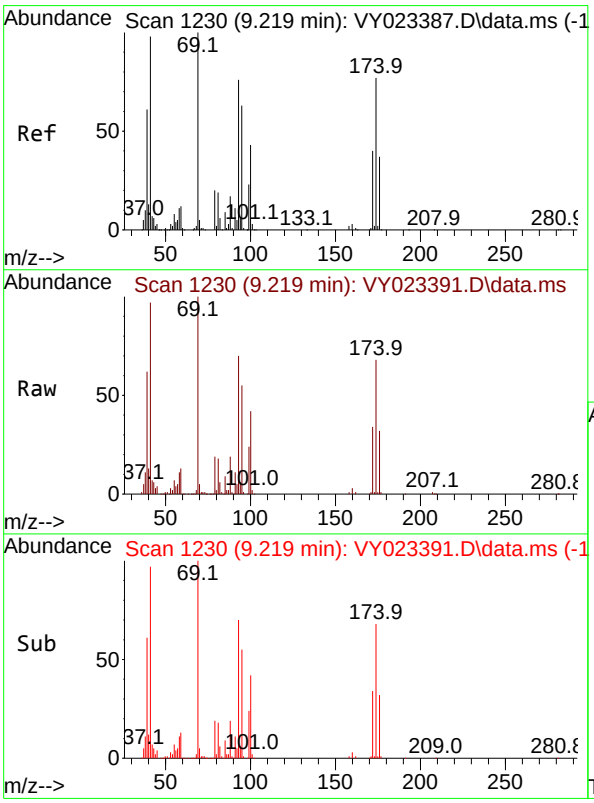
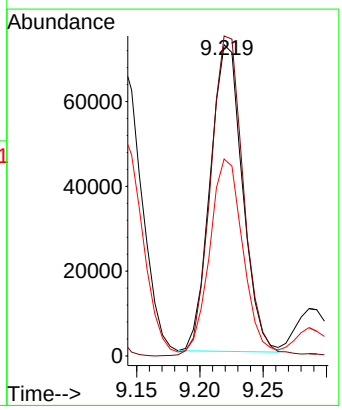
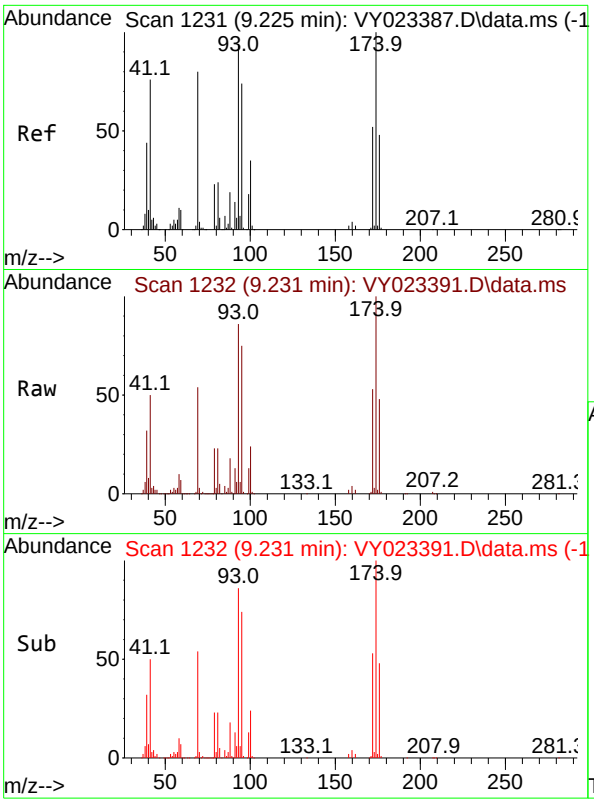



#48
Methyl methacrylate
Concen: 49.440 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 41 Resp: 128606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 106.6 | 81.0 | 121.4 |
| 39 | 63.5 | 48.2 | 72.4 |

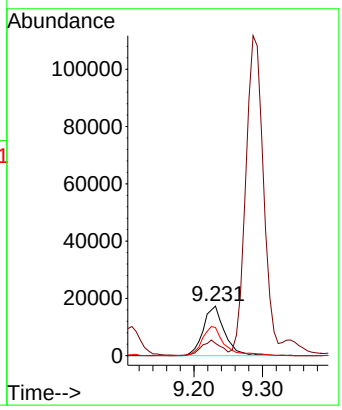





#49
1,4-Dioxane
Concen: 1039.252 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 88 Resp: 3735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 27.4 | 21.8 | 32.8 |
| 58 | 61.4 | 46.8 | 70.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
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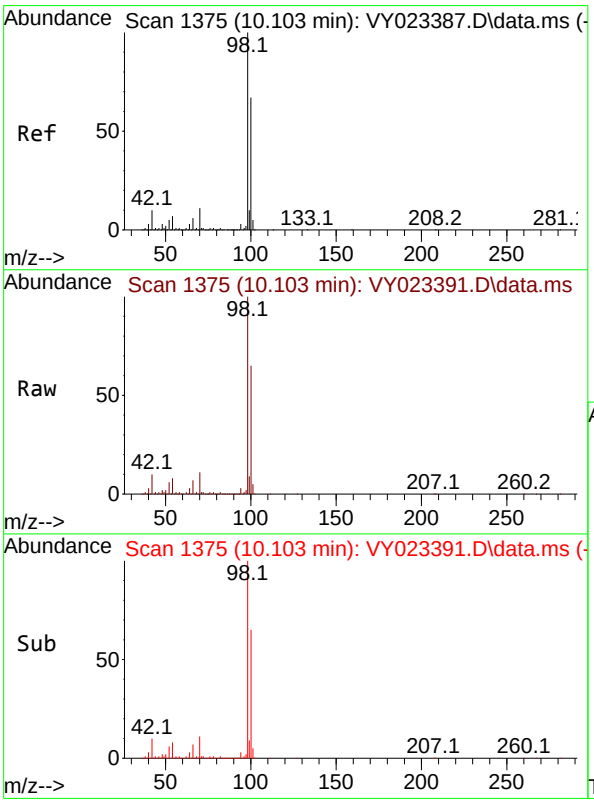
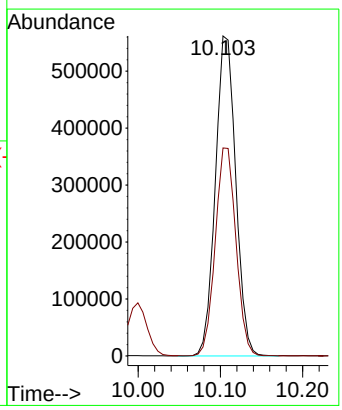
Supervised By :Mahesh Dadoda 10/10/2025

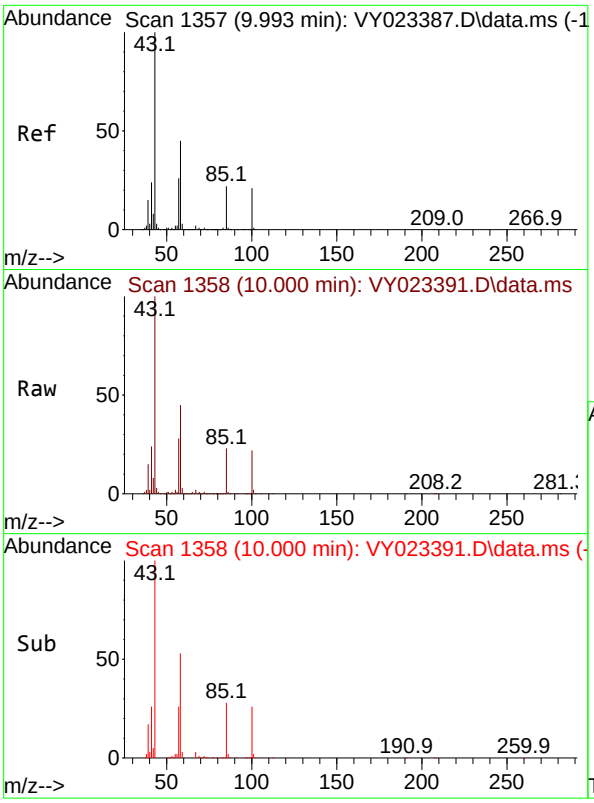



#50
Toluene-d8
Concen: 49.228 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 98 Resp: 970614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.1 | 53.0 | 79.4 |

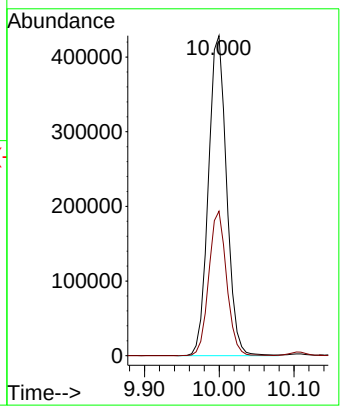





#51
4-Methyl-2-Pentanone
Concen: 253.421 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 72499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 44.4 | 35.3 | 52.9 |




**Instrument :**
MSVOA_Y
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ICVVY100725

**Manual Integrations**
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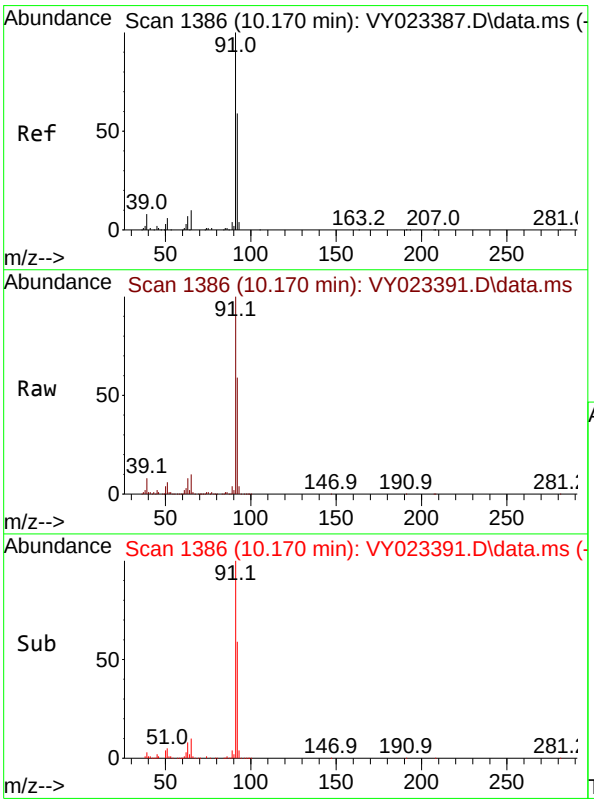
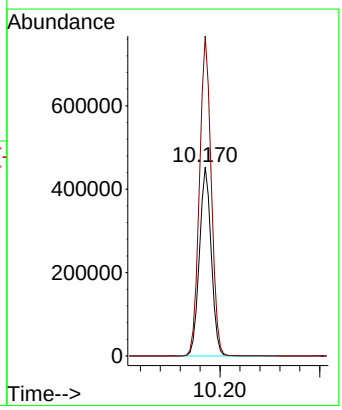
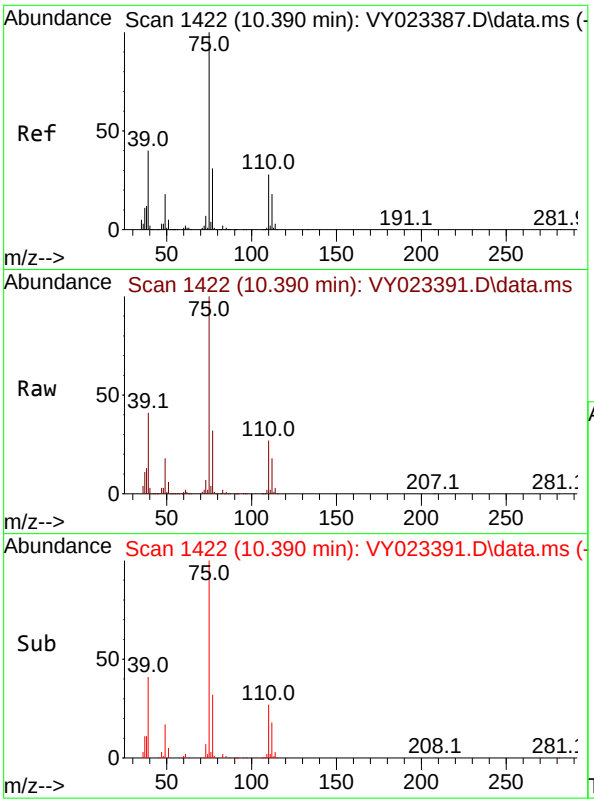



#52
Toluene
Concen: 51.556 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 92 Resp: 743055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 168.9 | 136.4 | 204.6 |






#53
t-1,3-Dichloropropene
Concen: 51.160 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 75 Resp: 34733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.1 | 37.7 |

**Instrument :**
MSVOA_Y
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ICVVY100725

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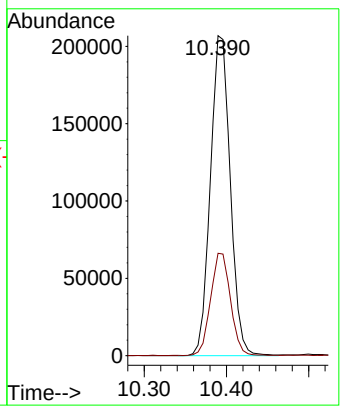
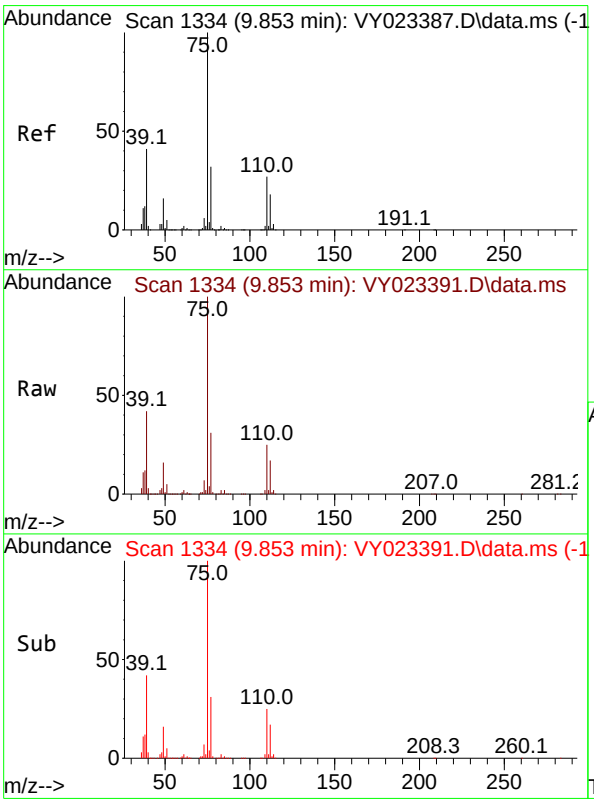
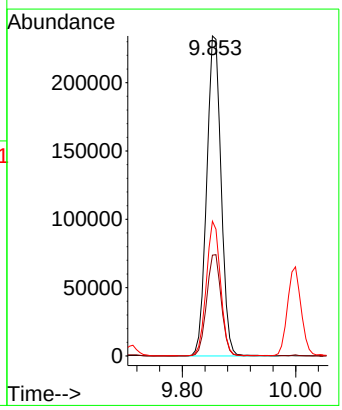


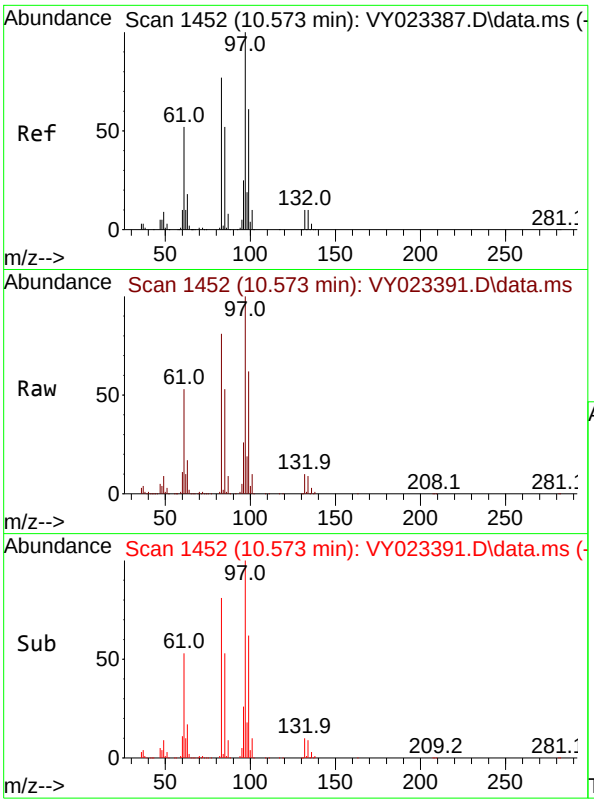




#54
cis-1,3-Dichloropropene
Concen: 51.649 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 75 Resp: 413860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.5 | 25.4 | 38.0 |
| 39 | 42.1 | 32.8 | 49.2 |

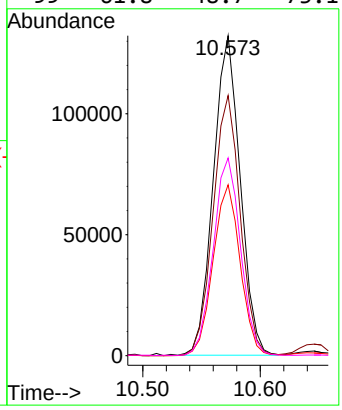





#55
1,1,2-Trichloroethane
Concen: 50.430 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 97 Resp: 21024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 81.4 | 61.8 | 92.6 |
| 85 | 53.5 | 41.3 | 61.9 |
| 99 | 61.8 | 48.7 | 73.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
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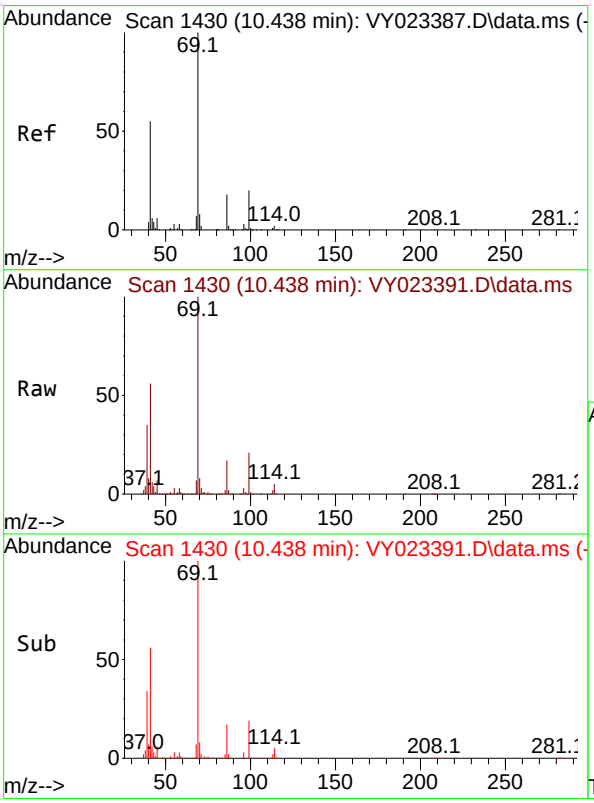
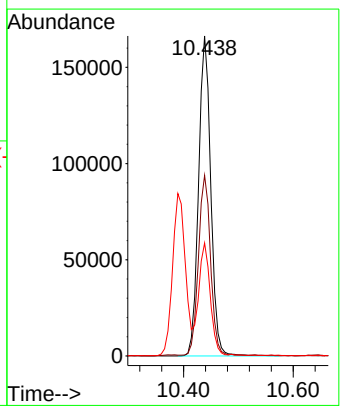
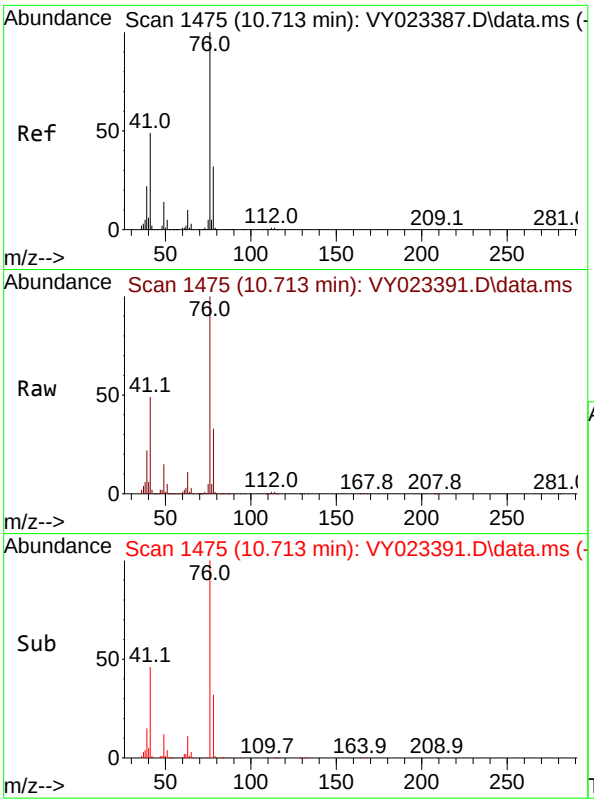



#56
Ethyl methacrylate
Concen: 53.385 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 69 Resp: 256731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 56.1 | 44.6 | 67.0 |
| 39 | 34.2 | 27.0 | 40.4 |

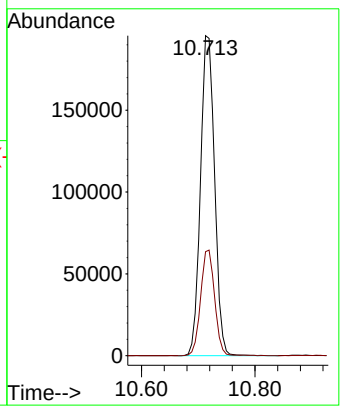





#57
1,3-Dichloropropane
Concen: 51.113 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 76 Resp: 33767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.8 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
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ICVVY100725

**Manual Integrations**
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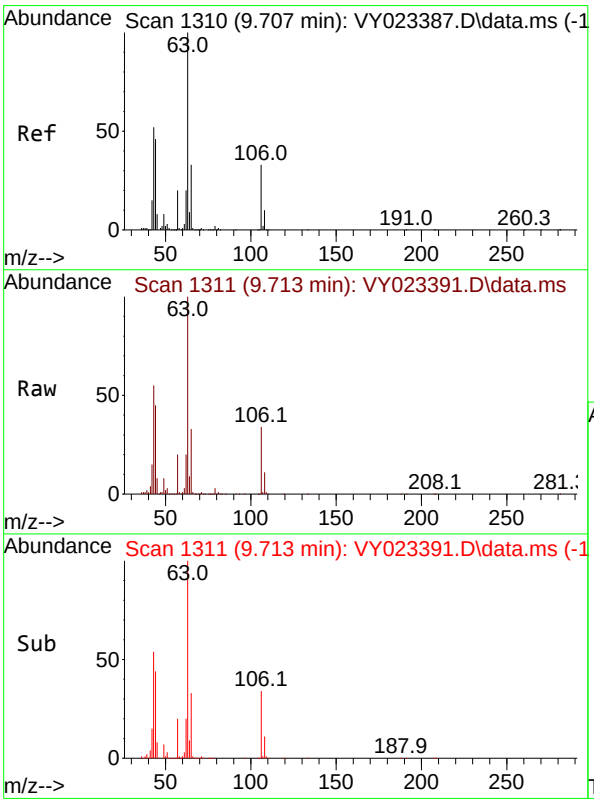
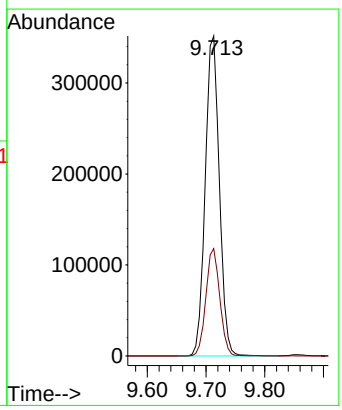
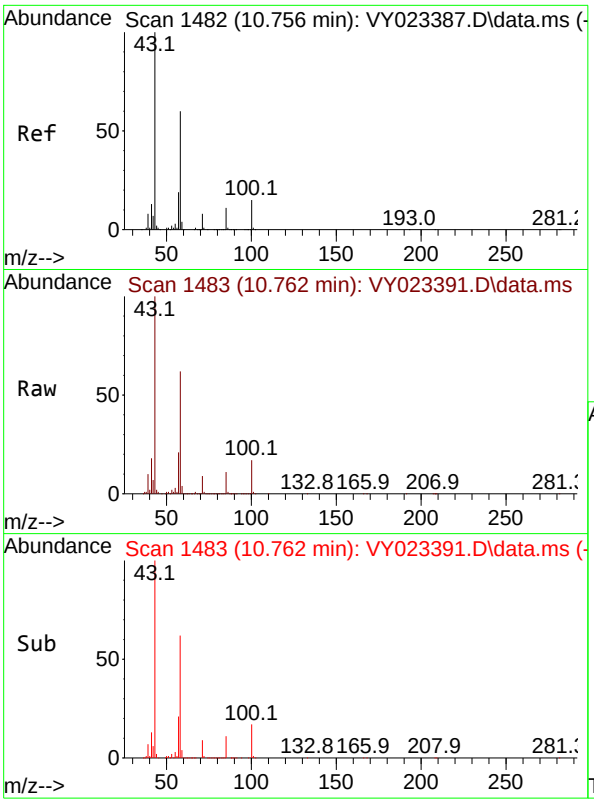



#58
2-Chloroethyl Vinyl ether
Concen: 272.133 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 63 Resp: 586266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 33.2 | 26.6 | 39.8 |

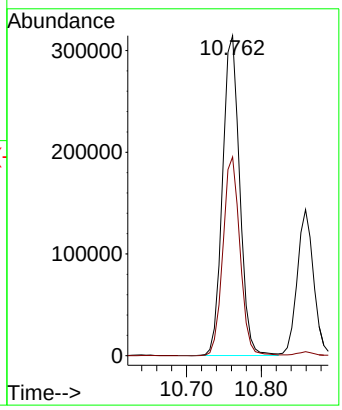





#59
2-Hexanone
Concen: 245.480 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 50187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 61.7 | 30.5 | 91.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
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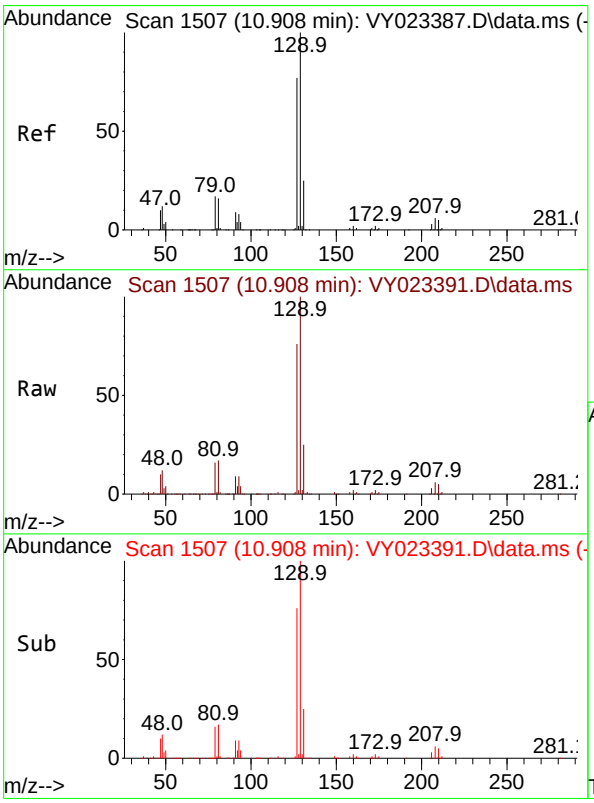
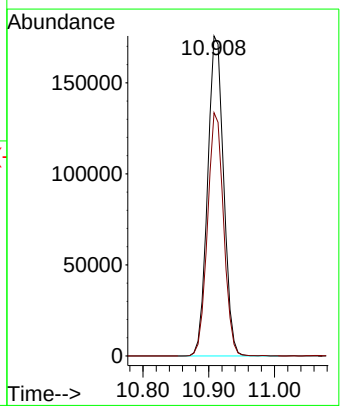
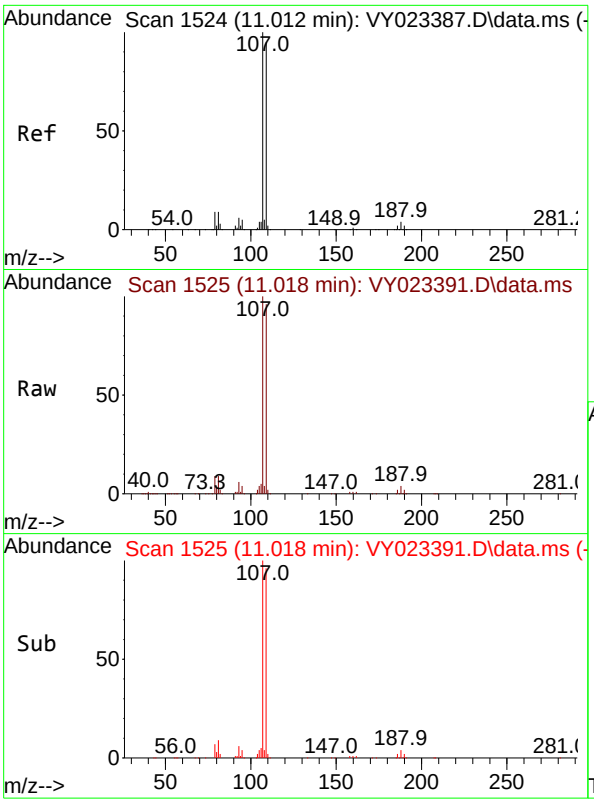



#60
Dibromochloromethane
Concen: 50.974 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:129 Resp: 297946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.2 | 38.6 | 115.7 |






#61
1,2-Dibromoethane
Concen: 50.658 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:107 Resp: 20141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.4 | 76.1 | 114.1 |

**Instrument :**
MSVOA_Y
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ICVVY100725

**Manual Integrations**
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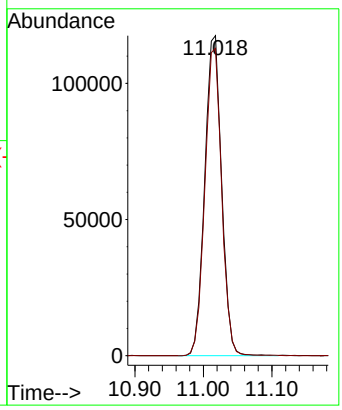
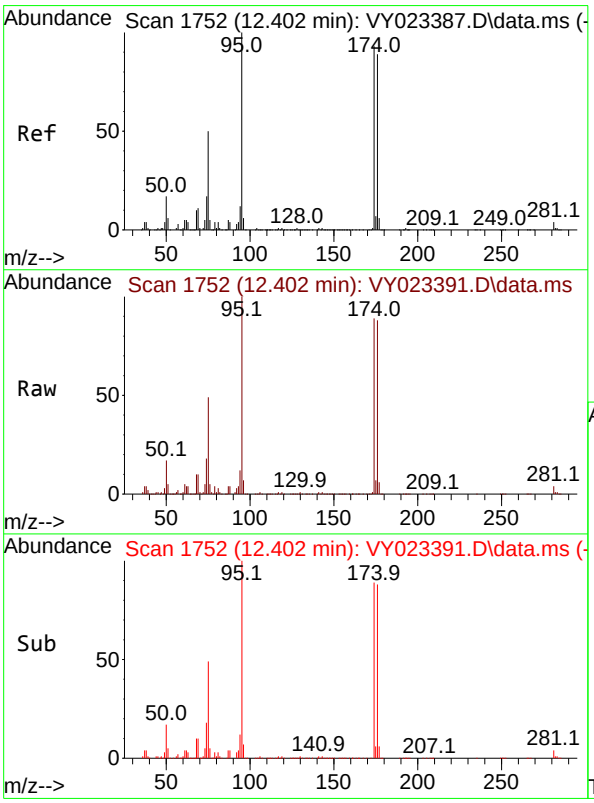
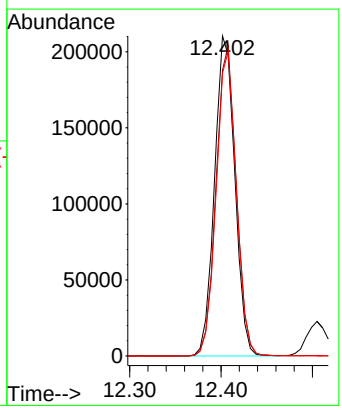


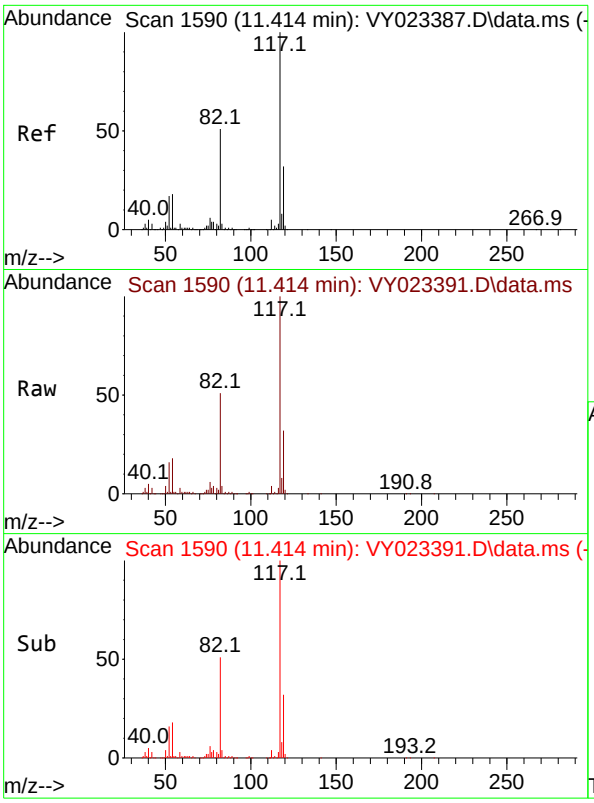




#62
4-Bromofluorobenzene
Concen: 49.881 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 95 Resp: 324700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 96.3 | 0.0 | 192.8 |
| 176 | 93.9 | 0.0 | 187.6 |

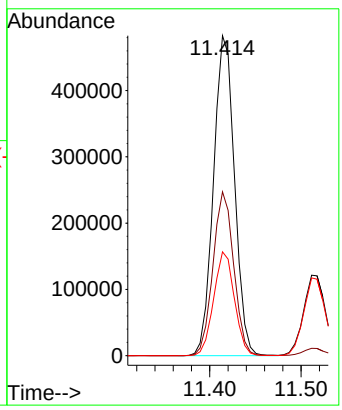





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:117 Resp: 77137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 51.2 | 41.0 | 61.4 |
| 119 | 32.5 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
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ICVVY100725

**Manual Integrations**
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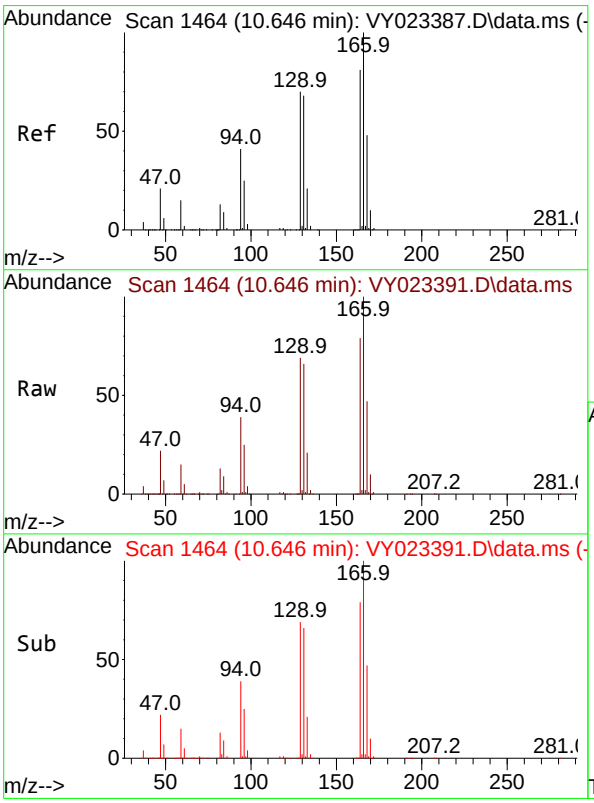
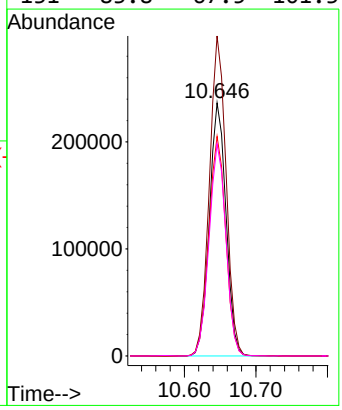
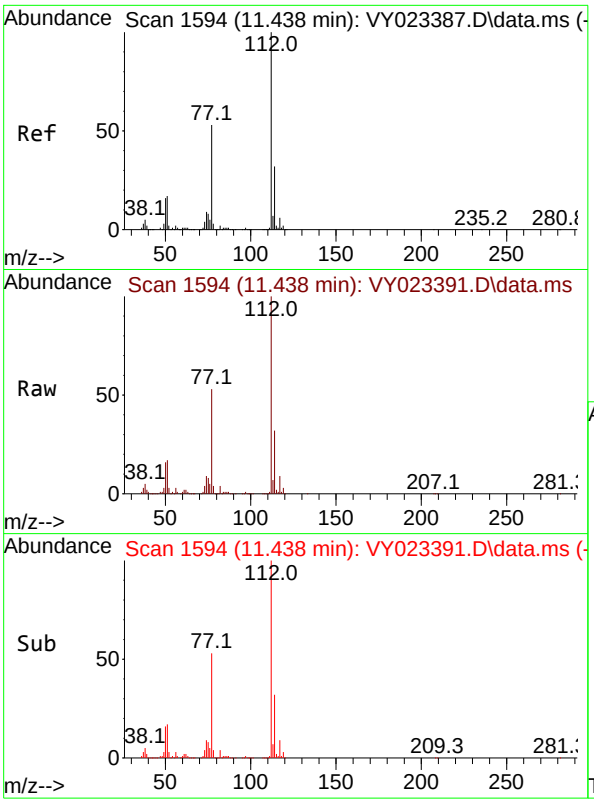



#64
Tetrachloroethene
Concen: 48.087 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:164 Resp: 382998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.4 | 99.4 | 149.0 |
| 129 | 86.7 | 69.4 | 104.2 |
| 131 | 83.8 | 67.5 | 101.3 |

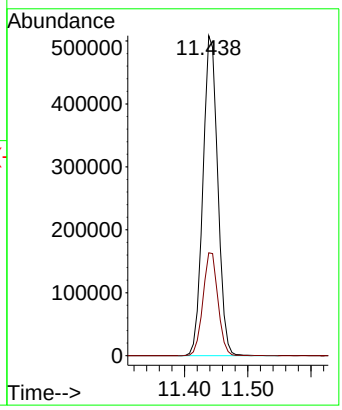





#65
Chlorobenzene
Concen: 49.381 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:112 Resp: 82846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 25.6 | 38.4 |

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MSVOA_Y
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ICVVY100725

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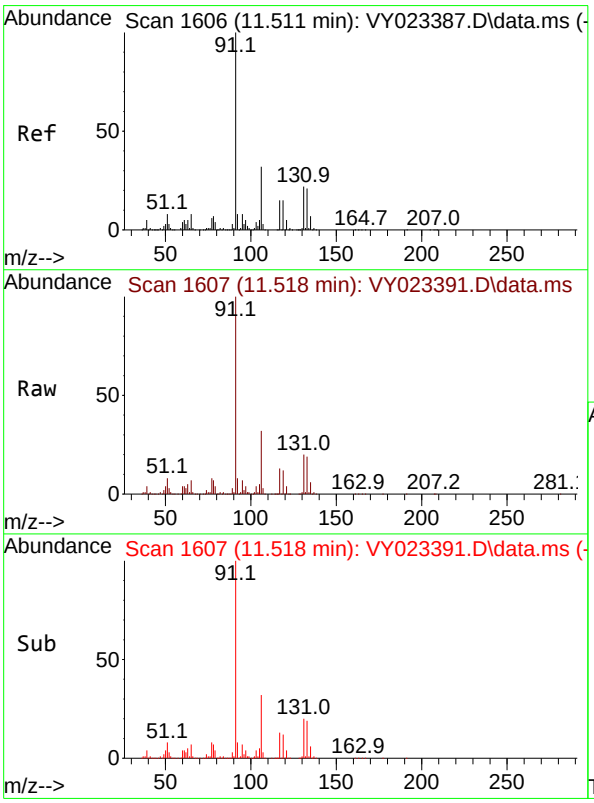
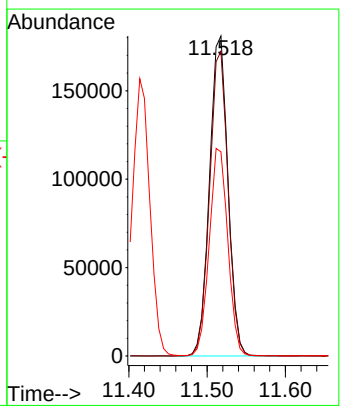
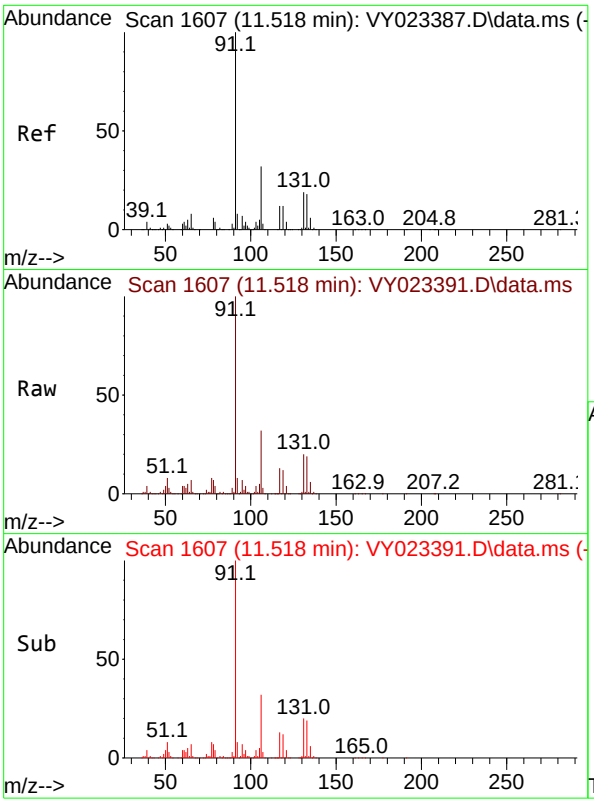



#66
1,1,1,2-Tetrachloroethane
Concen: 49.537 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:131 Resp: 296157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.1 | 48.4 | 145.2 |
| 119 | 65.2 | 32.4 | 97.2 |






#67
Ethyl Benzene
Concen: 50.841 ug/l
RT: 11.518 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

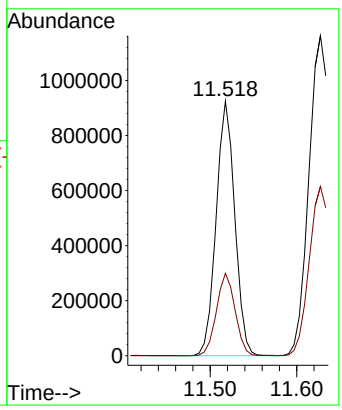
Tgt Ion: 91 Resp: 138069

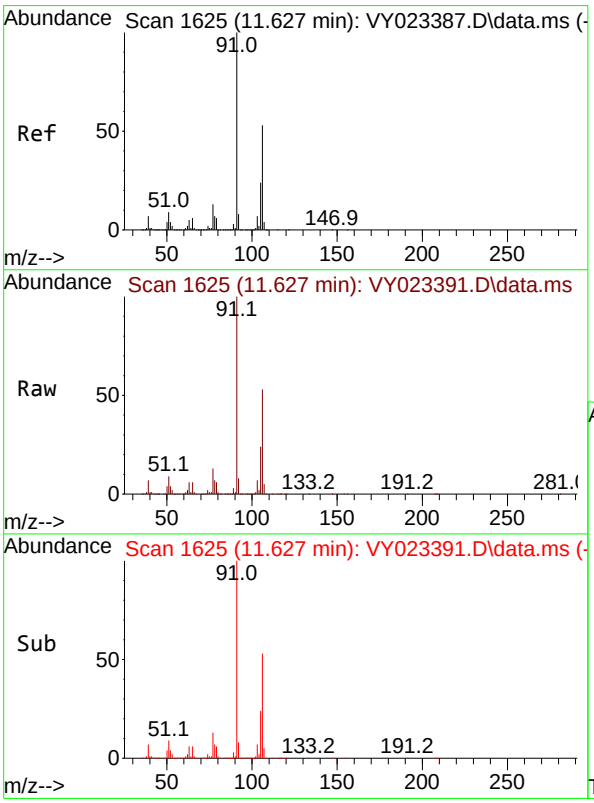
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.4 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

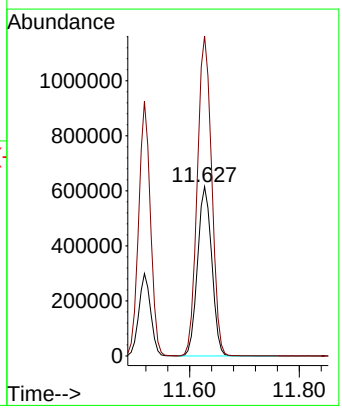


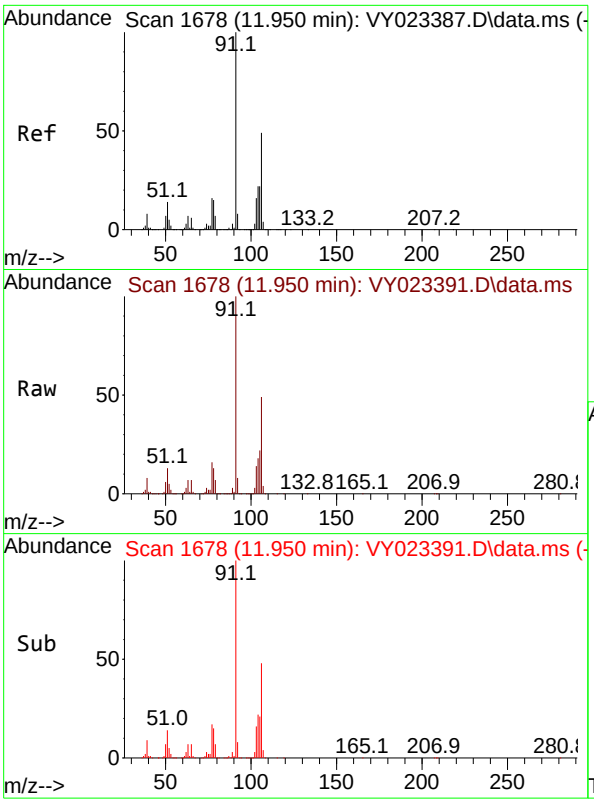




#68
m/p-Xylenes
Concen: 101.757 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:106 Resp: 1108386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 190.7 | 152.6 | 229.0 |

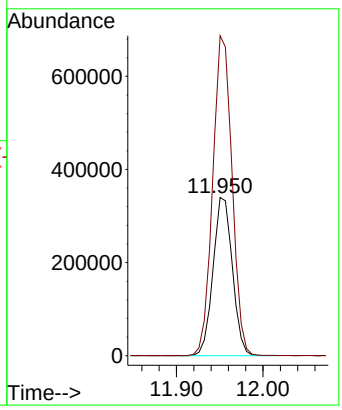





#69
o-Xylene
Concen: 51.577 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:106 Resp: 52695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.1 | 101.4 | 304.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 10/10/2025
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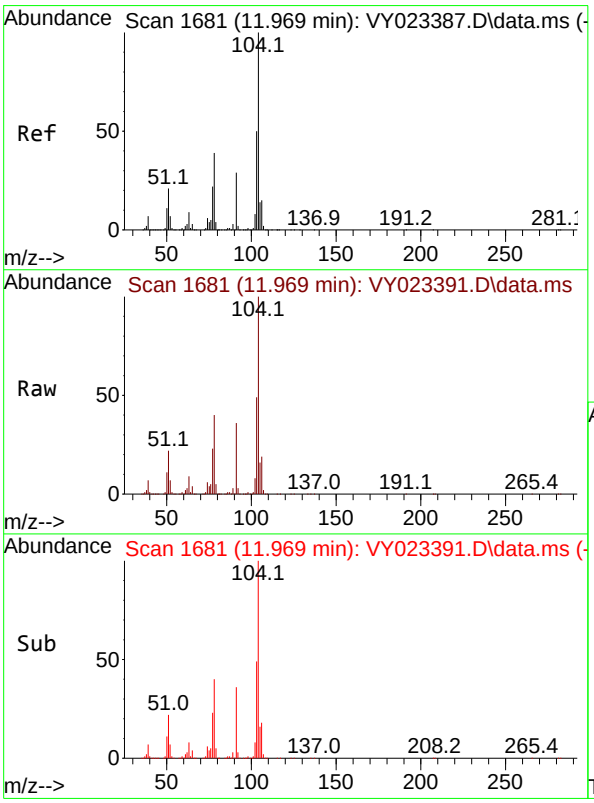
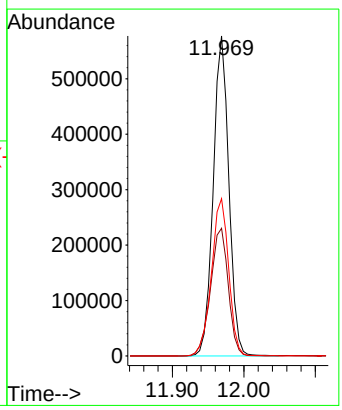
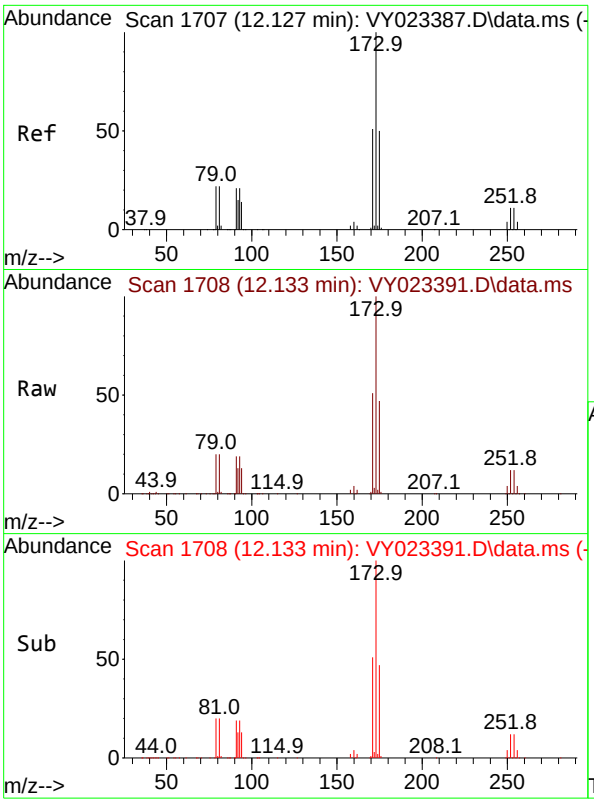



#70
Styrene
Concen: 52.122 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:104 Resp: 875709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 45.3 | 36.1 | 54.1 |
| 103 | 54.2 | 43.2 | 64.8 |

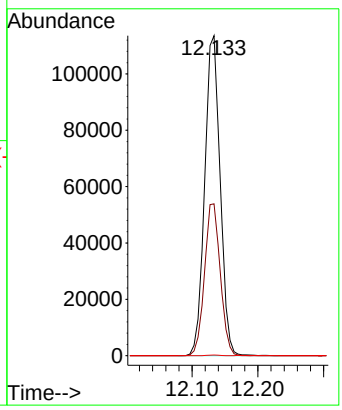





#71
Bromoform
Concen: 50.070 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:173 Resp: 18568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.4 | 24.8 | 74.3 |
| 254 | 0.2 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
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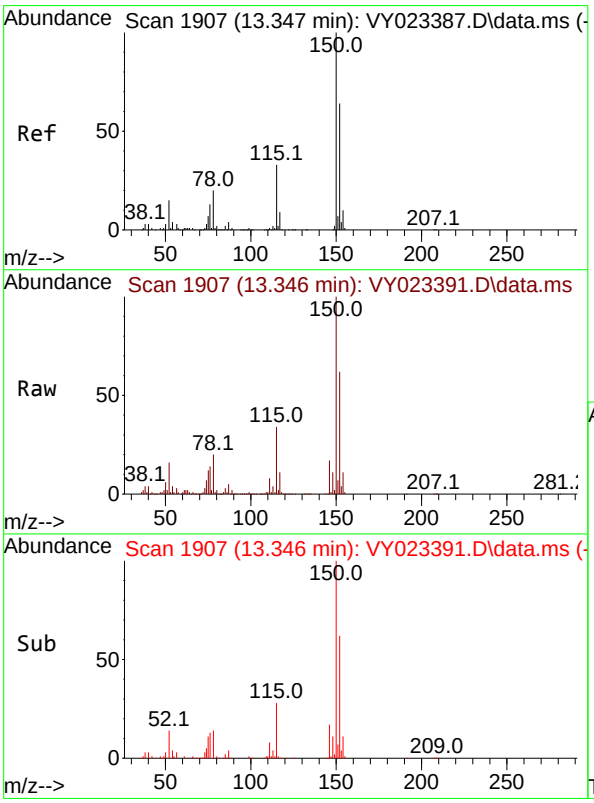
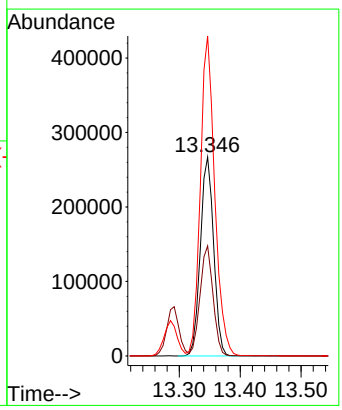
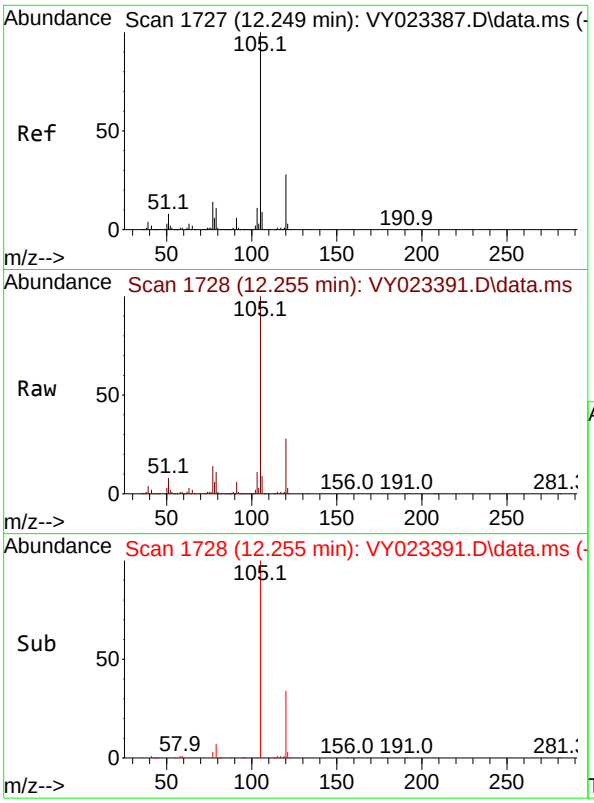



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:152 Resp: 405636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 54.1 | 27.1 | 81.2 |
| 150 | 173.7 | 0.0 | 347.4 |

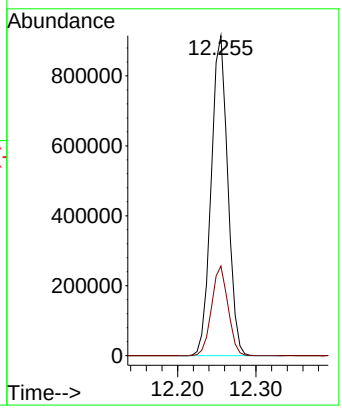





#73
Isopropylbenzene
Concen: 50.318 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:105 Resp: 134510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.7 | 13.9 | 41.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
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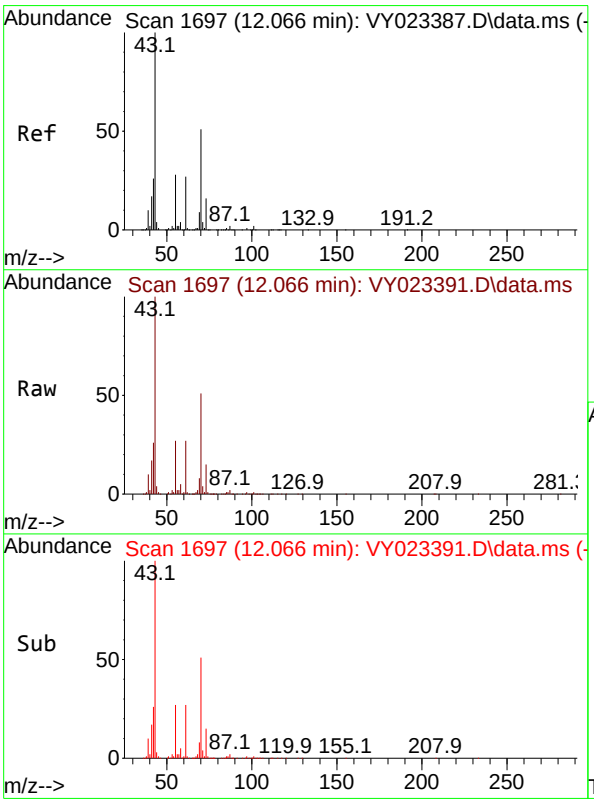
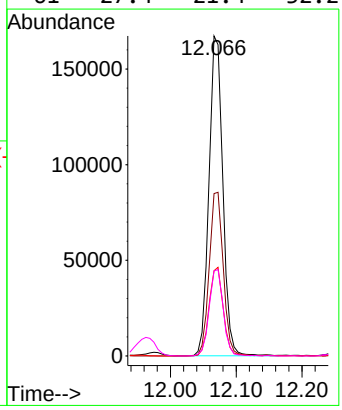
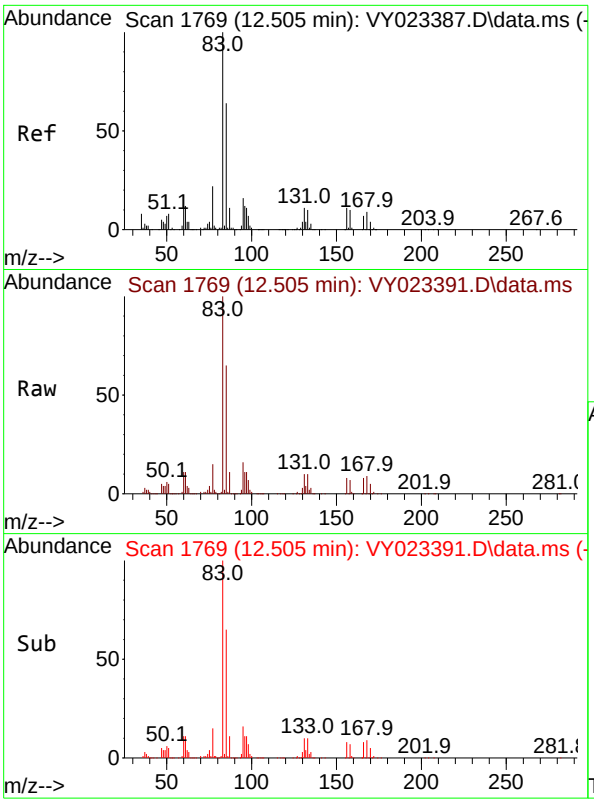



#74
N-amyl acetate
Concen: 51.087 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 245291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 51.8 | 41.1 | 61.7 |
| 55 | 28.3 | 23.0 | 34.6 |
| 61 | 27.4 | 21.4 | 32.2 |

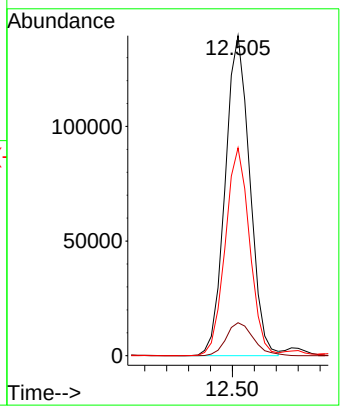





#75
1,1,2,2-Tetrachloroethane
Concen: 49.688 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 83 Resp: 21724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.4 | 5.9 | 17.6 |
| 85 | 64.4 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
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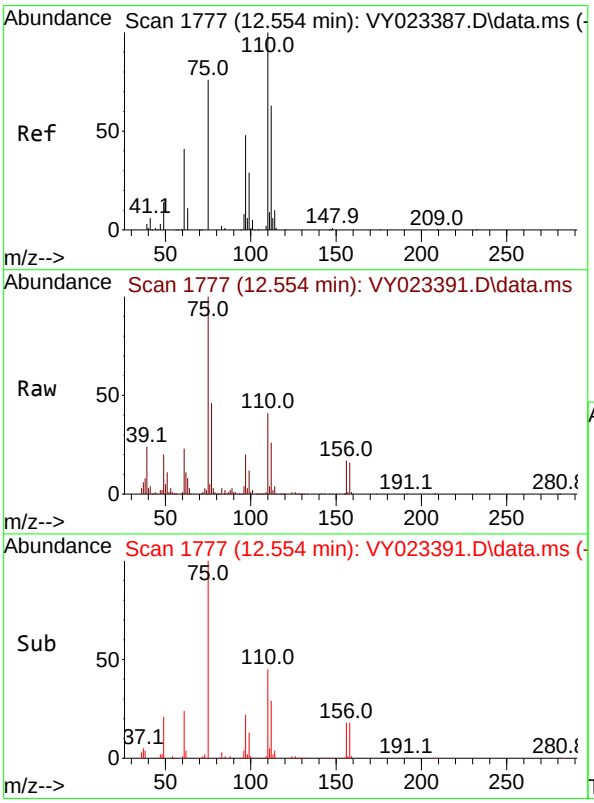
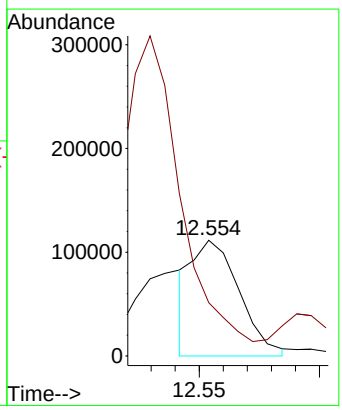
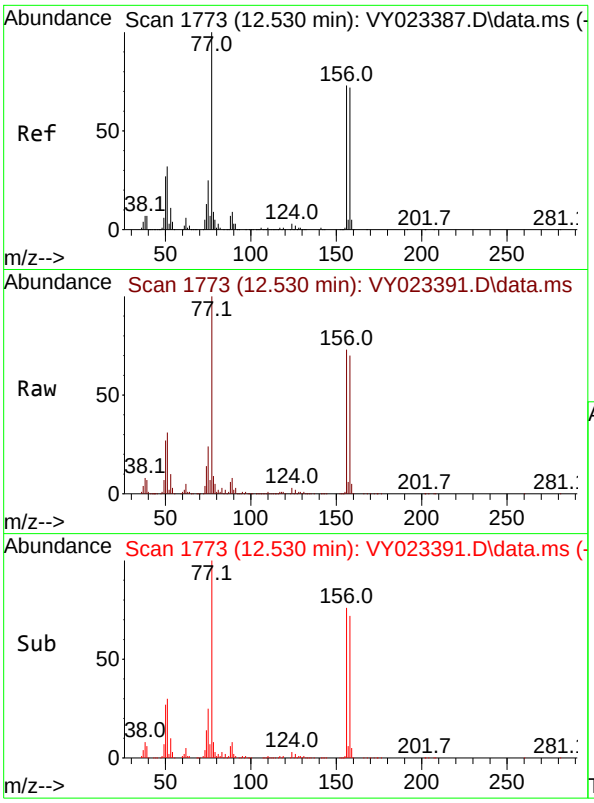



#76
1,2,3-Trichloropropane
Concen: 42.874 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 75 Resp: 153438

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

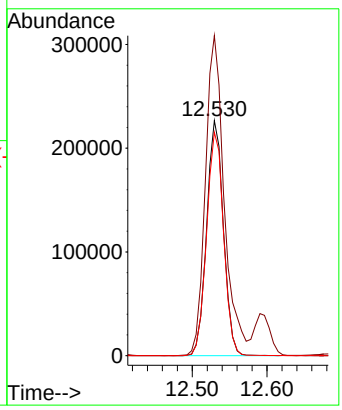





#77
Bromobenzene
Concen: 49.590 ug/l
RT: 12.530 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:156 Resp: 35242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 152.8 | 76.8 | 230.5 |
| 158 | 96.5 | 49.0 | 147.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
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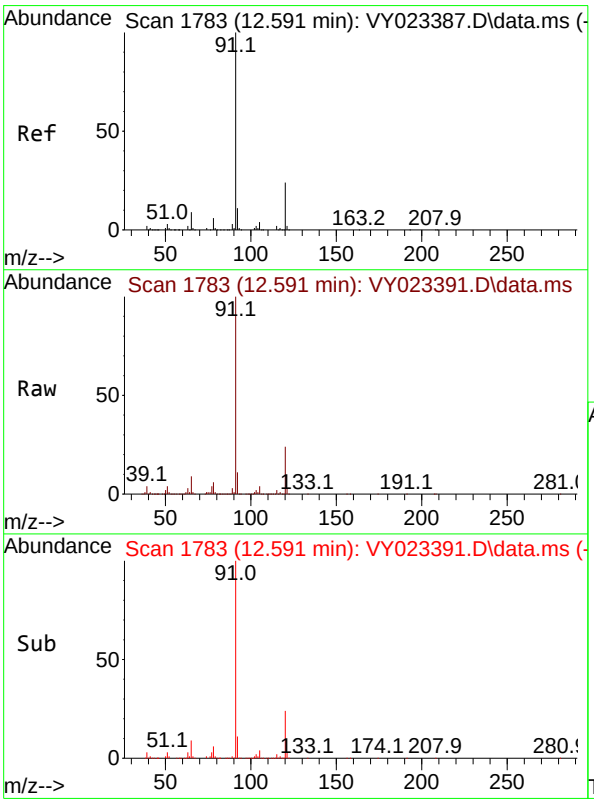
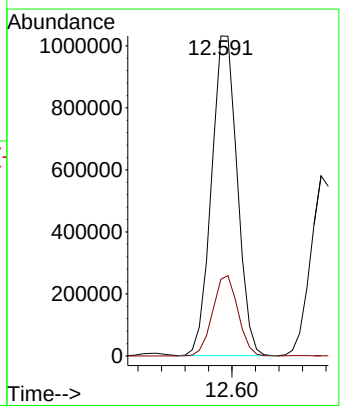
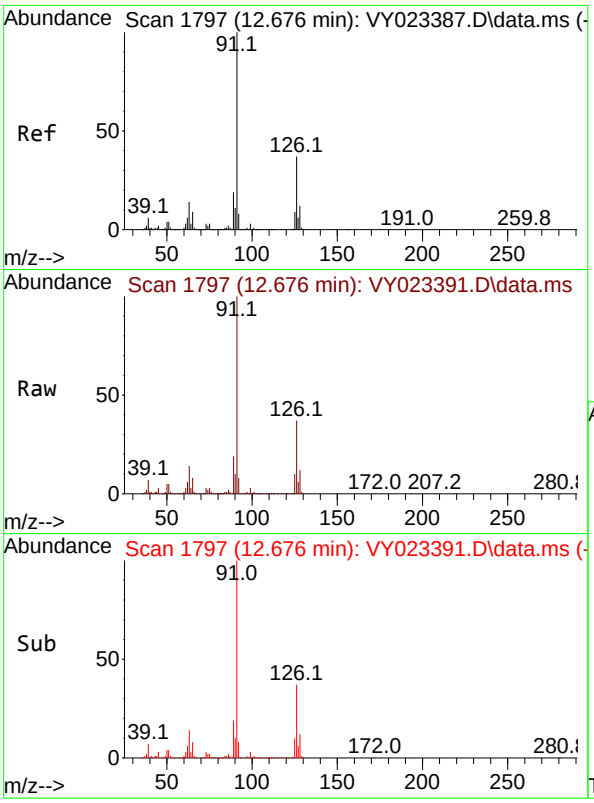



#78
n-propylbenzene
Concen: 50.694 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 91 Resp: 1568180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.7 | 12.3 | 36.8 |

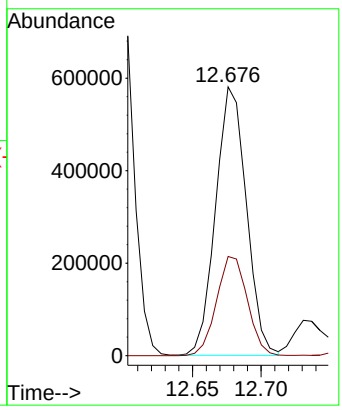





#79
2-Chlorotoluene
Concen: 50.047 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 91 Resp: 90661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 37.1 | 18.5 | 55.5 |




**Instrument :**
MSVOA_Y
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ICVVY100725

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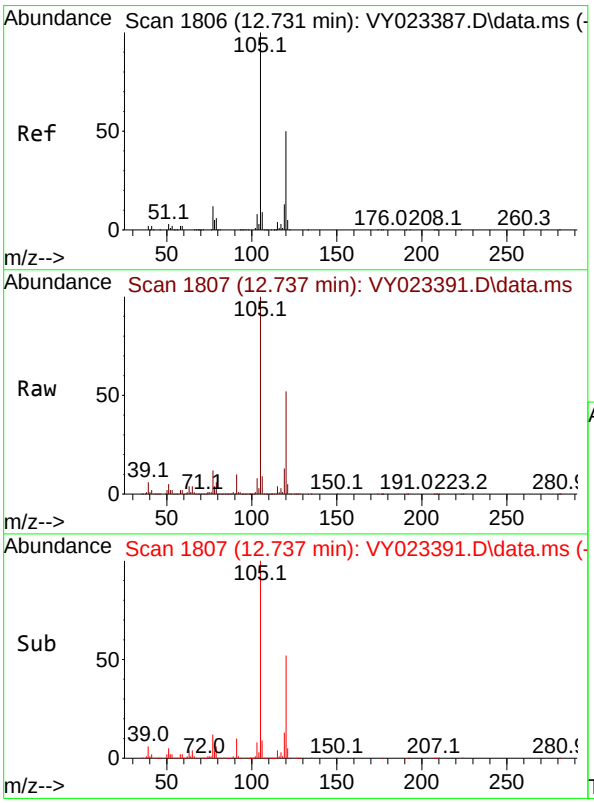
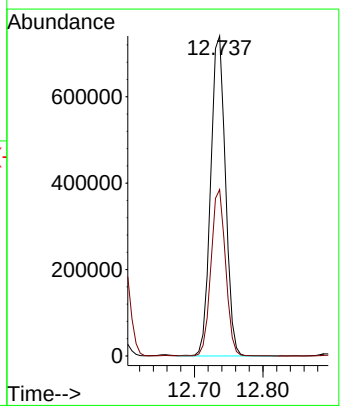
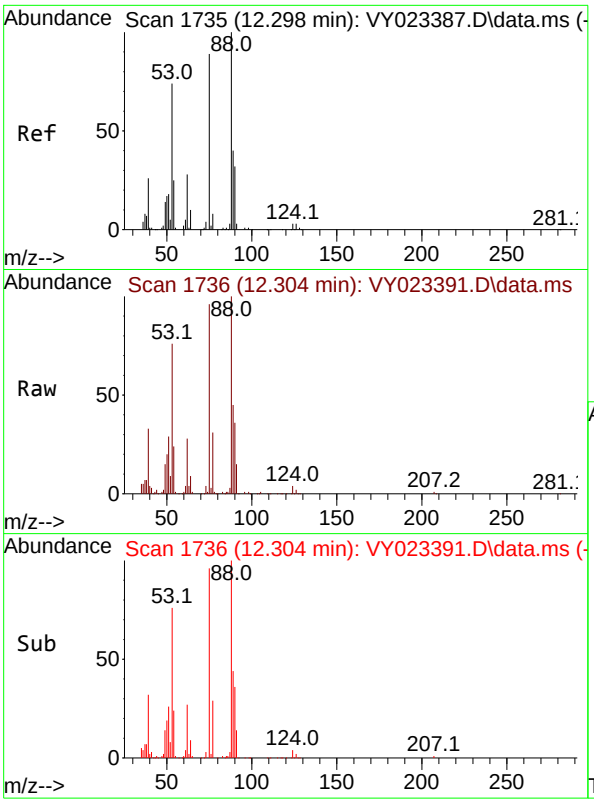



#80
1,3,5-Trimethylbenzene
Concen: 51.231 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:105 Resp: 1106664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 51.4 | 25.4 | 76.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 46.566 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 75 Resp: 6795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 82.6 | 68.6 | 102.8 |
| 89 | 46.5 | 39.0 | 58.4 |

**Instrument :**
MSVOA_Y
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ICVVY100725

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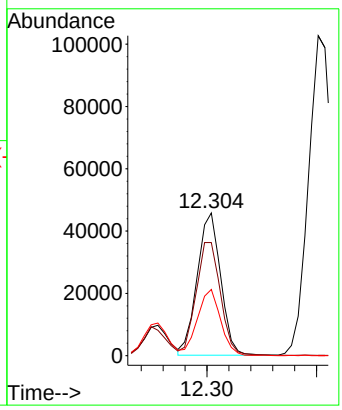
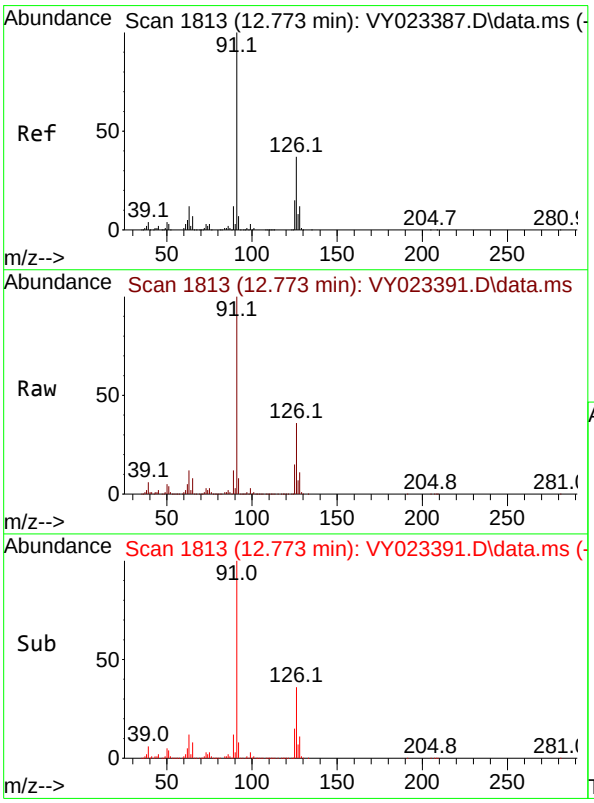
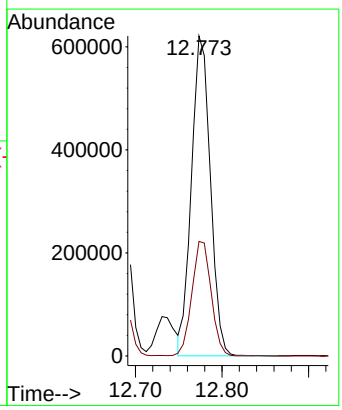


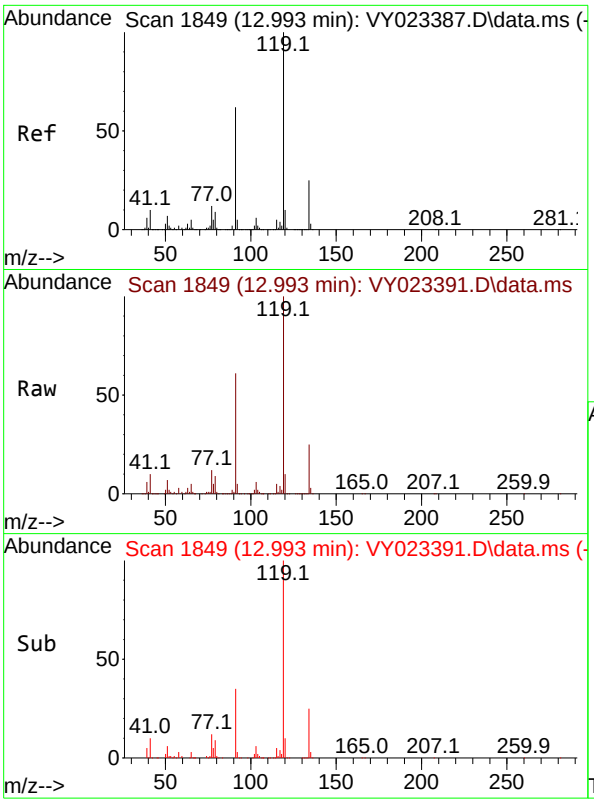




#82
4-Chlorotoluene
Concen: 50.455 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 91 Resp: 941314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.7 | 18.4 | 55.4 |

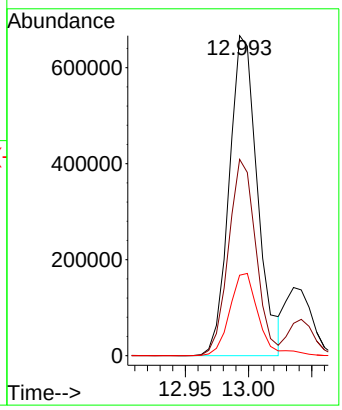





#83
tert-Butylbenzene
Concen: 52.019 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:119 Resp: 103751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 59.5 | 29.9 | 89.8 |
| 134 | 26.3 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

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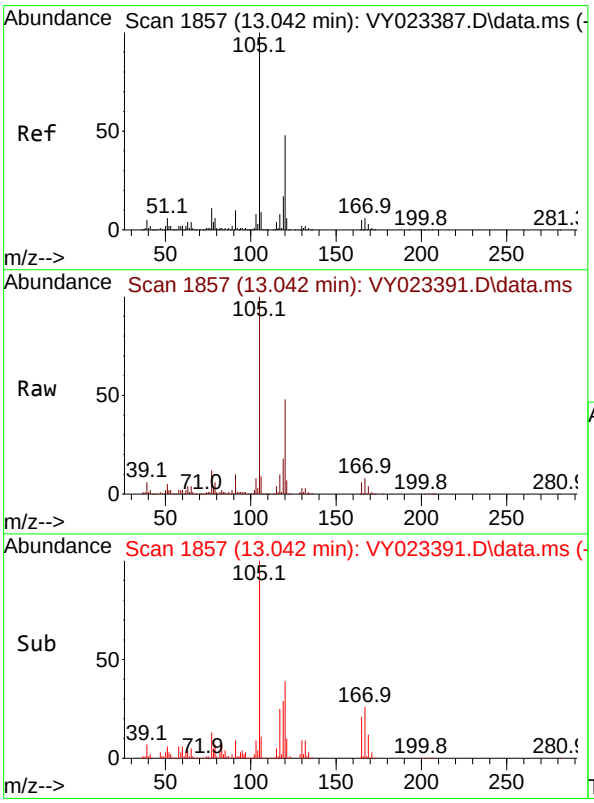
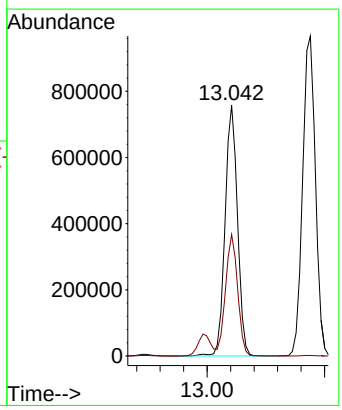
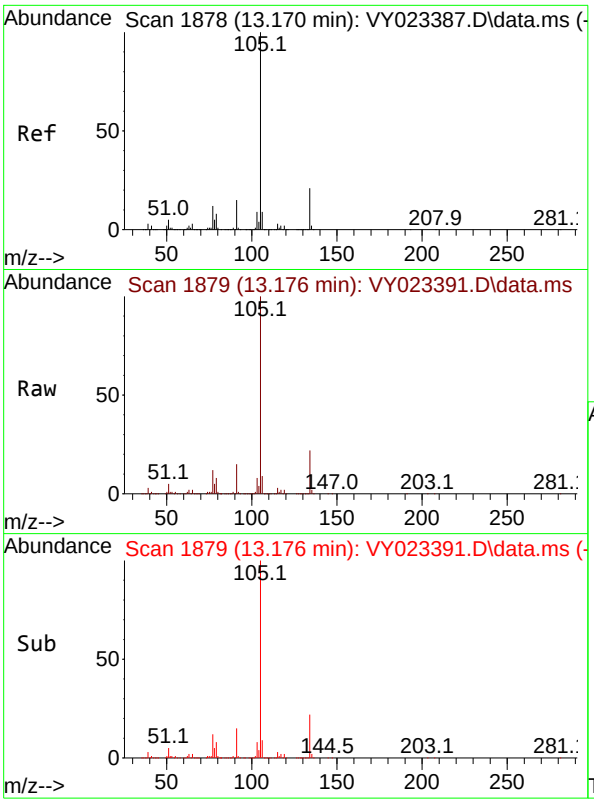



#84
1,2,4-Trimethylbenzene
Concen: 51.520 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:105 Resp: 1110672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.0 | 23.8 | 71.2 |

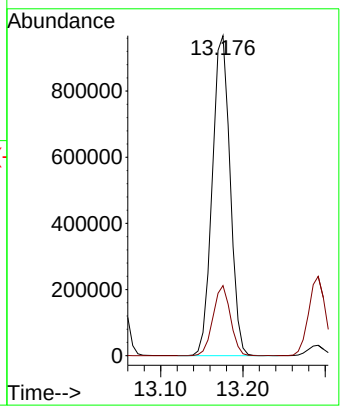





#85
sec-Butylbenzene
Concen: 50.848 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:105 Resp: 145477

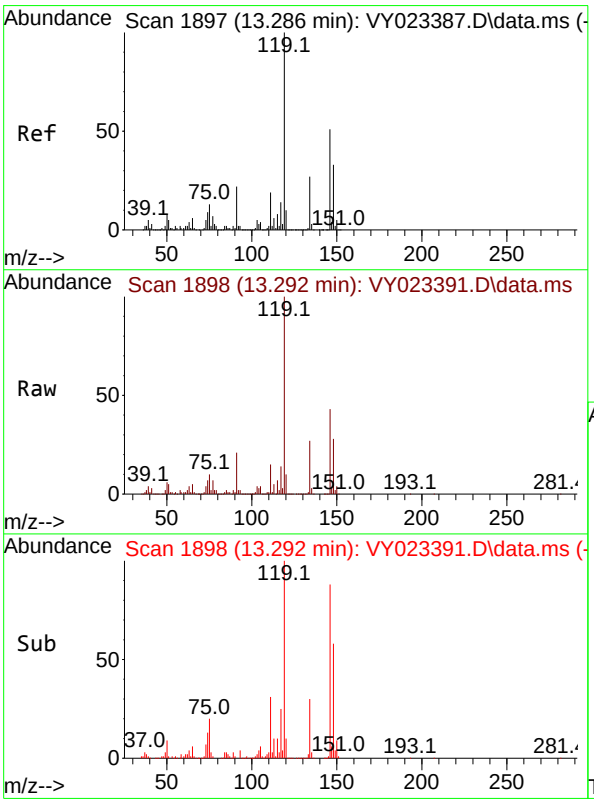
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.4 | 10.7 | 32.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
**APPROVED**

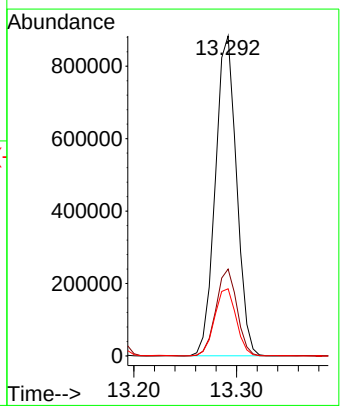
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

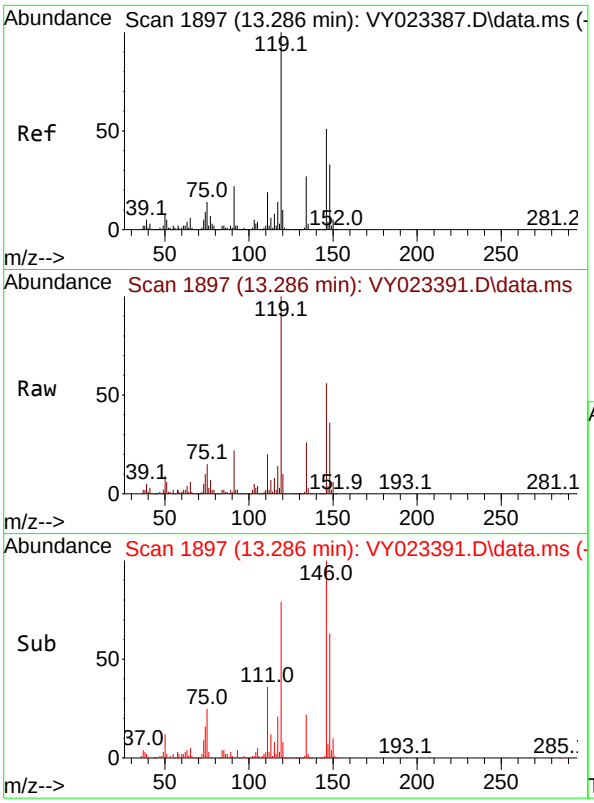



#86
p-Isopropyltoluene
Concen: 51.864 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:119 Resp: 1263377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.9 | 13.6 | 40.7 |
| 91 | 21.3 | 10.9 | 32.9 |

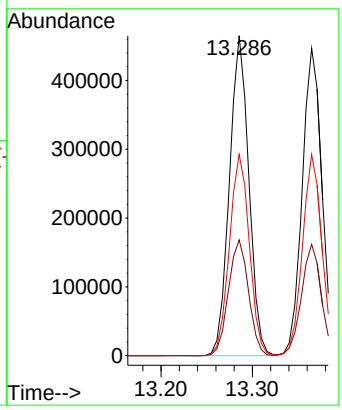





#87
1,3-Dichlorobenzene
Concen: 49.632 ug/l
RT: 13.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:146 Resp: 68685

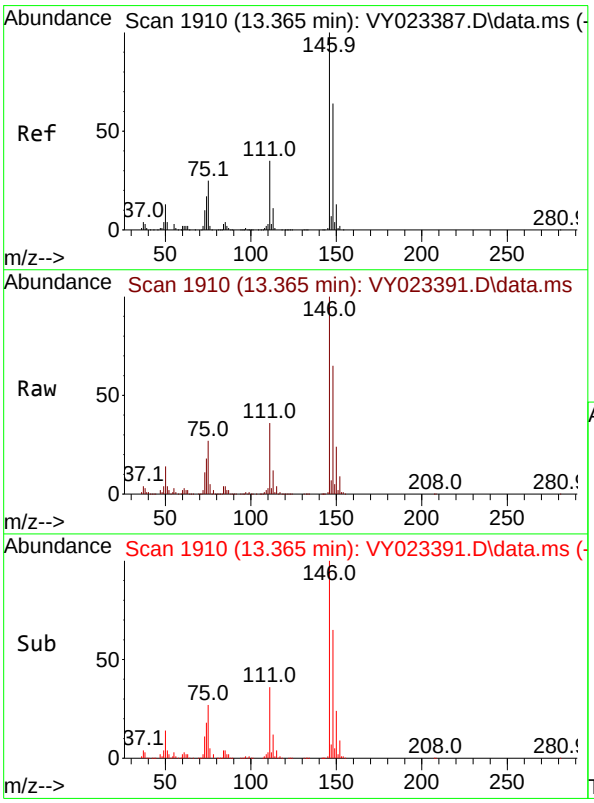
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.4 | 18.7 | 56.1 |
| 148 | 64.5 | 31.9 | 95.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
**APPROVED**

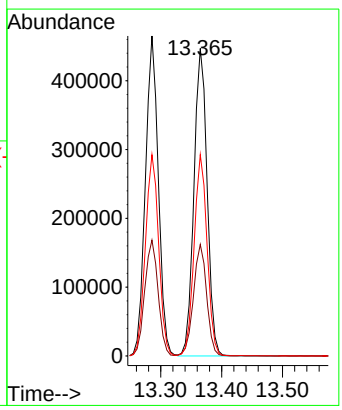
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

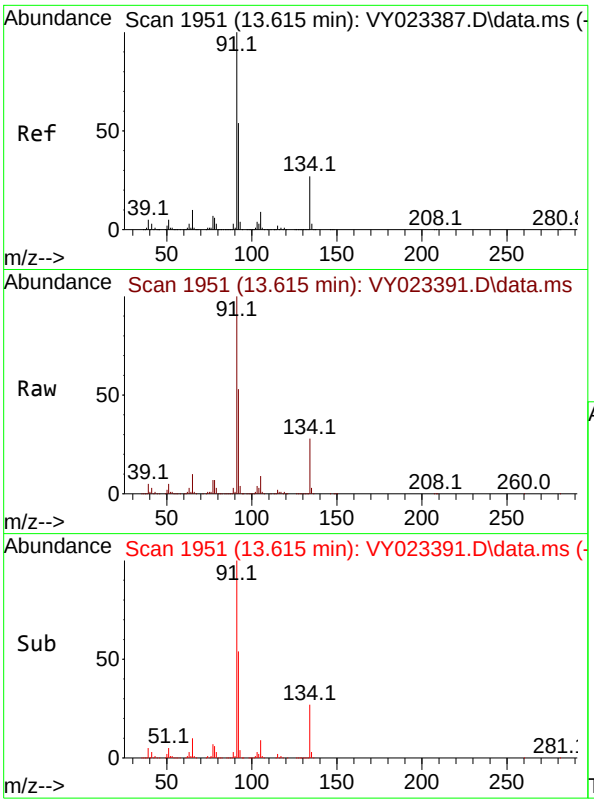



#88
1,4-Dichlorobenzene
Concen: 49.140 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:146 Resp: 671644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 36.2 | 18.0 | 54.0 |
| 148 | 64.2 | 31.9 | 95.7 |

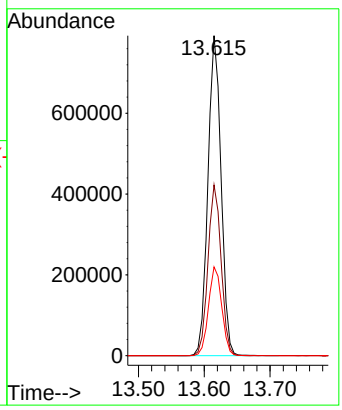





#89
n-Butylbenzene
Concen: 51.829 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 91 Resp: 110008

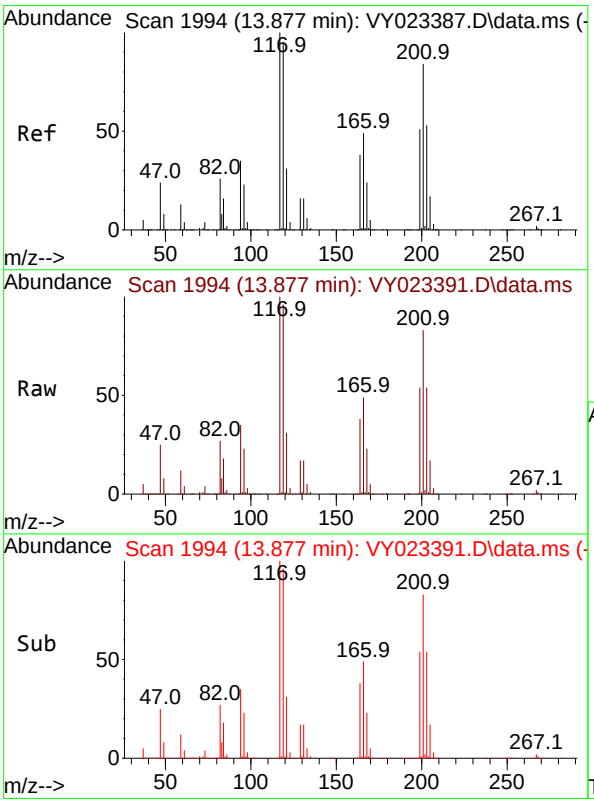
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.4 | 27.0 | 80.8 |
| 134 | 28.1 | 14.1 | 42.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
**APPROVED**

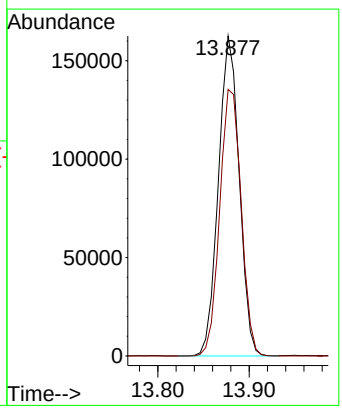
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

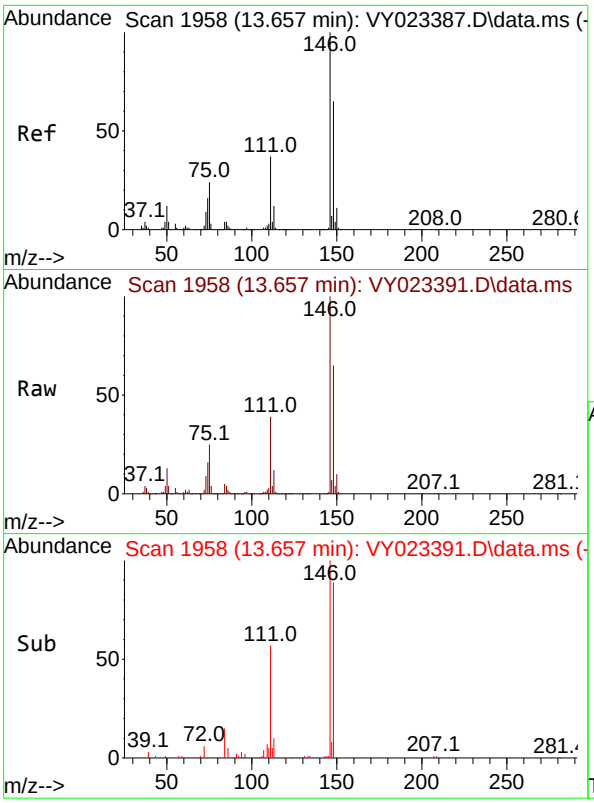



#90
Hexachloroethane
Concen: 49.116 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:117 Resp: 257335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 85.7 | 43.8 | 131.4 |

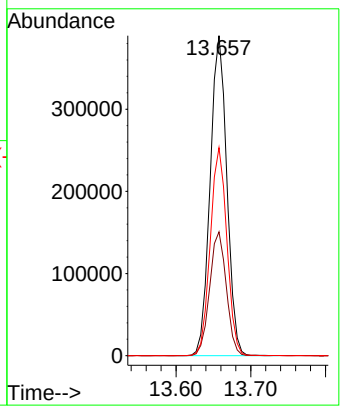





#91
1,2-Dichlorobenzene
Concen: 49.698 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:146 Resp: 60298

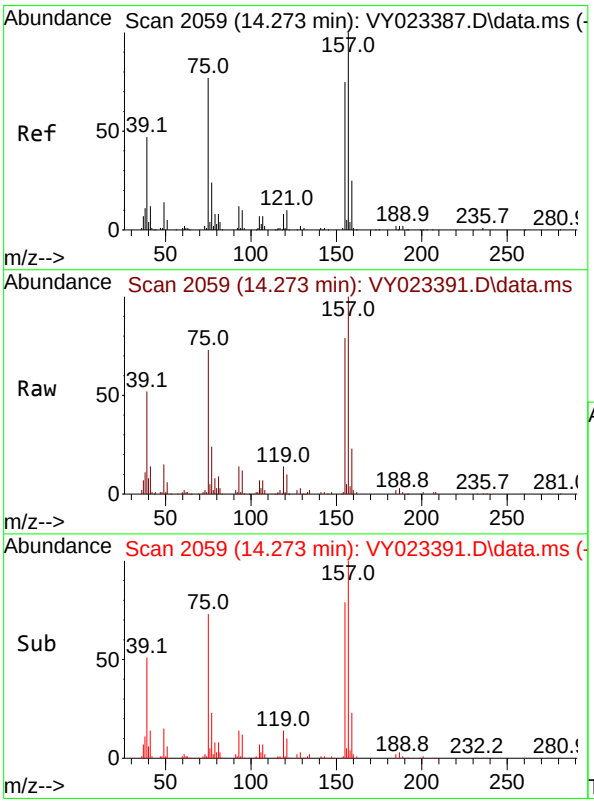
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.7 | 19.0 | 57.0 |
| 148 | 64.8 | 32.1 | 96.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
**APPROVED**

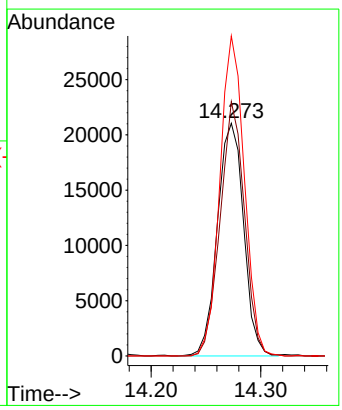
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

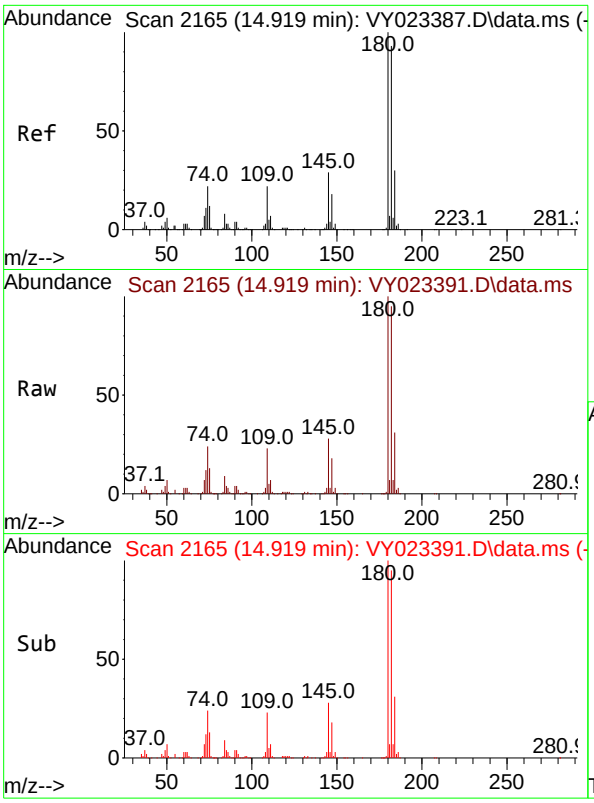



#92
1,2-Dibromo-3-Chloropropane
Concen: 48.687 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 75 Resp: 34928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 101.5 | 50.0 | 150.0 |
| 157 | 128.5 | 63.8 | 191.5 |

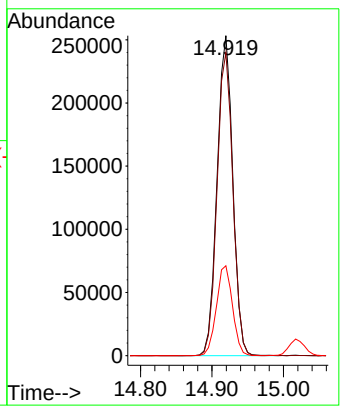





#93
1,2,4-Trichlorobenzene
Concen: 51.138 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:180 Resp: 38680

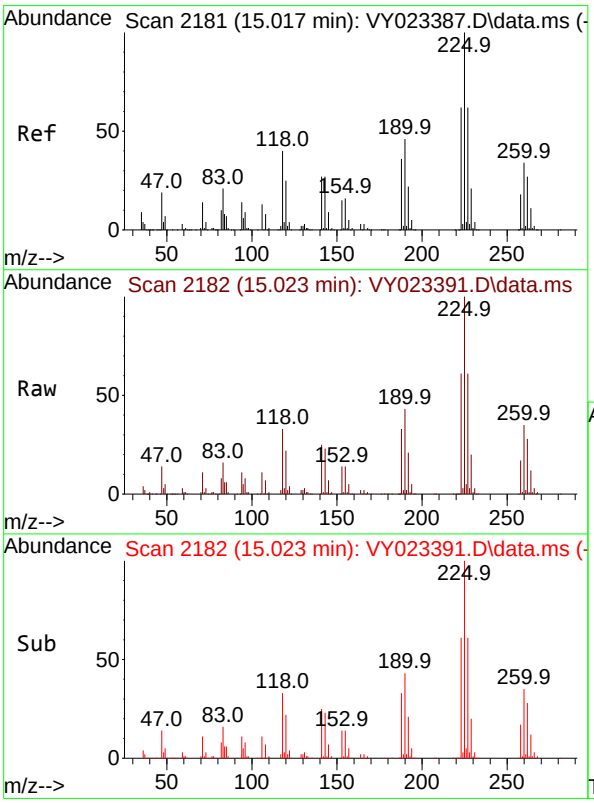
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 47.9 | 143.6 |
| 145 | 28.8 | 14.7 | 44.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
**APPROVED**

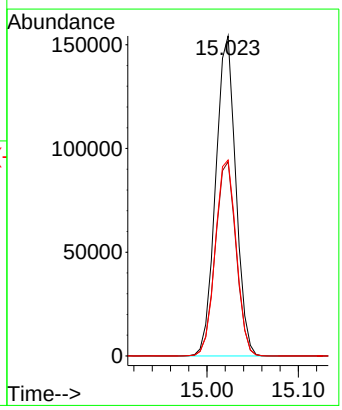
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

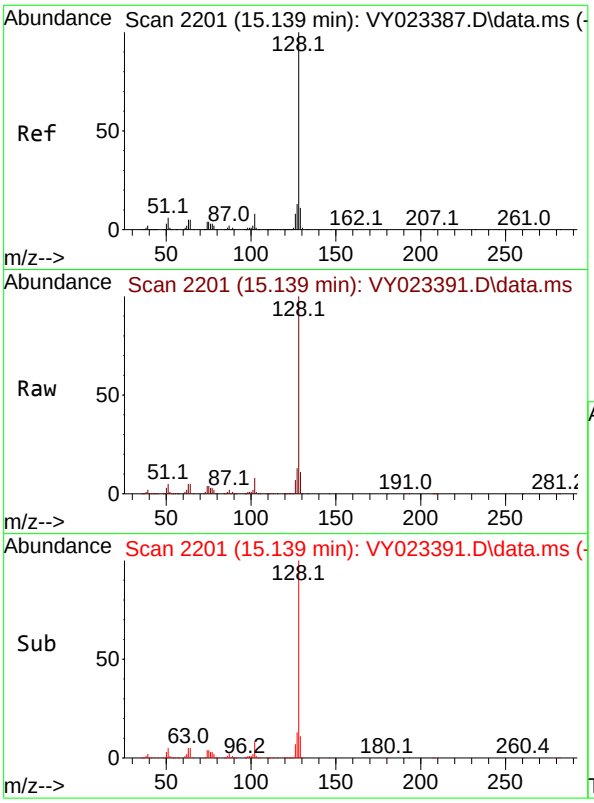



#94
Hexachlorobutadiene
Concen: 50.061 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:225 Resp: 236040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.6 | 30.8 | 92.3 |
| 227 | 63.6 | 31.9 | 95.7 |

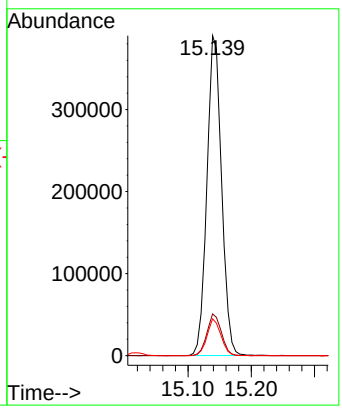





#95
Naphthalene
Concen: 52.154 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:128 Resp: 62819

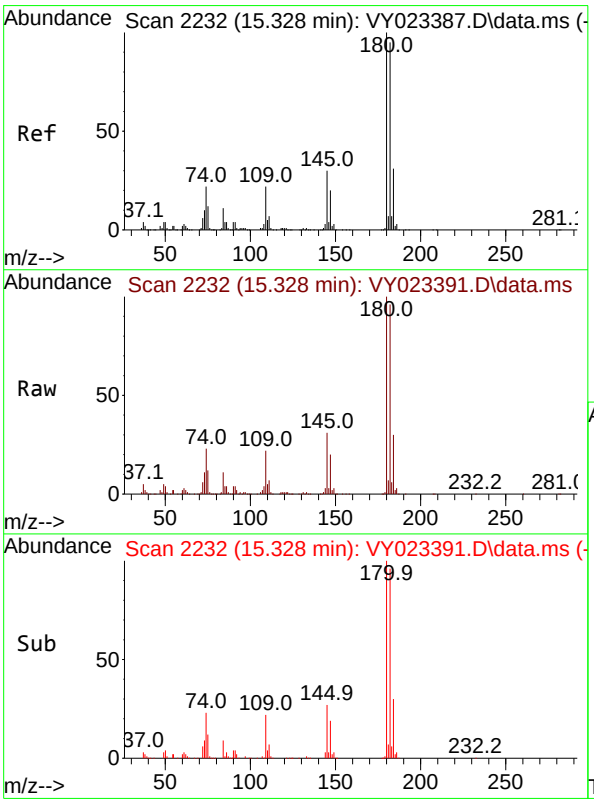
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.4 | 15.6 |
| 129 | 11.0 | 8.9 | 13.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

**Manual Integrations**
**APPROVED**

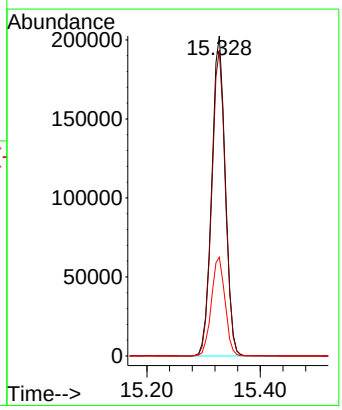
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025




#96
1,2,3-Trichlorobenzene
Concen: 51.172 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:180 Resp: 335267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.7 | 47.9 | 143.8 |
| 145 | 31.1 | 15.3 | 45.9 |



# Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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 | 97 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 44.916 | 10.2 | 98 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 52.519 | -5.0 | 112 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 49.449 | 1.1# | 103 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 48.856 | 2.3 | 109 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 51.367 | -2.7 | 105 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 48.582 | 2.8 | 100 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 51.050 | -2.1 | 107 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.728 | 2.5 | 100 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 51.875 | -3.8 | 96 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 231.079 | 7.6 | 112 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 49.653 | 0.7# | 101 | 0.00 |
| 13 | T | Acrolein | 250.000 | 246.184 | 1.5 | 101 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 50.645 | -1.3 | 102 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 251.575 | -0.6 | 106 | 0.00 |
| 16 | T | Acetone | 250.000 | 212.910 | 14.8 | 99 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 50.021 | -0.0 | 101 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 50.439 | -0.9 | 104 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 52.230 | -4.5 | 107 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 52.503 | -5.0 | 120 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 51.482 | -3.0 | 105 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 51.364 | -2.7 | 103 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 260.981 | -4.4 | 106 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.742 | -1.5 | 104 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 233.083 | 6.8 | 105 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 49.626 | 0.7 | 100 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 52.485 | -5.0 | 107 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 45.427 | 9.1 | 99 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 253.317 | -1.3 | 107 | 0.00 |
| 30 | C | Chloroform | 50.000 | 51.137 | -2.3# | 104 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 47.416 | 5.2 | 100 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 49.934 | 0.1 | 101 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.450 | 1.1 | 103 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.116 | 1.8 | 101 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.761 | 0.5 | 102 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 49.740 | 0.5 | 107 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 48.671 | 2.7 | 100 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 49.970 | 0.1 | 101 | 0.00 |
| 40 | TM | Benzene | 50.000 | 49.906 | 0.2 | 102 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 48.008 | 4.0 | 105 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 49.318 | 1.4 | 104 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 50.548 | -1.1 | 108 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 49.120 | 1.8 | 101 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.355 | -0.7# | 105 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 50.885 | -1.8 | 106 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 50.450 | -0.9 | 104 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 49.440 | 1.1 | 101 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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 | 1039.252 | -3.9 | 110 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 49.228 | 1.5 | 100 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 253.421 | -1.4 | 106 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.556 | -3.1# | 105 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 51.160 | -2.3 | 105 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 51.649 | -3.3 | 106 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 50.430 | -0.9 | 106 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 53.385 | -6.8 | 107 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 51.113 | -2.2 | 105 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 272.133 | -8.9 | 106 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 245.480 | 1.8 | 105 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 50.974 | -1.9 | 106 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 50.658 | -1.3 | 105 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 49.881 | 0.2 | 104 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 48.087 | 3.8 | 98 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.381 | 1.2 | 105 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 49.537 | 0.9 | 106 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 50.841 | -1.7# | 104 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 101.757 | -1.8 | 103 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 51.577 | -3.2 | 105 | 0.00 |
| 70 | T | Styrene | 50.000 | 52.122 | -4.2 | 105 | 0.00 |
| 71 | P | Bromoform | 50.000 | 50.070 | -0.1 | 108 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 50.318 | -0.6 | 103 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 51.087 | -2.2 | 108 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 49.688 | 0.6 | 111 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 42.874 | 14.3 | 90 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.590 | 0.8 | 106 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 50.694 | -1.4 | 103 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 50.047 | -0.1 | 104 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.231 | -2.5 | 104 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 46.566 | 6.9 | 103 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 50.455 | -0.9 | 105 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 52.019 | -4.0 | 105 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.520 | -3.0 | 105 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 50.848 | -1.7 | 104 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 51.864 | -3.7 | 104 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 49.632 | 0.7 | 106 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 49.140 | 1.7 | 105 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 51.829 | -3.7 | 105 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 49.116 | 1.8 | 105 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 49.698 | 0.6 | 106 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.687 | 2.6 | 107 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 51.138 | -2.3 | 107 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 50.061 | -0.1 | 104 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 52.154 | -4.3 | 109 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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 | 51.172 | -2.3 | 108 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

# Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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 | 97 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.360 | 0.323 | 10.3 | 98 | 0.00 |
| 3 | P | Chloromethane | 0.490 | 0.515 | -5.1 | 112 | 0.00 |
| 4 | C | Vinyl Chloride | 0.639 | 0.632 | 1.1# | 103 | 0.00 |
| 5 | T | Bromomethane | 0.536 | 0.524 | 2.2 | 109 | 0.00 |
| 6 | T | Chloroethane | 0.435 | 0.447 | -2.8 | 105 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.887 | 0.862 | 2.8 | 100 | 0.00 |
| 8 | T | Diethyl Ether | 0.232 | 0.237 | -2.2 | 107 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.460 | 0.448 | 2.6 | 100 | 0.00 |
| 10 | T | Methyl Iodide | 0.512 | 0.531 | -3.7 | 96 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.031 | 0.029 | 6.5 | 112 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.446 | 0.443 | 0.7# | 101 | 0.00 |
| 13 | T | Acrolein | 0.044 | 0.043 | 2.3 | 101 | 0.00 |
| 14 | T | Allyl chloride | 0.544 | 0.551 | -1.3 | 102 | 0.00 |
| 15 | T | Acrylonitrile | 0.089 | 0.089 | 0.0 | 106 | 0.00 |
| 16 | T | Acetone | 0.100 | 0.085 | 15.0 | 99 | 0.00 |
| 17 | T | Carbon Disulfide | 1.277 | 1.277 | 0.0 | 101 | 0.00 |
| 18 | T | Methyl Acetate | 0.261 | 0.263 | -0.8 | 104 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.072 | 1.120 | -4.5 | 107 | 0.00 |
| 20 | T | Methylene Chloride | 0.538 | 0.565 | -5.0 | 120 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.491 | 0.506 | -3.1 | 105 | 0.00 |
| 22 | T | Diisopropyl ether | 1.202 | 1.235 | -2.7 | 103 | 0.00 |
| 23 | T | Vinyl Acetate | 0.651 | 0.679 | -4.3 | 106 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.796 | 0.808 | -1.5 | 104 | 0.00 |
| 25 | T | 2-Butanone | 0.122 | 0.113 | 7.4 | 105 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.731 | 0.725 | 0.8 | 100 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.567 | 0.595 | -4.9 | 107 | 0.00 |
| 28 | T | Bromochloromethane | 0.297 | 0.270 | 9.1 | 99 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.069 | 0.070 | -1.4 | 107 | 0.00 |
| 30 | C | Chloroform | 0.875 | 0.895 | -2.3# | 104 | 0.00 |
| 31 | T | Cyclohexane | 0.696 | 0.660 | 5.2 | 100 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.795 | 0.794 | 0.1 | 101 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.418 | 0.414 | 1.0 | 103 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.307 | 0.302 | 1.6 | 101 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.407 | 0.405 | 0.5 | 102 | 0.00 |
| 37 | T | Ethyl Acetate | 0.161 | 0.160 | 0.6 | 107 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.493 | 0.480 | 2.6 | 100 | 0.00 |
| 39 | T | Methylcyclohexane | 0.530 | 0.529 | 0.2 | 101 | 0.00 |
| 40 | TM | Benzene | 1.288 | 1.286 | 0.2 | 102 | 0.00 |
| 41 | T | Methacrylonitrile | 0.087 | 0.084 | 3.4 | 105 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.332 | 0.328 | 1.2 | 104 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.321 | 0.325 | -1.2 | 108 | 0.00 |
| 44 | TM | Trichloroethene | 0.377 | 0.370 | 1.9 | 101 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.285 | 0.287 | -0.7# | 105 | 0.00 |
| 46 | T | Dibromomethane | 0.180 | 0.183 | -1.7 | 106 | 0.00 |
| 47 | T | Bromodichloromethane | 0.453 | 0.457 | -0.9 | 104 | 0.00 |
| 48 | T | Methyl methacrylate | 0.151 | 0.149 | 1.3 | 101 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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 | 110 | 0.00 |
| 50 | S | Toluene-d8 | 1.144 | 1.126 | 1.6 | 100 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.166 | 0.168 | -1.2 | 106 | 0.00 |
| 52 | CM | Toluene | 0.836 | 0.862 | -3.1# | 105 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.394 | 0.403 | -2.3 | 105 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.465 | 0.480 | -3.2 | 106 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.242 | 0.244 | -0.8 | 106 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.279 | 0.298 | -6.8 | 107 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.383 | 0.392 | -2.3 | 105 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.125 | 0.136 | -8.8 | 106 | 0.00 |
| 59 | T | 2-Hexanone | 0.119 | 0.116 | 2.5 | 105 | 0.00 |
| 60 | T | Dibromochloromethane | 0.339 | 0.346 | -2.1 | 106 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.231 | 0.234 | -1.3 | 105 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.378 | 0.377 | 0.3 | 104 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 64 | T | Tetrachloroethene | 0.516 | 0.497 | 3.7 | 98 | 0.00 |
| 65 | PM | Chlorobenzene | 1.087 | 1.074 | 1.2 | 105 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.388 | 0.384 | 1.0 | 106 | 0.00 |
| 67 | C | Ethyl Benzene | 1.760 | 1.790 | -1.7# | 104 | 0.00 |
| 68 | T | m/p-Xylenes | 0.706 | 0.718 | -1.7 | 103 | 0.00 |
| 69 | T | o-Xylene | 0.662 | 0.683 | -3.2 | 105 | 0.00 |
| 70 | T | Styrene | 1.089 | 1.135 | -4.2 | 105 | 0.00 |
| 71 | P | Bromoform | 0.240 | 0.241 | -0.4 | 108 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 73 | T | Isopropylbenzene | 3.295 | 3.316 | -0.6 | 103 | 0.00 |
| 74 | T | N-amyl acetate | 0.592 | 0.605 | -2.2 | 108 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.539 | 0.536 | 0.6 | 111 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.441 | 0.378 | 14.3 | 90 | 0.00 |
| 77 | T | Bromobenzene | 0.876 | 0.869 | 0.8 | 106 | 0.00 |
| 78 | T | n-propylbenzene | 3.813 | 3.866 | -1.4 | 103 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.233 | 2.235 | -0.1 | 104 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.663 | 2.728 | -2.4 | 104 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.180 | 0.168 | 6.7 | 103 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.300 | 2.321 | -0.9 | 105 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.458 | 2.558 | -4.1 | 105 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.657 | 2.738 | -3.0 | 105 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.527 | 3.586 | -1.7 | 104 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.003 | 3.115 | -3.7 | 104 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.706 | 1.693 | 0.8 | 106 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.685 | 1.656 | 1.7 | 105 | 0.00 |
| 89 | T | n-Butylbenzene | 2.616 | 2.712 | -3.7 | 105 | 0.00 |
| 90 | T | Hexachloroethane | 0.646 | 0.634 | 1.9 | 105 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.496 | 1.487 | 0.6 | 106 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.088 | 0.086 | 2.3 | 107 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.932 | 0.954 | -2.4 | 107 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.581 | 0.582 | -0.2 | 104 | 0.00 |
| 95 | T | Naphthalene | 1.485 | 1.549 | -4.3 | 109 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY100725

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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 | 0.808 | 0.827 | -2.4 | 108 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VY023407.D**

Alliance TECHNICAL GROUP

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: ROYF02
Lab Code: ACE
SDG No.: Q3321
Instrument ID: MSVOA_Y
Calibration Date/Time: 10/09/2025 08:47
Lab File ID: VY023407.D
Init. Calib. Date(s): 10/07/2025 10/07/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 09:17 12:32
GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.360 | 0.325 | | -9.72 | 20 |
| Chloromethane | 0.490 | 0.457 | 0.1 | -6.74 | 20 |
| Vinyl Chloride | 0.639 | 0.603 | | -5.63 | 20 |
| Bromomethane | 0.536 | 0.486 | | -9.33 | 20 |
| Chloroethane | 0.435 | 0.429 | | -1.38 | 20 |
| Trichlorofluoromethane | 0.887 | 0.840 | | -5.3 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.460 | 0.464 | | 0.87 | 20 |
| 1,1-Dichloroethene | 0.446 | 0.439 | | -1.57 | 20 |
| Acetone | 0.100 | 0.108 | | 8 | 20 |
| Carbon Disulfide | 1.277 | 1.281 | | 0.31 | 20 |
| Methyl tert-butyl Ether | 1.072 | 1.059 | | -1.21 | 20 |
| Methyl Acetate | 0.261 | 0.259 | | -0.77 | 20 |
| Methylene Chloride | 0.538 | 0.497 | | -7.62 | 20 |
| trans-1,2-Dichloroethene | 0.491 | 0.501 | | 2.04 | 20 |
| 1,1-Dichloroethane | 0.796 | 0.803 | 0.1 | 0.88 | 20 |
| Cyclohexane | 0.696 | 0.654 | | -6.03 | 20 |
| 2-Butanone | 0.122 | 0.121 | | -0.82 | 20 |
| Carbon Tetrachloride | 0.493 | 0.516 | | 4.66 | 20 |
| cis-1,2-Dichloroethene | 0.567 | 0.579 | | 2.12 | 20 |
| Bromochloromethane | 0.297 | 0.276 | | -7.07 | 20 |
| Chloroform | 0.875 | 0.894 | | 2.17 | 20 |
| 1,1,1-Trichloroethane | 0.795 | 0.802 | | 0.88 | 20 |
| Methylcyclohexane | 0.530 | 0.548 | | 3.4 | 20 |
| Benzene | 1.288 | 1.342 | | 4.19 | 20 |
| 1,2-Dichloroethane | 0.332 | 0.340 | | 2.41 | 20 |
| Trichloroethene | 0.377 | 0.386 | | 2.39 | 20 |
| 1,2-Dichloropropane | 0.285 | 0.296 | | 3.86 | 20 |
| Bromodichloromethane | 0.453 | 0.475 | | 4.86 | 20 |
| 4-Methyl-2-Pentanone | 0.166 | 0.174 | | 4.82 | 20 |
| Toluene | 0.836 | 0.894 | | 6.94 | 20 |
| t-1,3-Dichloropropene | 0.394 | 0.411 | | 4.32 | 20 |
| cis-1,3-Dichloropropene | 0.465 | 0.487 | | 4.73 | 20 |
| 1,1,2-Trichloroethane | 0.242 | 0.255 | | 5.37 | 20 |
| 2-Hexanone | 0.119 | 0.126 | | 5.88 | 20 |
| Dibromochloromethane | 0.339 | 0.355 | | 4.72 | 20 |
| 1,2-Dibromoethane | 0.231 | 0.241 | | 4.33 | 20 |
| Tetrachloroethene | 0.516 | 0.534 | | 3.49 | 20 |
| Chlorobenzene | 1.087 | 1.103 | 0.3 | 1.47 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VY023407.D**

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

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | ROYF02 |
| Lab Code: | ACE | SDG No.: | Q3321 |
| Instrument ID: | MSVOA_Y | Calibration Date/Time: | 10/09/2025 08:47 |
| Lab File ID: | VY023407.D | Init. Calib. Date(s): | 10/07/2025 10/07/2025 |
| Heated Purge: (Y/N) | Y | Init. Calib. Time(s): | 09:17 12:32 |

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.760 | 1.836 | | 4.32 | 20 |
| m/p-Xylenes | 0.706 | 0.745 | | 5.52 | 20 |
| o-Xylene | 0.662 | 0.689 | | 4.08 | 20 |
| Styrene | 1.089 | 1.151 | | 5.69 | 20 |
| Bromoform | 0.240 | 0.243 | 0.1 | 1.25 | 20 |
| Isopropylbenzene | 3.295 | 3.452 | | 4.76 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.539 | 0.537 | 0.3 | -0.37 | 20 |
| 1,3-Dichlorobenzene | 1.706 | 1.710 | | 0.23 | 20 |
| 1,4-Dichlorobenzene | 1.685 | 1.673 | | -0.71 | 20 |
| 1,2-Dichlorobenzene | 1.496 | 1.512 | | 1.07 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.088 | 0.085 | | -3.41 | 20 |
| 1,2,4-Trichlorobenzene | 0.932 | 0.876 | | -6.01 | 20 |
| 1,2,3-Trichlorobenzene | 0.808 | 0.755 | | -6.56 | 20 |
| 1,2-Dichloroethane-d4 | 0.418 | 0.413 | | -1.2 | 20 |
| Dibromofluoromethane | 0.307 | 0.317 | | 3.26 | 20 |
| Toluene-d8 | 1.144 | 1.201 | | 4.98 | 20 |
| 4-Bromofluorobenzene | 0.378 | 0.383 | | 1.32 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Sample Results: **VY023407.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023407.D
Acq On : 09 Oct 2025 08:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 10 04:19:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 540041 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 774126 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 696341 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 360790 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 223226 | 49.431 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 98.860% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 245021 | 51.511 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 103.020% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 929940 | 52.497 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 105.000% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 296545 | 50.706 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 101.420% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 175562 | 45.165 | ug/l | 98 |
| 3) Chloromethane | 2.074 | 50 | 246897 | 46.626 | ug/l | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 325565 | 47.203 | ug/l | 100 |
| 5) Bromomethane | 2.599 | 94 | 262495 | 45.352 | ug/l | 99 |
| 6) Chloroethane | 2.739 | 64 | 231682 | 49.279 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 453600 | 47.366 | ug/l | 99 |
| 8) Diethyl Ether | 3.458 | 74 | 119924 | 47.924 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 250343 | 50.377 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 302659 | 54.708 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.860 | 59 | 72062 | 214.498 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 237323 | 49.265 | ug/l | 93 |
| 13) Acrolein | 3.653 | 56 | 93981 | 197.974 | ug/l | 97 |
| 14) Allyl chloride | 4.385 | 41 | 289487 | 49.309 | ug/l | 99 |
| 15) Acrylonitrile | 5.061 | 53 | 235123 | 245.521 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 292955 | 272.492 | ug/l | 99 |
| 17) Carbon Disulfide | 4.110 | 76 | 691816 | 50.177 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 139750 | 49.553 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 572075 | 49.411 | ug/l | 96 |
| 20) Methylene Chloride | 4.616 | 84 | 268581 | 46.200 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 270715 | 51.043 | ug/l | 99 |
| 22) Diisopropyl ether | 6.025 | 45 | 661171 | 50.913 | ug/l | 100 |
| 23) Vinyl Acetate | 5.964 | 43 | 1772777 | 252.202 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 433528 | 50.397 | ug/l | 98 |
| 25) 2-Butanone | 6.897 | 43 | 327067 | 249.190 | ug/l | 95 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 402884 | 51.041 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.897 | 96 | 312842 | 51.065 | ug/l | 98 |
| 28) Bromochloromethane | 7.250 | 49 | 148933 | 46.377 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.268 | 42 | 181368 | 243.679 | ug/l | 100 |
| 30) Chloroform | 7.427 | 83 | 482665 | 51.069 | ug/l | 99 |
| 31) Cyclohexane | 7.707 | 56 | 353221 | 47.019 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 433016 | 50.415 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 330135 | 52.425 | ug/l | 100 |
| 37) Ethyl Acetate | 6.988 | 43 | 127592 | 51.143 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 399630 | 52.336 | ug/l | 98 |
| 39) Methylcyclohexane | 9.110 | 83 | 423860 | 51.695 | ug/l | 99 |
| 40) Benzene | 8.085 | 78 | 1038659 | 52.081 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023407.D
Acq On : 09 Oct 2025 08:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 10 04:19:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 70514 | 52.260 | ug/l | | 92 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 263484 | 51.228 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.201 | 43 | 246006 | 49.451 | ug/l | # | 87 |
| 44) Trichloroethene | 8.866 | 130 | 299026 | 51.229 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 229106 | 52.011 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 148392 | 53.275 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.427 | 83 | 367798 | 52.430 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.225 | 41 | 117590 | 50.315 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.231 | 88 | 29182 | 903.627 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 673260 | 261.942 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 691962 | 53.439 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 318047 | 52.141 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 376659 | 52.320 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 197777 | 52.802 | ug/l | | 95 |
| 56) Ethyl methacrylate | 10.439 | 69 | 230201 | 53.280 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 312218 | 52.603 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 510862 | 263.940 | ug/l | | 100 |
| 59) 2-Hexanone | 10.762 | 43 | 486294 | 264.747 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.914 | 129 | 275135 | 52.392 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 186575 | 52.230 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 372099 | 51.752 | ug/l | | 98 |
| 65) Chlorobenzene | 11.444 | 112 | 768208 | 50.723 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 275973 | 51.134 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 1278315 | 52.144 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 1037707 | 105.533 | ug/l | | 100 |
| 69) o-Xylene | 11.957 | 106 | 479717 | 52.013 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 801488 | 52.844 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 168928 | 50.460 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 1245422 | 52.380 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 213212 | 49.925 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 193812 | 49.838 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 150310m | 47.221 | ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 317747 | 50.268 | ug/l | | 98 |
| 78) n-propylbenzene | 12.597 | 91 | 1458866 | 53.022 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 832200 | 51.650 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 1020091 | 53.093 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 64795 | 49.916 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 861031 | 51.889 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 923731 | 52.071 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 1014495 | 52.908 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 1347428 | 52.950 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 1150927 | 53.120 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 617114 | 50.135 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 603476 | 49.641 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 991424 | 52.515 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 233963 | 50.206 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.658 | 146 | 545563 | 50.554 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 30632 | 48.006 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 316225 | 47.003 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 199957 | 47.679 | ug/l | | 98 |
| 95) Naphthalene | 15.145 | 128 | 499422 | 46.618 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 272296 | 46.727 | ug/l | | 99 |

Sample Results: **VY023407.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023407.D
Acq On : 09 Oct 2025 08:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 10 04:19:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

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

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

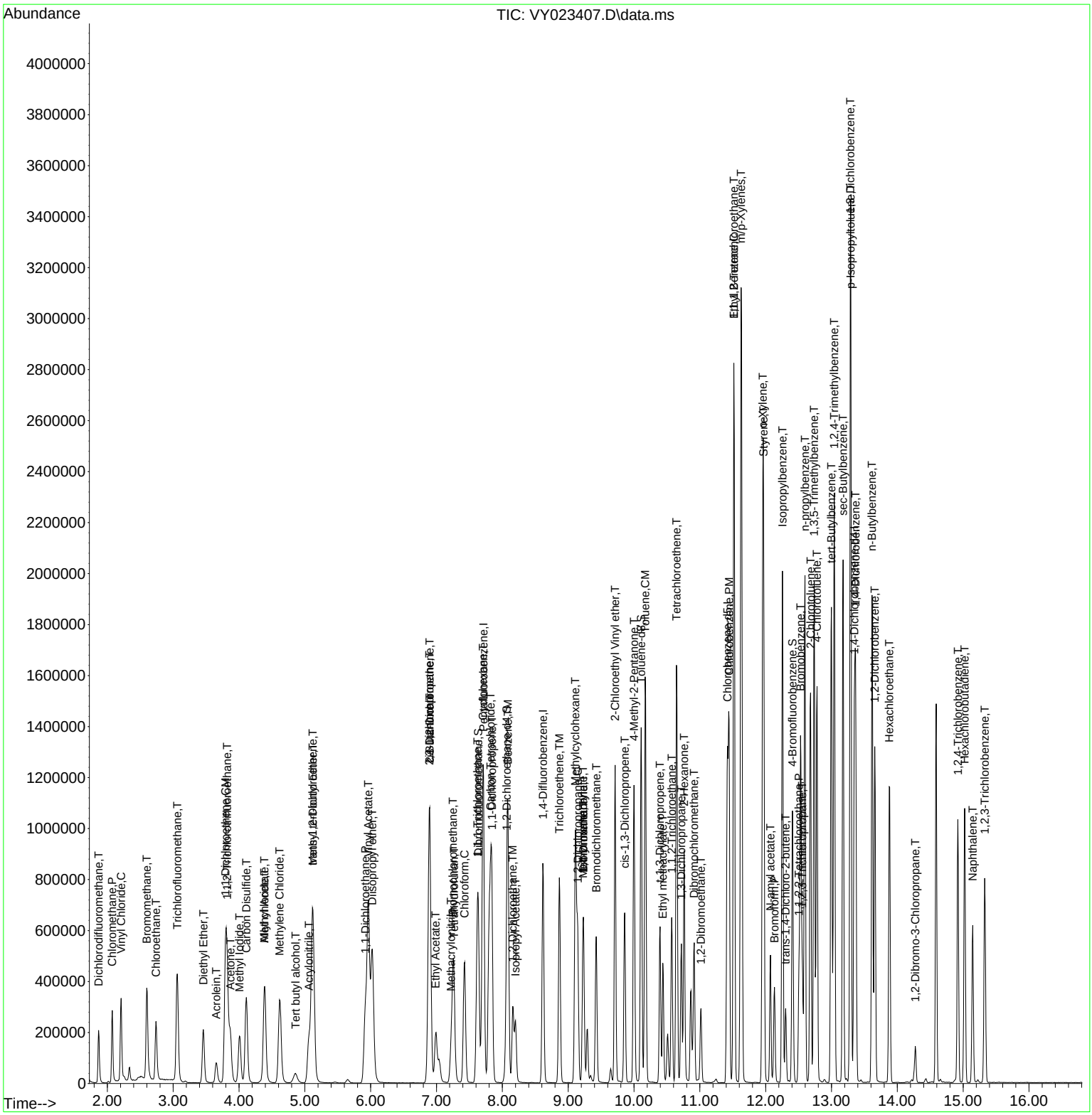
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023407.D
Acq On : 09 Oct 2025 08:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

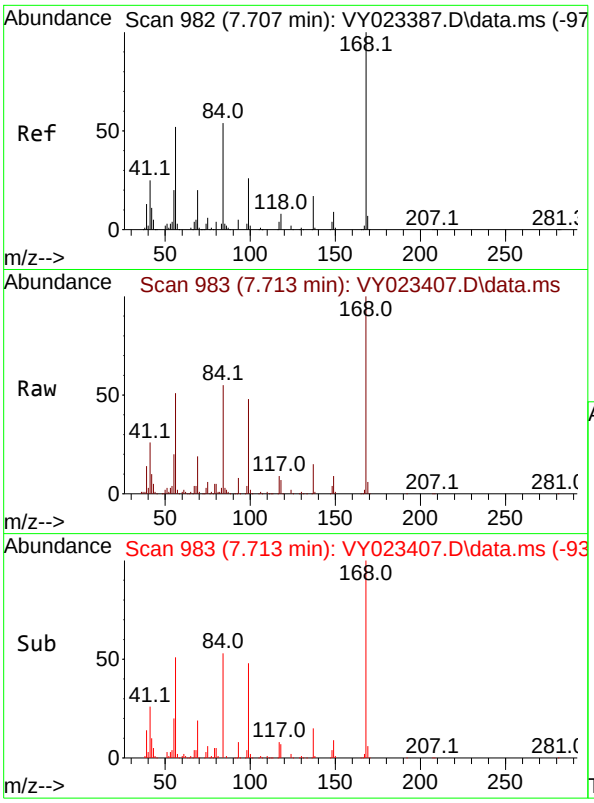
Quant Time: Oct 10 04:19:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

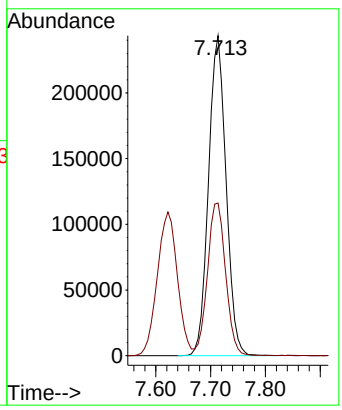





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:168 Resp: 54004

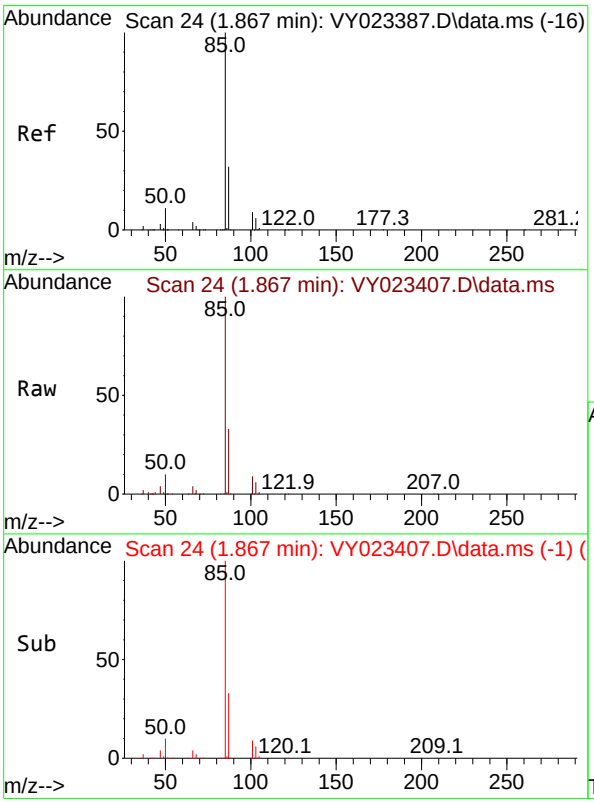
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 47.7 | 39.7 | 59.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

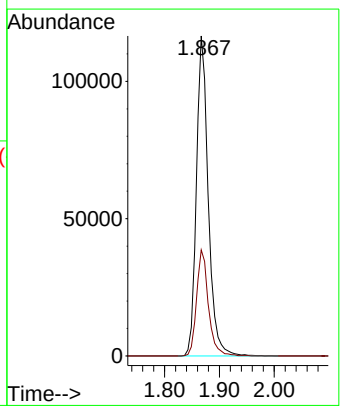
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

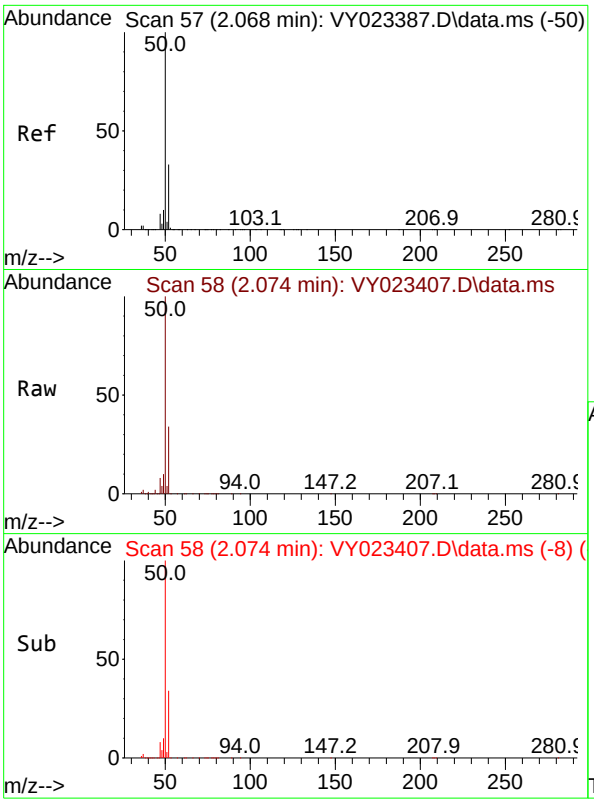



#2
Dichlorodifluoromethane
Concen: 45.165 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 85 Resp: 175562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.1 | 16.0 | 47.9 |

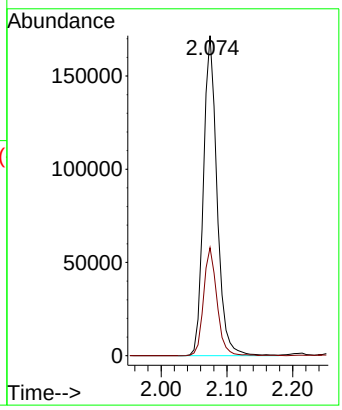





#3
Chloromethane
Concen: 46.626 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 50 Resp: 24689

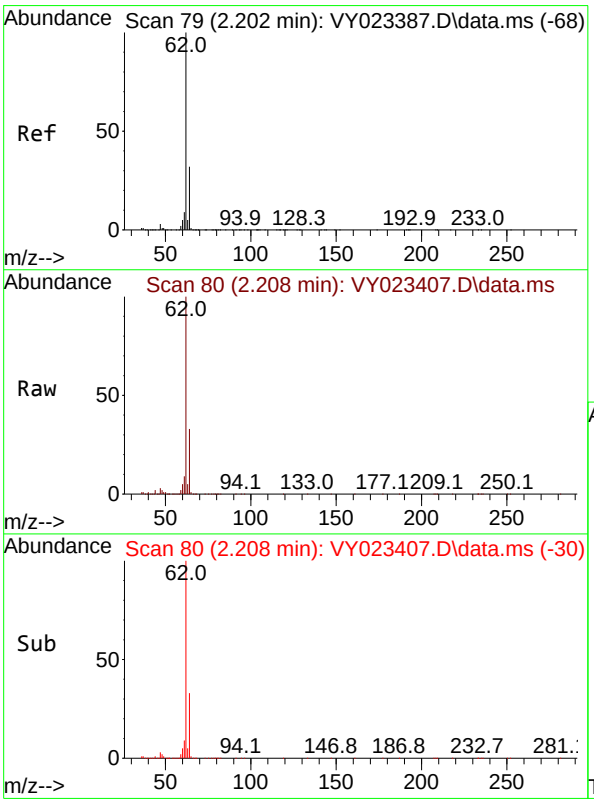
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.7 | 26.2 | 39.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

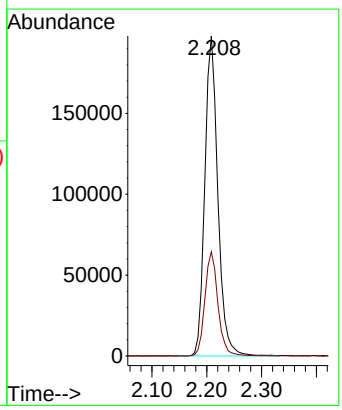
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

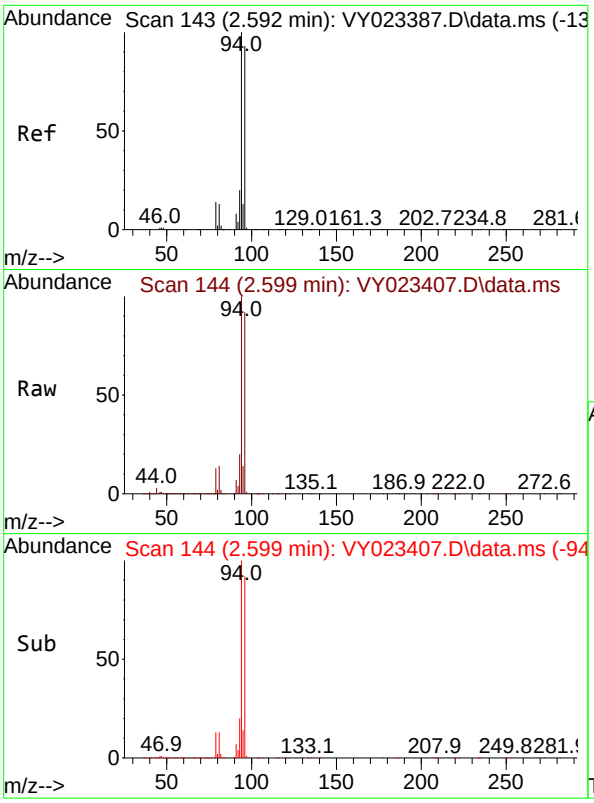



#4
Vinyl Chloride
Concen: 47.203 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 62 Resp: 325565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.5 | 25.8 | 38.8 |

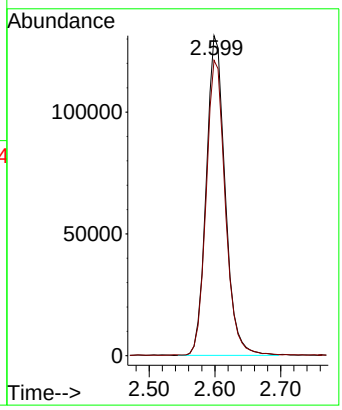





#5
Bromomethane
Concen: 45.352 ug/l
RT: 2.599 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 94 Resp: 26249

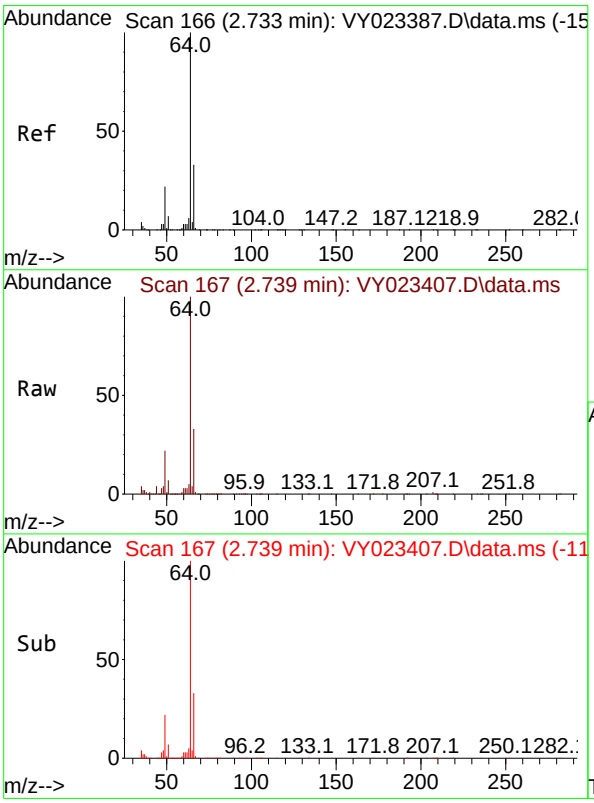
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.2 | 74.5 | 111.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

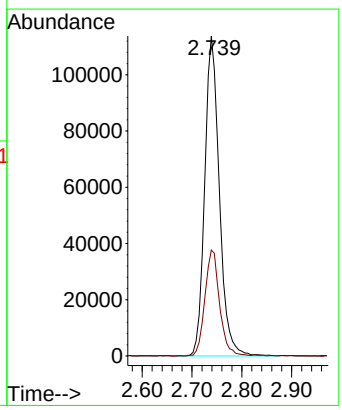
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

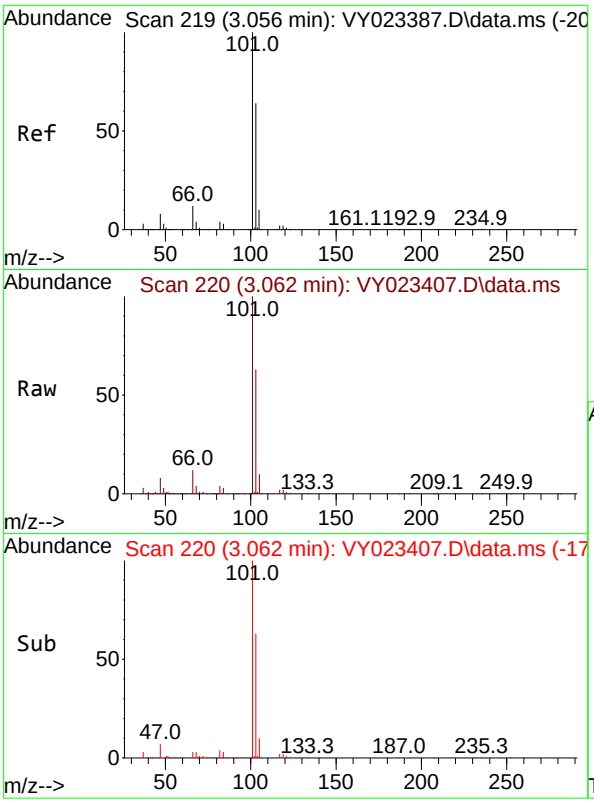



#6
Chloroethane
Concen: 49.279 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 64 Resp: 231682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.0 | 26.2 | 39.4 |

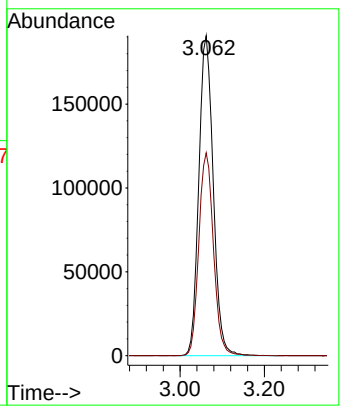





#7
Trichlorofluoromethane
Concen: 47.366 ug/l
RT: 3.062 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:101 Resp: 45360

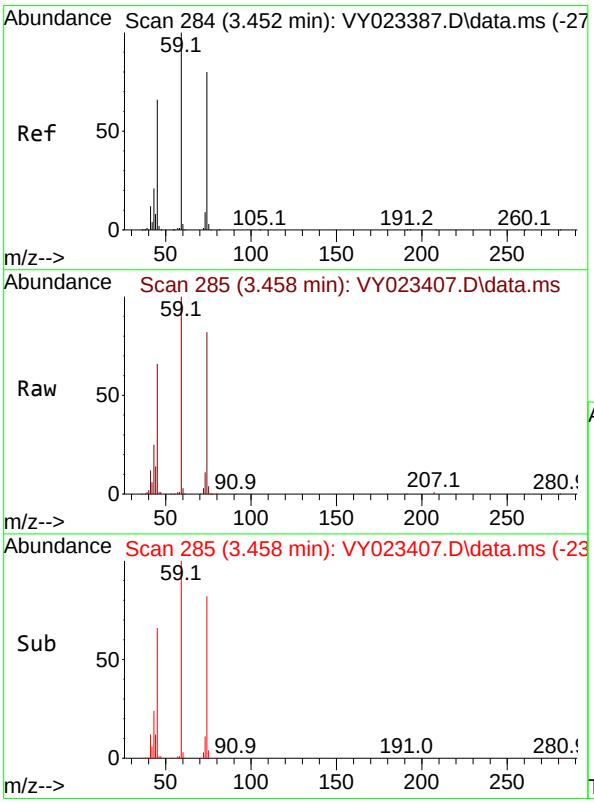
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.4 | 51.3 | 76.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

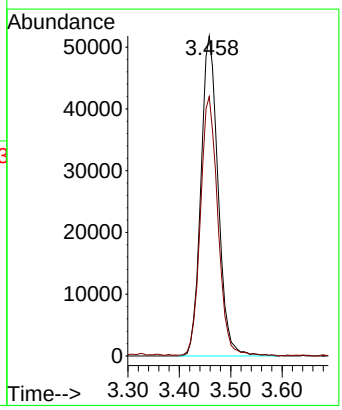
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

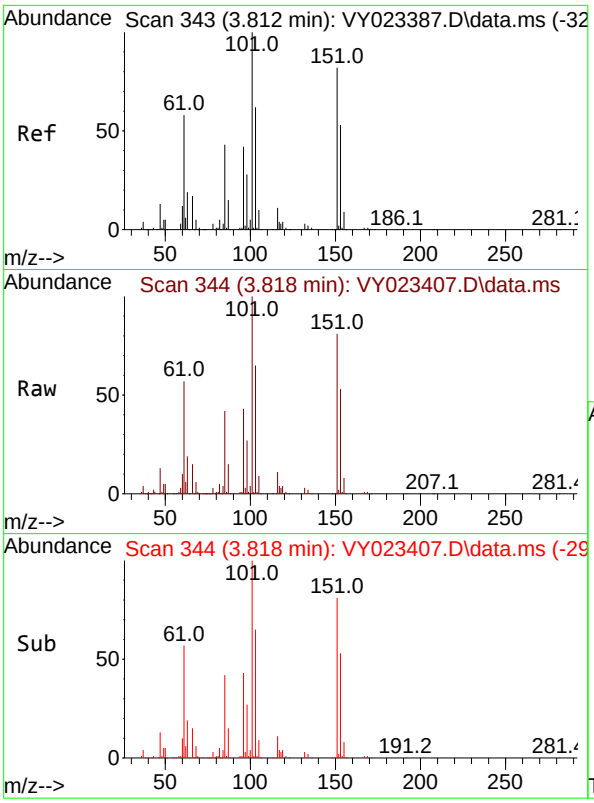



#8
Diethyl Ether
Concen: 47.924 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 74 Resp: 119924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 82.7 | 39.9 | 119.7 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.377 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

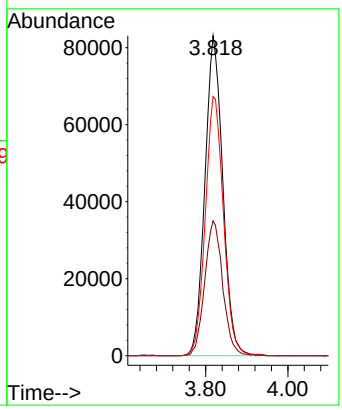
Tgt Ion:101 Resp: 25034

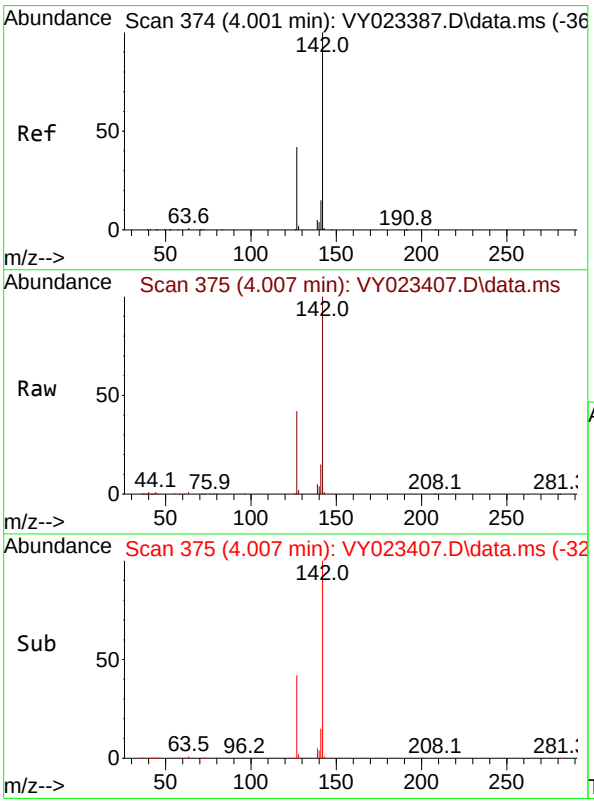
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 42.7 | 34.6 | 51.8 |
| 151 | 82.8 | 67.0 | 100.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

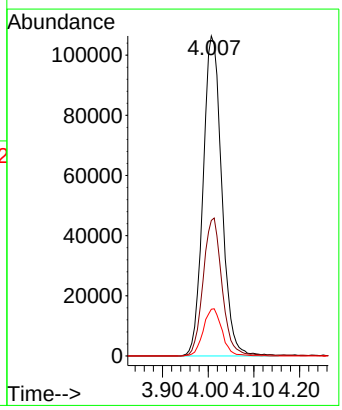


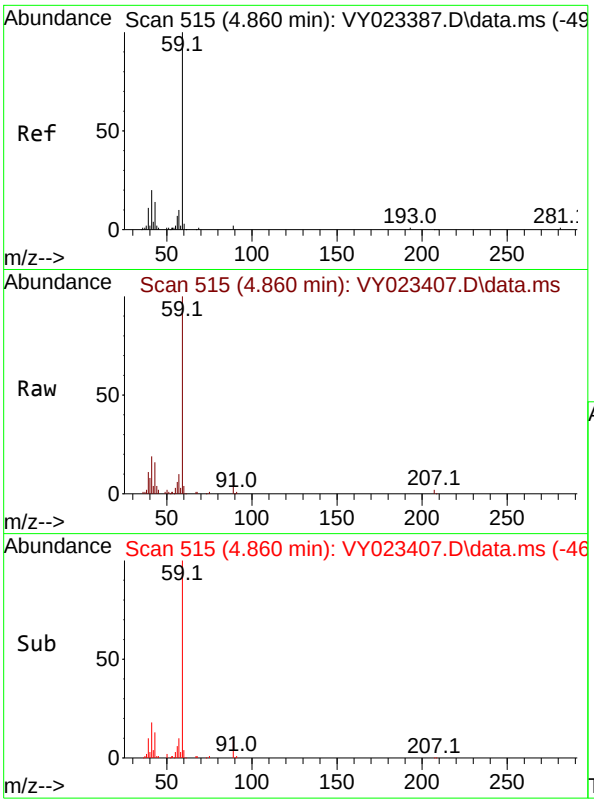




#10
Methyl Iodide
Concen: 54.708 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:142 Resp: 302659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.6 | 34.8 | 52.2 |
| 141 | 14.8 | 11.6 | 17.4 |

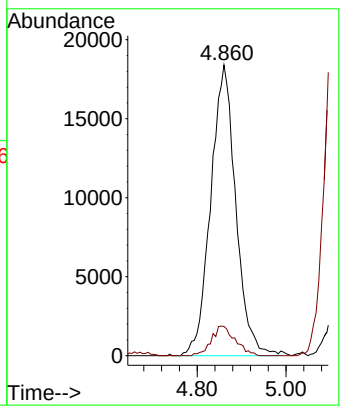





#11
Tert butyl alcohol
Concen: 214.498 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 59 Resp: 7206

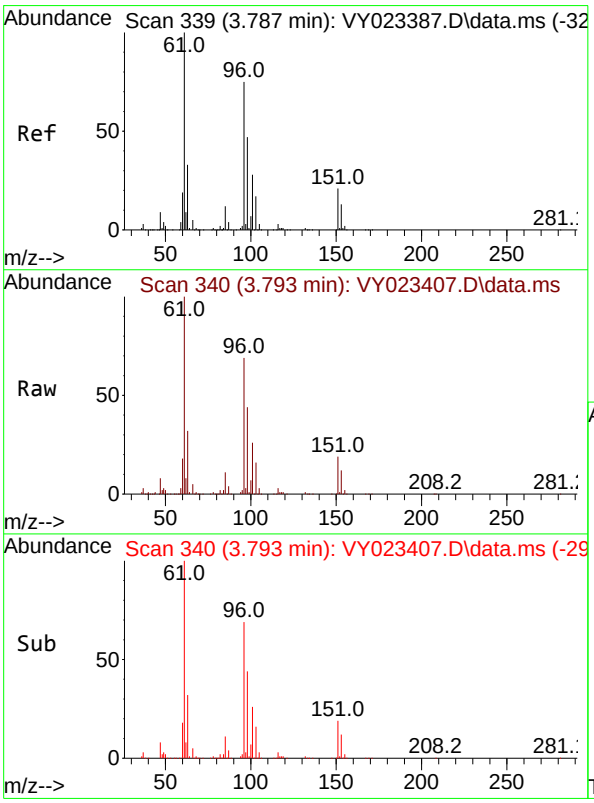
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.6 | 8.3 | 12.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

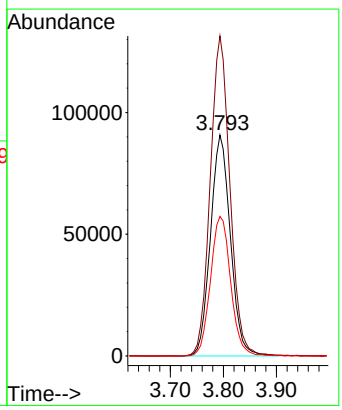
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

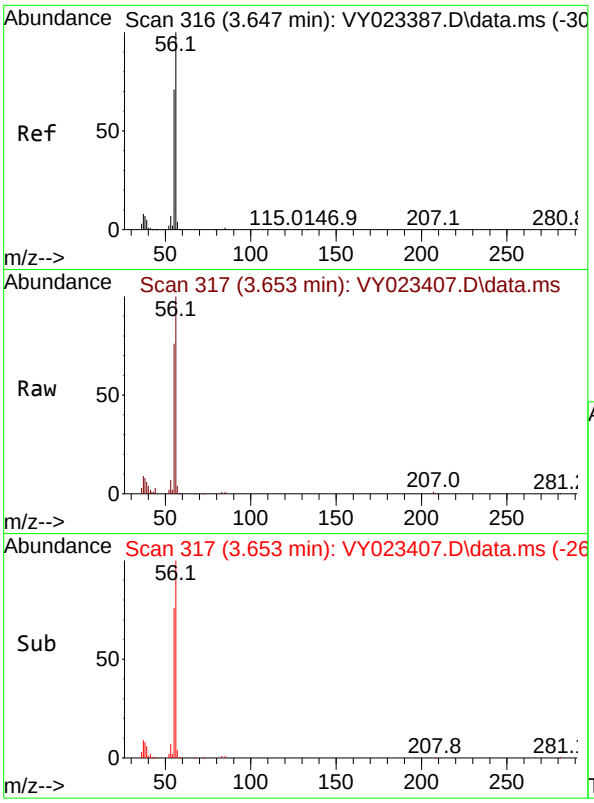



#12
1,1-Dichloroethene
Concen: 49.265 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 96 Resp: 237323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.8 | 106.7 | 160.1 |
| 98 | 63.1 | 50.2 | 75.4 |






#13
Acrolein
Concen: 197.974 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 56 Resp: 9398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.5 | 56.1 | 84.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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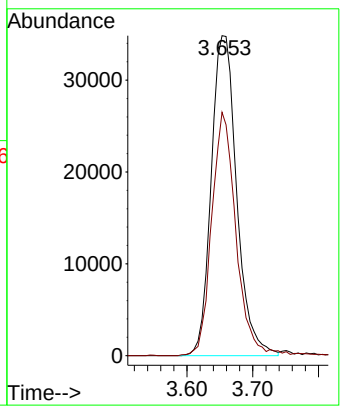
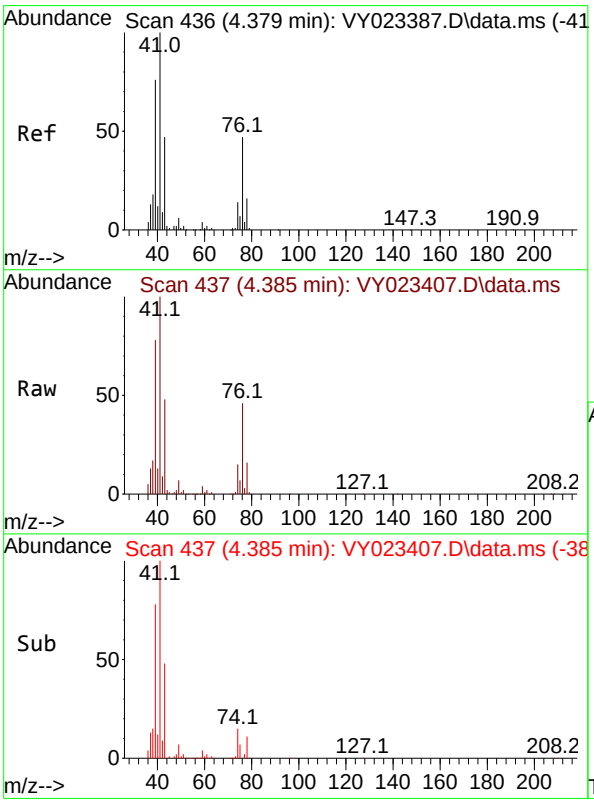
Supervised By :Semsettin Yesilyurt 10/10/2025

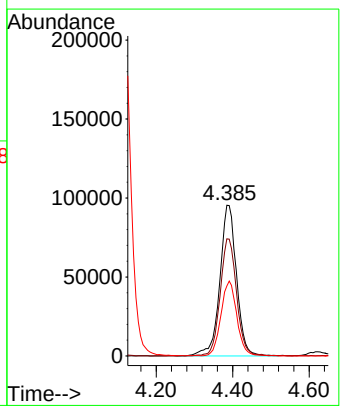


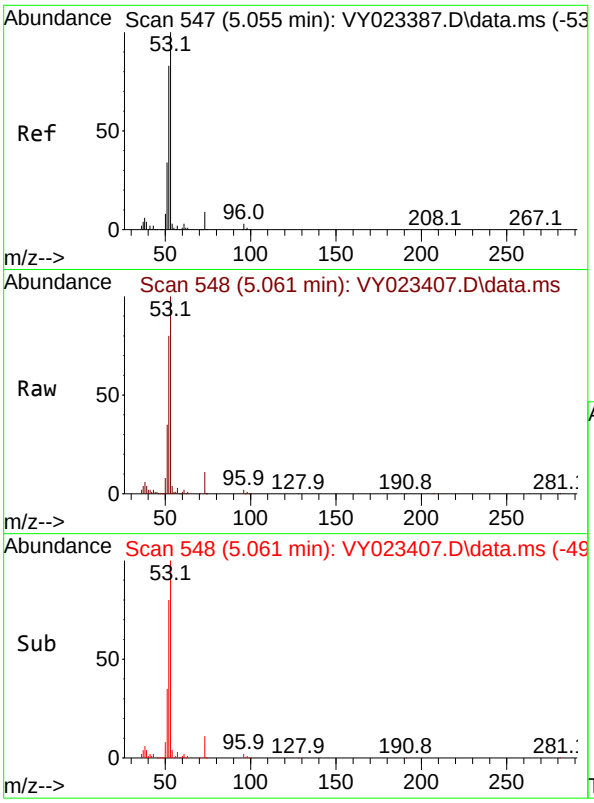




#14
Allyl chloride
Concen: 49.309 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 41 Resp: 289487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 76.6 | 59.9 | 89.9 |
| 76 | 47.0 | 38.0 | 57.0 |

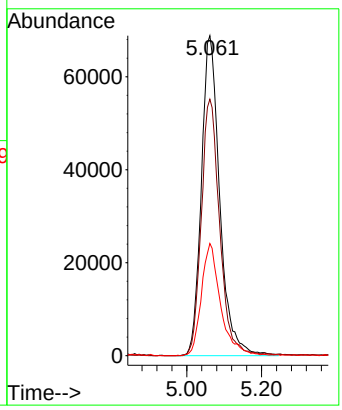





#15
Acrylonitrile
Concen: 245.521 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 53 Resp: 23512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.0 | 64.6 | 97.0 |
| 51 | 36.6 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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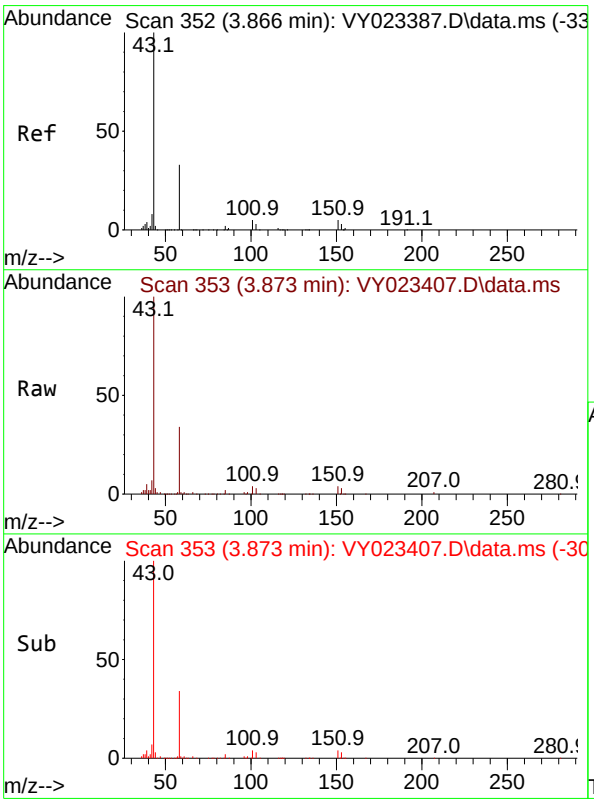
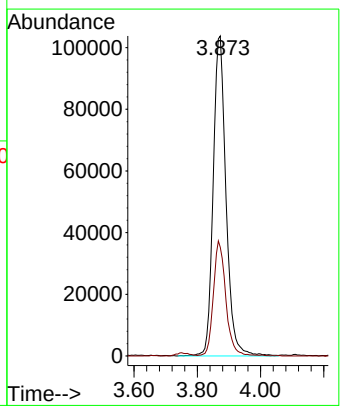
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

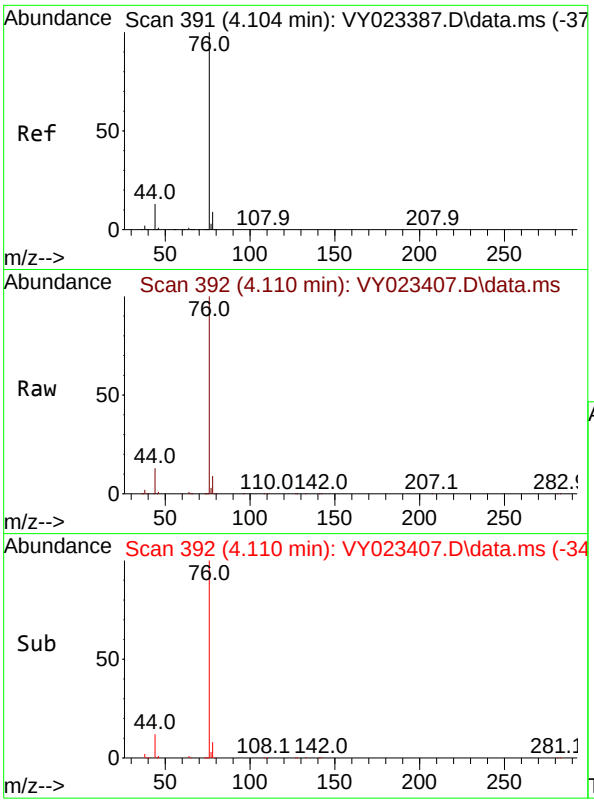



#16
Acetone
Concen: 272.492 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 43 Resp: 292955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.8 | 27.7 | 41.5 |






#17
Carbon Disulfide
Concen: 50.177 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 76 Resp: 69181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 7.3 | 10.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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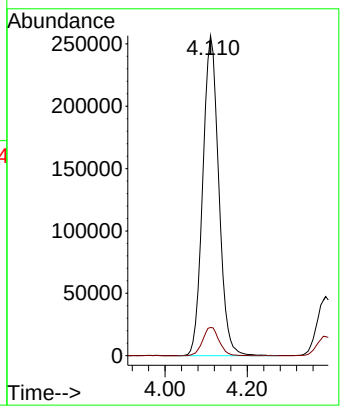
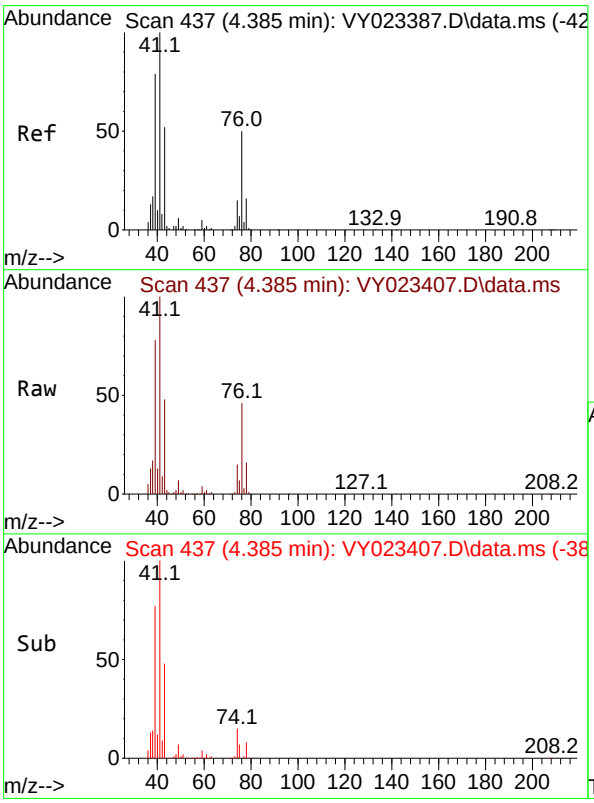
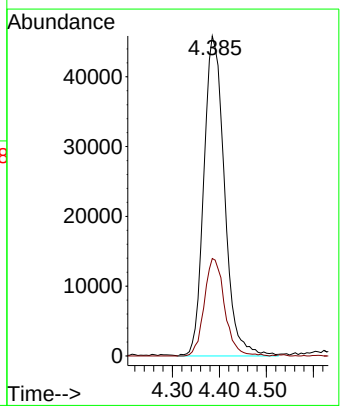


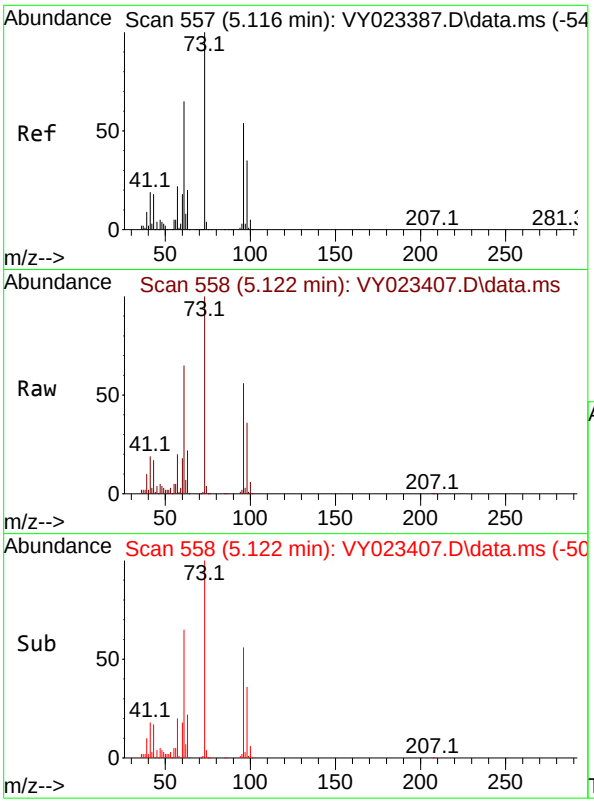




#18
Methyl Acetate
Concen: 49.553 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 43 Resp: 139750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 30.0 | 24.2 | 36.4 |

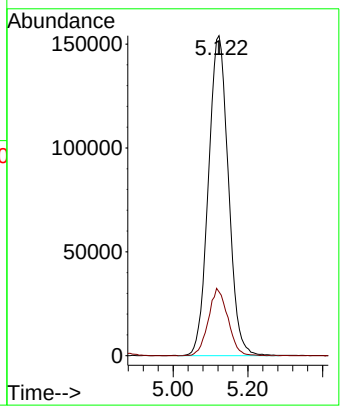





#19
Methyl tert-butyl Ether
Concen: 49.411 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 73 Resp: 57207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.0 | 17.4 | 26.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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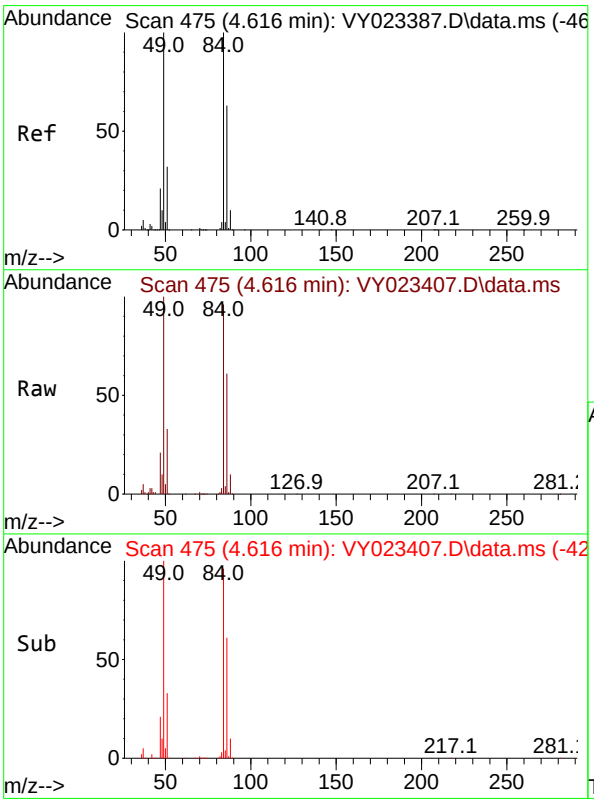
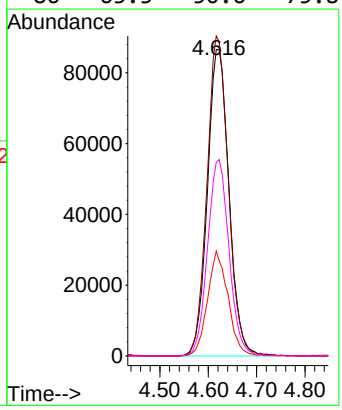
Supervised By :Semsettin Yesilyurt 10/10/2025

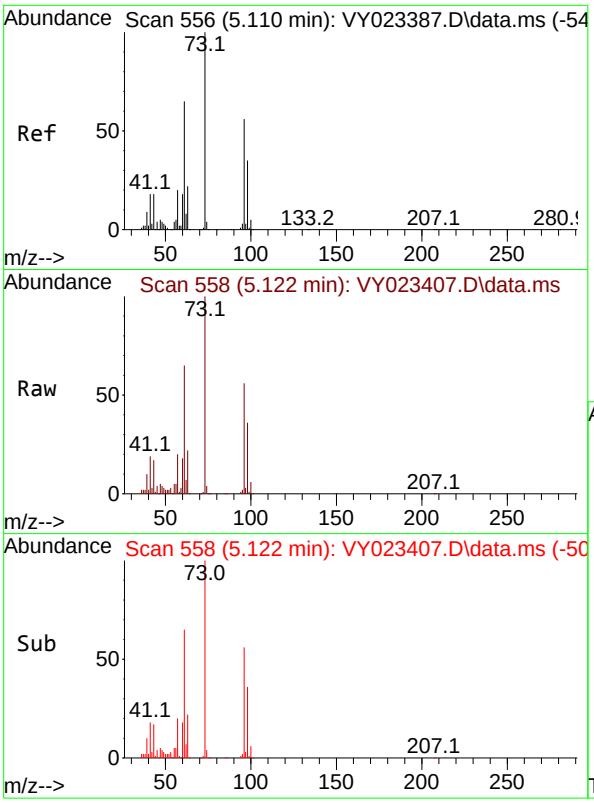



#20
Methylene Chloride
Concen: 46.200 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 84 Resp: 268581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 104.4 | 80.2 | 120.4 |
| 51 | 34.2 | 25.9 | 38.9 |
| 86 | 63.3 | 50.6 | 75.8 |

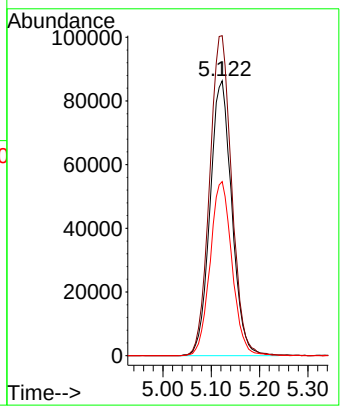





#21
trans-1,2-Dichloroethene
Concen: 51.043 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 96 Resp: 27071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 116.4 | 92.7 | 139.1 |
| 98 | 63.3 | 49.7 | 74.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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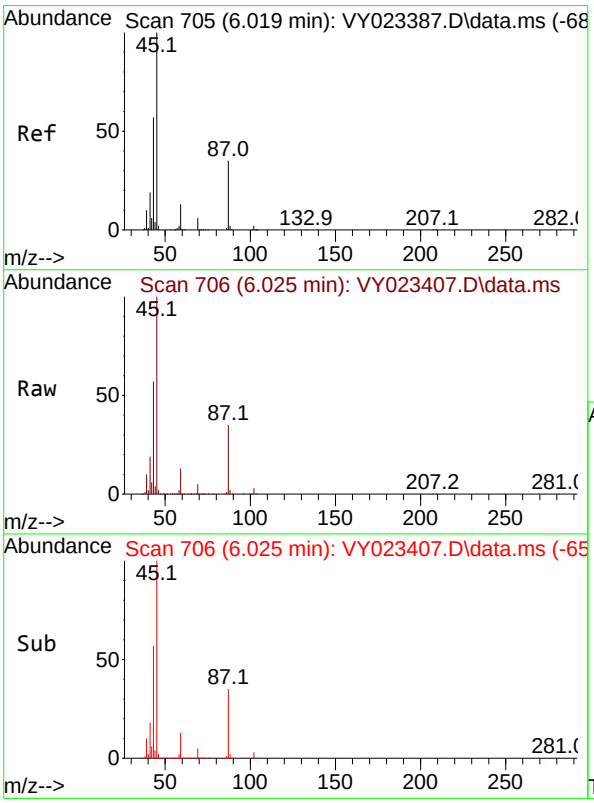
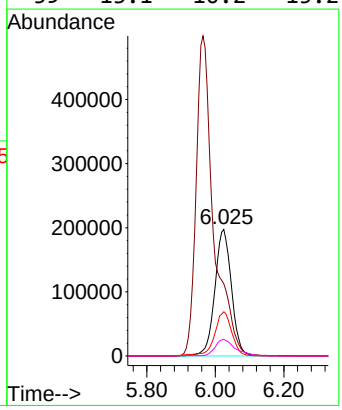
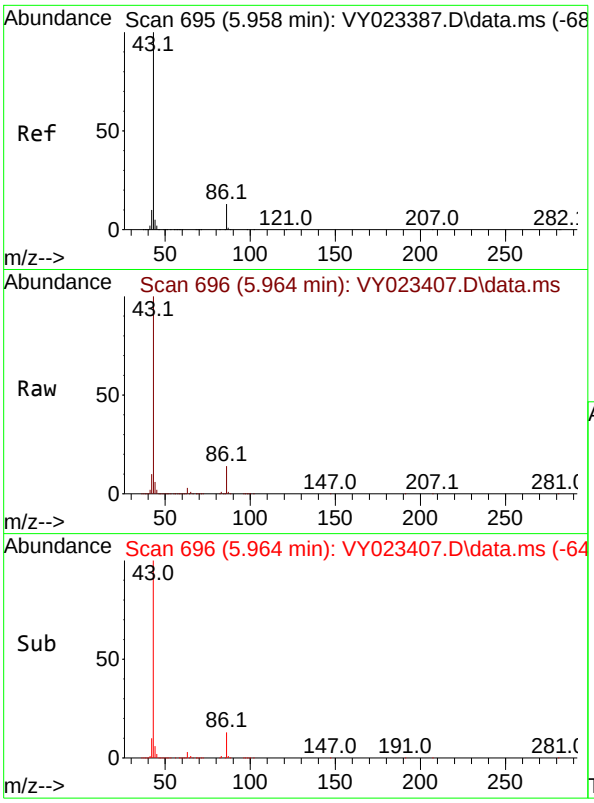



#22
Diisopropyl ether
Concen: 50.913 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 45 Resp: 661171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 56.9 | 45.6 | 68.4 |
| 87 | 34.9 | 28.1 | 42.1 |
| 59 | 13.1 | 10.2 | 15.2 |

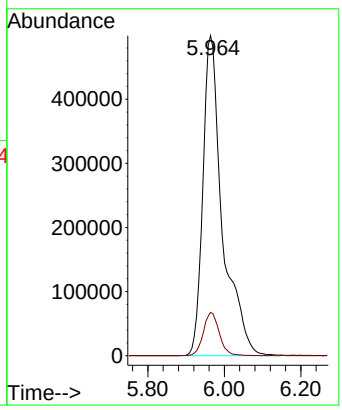





#23
Vinyl Acetate
Concen: 252.202 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 43 Resp: 177277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 13.5 | 10.6 | 15.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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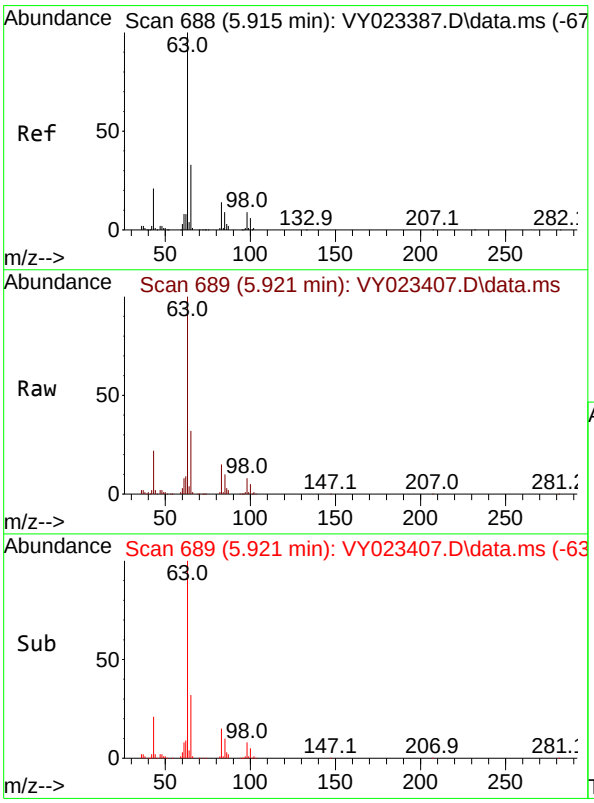
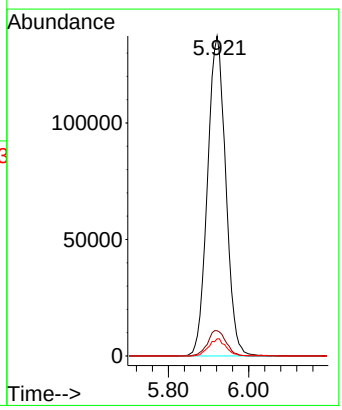
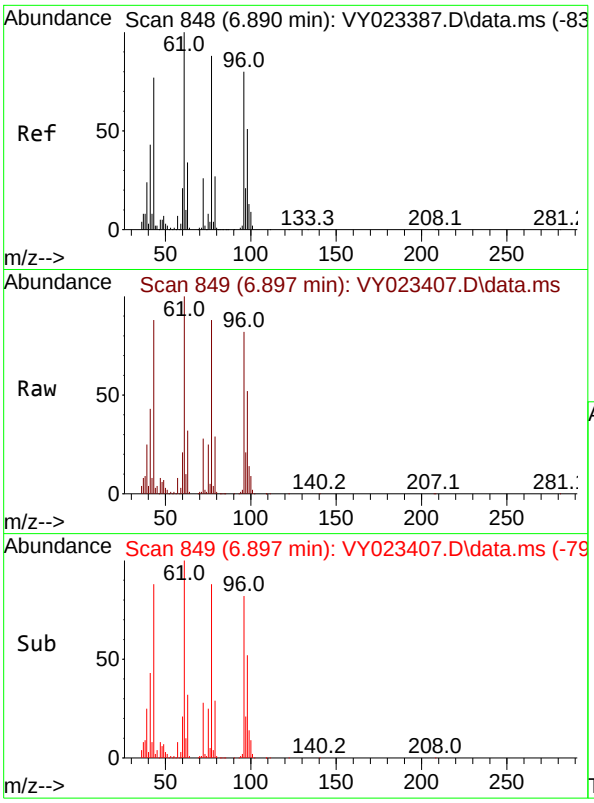



#24
1,1-Dichloroethane
Concen: 50.397 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 63 Resp: 433528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.9 | 4.3 | 13.1 |
| 100 | 5.3 | 2.8 | 8.4 |






#25
2-Butanone
Concen: 249.190 ug/l
RT: 6.897 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 43 Resp: 32706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 31.6 | 27.4 | 41.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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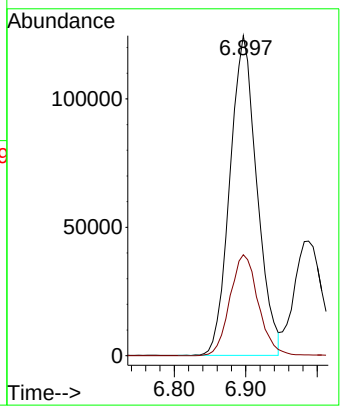
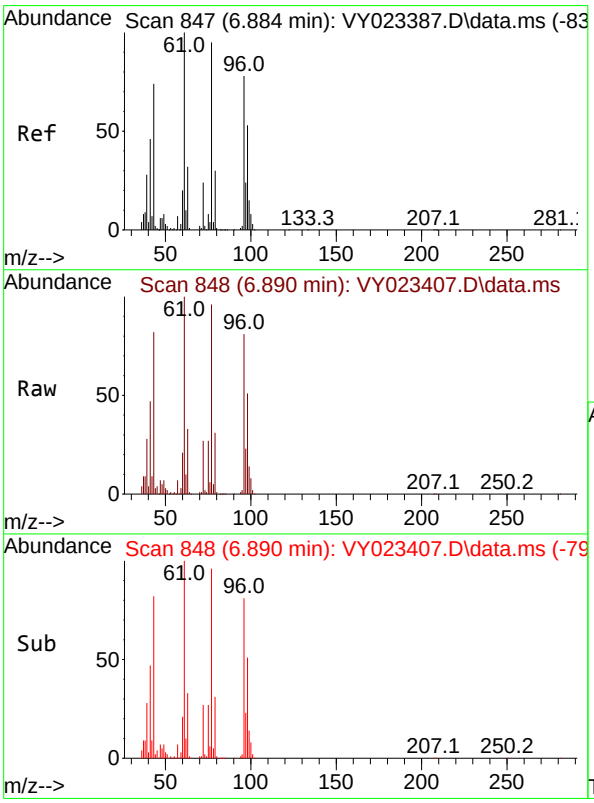
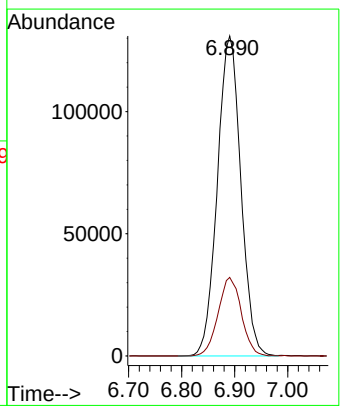


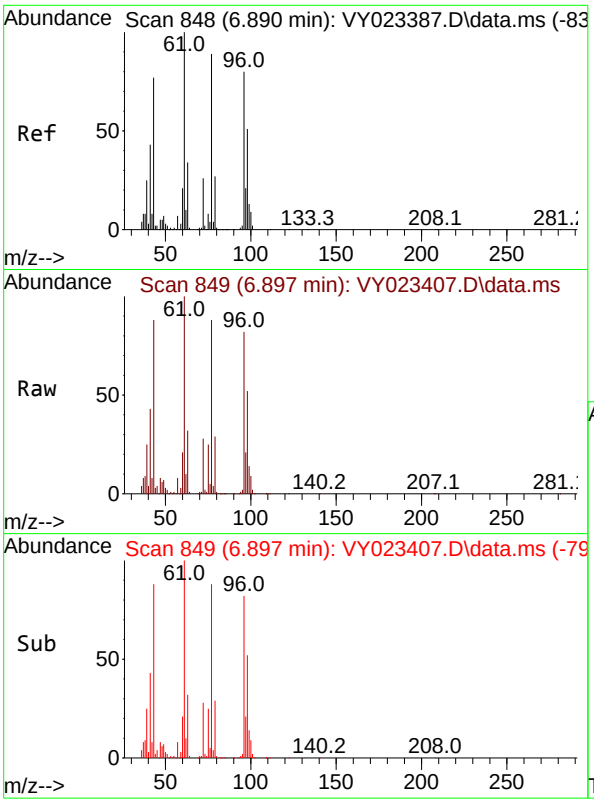




#26
2,2-Dichloropropane
Concen: 51.041 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 77 Resp: 402884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.3 | 12.1 | 36.3 |






#27
cis-1,2-Dichloroethene
Concen: 51.065 ug/l
RT: 6.897 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 96 Resp: 31284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 126.1 | 0.0 | 258.2 |
| 98 | 64.8 | 0.0 | 132.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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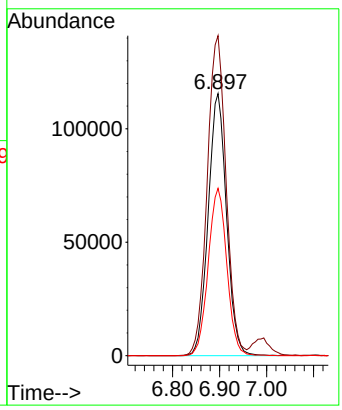
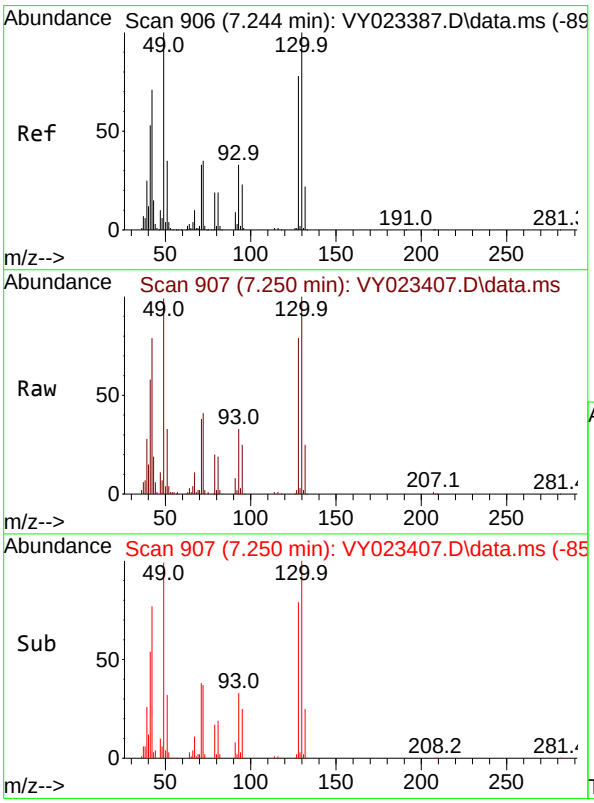
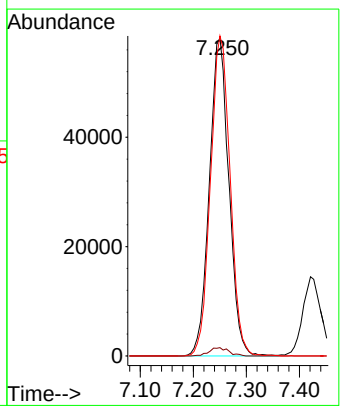


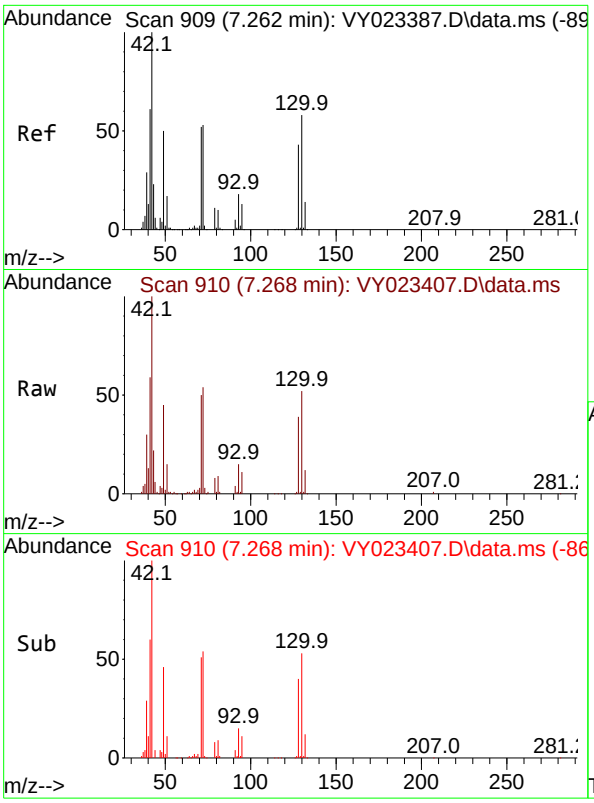




#28
Bromochloromethane
Concen: 46.377 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 49 Resp: 148933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.6 | 0.0 | 5.6 |
| 130 | 100.8 | 81.9 | 122.9 |

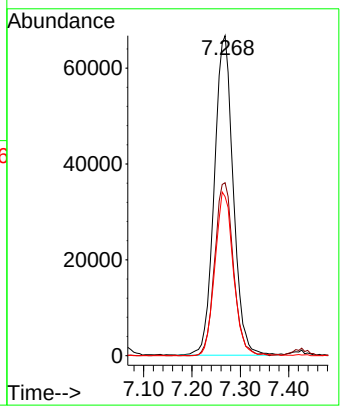





#29
Tetrahydrofuran
Concen: 243.679 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 42 Resp: 18136

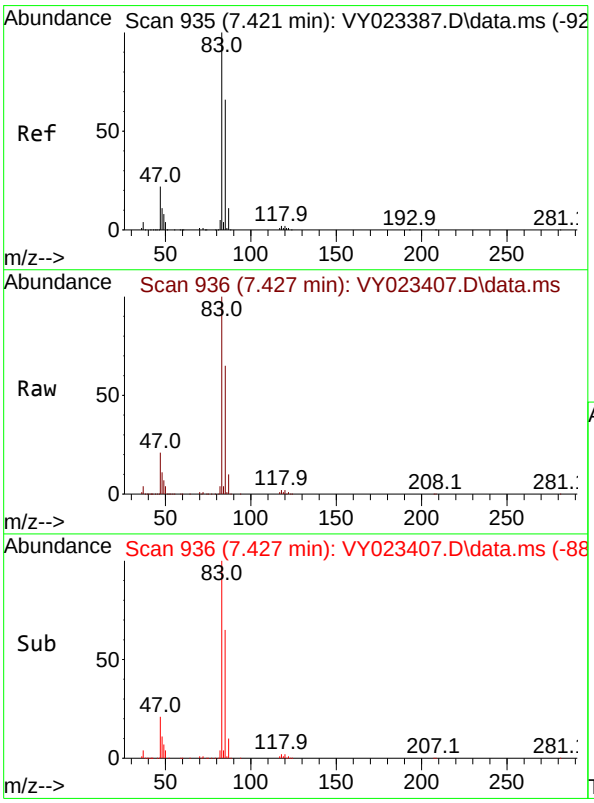
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 53.6 | 43.0 | 64.6 |
| 71 | 49.9 | 40.1 | 60.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

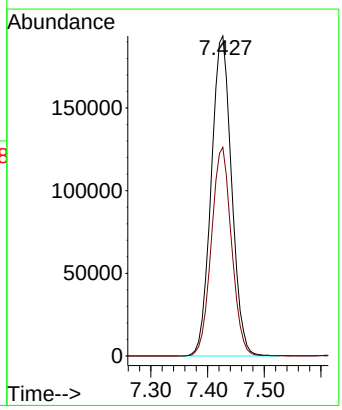
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

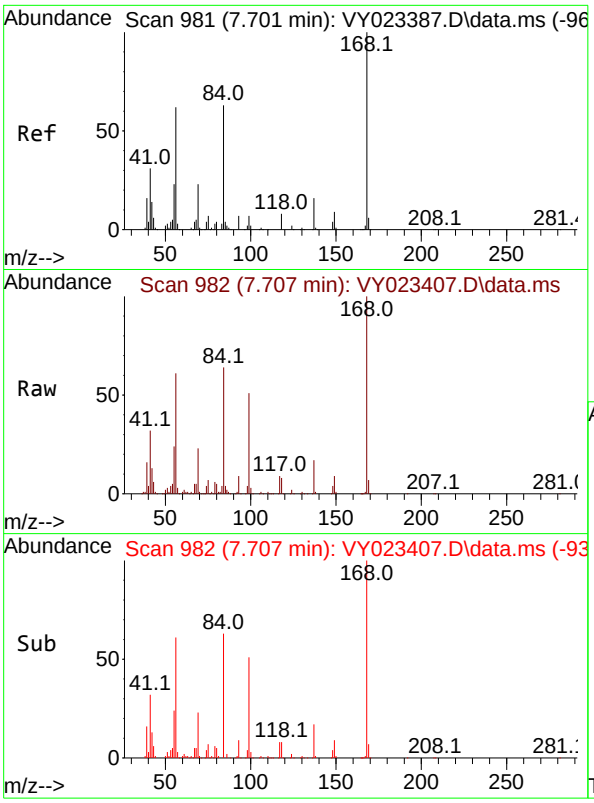



#30
Chloroform
Concen: 51.069 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 83 Resp: 482665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.2 | 52.5 | 78.7 |

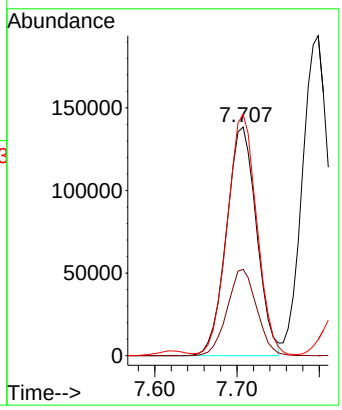





#31
Cyclohexane
Concen: 47.019 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 56 Resp: 35322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 37.8 | 30.0 | 45.0 |
| 84 | 103.6 | 81.2 | 121.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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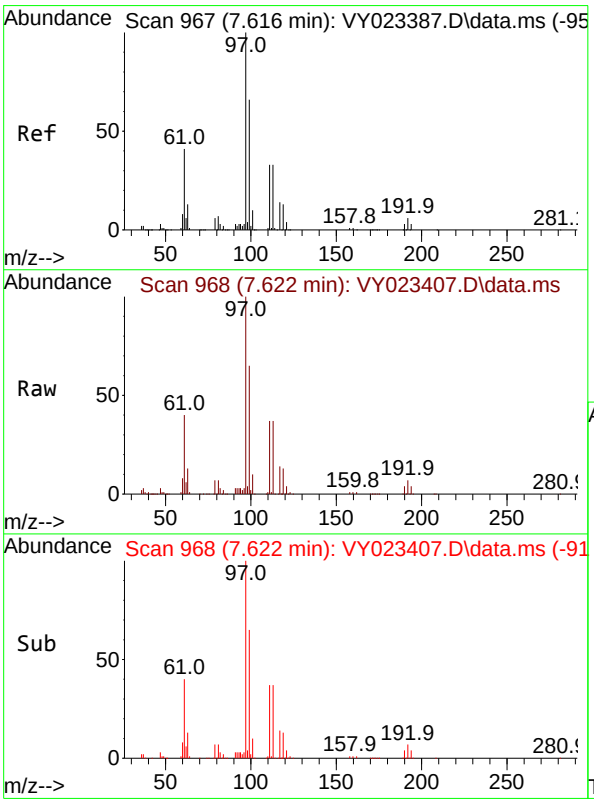
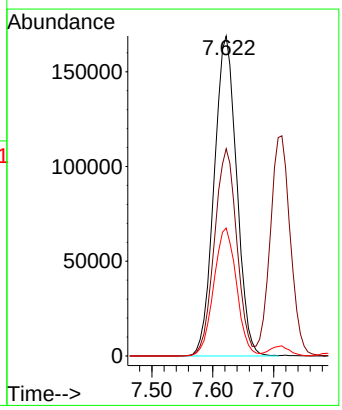
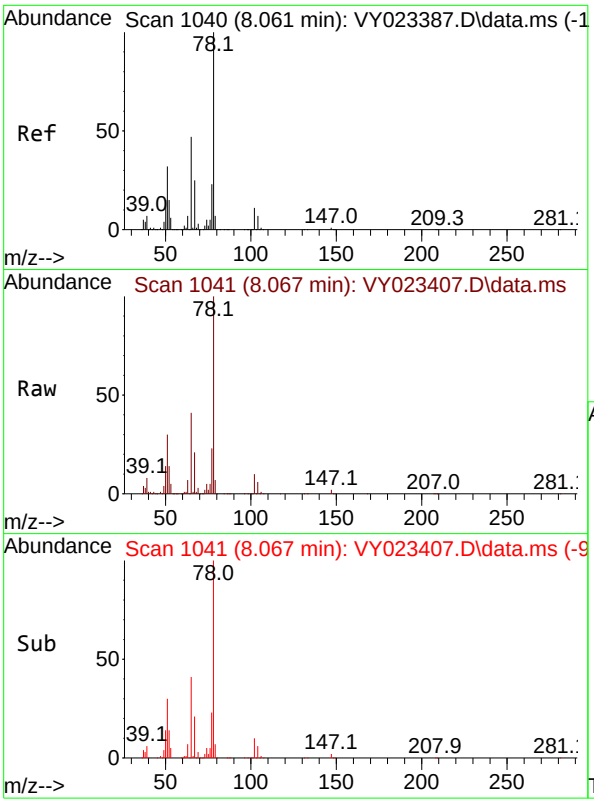



#32
1,1,1-Trichloroethane
Concen: 50.415 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 97 Resp: 433016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.3 | 51.4 | 77.2 |
| 61 | 40.5 | 31.9 | 47.9 |

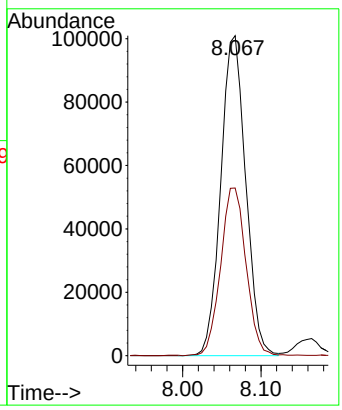





#33
1,2-Dichloroethane-d4
Concen: 49.431 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 65 Resp: 22322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.6 | 0.0 | 105.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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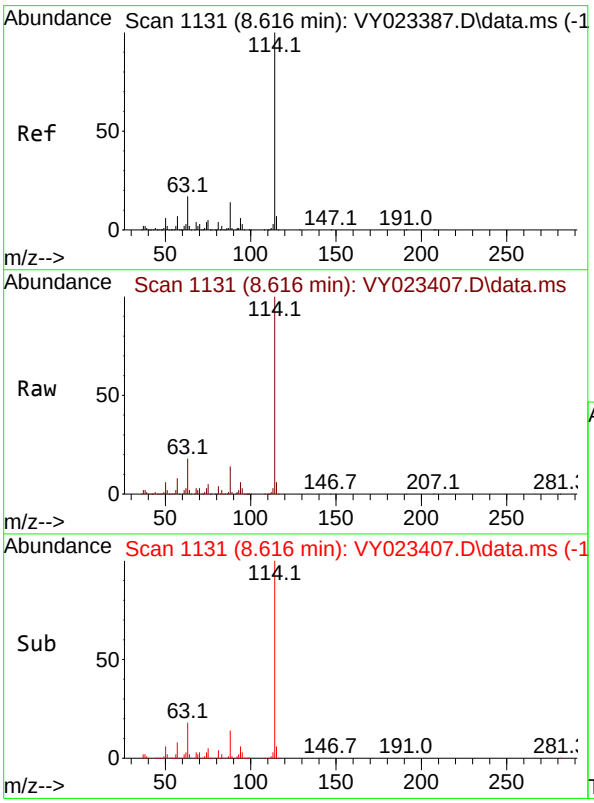
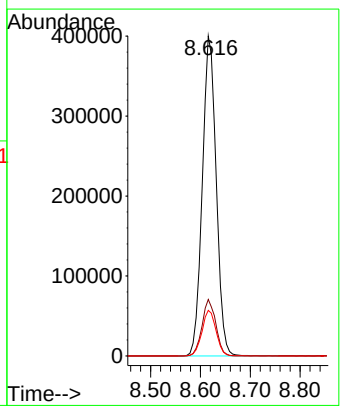
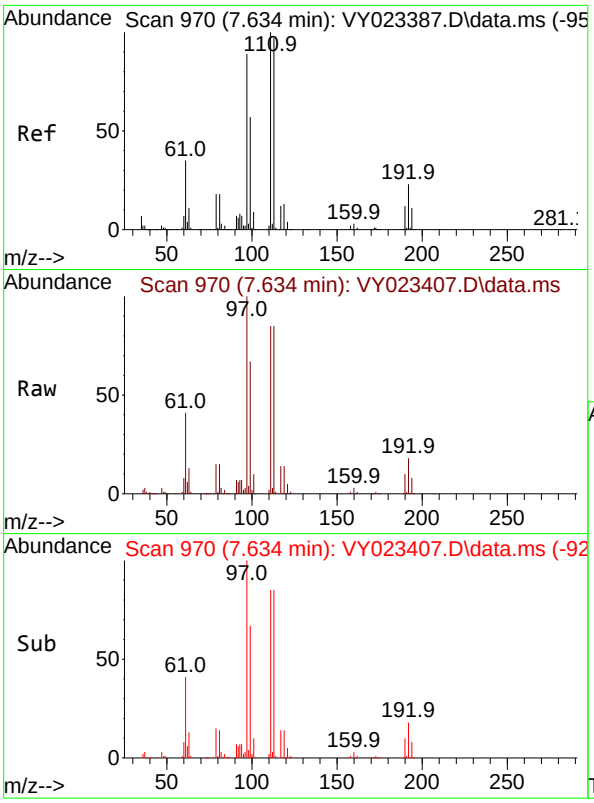



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:114 Resp: 774126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.7 | 0.0 | 34.2 |
| 88 | 14.3 | 0.0 | 28.4 |






#35
Dibromofluoromethane
Concen: 51.511 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:113 Resp: 24502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.9 | 81.8 | 122.6 |
| 192 | 21.7 | 18.0 | 27.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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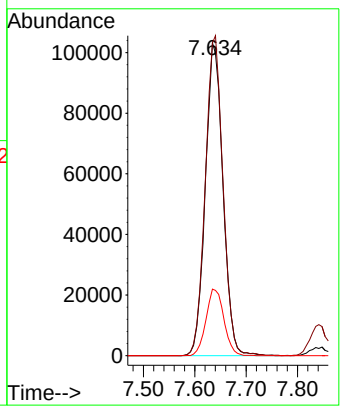
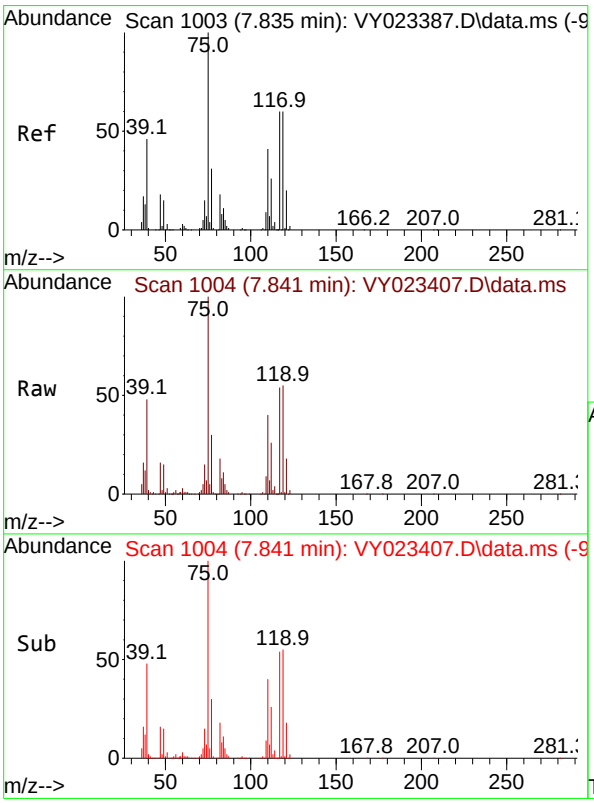
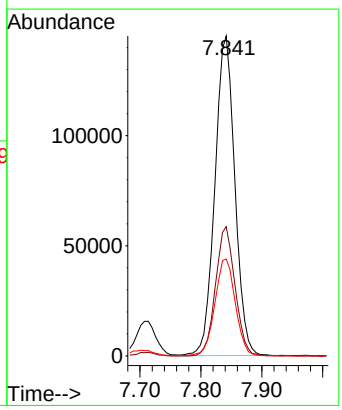


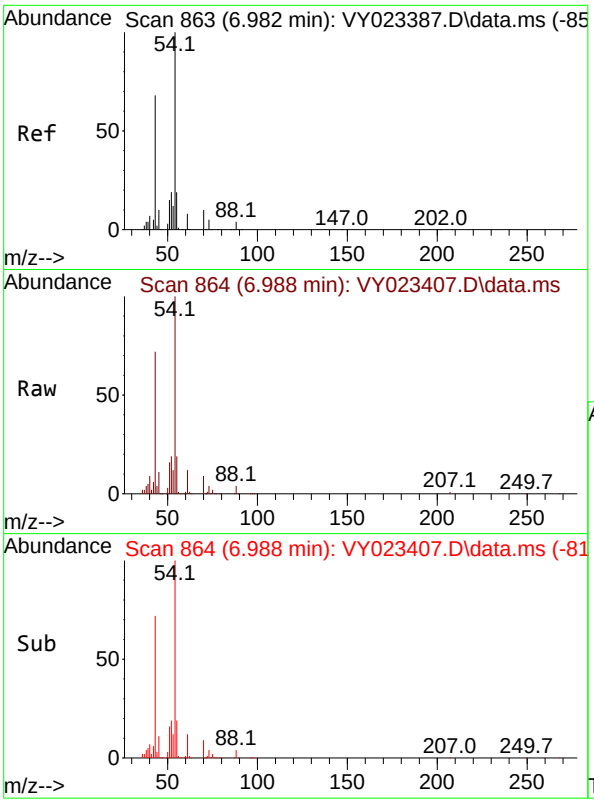




#36
1,1-Dichloropropene
Concen: 52.425 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 75 Resp: 330135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 39.6 | 19.9 | 59.7 |
| 77 | 31.3 | 25.0 | 37.6 |






#37
Ethyl Acetate
Concen: 51.143 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 43 Resp: 12759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.0 | 11.8 | 17.8 |
| 70 | 11.9 | 10.5 | 15.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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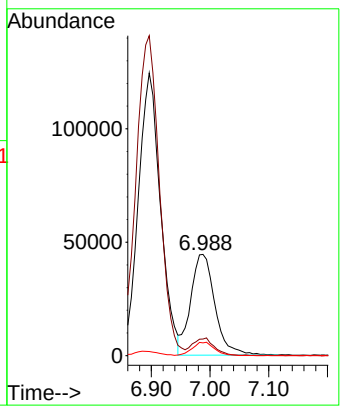
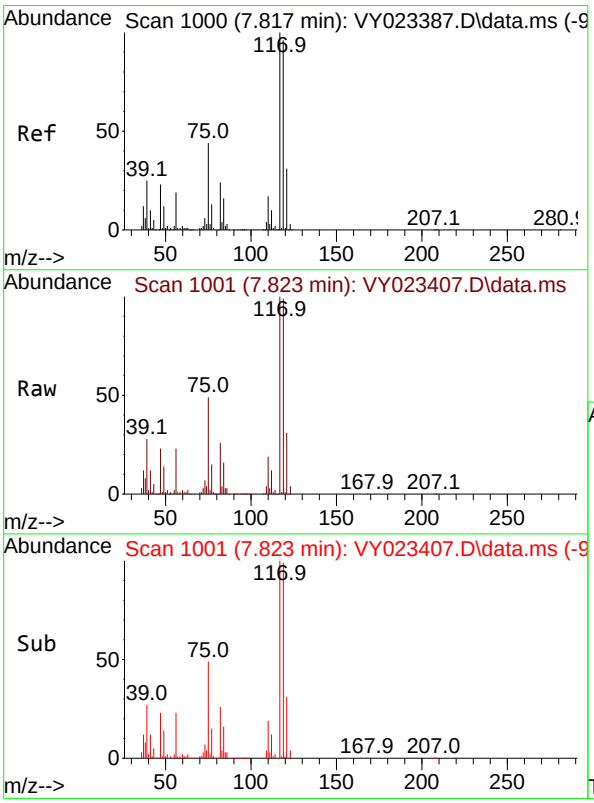
Supervised By :Semsettin Yesilyurt 10/10/2025

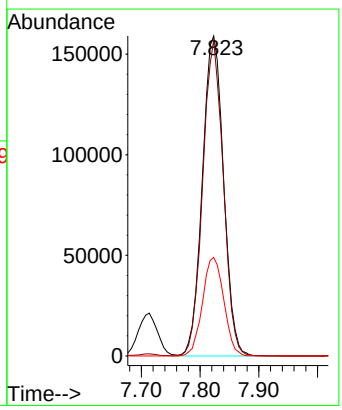


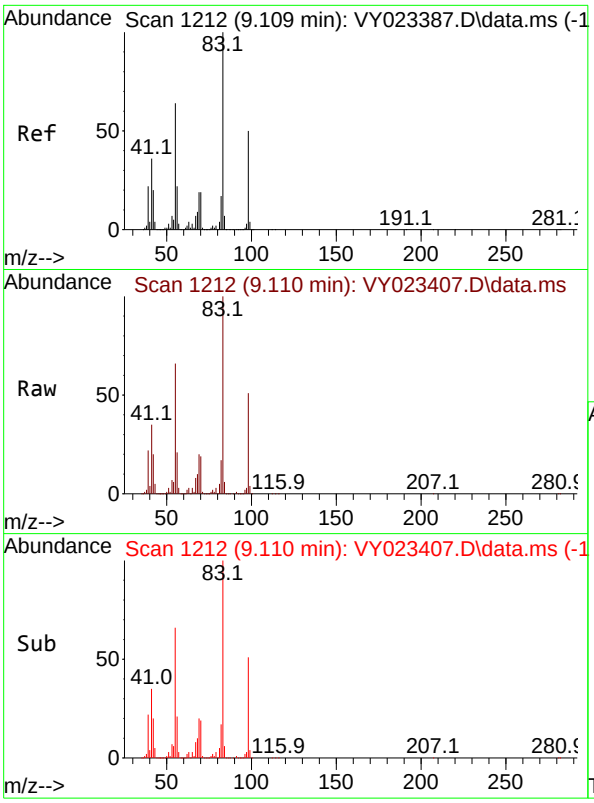




#38
Carbon Tetrachloride
Concen: 52.336 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:117 Resp: 399630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.7 | 76.8 | 115.2 |
| 121 | 30.8 | 24.5 | 36.7 |






#39
Methylcyclohexane
Concen: 51.695 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 83 Resp: 42386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 65.8 | 51.4 | 77.2 |
| 98 | 51.1 | 40.4 | 60.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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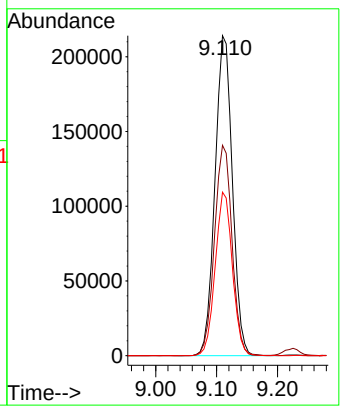
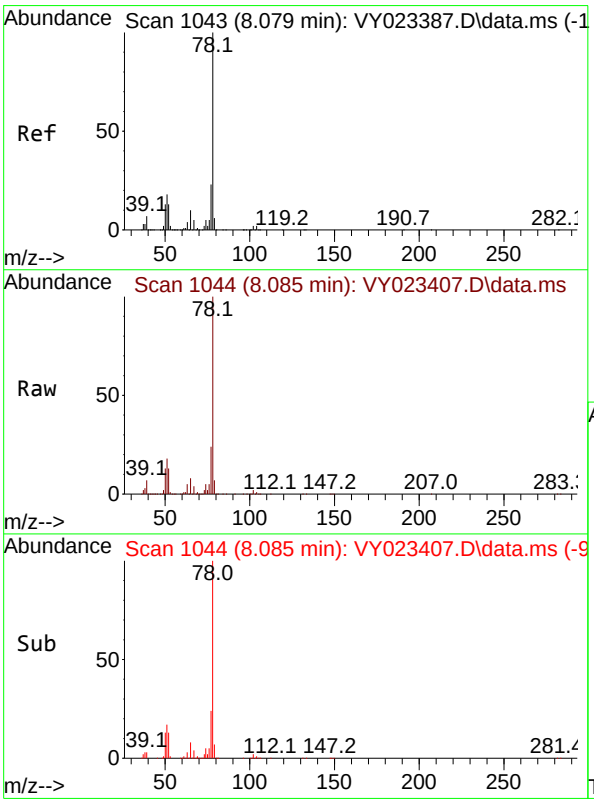
Supervised By :Semsettin Yesilyurt 10/10/2025

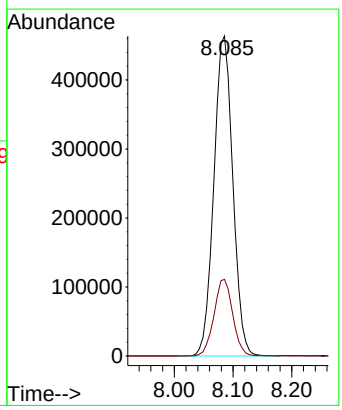


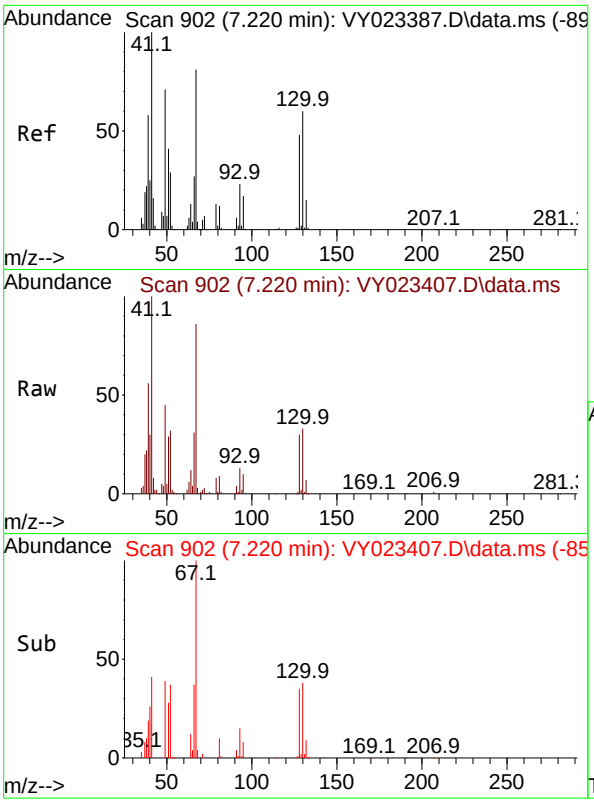




#40
Benzene
Concen: 52.081 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 78 Resp: 1038659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 18.3 | 27.5 |

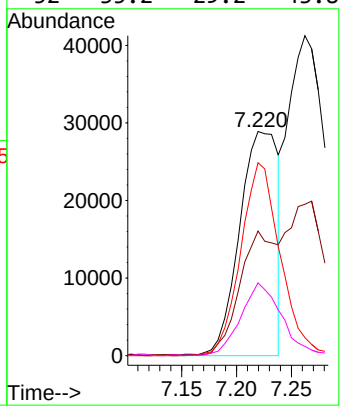





#41
Methacrylonitrile
Concen: 52.260 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 41 Resp: 7051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.3 | 52.2 | 78.4 |
| 67 | 89.2 | 74.9 | 112.3 |
| 52 | 35.2 | 29.2 | 43.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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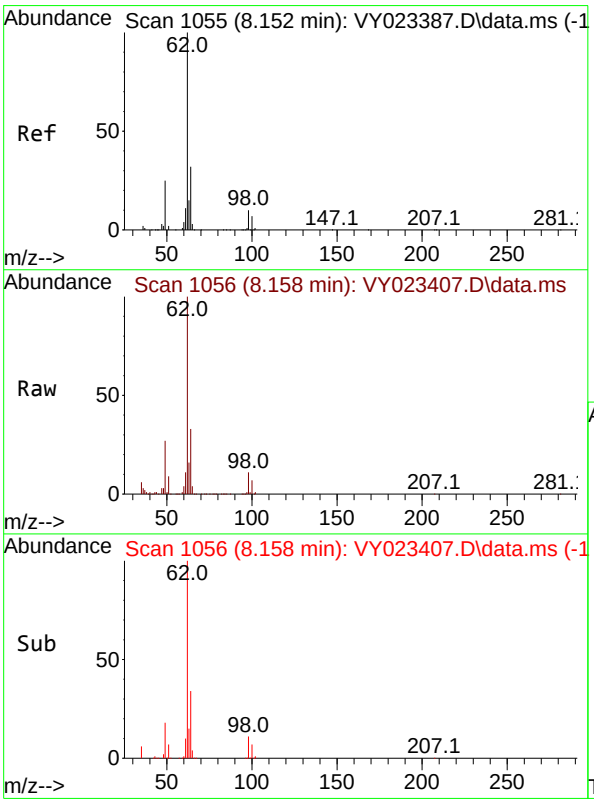
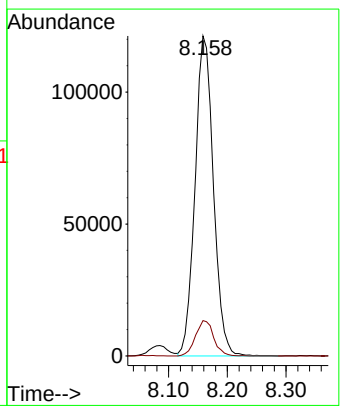
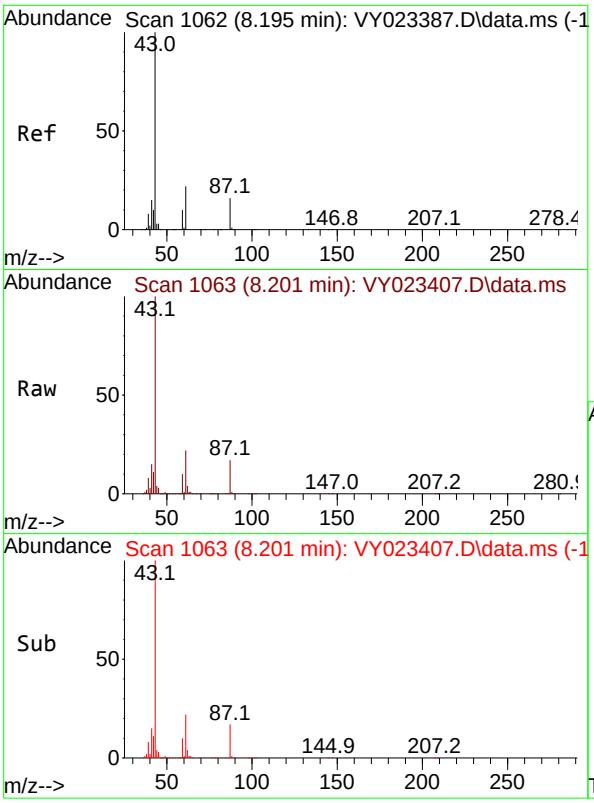



#42
1,2-Dichloroethane
Concen: 51.228 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 62 Resp: 263484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 11.0 | 0.0 | 21.6 |

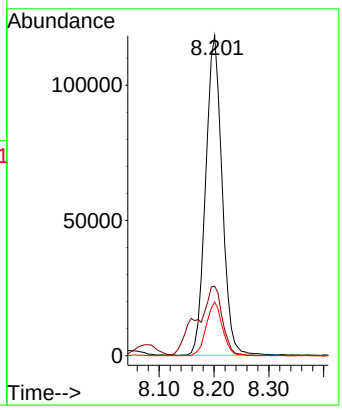





#43
Isopropyl Acetate
Concen: 49.451 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 43 Resp: 24600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 33.4 | 18.1 | 27.1# |
| 87 | 16.5 | 13.5 | 20.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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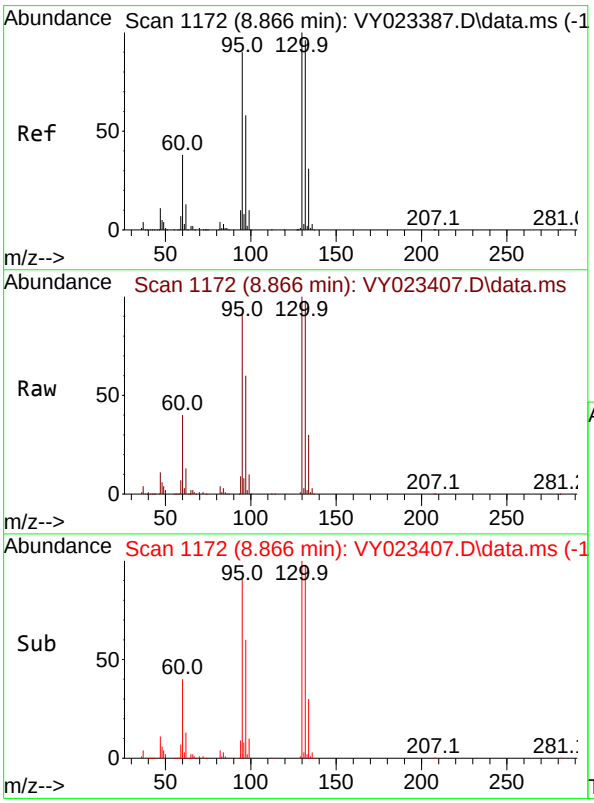
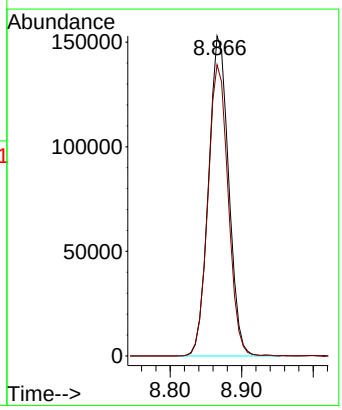
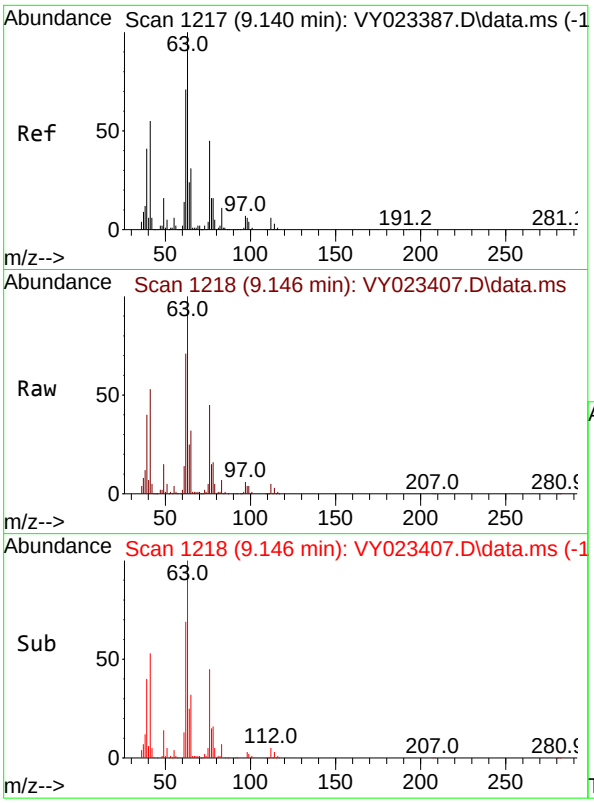



#44
Trichloroethene
Concen: 51.229 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:130 Resp: 299026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 91.0 | 0.0 | 180.6 |






#45
1,2-Dichloropropane
Concen: 52.011 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 63 Resp: 22910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.9 | 24.9 | 37.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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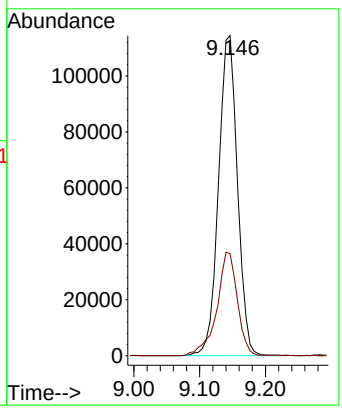
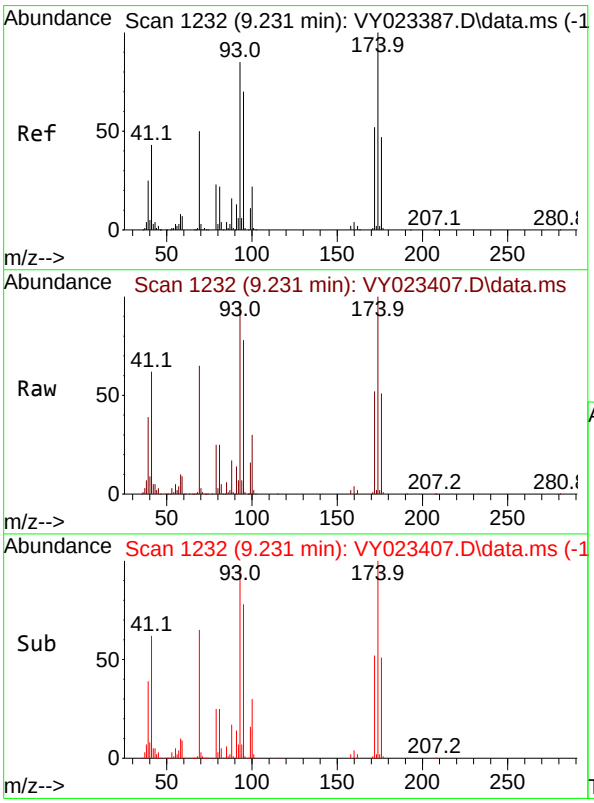
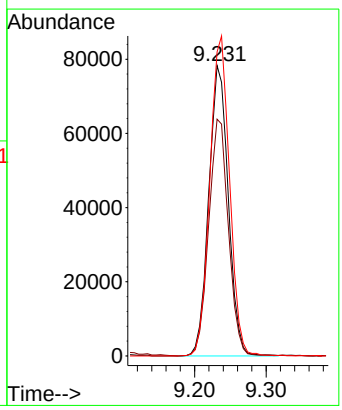


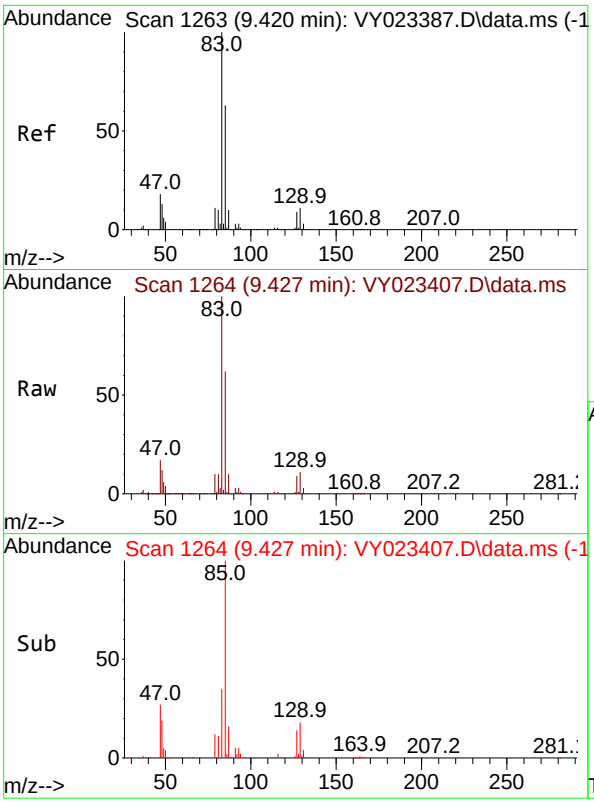




#46
Dibromomethane
Concen: 53.275 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 93 Resp: 148392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.5 | 65.4 | 98.0 |
| 174 | 111.0 | 92.9 | 139.3 |

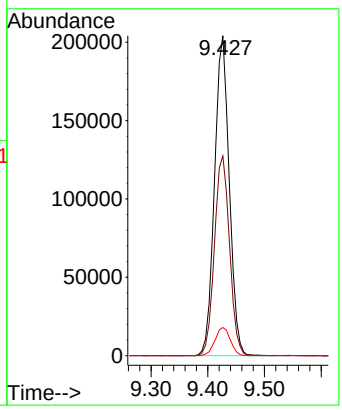





#47
Bromodichloromethane
Concen: 52.430 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 83 Resp: 36779

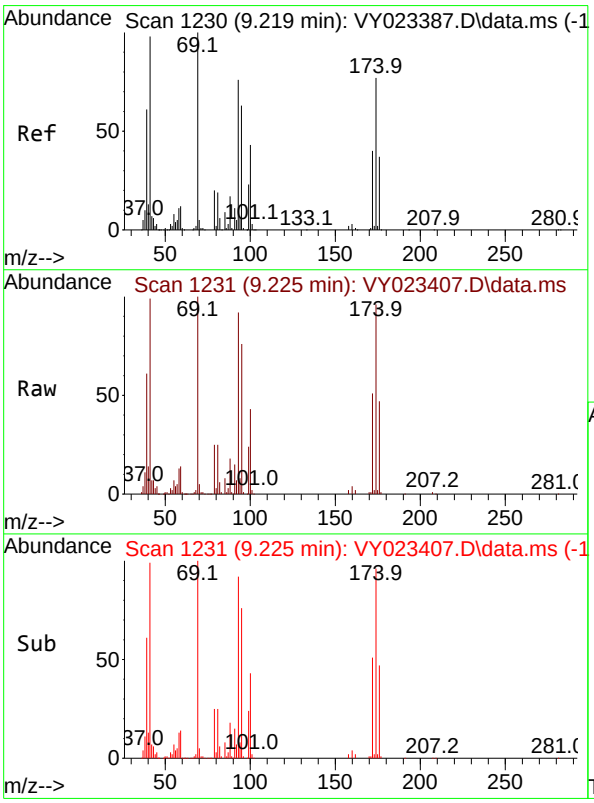
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.4 | 50.8 | 76.2 |
| 127 | 8.8 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

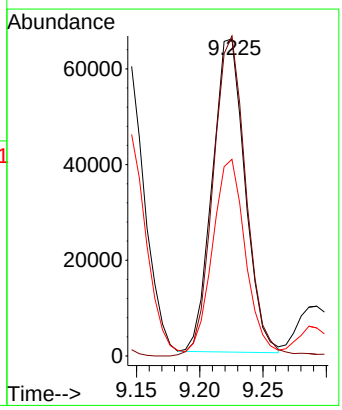
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

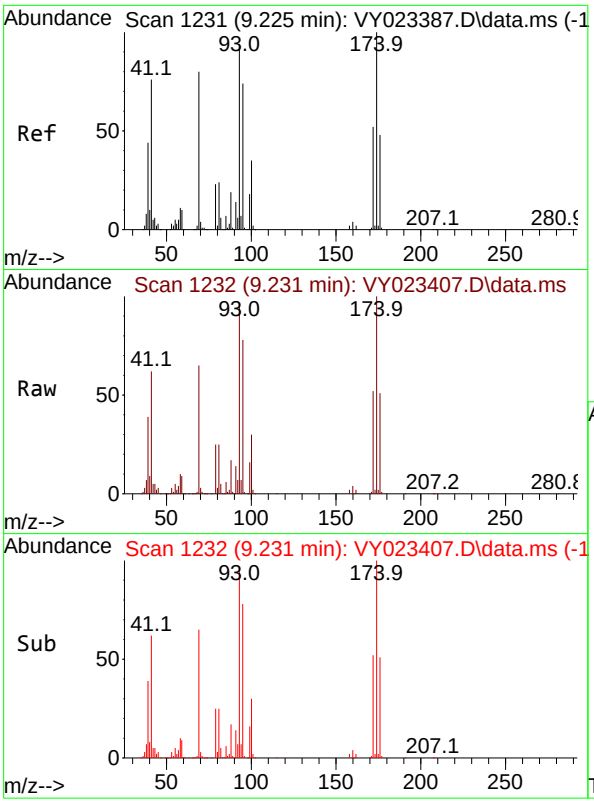



#48
Methyl methacrylate
Concen: 50.315 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 41 Resp: 117590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 103.1 | 81.0 | 121.4 |
| 39 | 60.8 | 48.2 | 72.4 |






#49
1,4-Dioxane
Concen: 903.627 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

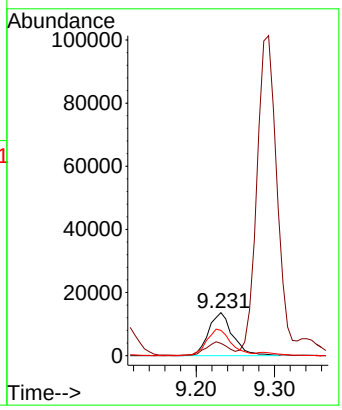
Tgt Ion: 88 Resp: 2918

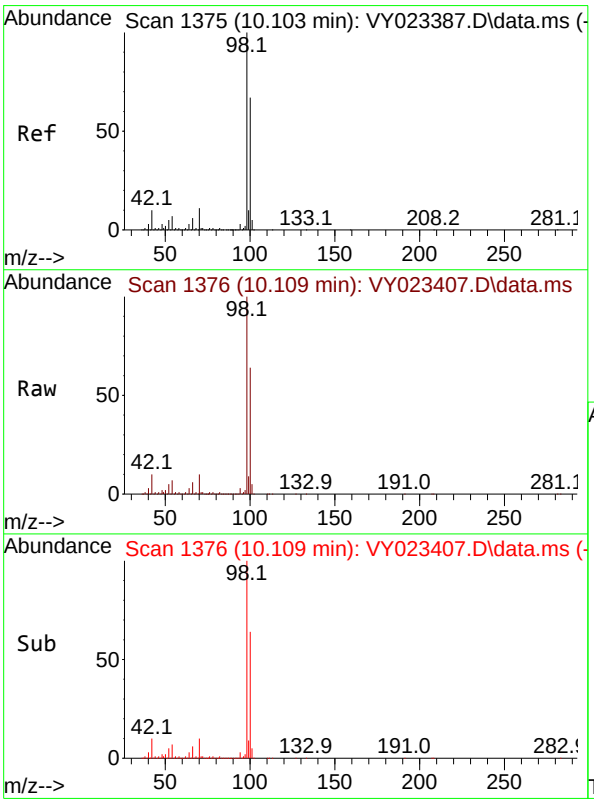
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 28.0 | 21.8 | 32.8 |
| 58 | 62.4 | 46.8 | 70.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

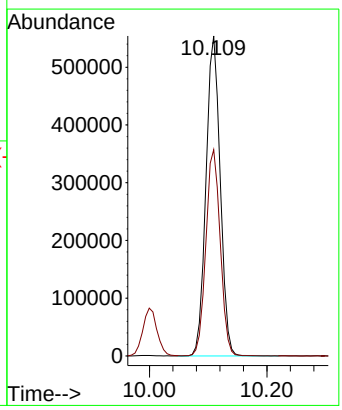


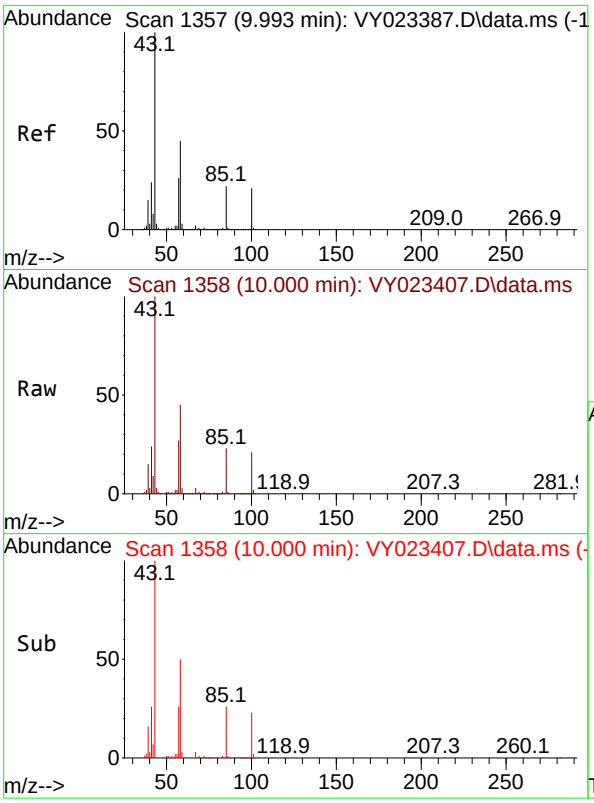




#50
Toluene-d8
Concen: 52.497 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 98 Resp: 929940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 53.0 | 79.4 |






#51
4-Methyl-2-Pentanone
Concen: 261.942 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 43 Resp: 67326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.4 | 35.3 | 52.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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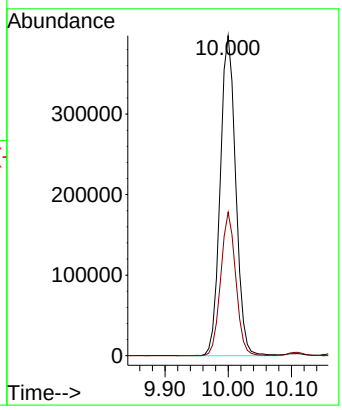
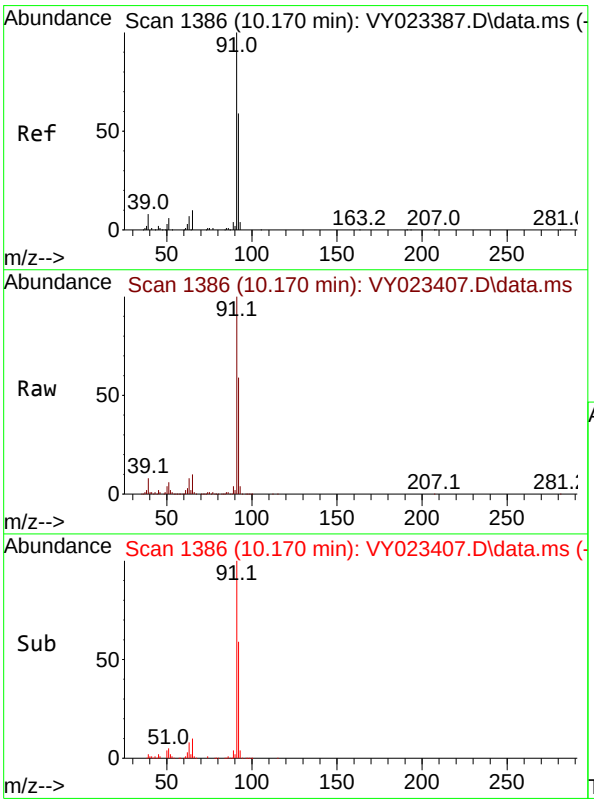
Supervised By :Semsettin Yesilyurt 10/10/2025

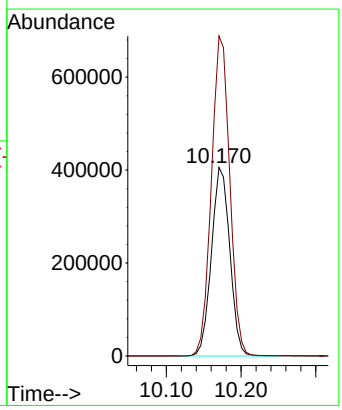


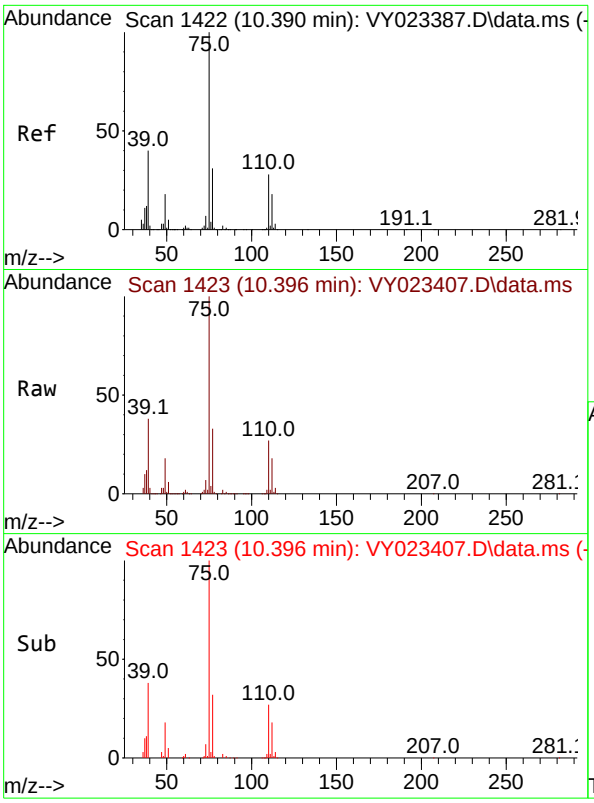




#52
Toluene
Concen: 53.439 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 92 Resp: 691962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.9 | 136.4 | 204.6 |






#53
t-1,3-Dichloropropene
Concen: 52.141 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 75 Resp: 31804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.4 | 25.1 | 37.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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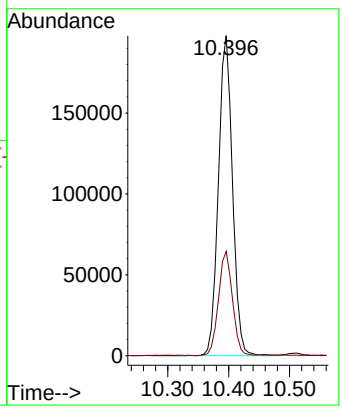
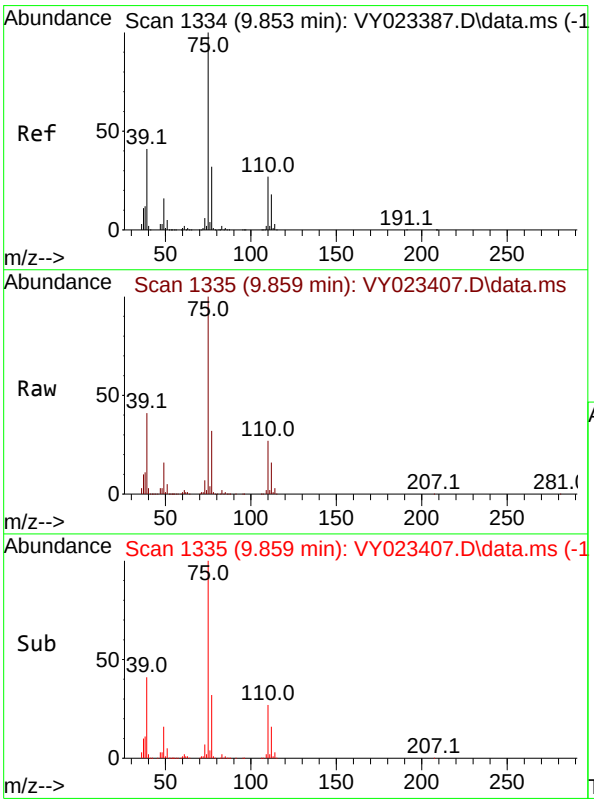
Supervised By :Semsettin Yesilyurt 10/10/2025

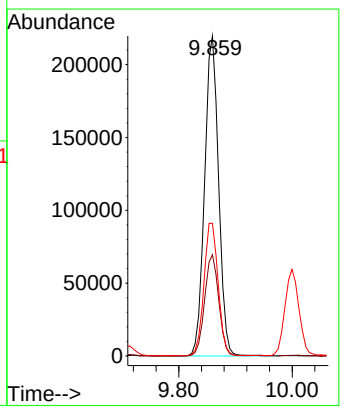


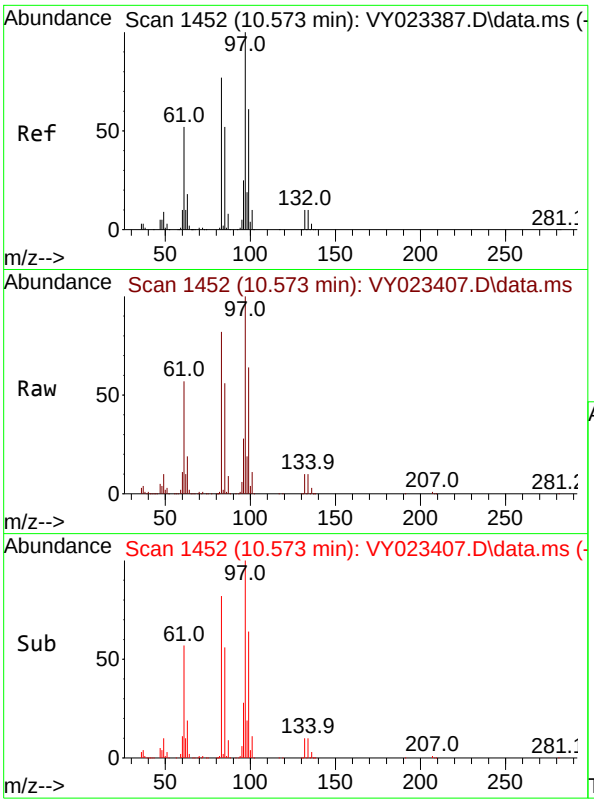




#54
cis-1,3-Dichloropropene
Concen: 52.320 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 75 Resp: 376659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.6 | 25.4 | 38.0 |
| 39 | 41.4 | 32.8 | 49.2 |

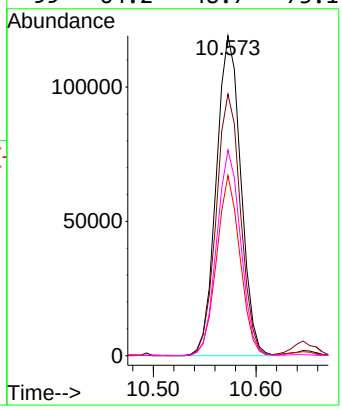





#55
1,1,2-Trichloroethane
Concen: 52.802 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 97 Resp: 19777

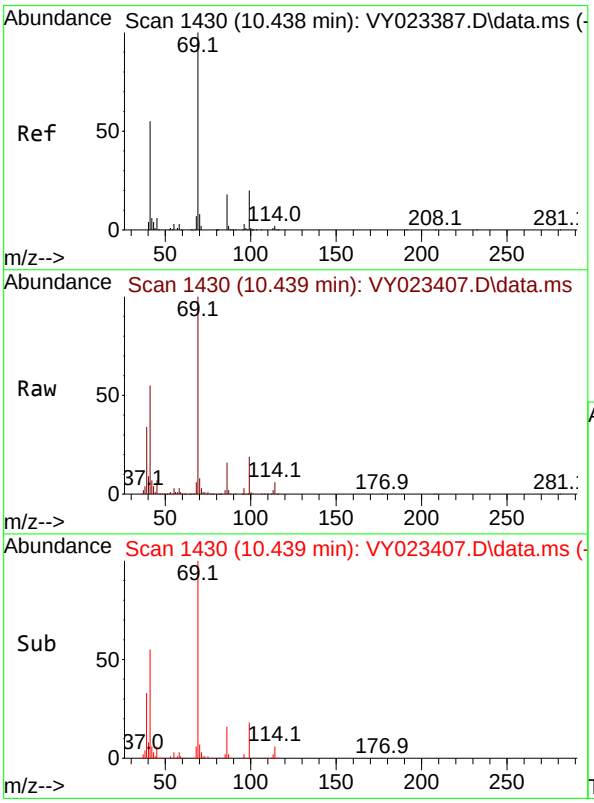
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 81.8 | 61.8 | 92.6 |
| 85 | 56.2 | 41.3 | 61.9 |
| 99 | 64.2 | 48.7 | 73.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

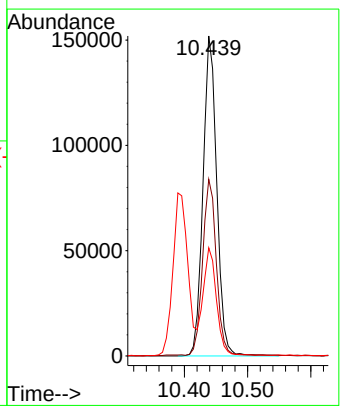
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

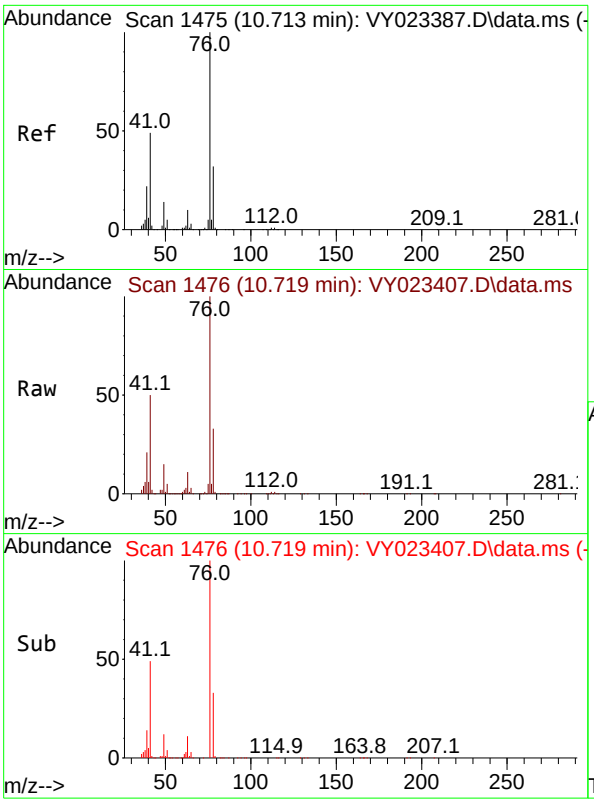



#56
Ethyl methacrylate
Concen: 53.280 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 69 Resp: 230201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 54.6 | 44.6 | 67.0 |
| 39 | 32.2 | 27.0 | 40.4 |






#57
1,3-Dichloropropane
Concen: 52.603 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 76 Resp: 31221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.6 | 25.9 | 38.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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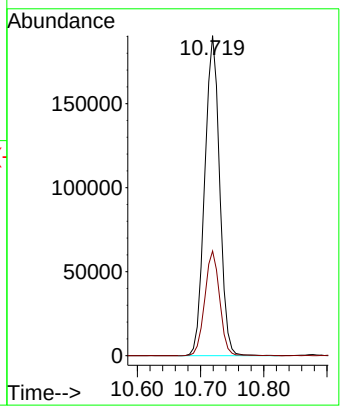
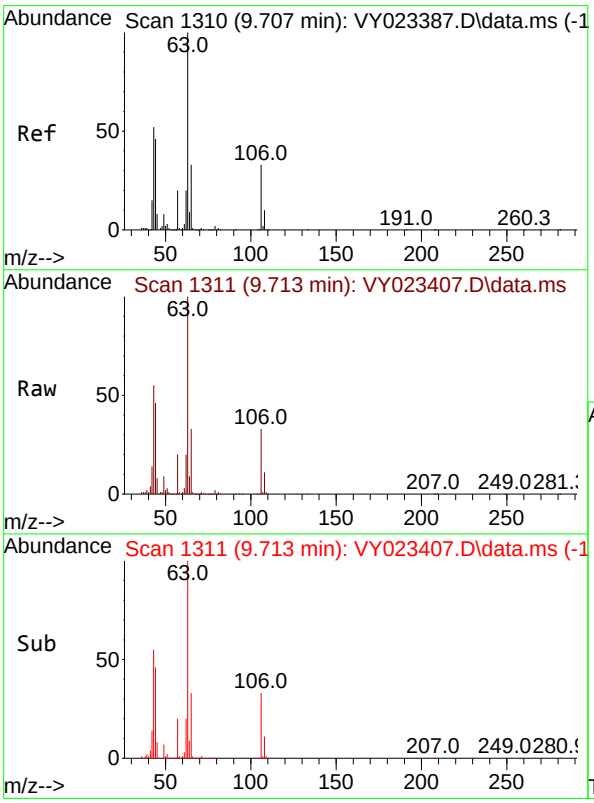
Supervised By :Semsettin Yesilyurt 10/10/2025

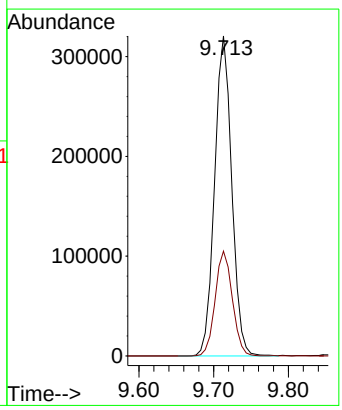


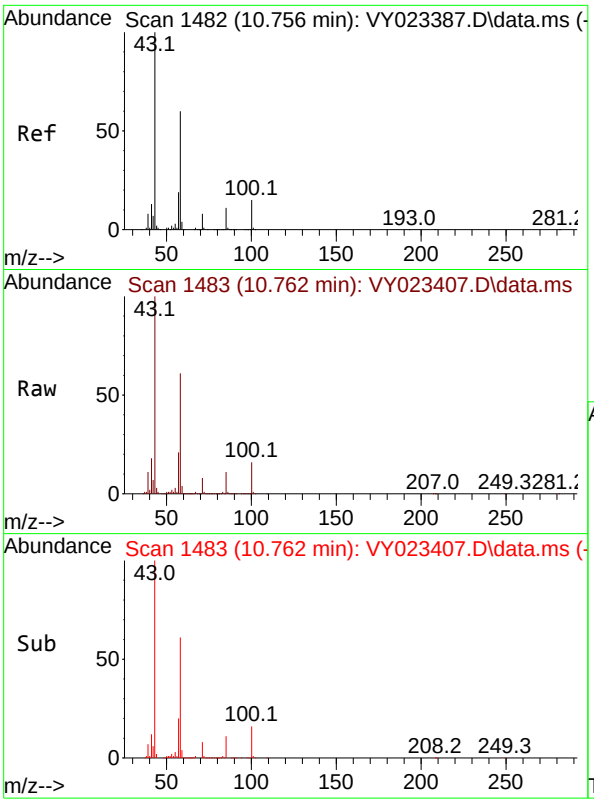




#58
2-Chloroethyl Vinyl ether
Concen: 263.940 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 63 Resp: 510862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 32.9 | 26.6 | 39.8 |






#59
2-Hexanone
Concen: 264.747 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 43 Resp: 48629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 61.5 | 30.5 | 91.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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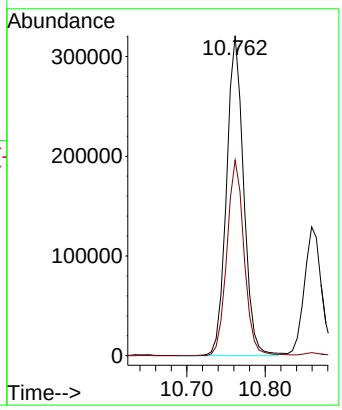
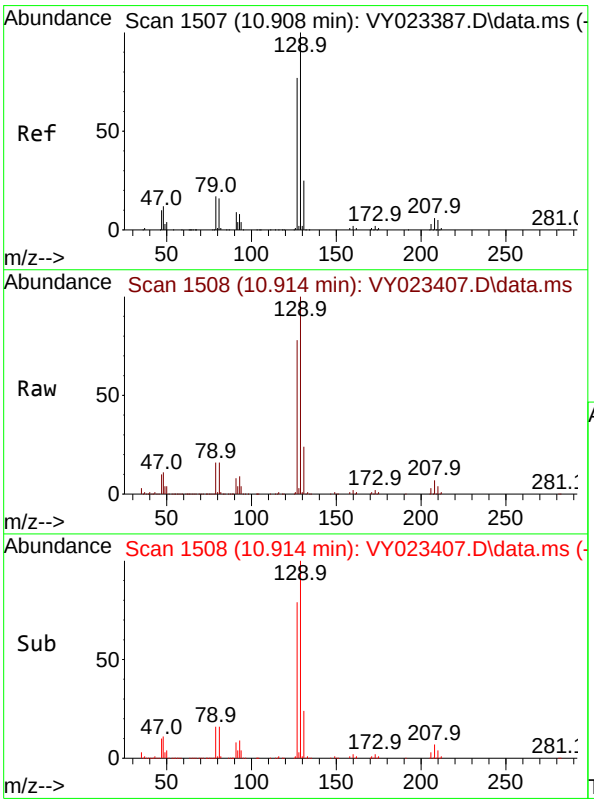
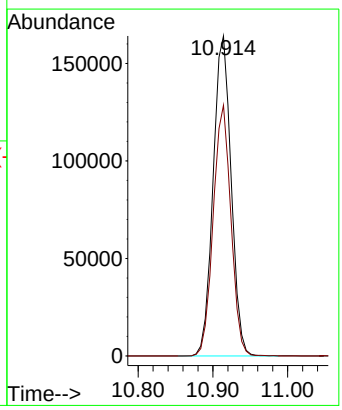


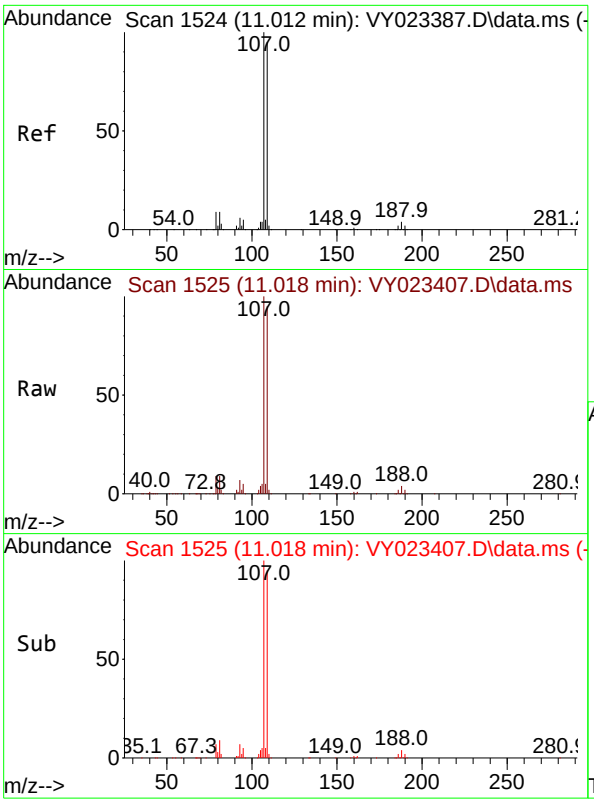




#60
Dibromochloromethane
Concen: 52.392 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:129 Resp: 275135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.1 | 38.6 | 115.7 |

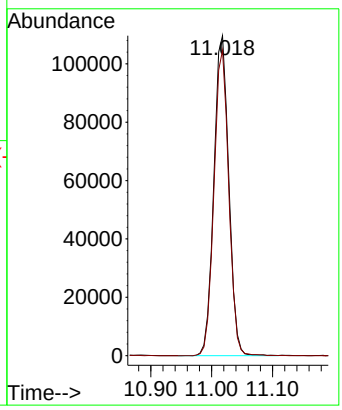





#61
1,2-Dibromoethane
Concen: 52.230 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:107 Resp: 18657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.4 | 76.1 | 114.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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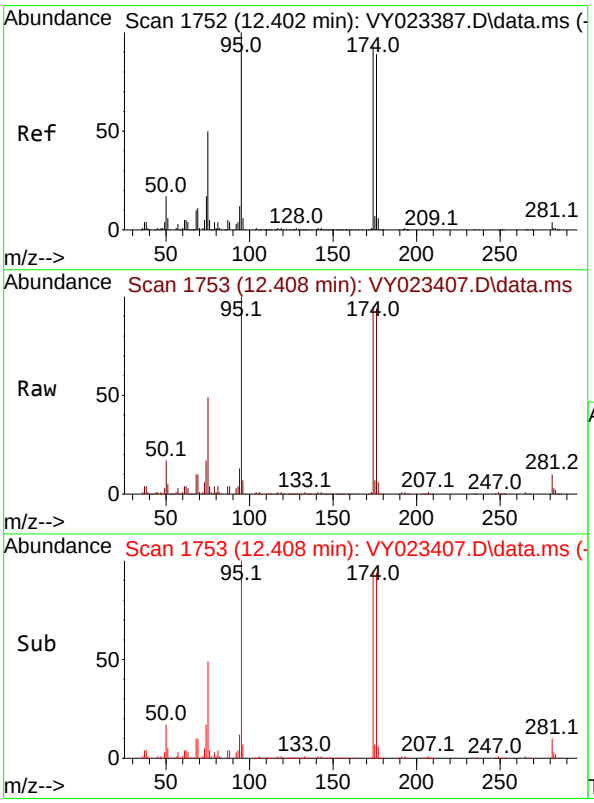
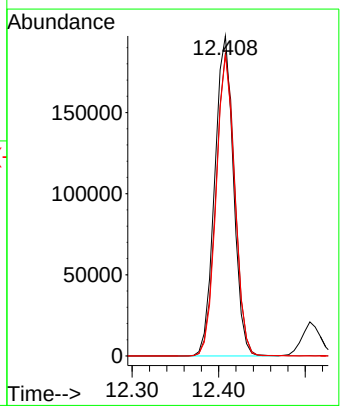
Supervised By :Semsettin Yesilyurt 10/10/2025

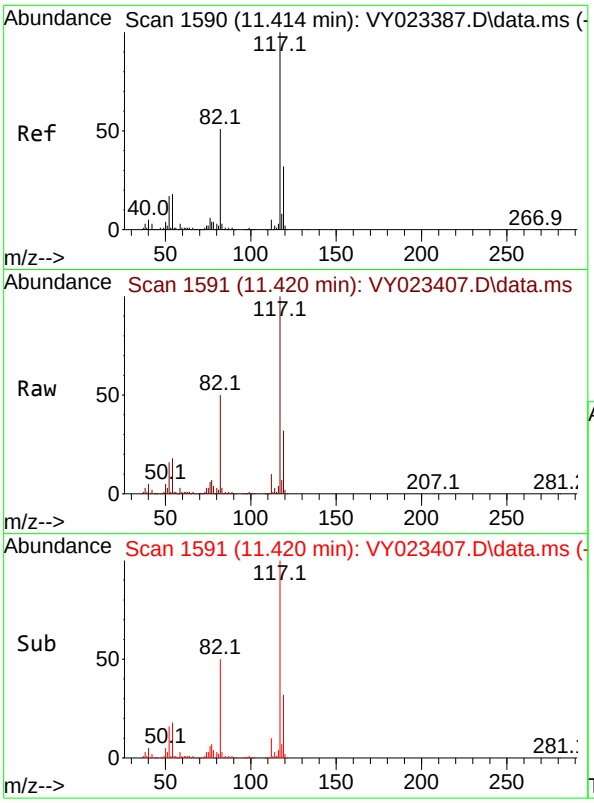



#62
4-Bromofluorobenzene
Concen: 50.706 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 95 Resp: 296545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 95.7 | 0.0 | 192.8 |
| 176 | 93.0 | 0.0 | 187.6 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:117 Resp: 69634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 49.9 | 41.0 | 61.4 |
| 119 | 32.5 | 25.6 | 38.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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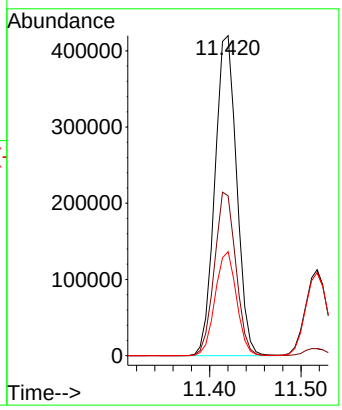
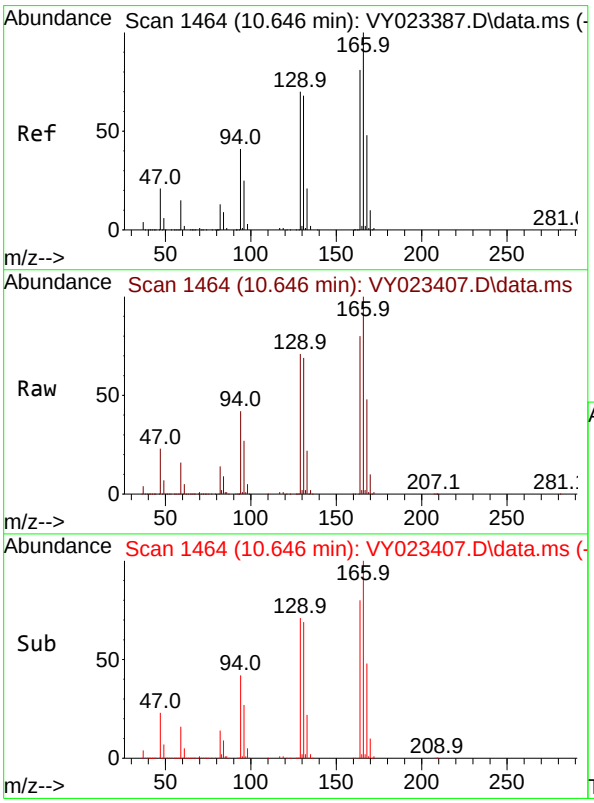
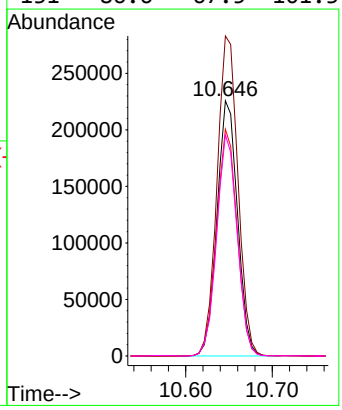


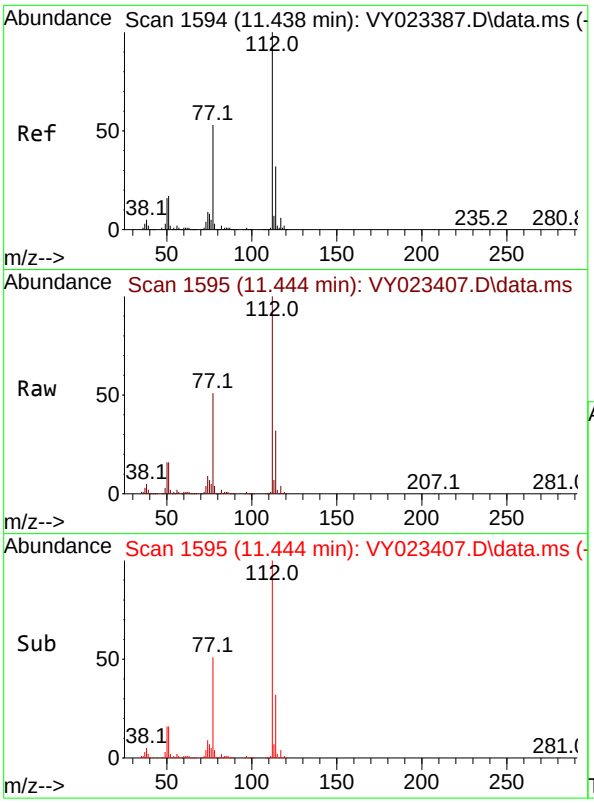




#64
Tetrachloroethene
Concen: 51.752 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:164 Resp: 372099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 125.4 | 99.4 | 149.0 |
| 129 | 88.9 | 69.4 | 104.2 |
| 131 | 86.6 | 67.5 | 101.3 |

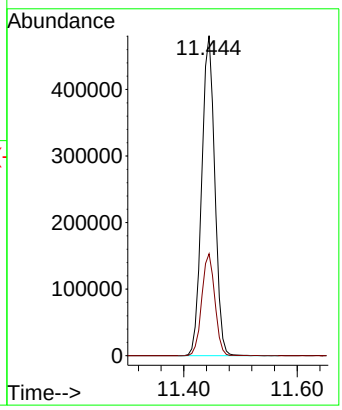





#65
Chlorobenzene
Concen: 50.723 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:112 Resp: 76820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.8 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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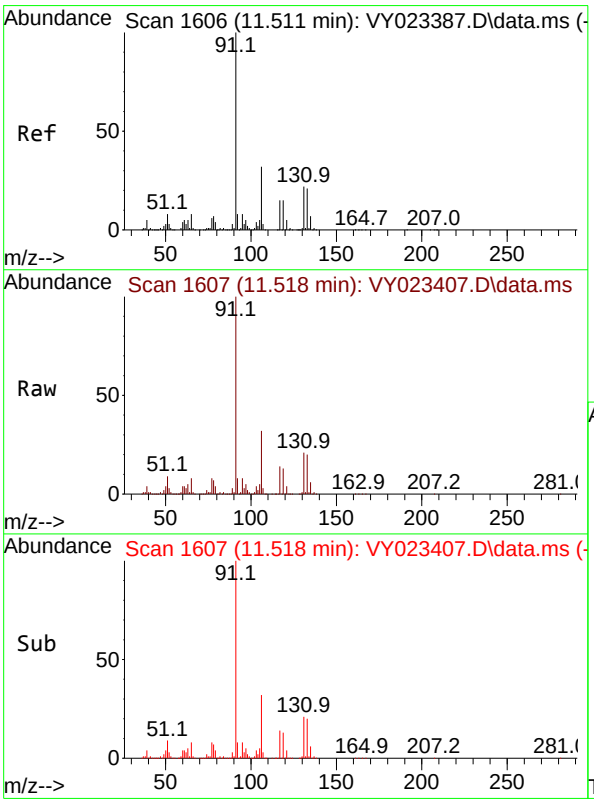
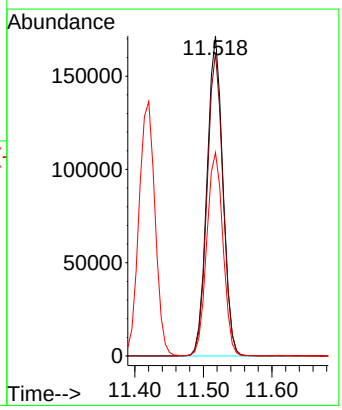
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

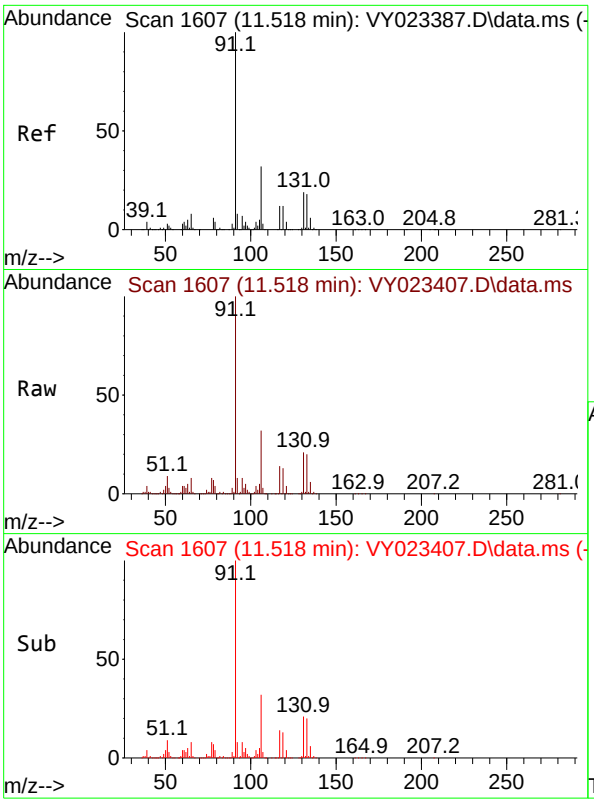



#66
1,1,1,2-Tetrachloroethane
Concen: 51.134 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:131 Resp: 275973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.8 | 48.4 | 145.2 |
| 119 | 65.2 | 32.4 | 97.2 |

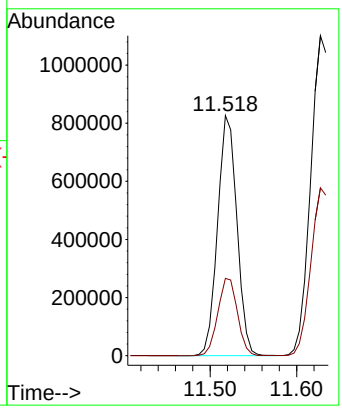





#67
Ethyl Benzene
Concen: 52.144 ug/l
RT: 11.518 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 91 Resp: 127831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.2 | 25.8 | 38.8 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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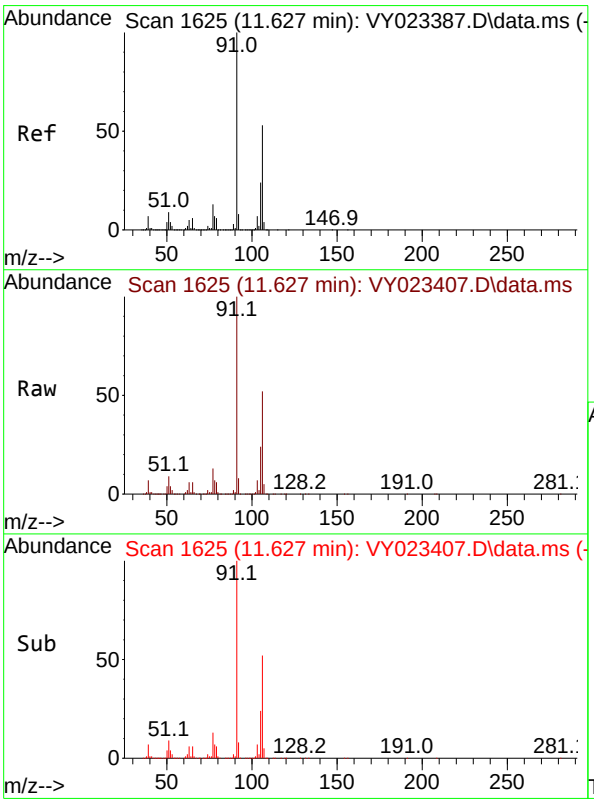
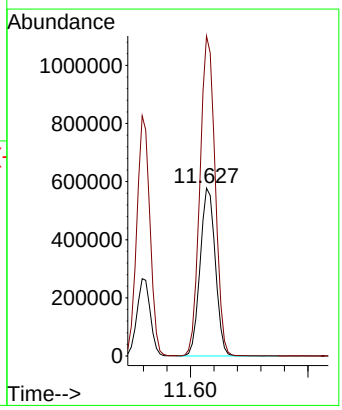
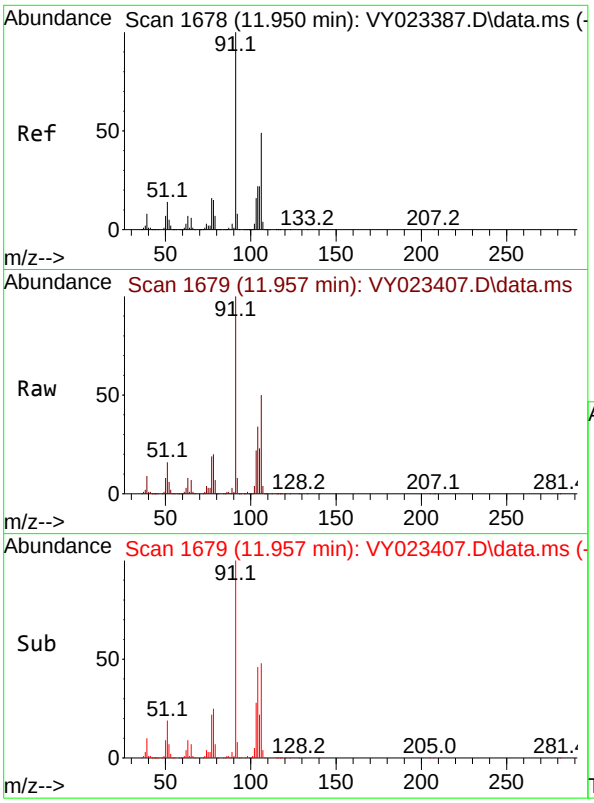



#68
m/p-Xylenes
Concen: 105.533 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:106 Resp: 1037707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 190.7 | 152.6 | 229.0 |

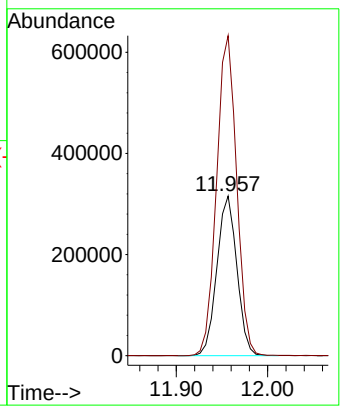





#69
o-Xylene
Concen: 52.013 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:106 Resp: 47971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 201.2 | 101.4 | 304.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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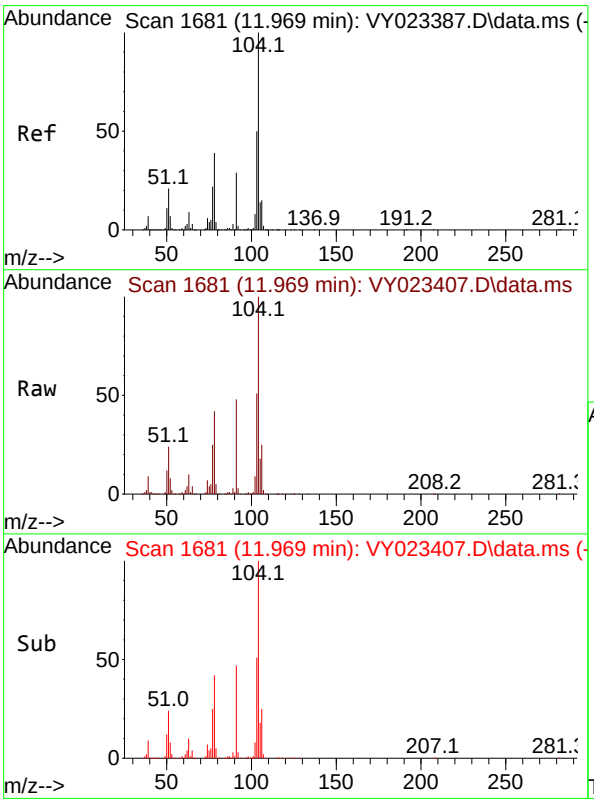
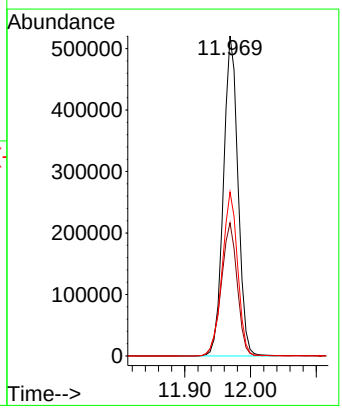
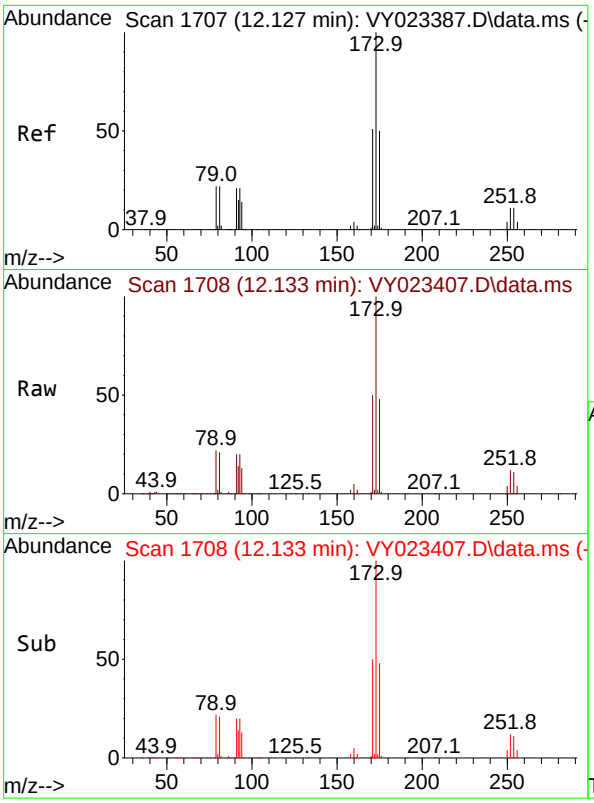



#70
Styrene
Concen: 52.844 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:104 Resp: 801488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 45.5 | 36.1 | 54.1 |
| 103 | 54.5 | 43.2 | 64.8 |

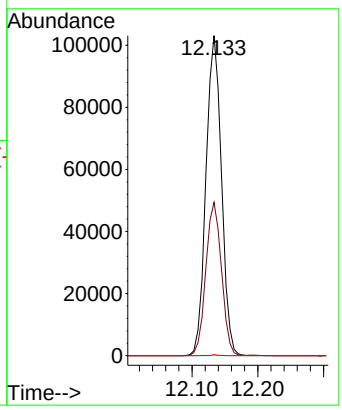





#71
Bromoform
Concen: 50.460 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:173 Resp: 16892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.4 | 24.8 | 74.3 |
| 254 | 0.2 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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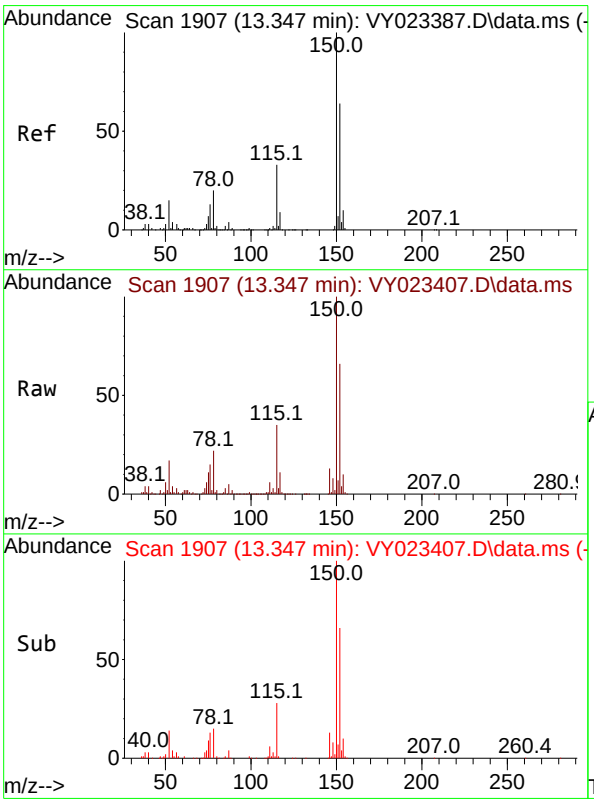
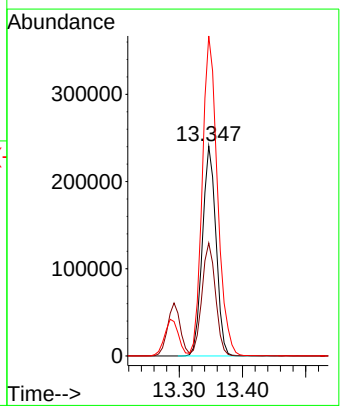
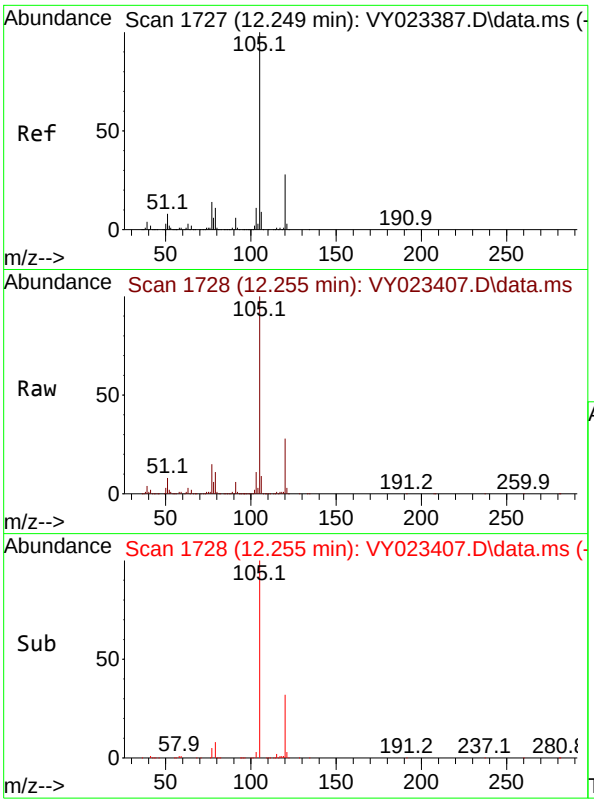



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:152 Resp: 360790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 53.7 | 27.1 | 81.2 |
| 150 | 170.0 | 0.0 | 347.4 |

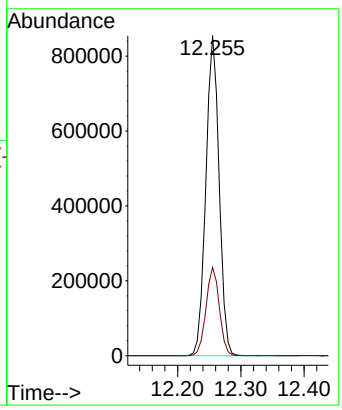





#73
Isopropylbenzene
Concen: 52.380 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:105 Resp: 124542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.7 | 13.9 | 41.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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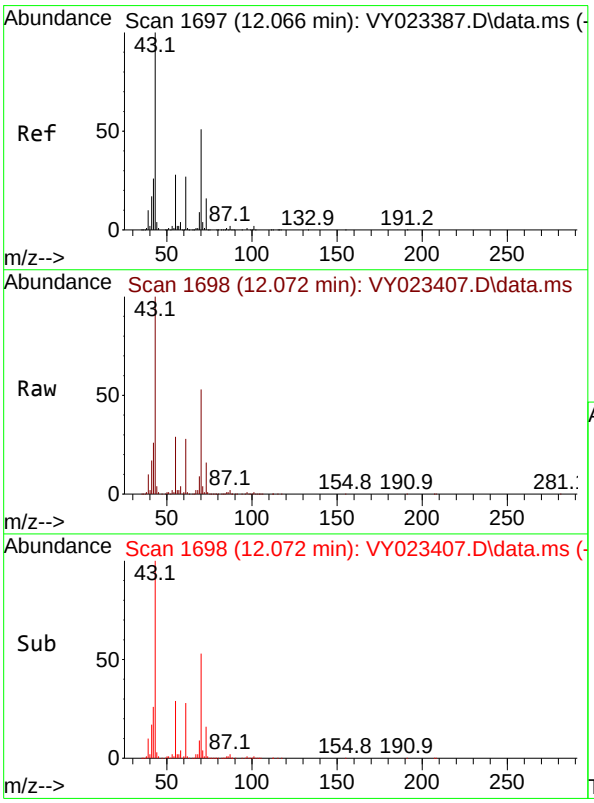
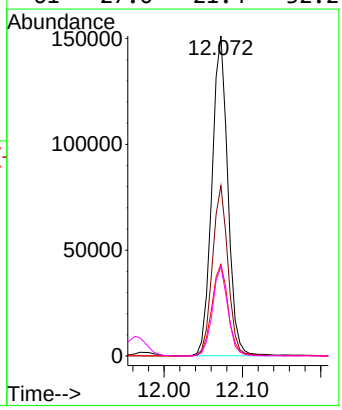
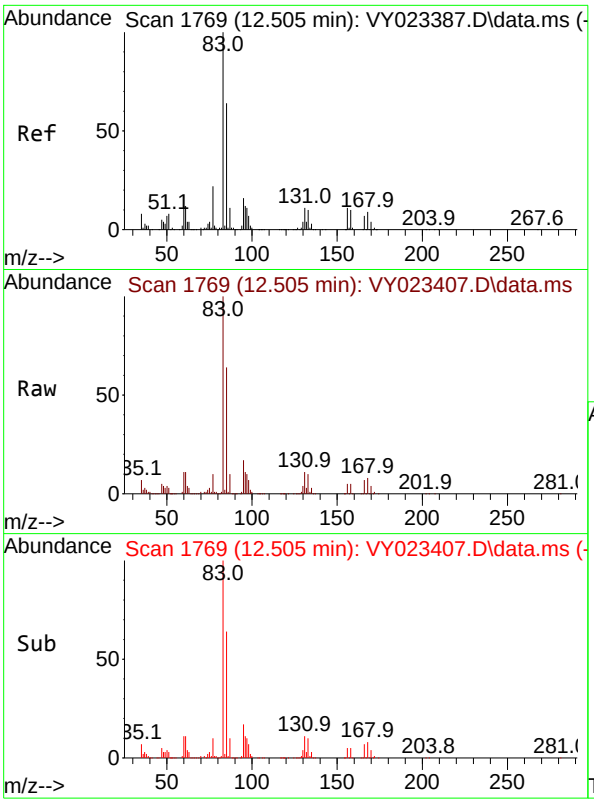



#74
N-amyl acetate
Concen: 49.925 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 43 Resp: 213212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 52.3 | 41.1 | 61.7 |
| 55 | 29.5 | 23.0 | 34.6 |
| 61 | 27.0 | 21.4 | 32.2 |

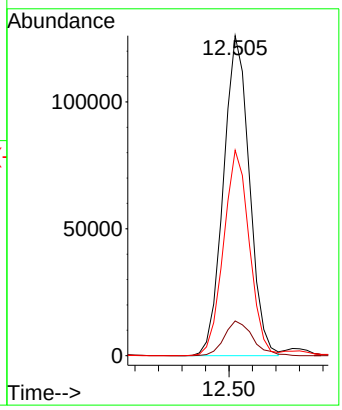





#75
1,1,2,2-Tetrachloroethane
Concen: 49.838 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 83 Resp: 19381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.8 | 5.9 | 17.6 |
| 85 | 63.7 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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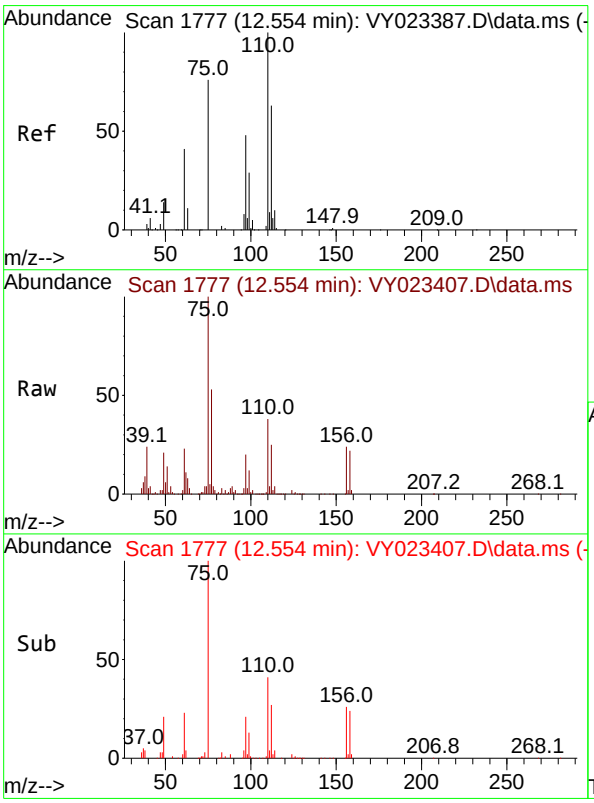
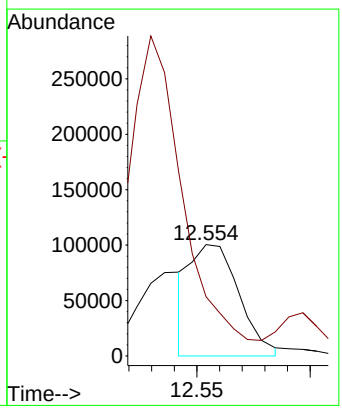
Supervised By :Semsettin Yesilyurt 10/10/2025

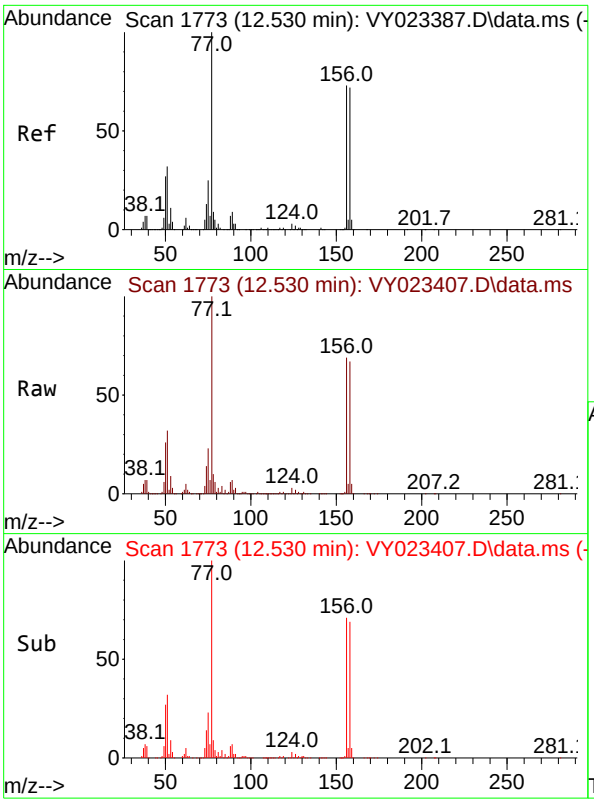



#76
1,2,3-Trichloropropane
Concen: 47.221 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 75 Resp: 150310

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

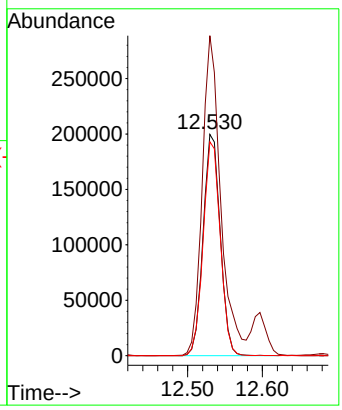





#77
Bromobenzene
Concen: 50.268 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:156 Resp: 31774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 156.3 | 76.8 | 230.5 |
| 158 | 96.6 | 49.0 | 147.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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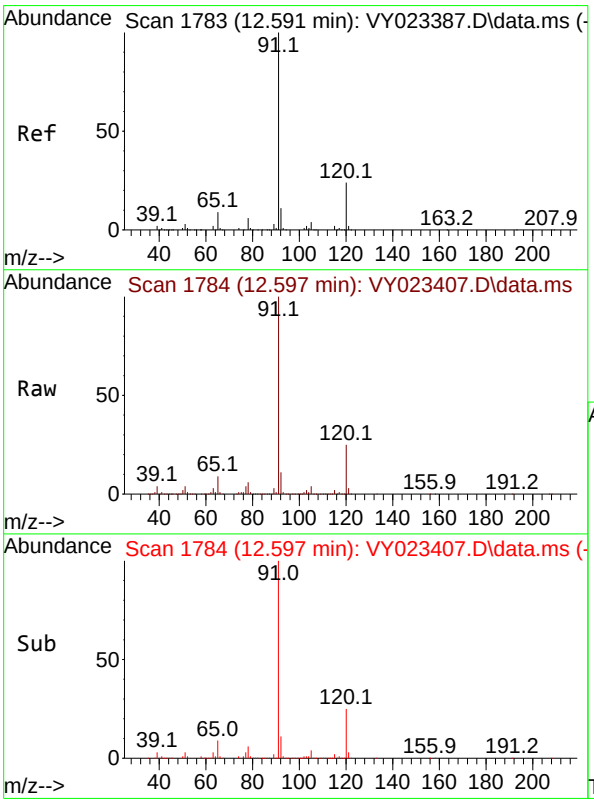
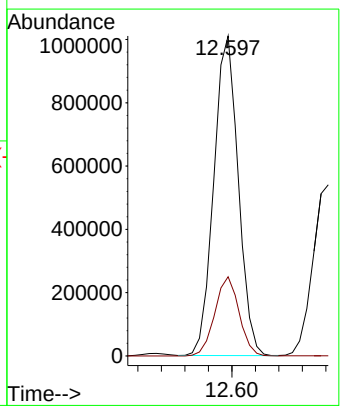
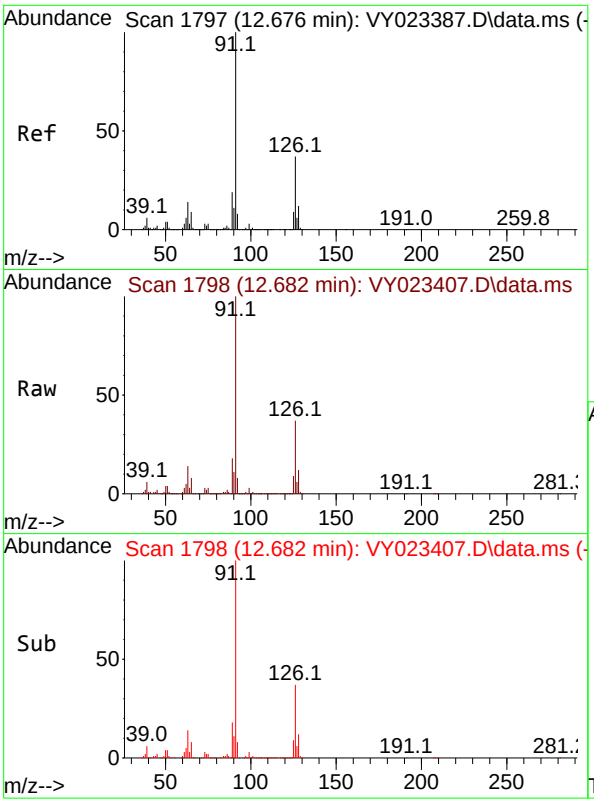



#78
n-propylbenzene
Concen: 53.022 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 91 Resp: 1458866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.6 | 12.3 | 36.8 |






#79
2-Chlorotoluene
Concen: 51.650 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 91 Resp: 83220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 37.2 | 18.5 | 55.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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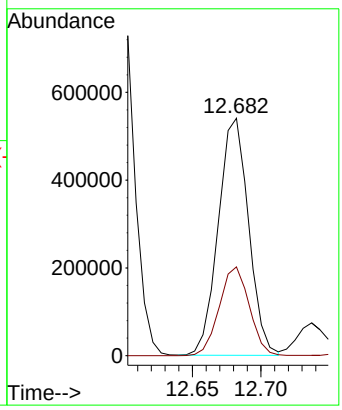
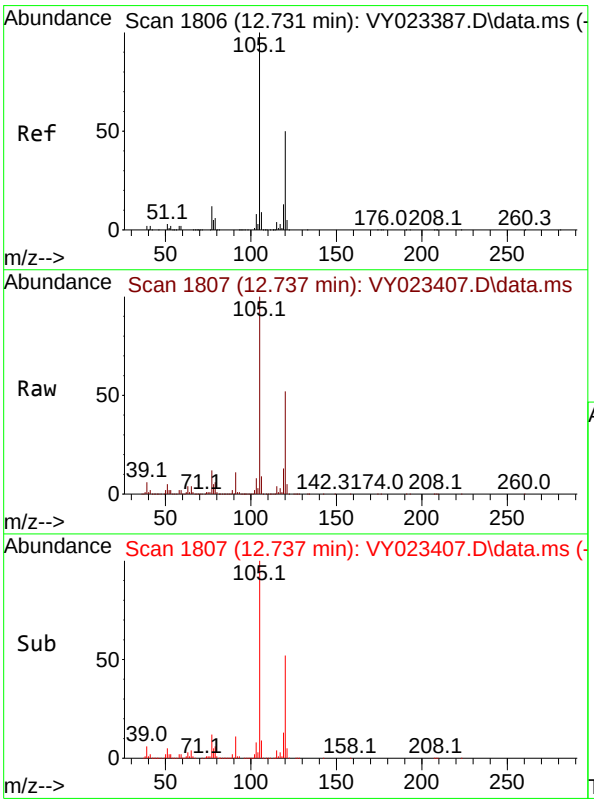
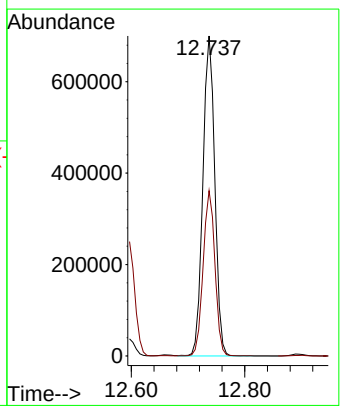


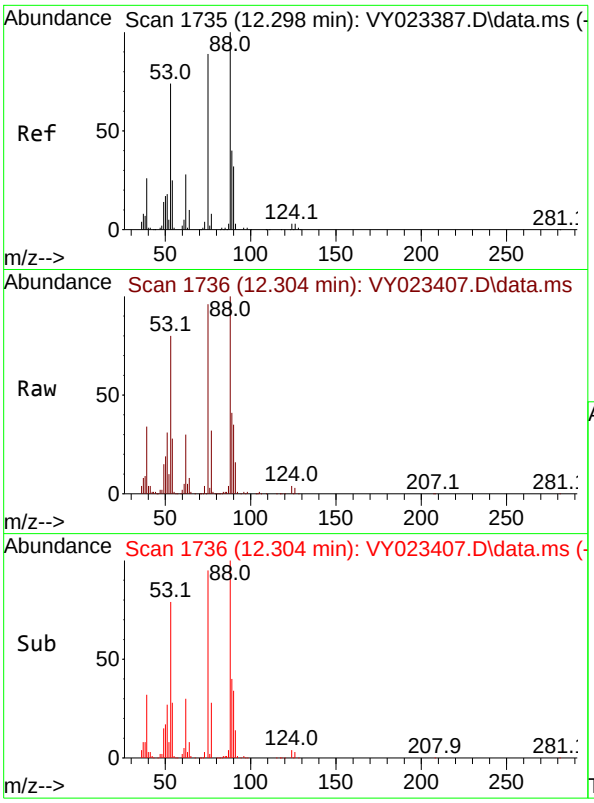




#80
1,3,5-Trimethylbenzene
Concen: 53.093 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:105 Resp: 1020091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 51.1 | 25.4 | 76.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 49.916 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 75 Resp: 6479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 87.4 | 68.6 | 102.8 |
| 89 | 47.5 | 39.0 | 58.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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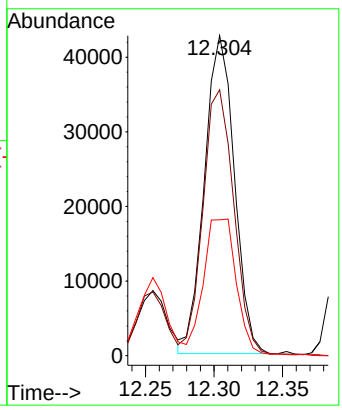
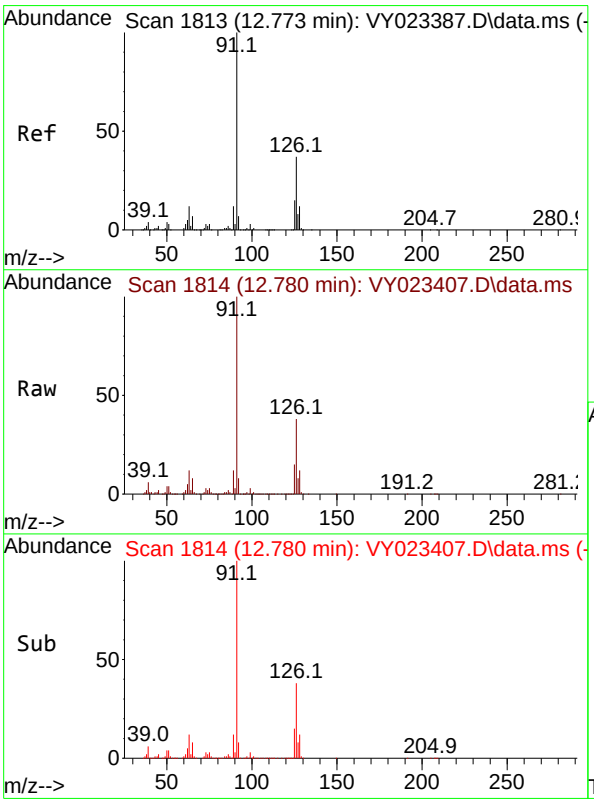
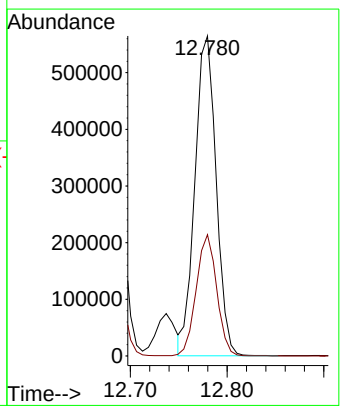


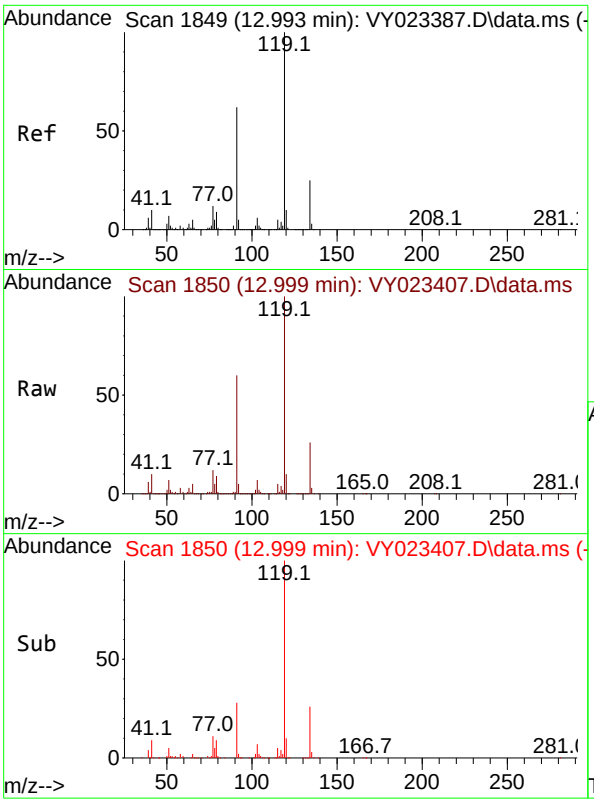




#82
4-Chlorotoluene
Concen: 51.889 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 91 Resp: 861031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.9 | 18.4 | 55.4 |

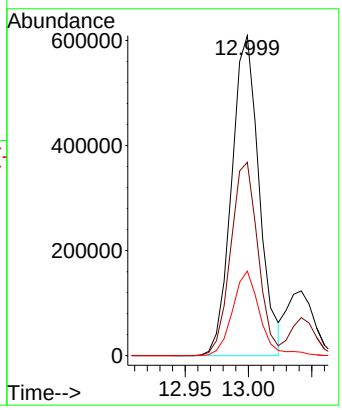





#83
tert-Butylbenzene
Concen: 52.071 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:119 Resp: 92373

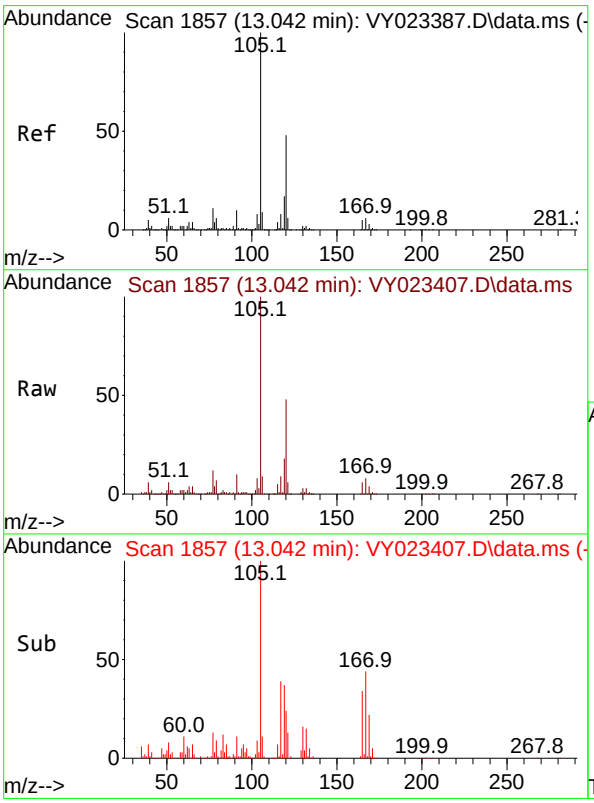
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 59.9 | 29.9 | 89.8 |
| 134 | 26.3 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

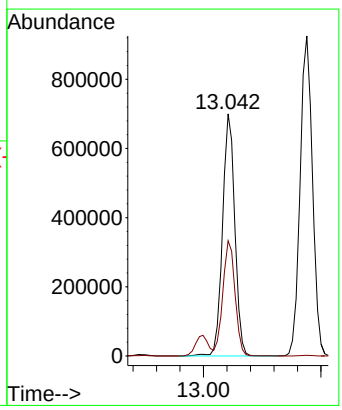
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

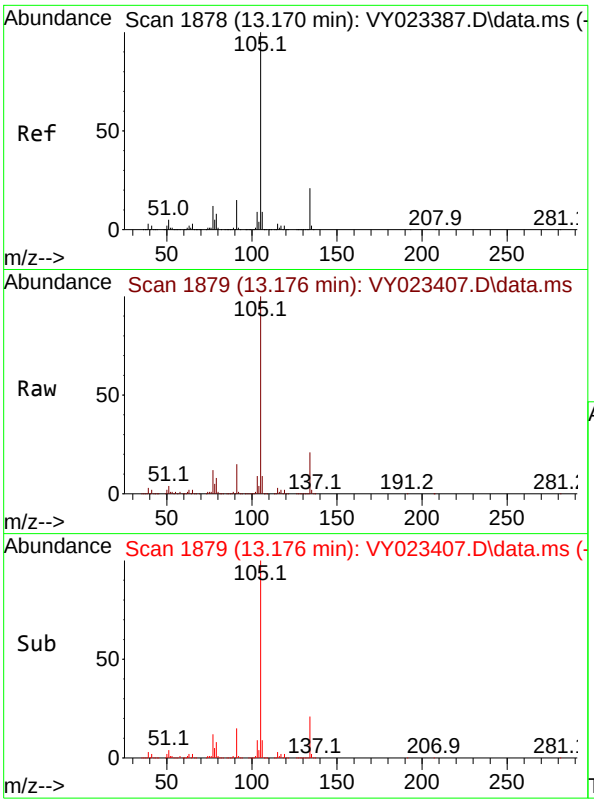



#84
1,2,4-Trimethylbenzene
Concen: 52.908 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:105 Resp: 1014495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.1 | 23.8 | 71.2 |

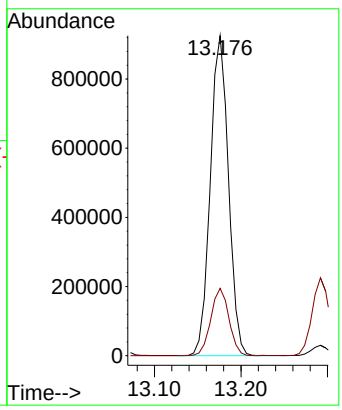





#85
sec-Butylbenzene
Concen: 52.950 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:105 Resp: 134742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.0 | 10.7 | 32.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 10/10/2025
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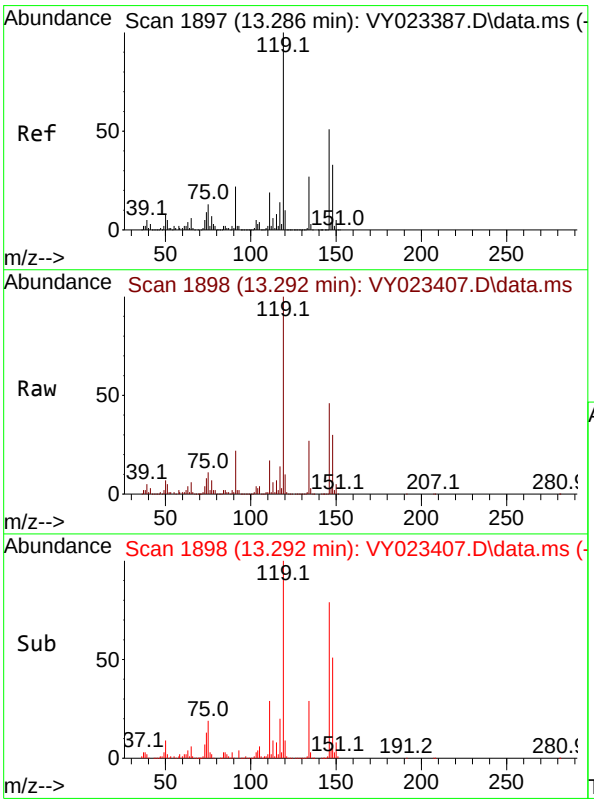
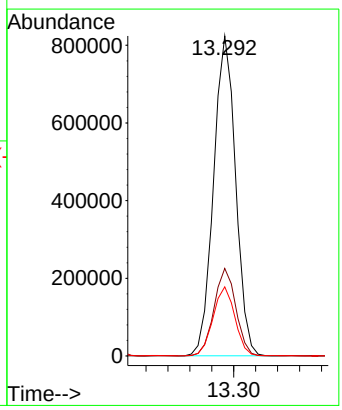
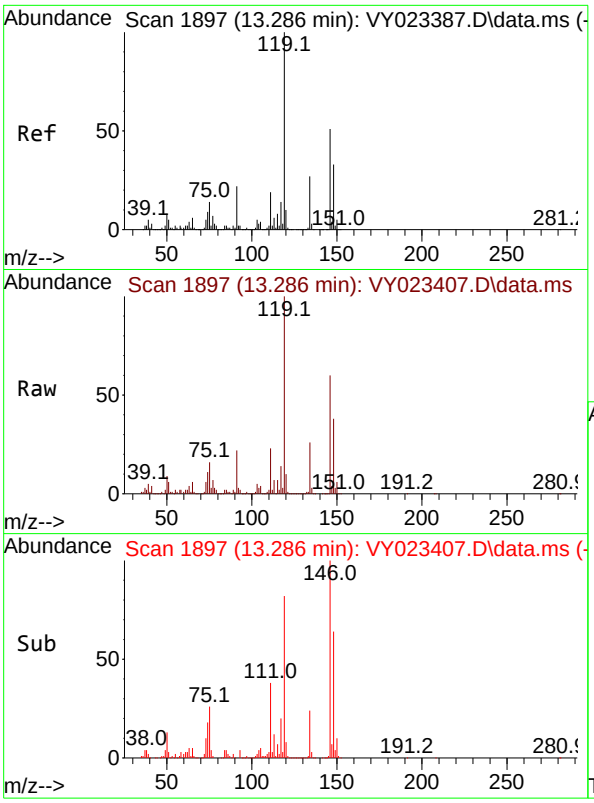



#86
p-Isopropyltoluene
Concen: 53.120 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:119 Resp: 1150927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 27.1 | 13.6 | 40.7 |
| 91 | 21.4 | 10.9 | 32.9 |

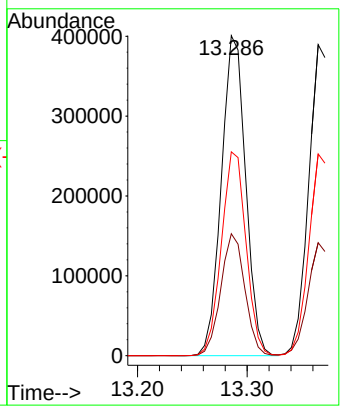





#87
1,3-Dichlorobenzene
Concen: 50.135 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:146 Resp: 61711

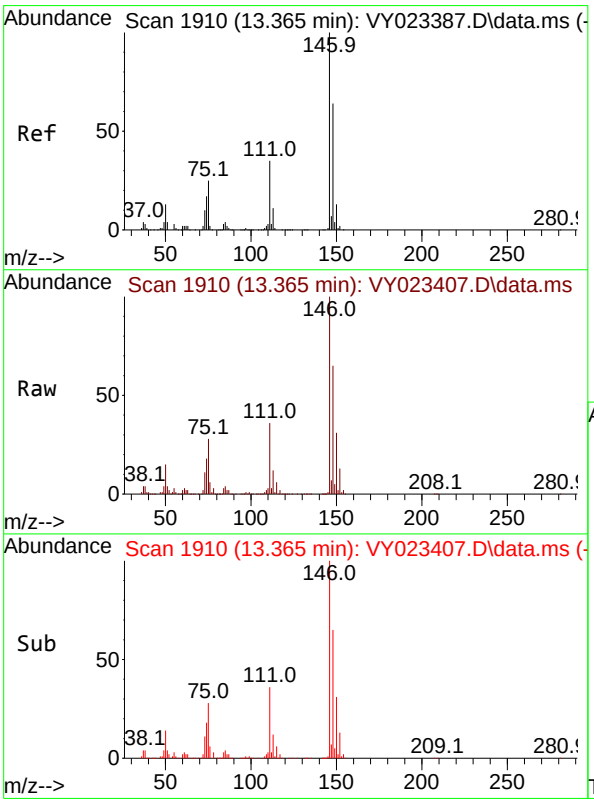
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.8 | 18.7 | 56.1 |
| 148 | 64.6 | 31.9 | 95.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

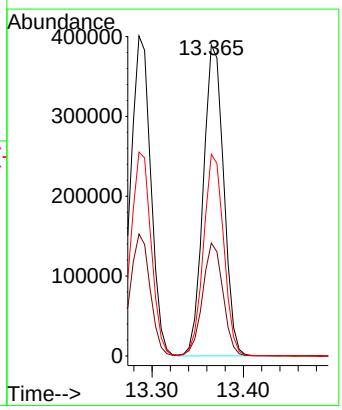
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

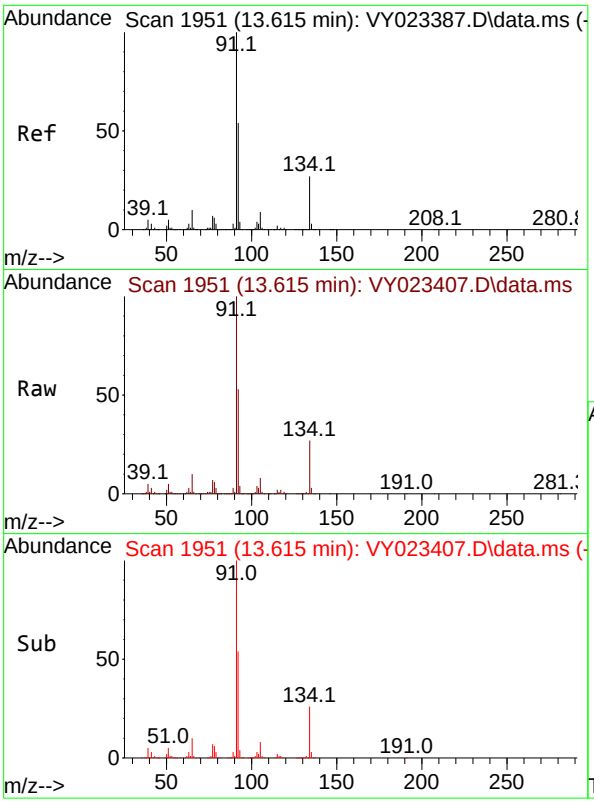



#88
1,4-Dichlorobenzene
Concen: 49.641 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:146 Resp: 603476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 36.3 | 18.0 | 54.0 |
| 148 | 64.4 | 31.9 | 95.7 |

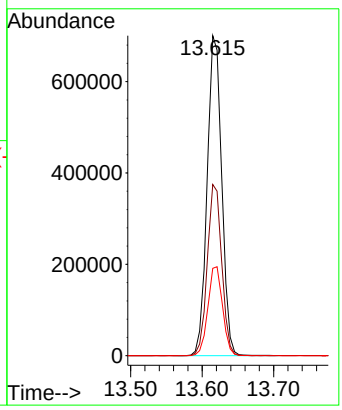





#89
n-Butylbenzene
Concen: 52.515 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 91 Resp: 99142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.9 | 27.0 | 80.8 |
| 134 | 28.0 | 14.1 | 42.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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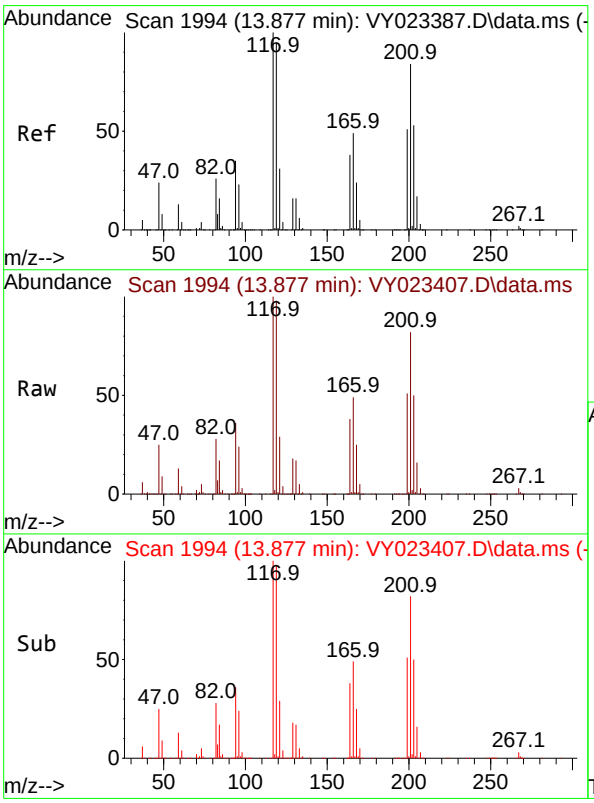
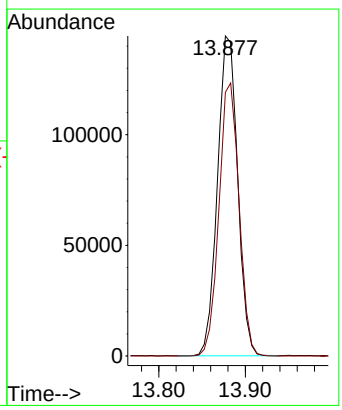
Supervised By :Semsettin Yesilyurt 10/10/2025

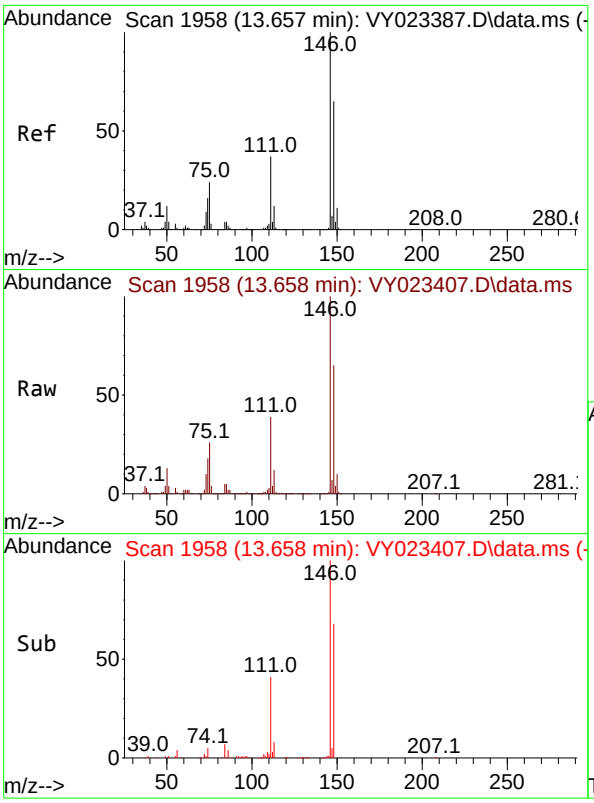



#90
Hexachloroethane
Concen: 50.206 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:117 Resp: 233963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 85.0 | 43.8 | 131.4 |

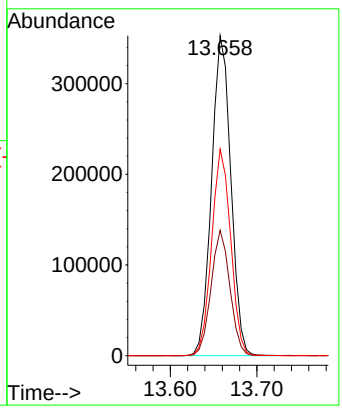





#91
1,2-Dichlorobenzene
Concen: 50.554 ug/l
RT: 13.658 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:146 Resp: 54556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.5 | 19.0 | 57.0 |
| 148 | 63.8 | 32.1 | 96.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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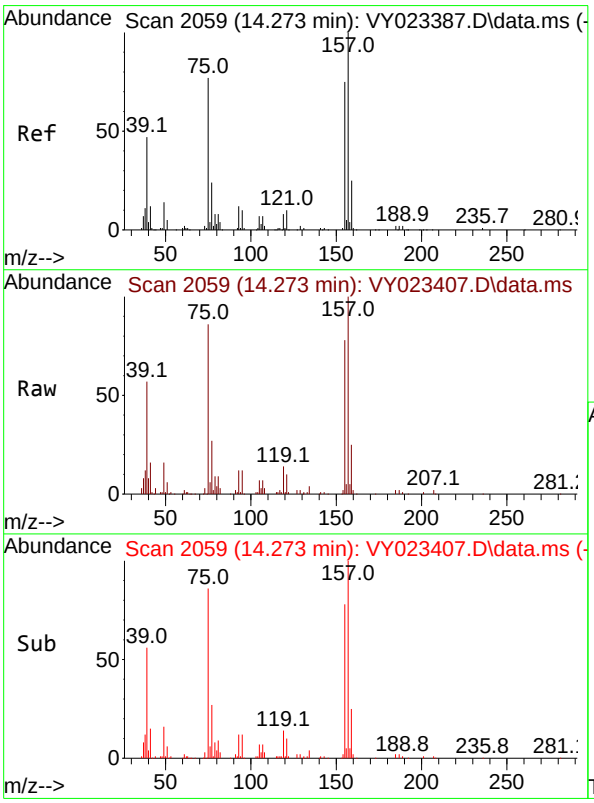
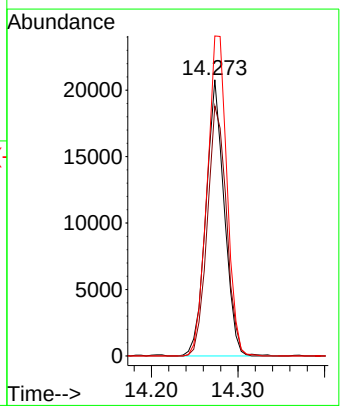
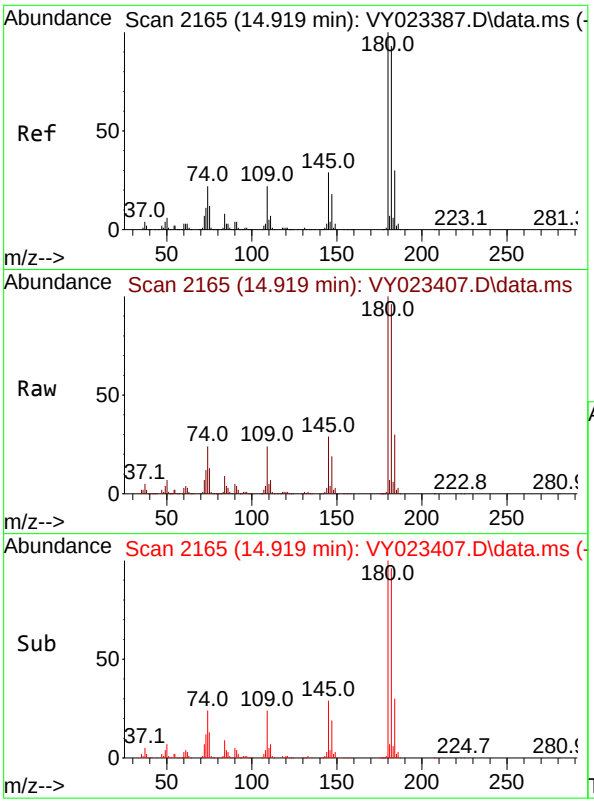



#92
1,2-Dibromo-3-Chloropropane
Concen: 48.006 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion: 75 Resp: 30632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 94.0 | 50.0 | 150.0 |
| 157 | 124.8 | 63.8 | 191.5 |

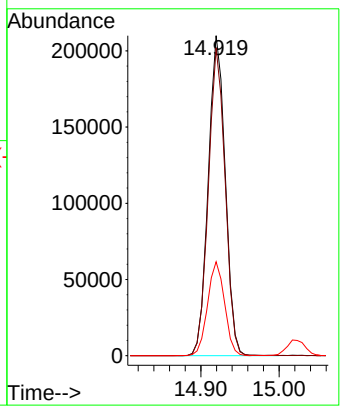





#93
1,2,4-Trichlorobenzene
Concen: 47.003 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:180 Resp: 31622

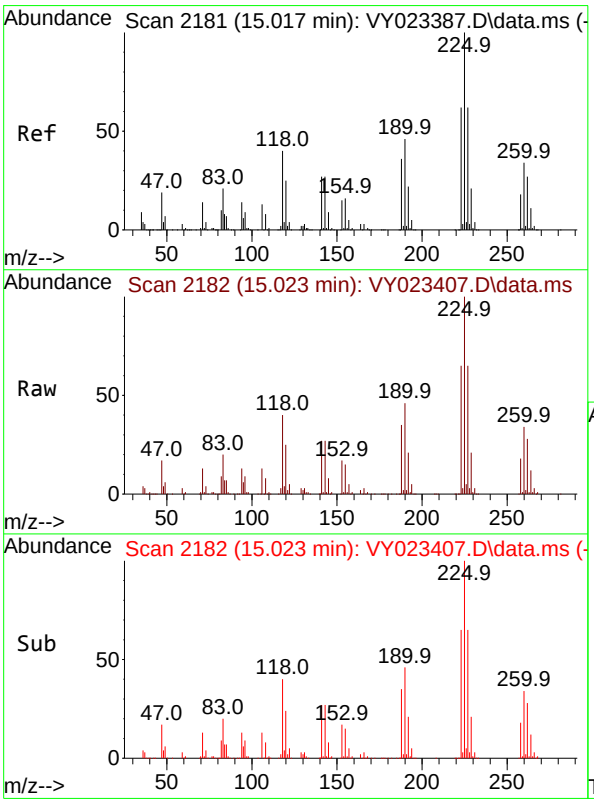
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 47.9 | 143.6 |
| 145 | 29.3 | 14.7 | 44.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

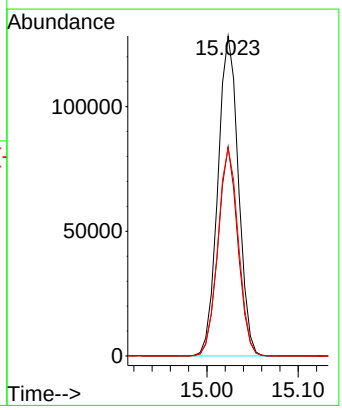
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

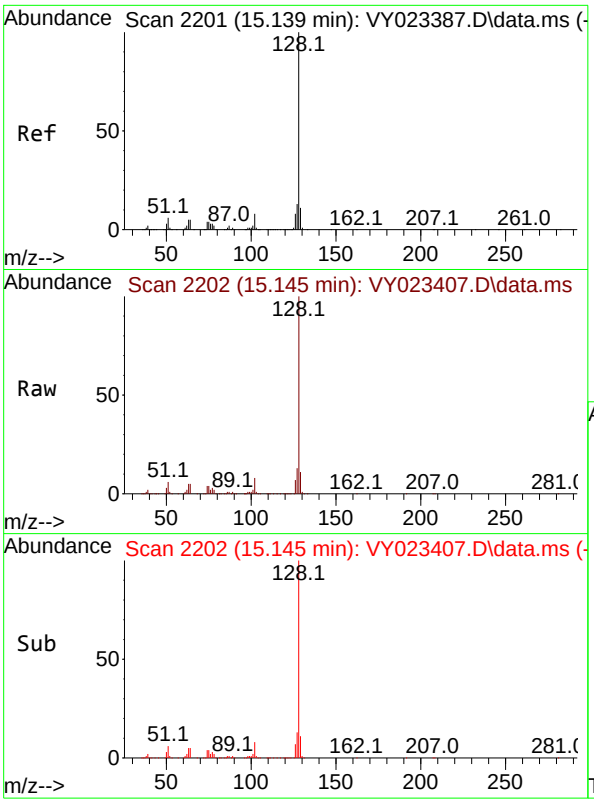



#94
Hexachlorobutadiene
Concen: 47.679 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:225 Resp: 199957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.0 | 30.8 | 92.3 |
| 227 | 65.1 | 31.9 | 95.7 |

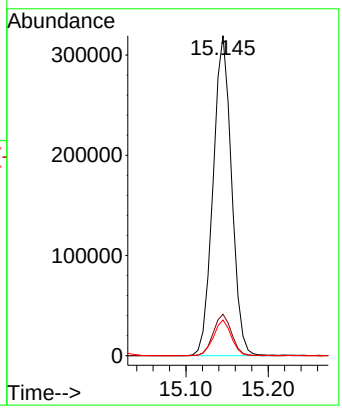





#95
Naphthalene
Concen: 46.618 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:128 Resp: 49942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.4 | 15.6 |
| 129 | 10.8 | 8.9 | 13.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
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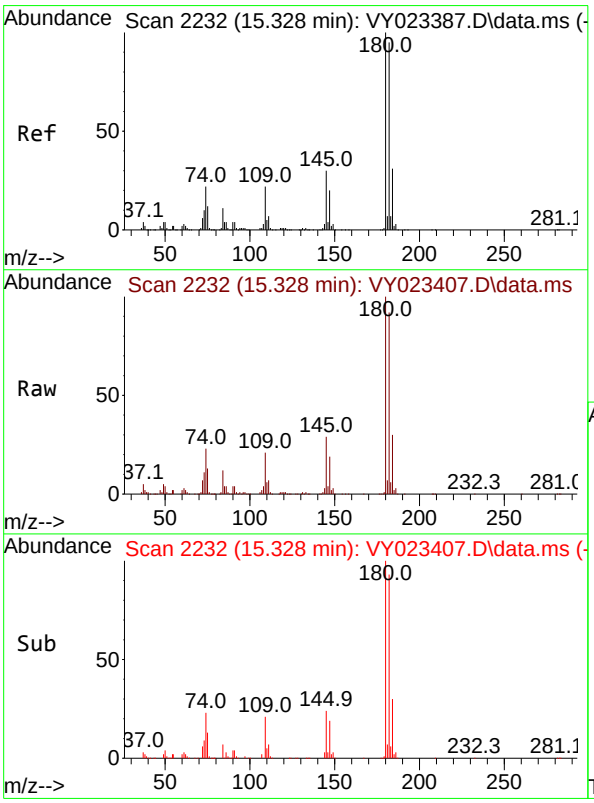
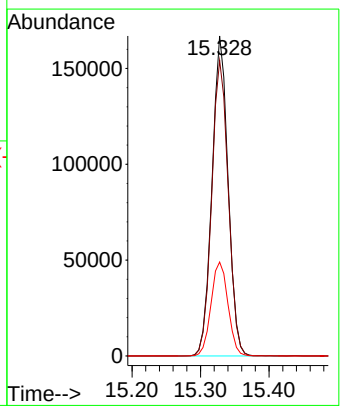



#96
1,2,3-Trichlorobenzene
Concen: 46.727 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY023407.D
Acq: 09 Oct 2025 08:47

Tgt Ion:180 Resp: 272296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 47.9 | 143.8 |
| 145 | 30.9 | 15.3 | 45.9 |



Sample Results: **VY023407.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023407.D
Acq On : 09 Oct 2025 08:47
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: Oct 10 04:19:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.360 | 0.325 | 9.7 | 93 | 0.00 |
| 3 | P | Chloromethane | 0.490 | 0.457 | 6.7 | 93 | 0.00 |
| 4 | C | Vinyl Chloride | 0.639 | 0.603 | 5.6# | 92 | 0.00 |
| 5 | T | Bromomethane | 0.536 | 0.486 | 9.3 | 95 | 0.00 |
| 6 | T | Chloroethane | 0.435 | 0.429 | 1.4 | 95 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.887 | 0.840 | 5.3 | 91 | 0.00 |
| 8 | T | Diethyl Ether | 0.232 | 0.222 | 4.3 | 95 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.460 | 0.464 | -0.9 | 97 | 0.00 |
| 10 | T | Methyl Iodide | 0.512 | 0.560 | -9.4 | 95 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.031 | 0.027 | 12.9 | 98 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.446 | 0.439 | 1.6# | 94 | 0.00 |
| 13 | T | Acrolein | 0.044 | 0.035 | 20.5 | 76 | 0.00 |
| 14 | T | Allyl chloride | 0.544 | 0.536 | 1.5 | 93 | 0.00 |
| 15 | T | Acrylonitrile | 0.089 | 0.087 | 2.2 | 98 | 0.00 |
| 16 | T | Acetone | 0.100 | 0.108 | -8.0 | 119 | 0.00 |
| 17 | T | Carbon Disulfide | 1.277 | 1.281 | -0.3 | 96 | 0.00 |
| 18 | T | Methyl Acetate | 0.261 | 0.259 | 0.8 | 97 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.072 | 1.059 | 1.2 | 95 | 0.00 |
| 20 | T | Methylene Chloride | 0.538 | 0.497 | 7.6 | 99 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.491 | 0.501 | -2.0 | 98 | 0.01 |
| 22 | T | Diisopropyl ether | 1.202 | 1.224 | -1.8 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 0.651 | 0.657 | -0.9 | 96 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.796 | 0.803 | -0.9 | 97 | 0.00 |
| 25 | T | 2-Butanone | 0.122 | 0.121 | 0.8 | 105 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.731 | 0.746 | -2.1 | 97 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.567 | 0.579 | -2.1 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 0.297 | 0.276 | 7.1 | 95 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.069 | 0.067 | 2.9 | 97 | 0.00 |
| 30 | C | Chloroform | 0.875 | 0.894 | -2.2# | 98 | 0.00 |
| 31 | T | Cyclohexane | 0.696 | 0.654 | 6.0 | 93 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.795 | 0.802 | -0.9 | 96 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.418 | 0.413 | 1.2 | 97 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.307 | 0.317 | -3.3 | 96 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.407 | 0.426 | -4.7 | 97 | 0.00 |
| 37 | T | Ethyl Acetate | 0.161 | 0.165 | -2.5 | 99 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.493 | 0.516 | -4.7 | 97 | 0.00 |
| 39 | T | Methylcyclohexane | 0.530 | 0.548 | -3.4 | 94 | 0.00 |
| 40 | TM | Benzene | 1.288 | 1.342 | -4.2 | 96 | 0.00 |
| 41 | T | Methacrylonitrile | 0.087 | 0.091 | -4.6 | 103 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.332 | 0.340 | -2.4 | 97 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.321 | 0.318 | 0.9 | 95 | 0.00 |
| 44 | TM | Trichloroethene | 0.377 | 0.386 | -2.4 | 95 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.285 | 0.296 | -3.9# | 98 | 0.00 |
| 46 | T | Dibromomethane | 0.180 | 0.192 | -6.7 | 100 | 0.00 |
| 47 | T | Bromodichloromethane | 0.453 | 0.475 | -4.9 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 0.151 | 0.152 | -0.7 | 93 | 0.00 |

Sample Results: **VY023407.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023407.D
Acq On : 09 Oct 2025 08:47
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: Oct 10 04:19:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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 | 86 | 0.00 |
| 50 | S | Toluene-d8 | 1.144 | 1.201 | -5.0 | 96 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.166 | 0.174 | -4.8 | 99 | 0.00 |
| 52 | CM | Toluene | 0.836 | 0.894 | -6.9# | 97 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.394 | 0.411 | -4.3 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.465 | 0.487 | -4.7 | 96 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.242 | 0.255 | -5.4 | 100 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.279 | 0.297 | -6.5 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.383 | 0.403 | -5.2 | 97 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.125 | 0.132 | -5.6 | 92 | 0.00 |
| 59 | T | 2-Hexanone | 0.119 | 0.126 | -5.9 | 101 | 0.00 |
| 60 | T | Dibromochloromethane | 0.339 | 0.355 | -4.7 | 98 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.231 | 0.241 | -4.3 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.378 | 0.383 | -1.3 | 95 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 64 | T | Tetrachloroethene | 0.516 | 0.534 | -3.5 | 95 | 0.00 |
| 65 | PM | Chlorobenzene | 1.087 | 1.103 | -1.5 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.388 | 0.396 | -2.1 | 99 | 0.00 |
| 67 | C | Ethyl Benzene | 1.760 | 1.836 | -4.3# | 96 | 0.00 |
| 68 | T | m/p-Xylenes | 0.706 | 0.745 | -5.5 | 96 | 0.00 |
| 69 | T | o-Xylene | 0.662 | 0.689 | -4.1 | 95 | 0.00 |
| 70 | T | Styrene | 1.089 | 1.151 | -5.7 | 96 | 0.00 |
| 71 | P | Bromoform | 0.240 | 0.243 | -1.3 | 98 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 73 | T | Isopropylbenzene | 3.295 | 3.452 | -4.8 | 96 | 0.00 |
| 74 | T | N-amyl acetate | 0.592 | 0.591 | 0.2 | 94 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.539 | 0.537 | 0.4 | 99 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.441 | 0.417 | 5.4 | 89 | 0.00 |
| 77 | T | Bromobenzene | 0.876 | 0.881 | -0.6 | 96 | 0.00 |
| 78 | T | n-propylbenzene | 3.813 | 4.044 | -6.1 | 96 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.233 | 2.307 | -3.3 | 95 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.663 | 2.827 | -6.2 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.180 | 0.180 | 0.0 | 98 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.300 | 2.387 | -3.8 | 96 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.458 | 2.560 | -4.1 | 93 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.657 | 2.812 | -5.8 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.527 | 3.735 | -5.9 | 96 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.003 | 3.190 | -6.2 | 95 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.706 | 1.710 | -0.2 | 95 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.685 | 1.673 | 0.7 | 95 | 0.00 |
| 89 | T | n-Butylbenzene | 2.616 | 2.748 | -5.0 | 94 | 0.00 |
| 90 | T | Hexachloroethane | 0.646 | 0.648 | -0.3 | 95 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.496 | 1.512 | -1.1 | 96 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.088 | 0.085 | 3.4 | 94 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.932 | 0.876 | 6.0 | 88 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.581 | 0.554 | 4.6 | 88 | 0.00 |
| 95 | T | Naphthalene | 1.485 | 1.384 | 6.8 | 87 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023407.D
Acq On : 09 Oct 2025 08:47
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: Oct 10 04:19:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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 | 0.808 | 0.755 | 6.6 | 88 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VY023407.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023407.D
Acq On : 09 Oct 2025 08:47
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: Oct 10 04:19:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 91 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 45.165 | 9.7 | 93 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 46.626 | 6.7 | 93 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 47.203 | 5.6# | 92 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 45.352 | 9.3 | 95 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 49.279 | 1.4 | 95 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 47.366 | 5.3 | 91 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 47.924 | 4.2 | 95 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 50.377 | -0.8 | 97 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 54.708 | -9.4 | 95 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 214.498 | 14.2 | 98 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 49.265 | 1.5# | 94 | 0.00 |
| 13 | T | Acrolein | 250.000 | 197.974 | 20.8 | 76 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 49.309 | 1.4 | 93 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 245.521 | 1.8 | 98 | 0.00 |
| 16 | T | Acetone | 250.000 | 272.492 | -9.0 | 119 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 50.177 | -0.4 | 96 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 49.553 | 0.9 | 97 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 49.411 | 1.2 | 95 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 46.200 | 7.6 | 99 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 51.043 | -2.1 | 98 | 0.01 |
| 22 | T | Diisopropyl ether | 50.000 | 50.913 | -1.8 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 252.202 | -0.9 | 96 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.397 | -0.8 | 97 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 249.190 | 0.3 | 105 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 51.041 | -2.1 | 97 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 51.065 | -2.1 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 46.377 | 7.2 | 95 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 243.679 | 2.5 | 97 | 0.00 |
| 30 | C | Chloroform | 50.000 | 51.069 | -2.1# | 98 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 47.019 | 6.0 | 93 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.415 | -0.8 | 96 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.431 | 1.1 | 97 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 90 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 51.511 | -3.0 | 96 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 52.425 | -4.8 | 97 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 51.143 | -2.3 | 99 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 52.336 | -4.7 | 97 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 51.695 | -3.4 | 94 | 0.00 |
| 40 | TM | Benzene | 50.000 | 52.081 | -4.2 | 96 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 52.260 | -4.5 | 103 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 51.228 | -2.5 | 97 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 49.451 | 1.1 | 95 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.229 | -2.5 | 95 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 52.011 | -4.0# | 98 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 53.275 | -6.5 | 100 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 52.430 | -4.9 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 50.315 | -0.6 | 93 | 0.00 |

Sample Results: **VY023407.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023407.D
Acq On : 09 Oct 2025 08:47
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: Oct 10 04:19:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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 | 903.627 | 9.6 | 86 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 52.497 | -5.0 | 96 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 261.942 | -4.8 | 99 | 0.00 |
| 52 | CM | Toluene | 50.000 | 53.439 | -6.9# | 97 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 52.141 | -4.3 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 52.320 | -4.6 | 96 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 52.802 | -5.6 | 100 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 53.280 | -6.6 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 52.603 | -5.2 | 97 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 263.940 | -5.6 | 92 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 264.747 | -5.9 | 101 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 52.392 | -4.8 | 98 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 52.230 | -4.5 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 50.706 | -1.4 | 95 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 93 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 51.752 | -3.5 | 95 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.723 | -1.4 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.134 | -2.3 | 99 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 52.144 | -4.3# | 96 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 105.533 | -5.5 | 96 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 52.013 | -4.0 | 95 | 0.00 |
| 70 | T | Styrene | 50.000 | 52.844 | -5.7 | 96 | 0.00 |
| 71 | P | Bromoform | 50.000 | 50.460 | -0.9 | 98 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 52.380 | -4.8 | 96 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 49.925 | 0.2 | 94 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 49.838 | 0.3 | 99 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 47.221 | 5.6 | 89 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.268 | -0.5 | 96 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 53.022 | -6.0 | 96 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 51.650 | -3.3 | 95 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 53.093 | -6.2 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 49.916 | 0.2 | 98 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 51.889 | -3.8 | 96 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 52.071 | -4.1 | 93 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 52.908 | -5.8 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 52.950 | -5.9 | 96 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 53.120 | -6.2 | 95 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.135 | -0.3 | 95 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 49.641 | 0.7 | 95 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 52.515 | -5.0 | 94 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 50.206 | -0.4 | 95 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 50.554 | -1.1 | 96 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.006 | 4.0 | 94 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 47.003 | 6.0 | 88 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 47.679 | 4.6 | 88 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 46.618 | 6.8 | 87 | 0.00 |

Sample Results: **VY023407.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023407.D
Acq On : 09 Oct 2025 08:47
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: Oct 10 04:19:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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 | 46.727 | 6.5 | 88 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

# QC SAMPLE DATA

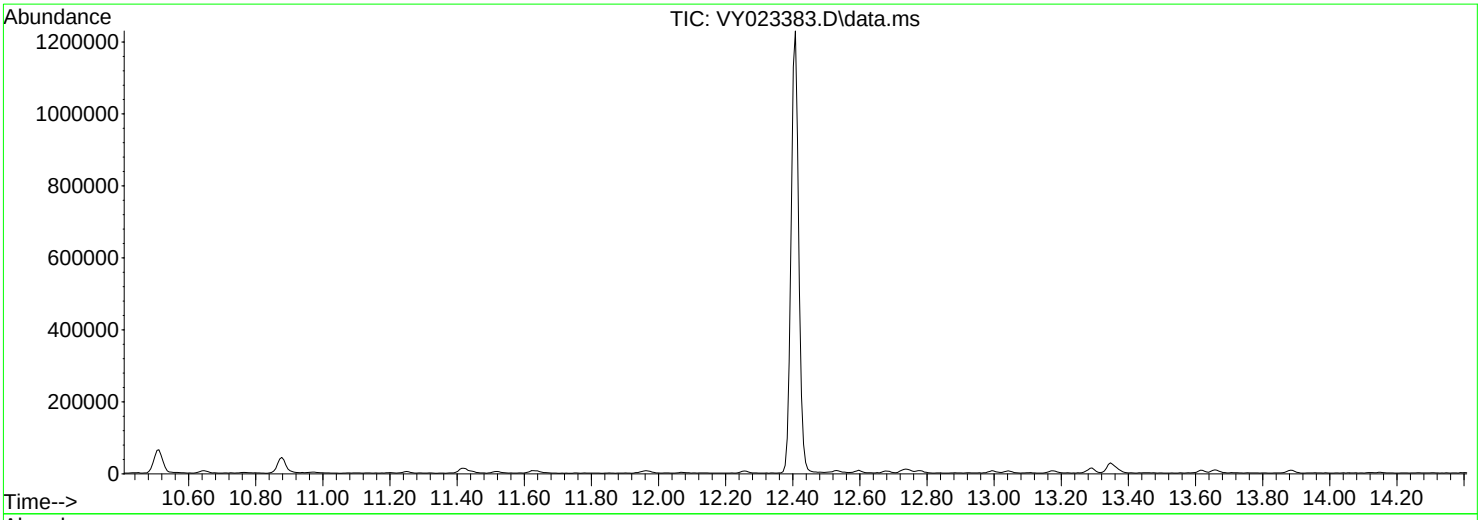
Sample Results: **VY023383.D**

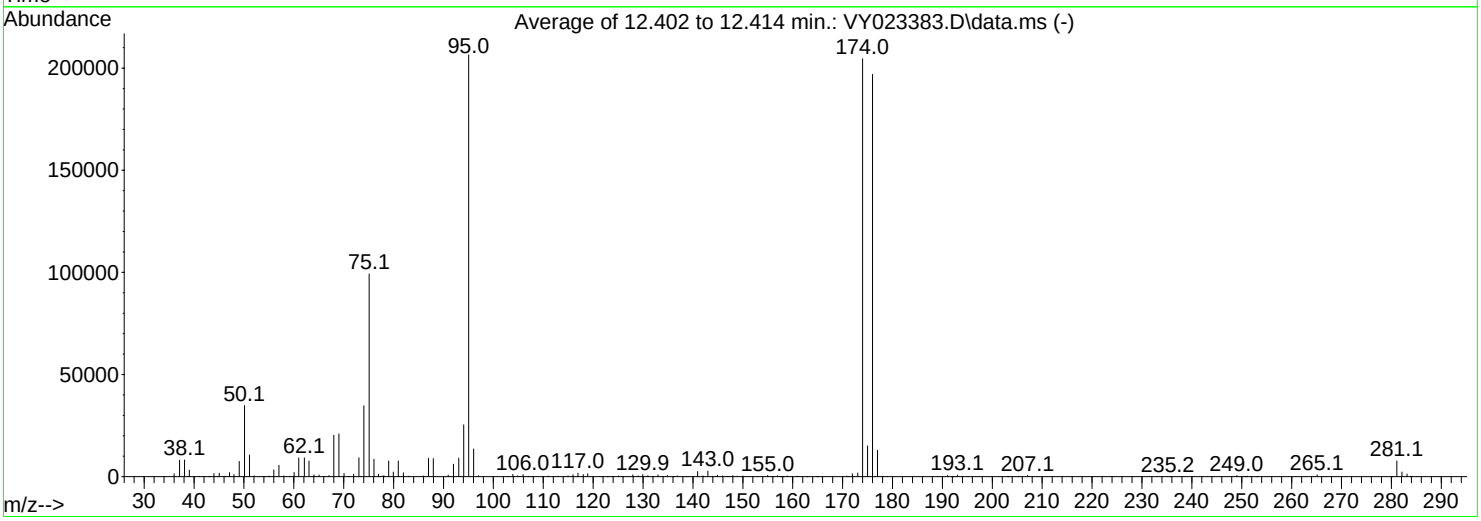
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023383.D
Acq On : 07 Oct 2025 08:43
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Title : SW846 8260
Last Update : Wed Oct 08 05:12:50 2025




AutoFind: Scans 1752, 1753, 1754; 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 | 16.9 | 34816 | PASS |
| 75 | 95 | 30 | 60 | 48.1 | 99264 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 206507 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 13540 | PASS |
| 173 | 174 | 0.00 | 2 | 0.9 | 1817 | PASS |
| 174 | 95 | 50 | 100 | 99.1 | 204629 | PASS |
| 175 | 174 | 5 | 9 | 7.4 | 15059 | PASS |
| 176 | 174 | 95 | 101 | 96.2 | 196949 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 12912 | PASS |

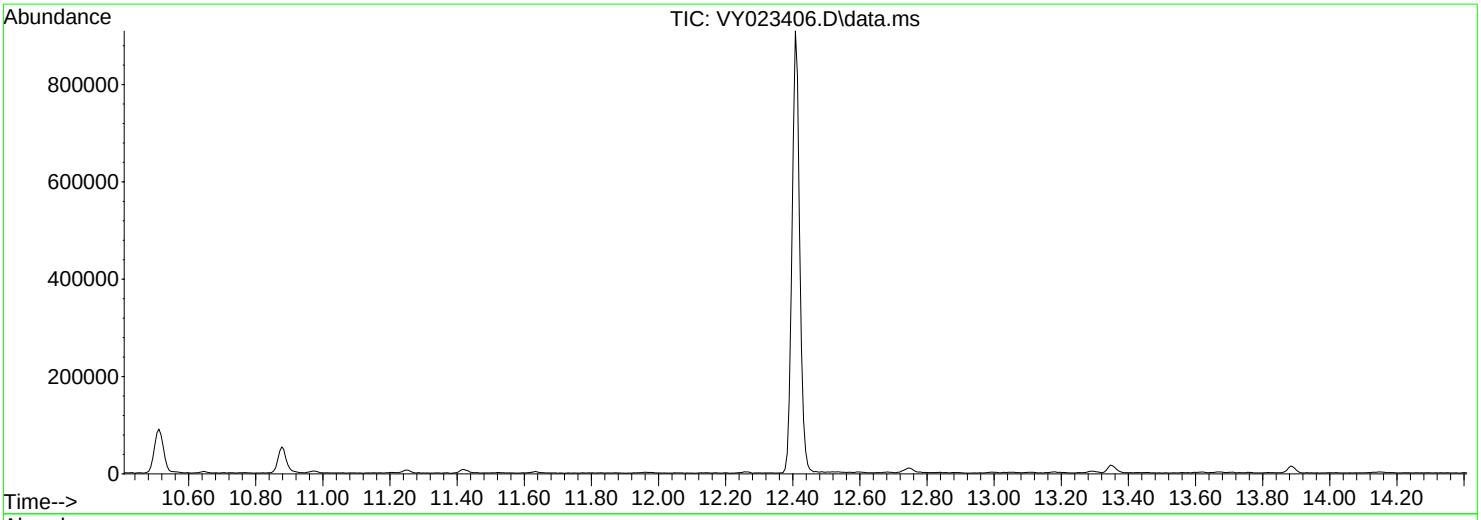
Sample Results: **VY023406.D**

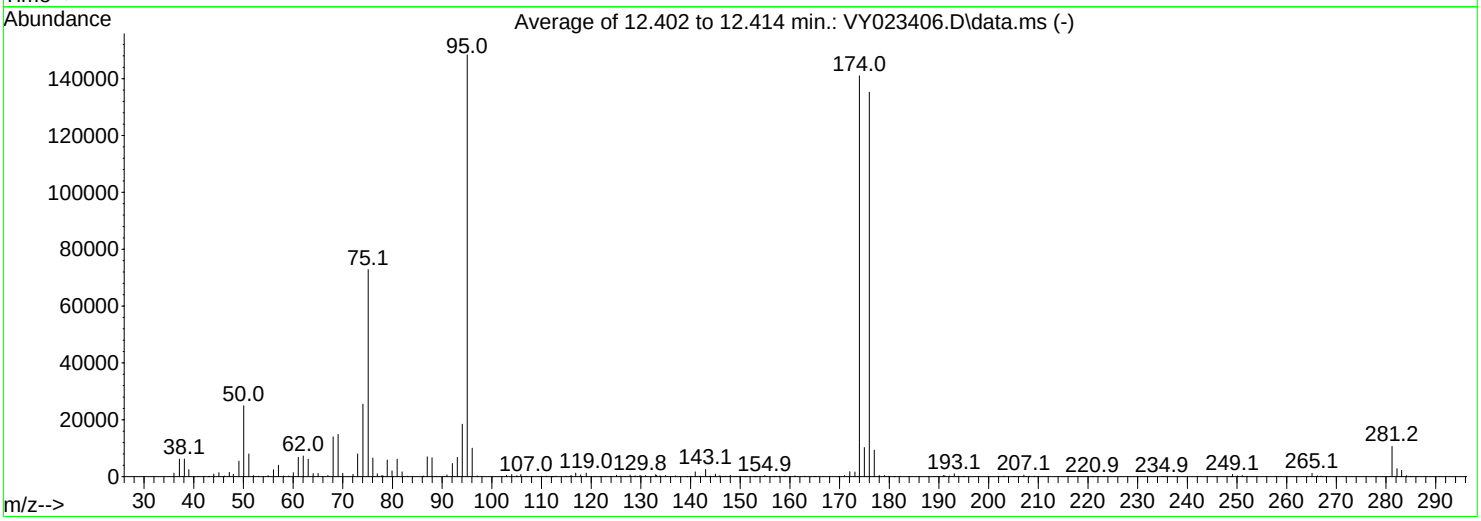
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023406.D
Acq On : 09 Oct 2025 08:16
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Title : SW846 8260
Last Update : Wed Oct 08 05:12:50 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 | 16.8 | 24923 | PASS |
| 75 | 95 | 30 | 60 | 49.1 | 72837 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 148373 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 10026 | PASS |
| 173 | 174 | 0.00 | 2 | 1.1 | 1617 | PASS |
| 174 | 95 | 50 | 100 | 95.0 | 141019 | PASS |
| 175 | 174 | 5 | 9 | 7.3 | 10229 | PASS |
| 176 | 174 | 95 | 101 | 95.9 | 135248 | PASS |
| 177 | 176 | 5 | 9 | 6.9 | 9326 | PASS |

Raw Data: **VY023408.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | |
| Project: | RFP 918 | Date Received: | |
| Client Sample ID: | VY1009SBL01 | SDG No.: | Q3321 |
| Lab Sample ID: | VY1009SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023408.D | 1 | 10/09/25 09:16 | VY100925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 1.30 | U | 1.30 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.20 | U | 1.20 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 1.00 | U | 1.00 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 4.70 | U | 4.70 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.73 | U | 0.73 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.50 | U | 1.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 3.50 | U | 3.50 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.86 | U | 0.86 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.80 | U | 0.80 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 6.50 | U | 6.50 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.97 | U | 0.97 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.75 | U | 0.75 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.20 | U | 1.20 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 0.84 | U | 0.84 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.93 | U | 0.93 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.91 | U | 0.91 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.81 | U | 0.81 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.91 | U | 0.91 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.60 | U | 3.60 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 0.78 | U | 0.78 | 5.00 | ug/Kg |

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | |
| Project: | RFP 918 | Date Received: | |
| Client Sample ID: | VY1009SBL01 | SDG No.: | Q3321 |
| Lab Sample ID: | VY1009SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023408.D | 1 | 10/09/25 09:16 | VY100925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.65 | U | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.62 | U | 0.62 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.92 | U | 0.92 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.70 | U | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.87 | U | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.88 | U | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.91 | U | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.20 | U | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 0.82 | U | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 0.71 | U | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.86 | U | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.20 | U | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.70 | U | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.60 | U | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.50 | U | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.80 | U | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.00 | U | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.20 | U | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 63.4 | | 63 - 155 | 127% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.5 | | 70 - 134 | 109% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.1 | | 74 - 123 | 104% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.8 | | 17 - 146 | 100% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 587000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1150000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 1110000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 467000 | 13.346 | | | |

Raw Data: **VY023408.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | |
| Project: | RFP 918 | Date Received: | |
| Client Sample ID: | VY1009SBL01 | SDG No.: | Q3321 |
| Lab Sample ID: | VY1009SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023408.D | 1 | 10/09/25 09:16 | VY100925 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023408.D
Acq On : 09 Oct 2025 09:16
Operator : SY/MD
Sample : VY1009SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBL01

Quant Time: Oct 10 04:20:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

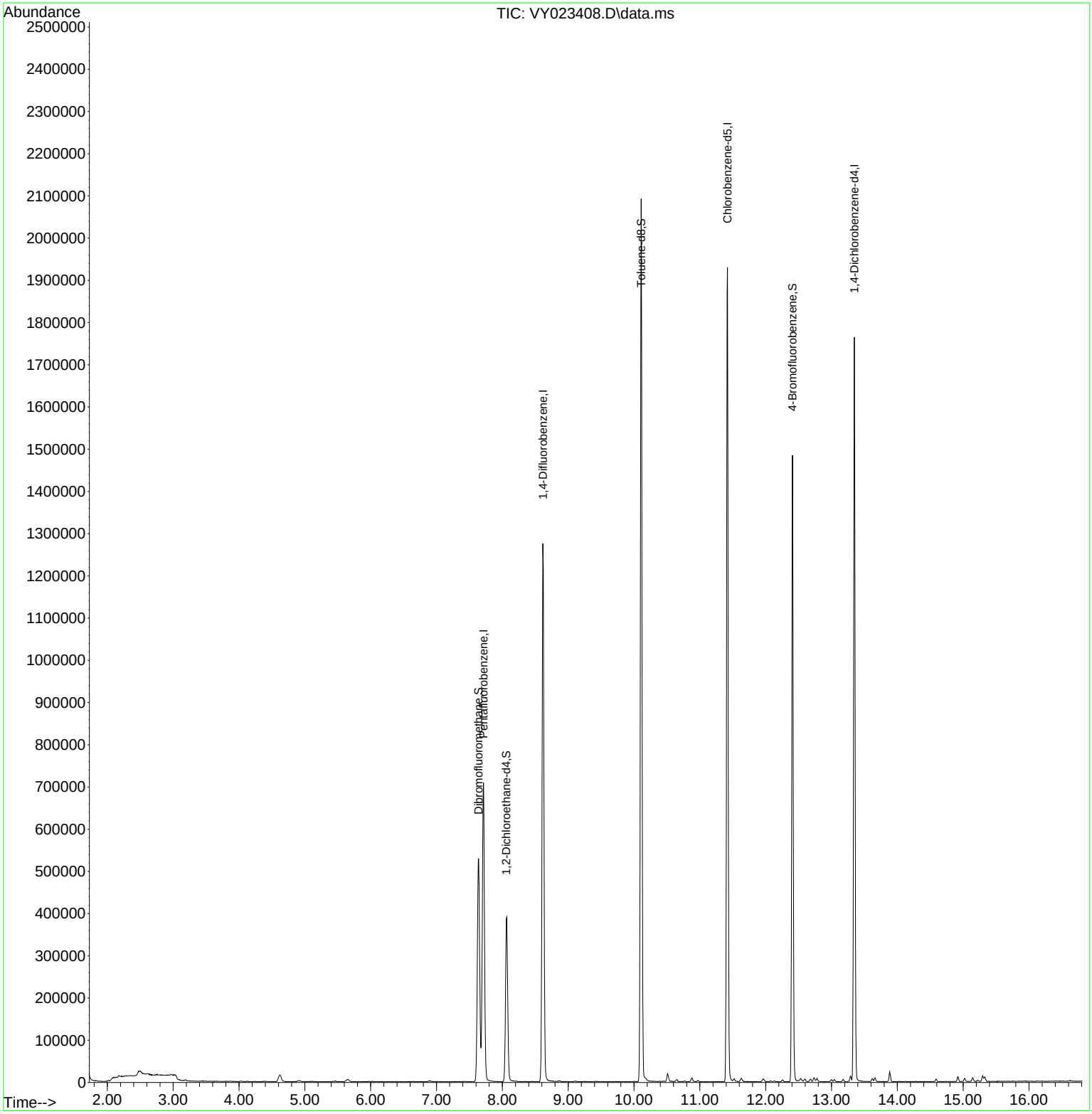
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 586622 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 1154324 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 1109408 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 466996 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 311166 | 63.433 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 126.860% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 386252 | 54.457 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 108.920% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 1375923 | 52.090 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 104.180% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 434618 | 49.838 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 99.680% | | | |
| Target Compounds | | | | | | Qvalue |

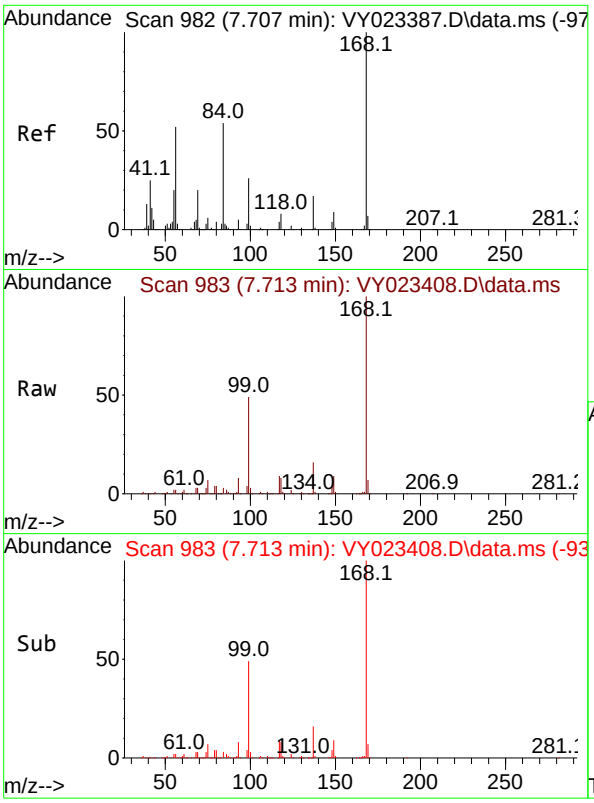
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023408.D
Acq On : 09 Oct 2025 09:16
Operator : SY/MD
Sample : VY1009SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBL01

Quant Time: Oct 10 04:20:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration



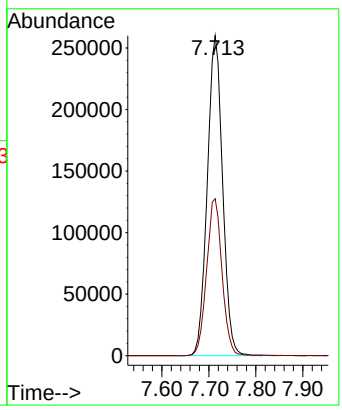


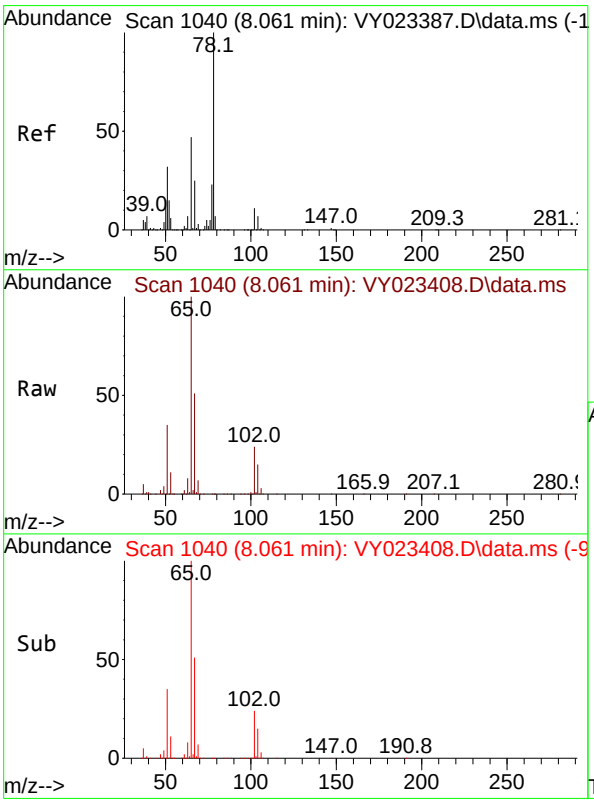

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023408.D
Acq: 09 Oct 2025 09:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBL01

Tgt Ion:168 Resp: 586622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 49.1 | 39.7 | 59.5 |

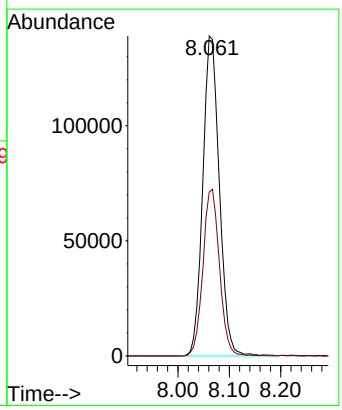


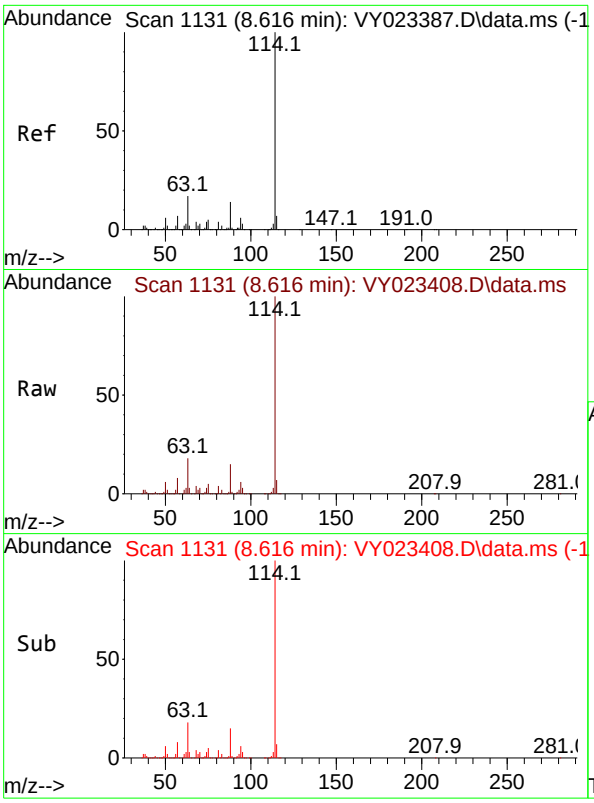




#33
1,2-Dichloroethane-d4
Concen: 63.433 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY023408.D
Acq: 09 Oct 2025 09:16

Tgt Ion: 65 Resp: 311166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.0 | 0.0 | 105.8 |



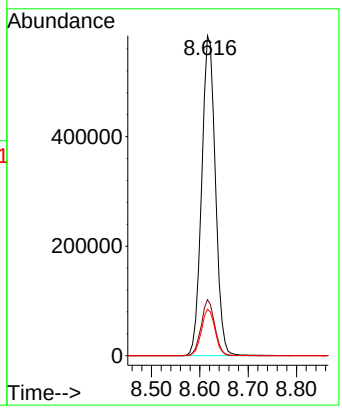


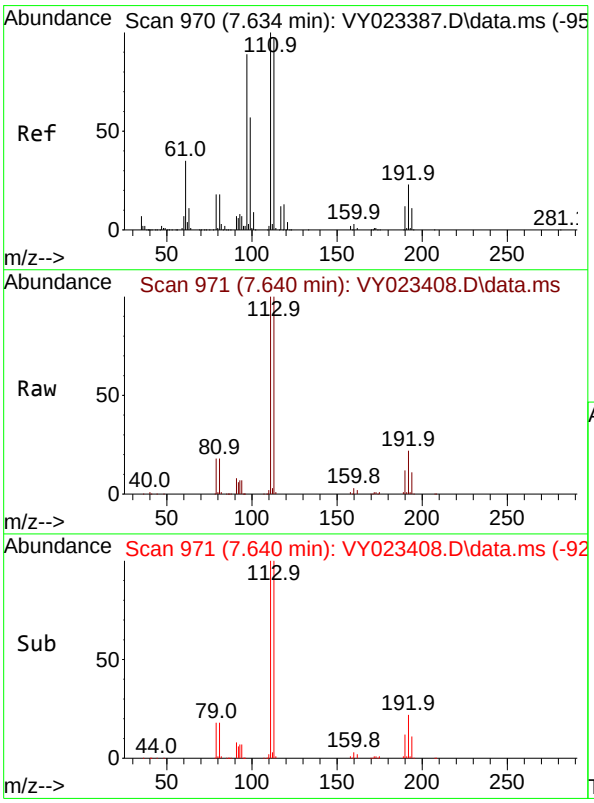

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023408.D
Acq: 09 Oct 2025 09:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBL01

Tgt Ion:114 Resp: 1154324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.5 | 0.0 | 34.2 |
| 88 | 14.5 | 0.0 | 28.4 |

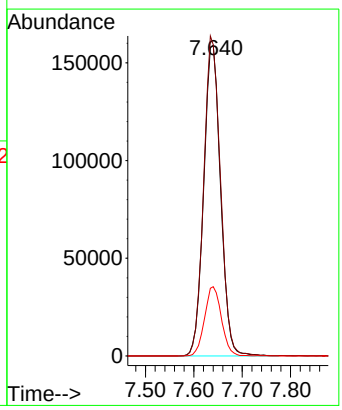


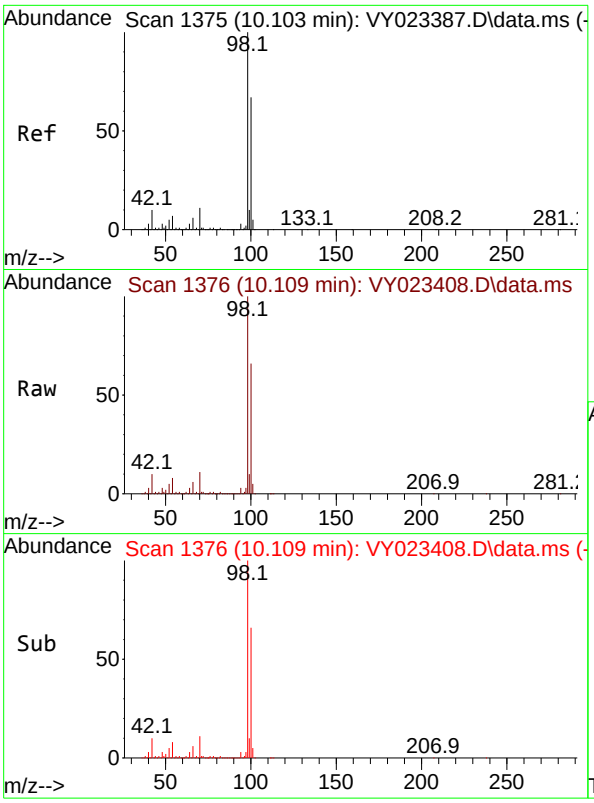




#35
Dibromofluoromethane
Concen: 54.457 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023408.D
Acq: 09 Oct 2025 09:16

Tgt Ion:113 Resp: 386252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.3 | 81.8 | 122.6 |
| 192 | 22.2 | 18.0 | 27.0 |



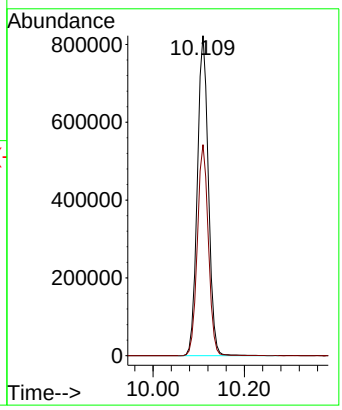


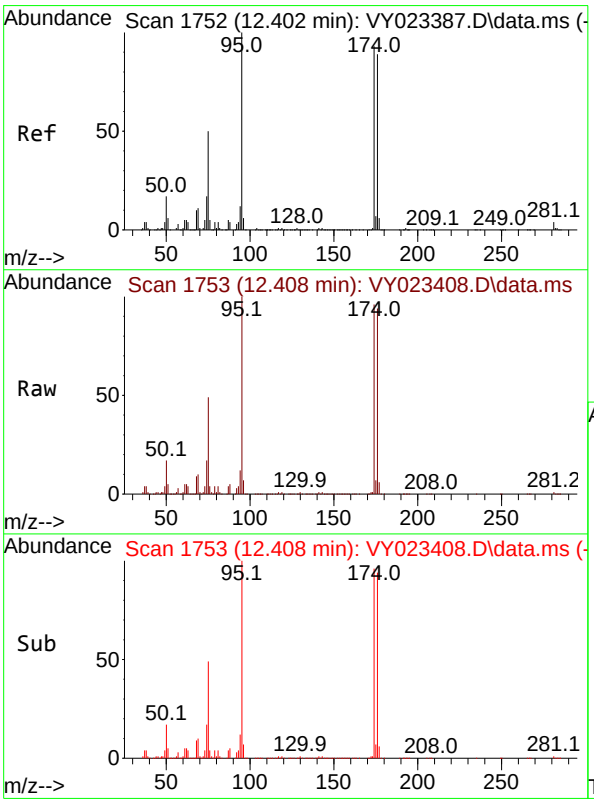

#50
Toluene-d8
Concen: 52.090 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023408.D
Acq: 09 Oct 2025 09:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBL01

Tgt Ion: 98 Resp: 1375923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.6 | 53.0 | 79.4 |

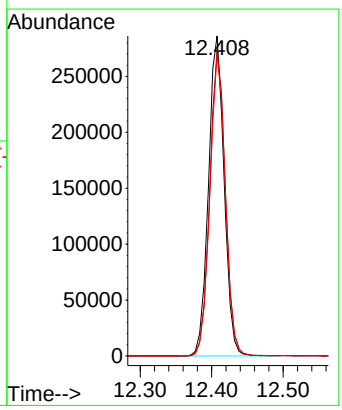


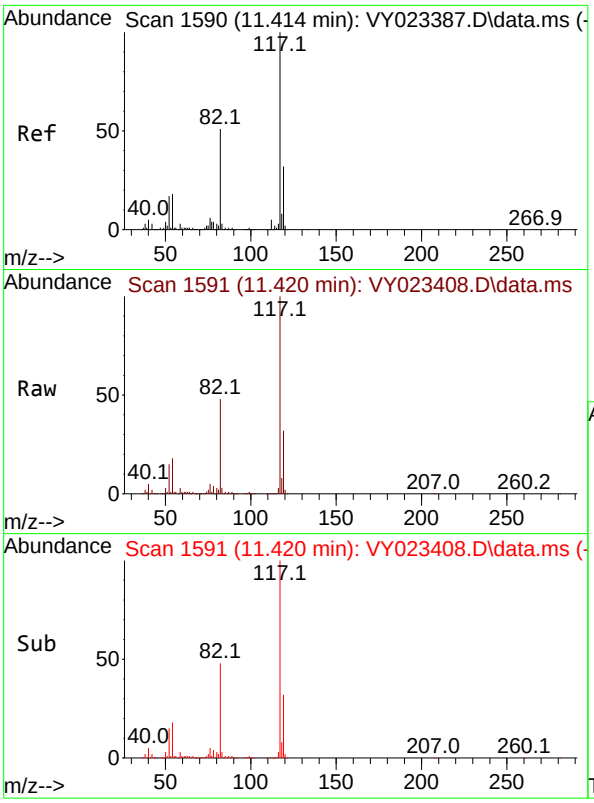




#62
4-Bromofluorobenzene
Concen: 49.838 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023408.D
Acq: 09 Oct 2025 09:16

Tgt Ion: 95 Resp: 434618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 95.2 | 0.0 | 192.8 |
| 176 | 92.8 | 0.0 | 187.6 |



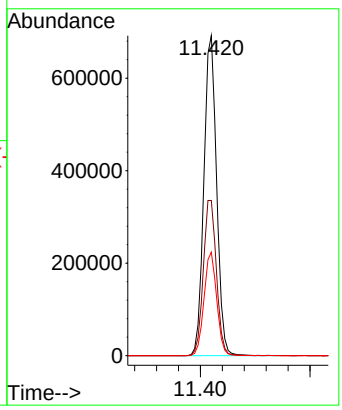


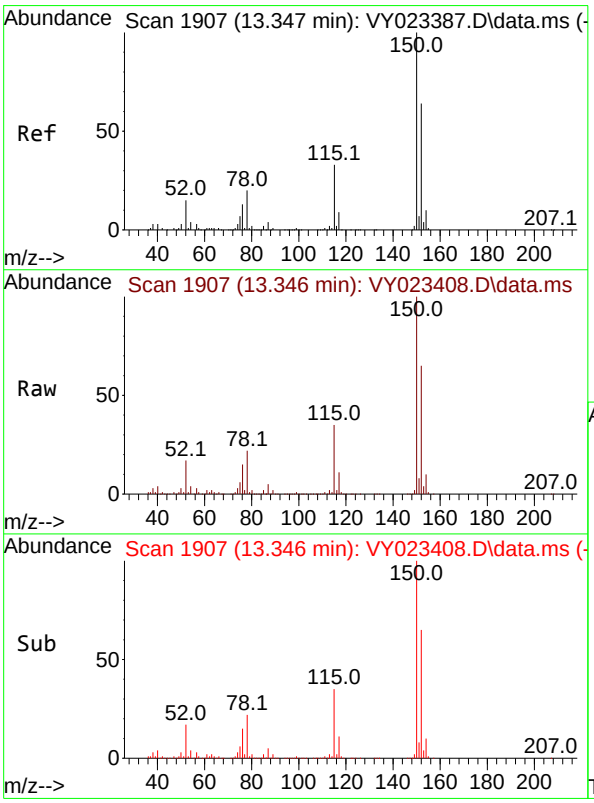

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023408.D
Acq: 09 Oct 2025 09:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBL01

Tgt Ion:117 Resp: 1109408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 48.5 | 41.0 | 61.4 |
| 119 | 32.3 | 25.6 | 38.4 |

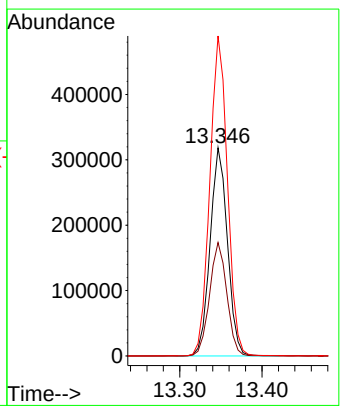



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023408.D
Acq: 09 Oct 2025 09:16

Tgt Ion:152 Resp: 466996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 54.3 | 27.1 | 81.2 |
| 150 | 156.1 | 0.0 | 347.4 |



Sample Results: **VY023408.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023408.D
Acq On : 09 Oct 2025 09:16
Operator : SY/MD
Sample : VY1009SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Title : SW846 8260

Signal : TIC: VY023408.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.622 | 466 | 476 | 490 | rVB3 | 15461 | 51428 | 1.46% | 0.286% |
| 2 | 7.634 | 955 | 970 | 977 | rBV | 528154 | 1302968 | 36.92% | 7.248% |
| 3 | 7.713 | 977 | 983 | 999 | rVB | 706456 | 1591410 | 45.10% | 8.852% |
| 4 | 8.067 | 1029 | 1041 | 1052 | rBV | 389901 | 881664 | 24.98% | 4.904% |
| 5 | 8.616 | 1122 | 1131 | 1147 | rBV | 1274475 | 2509008 | 71.10% | 13.957% |
| 6 | 10.109 | 1368 | 1376 | 1398 | rBV | 2091329 | 3528850 | 100.00% | 19.630% |
| 7 | 11.420 | 1583 | 1591 | 1604 | rBV | 1928223 | 3164824 | 89.68% | 17.605% |
| 8 | 12.408 | 1745 | 1753 | 1766 | rBV | 1484344 | 2286890 | 64.81% | 12.721% |
| 9 | 13.346 | 1901 | 1907 | 1921 | rVB | 1762087 | 2623641 | 74.35% | 14.594% |
| 10 | 13.883 | 1988 | 1995 | 2001 | rVB | 23512 | 36456 | 1.03% | 0.203% |

Sum of corrected areas: 17977139

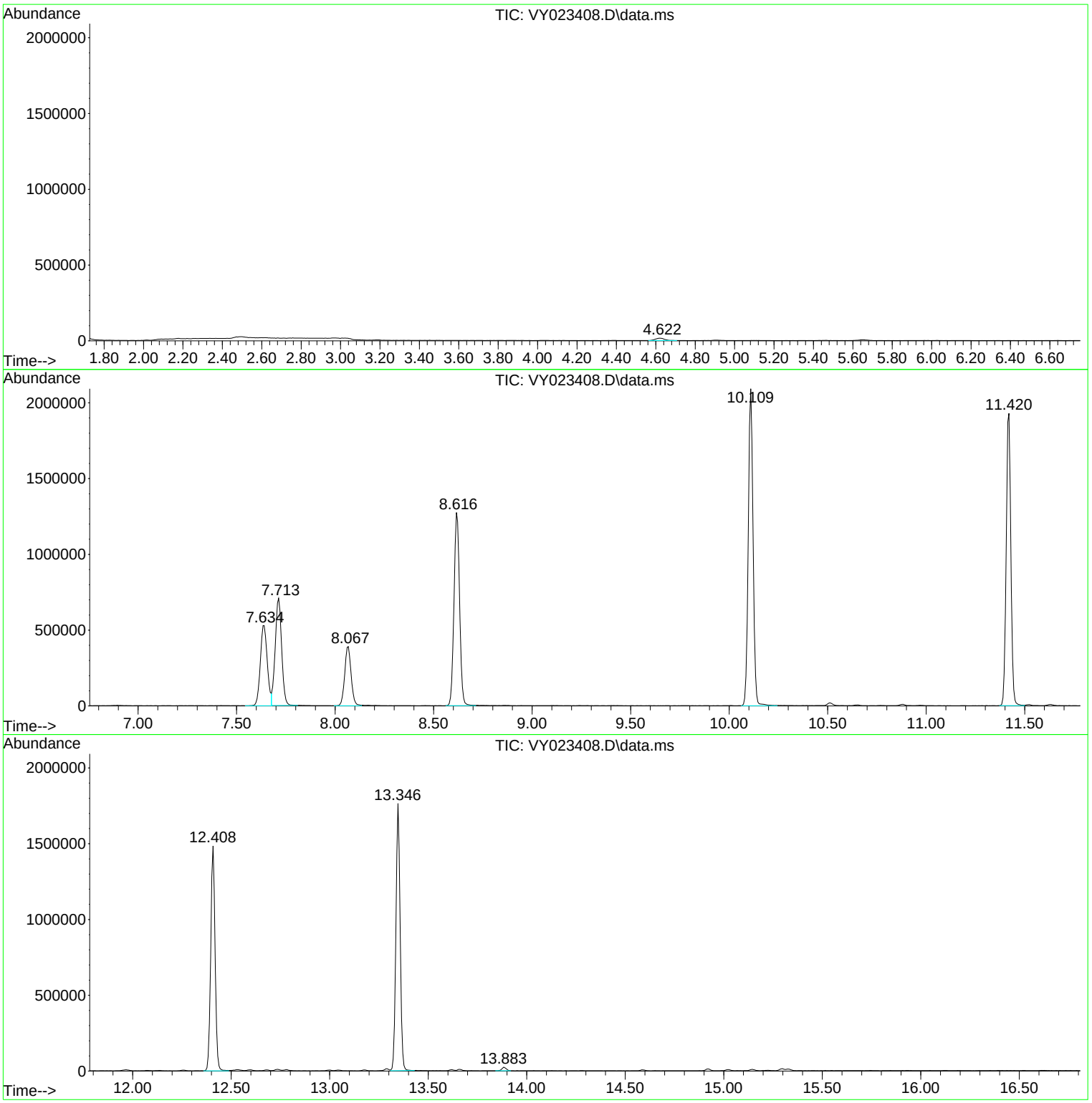
Sample Results: **VY023408.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023408.D
Acq On : 09 Oct 2025 09:16
Operator : SY/MD
Sample : VY1009SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY023408.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023408.D
Acq On : 09 Oct 2025 09:16
Operator : SY/MD
Sample : VY1009SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023408.D
Acq On : 09 Oct 2025 09:16
Operator : SY/MD
Sample : VY1009SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

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

Raw Data: **VY023409.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | |
| Project: | RFP 918 | Date Received: | |
| Client Sample ID: | VY1009SBS01 | SDG No.: | Q3321 |
| Lab Sample ID: | VY1009SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023409.D | 1 | 10/09/25 09:45 | VY100925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 21.1 | | 1.10 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 19.7 | | 1.10 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 19.5 | | 0.79 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 20.2 | | 1.10 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 20.4 | | 1.30 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 19.7 | | 1.20 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 20.9 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 19.8 | | 1.00 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 120 | | 4.70 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 20.5 | | 1.10 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 18.6 | | 0.73 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 16.0 | | 1.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 18.8 | | 3.50 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 20.3 | | 0.86 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 20.3 | | 0.80 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 19.7 | | 0.79 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 110 | | 6.50 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 20.6 | | 0.97 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 19.8 | | 0.75 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 20.0 | | 1.20 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 20.2 | | 0.84 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 20.1 | | 0.93 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 20.1 | | 0.91 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 20.8 | | 0.79 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 19.8 | | 0.79 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 20.2 | | 0.81 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 20.6 | | 0.91 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.0 | | 0.78 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 91.7 | | 3.60 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 20.4 | | 0.78 | 5.00 | ug/Kg |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | |
| Project: | RFP 918 | Date Received: | |
| Client Sample ID: | VY1009SBS01 | SDG No.: | Q3321 |
| Lab Sample ID: | VY1009SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023409.D | 1 | 10/09/25 09:45 | VY100925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 18.8 | | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 19.6 | | 0.62 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 19.5 | | 0.92 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 100 | | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 19.9 | | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 19.4 | | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 19.4 | | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 19.8 | | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 19.9 | | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 39.9 | | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 19.6 | | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 19.7 | | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 18.4 | | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 19.9 | | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 19.4 | | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 19.5 | | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 19.5 | | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 19.3 | | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 17.7 | | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 17.4 | | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 17.1 | | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 45.8 | | 63 - 155 | 92% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 47.9 | | 70 - 134 | 96% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.9 | | 74 - 123 | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.0 | | 17 - 146 | 92% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 564000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 822000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 728000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 377000 | 13.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | |
| Project: | RFP 918 | Date Received: | |
| Client Sample ID: | VY1009SBS01 | SDG No.: | Q3321 |
| Lab Sample ID: | VY1009SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023409.D | 1 | 10/09/25 09:45 | VY100925 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023409.D
Acq On : 09 Oct 2025 09:45
Operator : SY/MD
Sample : VY1009SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 10 04:21:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 563762 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 821828 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 727518 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 376801 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 215871 | 45.791 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 91.580% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 241758 | 47.875 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 95.760% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 900230 | 47.870 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 95.740% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 285471 | 45.979 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 91.960% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 85749 | 21.131 | ug/l | 97 |
| 3) Chloromethane | 2.074 | 50 | 108685 | 19.661 | ug/l | 100 |
| 4) Vinyl Chloride | 2.208 | 62 | 140110 | 19.459 | ug/l | 100 |
| 5) Bromomethane | 2.598 | 94 | 122336 | 20.247 | ug/l | 98 |
| 6) Chloroethane | 2.739 | 64 | 100330 | 20.442 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 196750 | 19.681 | ug/l | 99 |
| 8) Diethyl Ether | 3.458 | 74 | 49795 | 19.062 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 108261 | 20.869 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 113175 | 19.597 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 33665 | 95.990 | ug/l | 95 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 99731 | 19.832 | ug/l | 94 |
| 13) Acrolein | 3.653 | 56 | 40278 | 81.277 | ug/l | 99 |
| 14) Allyl chloride | 4.391 | 41 | 116410 | 18.994 | ug/l | 98 |
| 15) Acrylonitrile | 5.061 | 53 | 90136 | 90.162 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 137624 | 122.625 | ug/l | 99 |
| 17) Carbon Disulfide | 4.110 | 76 | 294532 | 20.463 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 47012 | 15.968 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 224998 | 18.616 | ug/l | 99 |
| 20) Methylene Chloride | 4.616 | 84 | 113968 | 18.779 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 112414 | 20.304 | ug/l | 97 |
| 22) Diisopropyl ether | 6.025 | 45 | 265422 | 19.579 | ug/l | 96 |
| 23) Vinyl Acetate | 5.964 | 43 | 699897 | 95.380 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 182155 | 20.284 | ug/l | 97 |
| 25) 2-Butanone | 6.896 | 43 | 145773 | 106.390 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 172493 | 20.933 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 126574 | 19.791 | ug/l | 99 |
| 28) Bromochloromethane | 7.250 | 49 | 67024 | 19.993 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.268 | 42 | 67835 | 87.306 | ug/l | 97 |
| 30) Chloroform | 7.427 | 83 | 199370 | 20.207 | ug/l | 99 |
| 31) Cyclohexane | 7.707 | 56 | 154146 | 19.656 | ug/l | 93 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 180303 | 20.109 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 138589 | 20.730 | ug/l | 98 |
| 37) Ethyl Acetate | 6.994 | 43 | 51391 | 19.403 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 167157 | 20.621 | ug/l | 100 |
| 39) Methylcyclohexane | 9.109 | 83 | 174614 | 20.060 | ug/l | 96 |
| 40) Benzene | 8.085 | 78 | 439932 | 20.779 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023409.D
Acq On : 09 Oct 2025 09:45
Operator : SY/MD
Sample : VY1009SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 10 04:21:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 24922 | 17.398 | ug/l | # | 90 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 108207 | 19.817 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 96508 | 18.274 | ug/l | | 100 |
| 44) Trichloroethene | 8.866 | 130 | 125009 | 20.173 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 96247 | 20.582 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 58388 | 19.746 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.426 | 83 | 149191 | 20.033 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 42780 | 17.242 | ug/l | | 95 |
| 49) 1,4-Dioxane | 9.231 | 88 | 12246 | 357.190 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 250333 | 91.743 | ug/l | | 98 |
| 52) Toluene | 10.170 | 92 | 280105 | 20.376 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 122023 | 18.844 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 149849 | 19.607 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 77705 | 19.541 | ug/l | | 95 |
| 56) Ethyl methacrylate | 10.445 | 69 | 80772 | 17.609 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 123698 | 19.631 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 182196 | 88.669 | ug/l | | 99 |
| 59) 2-Hexanone | 10.762 | 43 | 197074 | 101.063 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.914 | 129 | 111195 | 19.945 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 73429 | 19.363 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 145594 | 19.382 | ug/l | | 96 |
| 65) Chlorobenzene | 11.444 | 112 | 314016 | 19.845 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 111165 | 19.715 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 509085 | 19.876 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 410062 | 39.916 | ug/l | | 99 |
| 69) o-Xylene | 11.956 | 106 | 188687 | 19.581 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 311804 | 19.677 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 64321 | 18.390 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 493259 | 19.864 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 77131 | 17.293 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 78596 | 19.352 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 58029m | 17.456 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 127908 | 19.376 | ug/l | | 98 |
| 78) n-propylbenzene | 12.597 | 91 | 580789 | 20.212 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 335010 | 19.909 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 402952 | 20.082 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 24605 | 18.150 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 347982 | 20.080 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 362790 | 19.582 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 403304 | 20.139 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 536485 | 20.186 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 455784 | 20.143 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 250678 | 19.500 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 248075 | 19.539 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 386693 | 19.613 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 97445 | 20.022 | ug/l | | 95 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 217274 | 19.278 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 11766 | 17.656 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 122058 | 17.372 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 83673 | 19.104 | ug/l | | 100 |
| 95) Naphthalene | 15.145 | 128 | 169222 | 15.125 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 104325 | 17.142 | ug/l | | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023409.D
Acq On : 09 Oct 2025 09:45
Operator : SY/MD
Sample : VY1009SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 10 04:21:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

| 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\VY100925\
Data File : VY023409.D
Acq On : 09 Oct 2025 09:45
Operator : SY/MD
Sample : VY1009SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 10 04:21:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations APPROVED**

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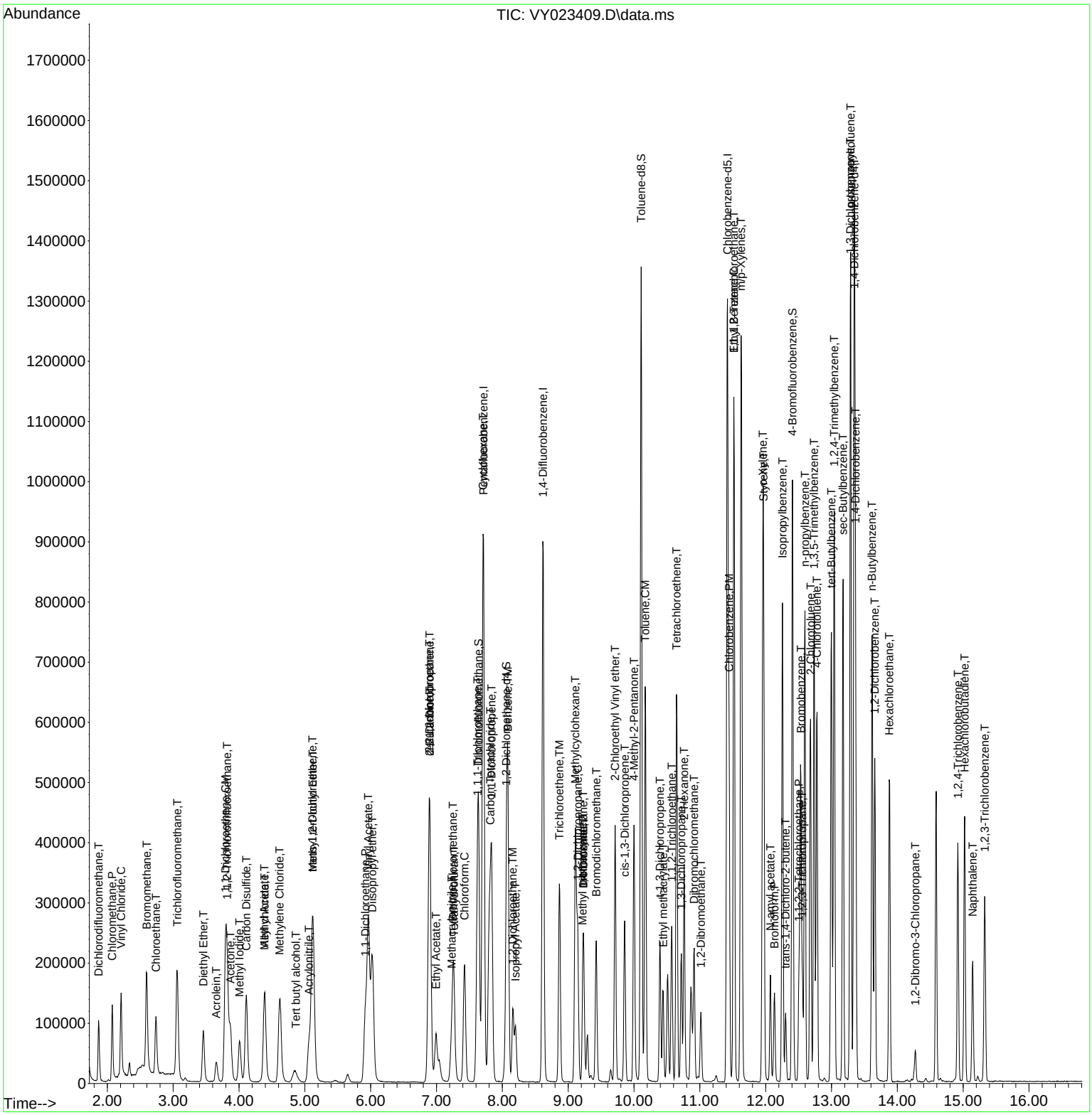
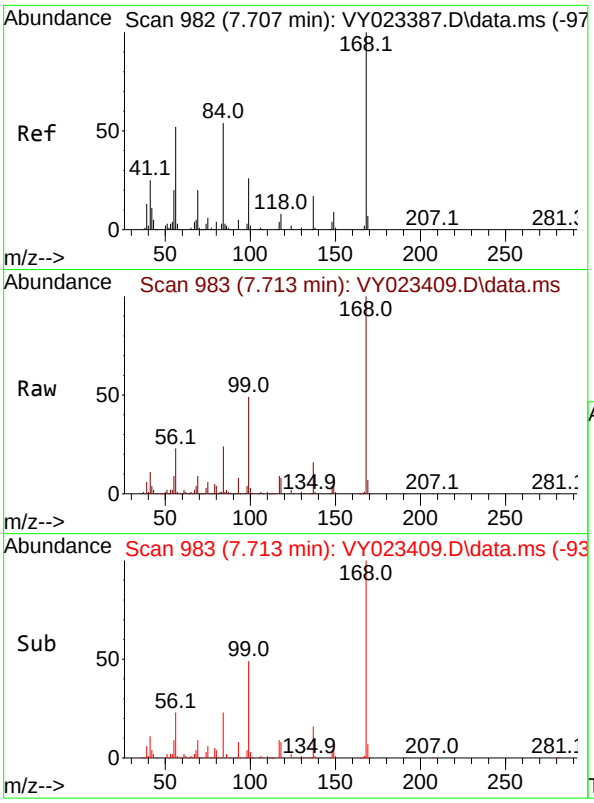
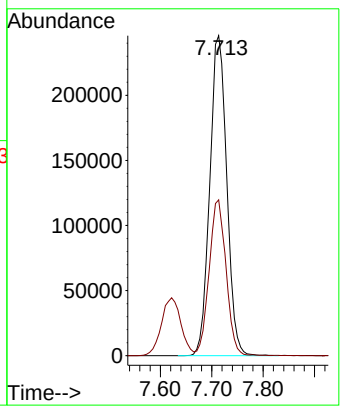





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:168 Resp: 56376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 48.6 | 39.7 | 59.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

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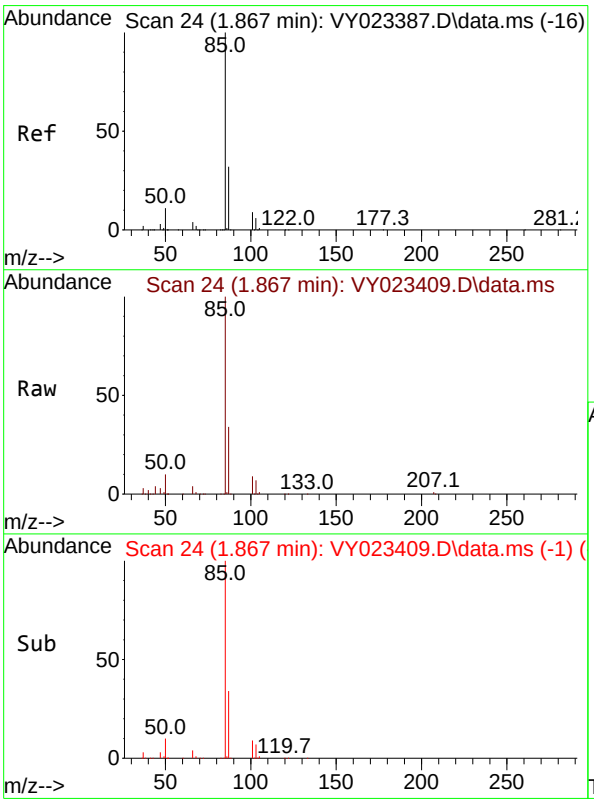
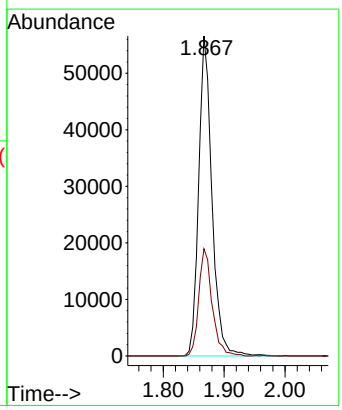
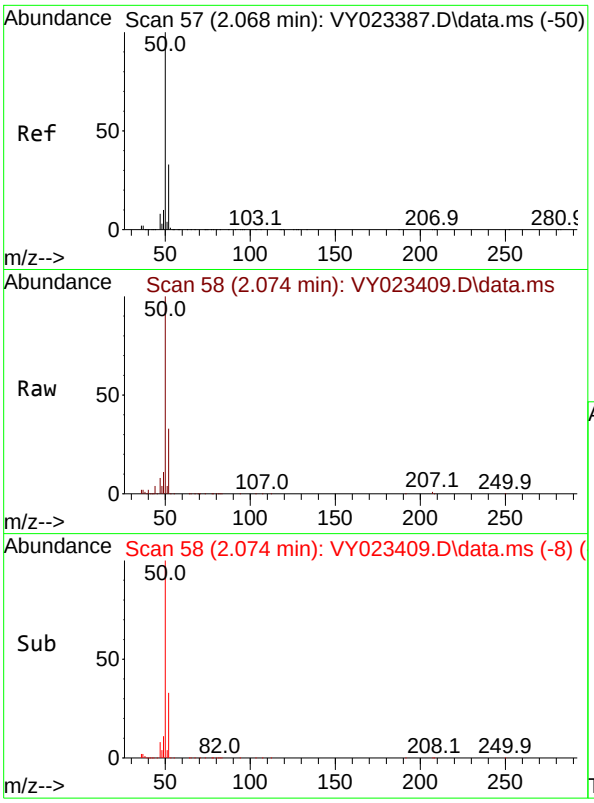



#2
Dichlorodifluoromethane
Concen: 21.131 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 85 Resp: 85749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.5 | 16.0 | 47.9 |

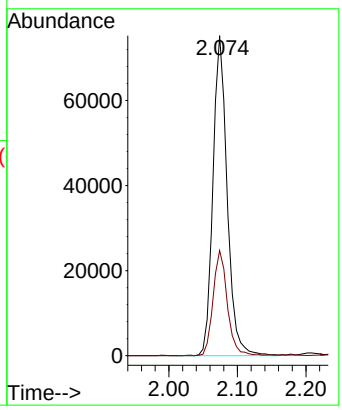





#3
Chloromethane
Concen: 19.661 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 50 Resp: 10868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.8 | 26.2 | 39.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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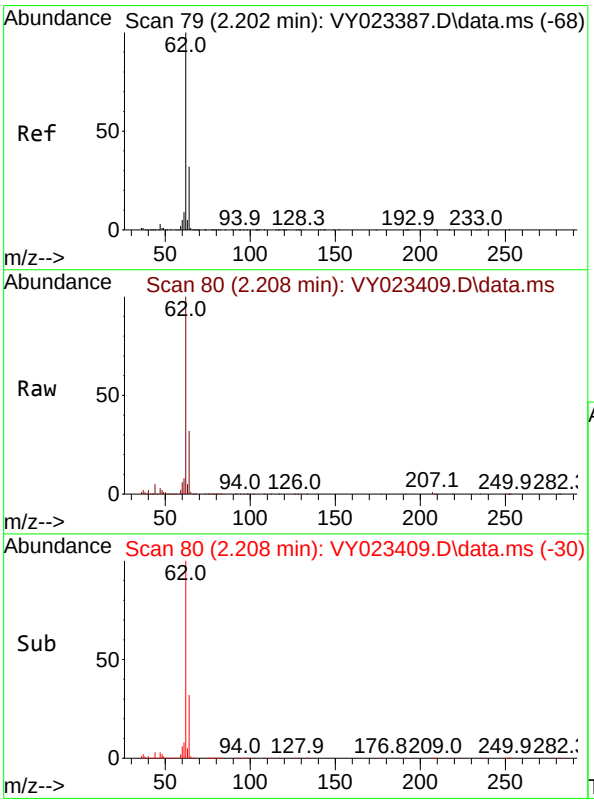
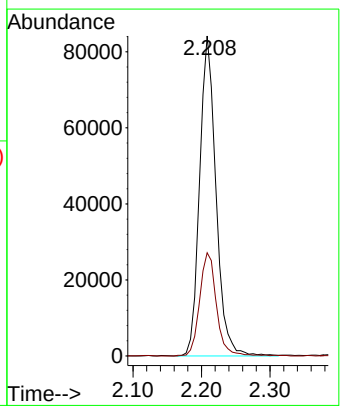
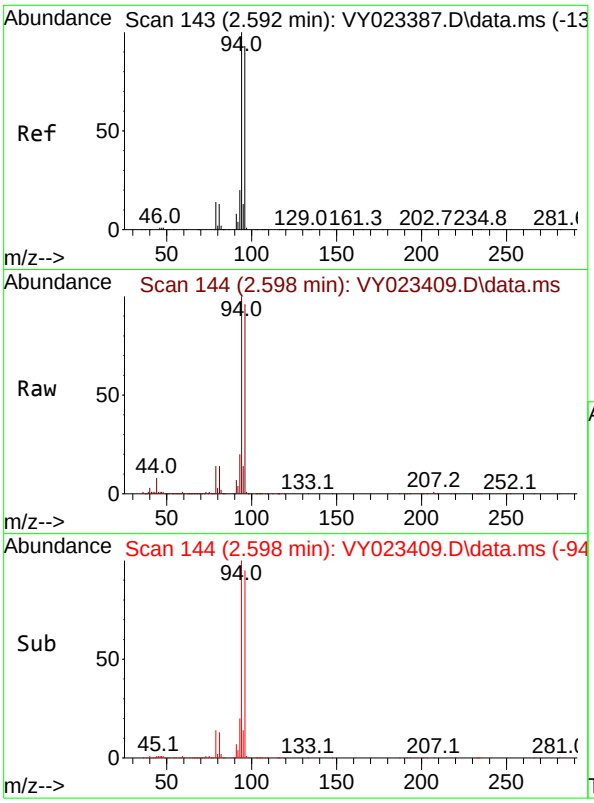



#4
Vinyl Chloride
Concen: 19.459 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 62 Resp: 140110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.1 | 25.8 | 38.8 |






#5
Bromomethane
Concen: 20.247 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 94 Resp: 12233(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.5 | 74.5 | 111.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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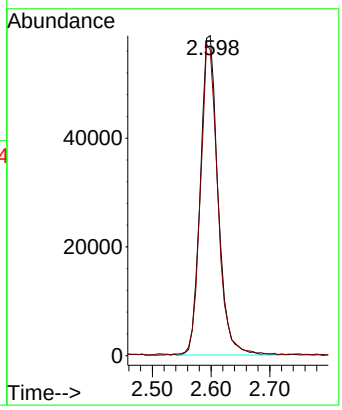
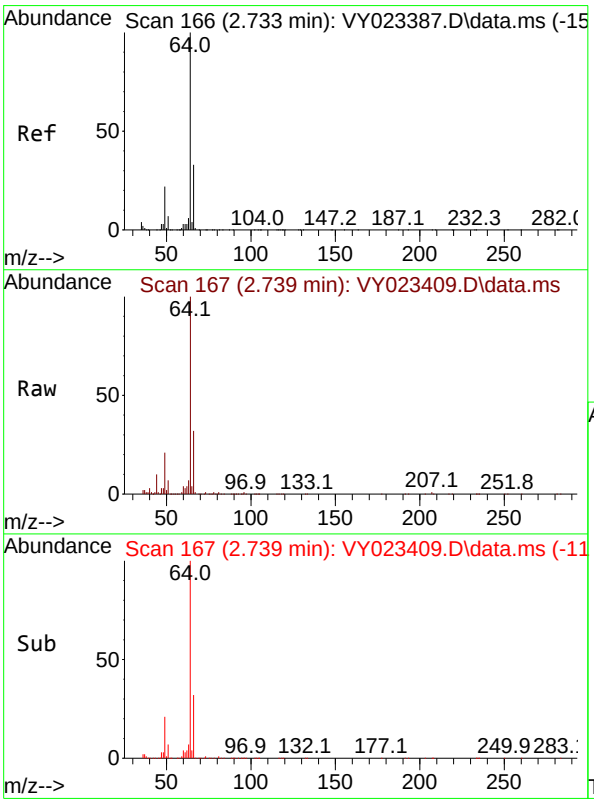
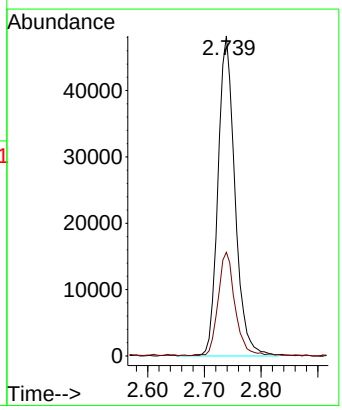


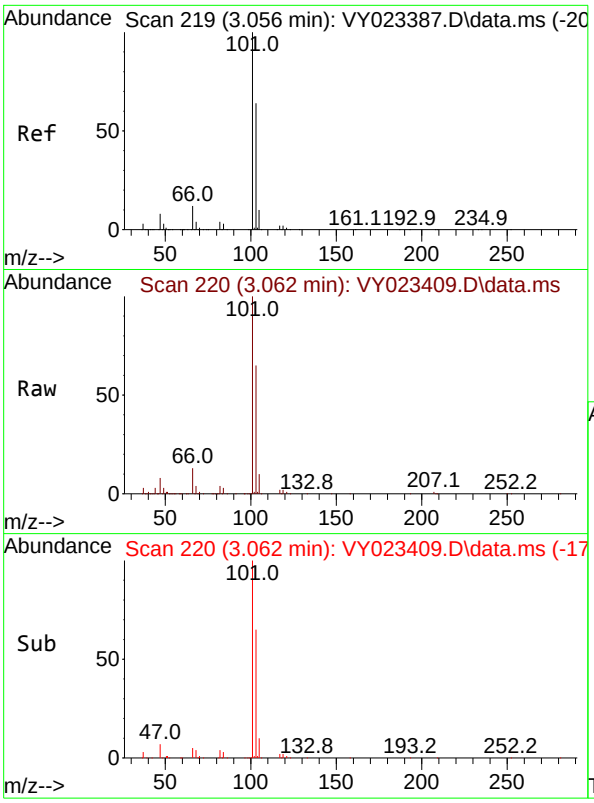




#6
Chloroethane
Concen: 20.442 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 64 Resp: 100330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.2 | 26.2 | 39.4 |






#7
Trichlorofluoromethane
Concen: 19.681 ug/l
RT: 3.062 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:101 Resp: 19675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.9 | 51.3 | 76.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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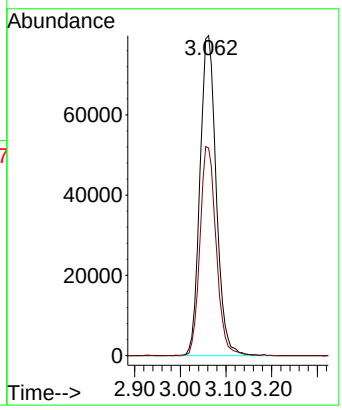
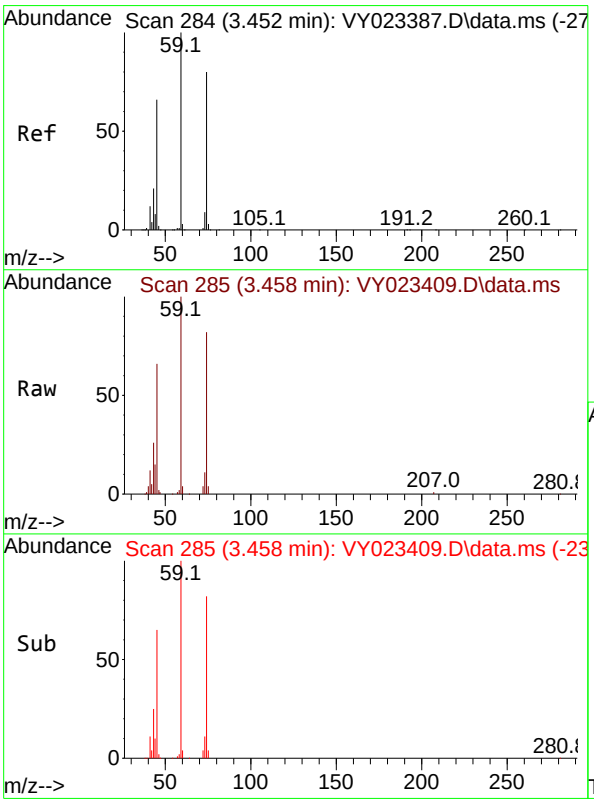
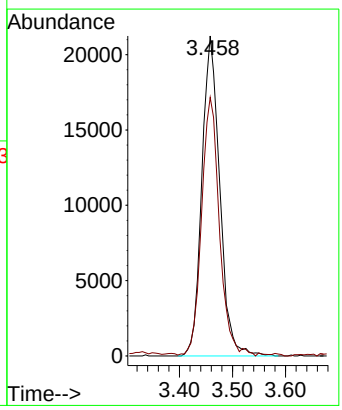


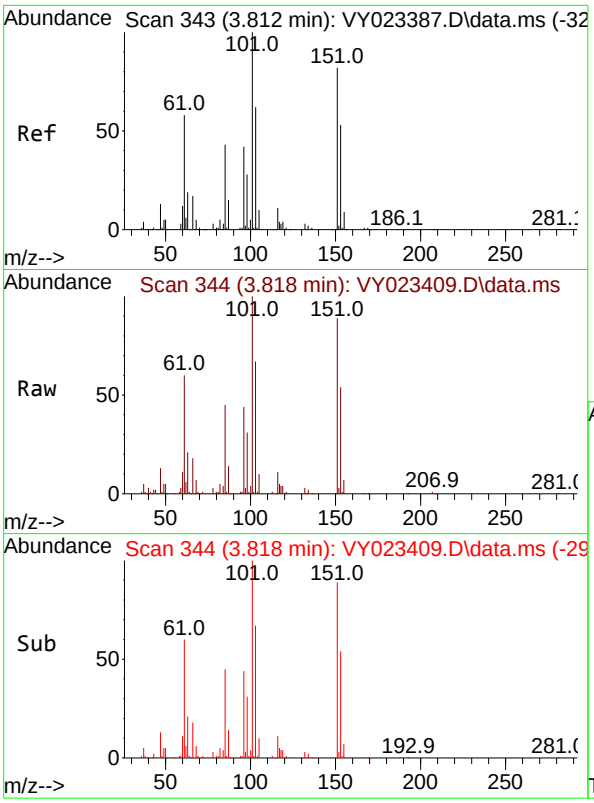




#8
Diethyl Ether
Concen: 19.062 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 74 Resp: 49795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 80.8 | 39.9 | 119.7 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.869 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:101 Resp: 10826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.0 | 34.6 | 51.8 |
| 151 | 82.6 | 67.0 | 100.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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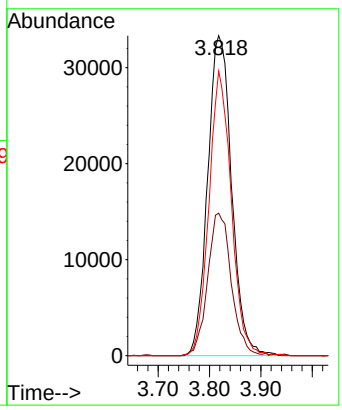
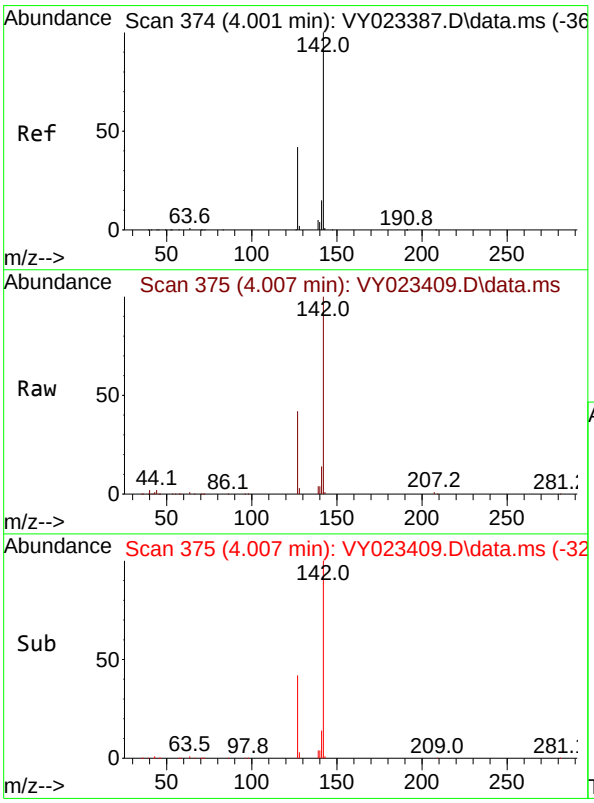
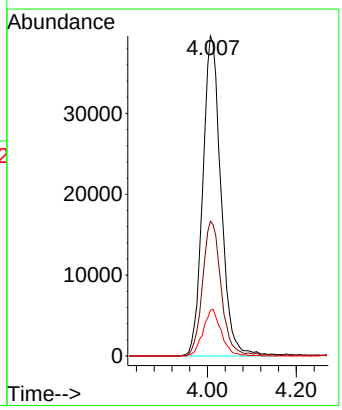


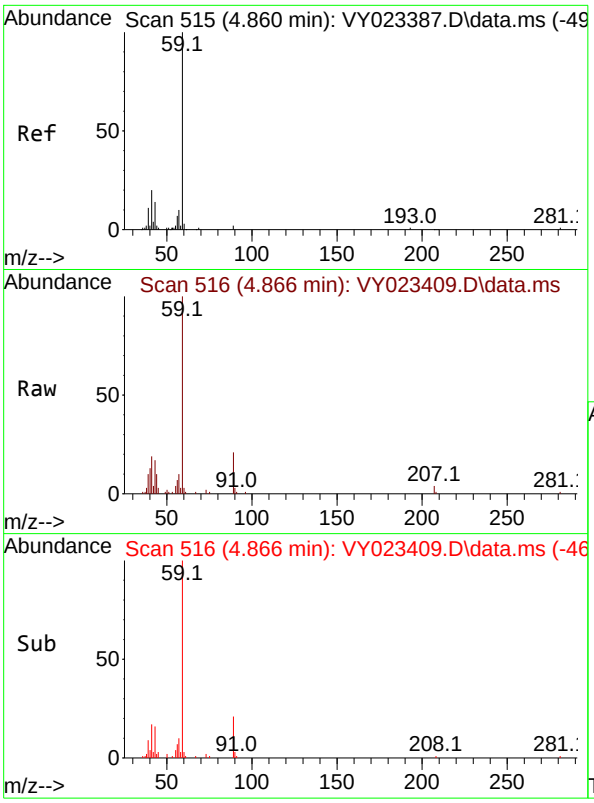




#10
Methyl Iodide
Concen: 19.597 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:142 Resp: 113175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 42.9 | 34.8 | 52.2 |
| 141 | 14.4 | 11.6 | 17.4 |

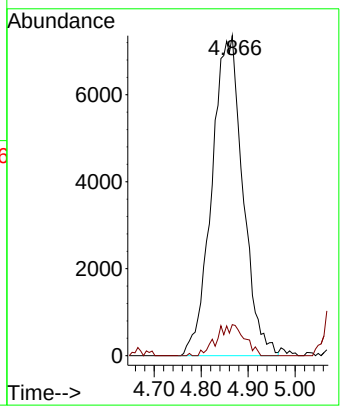





#11
Tert butyl alcohol
Concen: 95.990 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 59 Resp: 3366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.7 | 8.3 | 12.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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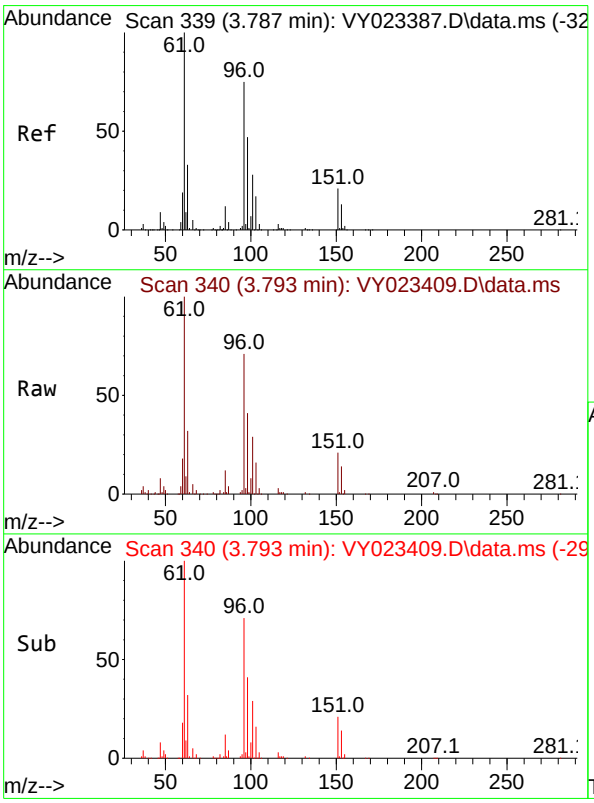
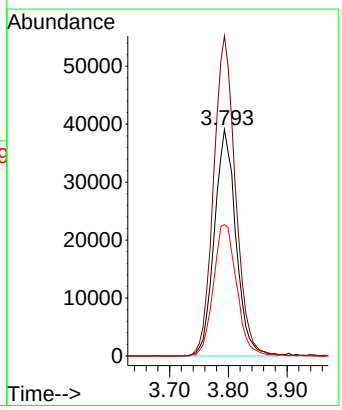
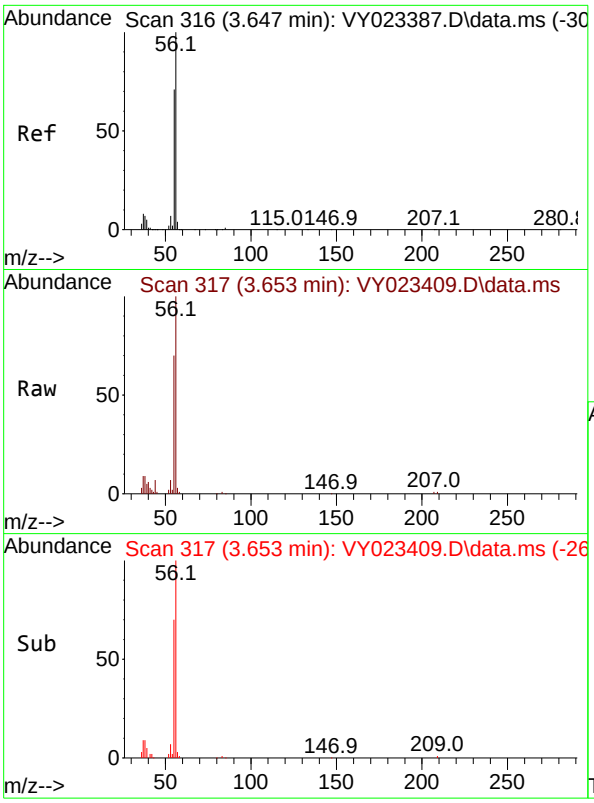



#12
1,1-Dichloroethene
Concen: 19.832 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 96 Resp: 99731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.3 | 106.7 | 160.1 |
| 98 | 58.0 | 50.2 | 75.4 |

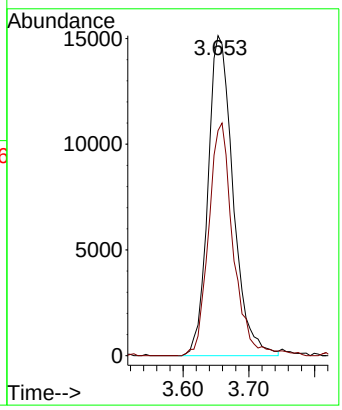





#13
Acrolein
Concen: 81.277 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 56 Resp: 4027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.3 | 56.1 | 84.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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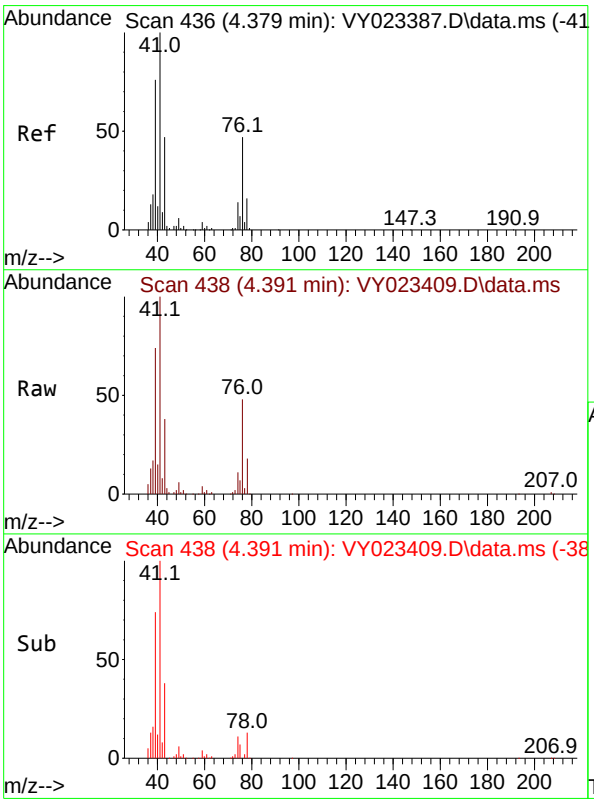
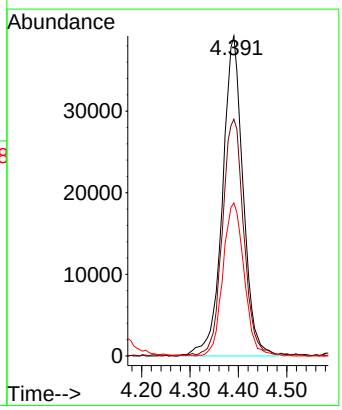
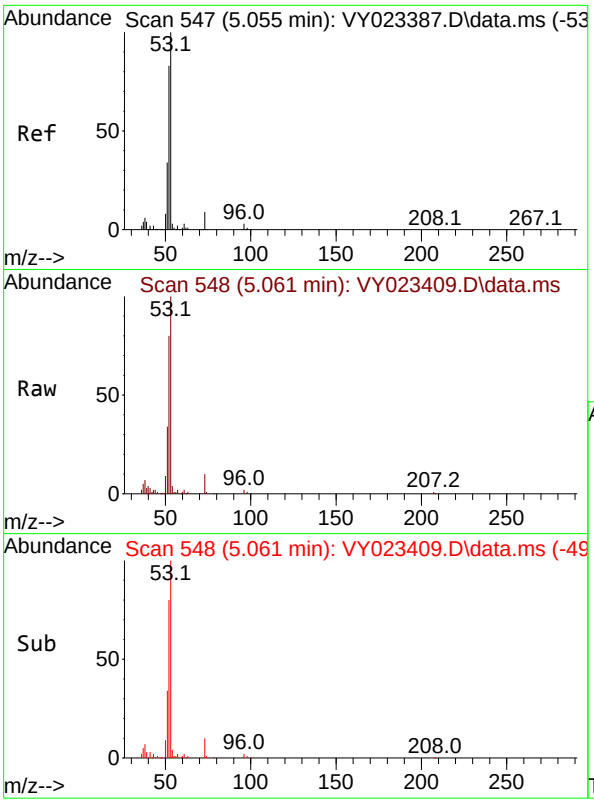



#14
Allyl chloride
Concen: 18.994 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.012 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 41 Resp: 116410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 76.8 | 59.9 | 89.9 |
| 76 | 49.1 | 38.0 | 57.0 |

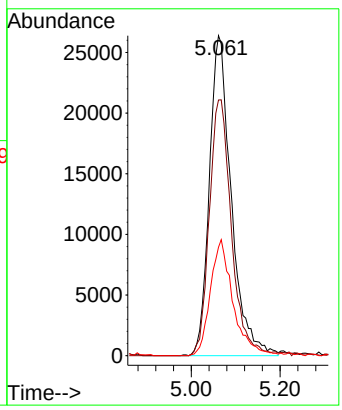





#15
Acrylonitrile
Concen: 90.162 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 53 Resp: 9013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.1 | 64.6 | 97.0 |
| 51 | 37.7 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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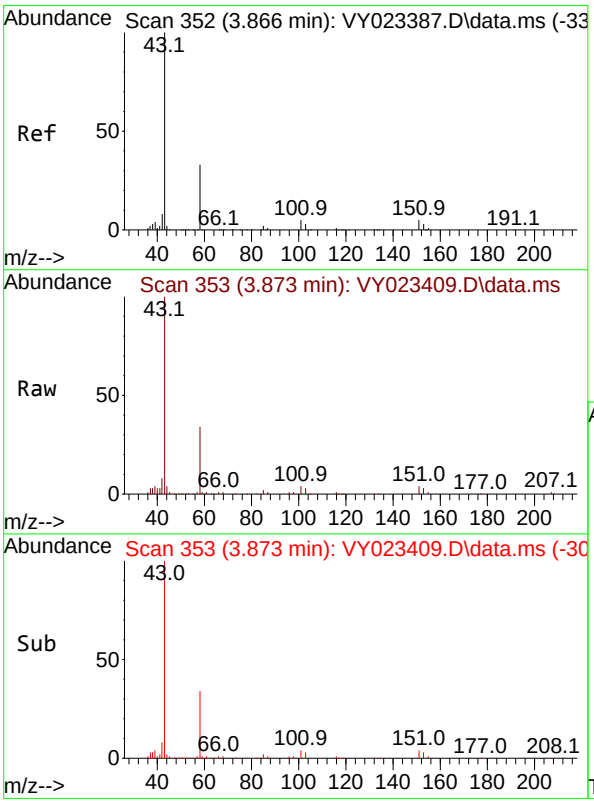
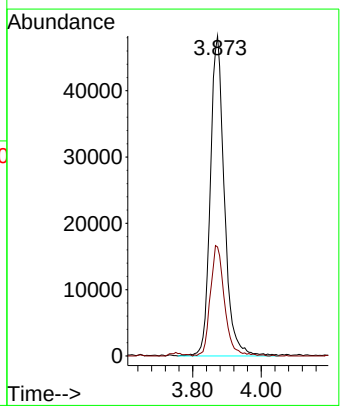
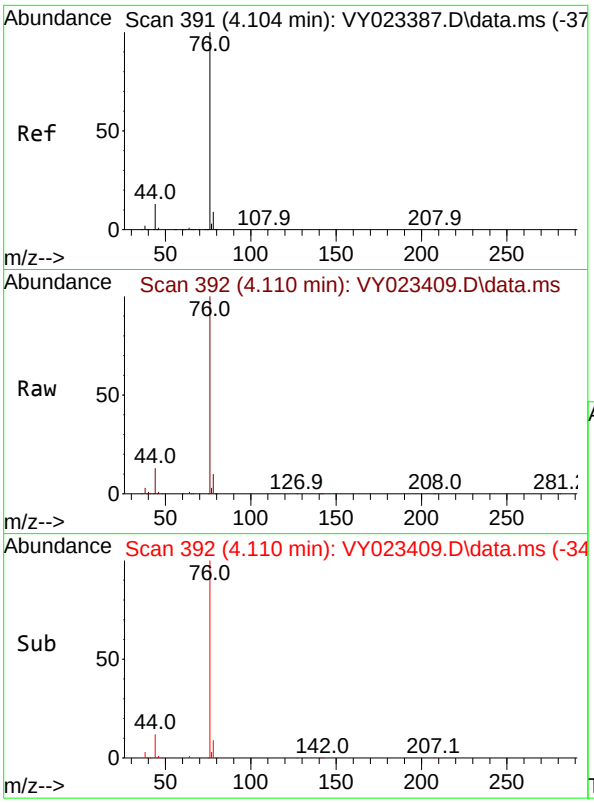



#16
Acetone
Concen: 122.625 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 43 Resp: 137624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.1 | 27.7 | 41.5 |






#17
Carbon Disulfide
Concen: 20.463 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

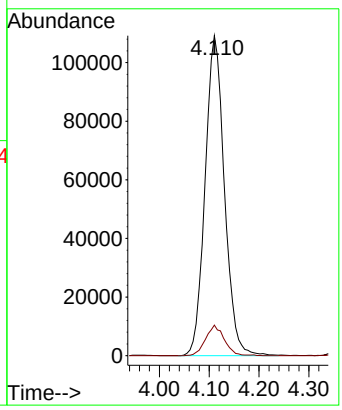
Tgt Ion: 76 Resp: 29453

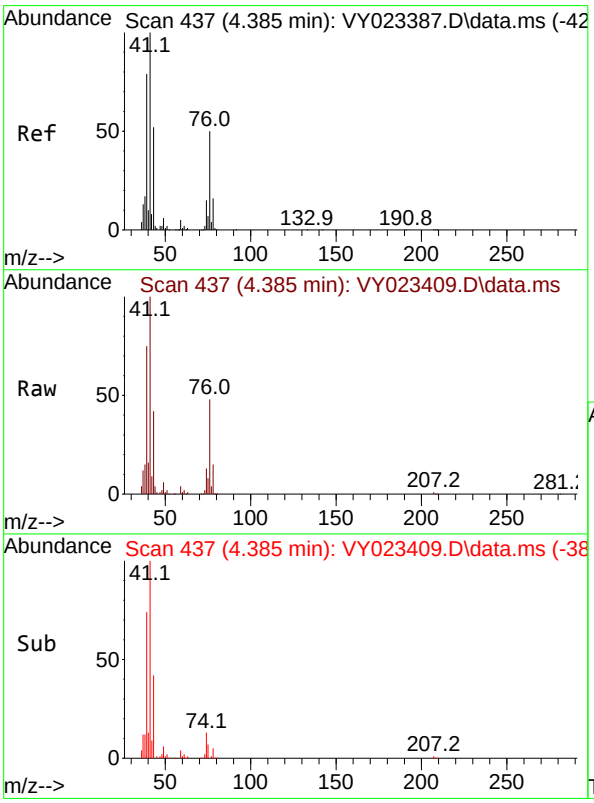
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.5 | 7.3 | 10.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

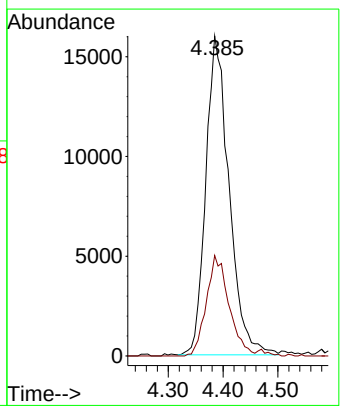


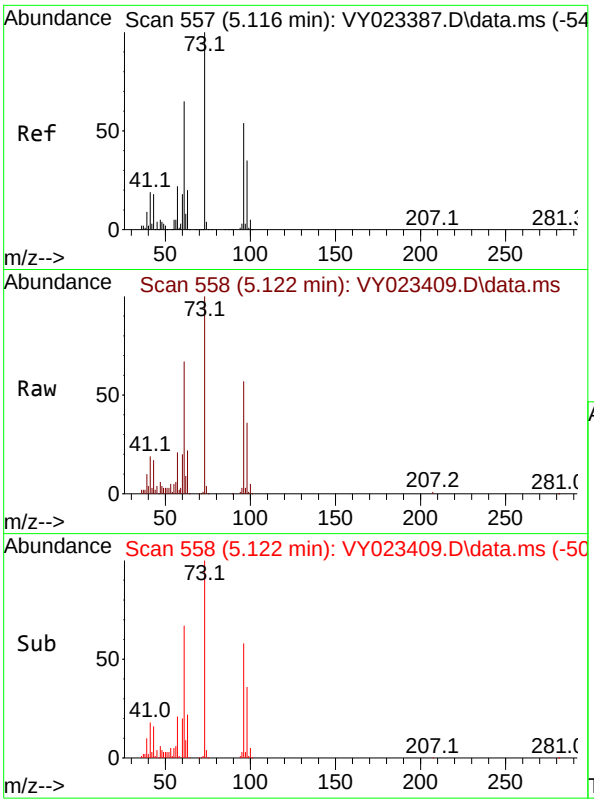




#18
Methyl Acetate
Concen: 15.968 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 43 Resp: 47012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 30.6 | 24.2 | 36.4 |

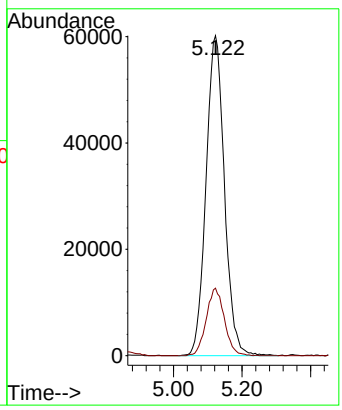





#19
Methyl tert-butyl Ether
Concen: 18.616 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 73 Resp: 22499

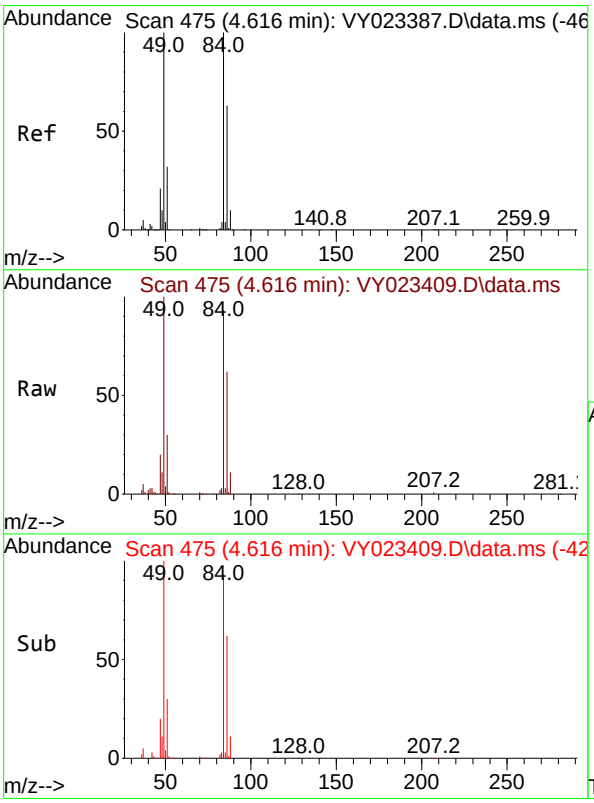
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.1 | 17.4 | 26.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

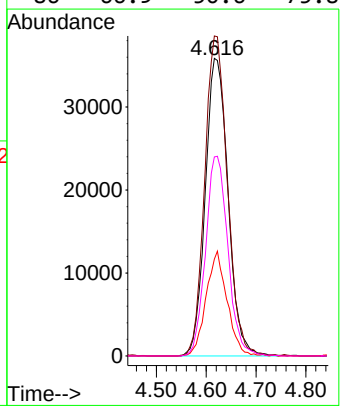
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

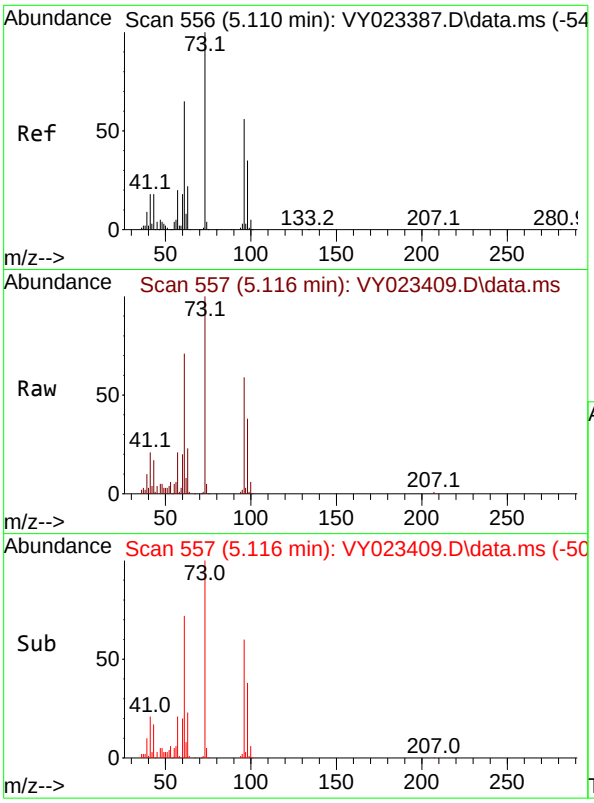



#20
Methylene Chloride
Concen: 18.779 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 84 Resp: 113968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 107.5 | 80.2 | 120.4 |
| 51 | 32.6 | 25.9 | 38.9 |
| 86 | 66.9 | 50.6 | 75.8 |






#21
trans-1,2-Dichloroethene
Concen: 20.304 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 96 Resp: 11241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 120.3 | 92.7 | 139.1 |
| 98 | 63.6 | 49.7 | 74.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 10/10/2025
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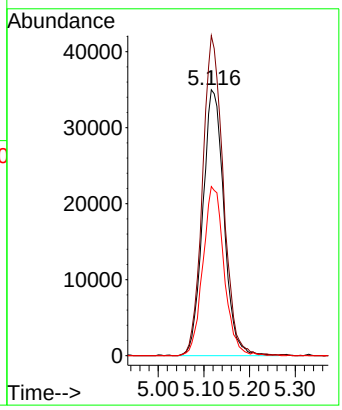
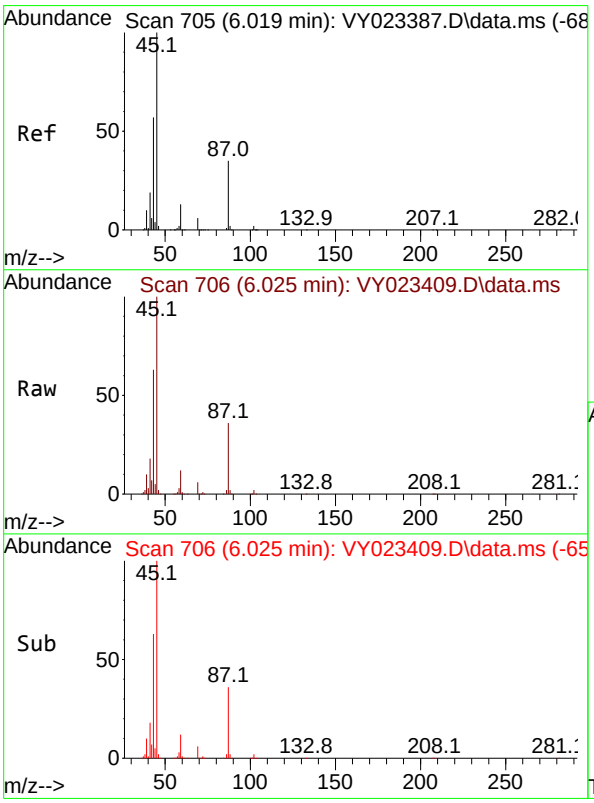
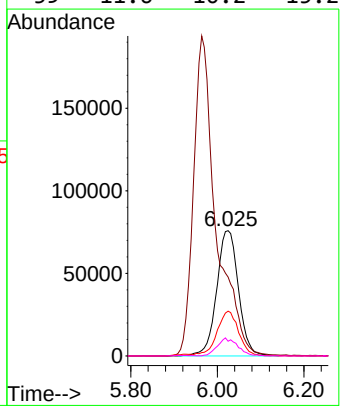


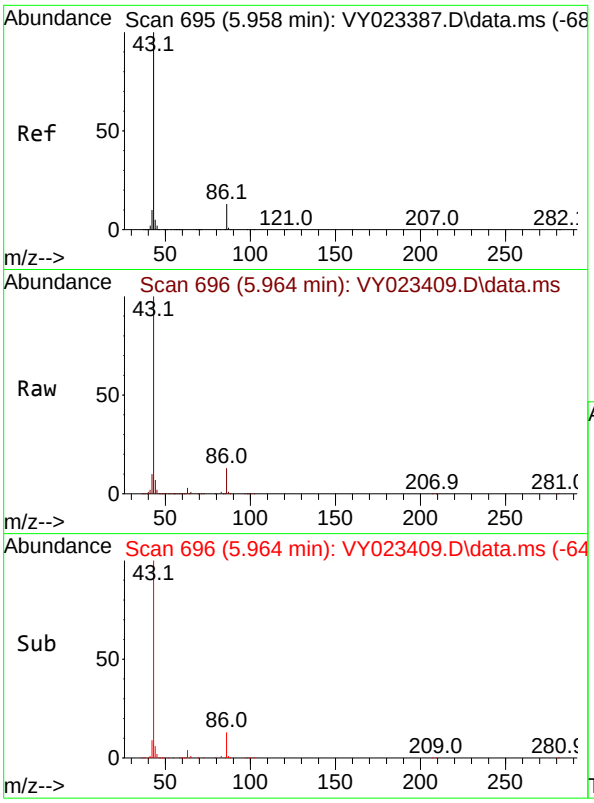




#22
Diisopropyl ether
Concen: 19.579 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 45 Resp: 265422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 62.1 | 45.6 | 68.4 |
| 87 | 35.6 | 28.1 | 42.1 |
| 59 | 11.6 | 10.2 | 15.2 |






#23
Vinyl Acetate
Concen: 95.380 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 43 Resp: 69989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 13.2 | 10.6 | 15.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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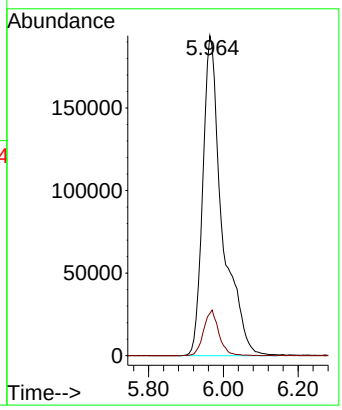
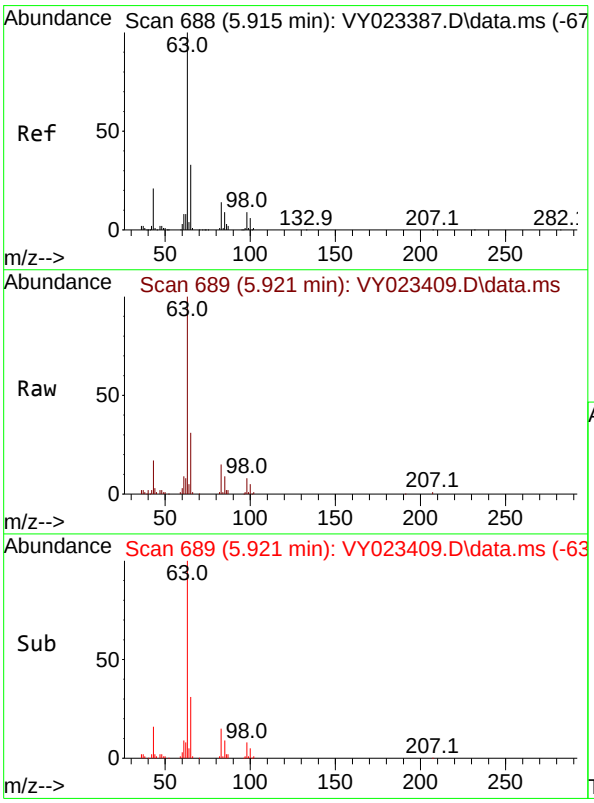
Supervised By :Semsettin Yesilyurt 10/10/2025

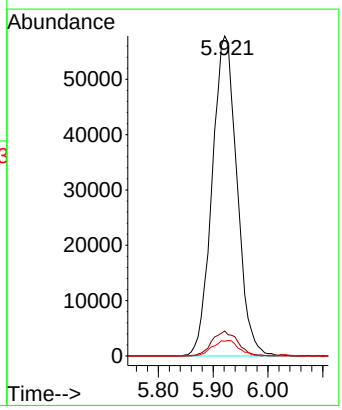


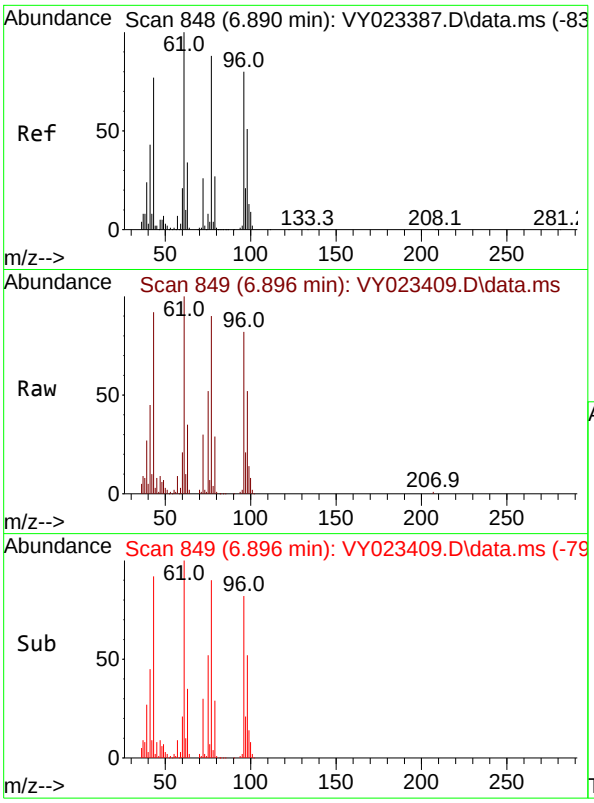




#24
1,1-Dichloroethane
Concen: 20.284 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 63 Resp: 182155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.8 | 4.3 | 13.1 |
| 100 | 4.6 | 2.8 | 8.4 |






#25
2-Butanone
Concen: 106.390 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 43 Resp: 14577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 32.3 | 27.4 | 41.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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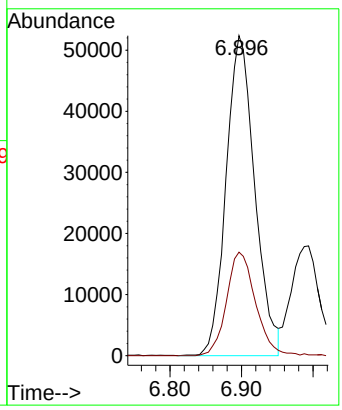
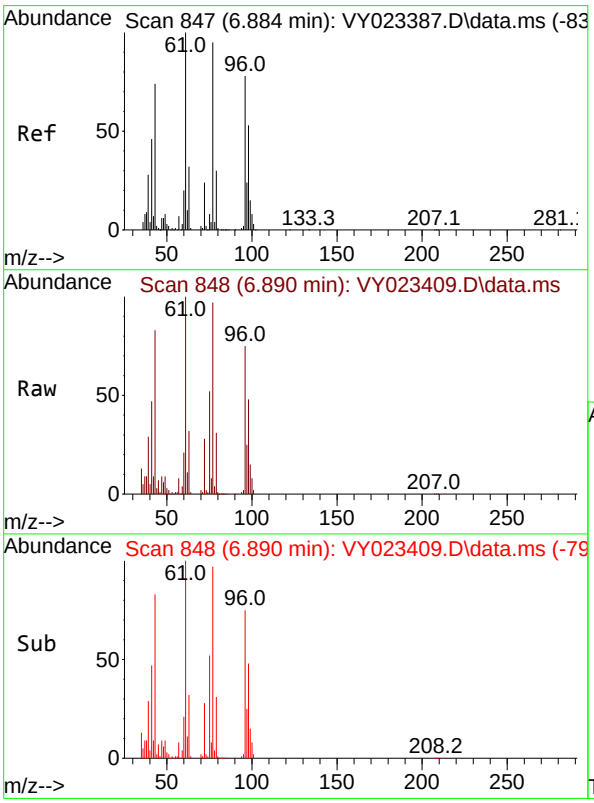
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

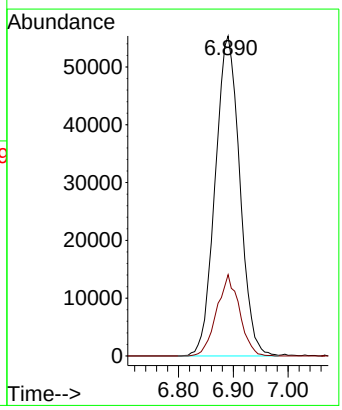


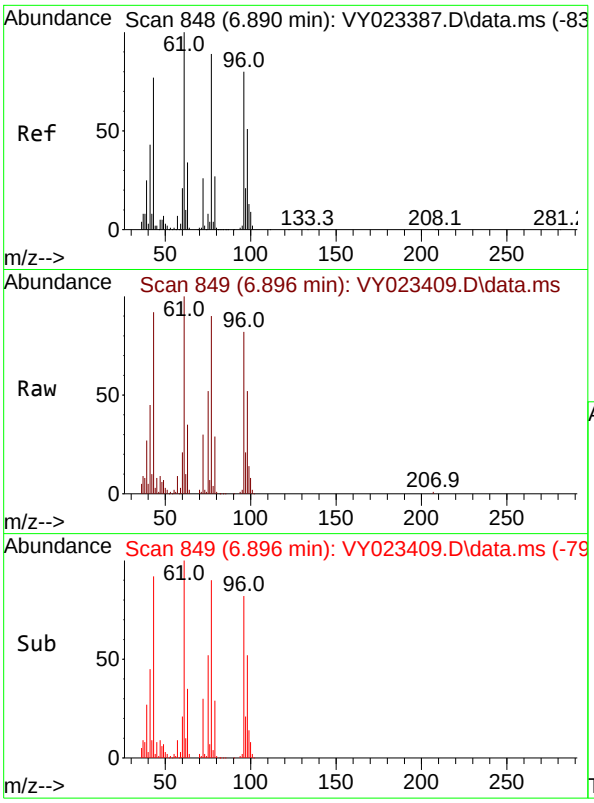




#26
2,2-Dichloropropane
Concen: 20.933 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 77 Resp: 172493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.5 | 12.1 | 36.3 |






#27
cis-1,2-Dichloroethene
Concen: 19.791 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

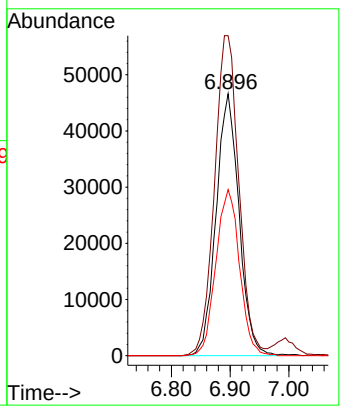
Tgt Ion: 96 Resp: 12657

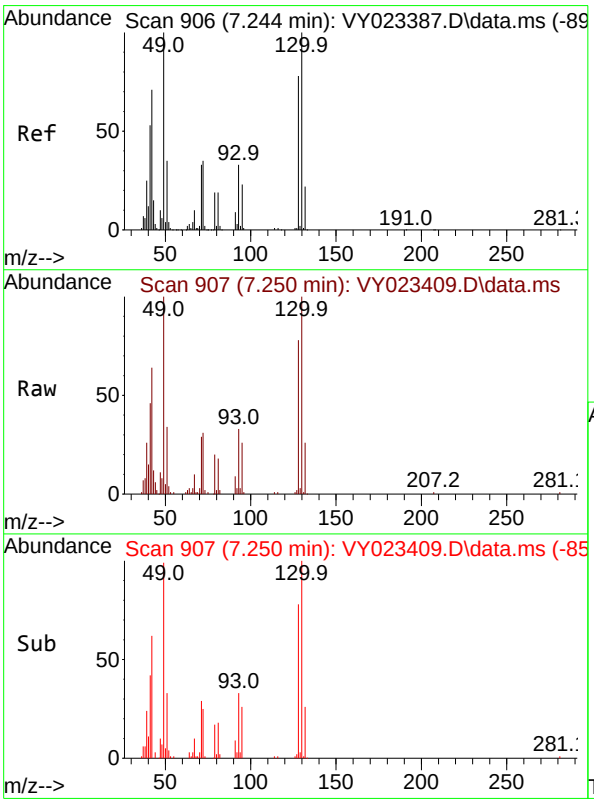
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 129.8 | 0.0 | 258.2 |
| 98 | 65.3 | 0.0 | 132.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

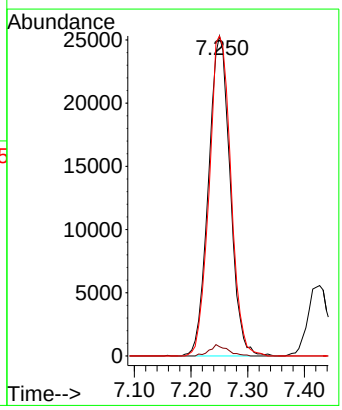


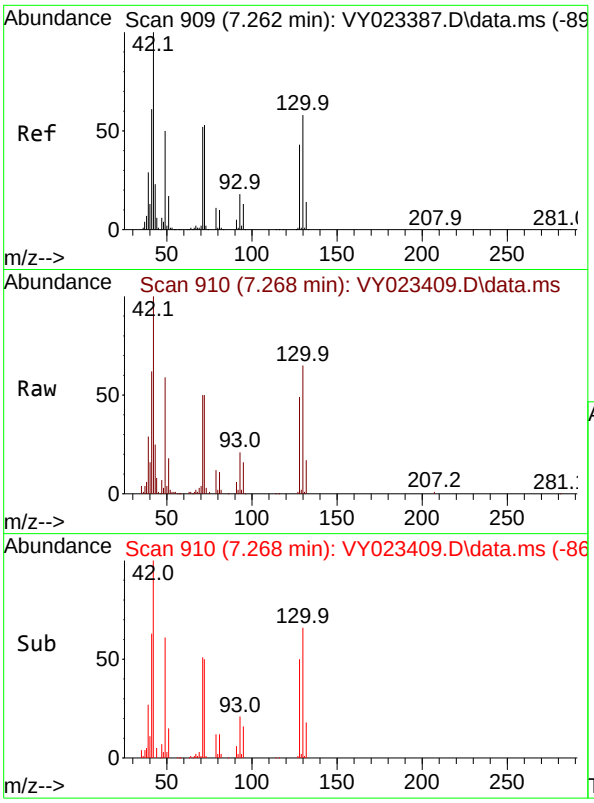




#28
Bromochloromethane
Concen: 19.993 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 49 Resp: 67024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.9 | 0.0 | 5.6 |
| 130 | 100.2 | 81.9 | 122.9 |






#29
Tetrahydrofuran
Concen: 87.306 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 42 Resp: 6783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 50.7 | 43.0 | 64.6 |
| 71 | 48.9 | 40.1 | 60.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 10/10/2025
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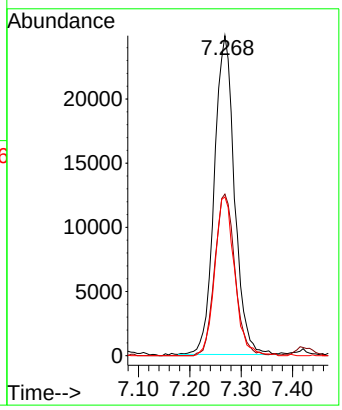
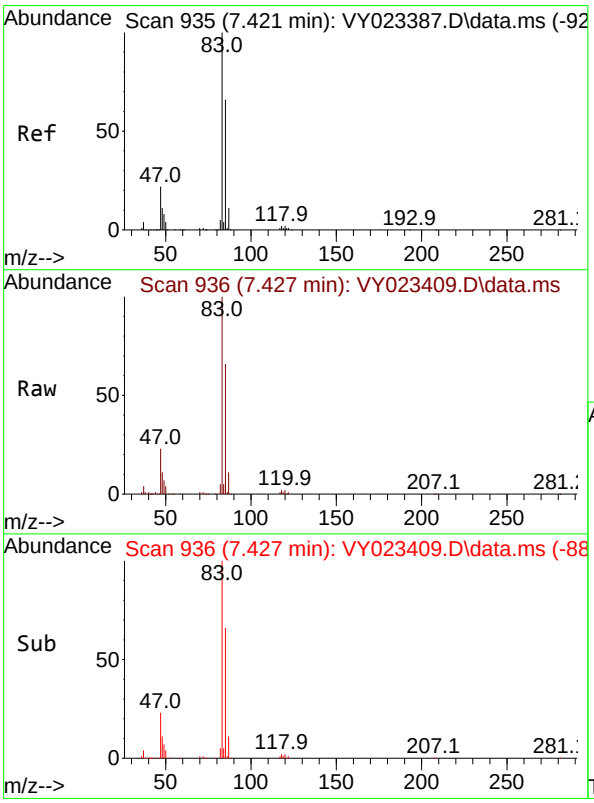
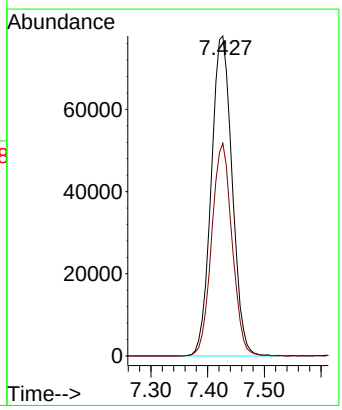


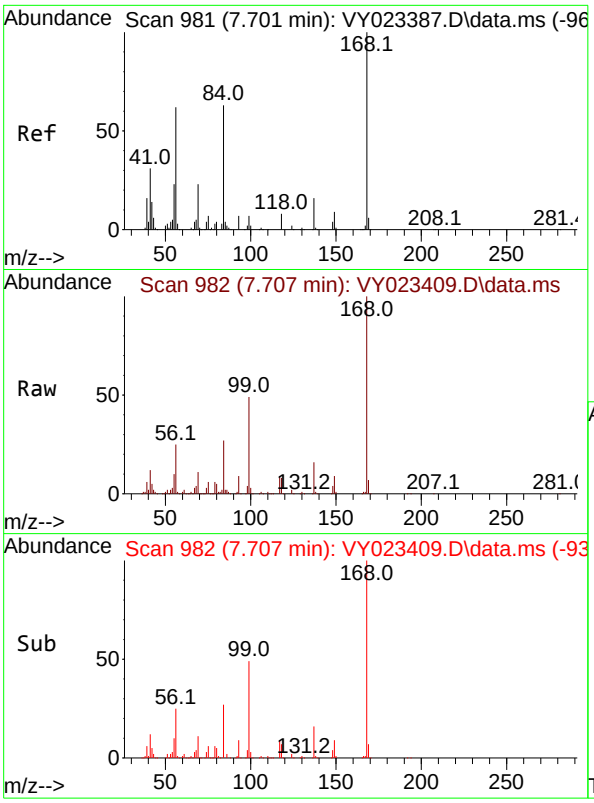




#30
Chloroform
Concen: 20.207 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 83 Resp: 199370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.5 | 52.5 | 78.7 |






#31
Cyclohexane
Concen: 19.656 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 56 Resp: 15414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 42.8 | 30.0 | 45.0 |
| 84 | 107.5 | 81.2 | 121.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

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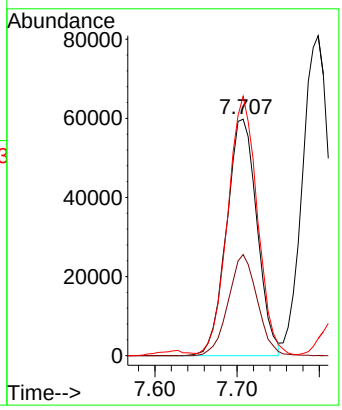
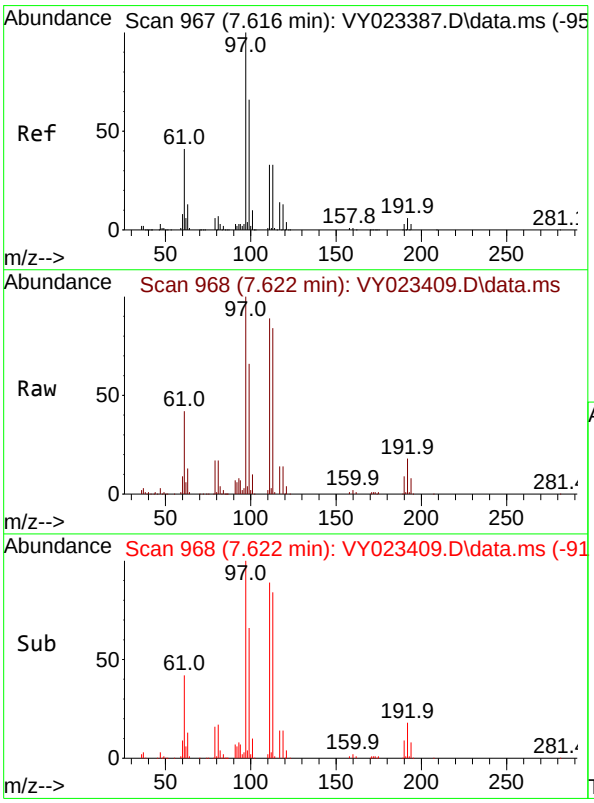
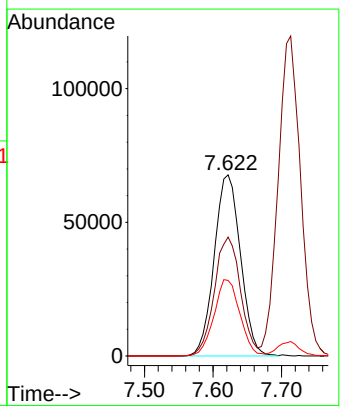


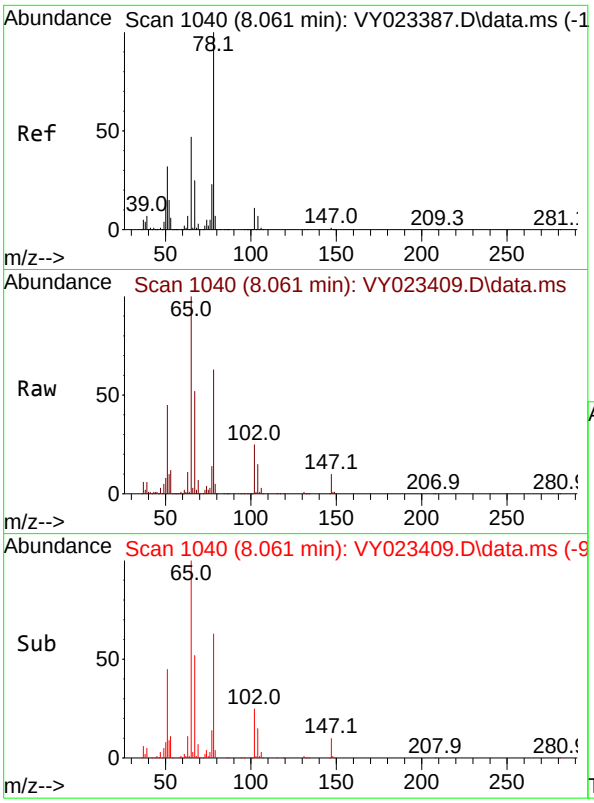




#32
1,1,1-Trichloroethane
Concen: 20.109 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 97 Resp: 180303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.3 | 51.4 | 77.2 |
| 61 | 41.5 | 31.9 | 47.9 |






#33
1,2-Dichloroethane-d4
Concen: 45.791 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 65 Resp: 21587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.0 | 0.0 | 105.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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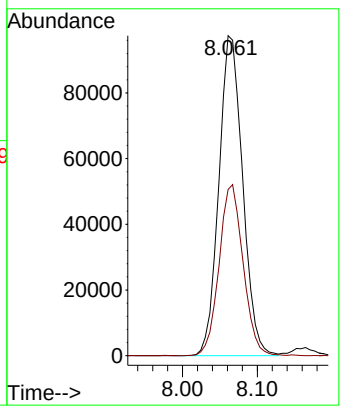
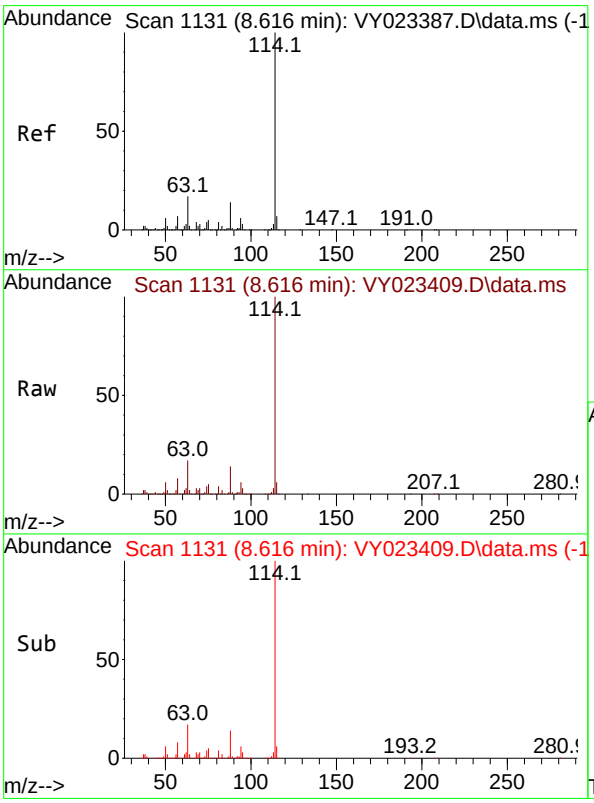
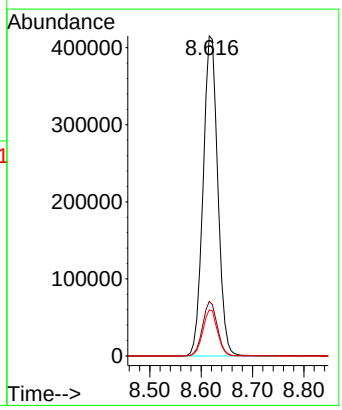


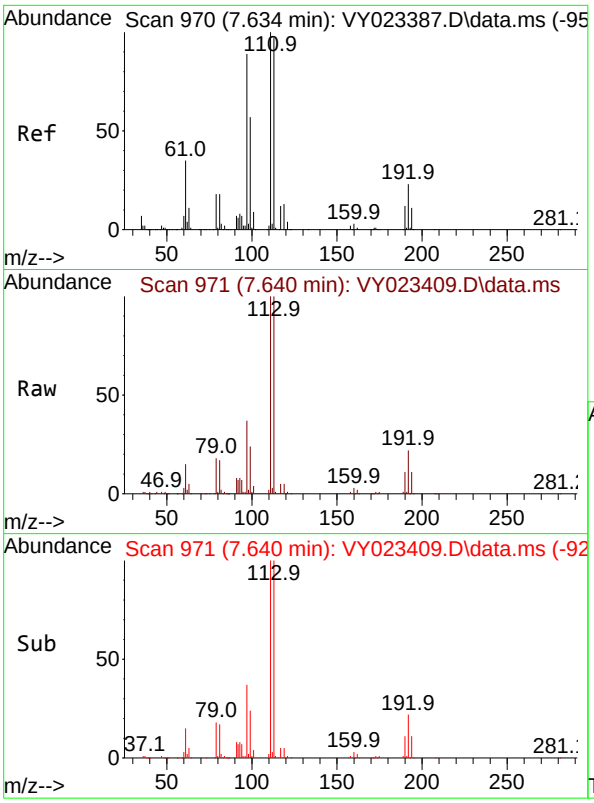




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:114 Resp: 821828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.1 | 0.0 | 34.2 |
| 88 | 14.4 | 0.0 | 28.4 |






#35
Dibromofluoromethane
Concen: 47.875 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

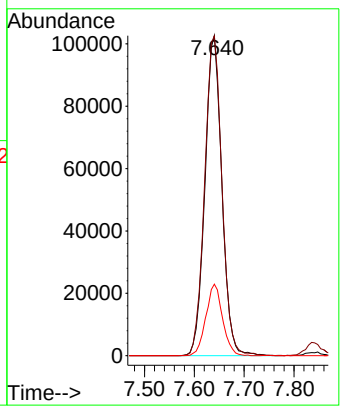
Tgt Ion:113 Resp: 24175

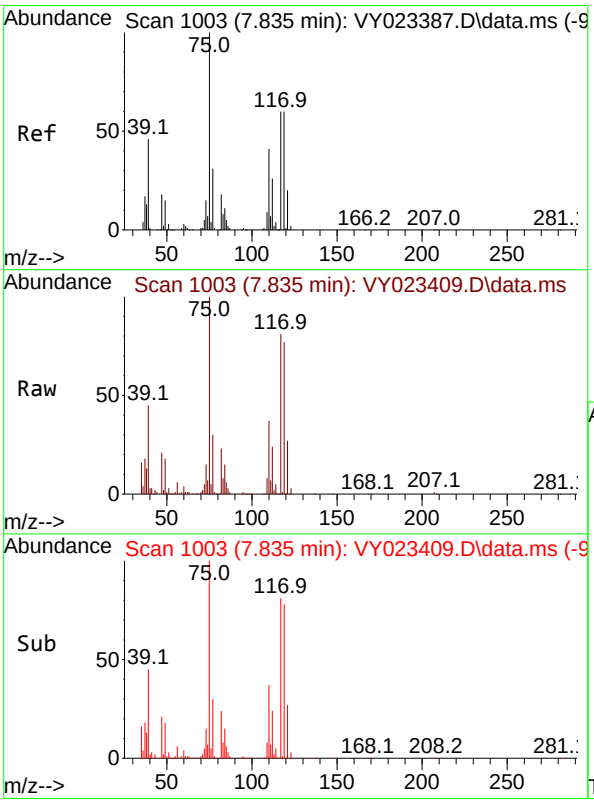
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.3 | 81.8 | 122.6 |
| 192 | 22.0 | 18.0 | 27.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

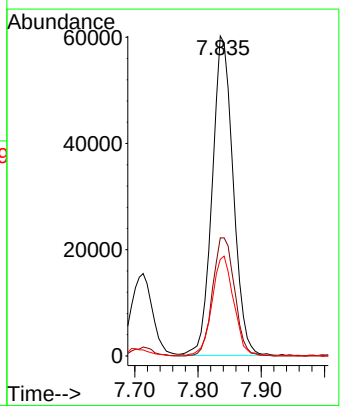


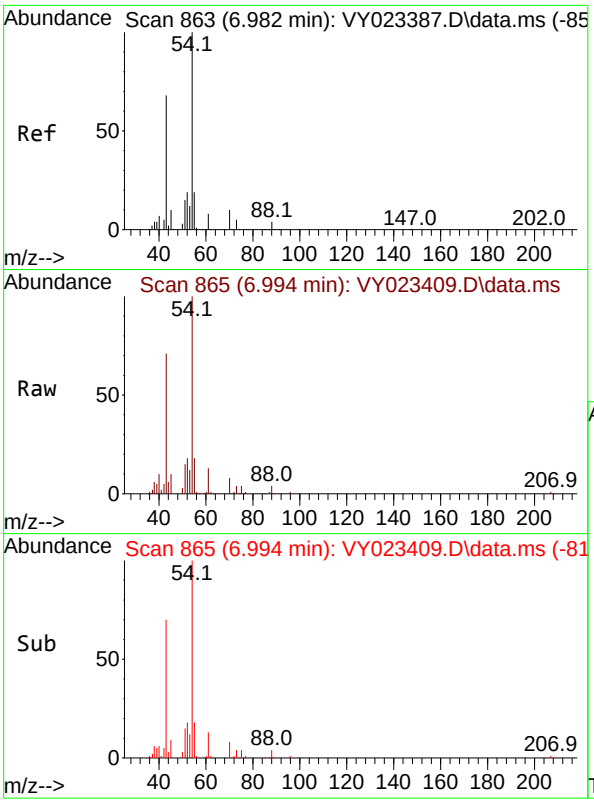




#36
1,1-Dichloropropene
Concen: 20.730 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 75 Resp: 138589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 38.7 | 19.9 | 59.7 |
| 77 | 32.4 | 25.0 | 37.6 |






#37
Ethyl Acetate
Concen: 19.403 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

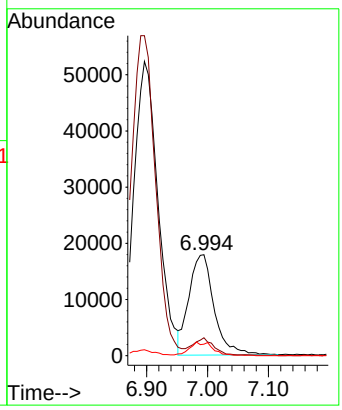
Tgt Ion: 43 Resp: 5139

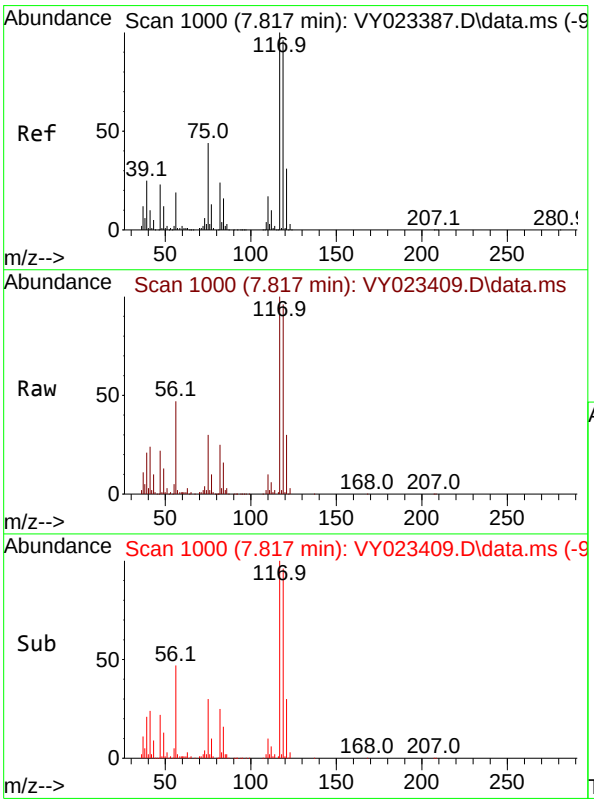
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.6 | 11.8 | 17.8 |
| 70 | 12.5 | 10.5 | 15.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

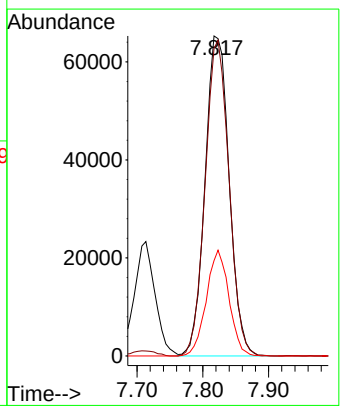


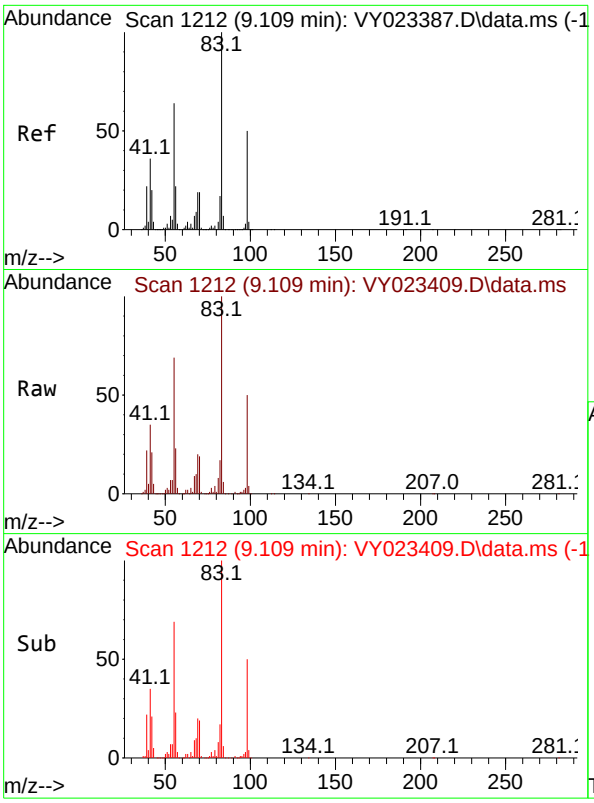




#38
Carbon Tetrachloride
Concen: 20.621 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:117 Resp: 167157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.1 | 76.8 | 115.2 |
| 121 | 29.8 | 24.5 | 36.7 |






#39
Methylcyclohexane
Concen: 20.060 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

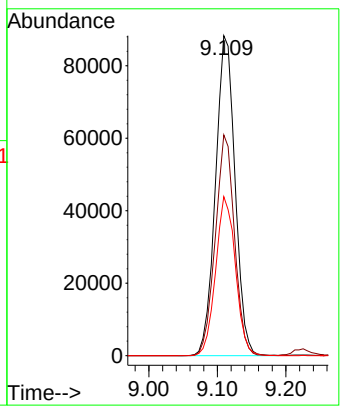
Tgt Ion: 83 Resp: 17461

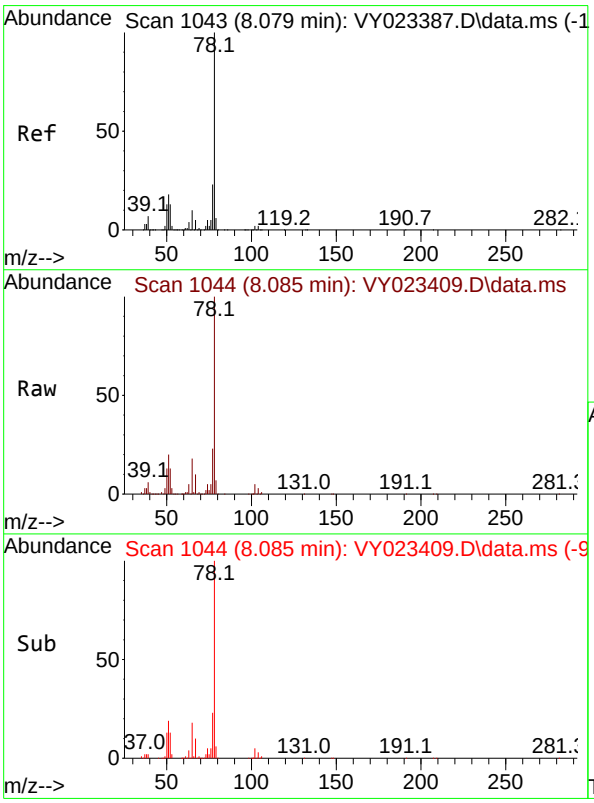
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 69.0 | 51.4 | 77.2 |
| 98 | 49.7 | 40.4 | 60.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

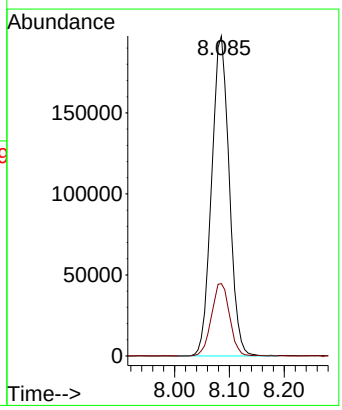


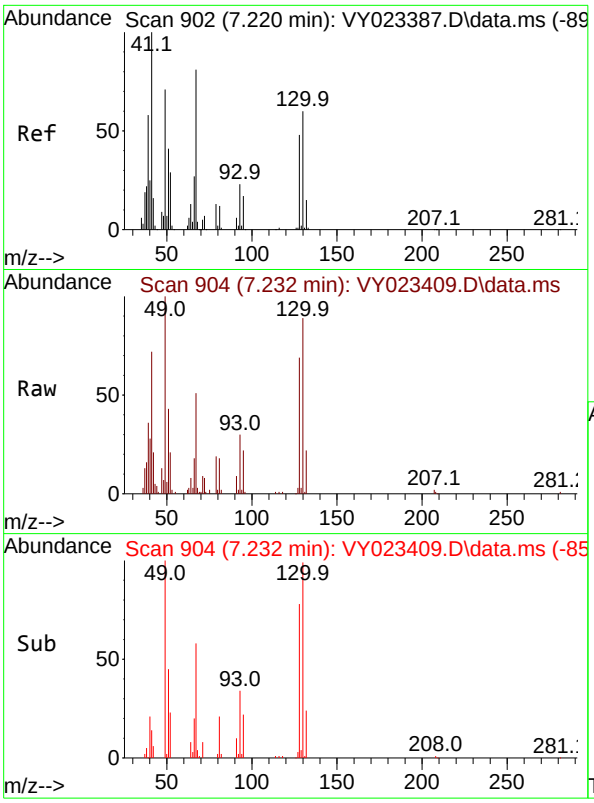




#40
Benzene
Concen: 20.779 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 78 Resp: 439932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.6 | 18.3 | 27.5 |

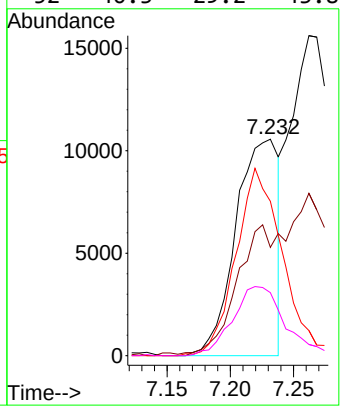





#41
Methacrylonitrile
Concen: 17.398 ug/l
RT: 7.232 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 41 Resp: 2492

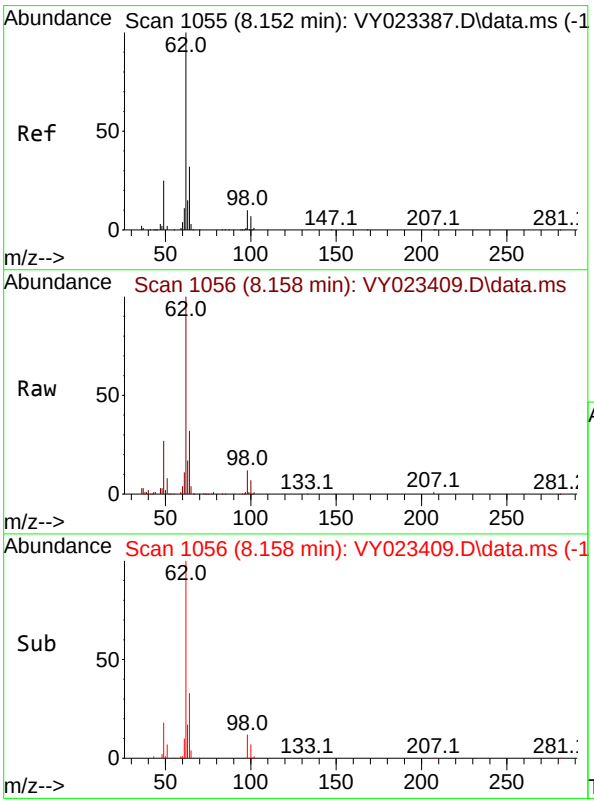
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 47.4 | 52.2 | 78.4 |
| 67 | 95.3 | 74.9 | 112.3 |
| 52 | 40.3 | 29.2 | 43.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

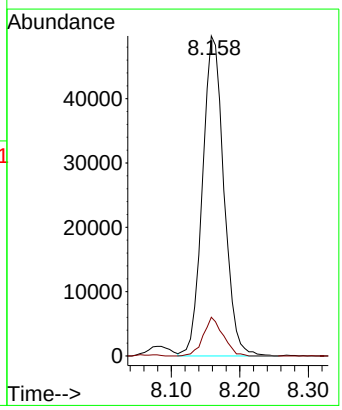
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

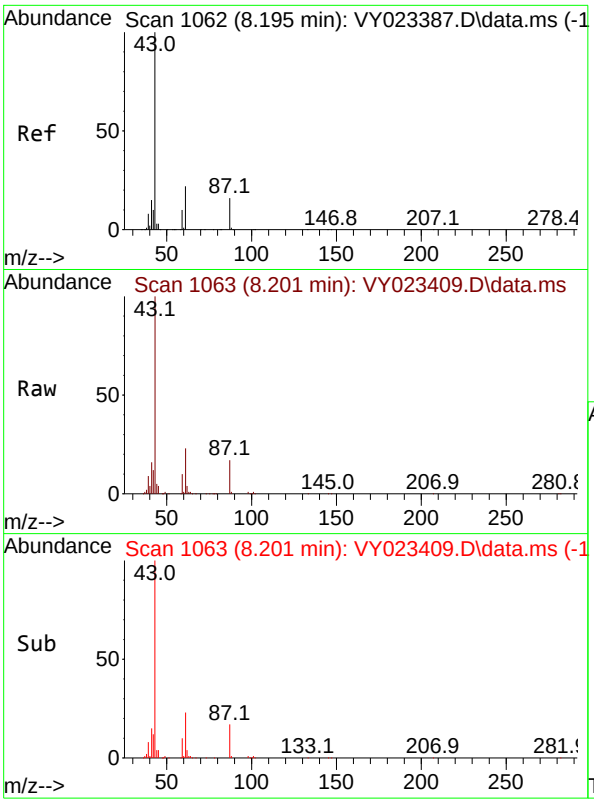



#42
1,2-Dichloroethane
Concen: 19.817 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 62 Resp: 108207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 11.2 | 0.0 | 21.6 |






#43
Isopropyl Acetate
Concen: 18.274 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

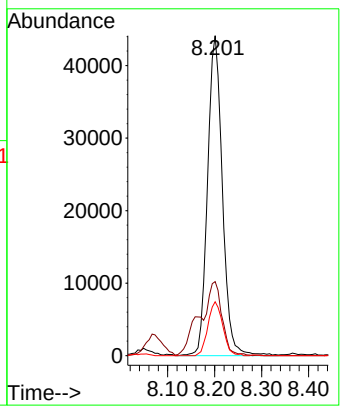
Tgt Ion: 43 Resp: 9650

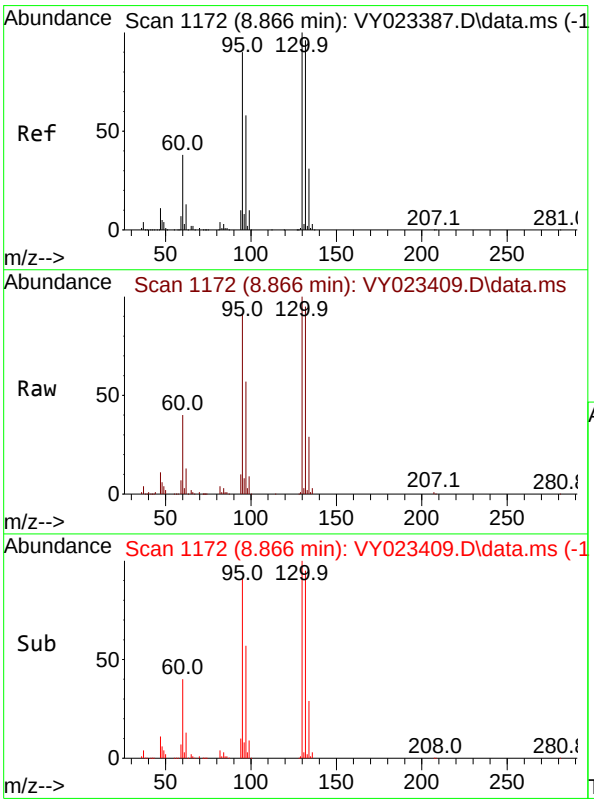
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.3 | 18.1 | 27.1 |
| 87 | 16.8 | 13.5 | 20.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

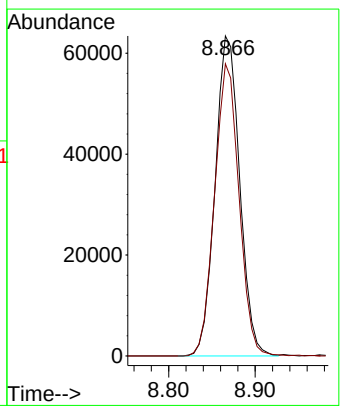


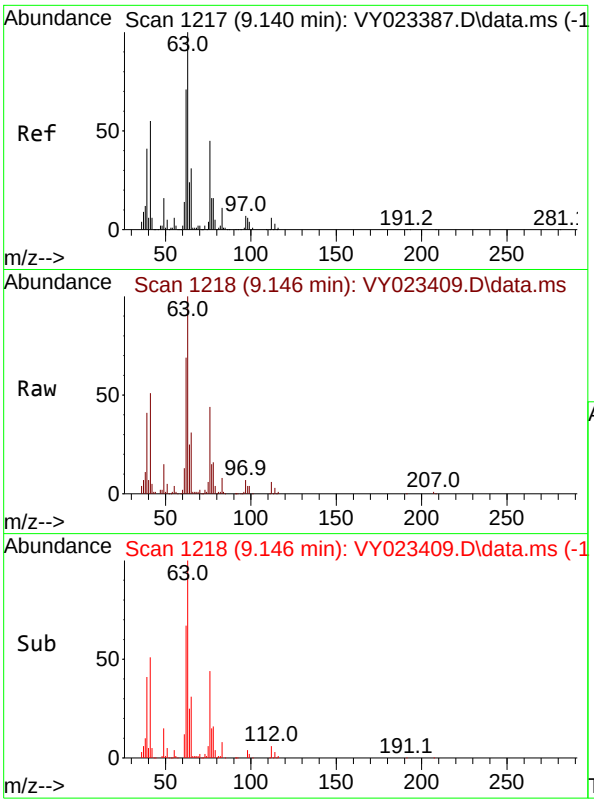




#44
Trichloroethene
Concen: 20.173 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:130 Resp: 125009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 91.3 | 0.0 | 180.6 |






#45
1,2-Dichloropropane
Concen: 20.582 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

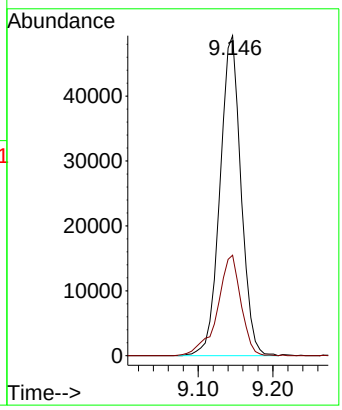
Tgt Ion: 63 Resp: 9624

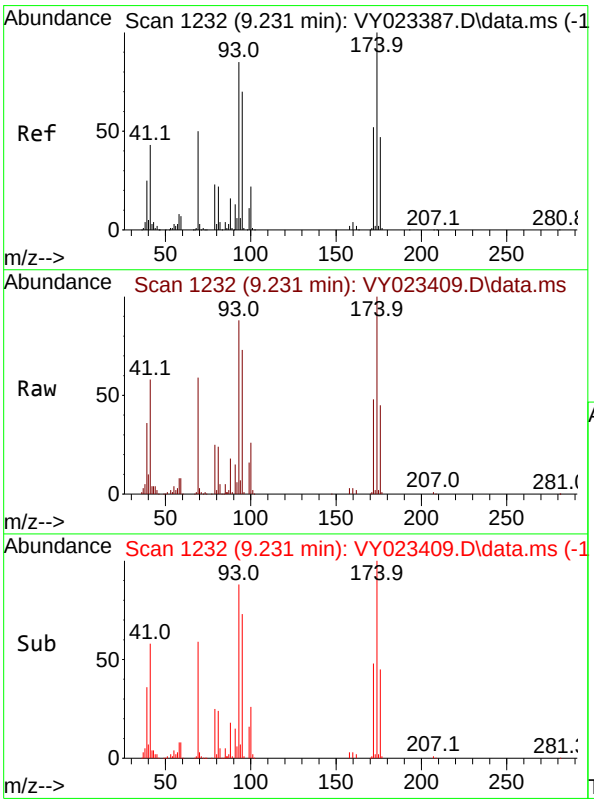
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.4 | 24.9 | 37.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

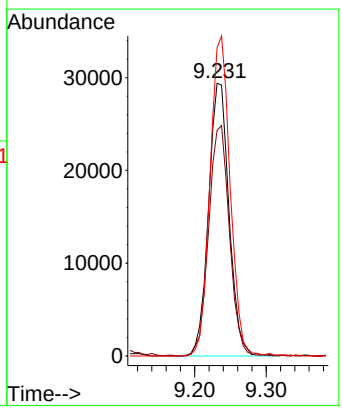


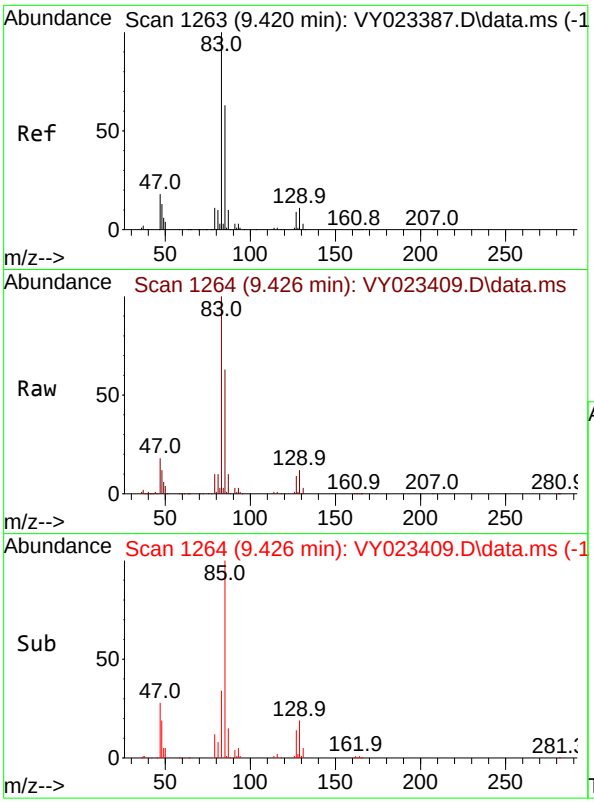




#46
Dibromomethane
Concen: 19.746 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 93 Resp: 58388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 85.4 | 65.4 | 98.0 |
| 174 | 115.1 | 92.9 | 139.3 |

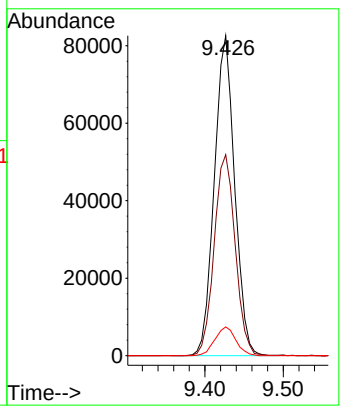





#47
Bromodichloromethane
Concen: 20.033 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 83 Resp: 14919

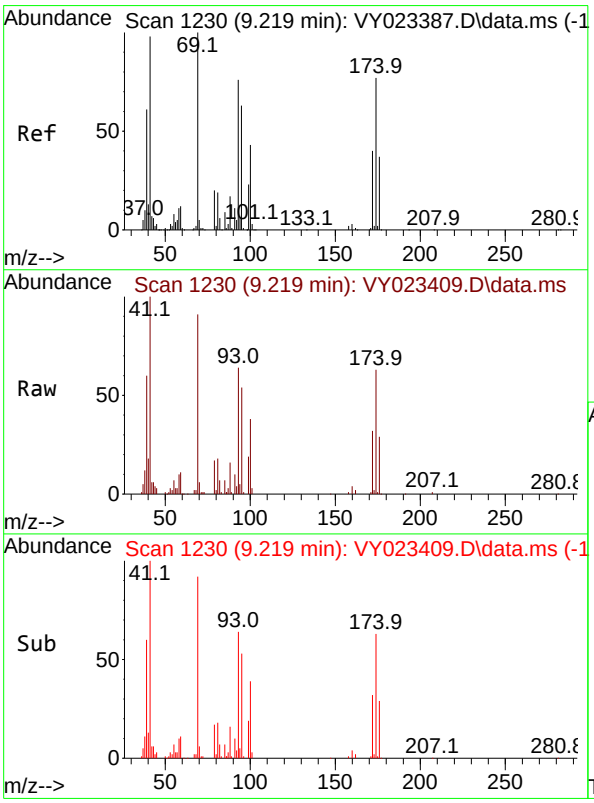
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.8 | 50.8 | 76.2 |
| 127 | 9.0 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

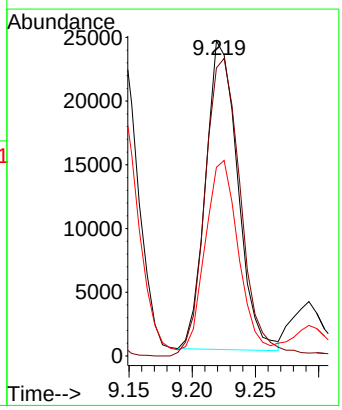
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

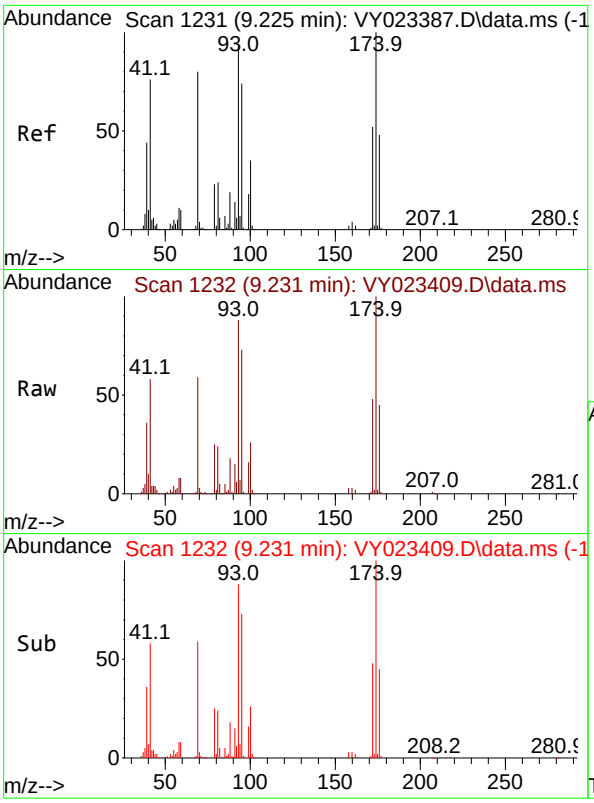



#48
Methyl methacrylate
Concen: 17.242 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 41 Resp: 42780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 107.7 | 81.0 | 121.4 |
| 39 | 62.4 | 48.2 | 72.4 |






#49
1,4-Dioxane
Concen: 357.190 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

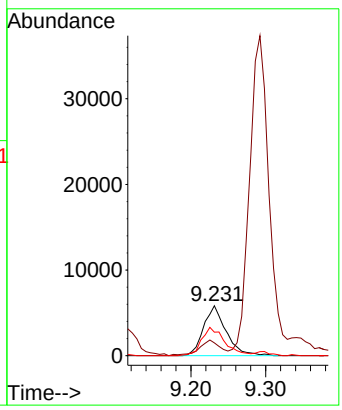
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

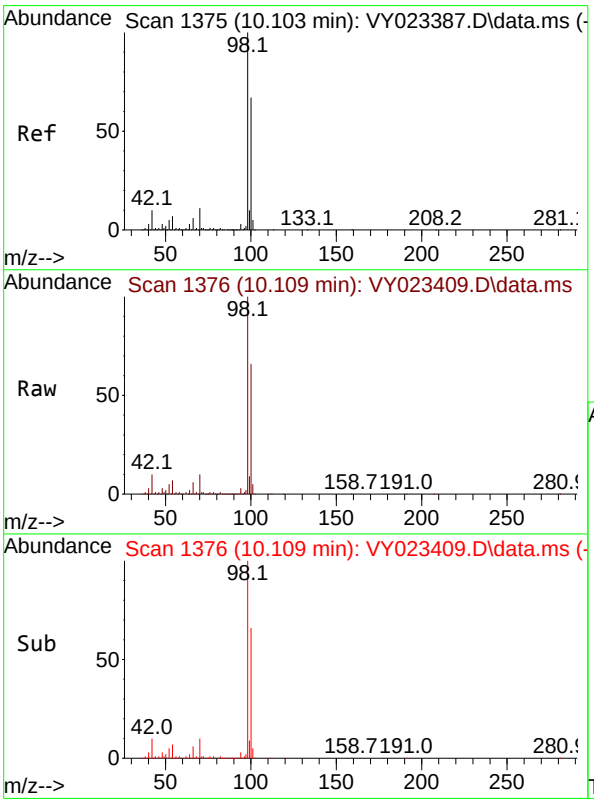
Tgt Ion: 88 Resp: 1224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 28.8 | 21.8 | 32.8 |
| 58 | 58.1 | 46.8 | 70.2 |

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

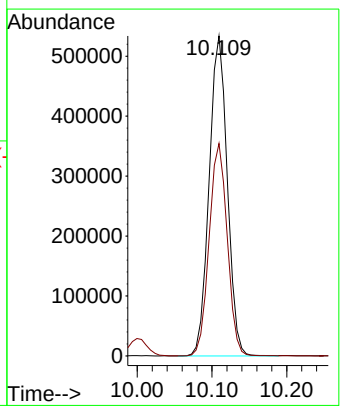


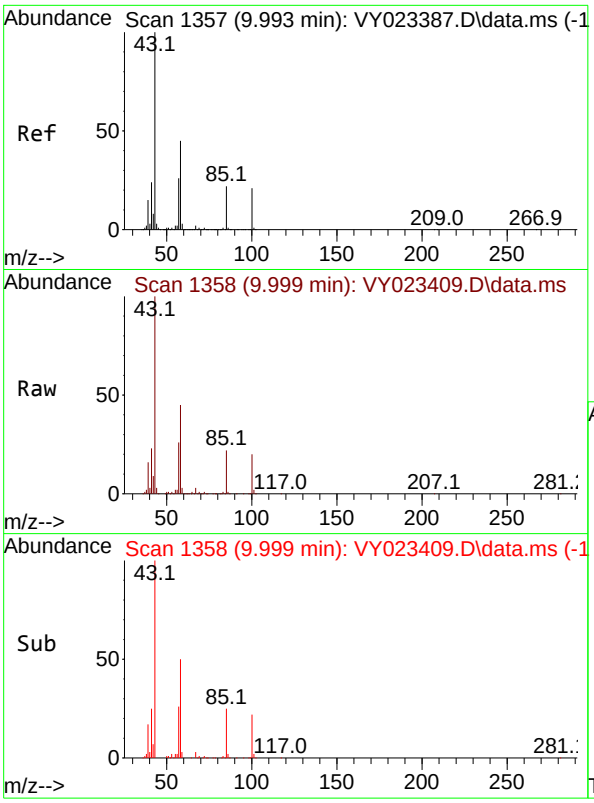




#50
Toluene-d8
Concen: 47.870 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 98 Resp: 900230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.0 | 53.0 | 79.4 |






#51
4-Methyl-2-Pentanone
Concen: 91.743 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

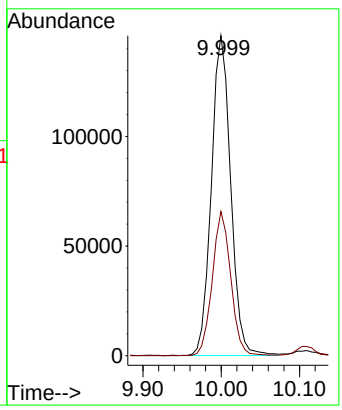
Tgt Ion: 43 Resp: 25033

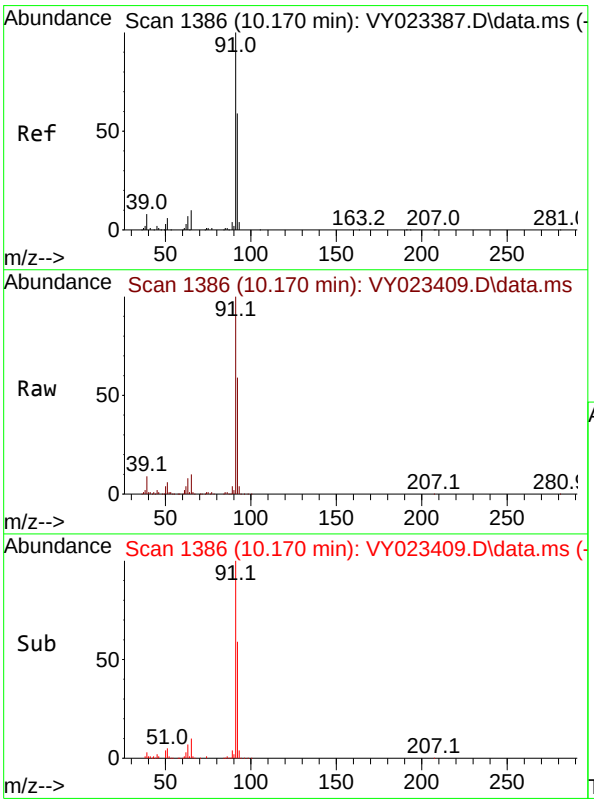
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.1 | 35.3 | 52.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

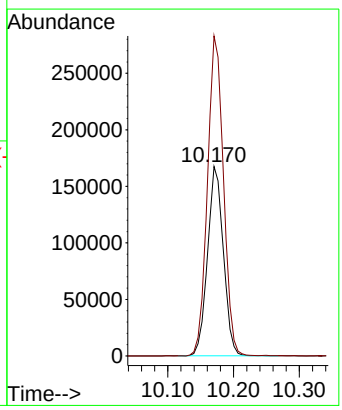


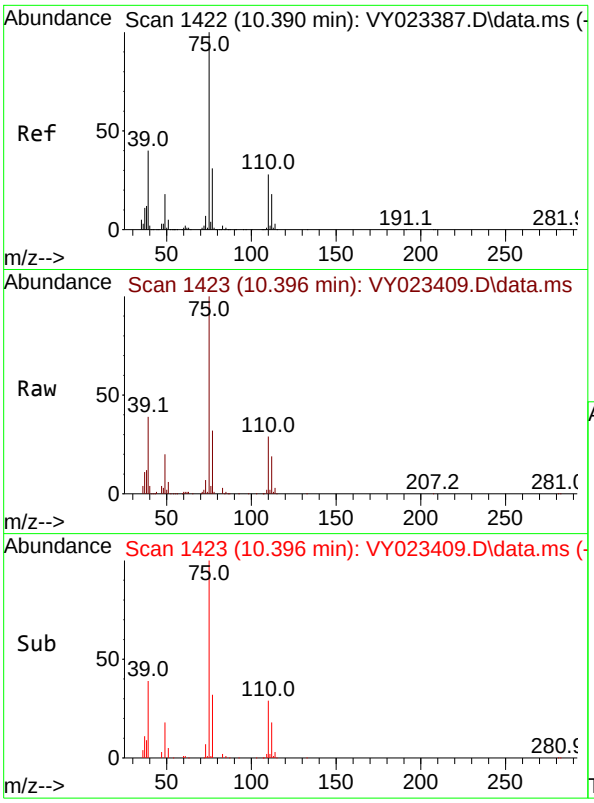




#52
Toluene
Concen: 20.376 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 92 Resp: 280105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.4 | 136.4 | 204.6 |






#53
t-1,3-Dichloropropene
Concen: 18.844 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

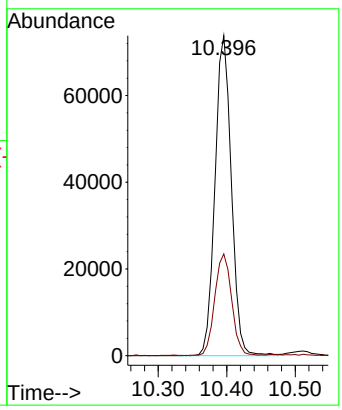
Tgt Ion: 75 Resp: 12202

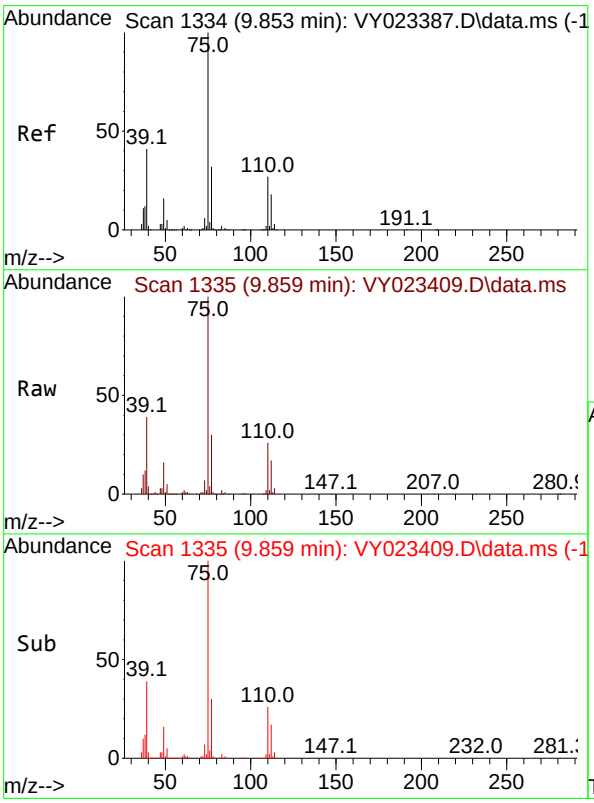
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.1 | 37.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

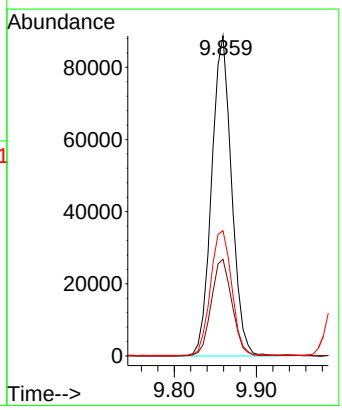


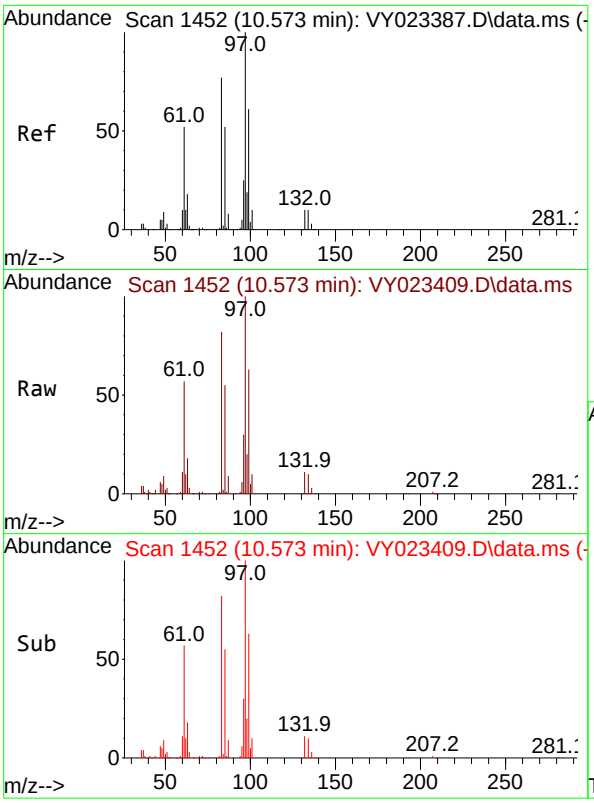




#54
cis-1,3-Dichloropropene
Concen: 19.607 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 75 Resp: 149849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.3 | 25.4 | 38.0 |
| 39 | 39.0 | 32.8 | 49.2 |

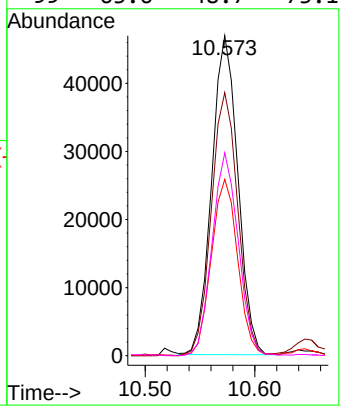





#55
1,1,2-Trichloroethane
Concen: 19.541 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 97 Resp: 7770

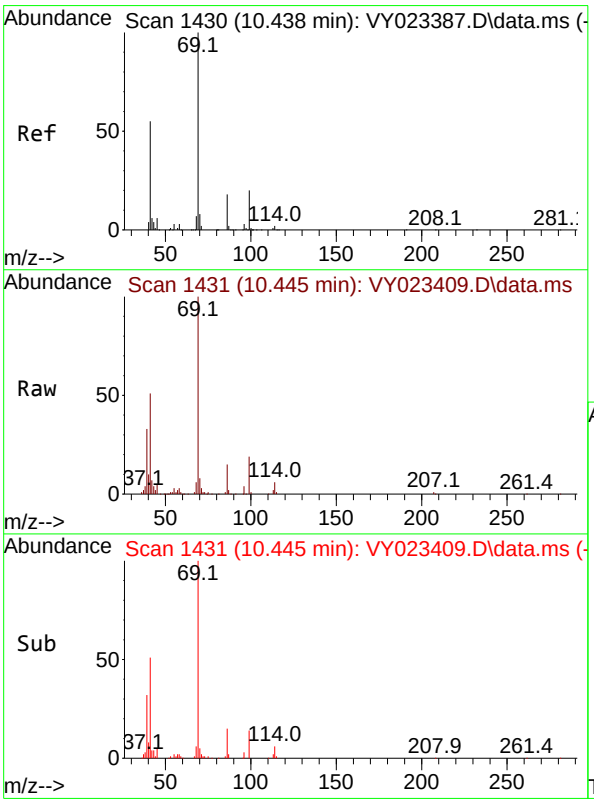
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.5 | 61.8 | 92.6 |
| 85 | 55.3 | 41.3 | 61.9 |
| 99 | 63.6 | 48.7 | 73.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

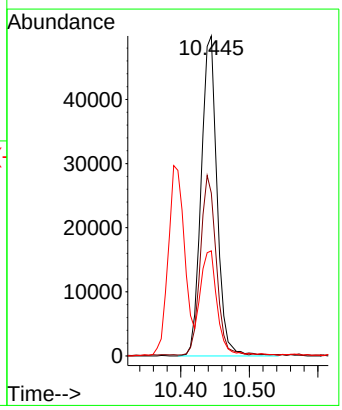
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

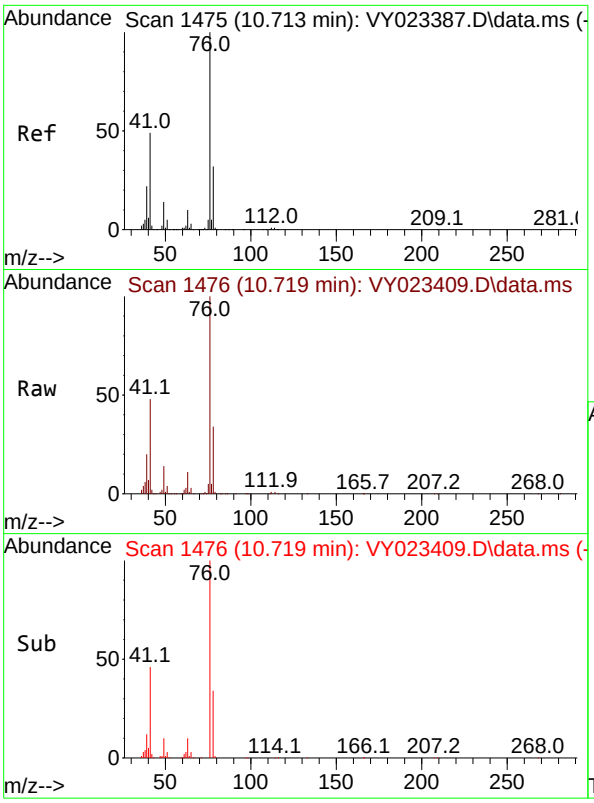



#56
Ethyl methacrylate
Concen: 17.609 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 69 Resp: 80772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 55.4 | 44.6 | 67.0 |
| 39 | 33.0 | 27.0 | 40.4 |






#57
1,3-Dichloropropane
Concen: 19.631 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 76 Resp: 12369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.7 | 25.9 | 38.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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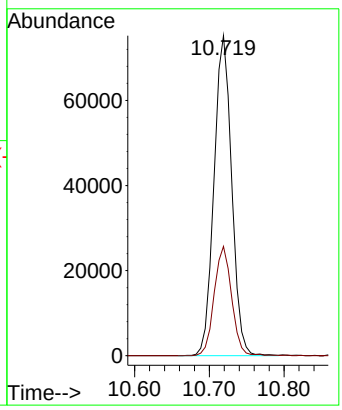
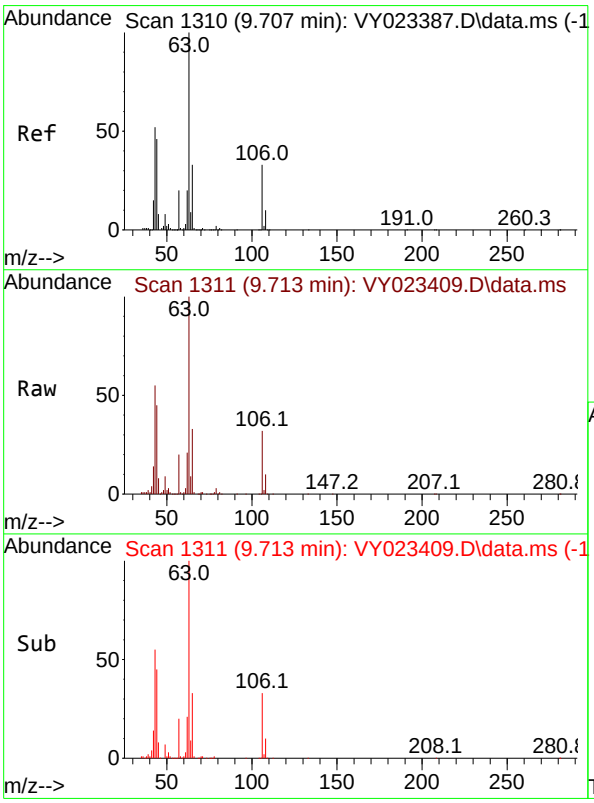
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

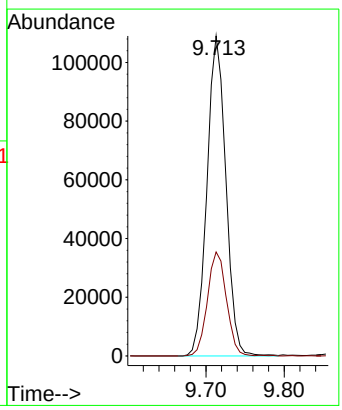


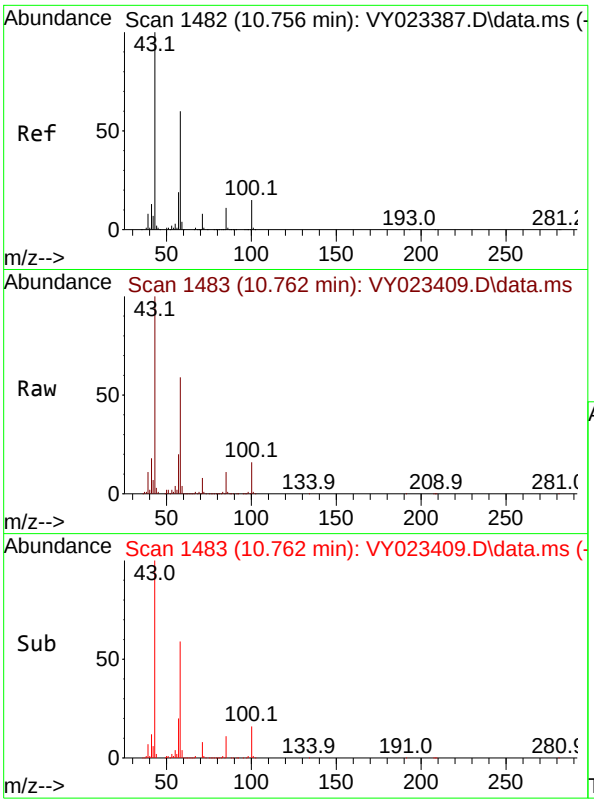




#58
2-Chloroethyl Vinyl ether
Concen: 88.669 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 63 Resp: 182196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 32.8 | 26.6 | 39.8 |






#59
2-Hexanone
Concen: 101.063 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 43 Resp: 19707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 60.5 | 30.5 | 91.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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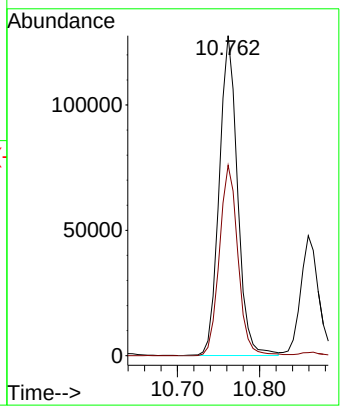
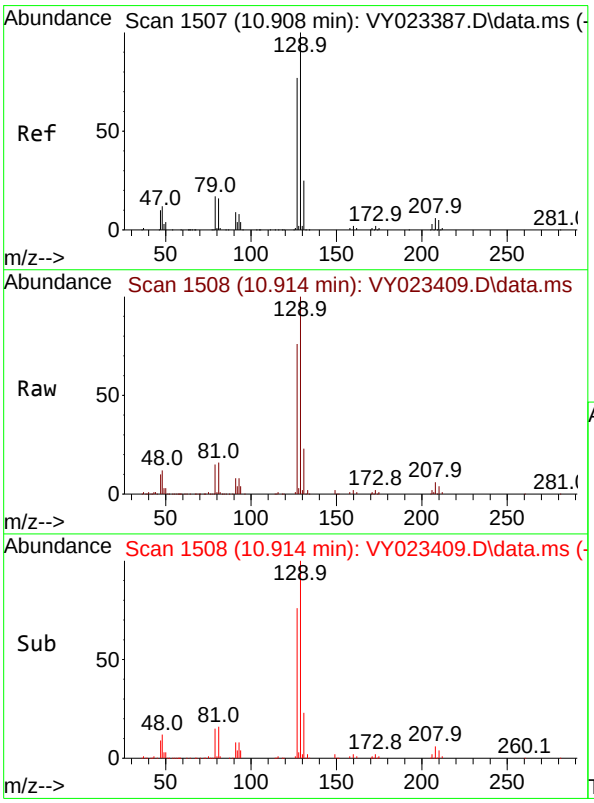
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

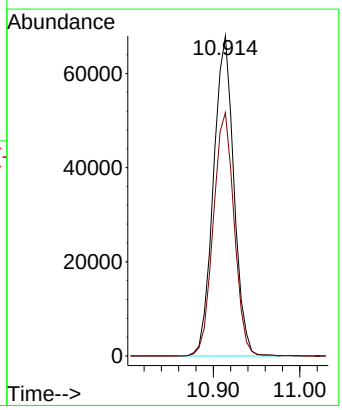


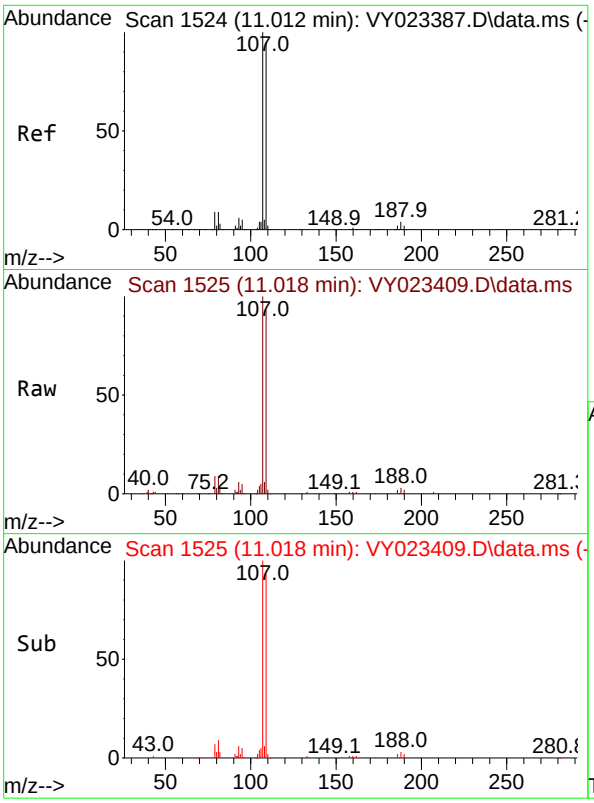




#60
Dibromochloromethane
Concen: 19.945 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:129 Resp: 111195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.6 | 38.6 | 115.7 |

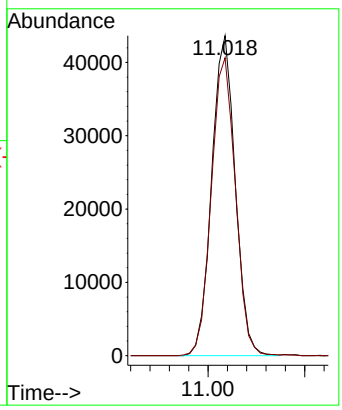





#61
1,2-Dibromoethane
Concen: 19.363 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:107 Resp: 7342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.6 | 76.1 | 114.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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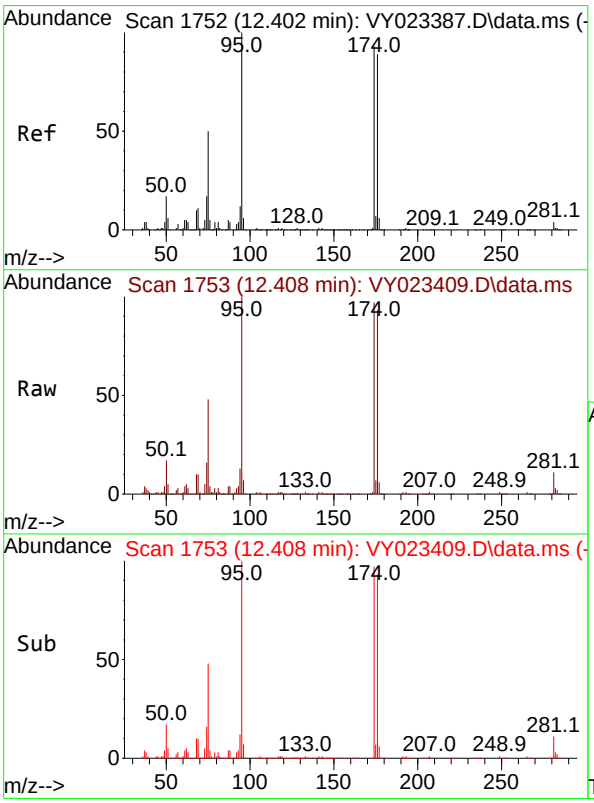
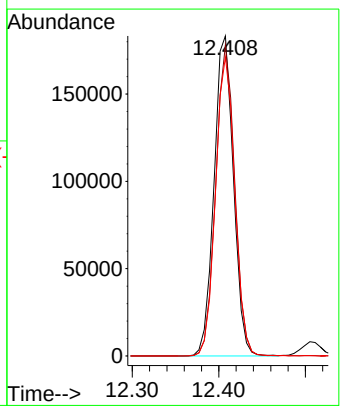
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

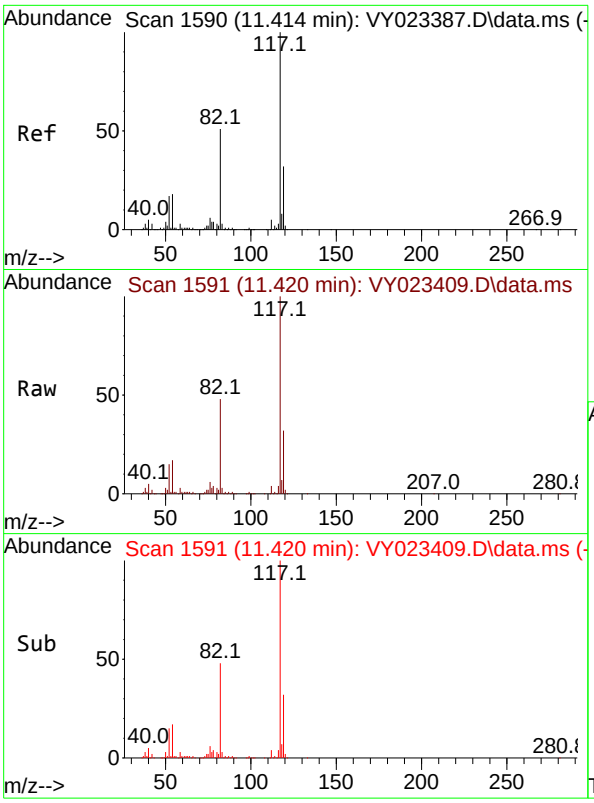



#62
4-Bromofluorobenzene
Concen: 45.979 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 95 Resp: 285471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 95.1 | 0.0 | 192.8 |
| 176 | 92.8 | 0.0 | 187.6 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:117 Resp: 72751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 47.8 | 41.0 | 61.4 |
| 119 | 32.1 | 25.6 | 38.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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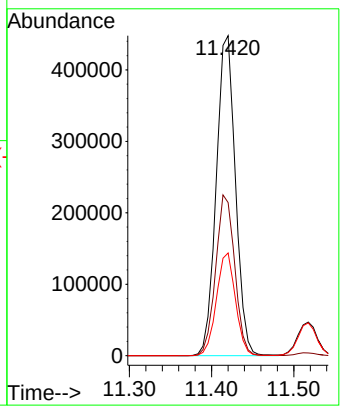
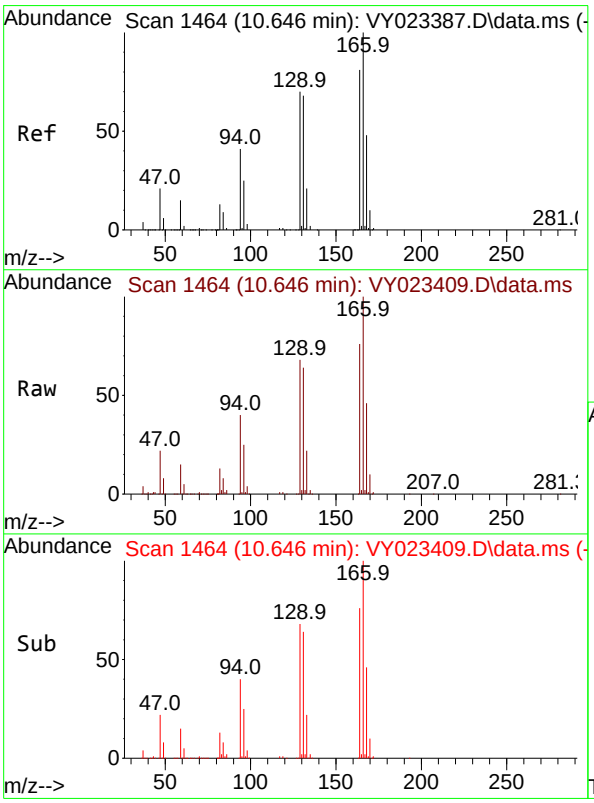
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

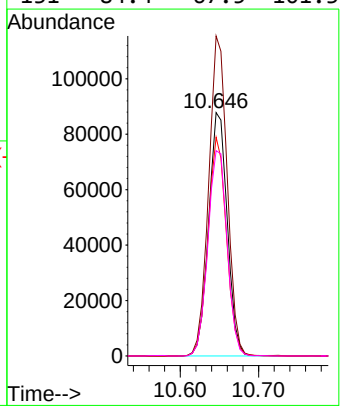


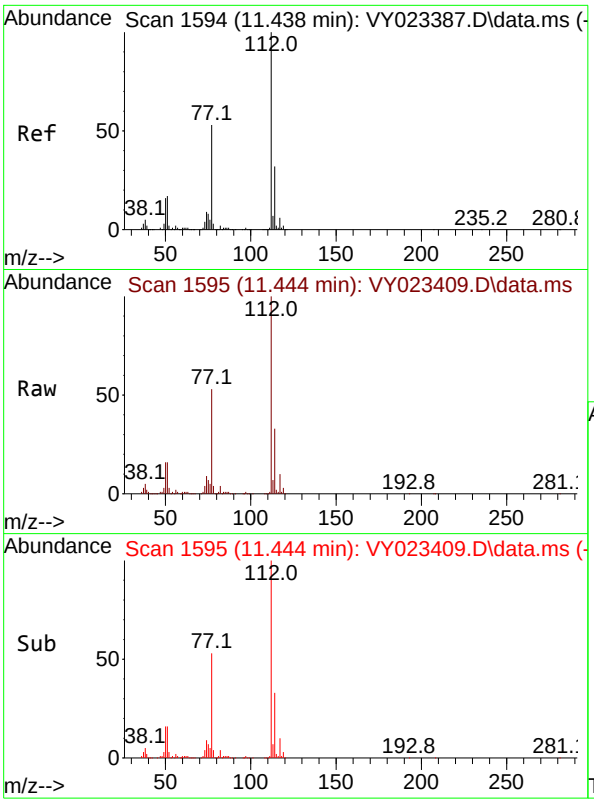




#64
Tetrachloroethene
Concen: 19.382 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:164 Resp: 145594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 131.5 | 99.4 | 149.0 |
| 129 | 89.9 | 69.4 | 104.2 |
| 131 | 84.4 | 67.5 | 101.3 |

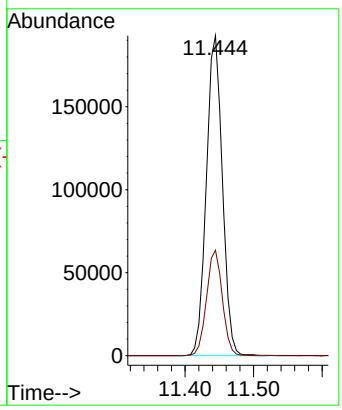





#65
Chlorobenzene
Concen: 19.845 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:112 Resp: 31401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.9 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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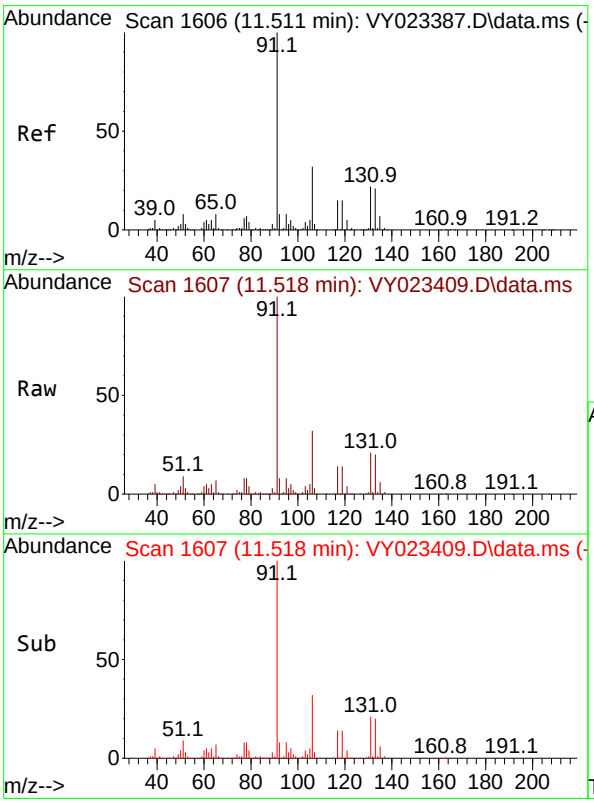
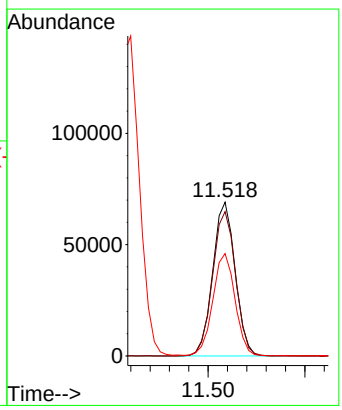
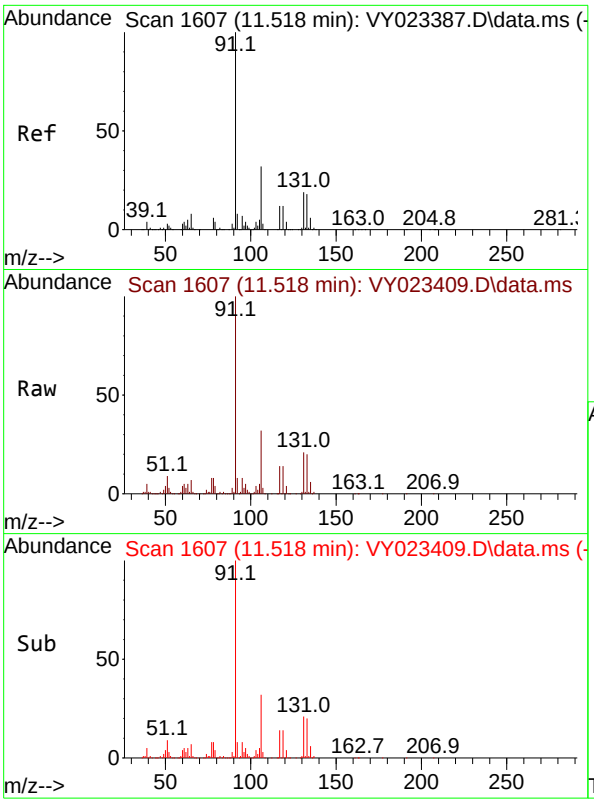



#66
1,1,1,2-Tetrachloroethane
Concen: 19.715 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:131 Resp: 111165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.3 | 48.4 | 145.2 |
| 119 | 66.2 | 32.4 | 97.2 |






#67
Ethyl Benzene
Concen: 19.876 ug/l
RT: 11.518 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 91 Resp: 50908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.5 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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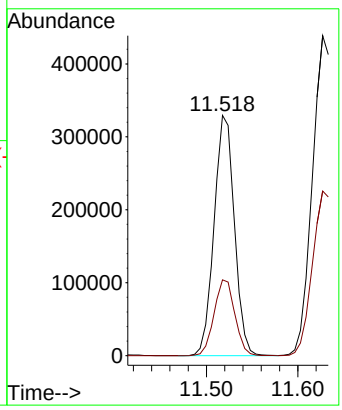
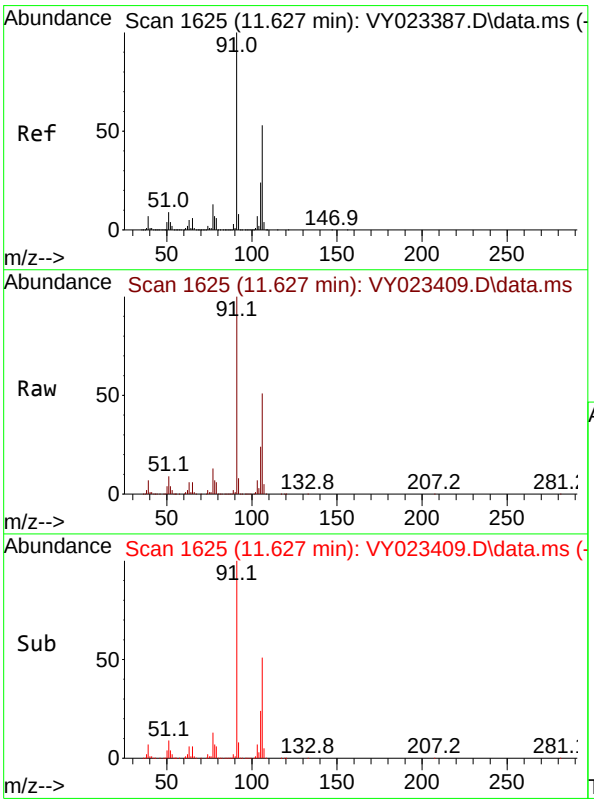
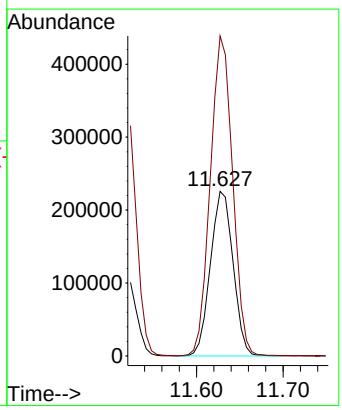


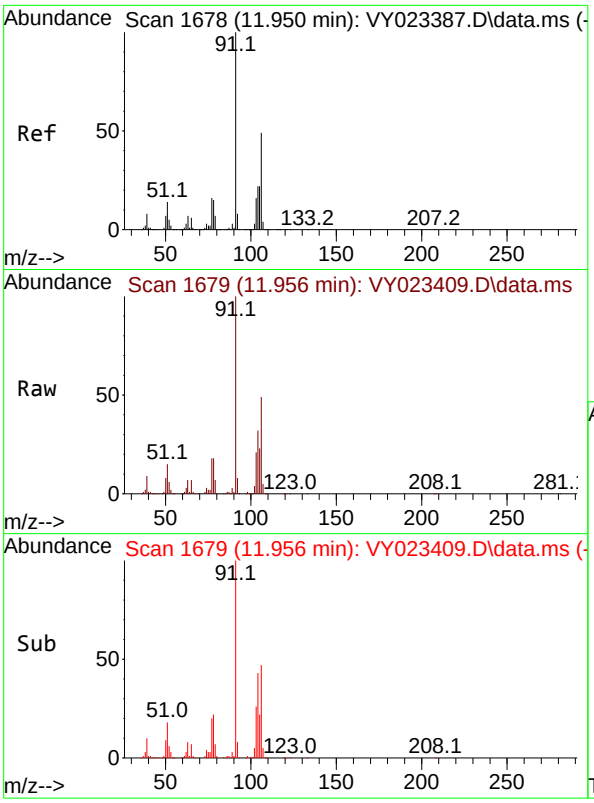




#68
m/p-Xylenes
Concen: 39.916 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:106 Resp: 410062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 191.7 | 152.6 | 229.0 |

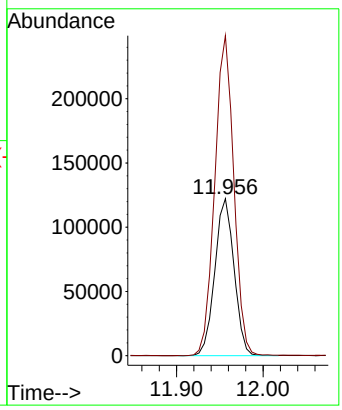





#69
o-Xylene
Concen: 19.581 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:106 Resp: 18868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 201.8 | 101.4 | 304.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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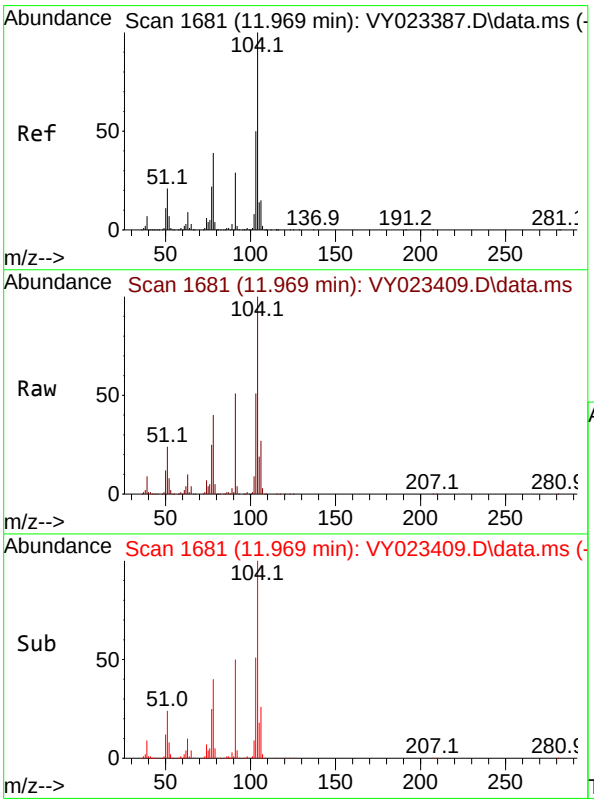
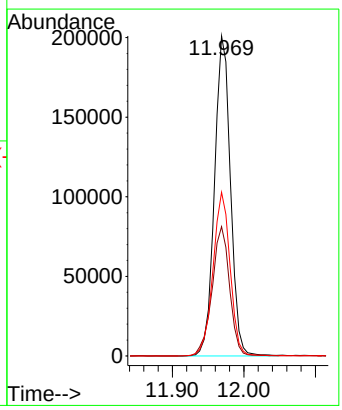
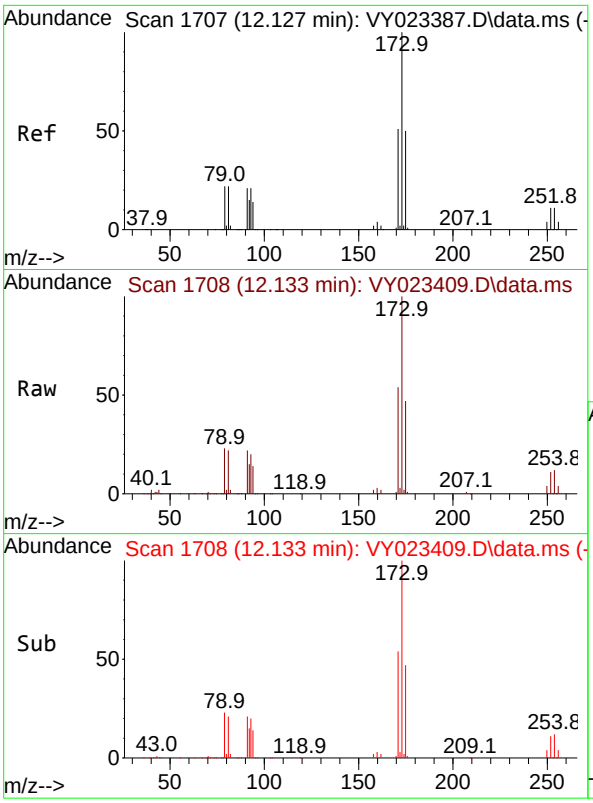



#70
Styrene
Concen: 19.677 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:104 Resp: 311804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 44.3 | 36.1 | 54.1 |
| 103 | 54.8 | 43.2 | 64.8 |

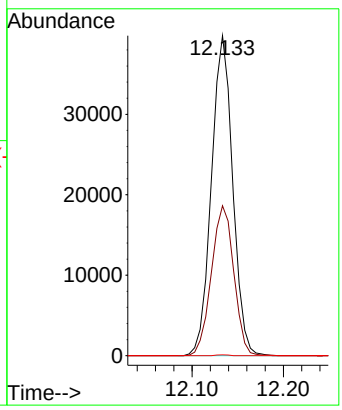





#71
Bromoform
Concen: 18.390 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:173 Resp: 6432

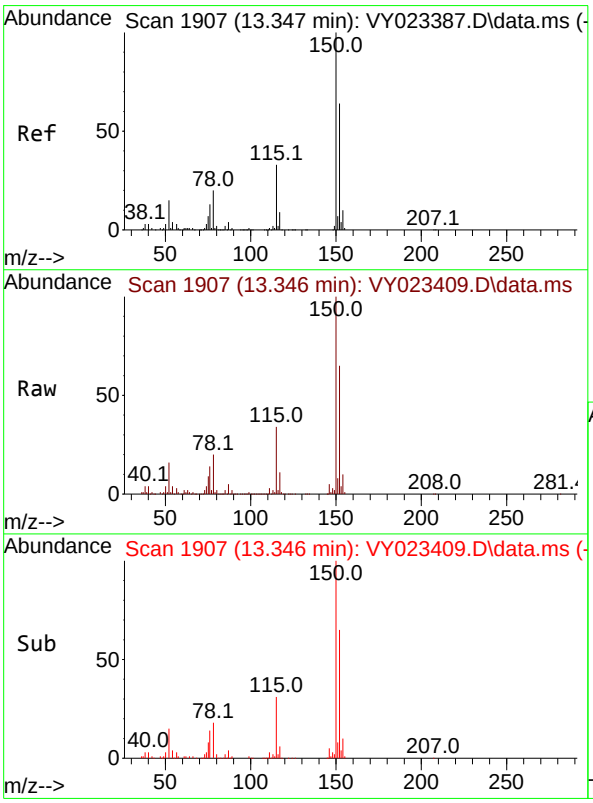
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.3 | 24.8 | 74.3 |
| 254 | 0.2 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

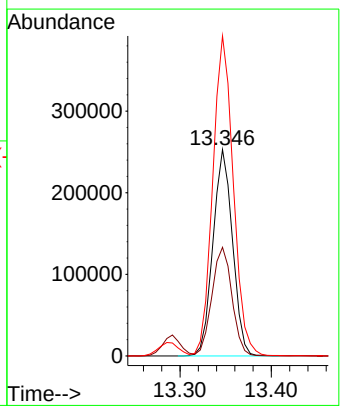
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

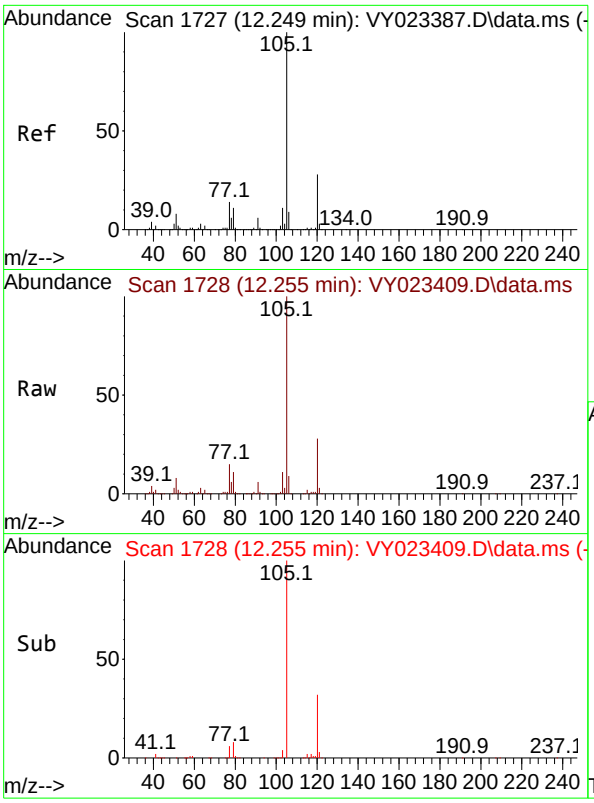



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:152 Resp: 376801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 53.7 | 27.1 | 81.2 |
| 150 | 162.6 | 0.0 | 347.4 |

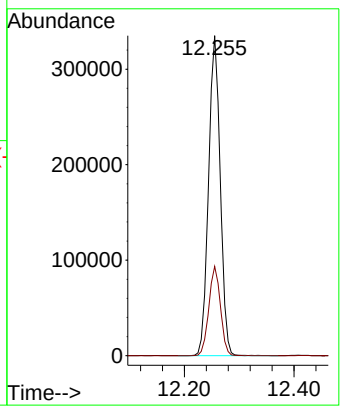





#73
Isopropylbenzene
Concen: 19.864 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:105 Resp: 49325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.7 | 13.9 | 41.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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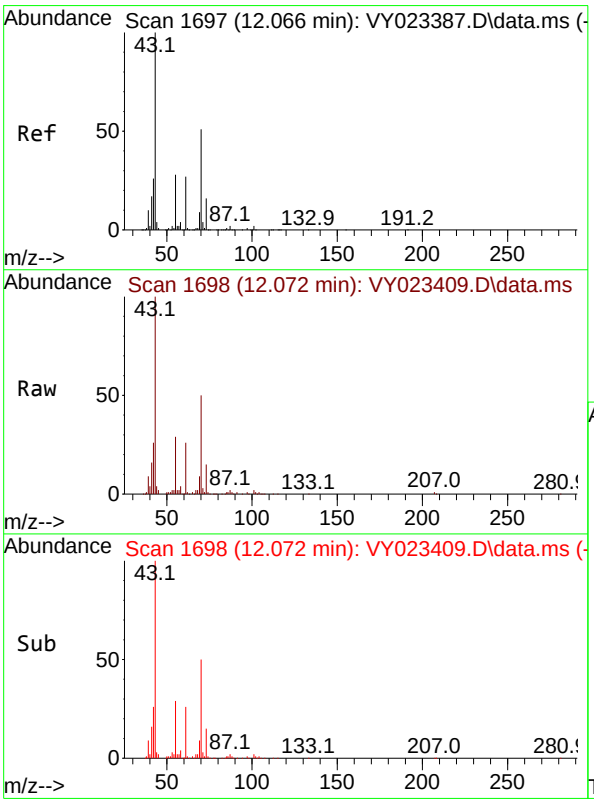
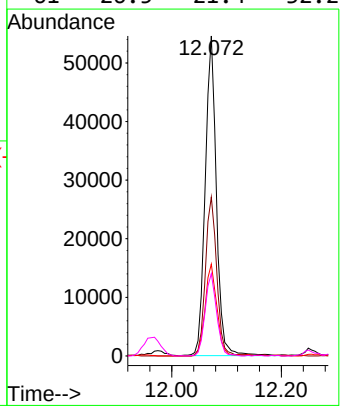
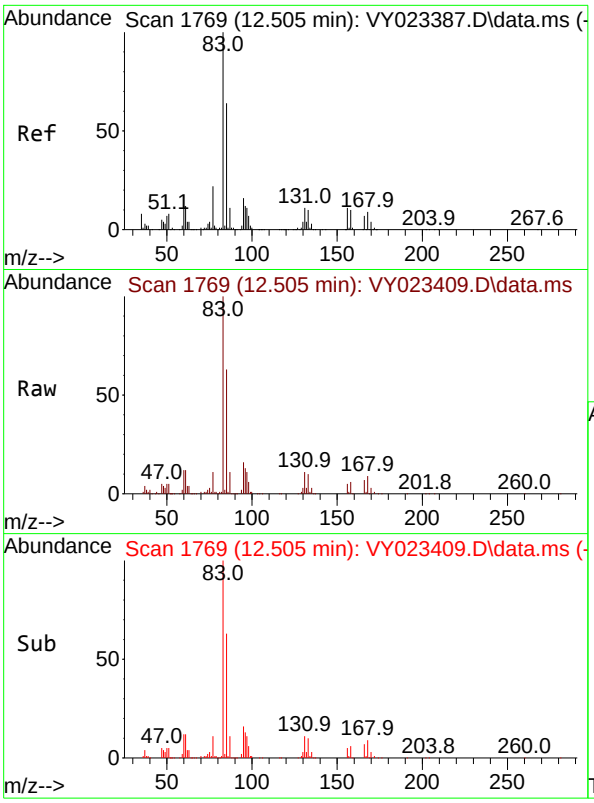



#74
N-amyl acetate
Concen: 17.293 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 43 Resp: 77131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 50.2 | 41.1 | 61.7 |
| 55 | 30.3 | 23.0 | 34.6 |
| 61 | 26.5 | 21.4 | 32.2 |






#75
1,1,2,2-Tetrachloroethane
Concen: 19.352 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 83 Resp: 7859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.8 | 5.9 | 17.6 |
| 85 | 62.8 | 31.8 | 95.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 10/10/2025
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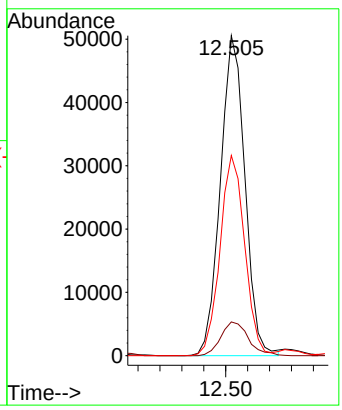
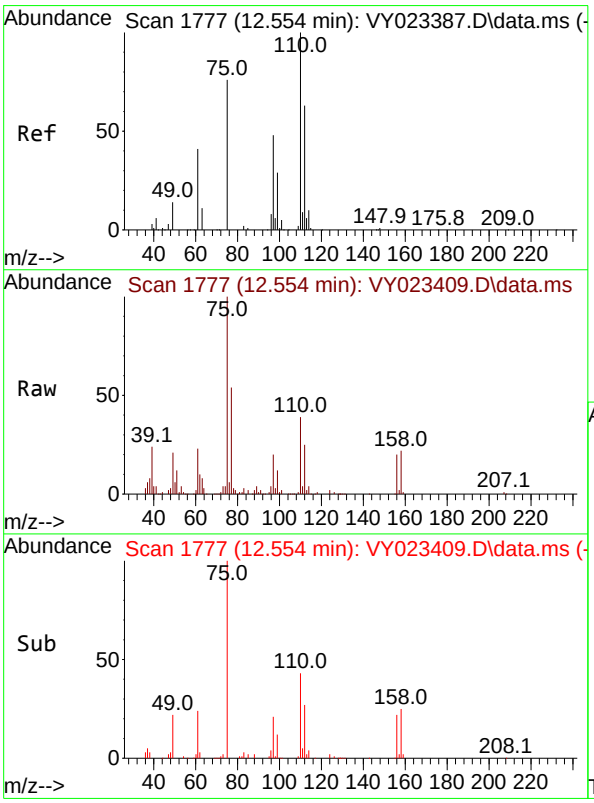
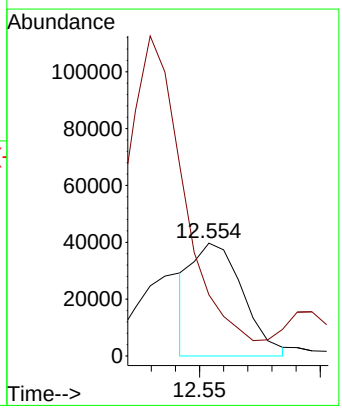


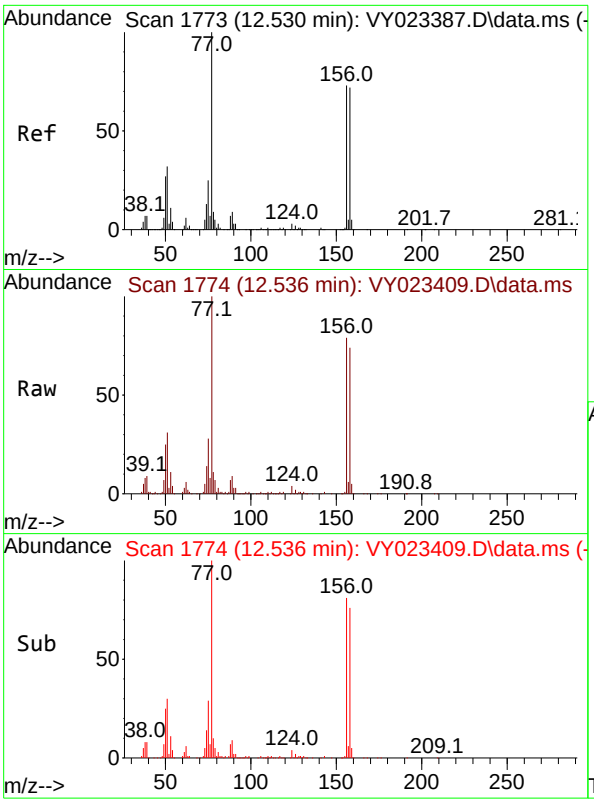




#76
1,2,3-Trichloropropane
Concen: 17.456 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 75 Resp: 58029

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

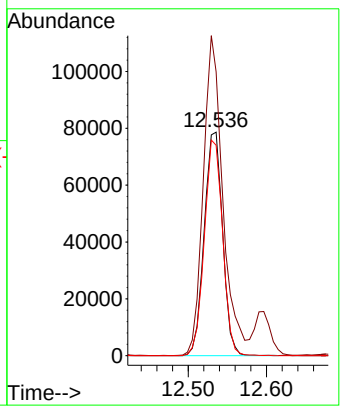





#77
Bromobenzene
Concen: 19.376 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:156 Resp: 12790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 151.3 | 76.8 | 230.5 |
| 158 | 96.2 | 49.0 | 147.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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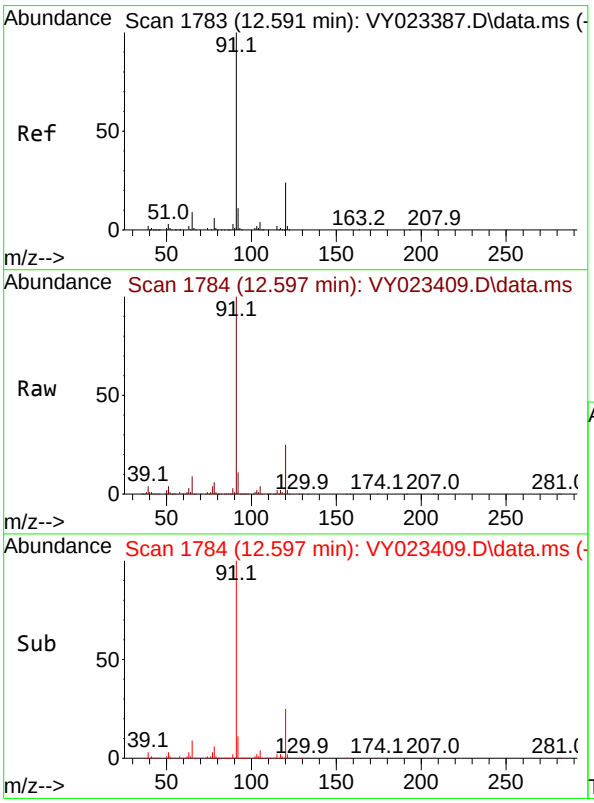
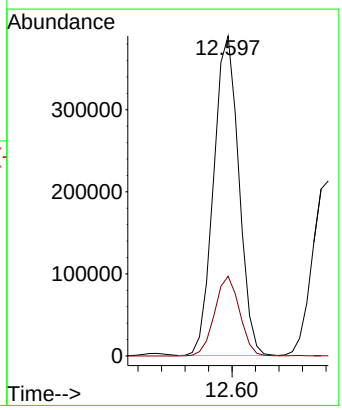
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

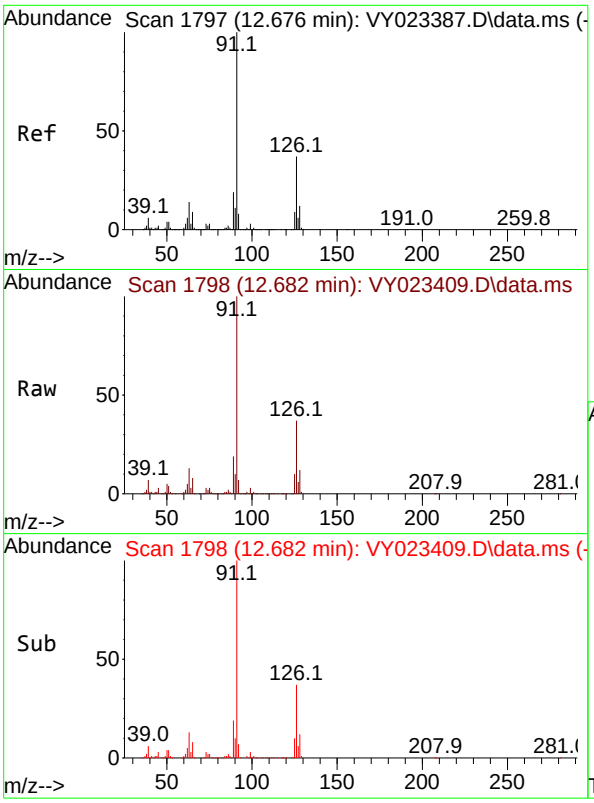



#78
n-propylbenzene
Concen: 20.212 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 91 Resp: 580789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.7 | 12.3 | 36.8 |

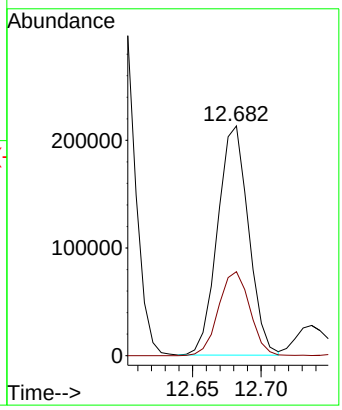





#79
2-Chlorotoluene
Concen: 19.909 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 91 Resp: 33501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 37.1 | 18.5 | 55.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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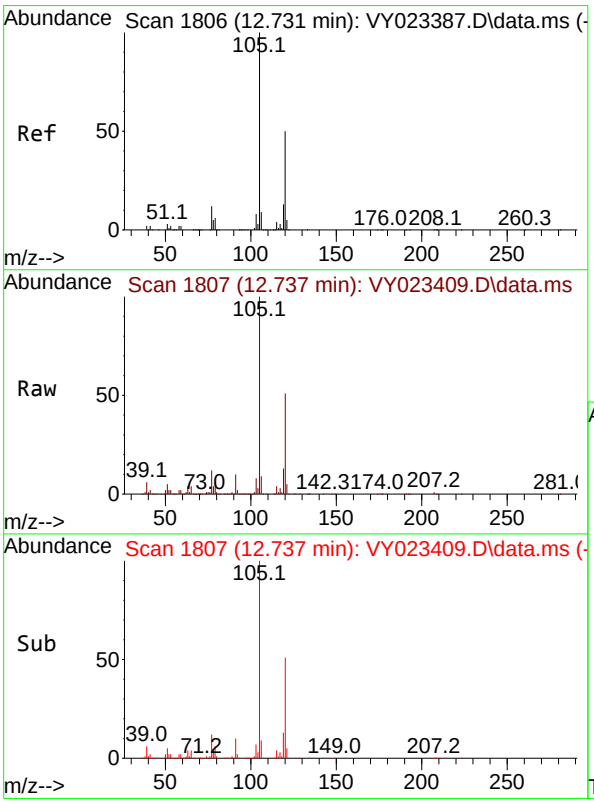
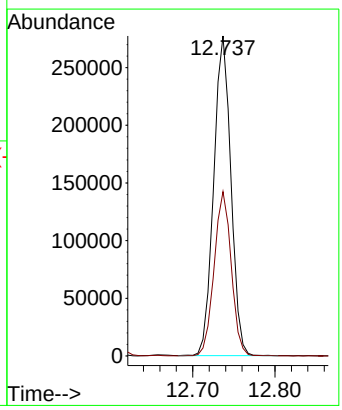
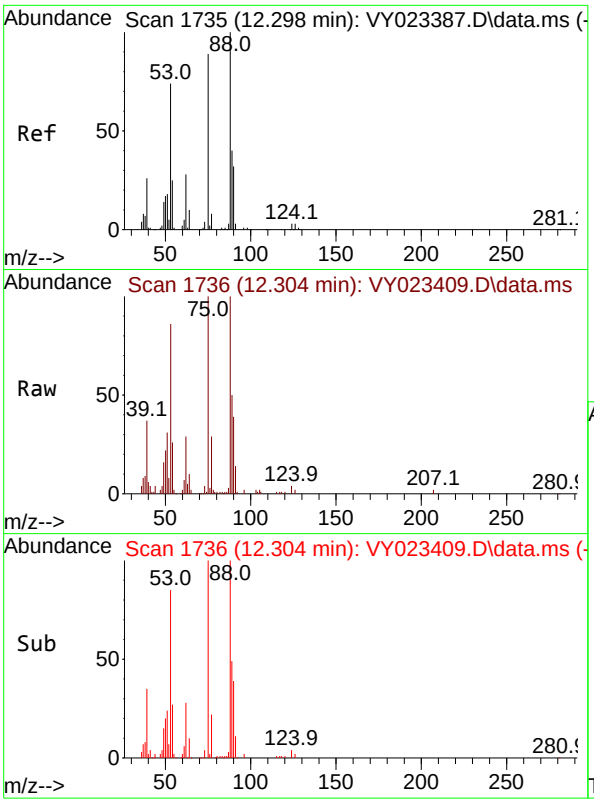



#80
1,3,5-Trimethylbenzene
Concen: 20.082 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:105 Resp: 402952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 51.3 | 25.4 | 76.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 18.150 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 75 Resp: 2460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 85.3 | 68.6 | 102.8 |
| 89 | 49.8 | 39.0 | 58.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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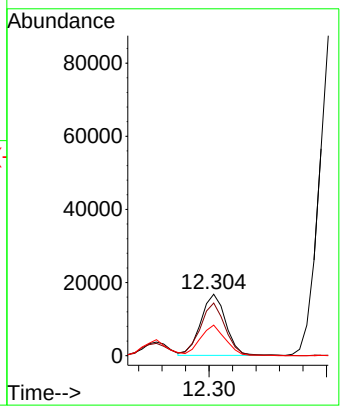
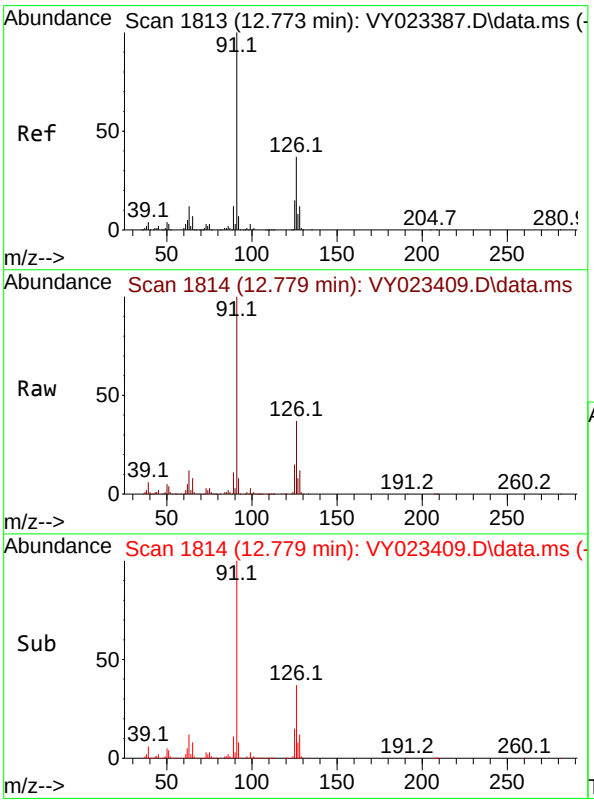
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

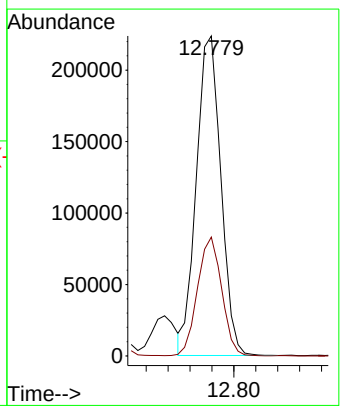


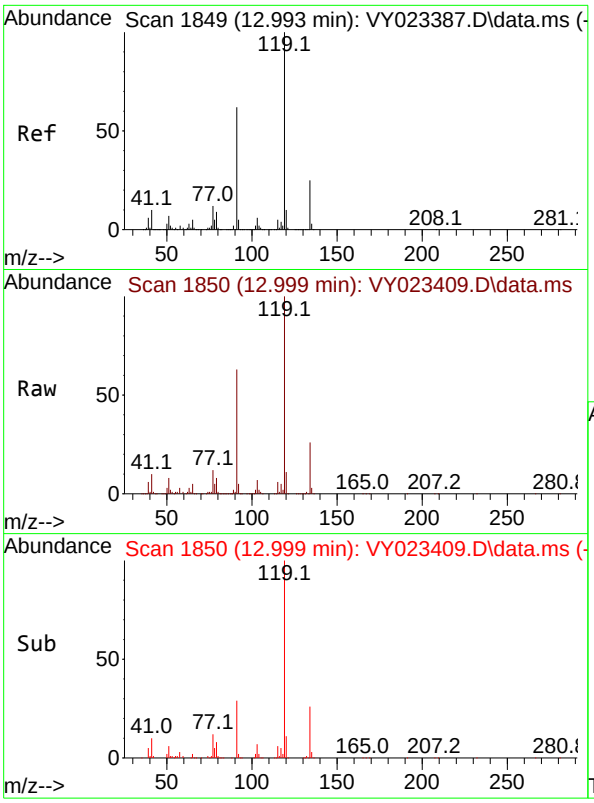




#82
4-Chlorotoluene
Concen: 20.080 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 91 Resp: 347982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.6 | 18.4 | 55.4 |

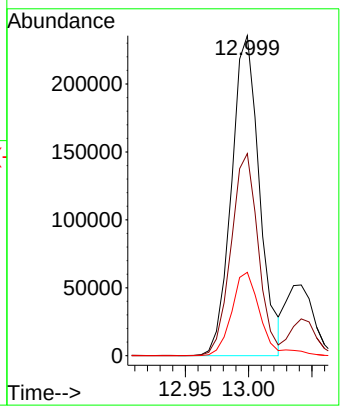





#83
tert-Butylbenzene
Concen: 19.582 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:119 Resp: 36279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 61.1 | 29.9 | 89.8 |
| 134 | 26.9 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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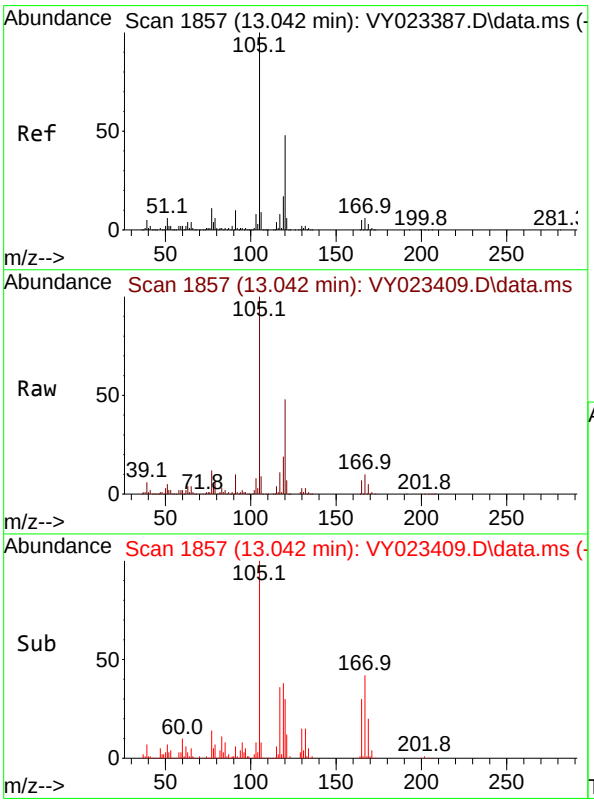
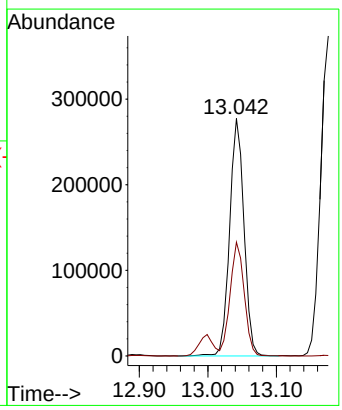
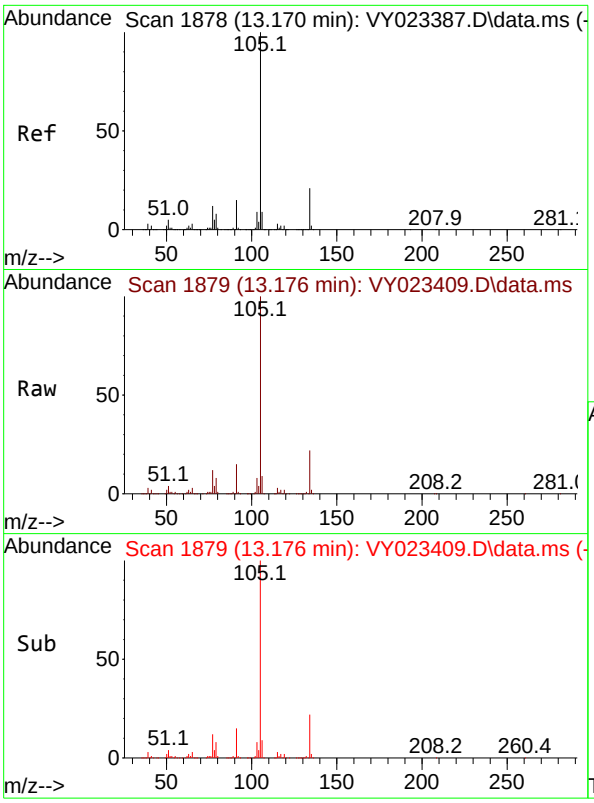



#84
1,2,4-Trimethylbenzene
Concen: 20.139 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:105 Resp: 403304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.1 | 23.8 | 71.2 |






#85
sec-Butylbenzene
Concen: 20.186 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:105 Resp: 53648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.5 | 10.7 | 32.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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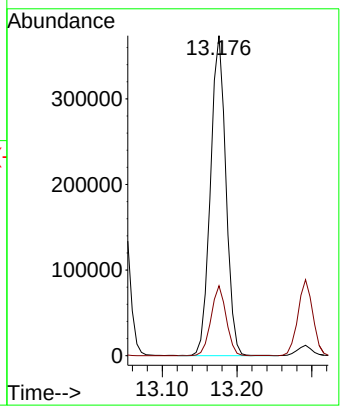
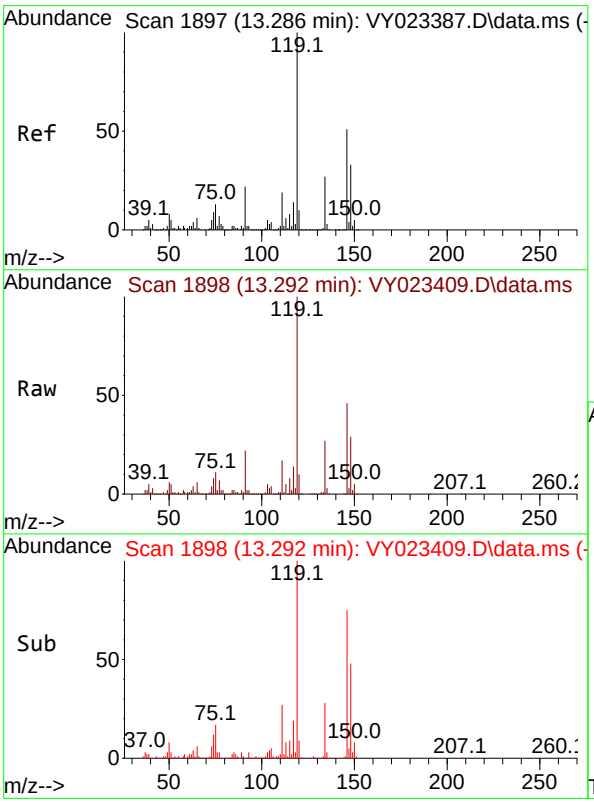
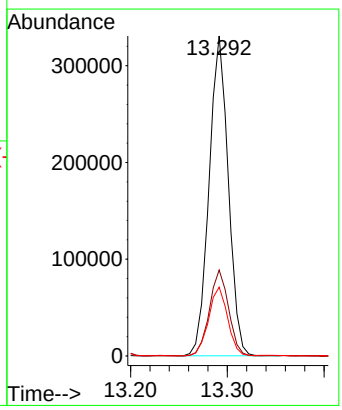


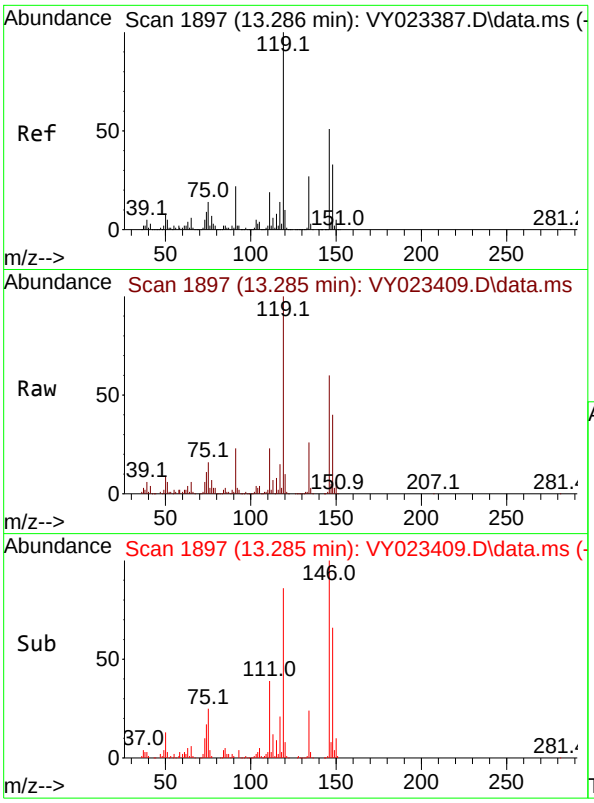




#86
p-Isopropyltoluene
Concen: 20.143 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:119 Resp: 455784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.9 | 13.6 | 40.7 |
| 91 | 21.3 | 10.9 | 32.9 |

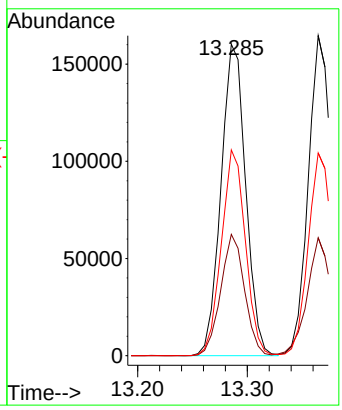





#87
1,3-Dichlorobenzene
Concen: 19.500 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:146 Resp: 25067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.6 | 18.7 | 56.1 |
| 148 | 64.3 | 31.9 | 95.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
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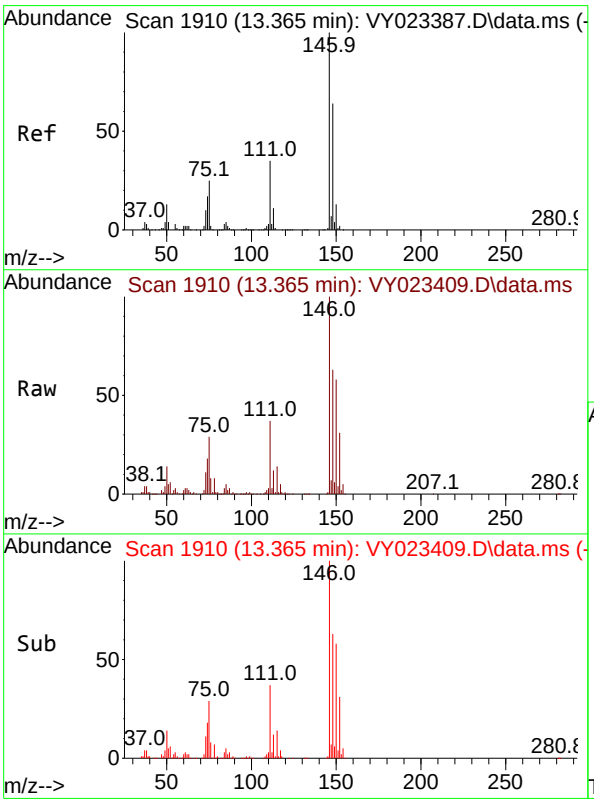
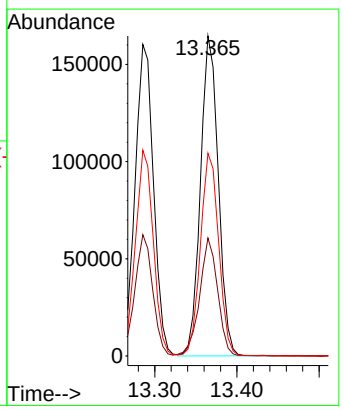
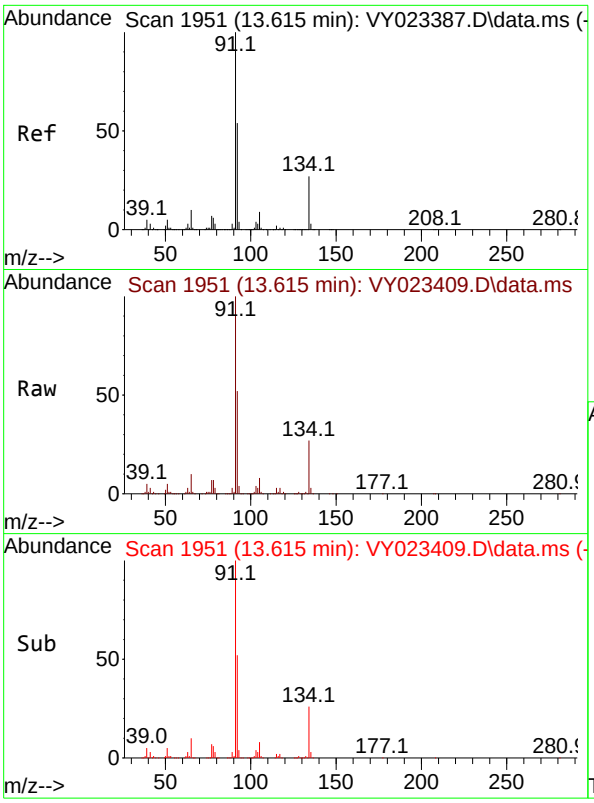



#88
1,4-Dichlorobenzene
Concen: 19.539 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:146 Resp: 248075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.2 | 18.0 | 54.0 |
| 148 | 64.7 | 31.9 | 95.7 |






#89
n-Butylbenzene
Concen: 19.613 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

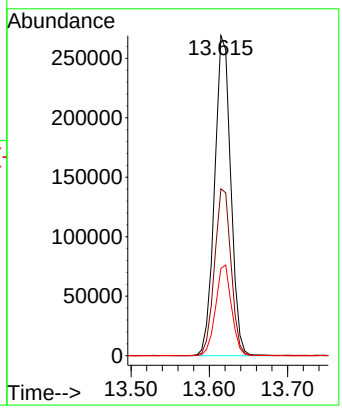
Tgt Ion: 91 Resp: 38669

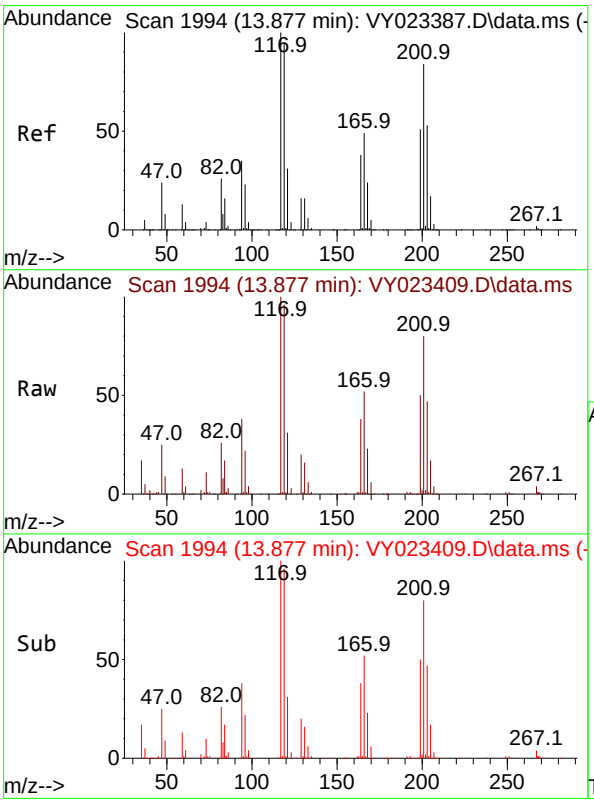
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.1 | 27.0 | 80.8 |
| 134 | 27.9 | 14.1 | 42.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

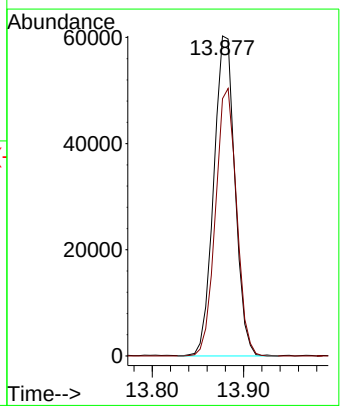


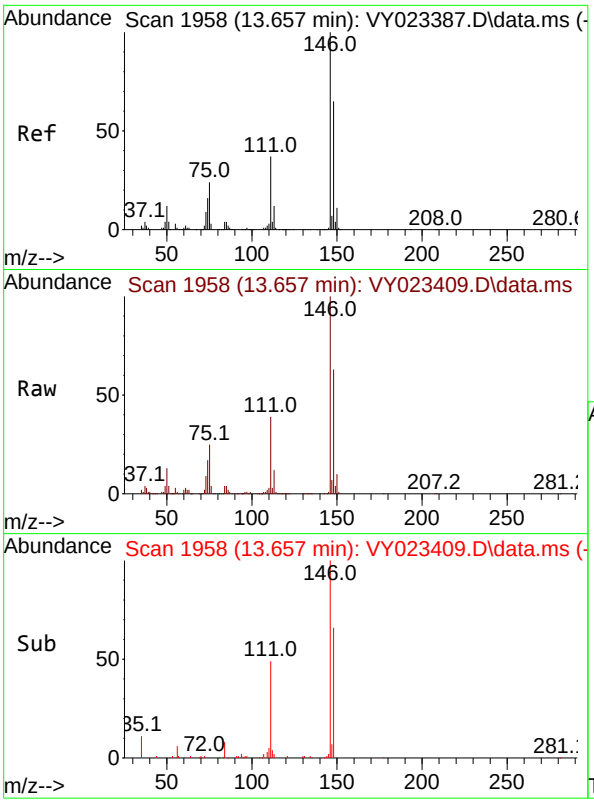




#90
Hexachloroethane
Concen: 20.022 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:117 Resp: 97445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 82.9 | 43.8 | 131.4 |

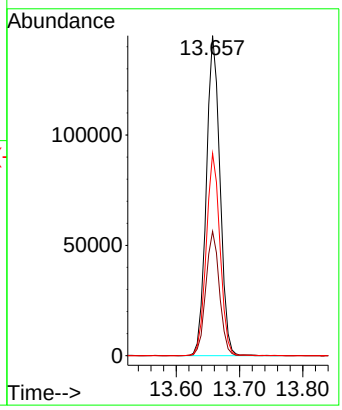





#91
1,2-Dichlorobenzene
Concen: 19.278 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:146 Resp: 21727

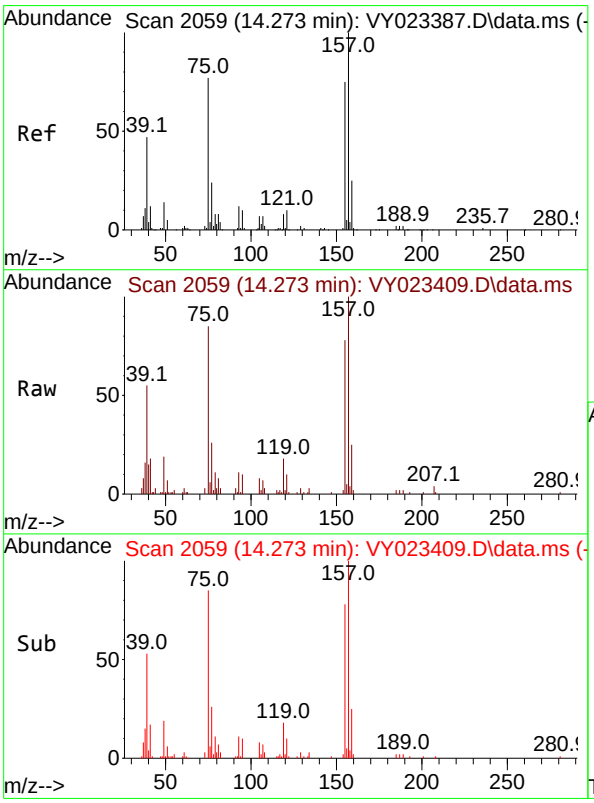
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.7 | 19.0 | 57.0 |
| 148 | 63.8 | 32.1 | 96.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

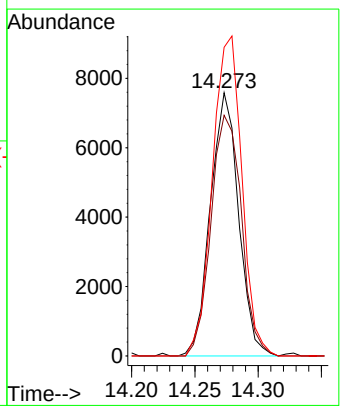
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

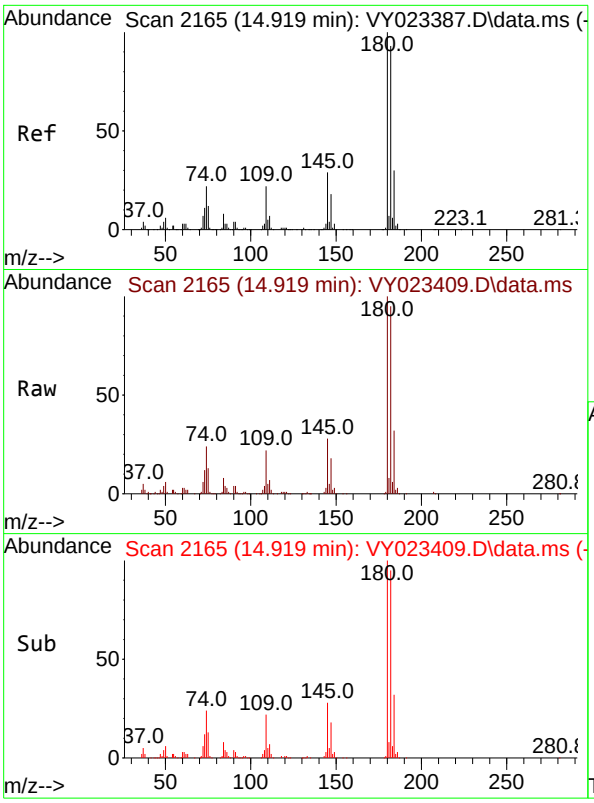



#92
1,2-Dibromo-3-Chloropropane
Concen: 17.656 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion: 75 Resp: 11766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 98.3 | 50.0 | 150.0 |
| 157 | 126.7 | 63.8 | 191.5 |

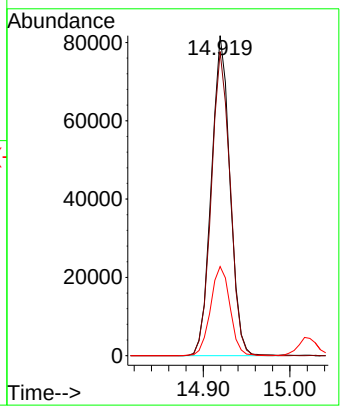





#93
1,2,4-Trichlorobenzene
Concen: 17.372 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:180 Resp: 12205

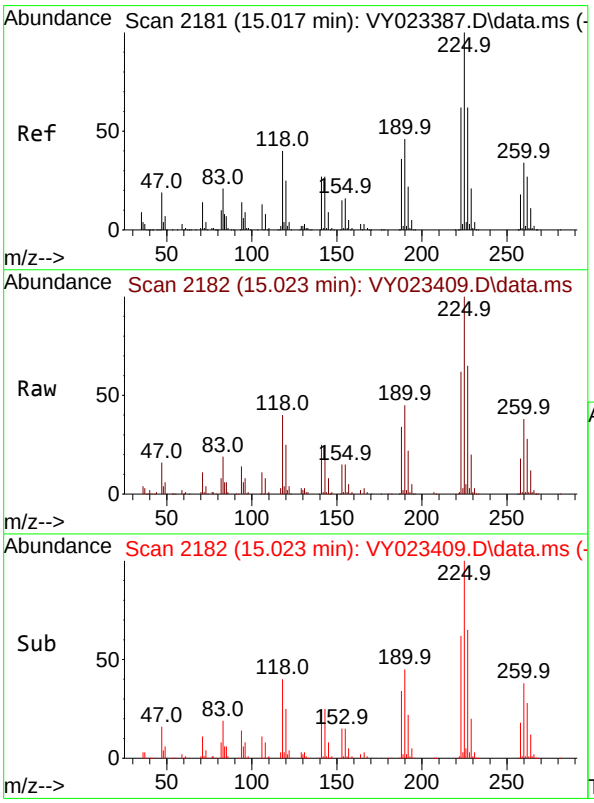
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.0 | 47.9 | 143.6 |
| 145 | 29.1 | 14.7 | 44.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

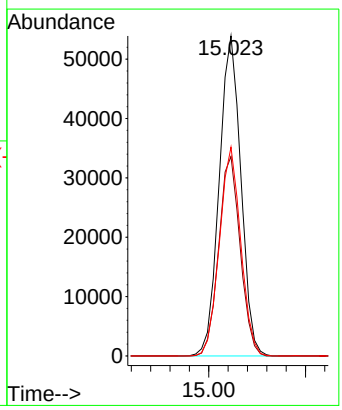
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

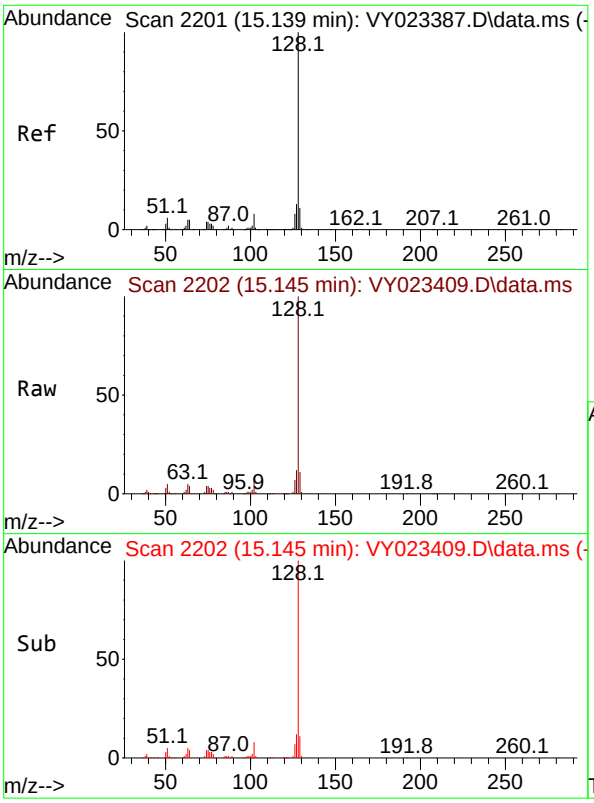



#94
Hexachlorobutadiene
Concen: 19.104 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:225 Resp: 83673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.8 | 30.8 | 92.3 |
| 227 | 64.2 | 31.9 | 95.7 |

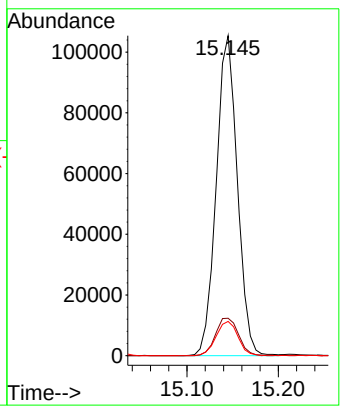





#95
Naphthalene
Concen: 15.125 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:128 Resp: 16922

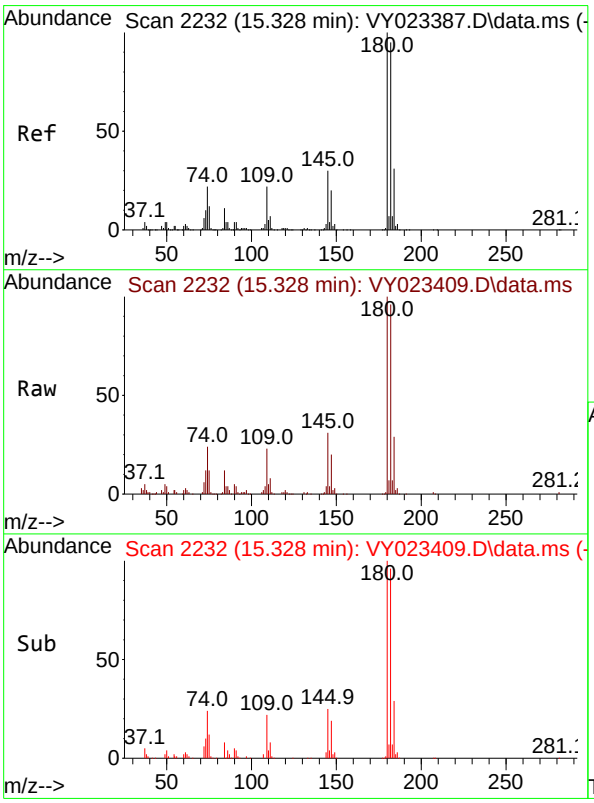
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.4 | 15.6 |
| 129 | 11.2 | 8.9 | 13.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBS01

**Manual Integrations**
**APPROVED**

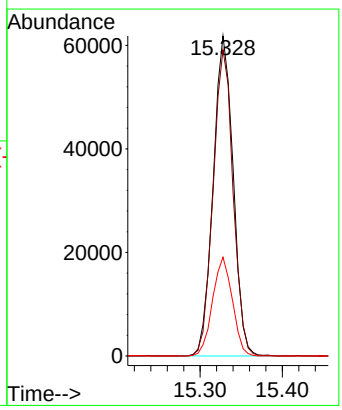
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025




#96
1,2,3-Trichlorobenzene
Concen: 17.142 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY023409.D
Acq: 09 Oct 2025 09:45

Tgt Ion:180 Resp: 104325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 47.9 | 143.8 |
| 145 | 30.5 | 15.3 | 45.9 |



Raw Data: **VY023410.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | |
| Project: | RFP 918 | Date Received: | |
| Client Sample ID: | VY1009SBSD01 | SDG No.: | Q3321 |
| Lab Sample ID: | VY1009SBSD01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023410.D | 1 | 10/09/25 10:08 | VY100925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 22.2 | | 1.10 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 20.6 | | 1.10 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 20.4 | | 0.79 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 20.9 | | 1.10 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 21.2 | | 1.30 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 20.4 | | 1.20 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.2 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 20.6 | | 1.00 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 120 | | 4.70 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 21.1 | | 1.10 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 19.4 | | 0.73 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 16.3 | | 1.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 19.2 | | 3.50 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 21.0 | | 0.86 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 20.8 | | 0.80 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 20.2 | | 0.79 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 110 | | 6.50 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 21.4 | | 0.97 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 20.8 | | 0.75 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 20.5 | | 1.20 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 20.9 | | 0.84 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 21.0 | | 0.93 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 21.1 | | 0.91 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 21.4 | | 0.79 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 20.7 | | 0.79 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 21.1 | | 0.81 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 21.3 | | 0.91 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.8 | | 0.78 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 94.8 | | 3.60 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 21.4 | | 0.78 | 5.00 | ug/Kg |

Raw Data: **VY023410.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | |
| Project: | RFP 918 | Date Received: | |
| Client Sample ID: | VY1009SBSD01 | SDG No.: | Q3321 |
| Lab Sample ID: | VY1009SBSD01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023410.D | 1 | 10/09/25 10:08 | VY100925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 19.9 | | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.8 | | 0.62 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 20.4 | | 0.92 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 100 | | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 20.5 | | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 20.0 | | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 21.7 | | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 21.2 | | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.9 | | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 42.3 | | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 20.7 | | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 20.7 | | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 19.5 | | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 21.1 | | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 19.7 | | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 20.8 | | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 20.7 | | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.6 | | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 19.1 | | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 18.6 | | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 18.2 | | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 47.2 | | 63 - 155 | 94% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.5 | | 70 - 134 | 99% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.3 | | 74 - 123 | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.7 | | 17 - 146 | 95% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 548000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 792000 | 8.615 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 697000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 360000 | 13.346 | | | |

Raw Data: **VY023410.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | |
| Project: | RFP 918 | Date Received: | |
| Client Sample ID: | VY1009SBSD01 | SDG No.: | Q3321 |
| Lab Sample ID: | VY1009SBSD01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023410.D | 1 | 10/09/25 10:08 | VY100925 |

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

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

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

Sample Results: **VY023410.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023410.D
Acq On : 09 Oct 2025 10:08
Operator : SY/MD
Sample : VY1009SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 10 04:22:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 547576 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 791873 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 696551 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 359830 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 215950 | 47.162 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 94.320% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 240847 | 49.499 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 99.000% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 912325 | 50.348 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 100.700% | | | |
| 62) 4-Bromofluorobenzene | 12.407 | 95 | 285456 | 47.716 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 95.440% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 87549 | 22.213 | ug/l | 100 |
| 3) Chloromethane | 2.074 | 50 | 110830 | 20.642 | ug/l | 100 |
| 4) Vinyl Chloride | 2.208 | 62 | 142908 | 20.435 | ug/l | 99 |
| 5) Bromomethane | 2.592 | 94 | 122755 | 20.917 | ug/l | 96 |
| 6) Chloroethane | 2.738 | 64 | 100987 | 21.185 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 198410 | 20.433 | ug/l | 97 |
| 8) Diethyl Ether | 3.458 | 74 | 49360 | 19.454 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 107003 | 21.236 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 115949 | 20.670 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.860 | 59 | 34542 | 101.402 | ug/l # | 94 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 100792 | 20.635 | ug/l | 93 |
| 13) Acrolein | 3.659 | 56 | 40485 | 84.109 | ug/l | 97 |
| 14) Allyl chloride | 4.391 | 41 | 119653 | 20.100 | ug/l | 99 |
| 15) Acrylonitrile | 5.061 | 53 | 91665 | 94.402 | ug/l | 100 |
| 16) Acetone | 3.872 | 43 | 131313 | 120.460 | ug/l | 98 |
| 17) Carbon Disulfide | 4.110 | 76 | 294633 | 21.075 | ug/l | 99 |
| 18) Methyl Acetate | 4.397 | 43 | 46736 | 16.344 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 227743 | 19.400 | ug/l | 95 |
| 20) Methylene Chloride | 4.622 | 84 | 113269 | 19.216 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 112932 | 21.000 | ug/l | 99 |
| 22) Diisopropyl ether | 6.024 | 45 | 268741 | 20.409 | ug/l | 98 |
| 23) Vinyl Acetate | 5.970 | 43 | 714408 | 100.236 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 181268 | 20.782 | ug/l | 98 |
| 25) 2-Butanone | 6.896 | 43 | 142358 | 106.969 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 169519 | 21.181 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 128941 | 20.757 | ug/l | 98 |
| 28) Bromochloromethane | 7.250 | 49 | 66685 | 20.480 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.268 | 42 | 70408 | 93.296 | ug/l | 98 |
| 30) Chloroform | 7.427 | 83 | 200410 | 20.913 | ug/l | 95 |
| 31) Cyclohexane | 7.707 | 56 | 154069 | 20.227 | ug/l | 93 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 183274 | 21.045 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 138615 | 21.519 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 51475 | 20.170 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 166972 | 21.377 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 177139 | 21.120 | ug/l | 96 |
| 40) Benzene | 8.085 | 78 | 436426 | 21.393 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023410.D
Acq On : 09 Oct 2025 10:08
Operator : SY/MD
Sample : VY1009SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 10 04:22:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 25670 | 18.598 | ug/l | # | 71 |
| 42) 1,2-Dichloroethane | 8.164 | 62 | 109045 | 20.726 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 97524 | 19.165 | ug/l | # | 85 |
| 44) Trichloroethene | 8.865 | 130 | 126004 | 21.103 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 95951 | 21.294 | ug/l | | 98 |
| 46) Dibromomethane | 9.231 | 93 | 59353 | 20.831 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.426 | 83 | 148955 | 20.758 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.225 | 41 | 43089 | 18.024 | ug/l | | 93 |
| 49) 1,4-Dioxane | 9.231 | 88 | 12439 | 376.544 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 249347 | 94.838 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 284102 | 21.449 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 124152 | 19.898 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 153238 | 20.809 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 78245 | 20.422 | ug/l | | 91 |
| 56) Ethyl methacrylate | 10.438 | 69 | 83077 | 18.797 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 126624 | 20.856 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 185766 | 93.826 | ug/l | | 99 |
| 59) 2-Hexanone | 10.761 | 43 | 194921 | 103.740 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.914 | 129 | 110073 | 20.491 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.017 | 107 | 73124 | 20.012 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.646 | 164 | 156158 | 21.712 | ug/l | | 99 |
| 65) Chlorobenzene | 11.444 | 112 | 320704 | 21.169 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 112990 | 20.929 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.517 | 91 | 511858 | 20.873 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 416514 | 42.346 | ug/l | | 98 |
| 69) o-Xylene | 11.956 | 106 | 191098 | 20.713 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 314637 | 20.739 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 65314 | 19.504 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 499324 | 21.057 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 77981 | 18.309 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 76498 | 19.724 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 57851m | 18.223 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 130681 | 20.729 | ug/l | | 99 |
| 78) n-propylbenzene | 12.596 | 91 | 590757 | 21.528 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 336924 | 20.967 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 407825 | 21.283 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 24664 | 19.051 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 350046 | 21.151 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 370714 | 20.953 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 407038 | 21.285 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 546067 | 21.516 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 459158 | 21.249 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 255893 | 20.845 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 250747 | 20.681 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.615 | 91 | 390969 | 20.765 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 98225 | 21.134 | ug/l | | 95 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 221929 | 20.620 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 12135 | 19.069 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 125048 | 18.637 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 85691 | 20.487 | ug/l | | 98 |
| 95) Naphthalene | 15.145 | 128 | 175290 | 16.406 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 105694 | 18.186 | ug/l | | 99 |

Sample Results: **VY023410.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023410.D
Acq On : 09 Oct 2025 10:08
Operator : SY/MD
Sample : VY1009SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 10 04:22:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

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

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

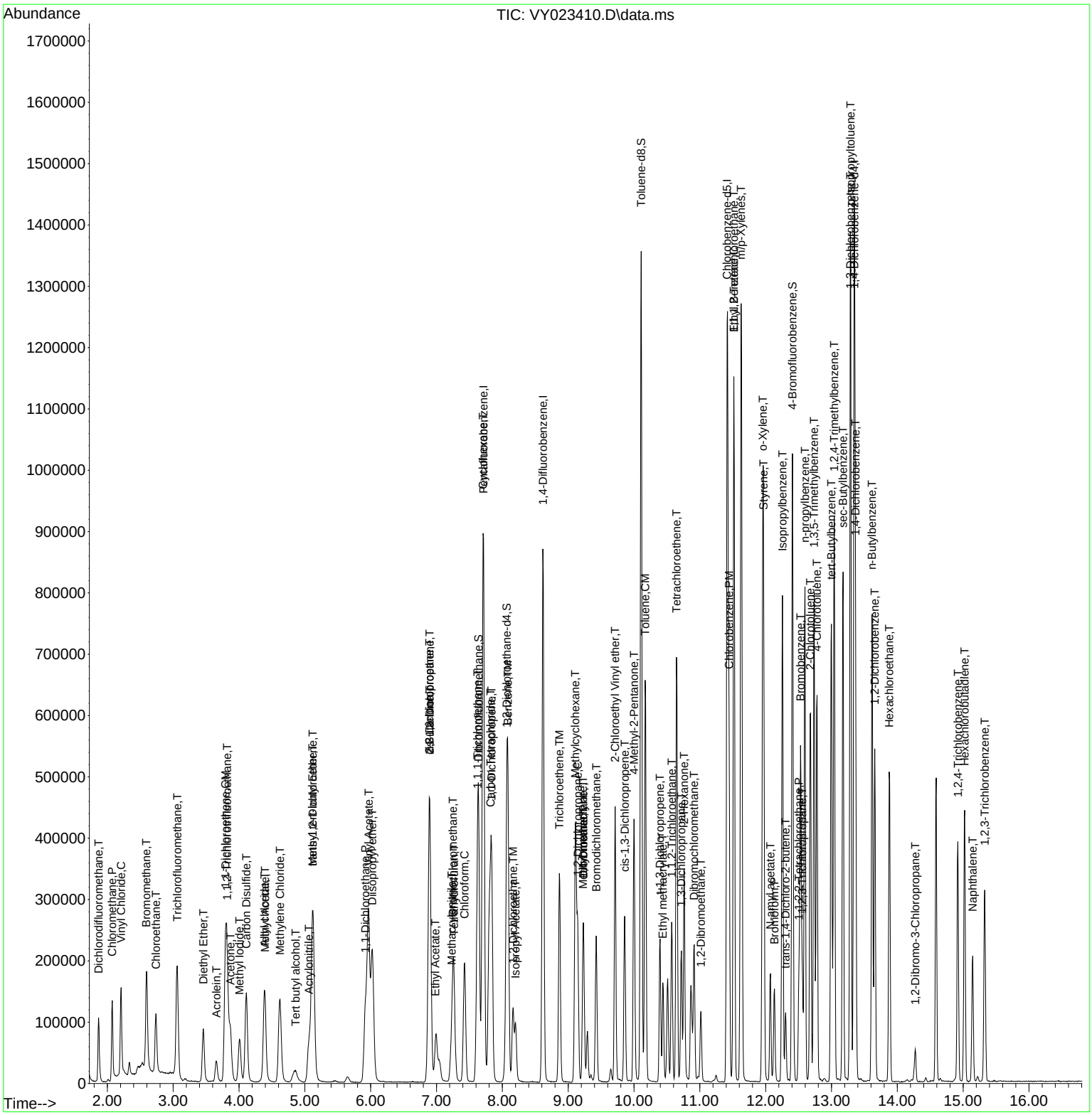
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023410.D
Acq On : 09 Oct 2025 10:08
Operator : SY/MD
Sample : VY1009SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

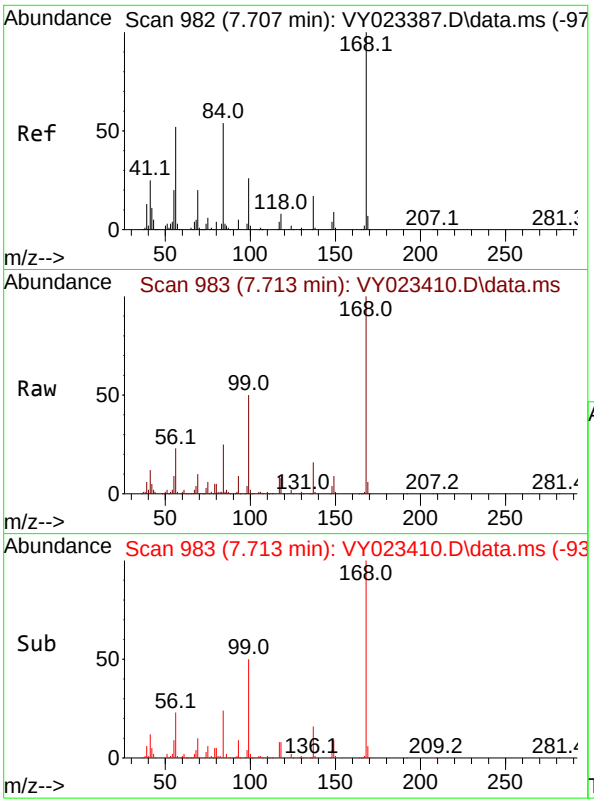
Quant Time: Oct 10 04:22:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

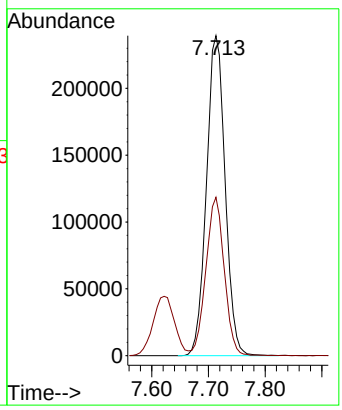





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:168 Resp: 54757

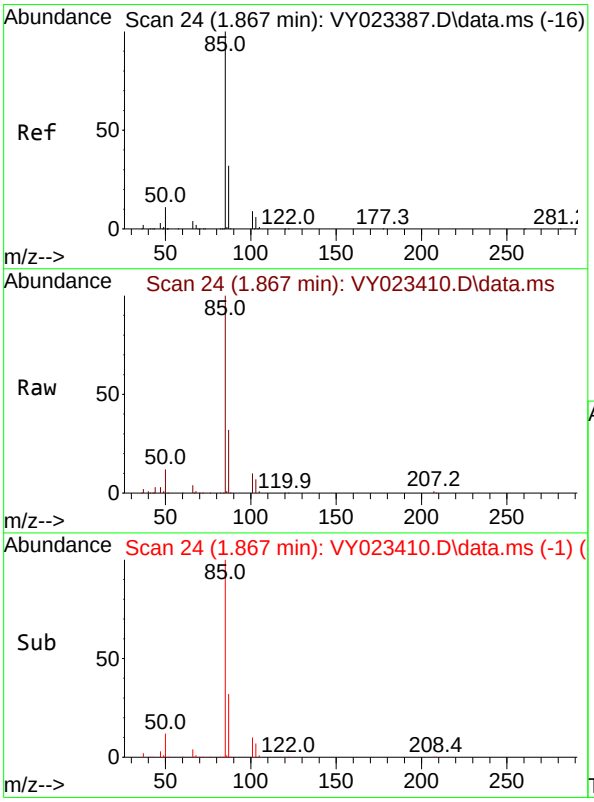
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 49.5 | 39.7 | 59.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

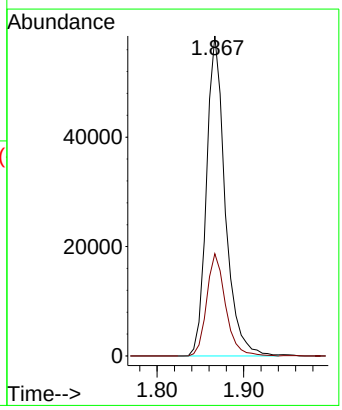
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

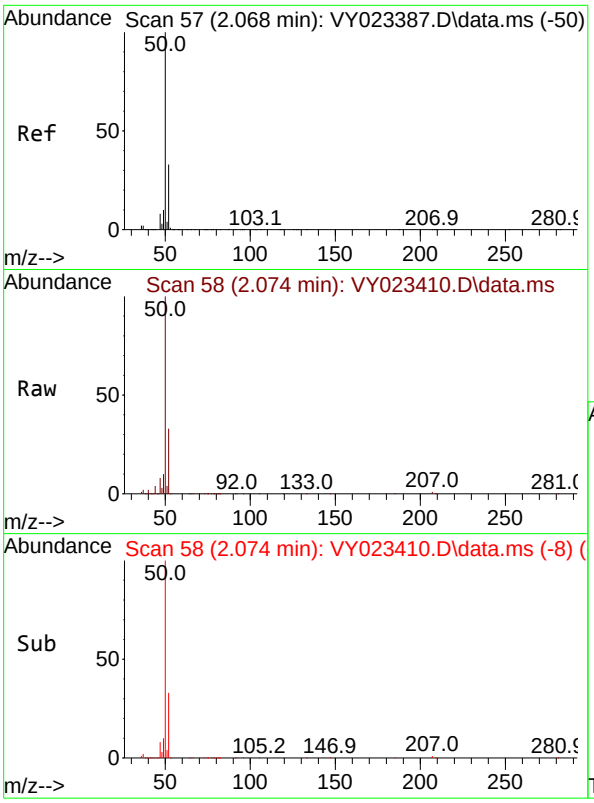



#2
Dichlorodifluoromethane
Concen: 22.213 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 85 Resp: 87549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.0 | 16.0 | 47.9 |

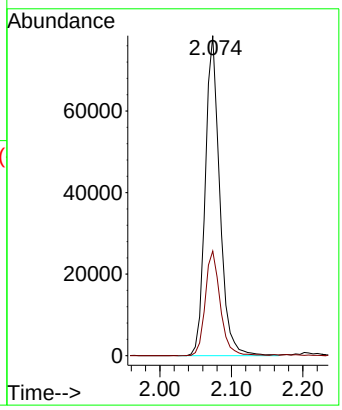





#3
Chloromethane
Concen: 20.642 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 50 Resp: 11083

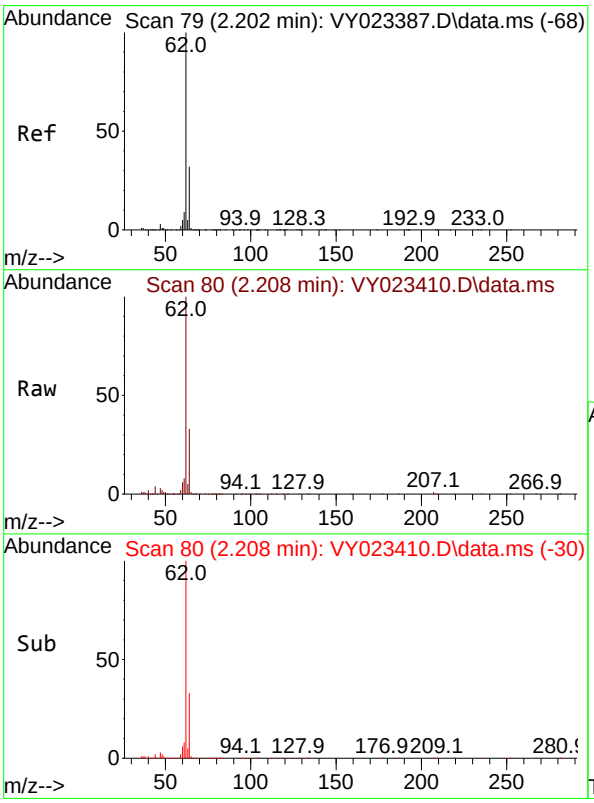
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.7 | 26.2 | 39.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

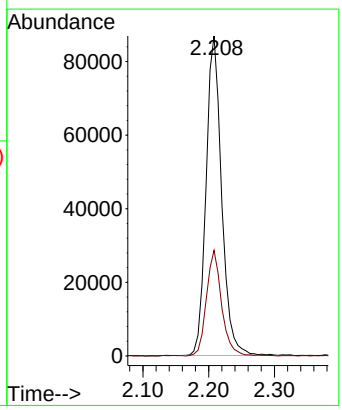
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

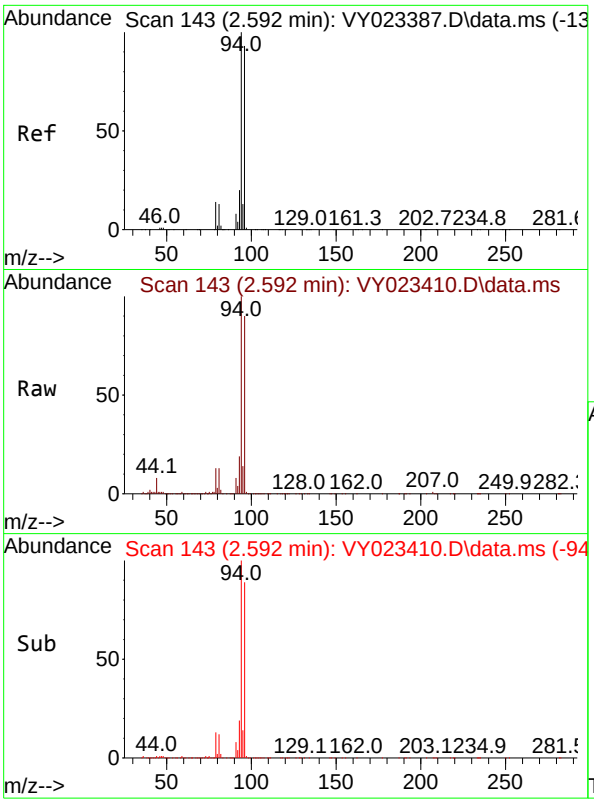



#4
Vinyl Chloride
Concen: 20.435 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 62 Resp: 142908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.1 | 25.8 | 38.8 |

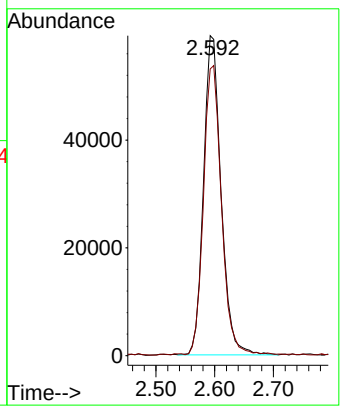





#5
Bromomethane
Concen: 20.917 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 94 Resp: 12275

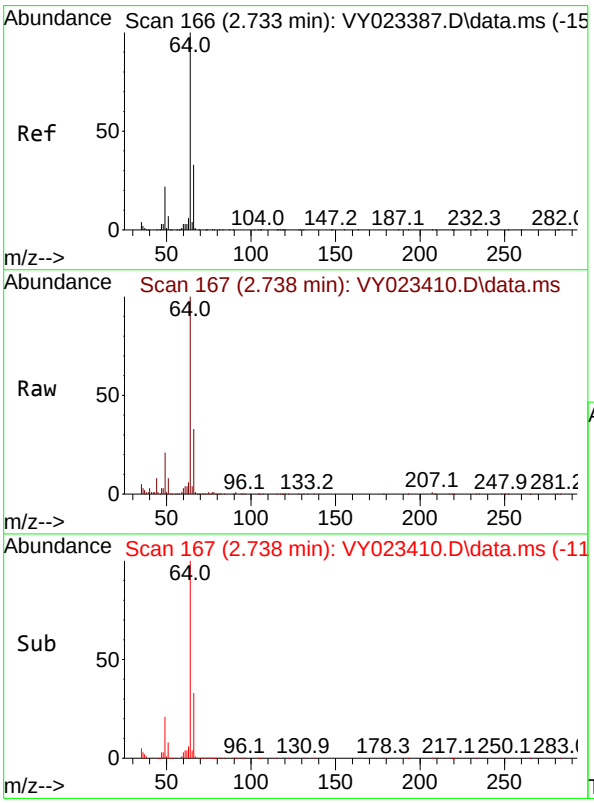
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 89.3 | 74.5 | 111.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

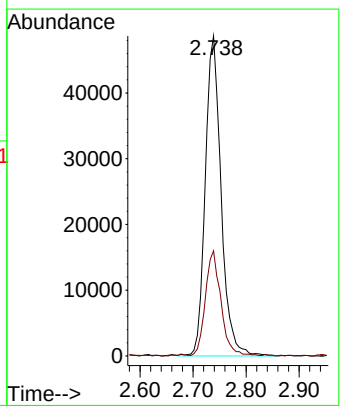
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

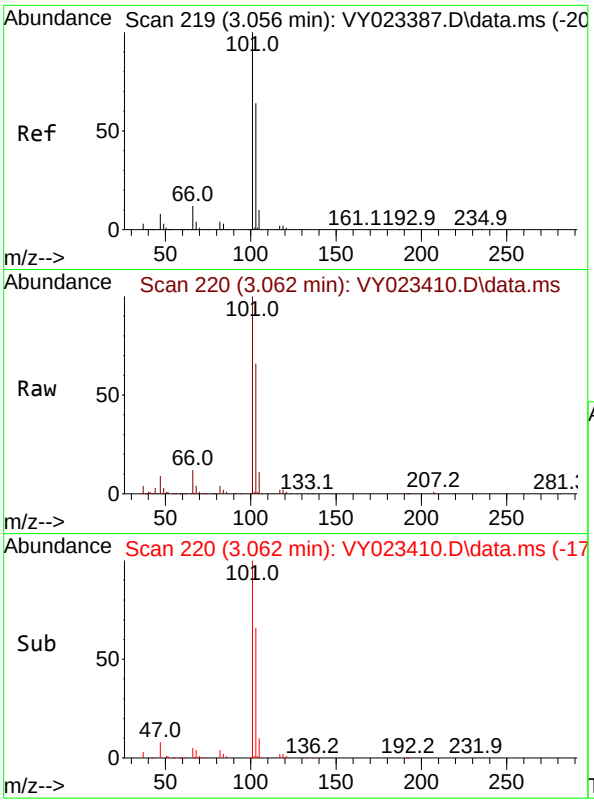



#6
Chloroethane
Concen: 21.185 ug/l
RT: 2.738 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 64 Resp: 100987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.8 | 26.2 | 39.4 |






#7
Trichlorofluoromethane
Concen: 20.433 ug/l
RT: 3.062 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

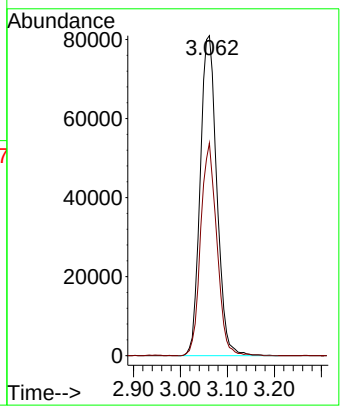
Tgt Ion:101 Resp: 19841

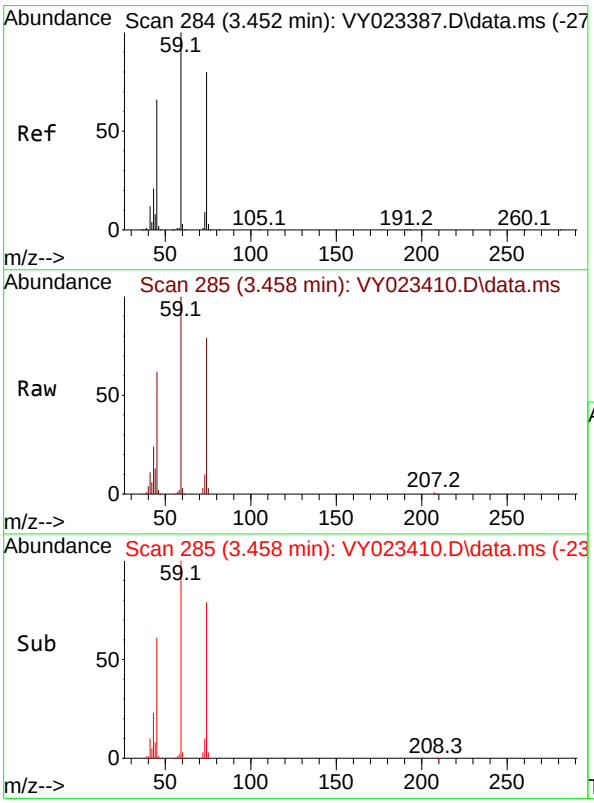
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.4 | 51.3 | 76.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

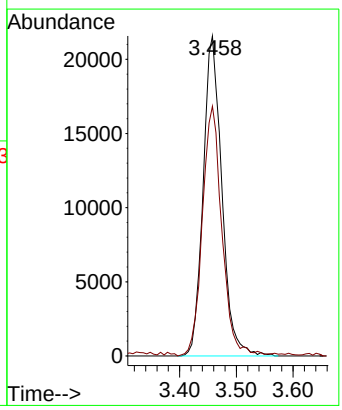


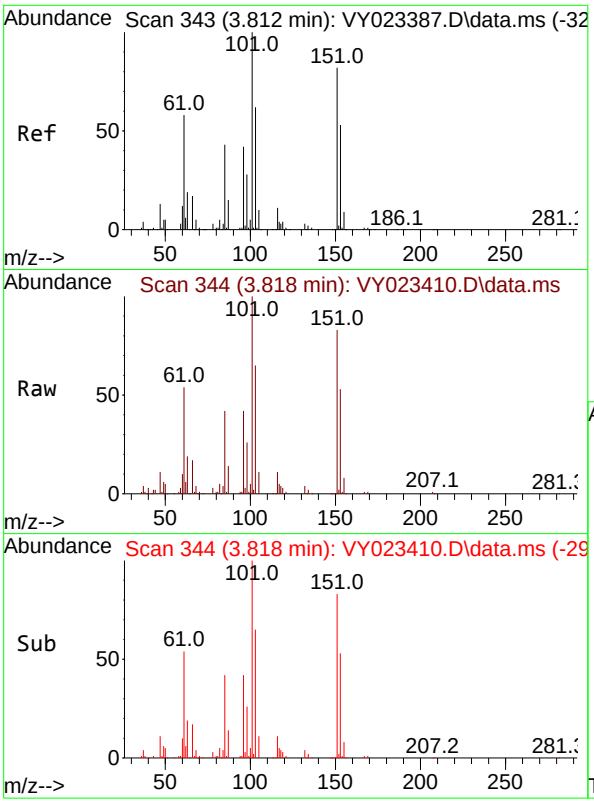




#8
Diethyl Ether
Concen: 19.454 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 74 Resp: 49360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 81.7 | 39.9 | 119.7 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.236 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

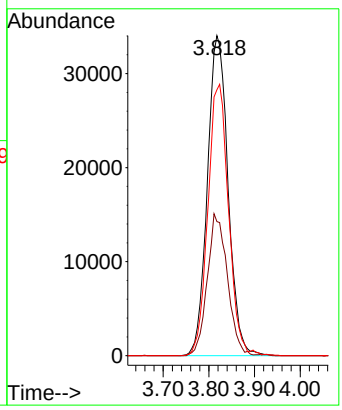
Tgt Ion:101 Resp: 10700

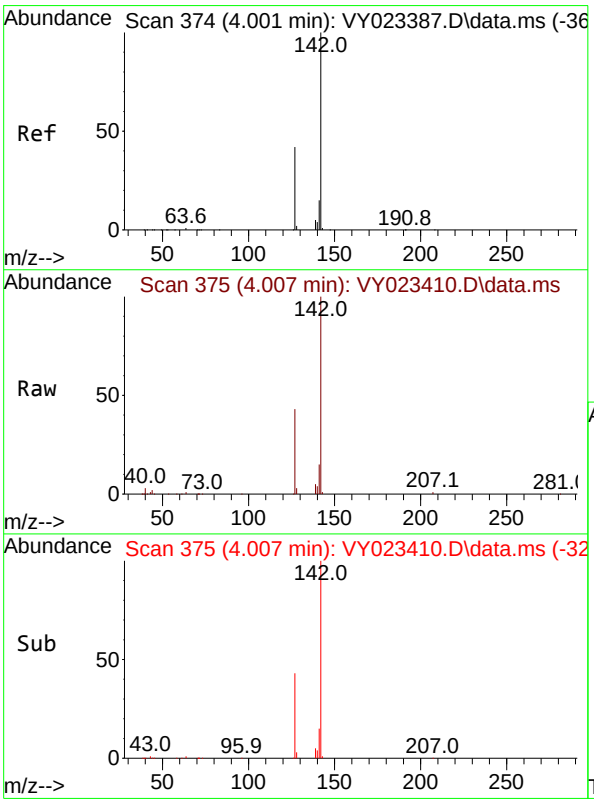
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.1 | 34.6 | 51.8 |
| 151 | 84.6 | 67.0 | 100.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

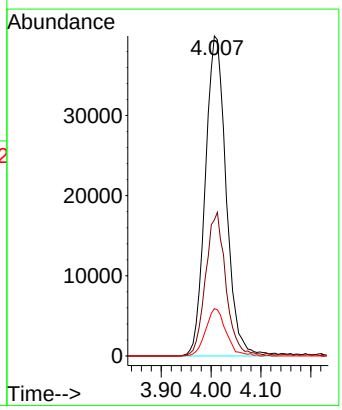


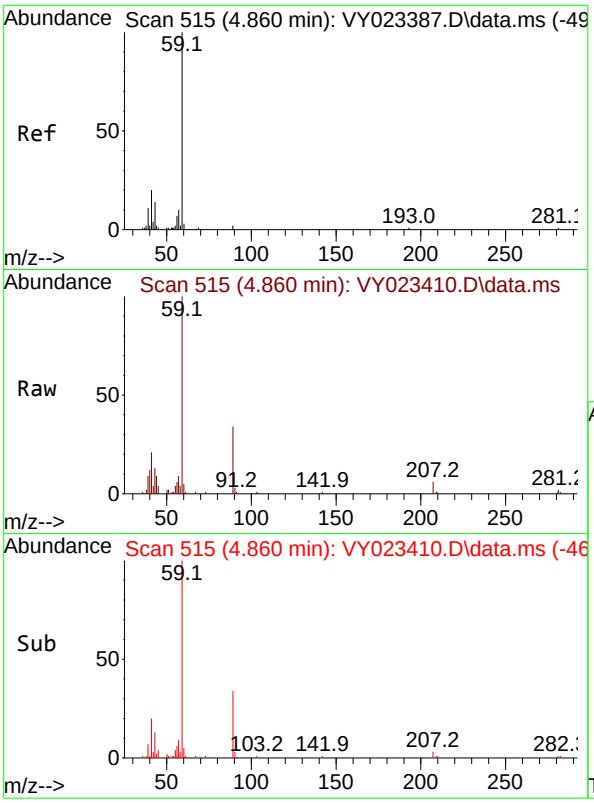




#10
Methyl Iodide
Concen: 20.670 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:142 Resp: 115949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.6 | 34.8 | 52.2 |
| 141 | 14.5 | 11.6 | 17.4 |






#11
Tert butyl alcohol
Concen: 101.402 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

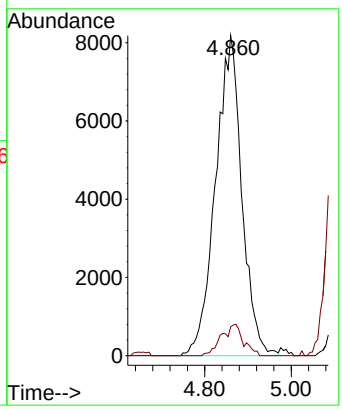
Tgt Ion: 59 Resp: 3454

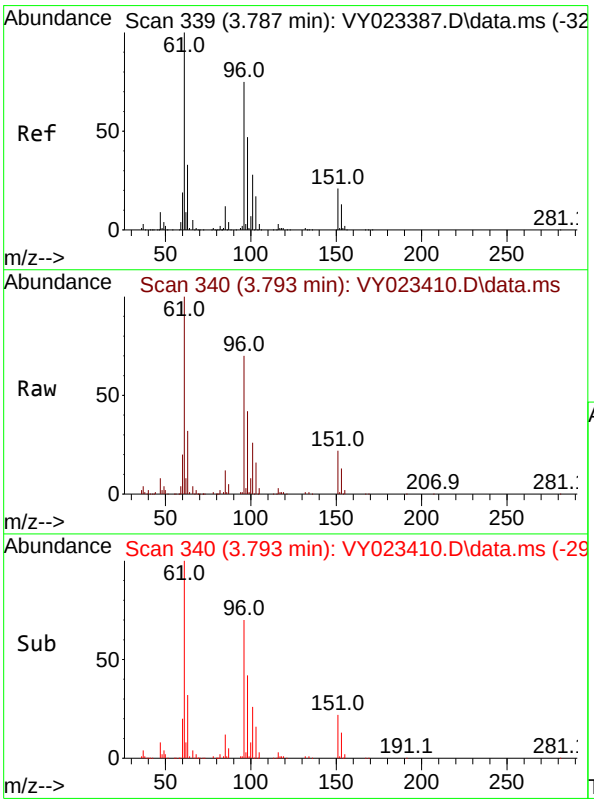
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.2 | 8.3 | 12.5# |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

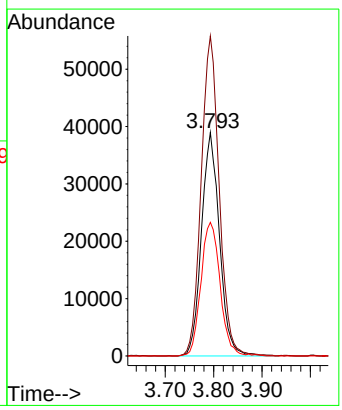


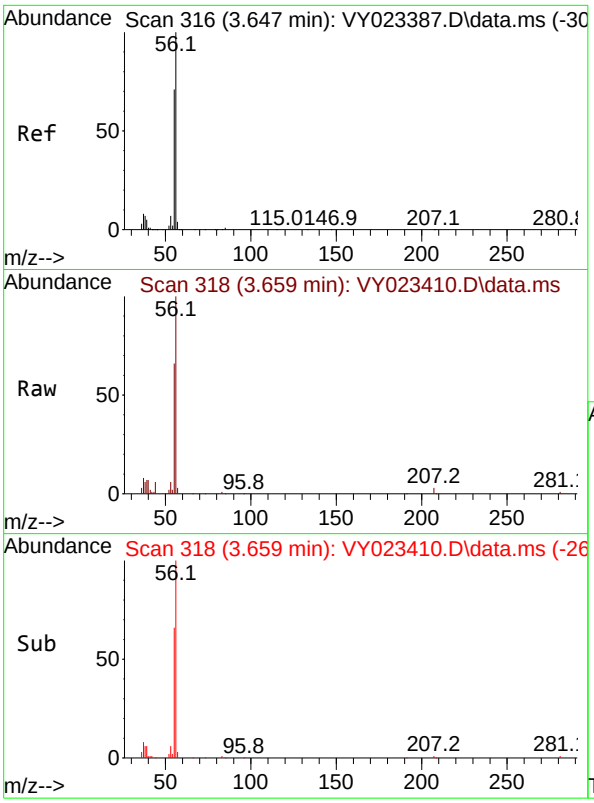




#12
1,1-Dichloroethene
Concen: 20.635 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 96 Resp: 100792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 143.2 | 106.7 | 160.1 |
| 98 | 59.8 | 50.2 | 75.4 |

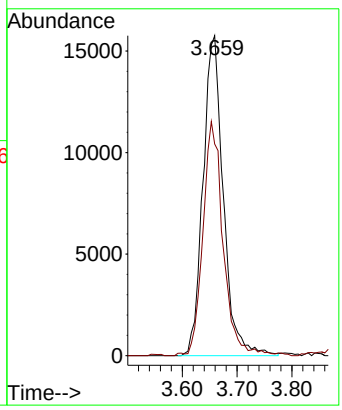





#13
Acrolein
Concen: 84.109 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 56 Resp: 4048

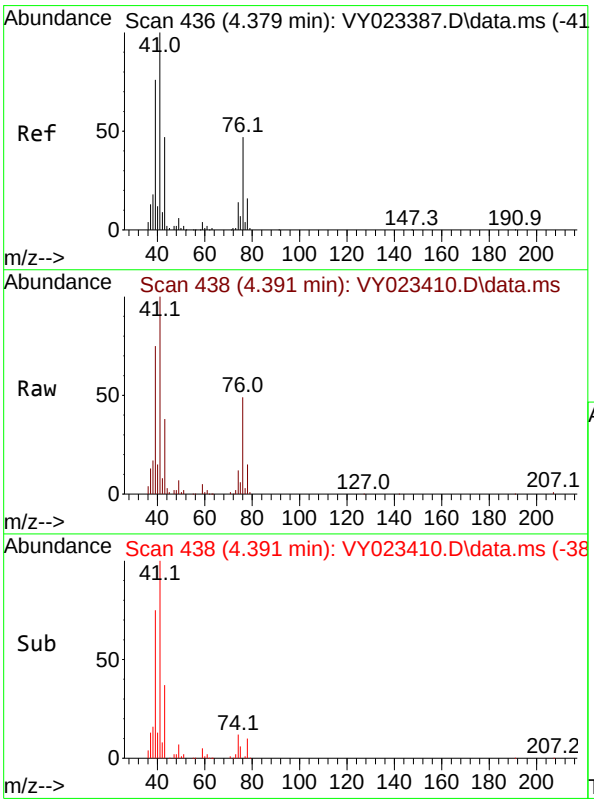
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.4 | 56.1 | 84.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

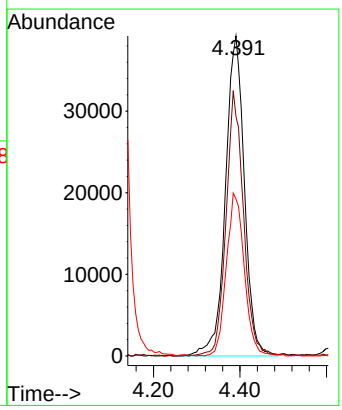
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

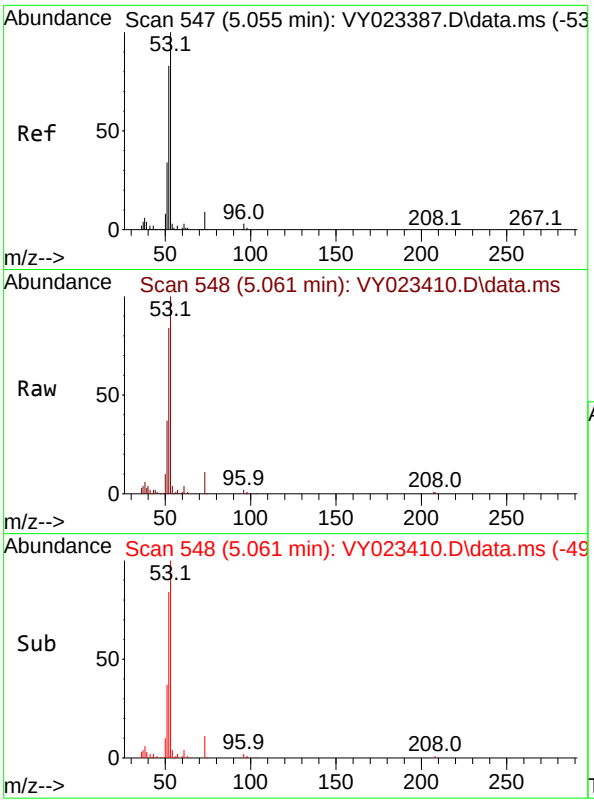



#14
Allyl chloride
Concen: 20.100 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.012 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 41 Resp: 119653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 76.2 | 59.9 | 89.9 |
| 76 | 48.3 | 38.0 | 57.0 |

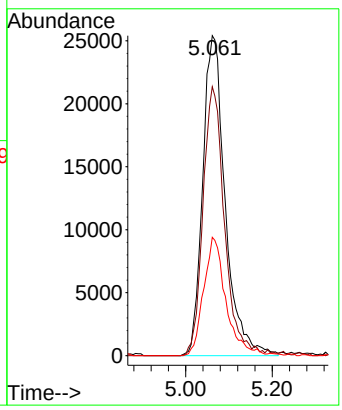





#15
Acrylonitrile
Concen: 94.402 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 53 Resp: 9166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.4 | 64.6 | 97.0 |
| 51 | 36.7 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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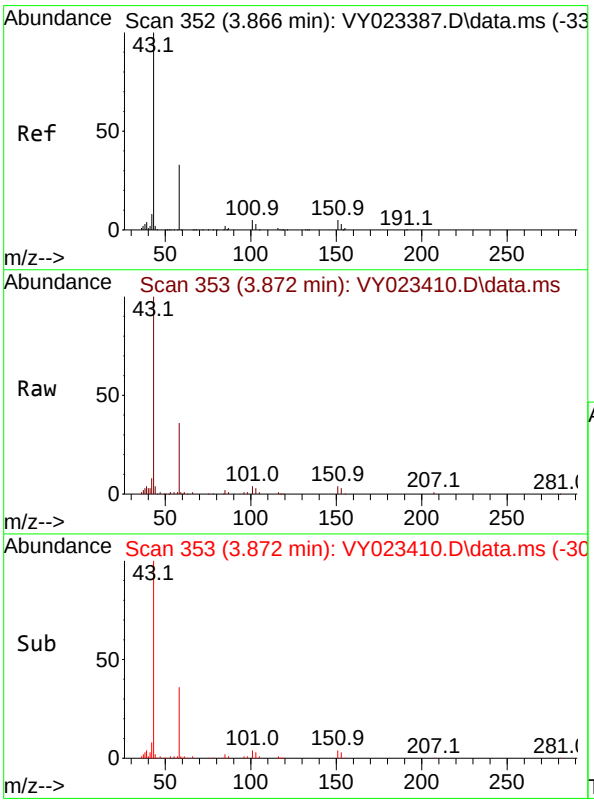
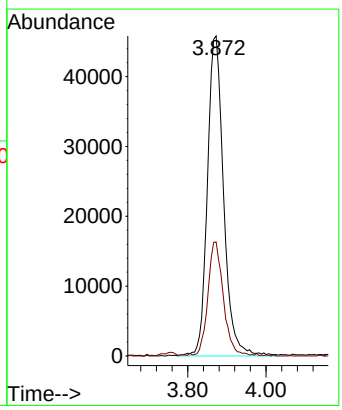
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

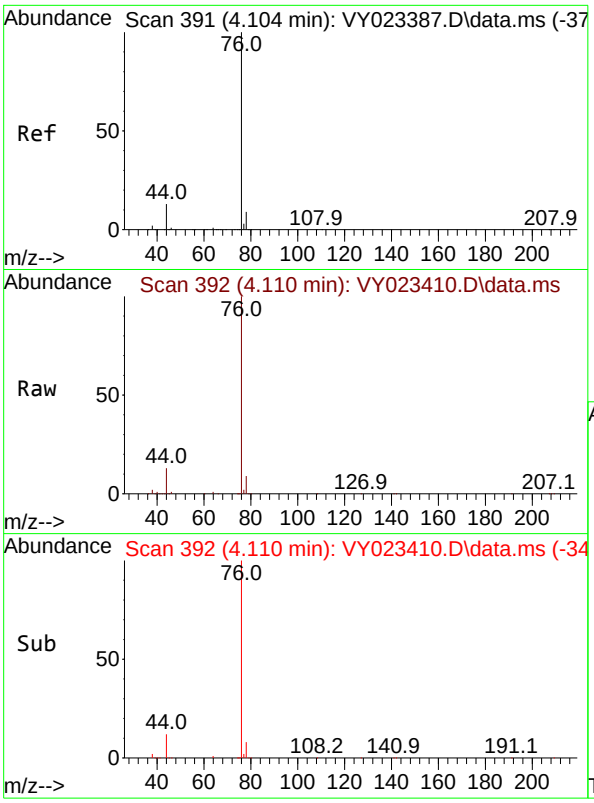



#16
Acetone
Concen: 120.460 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 43 Resp: 131313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.6 | 27.7 | 41.5 |






#17
Carbon Disulfide
Concen: 21.075 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 76 Resp: 29463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 7.3 | 10.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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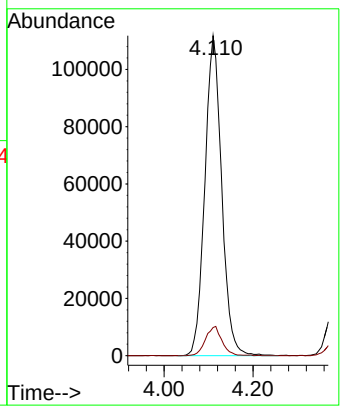
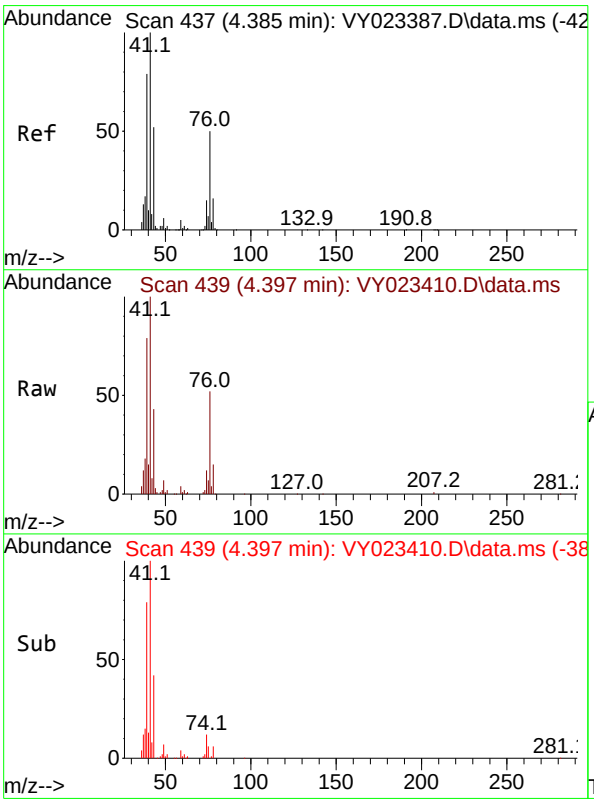
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

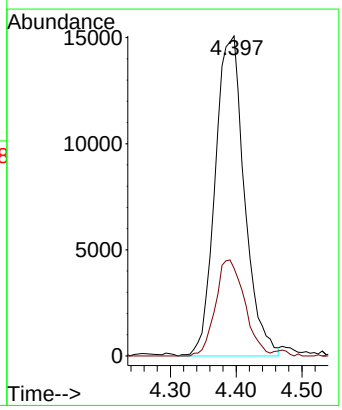


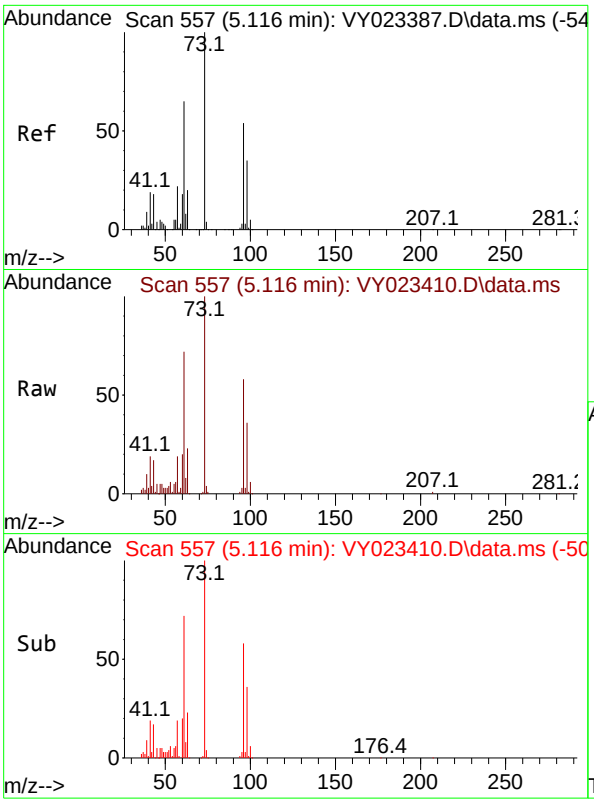




#18
Methyl Acetate
Concen: 16.344 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.012 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 43 Resp: 46736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 29.8 | 24.2 | 36.4 |

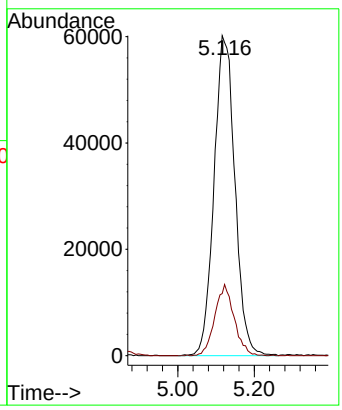





#19
Methyl tert-butyl Ether
Concen: 19.400 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 73 Resp: 22774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.4 | 17.4 | 26.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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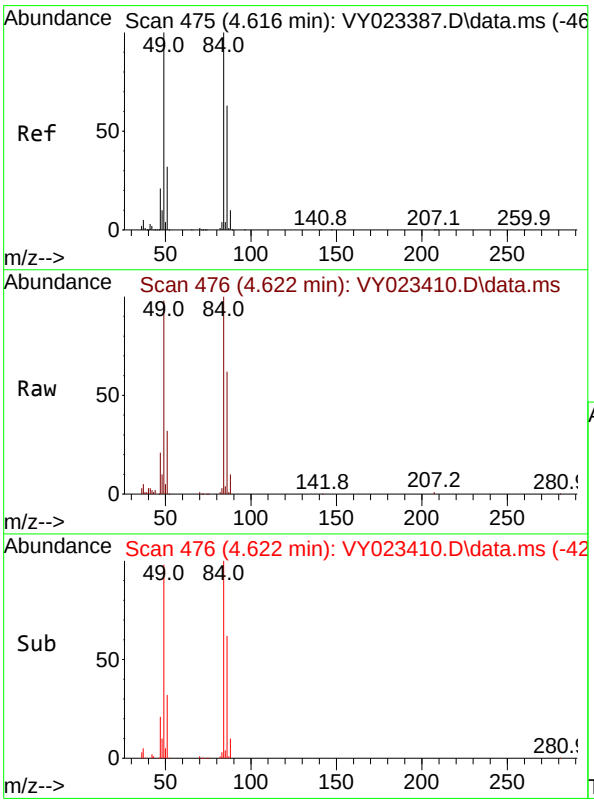
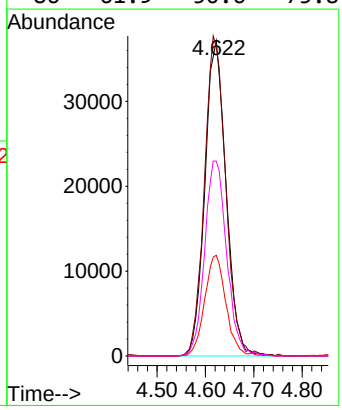
Supervised By :Semsettin Yesilyurt 10/10/2025

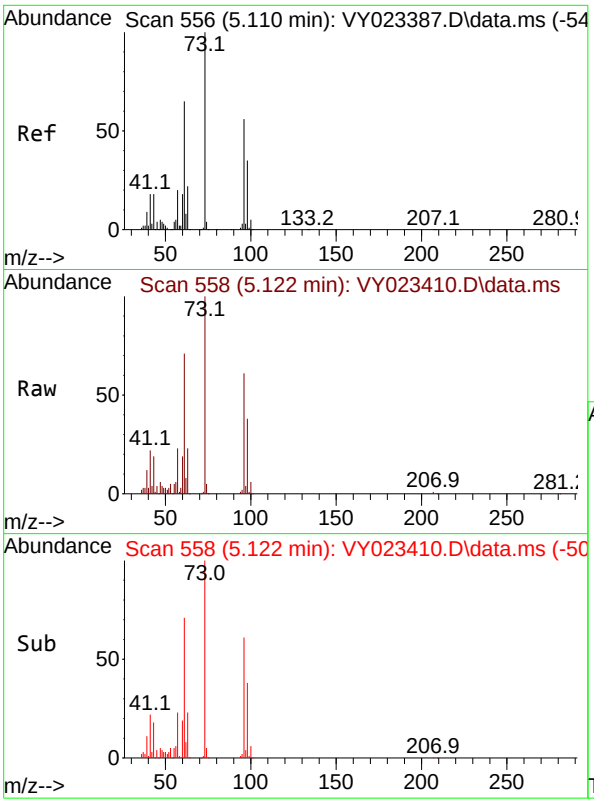



#20
Methylene Chloride
Concen: 19.216 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 84 Resp: 113269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 98.0 | 80.2 | 120.4 |
| 51 | 32.0 | 25.9 | 38.9 |
| 86 | 61.9 | 50.6 | 75.8 |

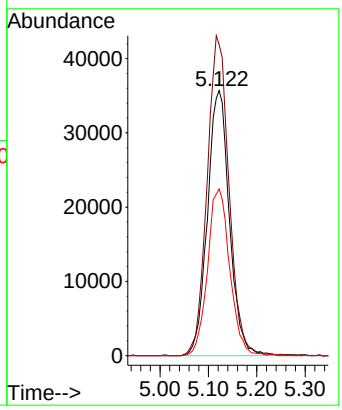





#21
trans-1,2-Dichloroethene
Concen: 21.000 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 96 Resp: 11293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 117.3 | 92.7 | 139.1 |
| 98 | 62.9 | 49.7 | 74.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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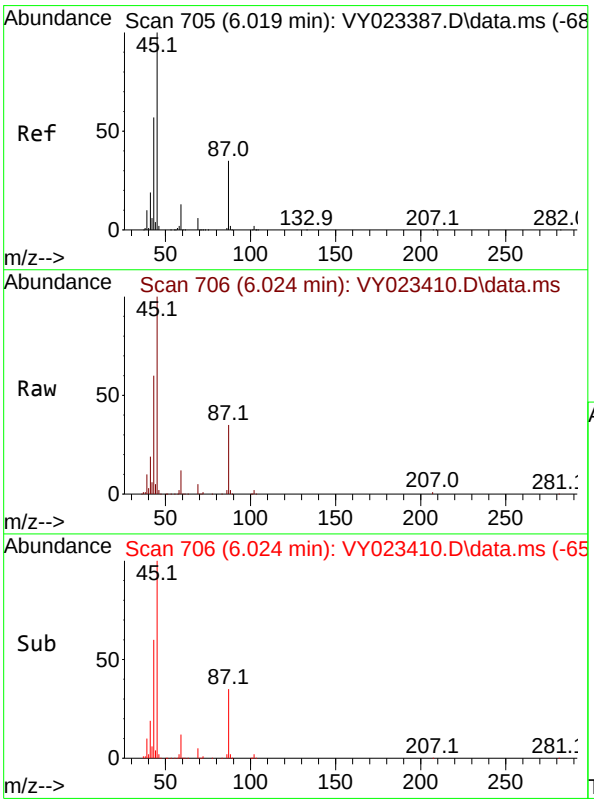
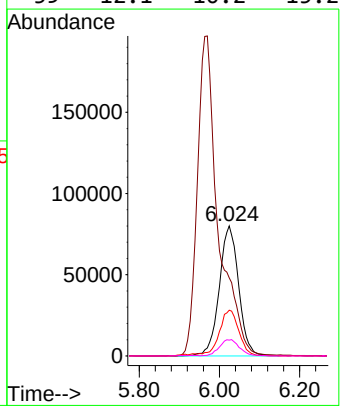
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

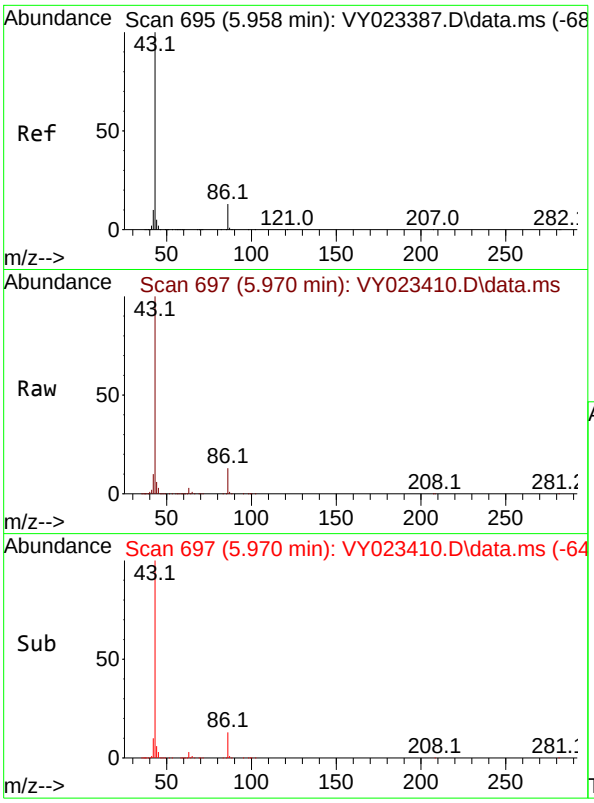



#22
Diisopropyl ether
Concen: 20.409 ug/l
RT: 6.024 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 45 Resp: 268741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.8 | 45.6 | 68.4 |
| 87 | 35.0 | 28.1 | 42.1 |
| 59 | 12.1 | 10.2 | 15.2 |

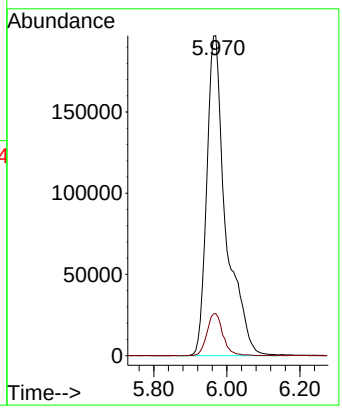





#23
Vinyl Acetate
Concen: 100.236 ug/l
RT: 5.970 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 43 Resp: 71440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 13.1 | 10.6 | 15.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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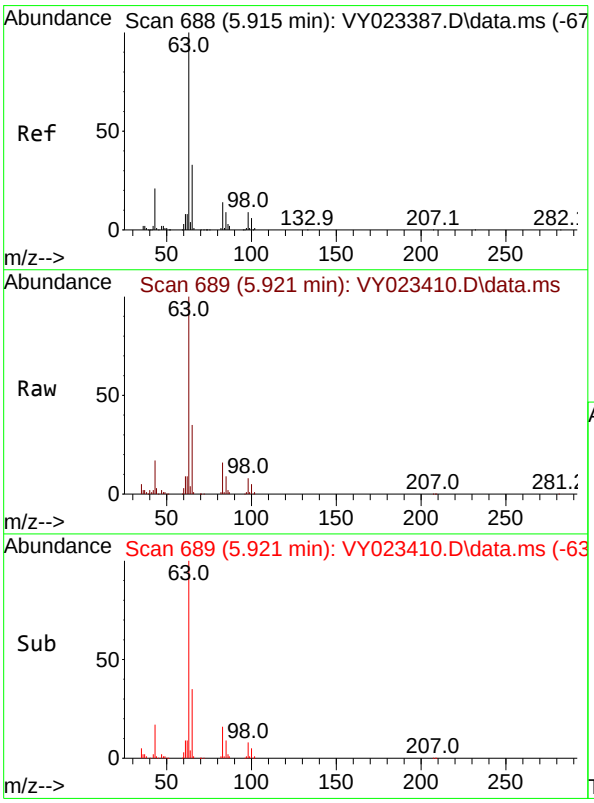
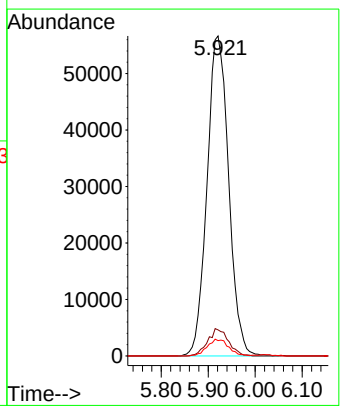
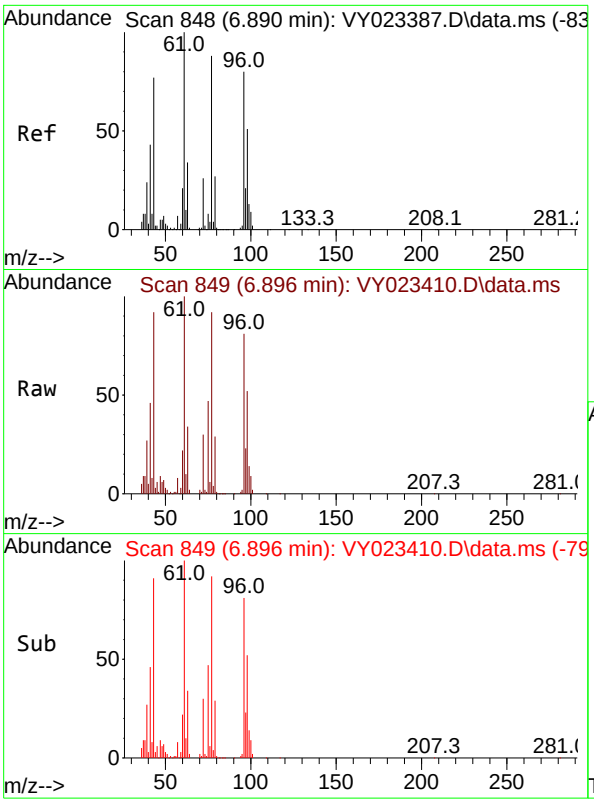



#24
1,1-Dichloroethane
Concen: 20.782 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 63 Resp: 181268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.1 | 4.3 | 13.1 |
| 100 | 4.8 | 2.8 | 8.4 |






#25
2-Butanone
Concen: 106.969 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 43 Resp: 14235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 32.9 | 27.4 | 41.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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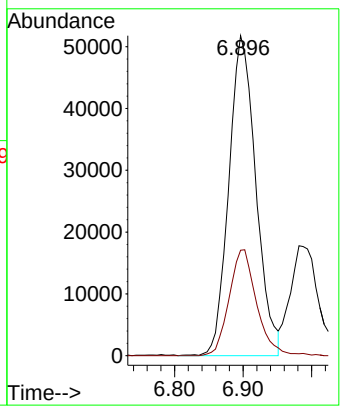
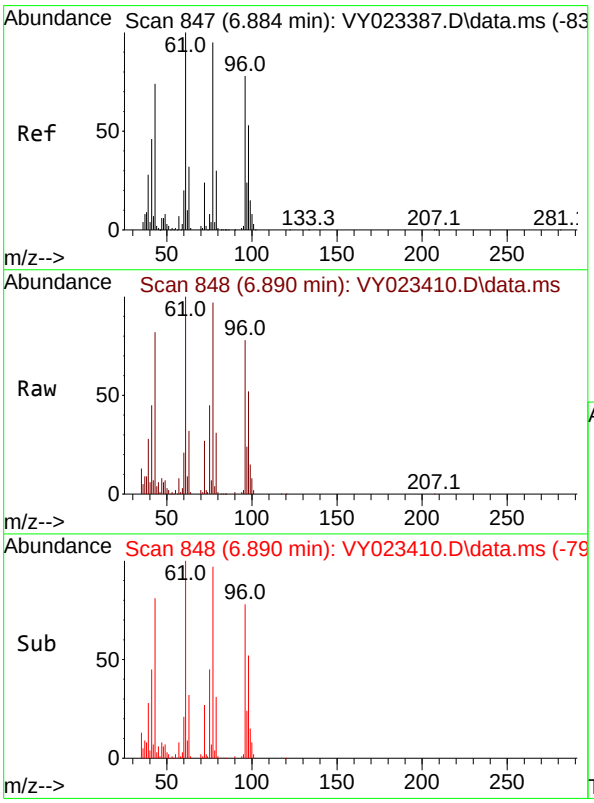
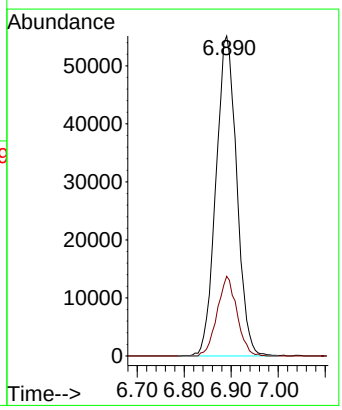


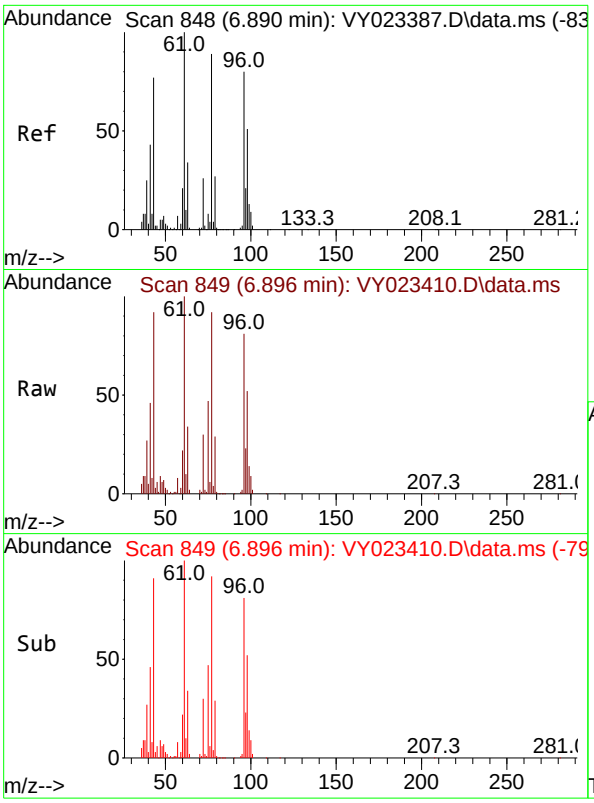




#26
2,2-Dichloropropane
Concen: 21.181 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 77 Resp: 169519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.7 | 12.1 | 36.3 |






#27
cis-1,2-Dichloroethene
Concen: 20.757 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 96 Resp: 12894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 127.9 | 0.0 | 258.2 |
| 98 | 62.8 | 0.0 | 132.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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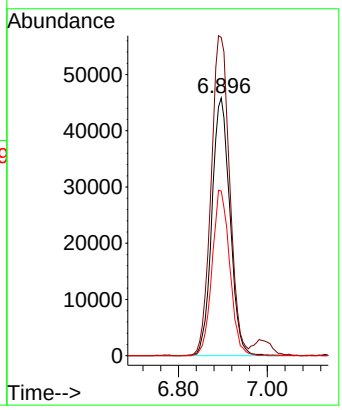
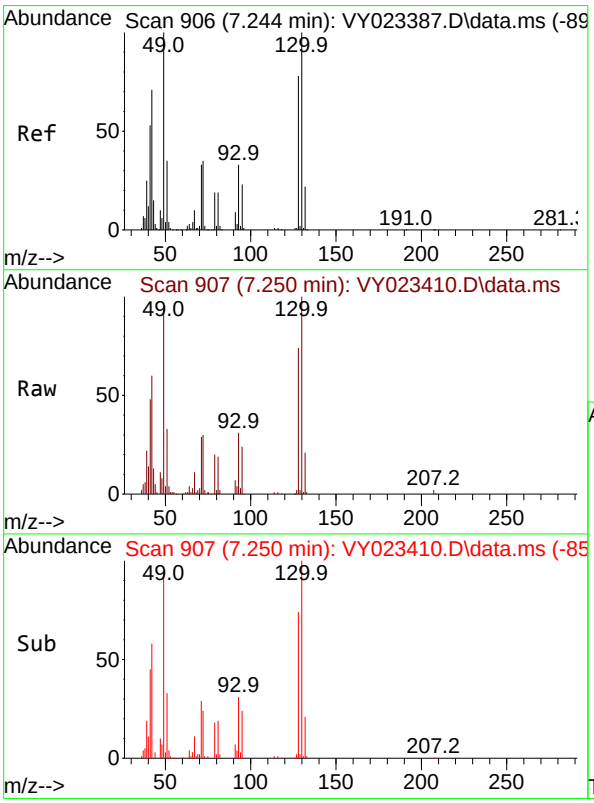
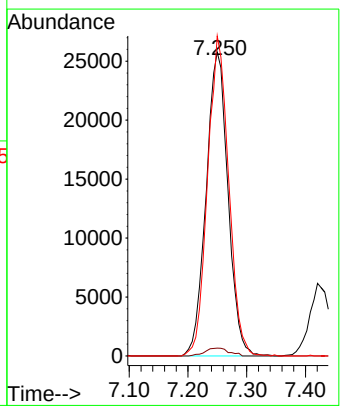


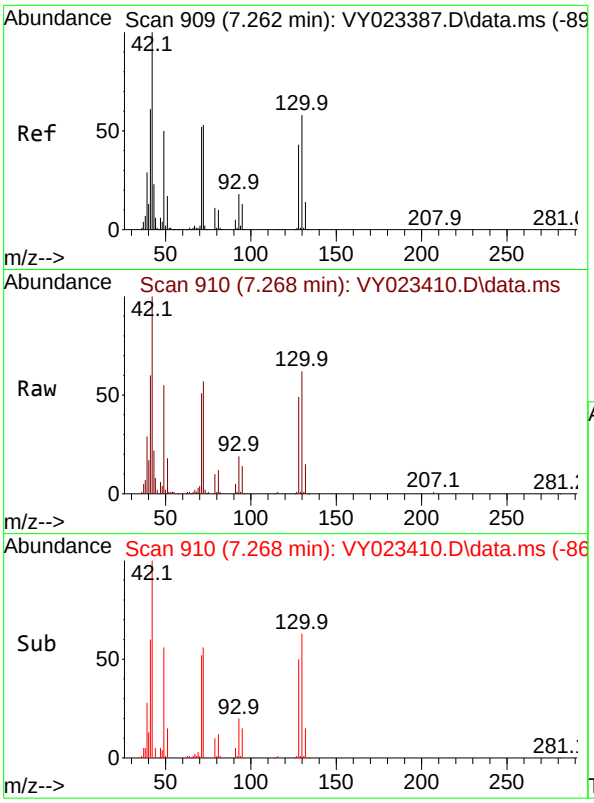




#28
Bromochloromethane
Concen: 20.480 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 49 Resp: 66685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.8 | 0.0 | 5.6 |
| 130 | 101.2 | 81.9 | 122.9 |






#29
Tetrahydrofuran
Concen: 93.296 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

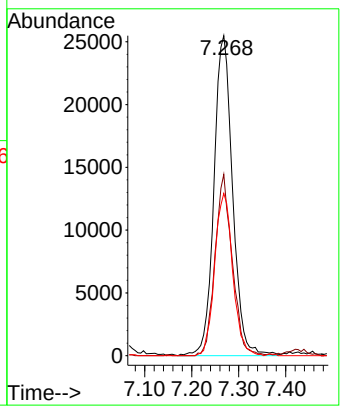
Tgt Ion: 42 Resp: 7040

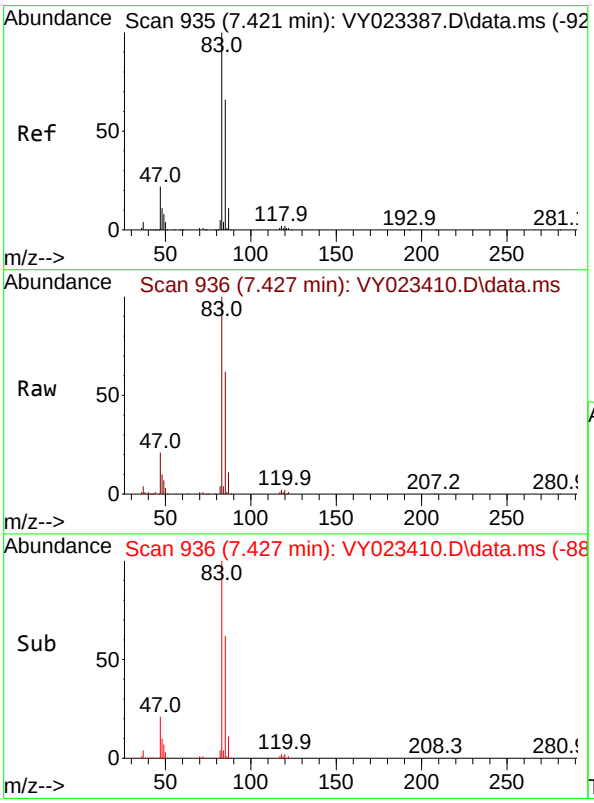
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 52.3 | 43.0 | 64.6 |
| 71 | 49.1 | 40.1 | 60.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

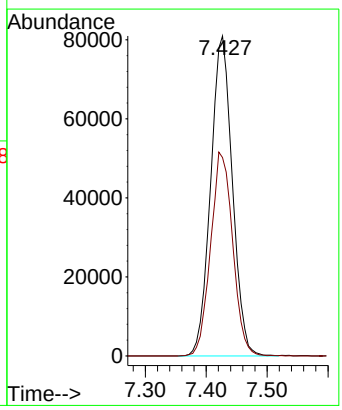


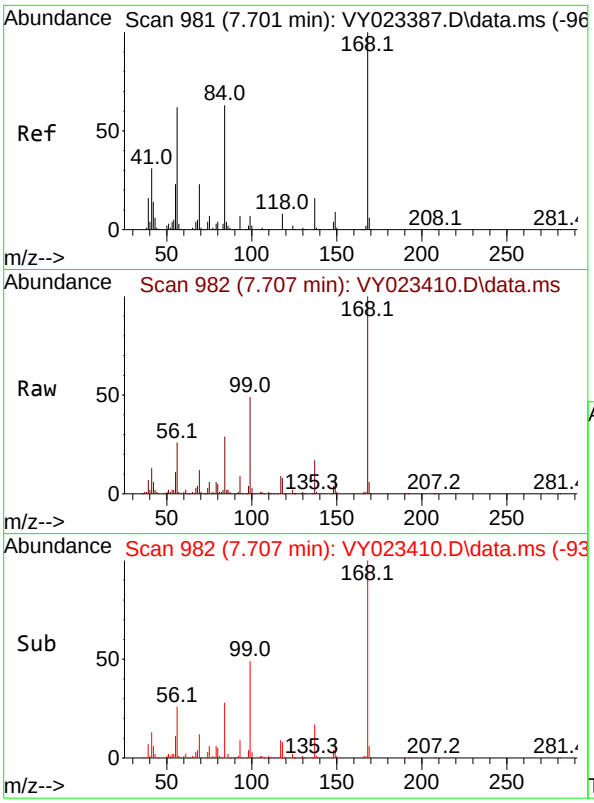




#30
Chloroform
Concen: 20.913 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 83 Resp: 200410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.0 | 52.5 | 78.7 |






#31
Cyclohexane
Concen: 20.227 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

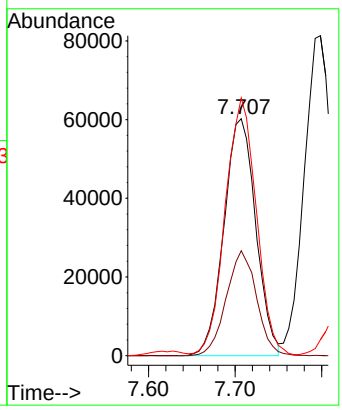
Tgt Ion: 56 Resp: 15406

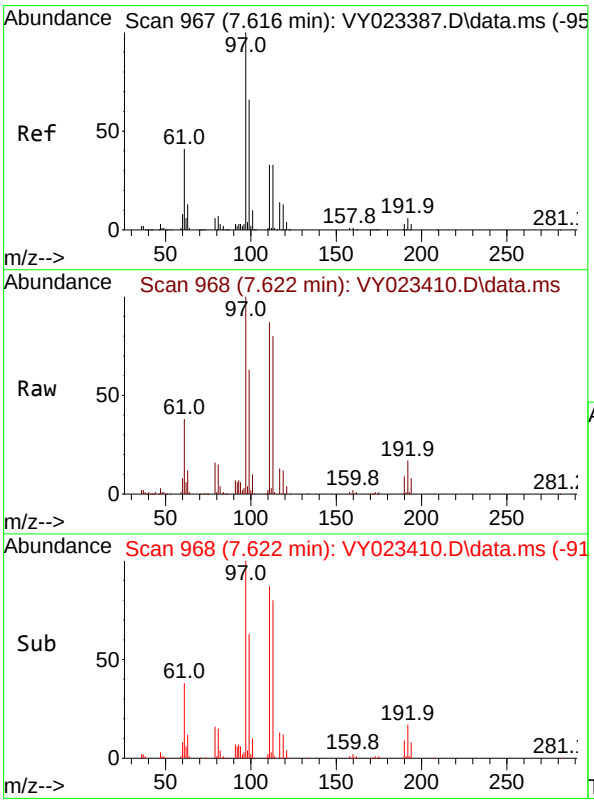
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 44.3 | 30.0 | 45.0 |
| 84 | 107.2 | 81.2 | 121.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

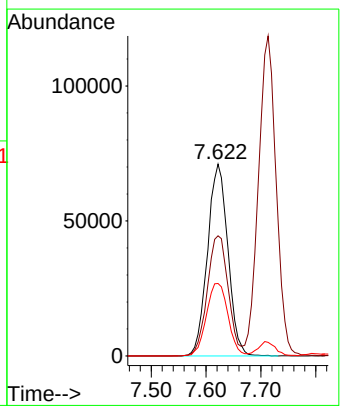


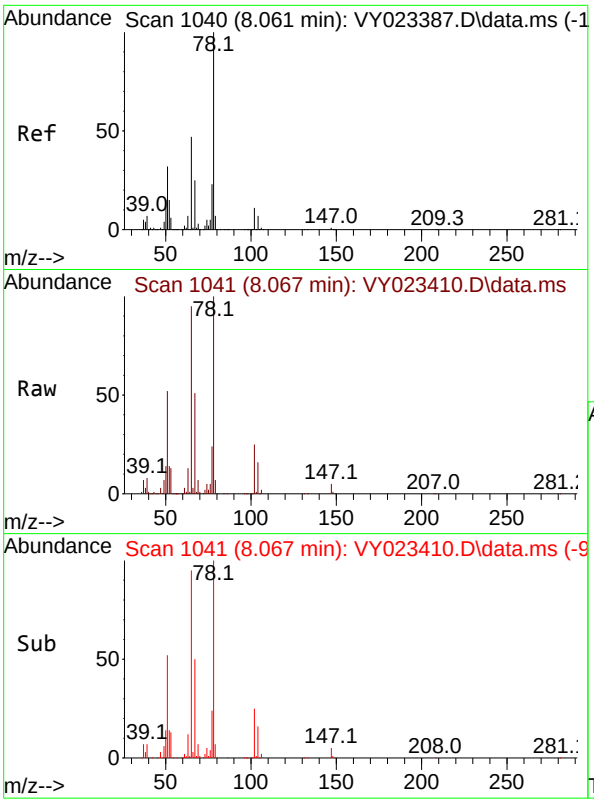




#32
1,1,1-Trichloroethane
Concen: 21.045 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 97 Resp: 183274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.4 | 51.4 | 77.2 |
| 61 | 40.2 | 31.9 | 47.9 |






#33
1,2-Dichloroethane-d4
Concen: 47.162 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

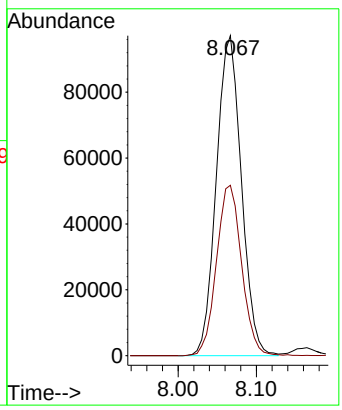
Tgt Ion: 65 Resp: 21595

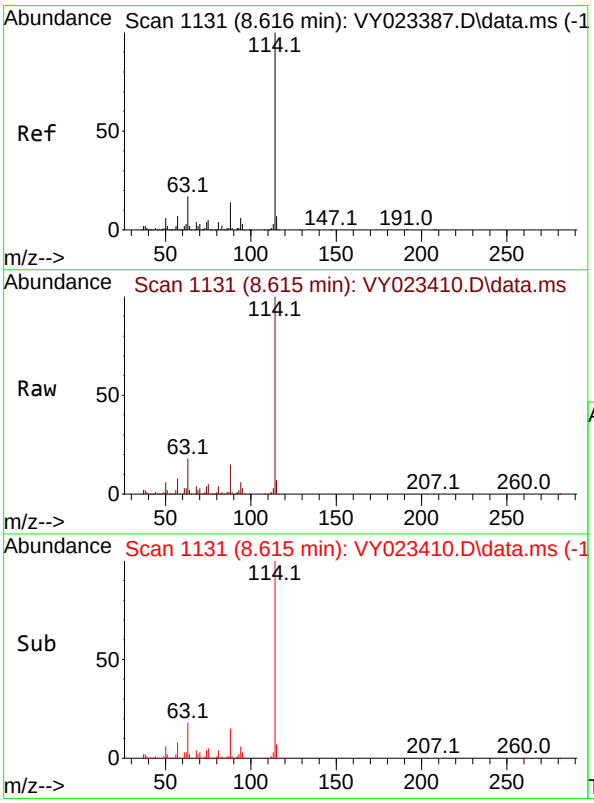
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.6 | 0.0 | 105.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

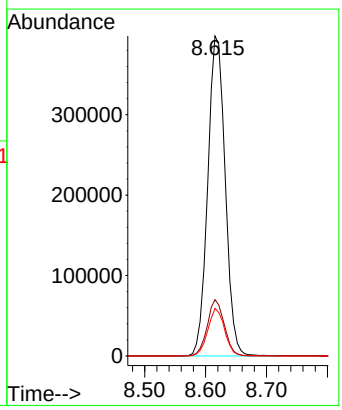


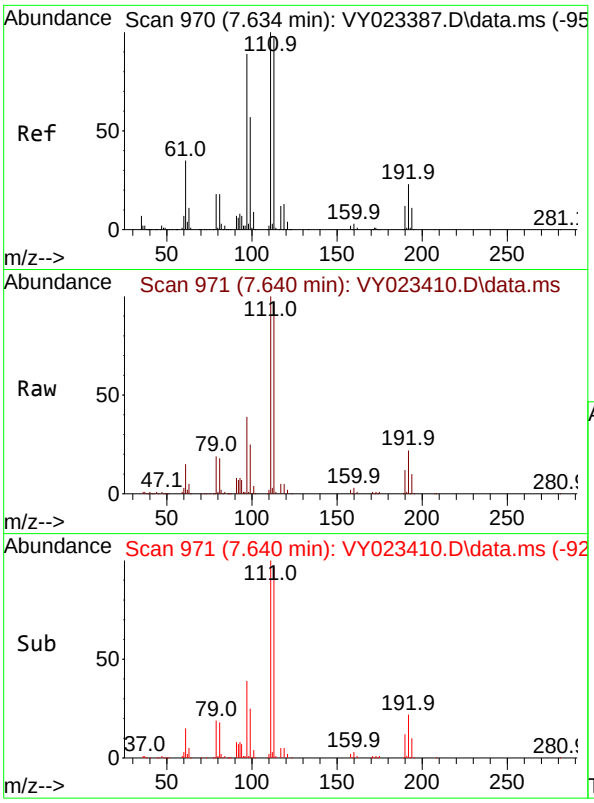




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:114 Resp: 791873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.6 | 0.0 | 34.2 |
| 88 | 14.9 | 0.0 | 28.4 |






#35
Dibromofluoromethane
Concen: 49.499 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

Tgt Ion:113 Resp: 24084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.6 | 81.8 | 122.6 |
| 192 | 22.3 | 18.0 | 27.0 |

**Manual Integrations**
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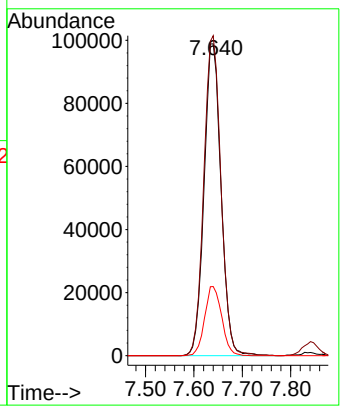
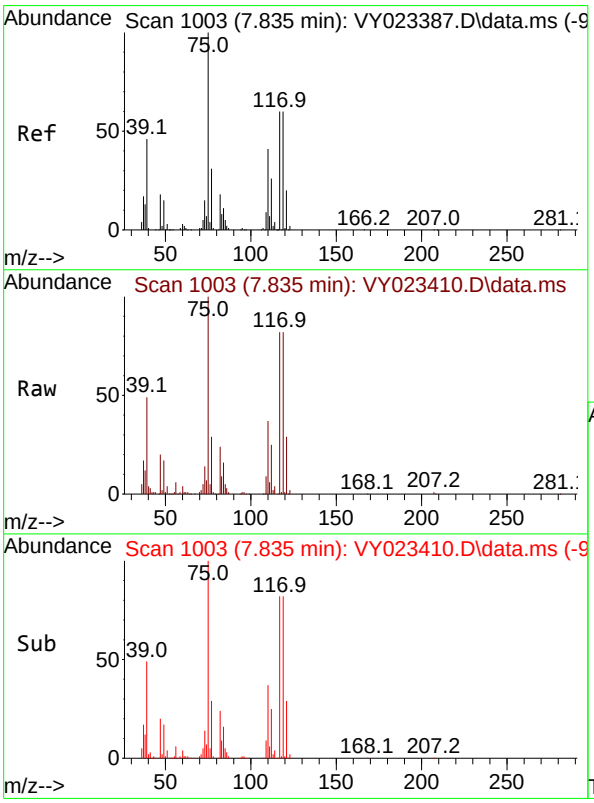
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

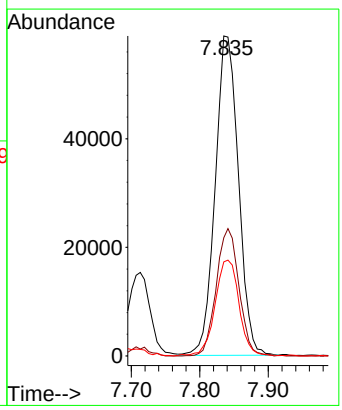


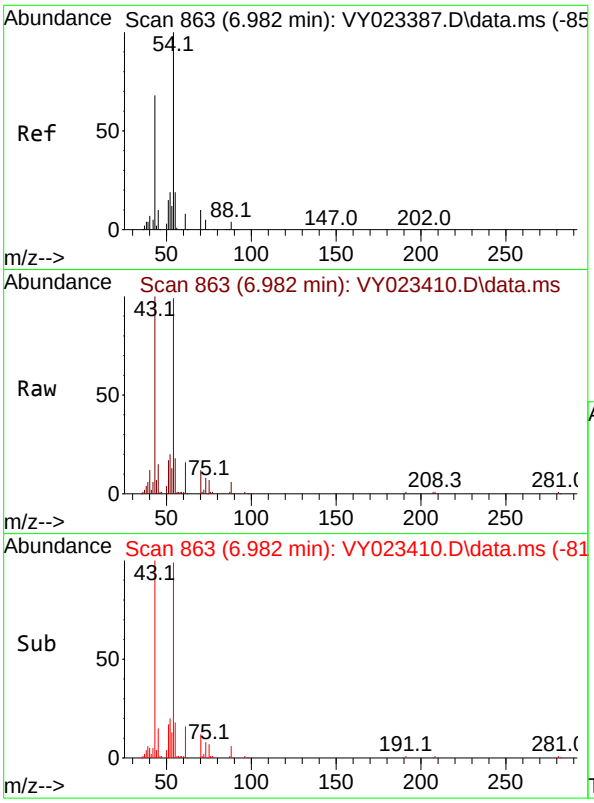




#36
1,1-Dichloropropene
Concen: 21.519 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 75 Resp: 138615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 38.9 | 19.9 | 59.7 |
| 77 | 31.1 | 25.0 | 37.6 |

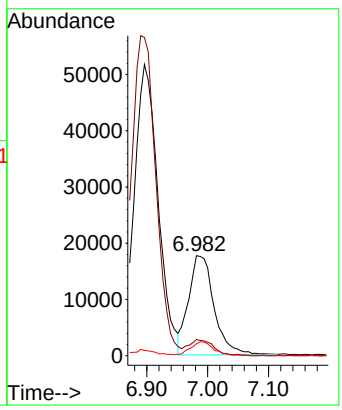





#37
Ethyl Acetate
Concen: 20.170 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 43 Resp: 5147

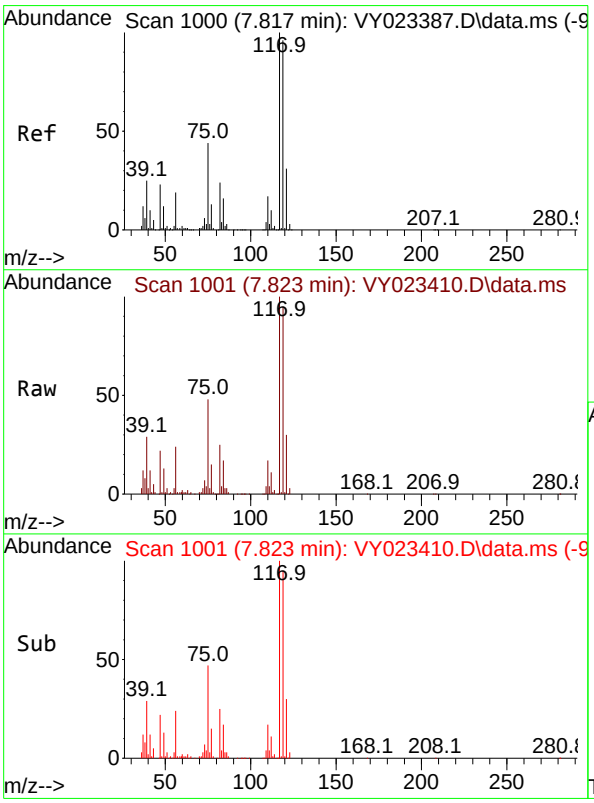
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.9 | 11.8 | 17.8 |
| 70 | 12.8 | 10.5 | 15.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

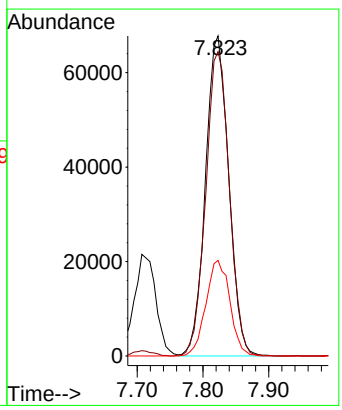
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

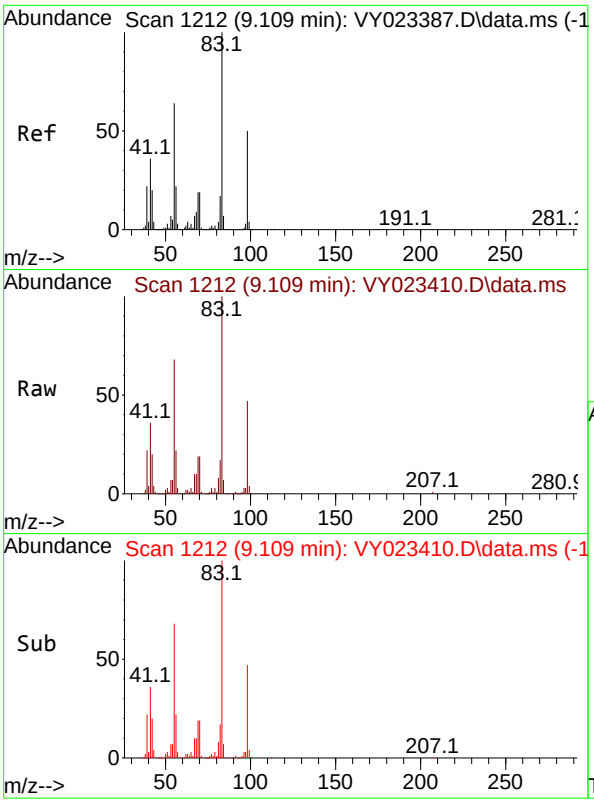



#38
Carbon Tetrachloride
Concen: 21.377 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:117 Resp: 166972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.1 | 76.8 | 115.2 |
| 121 | 29.9 | 24.5 | 36.7 |






#39
Methylcyclohexane
Concen: 21.120 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

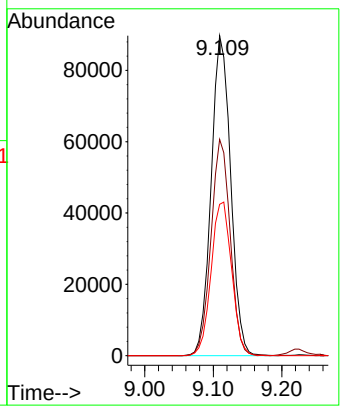
Tgt Ion: 83 Resp: 17713

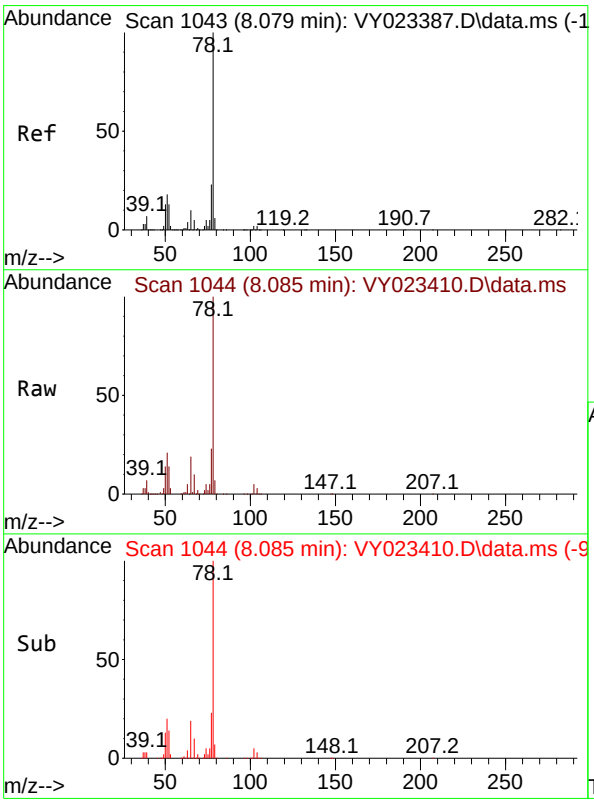
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 67.6 | 51.4 | 77.2 |
| 98 | 47.3 | 40.4 | 60.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

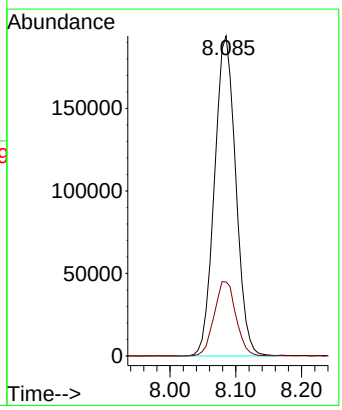


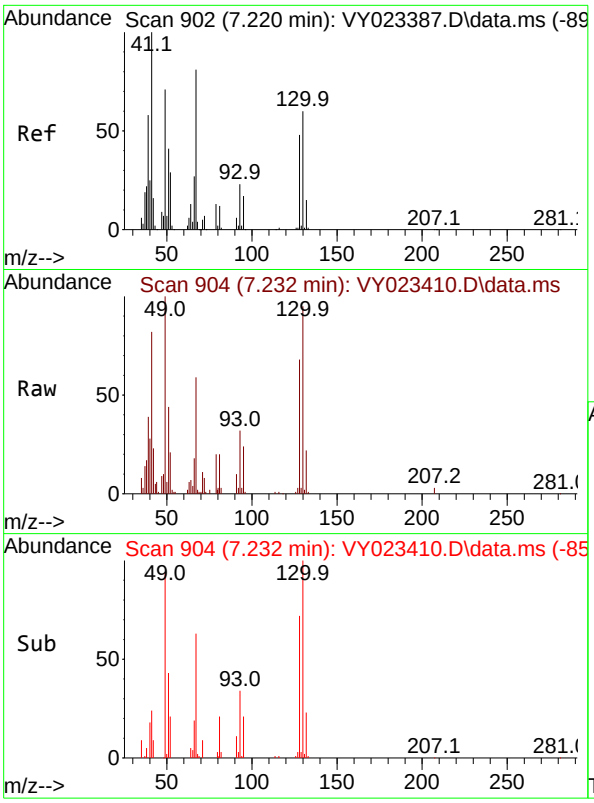




#40
Benzene
Concen: 21.393 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 78 Resp: 436426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.1 | 18.3 | 27.5 |

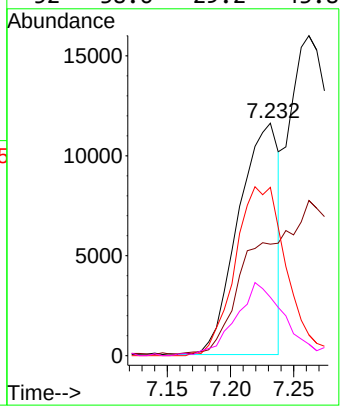





#41
Methacrylonitrile
Concen: 18.598 ug/l
RT: 7.232 min Scan# 9(
Delta R.T. 0.012 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 41 Resp: 2567(

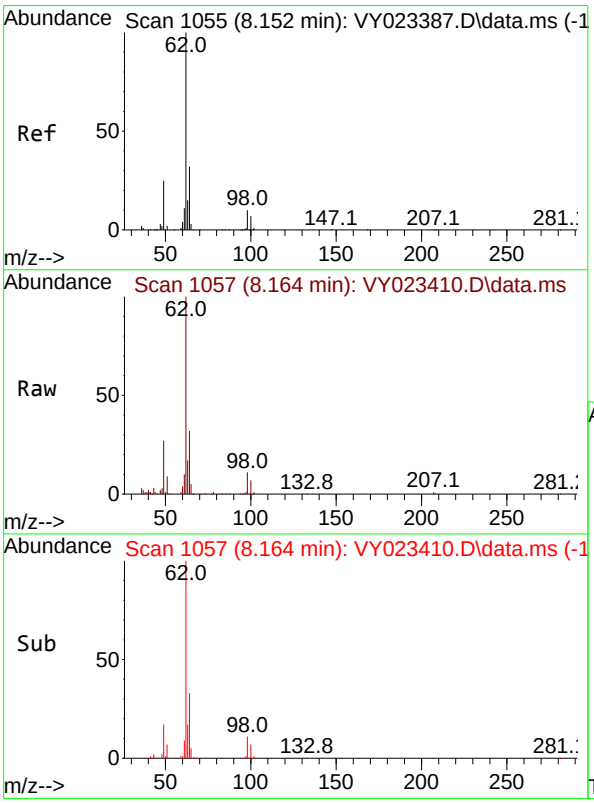
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 0.0 | 52.2 | 78.4 |
| 67 | 93.0 | 74.9 | 112.3 |
| 52 | 38.6 | 29.2 | 43.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

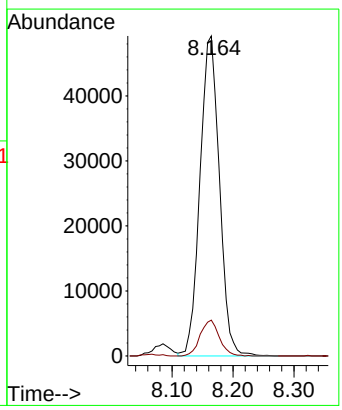
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

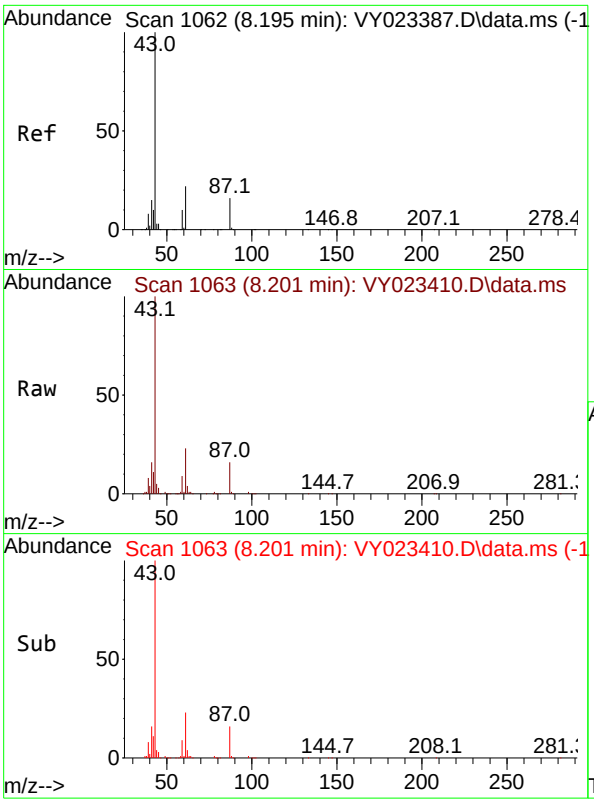



#42
1,2-Dichloroethane
Concen: 20.726 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.012 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 62 Resp: 109045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 11.0 | 0.0 | 21.6 |






#43
Isopropyl Acetate
Concen: 19.165 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 43 Resp: 9752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 34.7 | 18.1 | 27.1 |
| 87 | 16.6 | 13.5 | 20.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
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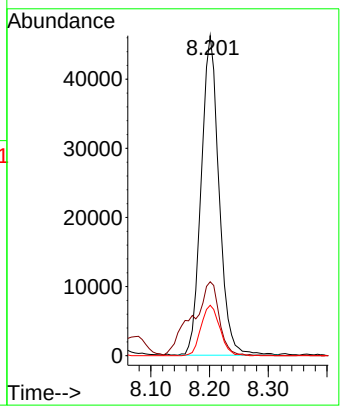
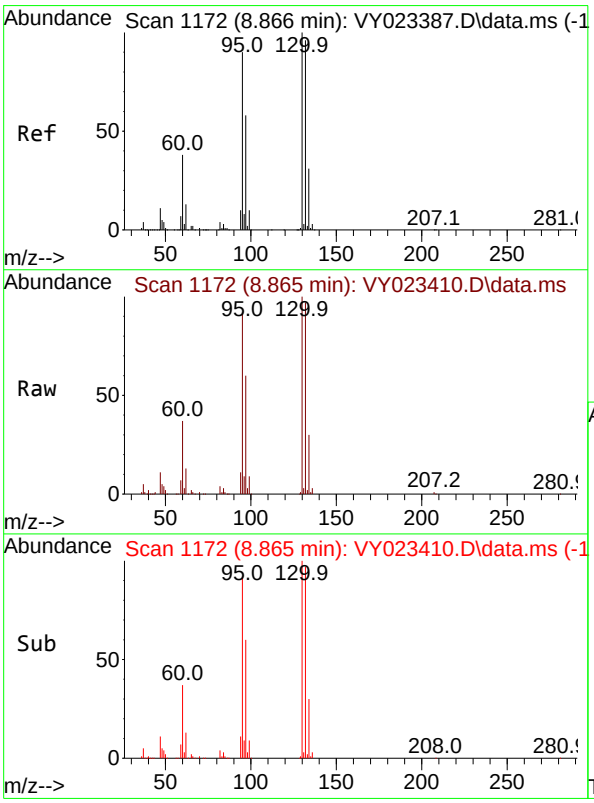
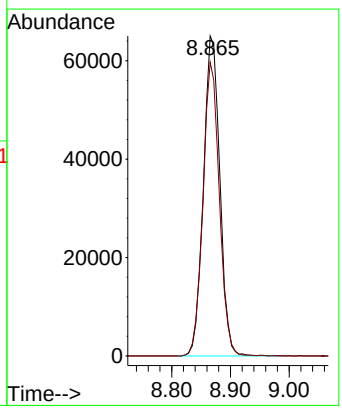


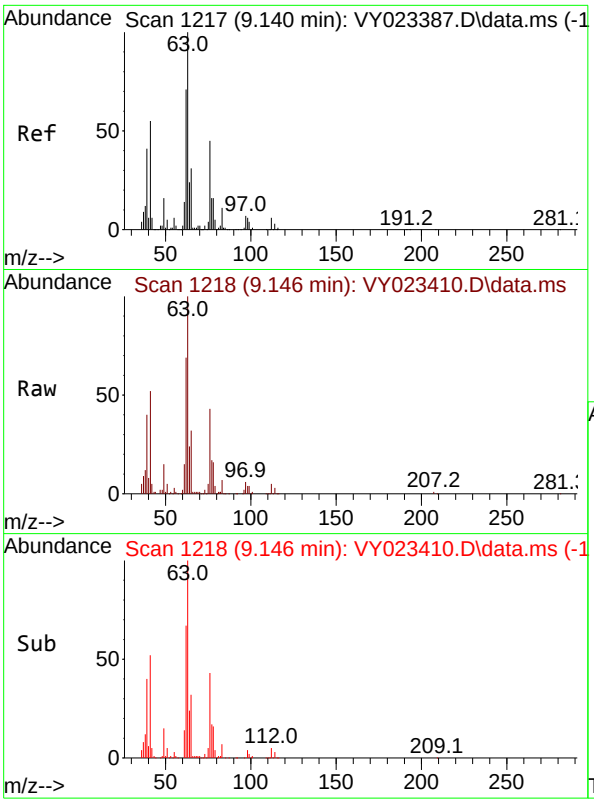




#44
Trichloroethene
Concen: 21.103 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:130 Resp: 126004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 91.8 | 0.0 | 180.6 |






#45
1,2-Dichloropropane
Concen: 21.294 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 63 Resp: 9595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.1 | 24.9 | 37.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

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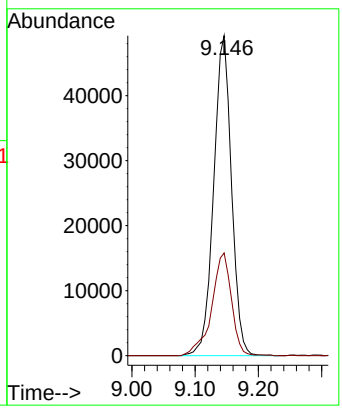
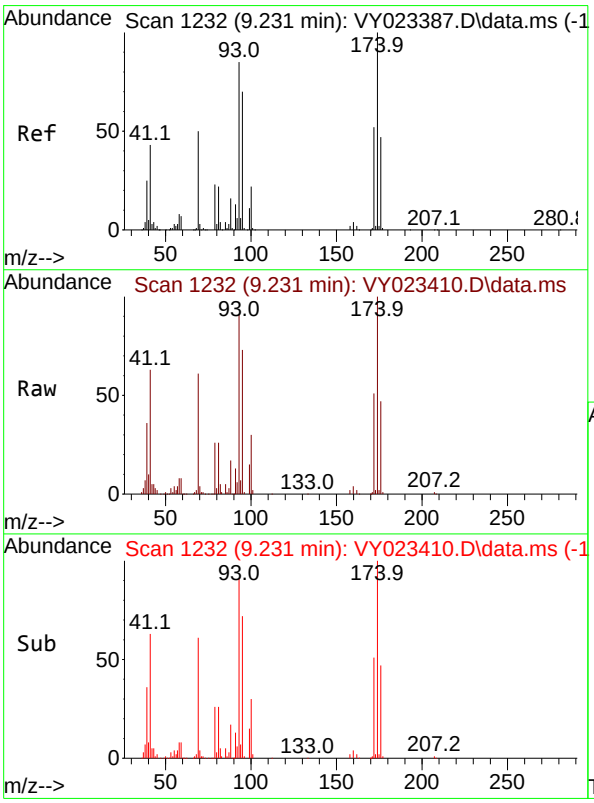
Supervised By :Semsettin Yesilyurt 10/10/2025

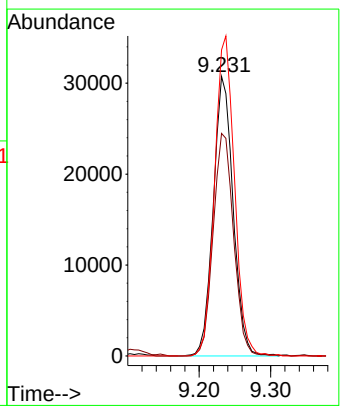


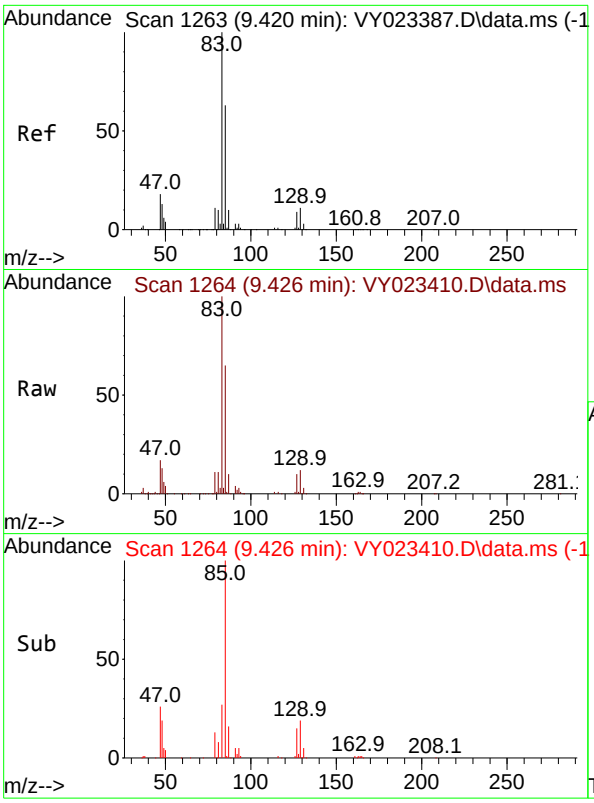




#46
Dibromomethane
Concen: 20.831 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 93 Resp: 59353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.9 | 65.4 | 98.0 |
| 174 | 114.6 | 92.9 | 139.3 |

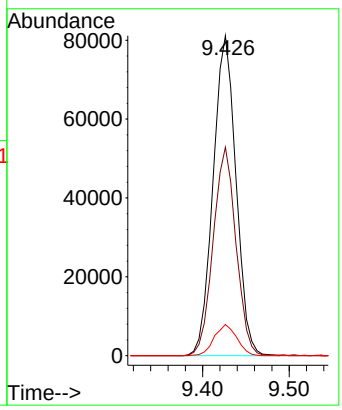





#47
Bromodichloromethane
Concen: 20.758 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 83 Resp: 14895

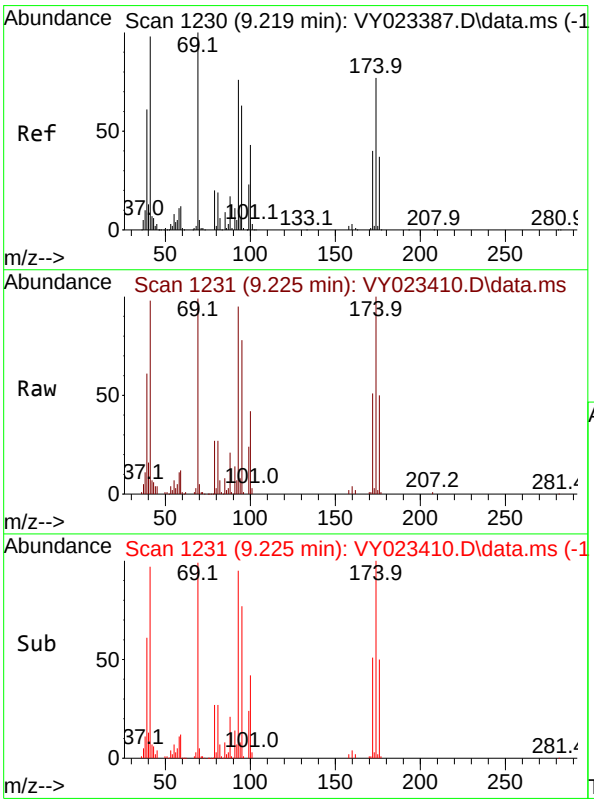
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.2 | 50.8 | 76.2 |
| 127 | 9.8 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

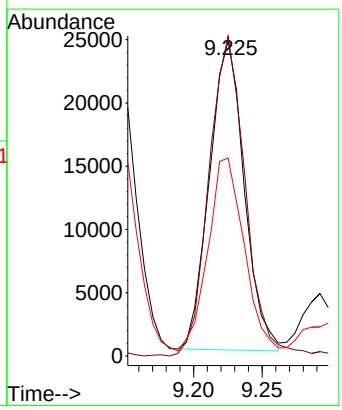
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

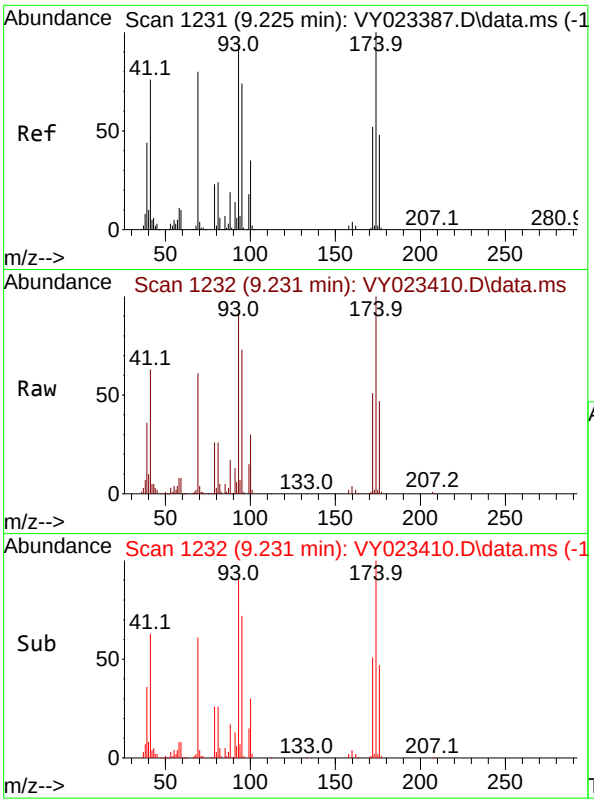



#48
Methyl methacrylate
Concen: 18.024 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 41 Resp: 43089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 109.1 | 81.0 | 121.4 |
| 39 | 65.0 | 48.2 | 72.4 |






#49
1,4-Dioxane
Concen: 376.544 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 88 Resp: 1243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.8 | 21.8 | 32.8 |
| 58 | 56.2 | 46.8 | 70.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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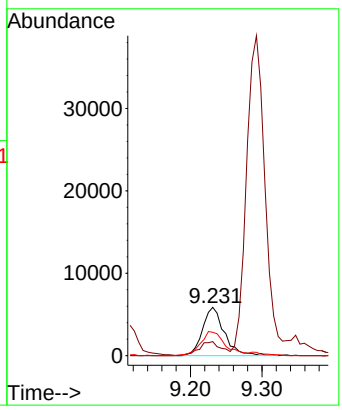
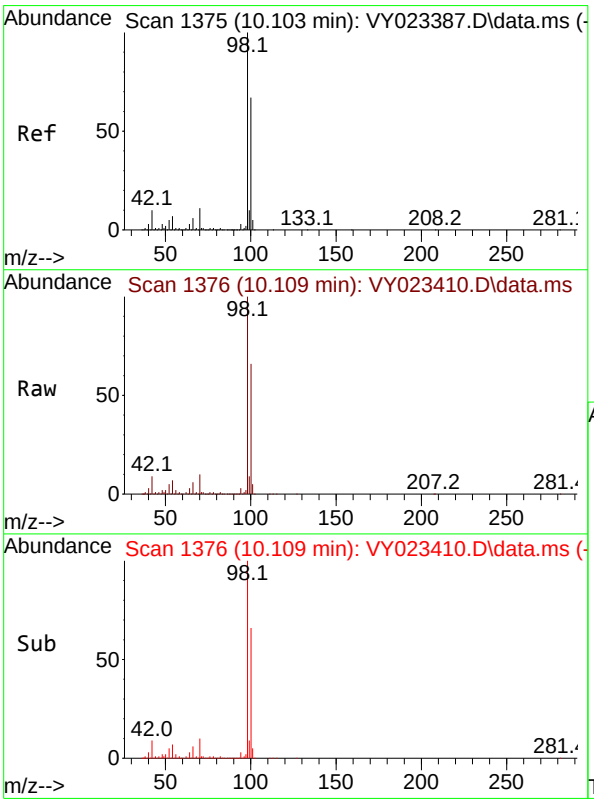
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

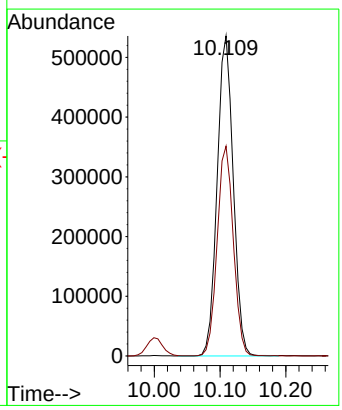


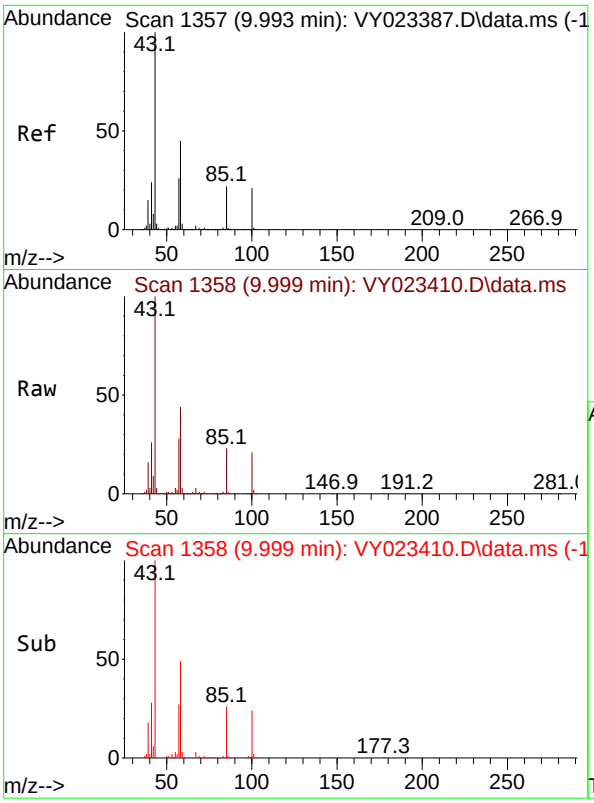




#50
Toluene-d8
Concen: 50.348 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 98 Resp: 912325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.7 | 53.0 | 79.4 |






#51
4-Methyl-2-Pentanone
Concen: 94.838 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 43 Resp: 24934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.8 | 35.3 | 52.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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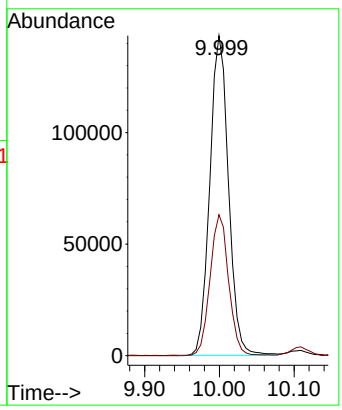
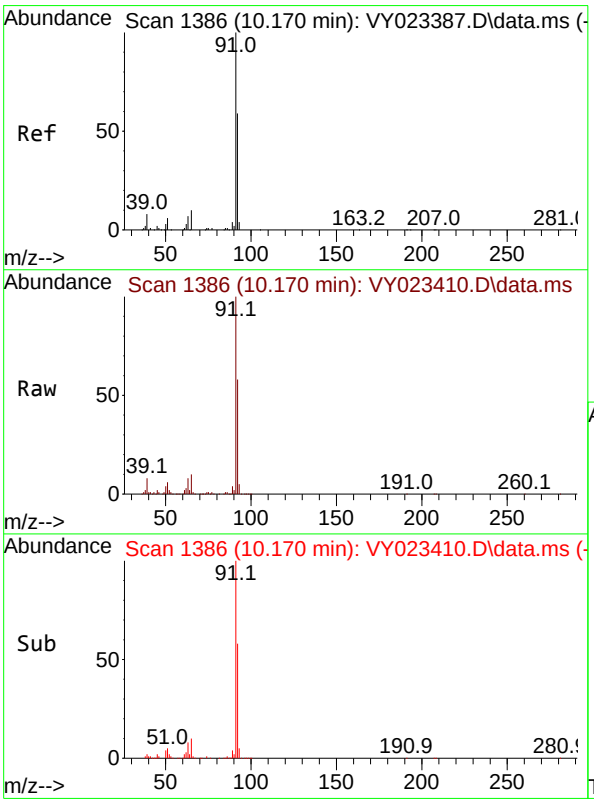
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

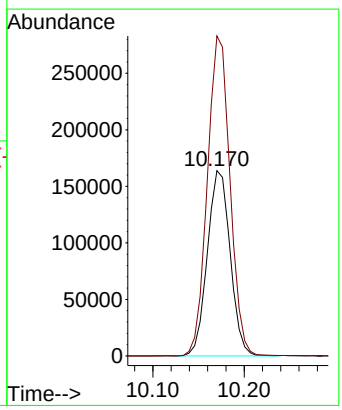


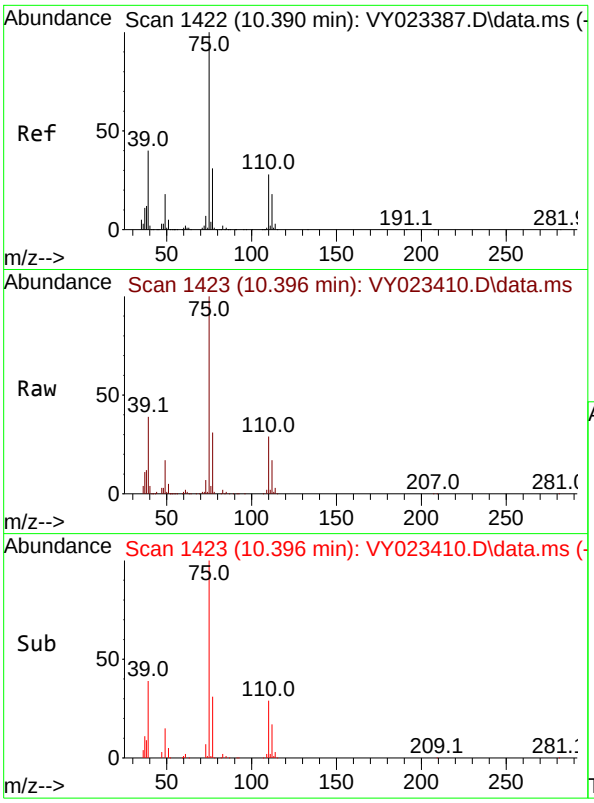




#52
Toluene
Concen: 21.449 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 92 Resp: 284102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.7 | 136.4 | 204.6 |






#53
t-1,3-Dichloropropene
Concen: 19.898 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 75 Resp: 12415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.9 | 25.1 | 37.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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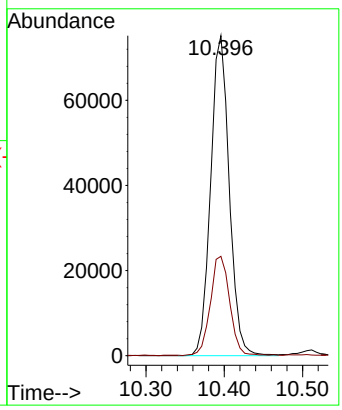
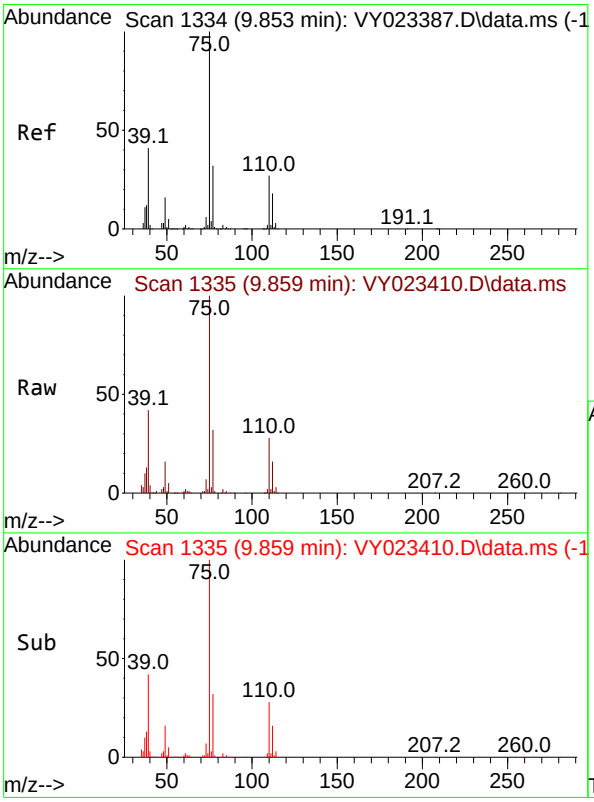
Supervised By :Semsettin Yesilyurt 10/10/2025

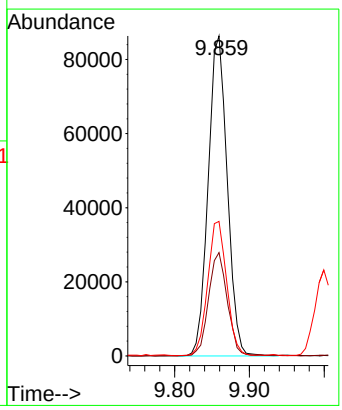


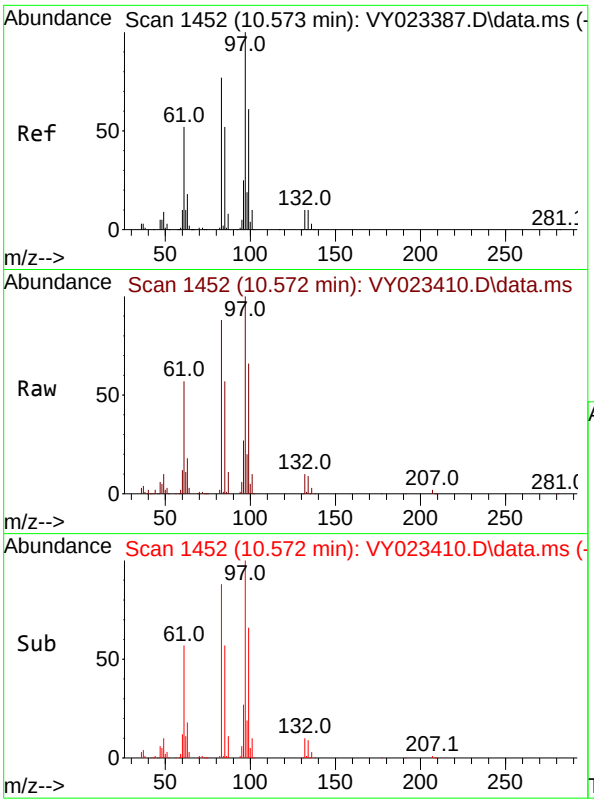




#54
cis-1,3-Dichloropropene
Concen: 20.809 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 75 Resp: 153238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.2 | 25.4 | 38.0 |
| 39 | 42.0 | 32.8 | 49.2 |

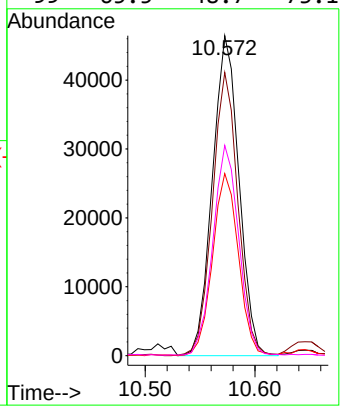





#55
1,1,2-Trichloroethane
Concen: 20.422 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 97 Resp: 7824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.3 | 61.8 | 92.6 |
| 85 | 56.9 | 41.3 | 61.9 |
| 99 | 65.5 | 48.7 | 73.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

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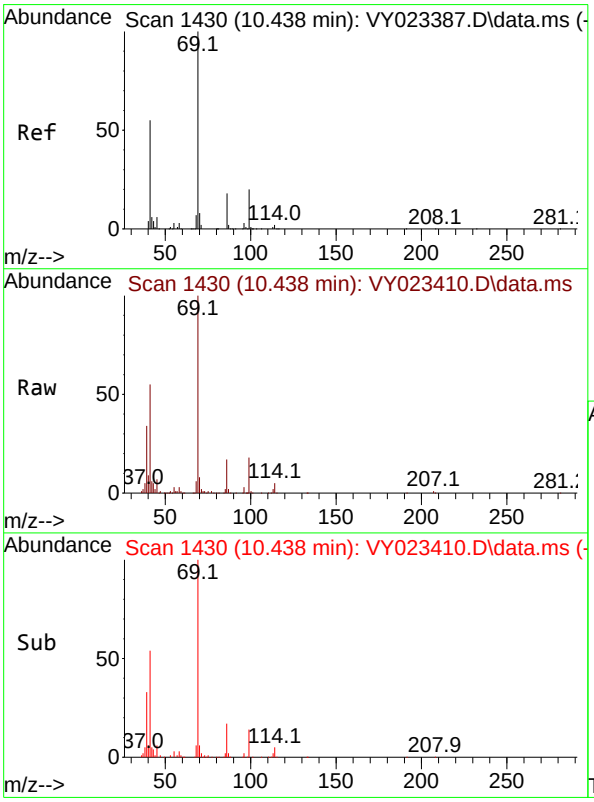
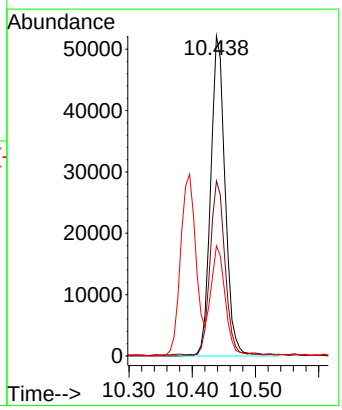
Supervised By :Semsettin Yesilyurt 10/10/2025

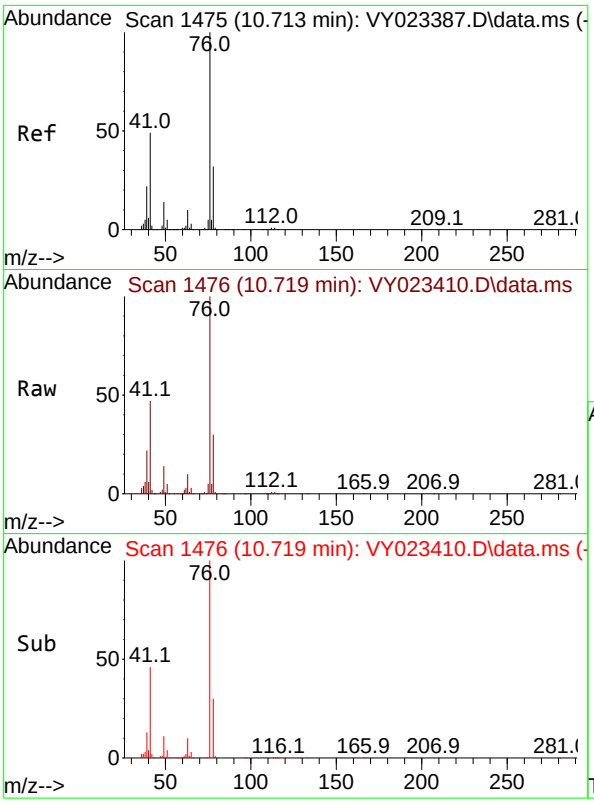



#56
Ethyl methacrylate
Concen: 18.797 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 69 Resp: 83077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 55.0 | 44.6 | 67.0 |
| 39 | 32.7 | 27.0 | 40.4 |






#57
1,3-Dichloropropane
Concen: 20.856 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 76 Resp: 12662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.0 | 25.9 | 38.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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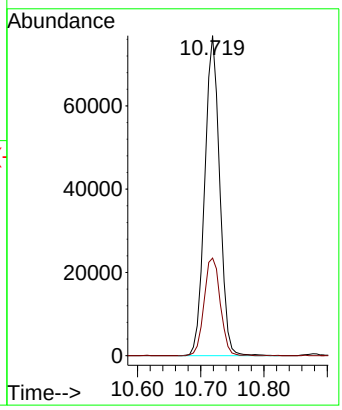
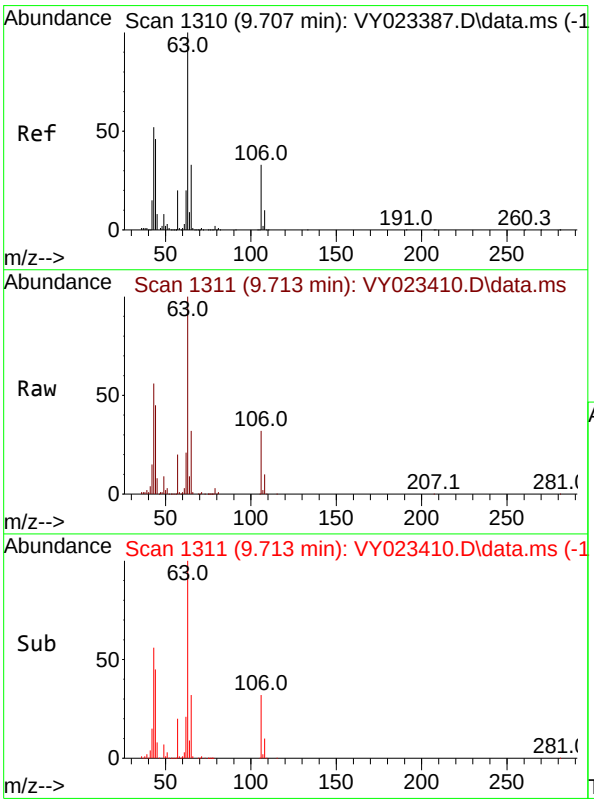
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

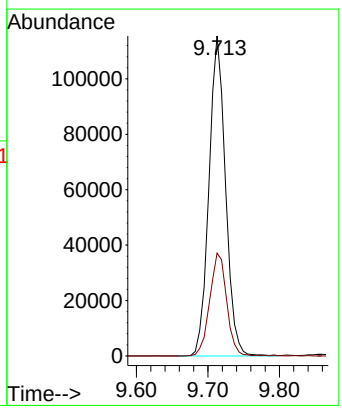


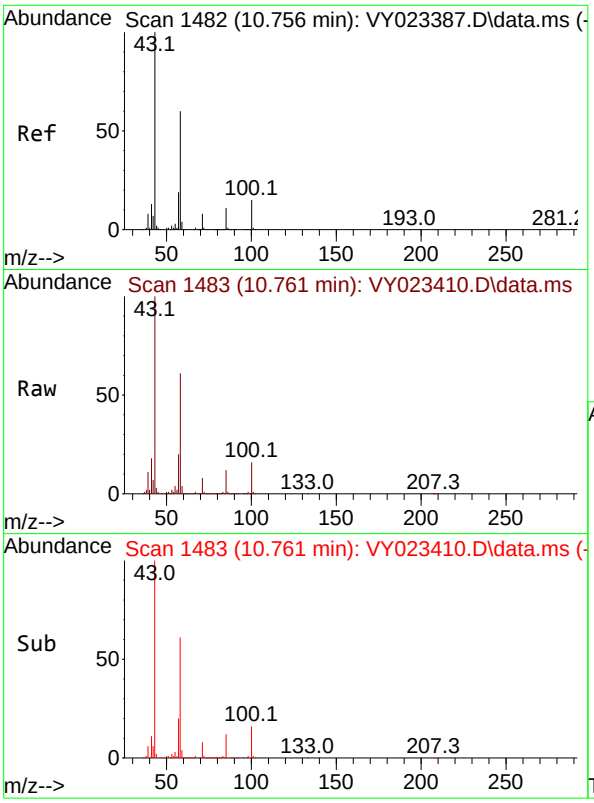




#58
2-Chloroethyl Vinyl ether
Concen: 93.826 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 63 Resp: 185766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 32.9 | 26.6 | 39.8 |

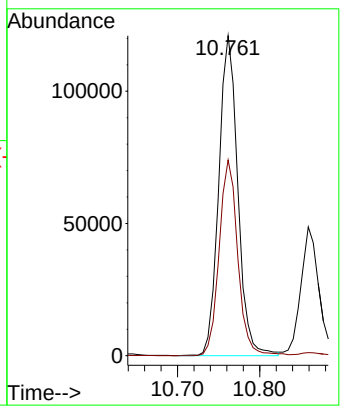





#59
2-Hexanone
Concen: 103.740 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 43 Resp: 19492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.9 | 30.5 | 91.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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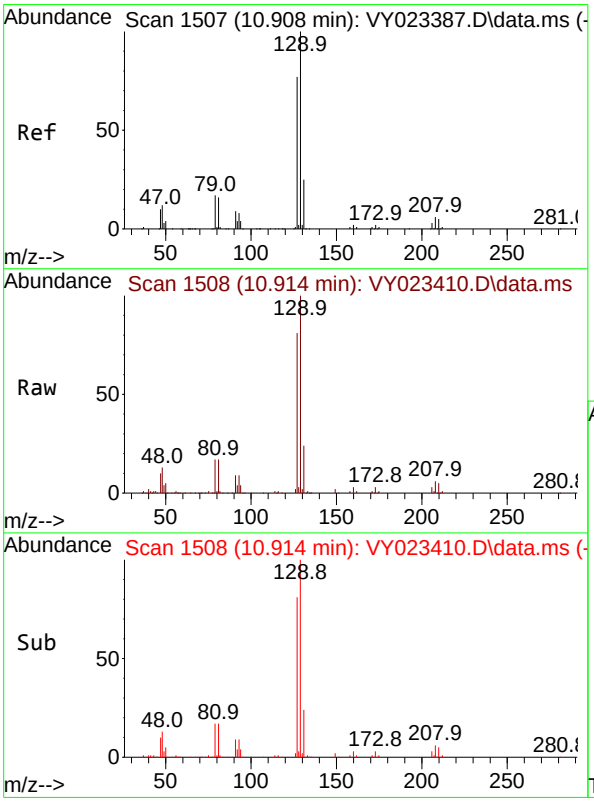
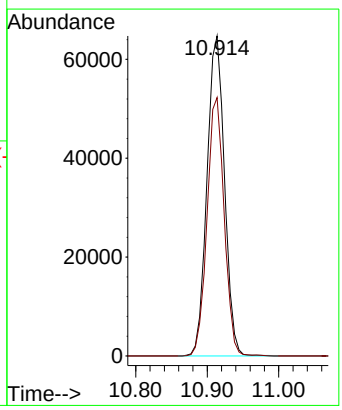
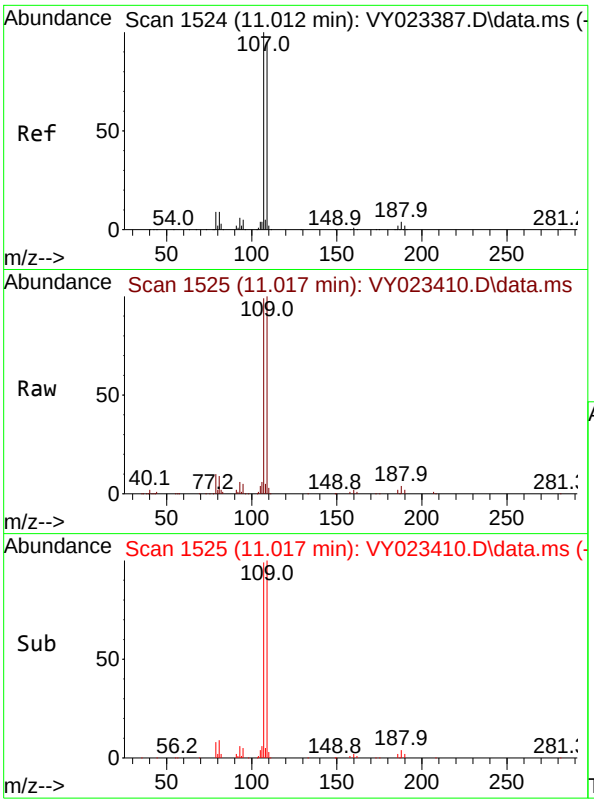



#60
Dibromochloromethane
Concen: 20.491 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:129 Resp: 110073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 79.0 | 38.6 | 115.7 |

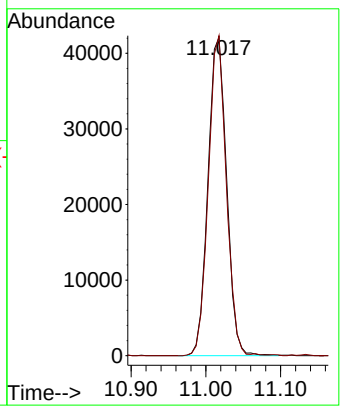





#61
1,2-Dibromoethane
Concen: 20.012 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:107 Resp: 7312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.8 | 76.1 | 114.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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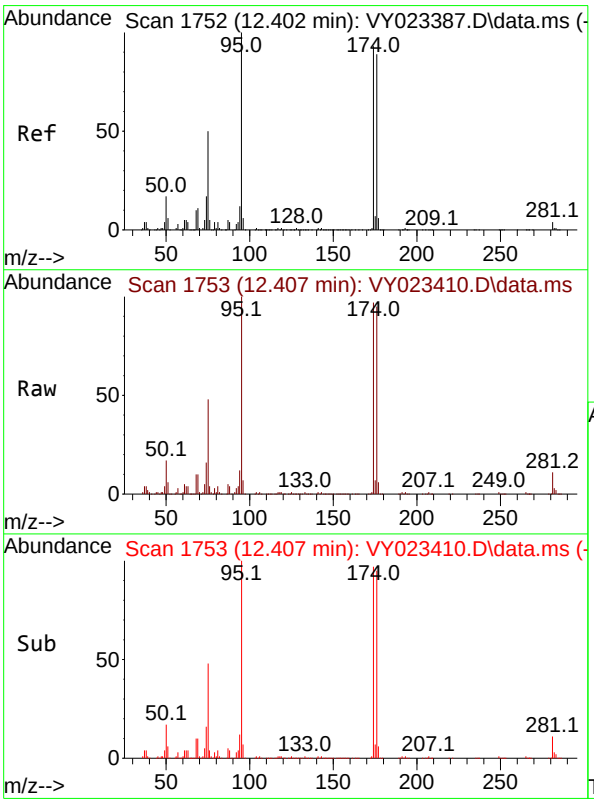
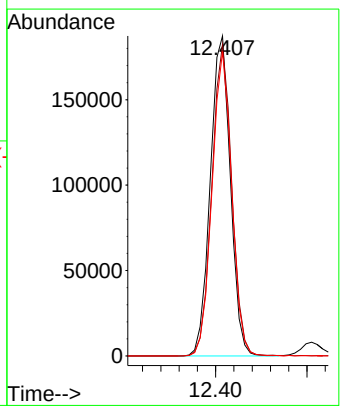
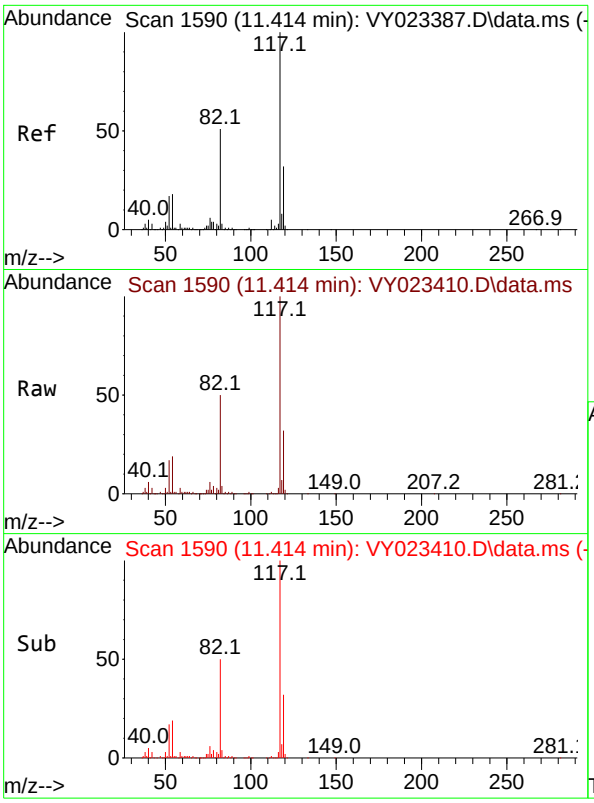



#62
4-Bromofluorobenzene
Concen: 47.716 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 95 Resp: 285456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 96.6 | 0.0 | 192.8 |
| 176 | 93.1 | 0.0 | 187.6 |

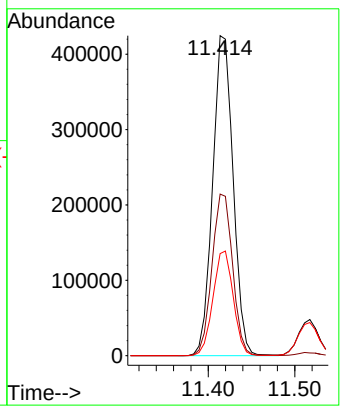





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:117 Resp: 69655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.5 | 41.0 | 61.4 |
| 119 | 31.9 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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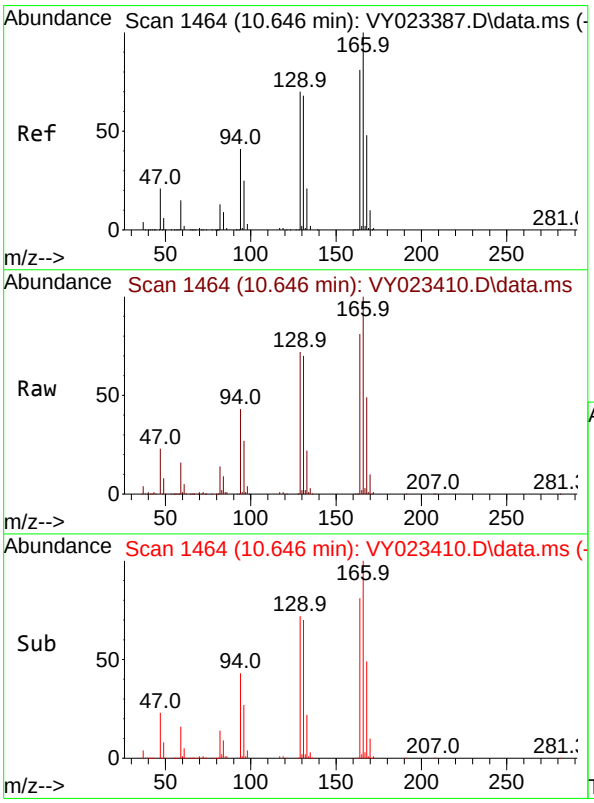
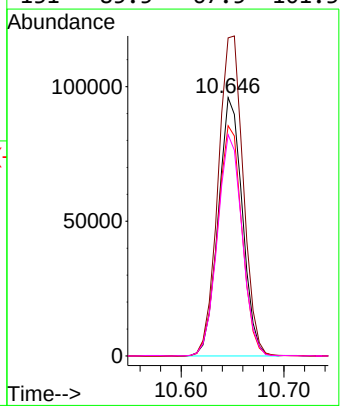
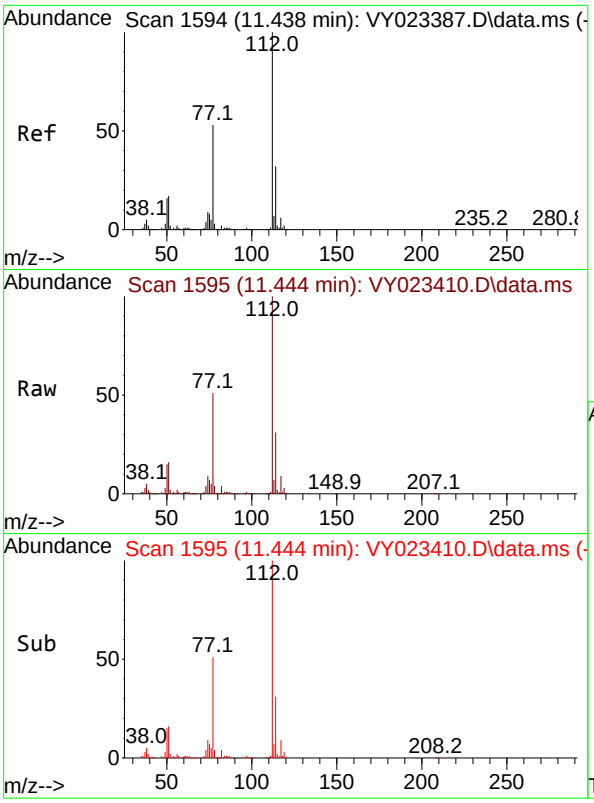



#64
Tetrachloroethene
Concen: 21.712 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:164 Resp: 156158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 123.0 | 99.4 | 149.0 |
| 129 | 89.1 | 69.4 | 104.2 |
| 131 | 85.5 | 67.5 | 101.3 |

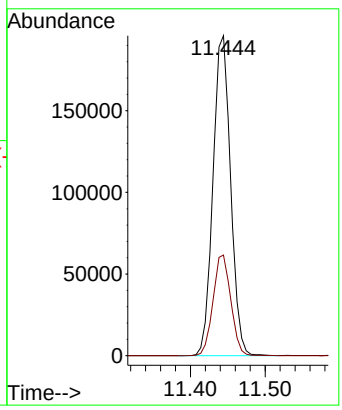





#65
Chlorobenzene
Concen: 21.169 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:112 Resp: 32070

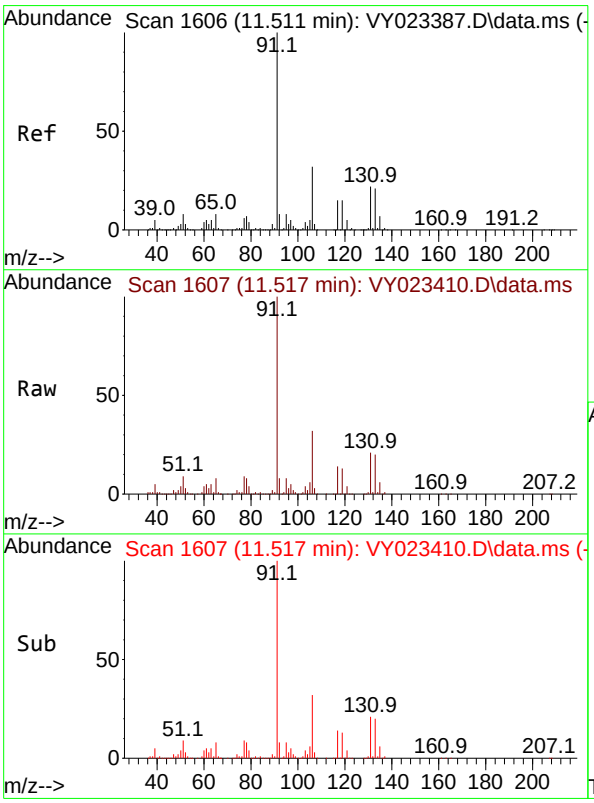
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.4 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

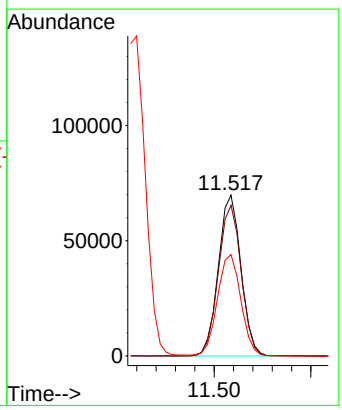
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

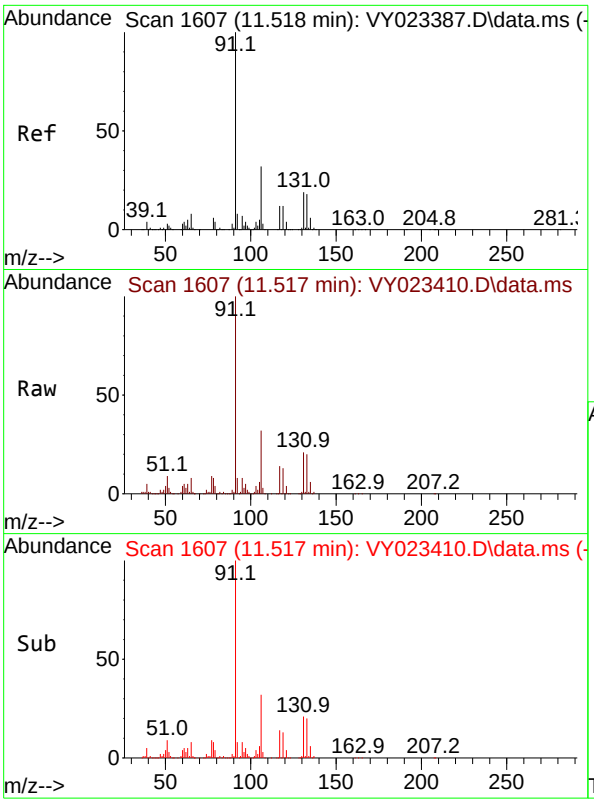



#66
1,1,1,2-Tetrachloroethane
Concen: 20.929 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:131 Resp: 112990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.7 | 48.4 | 145.2 |
| 119 | 65.5 | 32.4 | 97.2 |

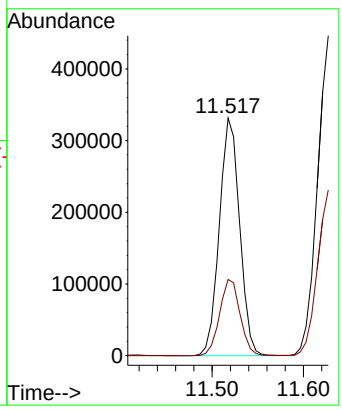





#67
Ethyl Benzene
Concen: 20.873 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 91 Resp: 51185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.0 | 25.8 | 38.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 10/10/2025
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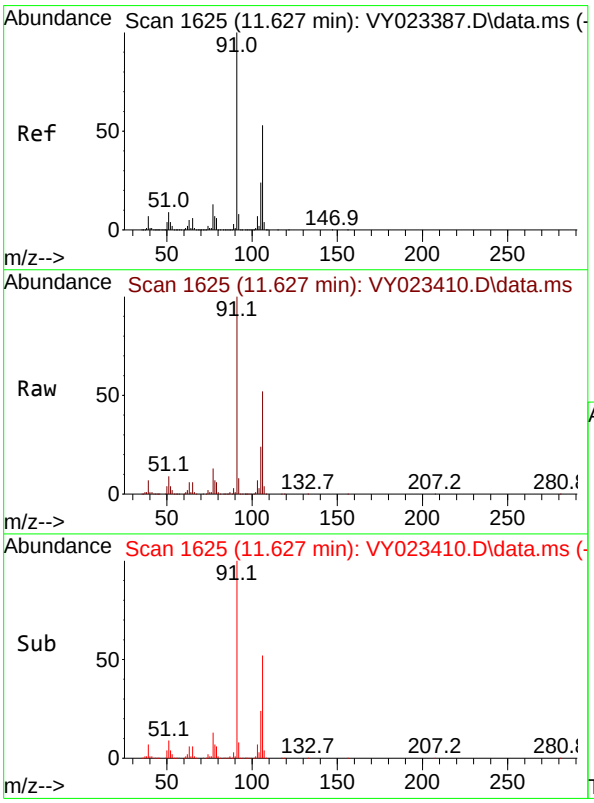
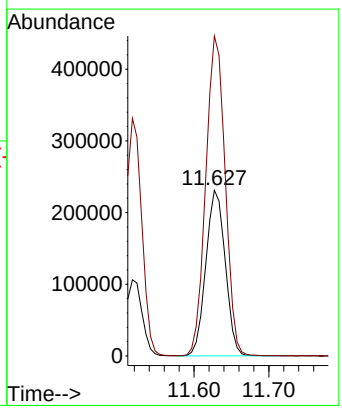
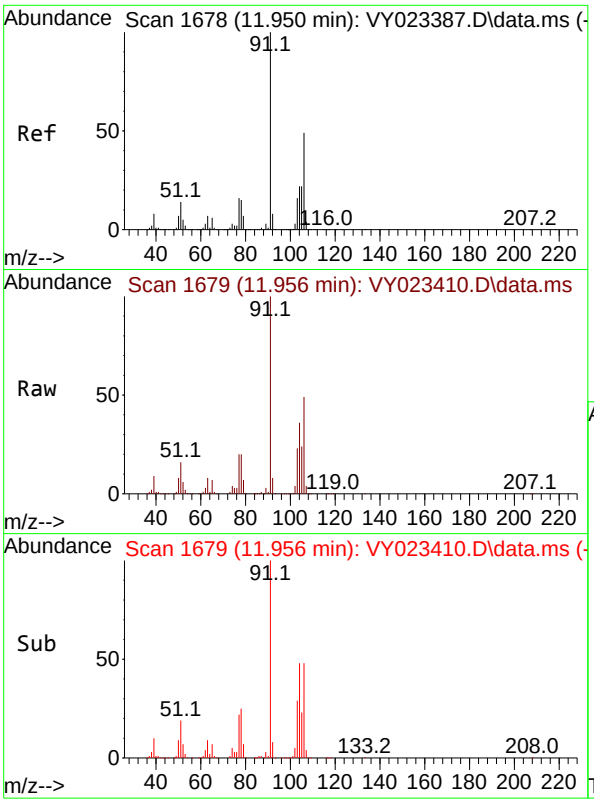



#68
m/p-Xylenes
Concen: 42.346 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:106 Resp: 416514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 193.3 | 152.6 | 229.0 |

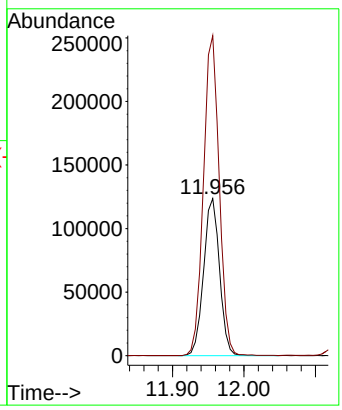





#69
o-Xylene
Concen: 20.713 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:106 Resp: 19109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 201.8 | 101.4 | 304.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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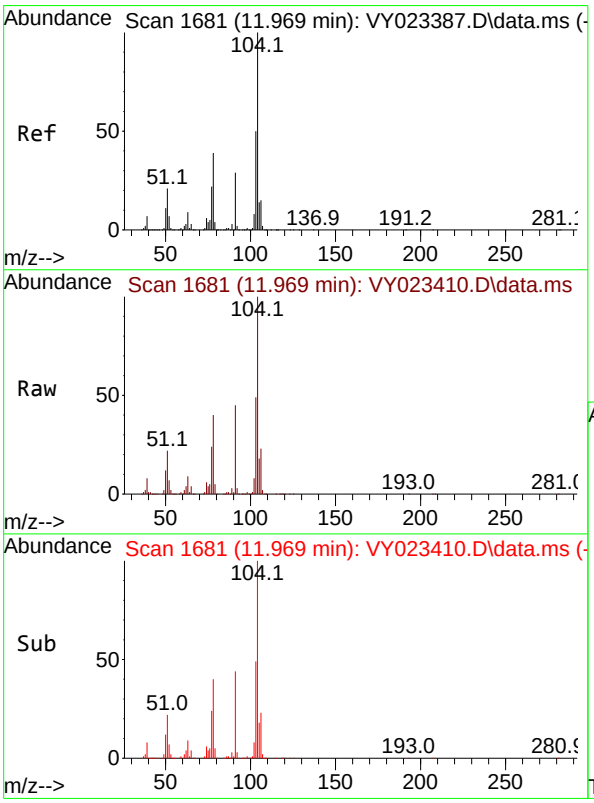
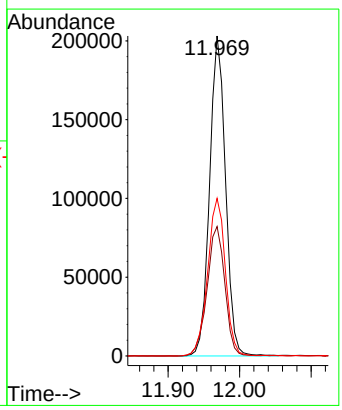
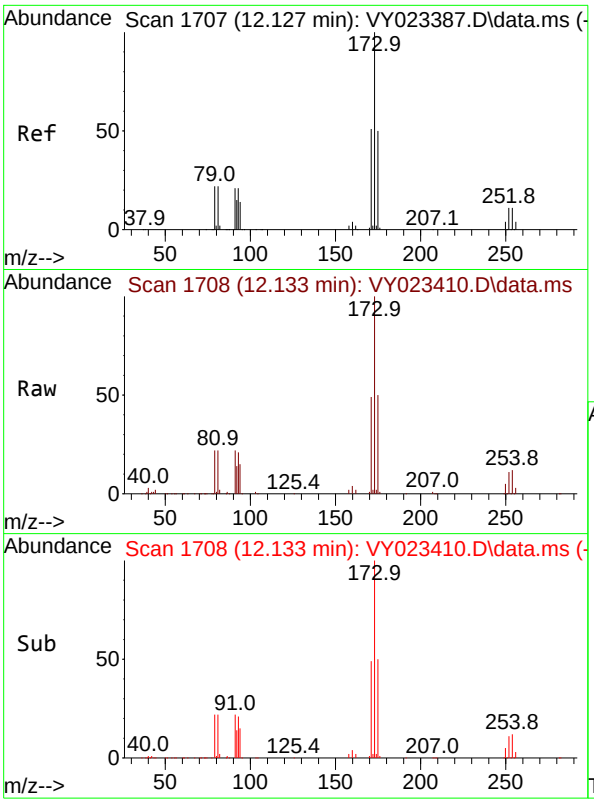



#70
Styrene
Concen: 20.739 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:104 Resp: 314637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 45.0 | 36.1 | 54.1 |
| 103 | 54.7 | 43.2 | 64.8 |

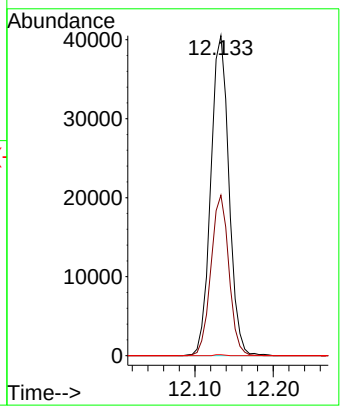





#71
Bromoform
Concen: 19.504 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:173 Resp: 6531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.5 | 24.8 | 74.3 |
| 254 | 0.2 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 10/10/2025
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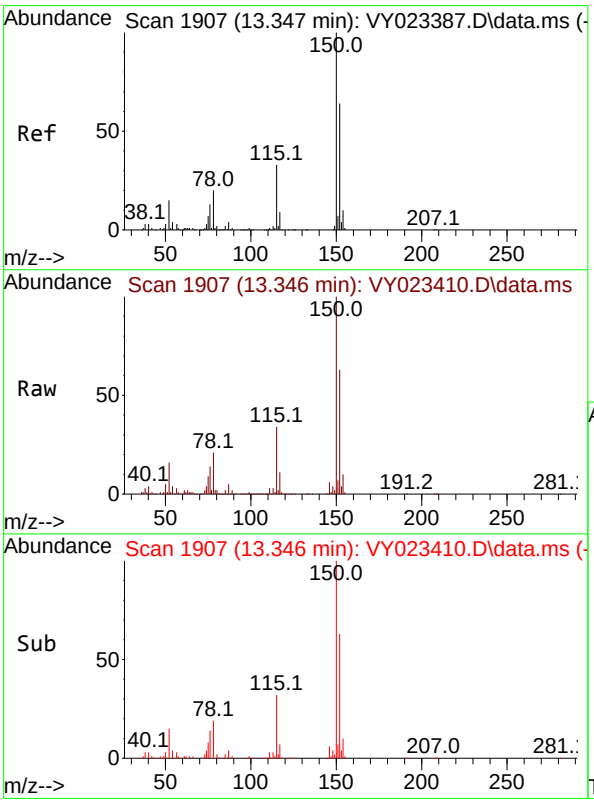
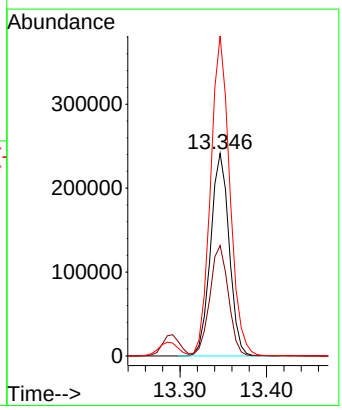
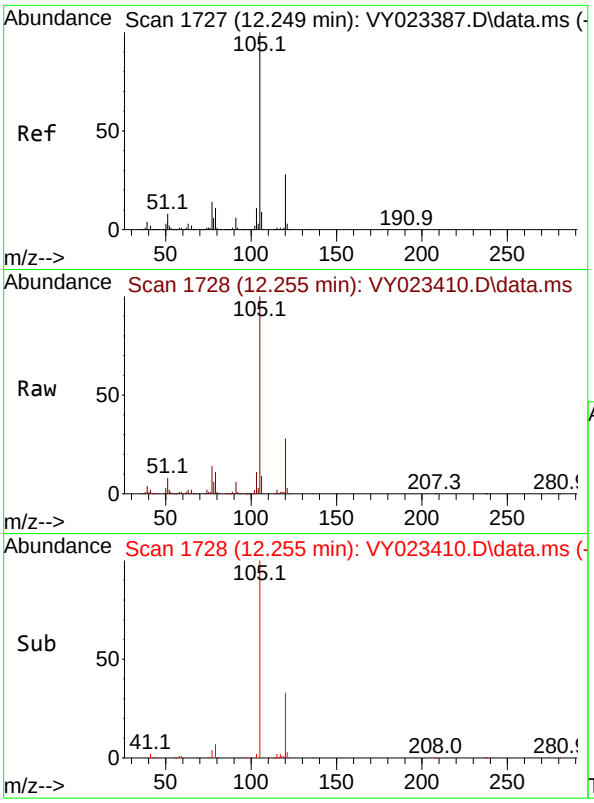



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:152 Resp: 359830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 54.6 | 27.1 | 81.2 |
| 150 | 163.3 | 0.0 | 347.4 |

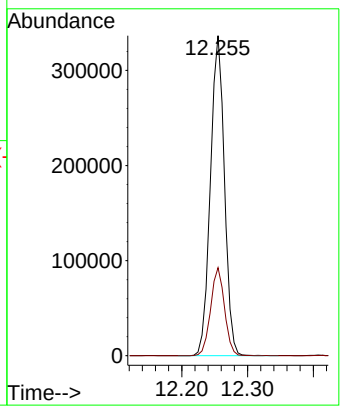





#73
Isopropylbenzene
Concen: 21.057 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:105 Resp: 49932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.1 | 13.9 | 41.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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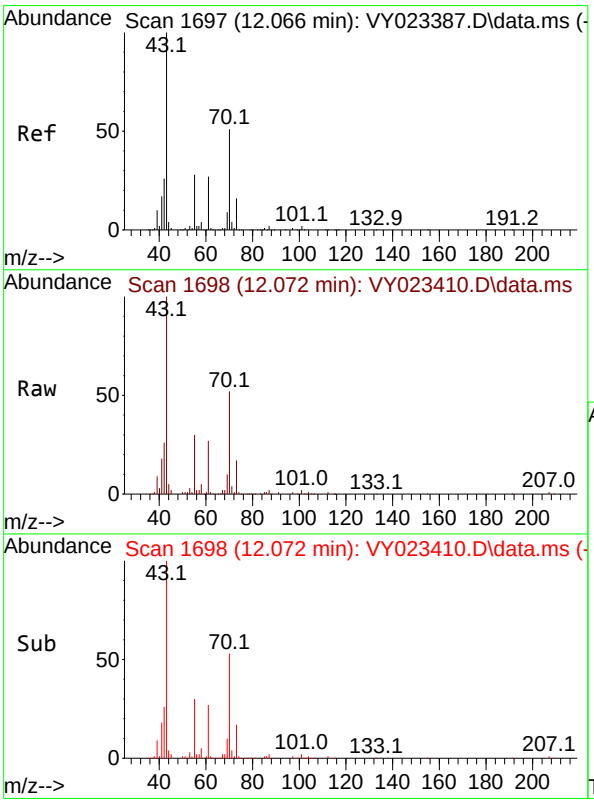
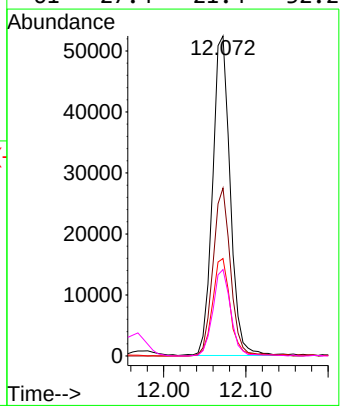
Supervised By :Semsettin Yesilyurt 10/10/2025

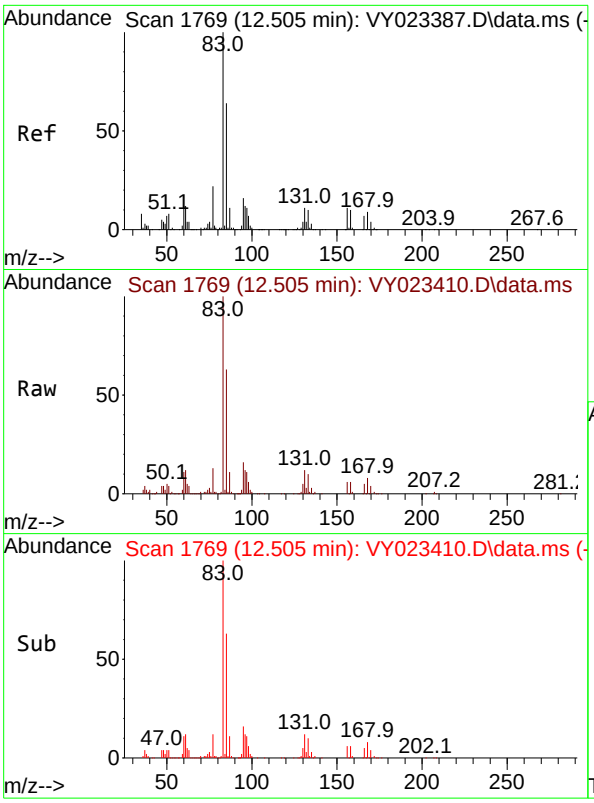



#74
N-amyl acetate
Concen: 18.309 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 43 Resp: 77981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 52.6 | 41.1 | 61.7 |
| 55 | 30.8 | 23.0 | 34.6 |
| 61 | 27.4 | 21.4 | 32.2 |

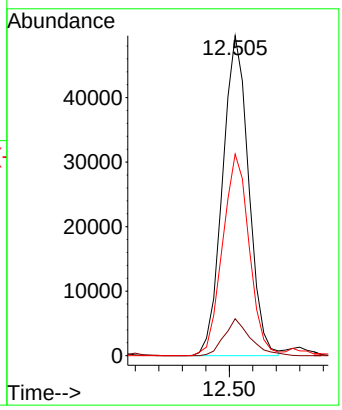





#75
1,1,2,2-Tetrachloroethane
Concen: 19.724 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 83 Resp: 7649

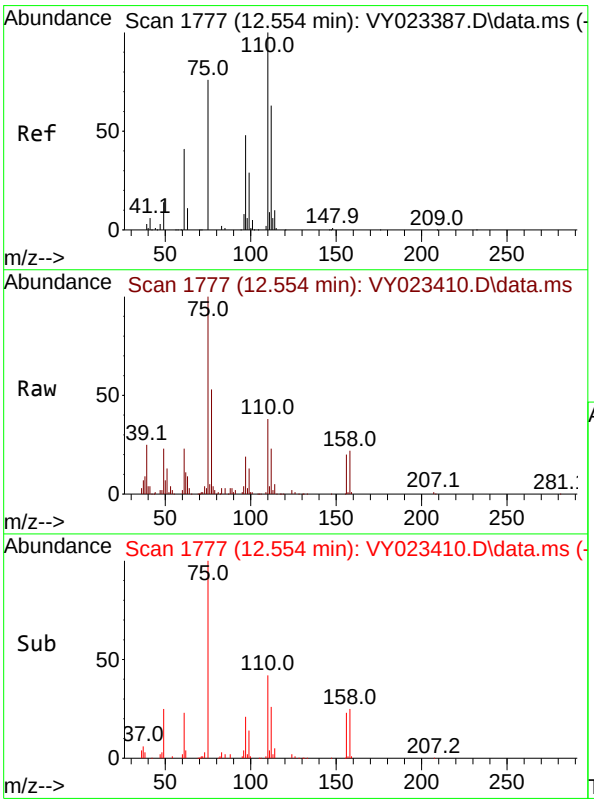
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.5 | 5.9 | 17.6 |
| 85 | 64.1 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

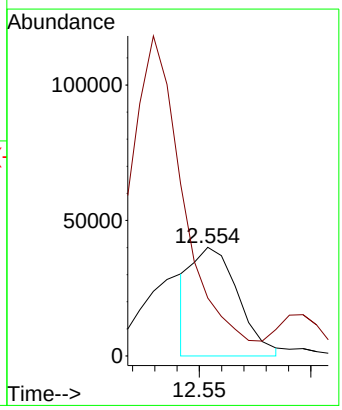
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

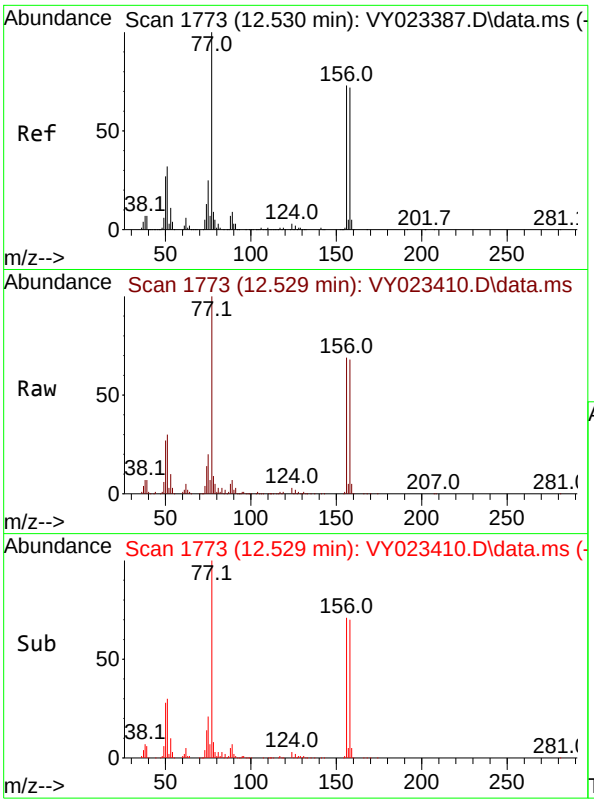



#76
1,2,3-Trichloropropane
Concen: 18.223 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 75 Resp: 57851

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

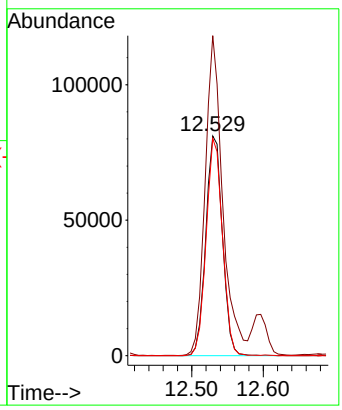





#77
Bromobenzene
Concen: 20.729 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:156 Resp: 13068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 154.1 | 76.8 | 230.5 |
| 158 | 97.1 | 49.0 | 147.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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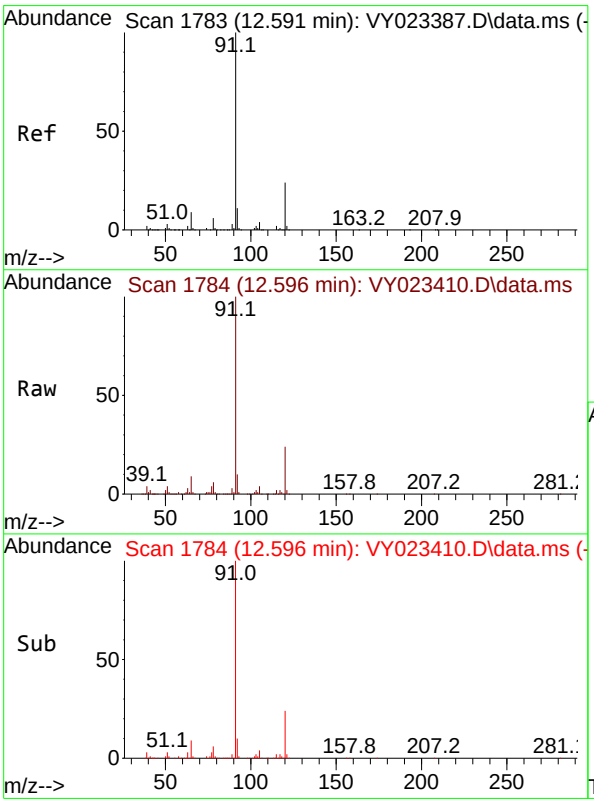
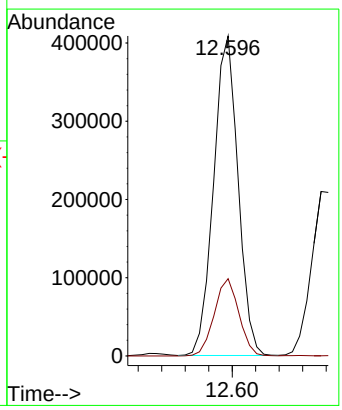
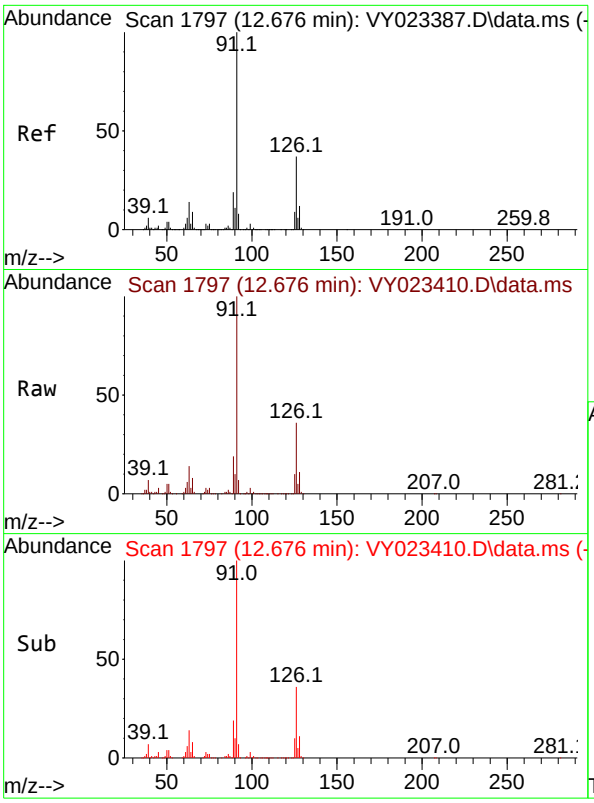



#78
n-propylbenzene
Concen: 21.528 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 91 Resp: 590757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.3 | 12.3 | 36.8 |

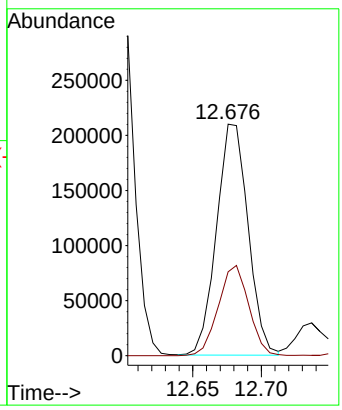





#79
2-Chlorotoluene
Concen: 20.967 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 91 Resp: 33692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 37.7 | 18.5 | 55.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

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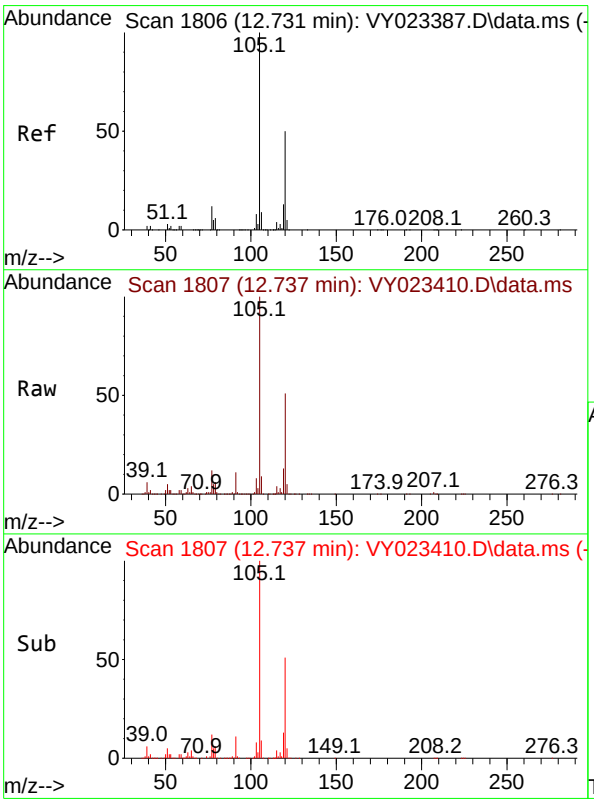
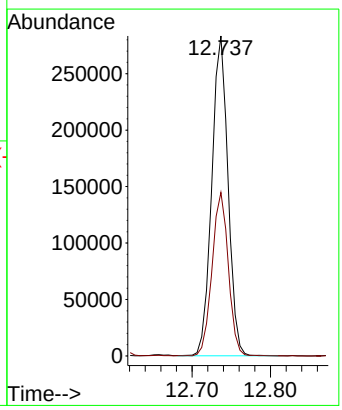
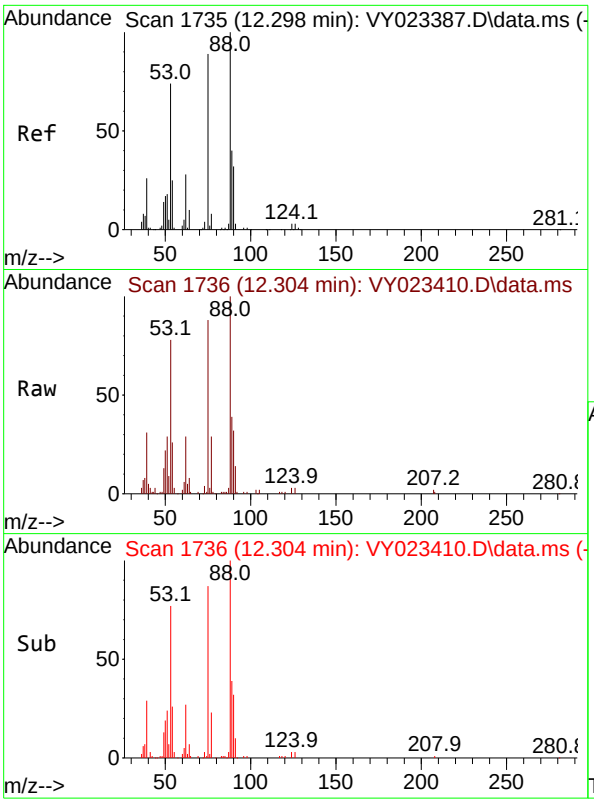



#80
1,3,5-Trimethylbenzene
Concen: 21.283 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:105 Resp: 407825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 51.2 | 25.4 | 76.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 19.051 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 75 Resp: 2466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 88.1 | 68.6 | 102.8 |
| 89 | 47.7 | 39.0 | 58.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
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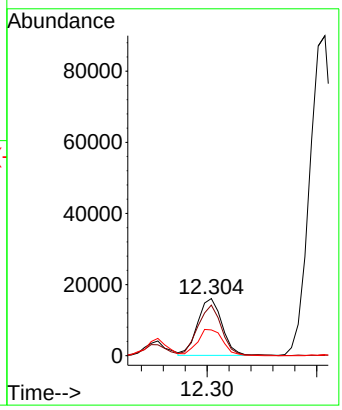
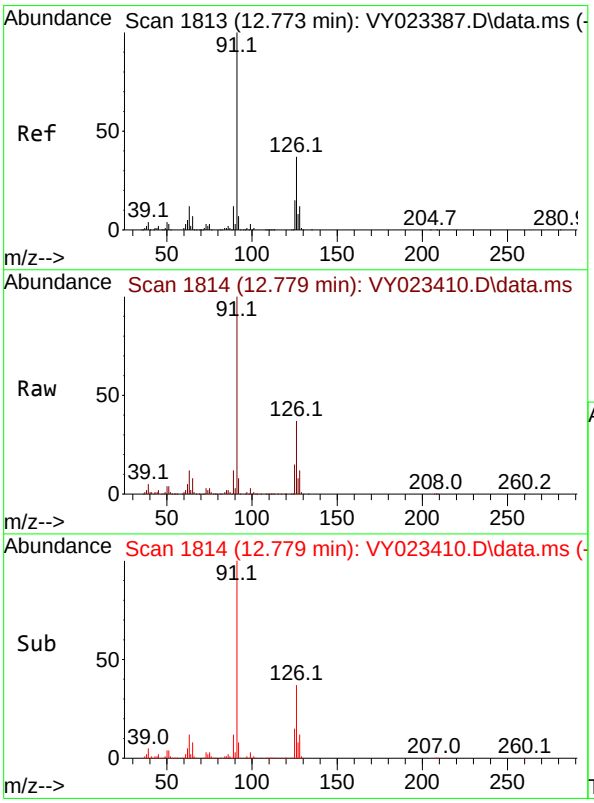
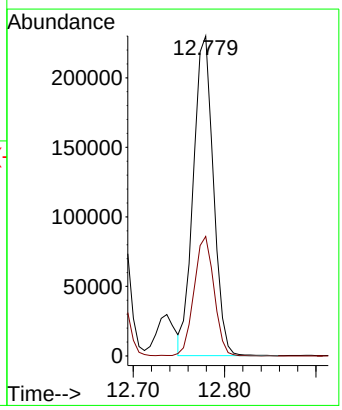


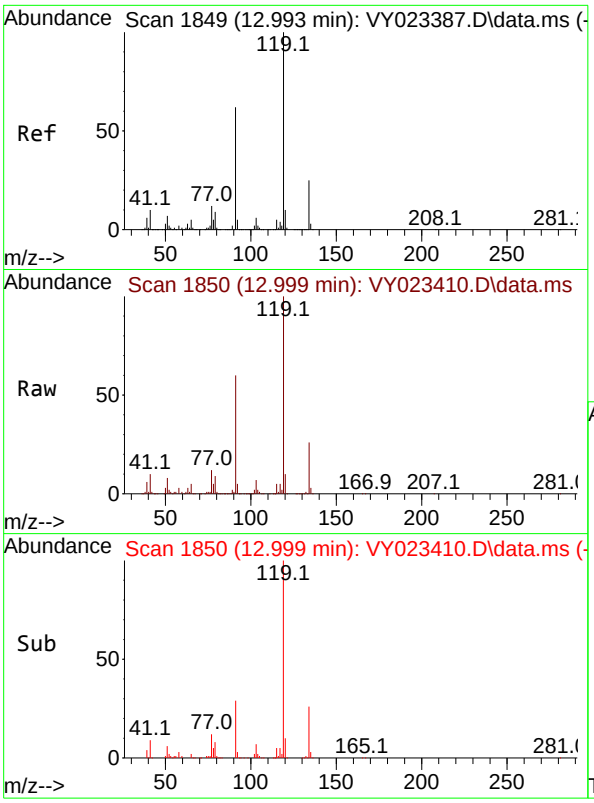




#82
4-Chlorotoluene
Concen: 21.151 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 91 Resp: 350046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 37.5 | 18.4 | 55.4 |

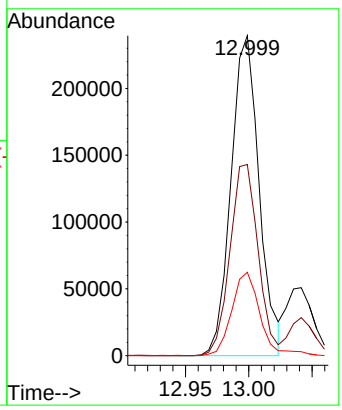





#83
tert-Butylbenzene
Concen: 20.953 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:119 Resp: 37071

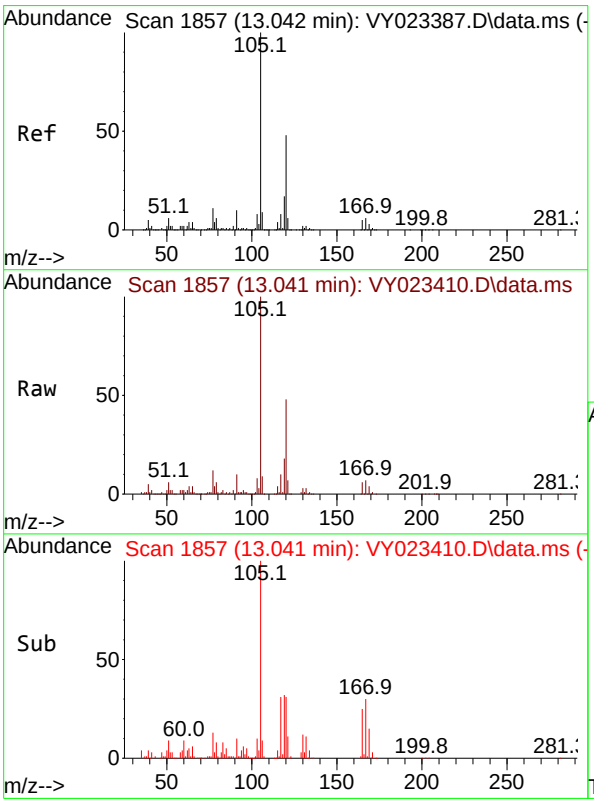
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 59.8 | 29.9 | 89.8 |
| 134 | 26.3 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

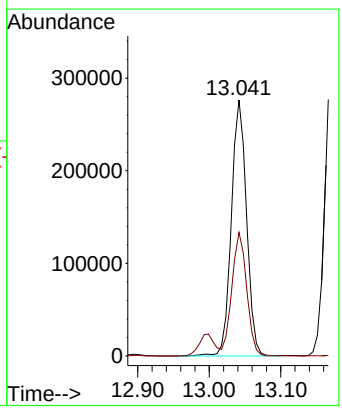
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

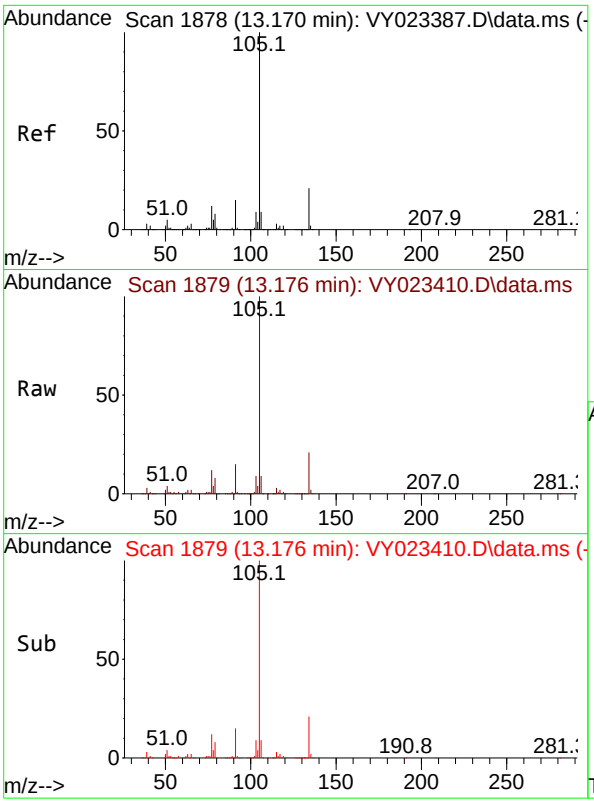



#84
1,2,4-Trimethylbenzene
Concen: 21.285 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:105 Resp: 407038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.9 | 23.8 | 71.2 |






#85
sec-Butylbenzene
Concen: 21.516 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

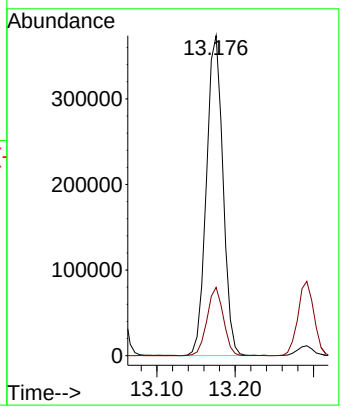
Tgt Ion:105 Resp: 54606

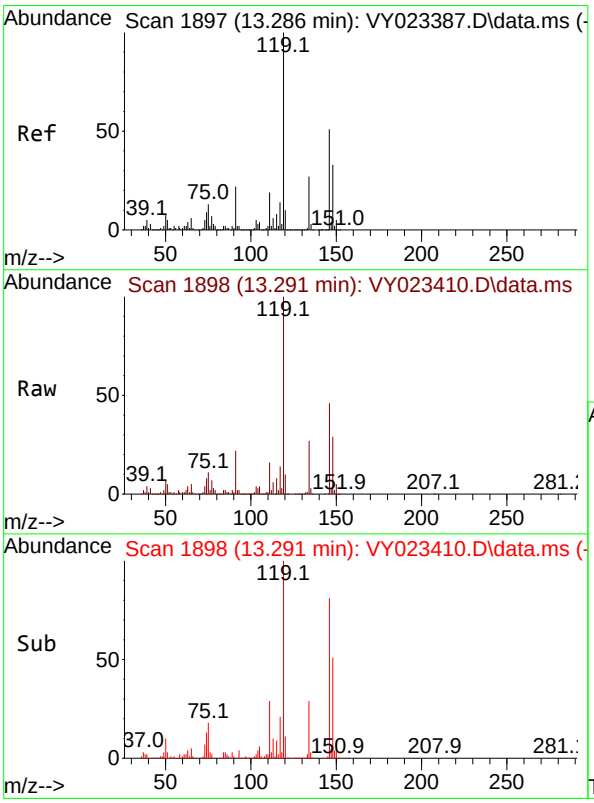
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.1 | 10.7 | 32.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

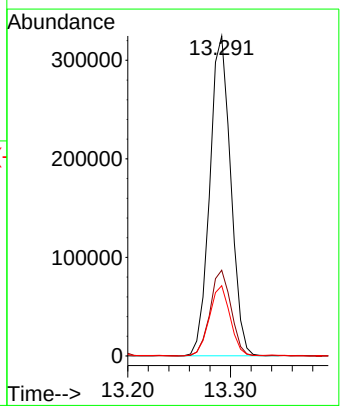


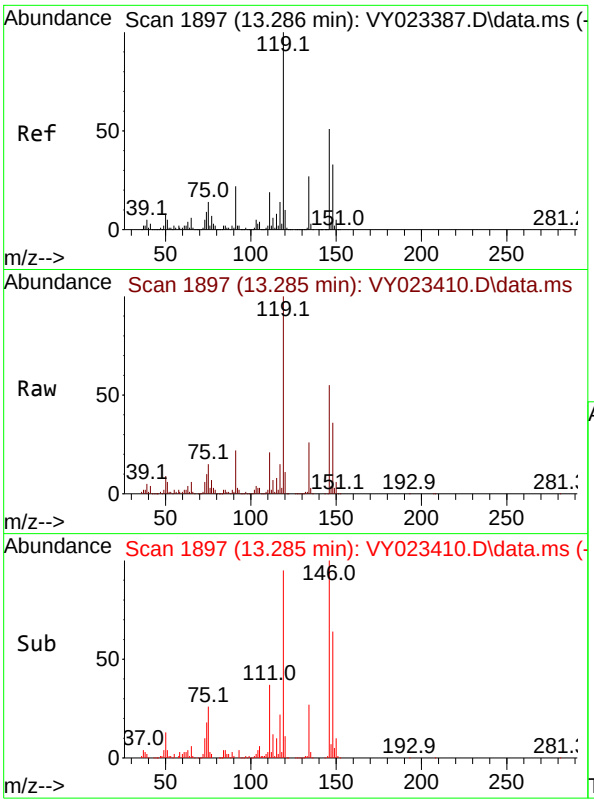




#86
p-Isopropyltoluene
Concen: 21.249 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:119 Resp: 459158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.9 | 13.6 | 40.7 |
| 91 | 21.8 | 10.9 | 32.9 |

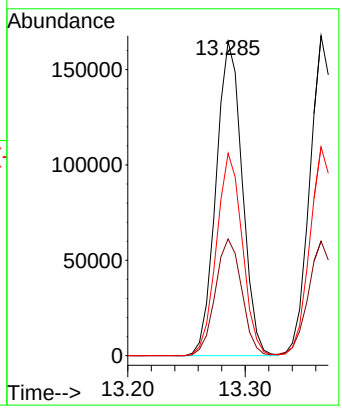





#87
1,3-Dichlorobenzene
Concen: 20.845 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:146 Resp: 25589

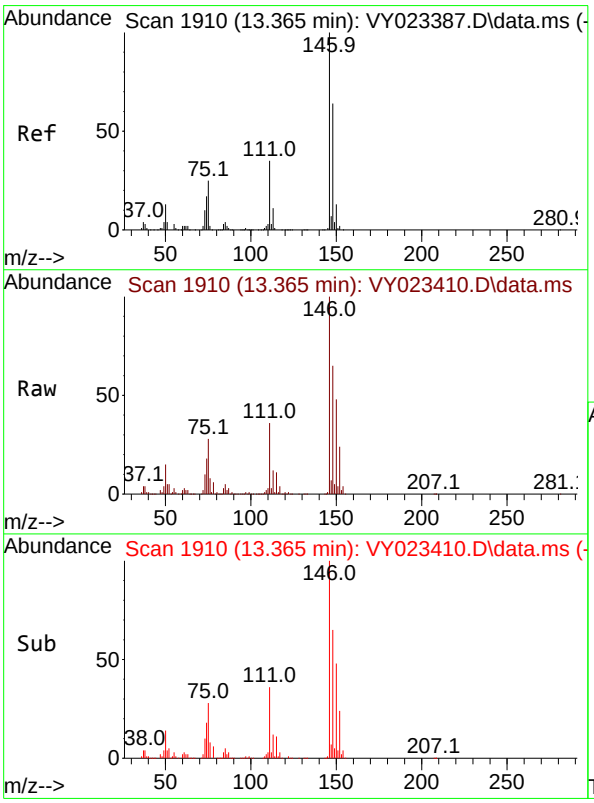
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.3 | 18.7 | 56.1 |
| 148 | 63.4 | 31.9 | 95.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

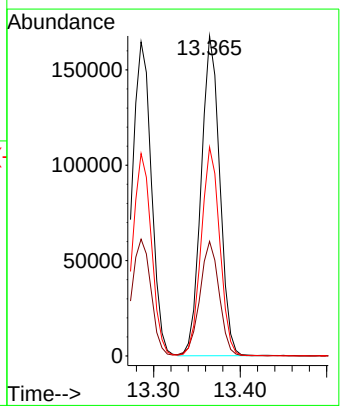
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

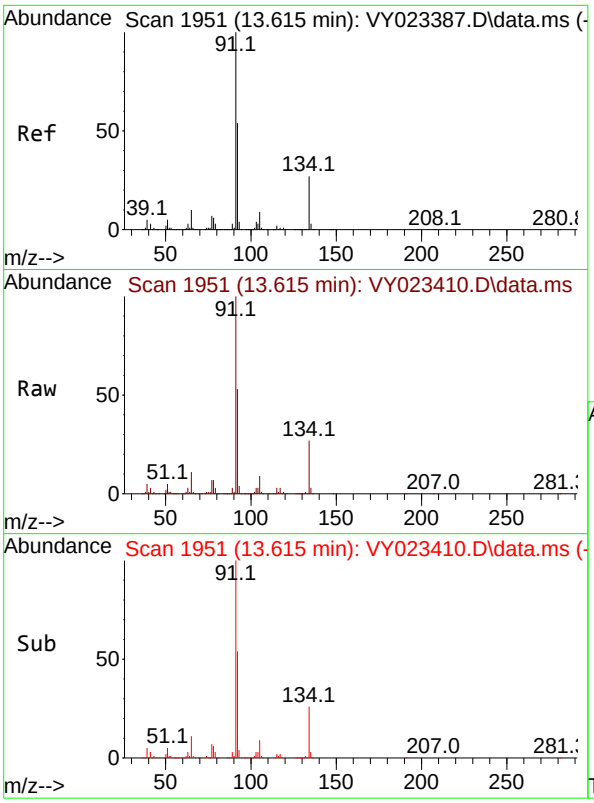



#88
1,4-Dichlorobenzene
Concen: 20.681 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:146 Resp: 250747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.0 | 18.0 | 54.0 |
| 148 | 65.1 | 31.9 | 95.7 |






#89
n-Butylbenzene
Concen: 20.765 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

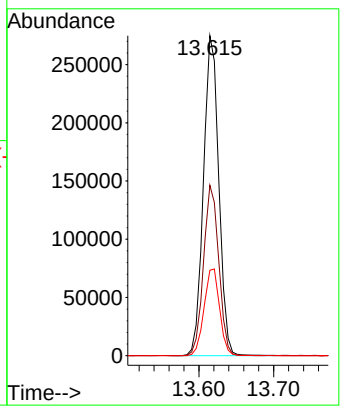
Tgt Ion: 91 Resp: 39096

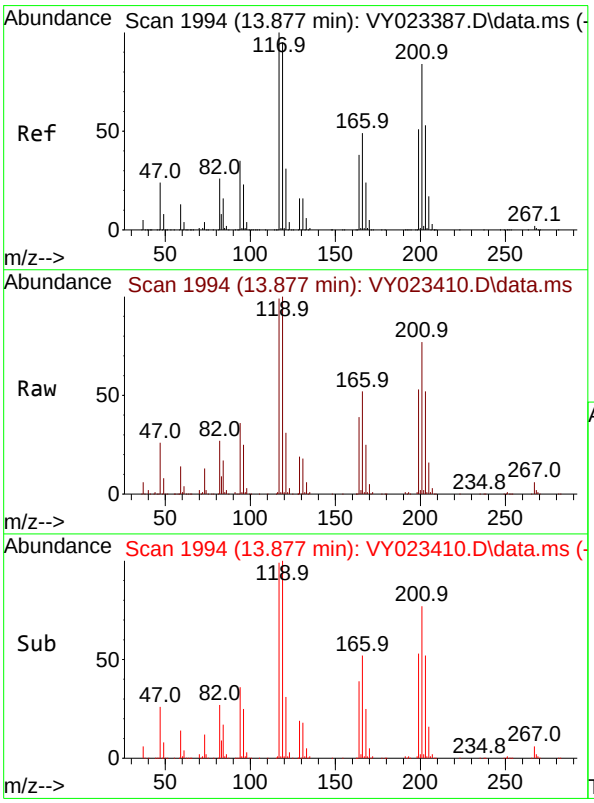
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.9 | 27.0 | 80.8 |
| 134 | 27.5 | 14.1 | 42.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

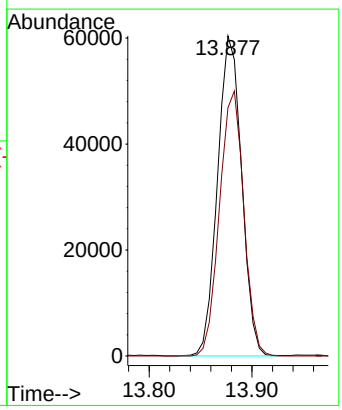


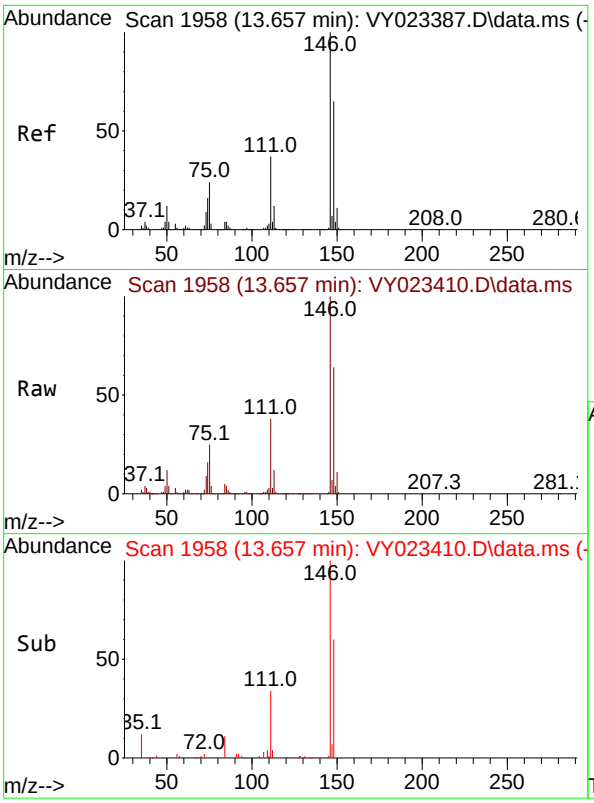




#90
Hexachloroethane
Concen: 21.134 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:117 Resp: 98225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 83.2 | 43.8 | 131.4 |

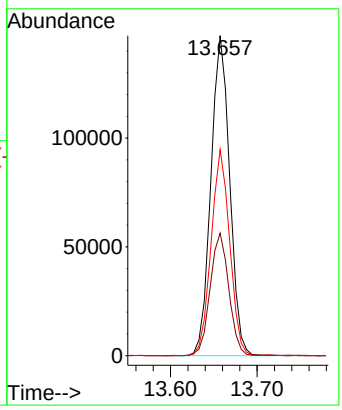





#91
1,2-Dichlorobenzene
Concen: 20.620 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:146 Resp: 22192

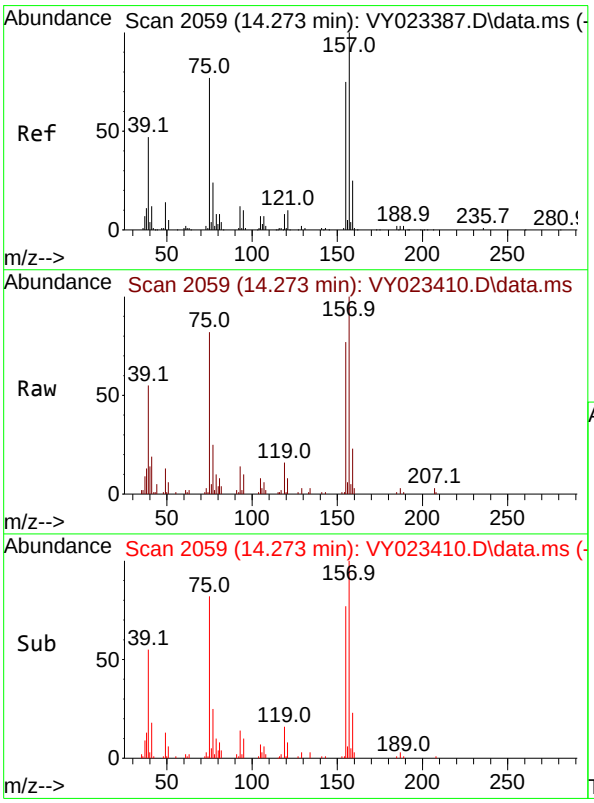
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.1 | 19.0 | 57.0 |
| 148 | 63.5 | 32.1 | 96.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

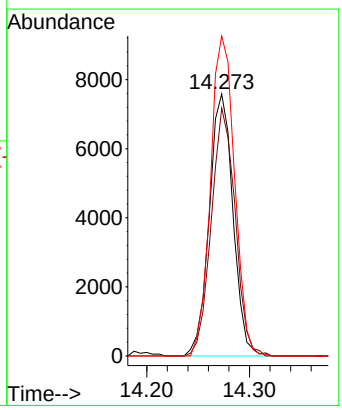
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

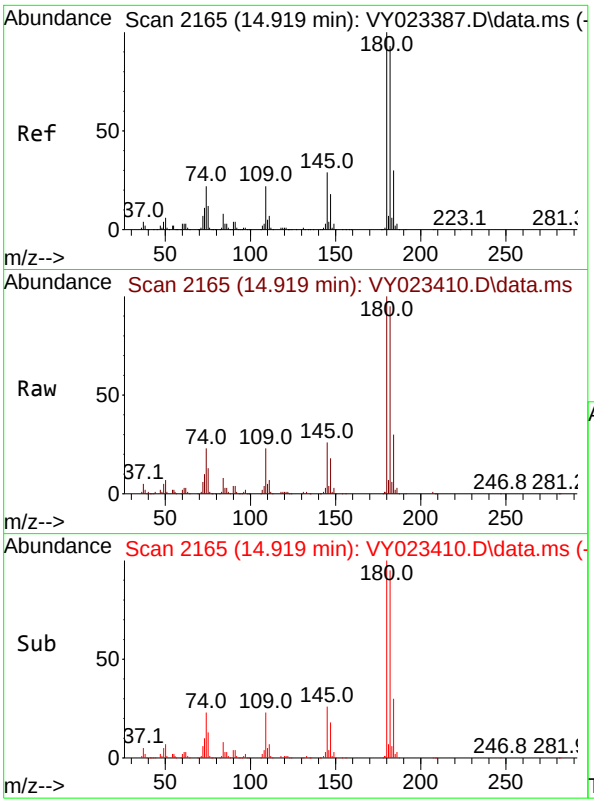



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.069 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion: 75 Resp: 12135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 95.1 | 50.0 | 150.0 |
| 157 | 123.9 | 63.8 | 191.5 |

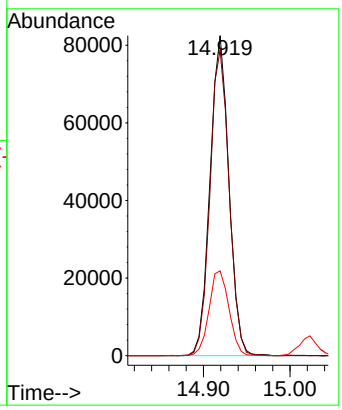





#93
1,2,4-Trichlorobenzene
Concen: 18.637 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:180 Resp: 12504

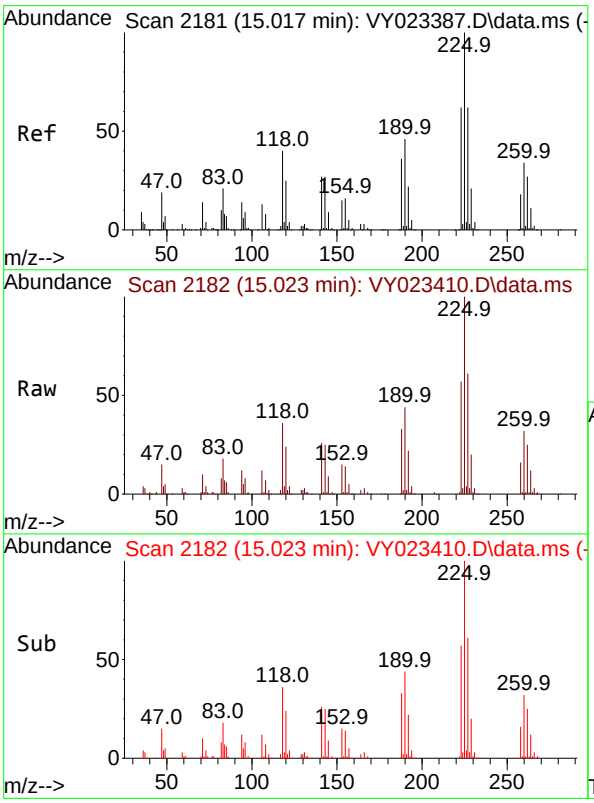
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.5 | 47.9 | 143.6 |
| 145 | 28.0 | 14.7 | 44.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

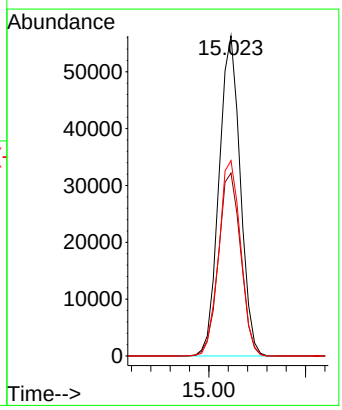
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025

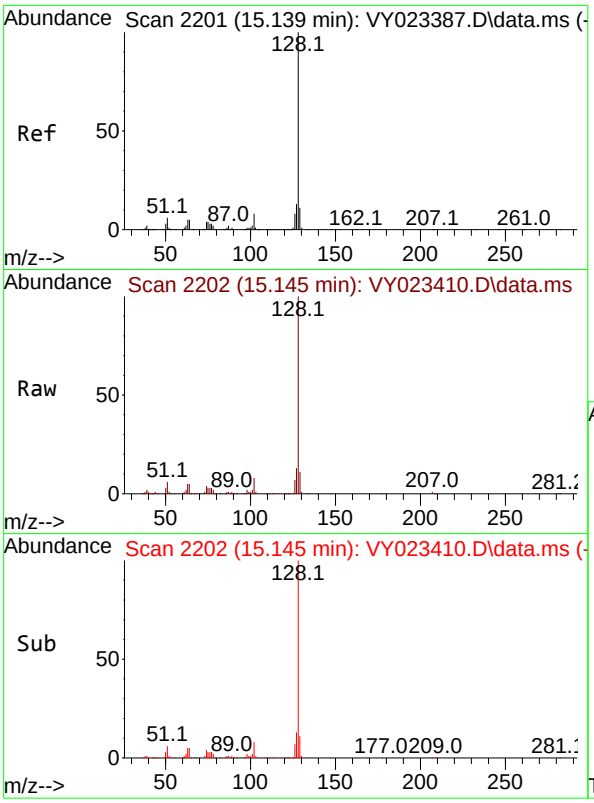



#94
Hexachlorobutadiene
Concen: 20.487 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:225 Resp: 85691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 59.8 | 30.8 | 92.3 |
| 227 | 62.9 | 31.9 | 95.7 |

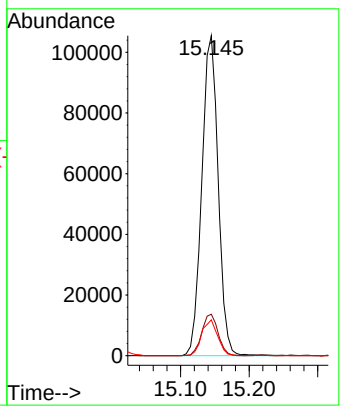





#95
Naphthalene
Concen: 16.406 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:128 Resp: 17529

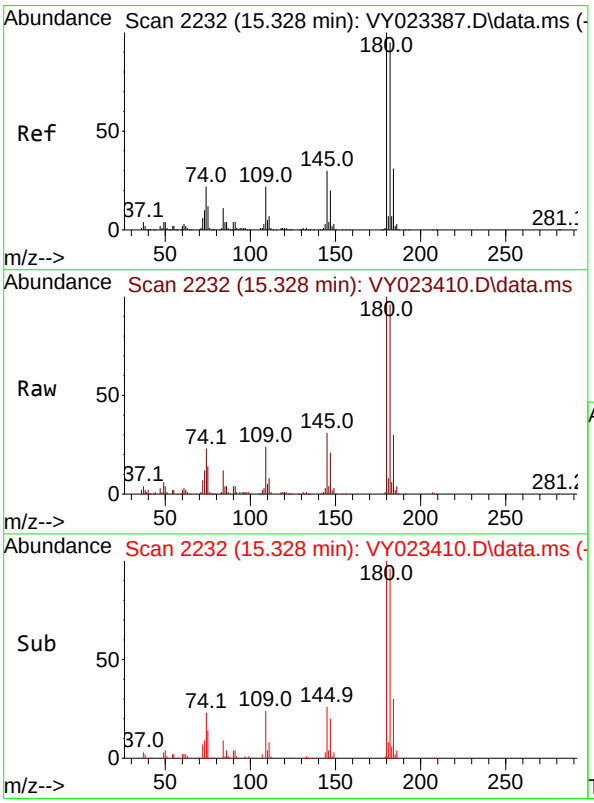
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.4 | 15.6 |
| 129 | 10.9 | 8.9 | 13.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1009SBSD01

**Manual Integrations**
**APPROVED**

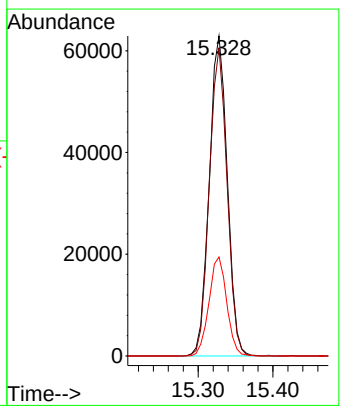
Reviewed By :Mahesh Dadoda 10/10/2025
Supervised By :Semsettin Yesilyurt 10/10/2025




#96
1,2,3-Trichlorobenzene
Concen: 18.186 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY023410.D
Acq: 09 Oct 2025 10:08

Tgt Ion:180 Resp: 105694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.5 | 47.9 | 143.8 |
| 145 | 30.5 | 15.3 | 45.9 |



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

# Manual Integration Report

| Sequence: | VY100725 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC005 | VY023384.D | 1,2,3-Trichloropropane | sam | 10/10/2025 2:59:48 AM | MMdadoda | 10/10/2025 4:37:28 AM | Peak Integrated by Software |
| VSTDICC005 | VY023384.D | 2-Chloroethyl Vinyl ether | sam | 10/10/2025 2:59:48 AM | MMdadoda | 10/10/2025 4:37:28 AM | Peak Integrated by Software |
| VSTDICC005 | VY023384.D | Methacrylonitrile | sam | 10/10/2025 2:59:48 AM | MMdadoda | 10/10/2025 4:37:28 AM | Peak Integrated by Software |
| VSTDICC010 | VY023385.D | 1,2,3-Trichloropropane | sam | 10/10/2025 2:59:52 AM | MMdadoda | 10/10/2025 4:37:33 AM | Peak Integrated by Software |
| VSTDICC010 | VY023385.D | 2-Chloroethyl Vinyl ether | sam | 10/10/2025 2:59:52 AM | MMdadoda | 10/10/2025 4:37:33 AM | Peak Integrated by Software |
| VSTDICC020 | VY023386.D | 1,2,3-Trichloropropane | sam | 10/10/2025 2:59:56 AM | MMdadoda | 10/10/2025 4:37:37 AM | Peak Integrated by Software |
| VSTDICC020 | VY023386.D | 2-Chloroethyl Vinyl ether | sam | 10/10/2025 2:59:56 AM | MMdadoda | 10/10/2025 4:37:37 AM | Peak Integrated by Software |
| VSTDICC020 | VY023386.D | Methacrylonitrile | sam | 10/10/2025 2:59:56 AM | MMdadoda | 10/10/2025 4:37:37 AM | Peak Integrated by Software |
| VSTDICCC050 | VY023387.D | 1,2,3-Trichloropropane | sam | 10/10/2025 3:00:01 AM | MMdadoda | 10/10/2025 4:37:41 AM | Peak Integrated by Software |
| VSTDICC100 | VY023388.D | 1,2,3-Trichloropropane | sam | 10/10/2025 3:00:05 AM | MMdadoda | 10/10/2025 4:37:46 AM | Peak Integrated by Software |
| VSTDICC150 | VY023389.D | 1,2,3-Trichloropropane | sam | 10/10/2025 3:00:09 AM | MMdadoda | 10/10/2025 4:37:51 AM | Peak Integrated by Software |
| VSTDICV050 | VY023391.D | 1,2,3-Trichloropropane | sam | 10/10/2025 3:00:14 AM | MMdadoda | 10/10/2025 4:37:55 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY100725 | Instrument | MSVOA_y |
|---|---|---|---|

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

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# Manual Integration Report

| Sequence: | VY100925 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY023407.D | 1,2,3-Trichloropropane | MMDadoda | 10/10/2025 4:18:08 PM | Sam | 10/10/2025 4:18:49 PM | Peak Integrated by Software |
| VY1009SBS01 | VY023409.D | 1,2,3-Trichloropropane | MMDadoda | 10/10/2025 4:18:11 PM | Sam | 10/10/2025 4:18:52 PM | Peak Integrated by Software |
| VY1009SBSD01 | VY023410.D | 1,2,3-Trichloropropane | MMDadoda | 10/10/2025 4:18:12 PM | Sam | 10/10/2025 4:18:54 PM | Peak Integrated by Software |
| VSTDCCC050 | VY023422.D | 1,2,3-Trichloropropane | MMDadoda | 10/10/2025 4:18:17 PM | Sam | 10/10/2025 4:18:47 PM | Peak Integrated by Software |

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

**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY100725

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 10/10/2025 3:00:22 AM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 10/10/2025 4:38:02 AM | | | | |
| SubDirectory | VY100725 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y100725s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135766 |
| Initial Calibration Stds | VP135767,VP135768,VP135769,VP135770,VP135771,VP135772 |
| CCC | |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | VP135773 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY023383.D | 07 Oct 2025 08:43 | SY/MD | Ok |
| 2 | VSTDICC005 | VY023384.D | 07 Oct 2025 09:17 | SY/MD | Ok,M |
| 3 | VSTDICC010 | VY023385.D | 07 Oct 2025 10:02 | SY/MD | Ok,M |
| 4 | VSTDICC020 | VY023386.D | 07 Oct 2025 11:24 | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VY023387.D | 07 Oct 2025 11:47 | SY/MD | Ok,M |
| 6 | VSTDICC100 | VY023388.D | 07 Oct 2025 12:09 | SY/MD | Ok,M |
| 7 | VSTDICC150 | VY023389.D | 07 Oct 2025 12:32 | SY/MD | Ok,M |
| 8 | VIBLK | VY023390.D | 07 Oct 2025 13:02 | SY/MD | Ok |
| 9 | VSTDICV050 | VY023391.D | 07 Oct 2025 14:12 | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY100925

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 10/10/2025 4:18:26 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 10/10/2025 4:19:06 PM | | | | |
| SubDirectory | VY100925 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y100924s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135799 |
| Initial Calibration Stds | |
| CCC | VP135800,VP135801 |
| 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 | VY023406.D | 09 Oct 2025 08:16 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY023407.D | 09 Oct 2025 08:47 | SY/MD | Ok,M |
| 3 | VY1009SBL01 | VY023408.D | 09 Oct 2025 09:16 | SY/MD | Ok |
| 4 | VY1009SBS01 | VY023409.D | 09 Oct 2025 09:45 | SY/MD | Ok,M |
| 5 | VY1009SBSD01 | VY023410.D | 09 Oct 2025 10:08 | SY/MD | Ok,M |
| 6 | Q3315-01 | VY023411.D | 09 Oct 2025 10:36 | SY/MD | Dilution |
| 7 | Q3315-03 | VY023412.D | 09 Oct 2025 11:00 | SY/MD | ReRun |
| 8 | Q3313-01 | VY023413.D | 09 Oct 2025 11:23 | SY/MD | Not Ok |
| 9 | Q3318-01 | VY023414.D | 09 Oct 2025 11:47 | SY/MD | Ok |
| 10 | Q3319-01 | VY023415.D | 09 Oct 2025 12:10 | SY/MD | ReRun |
| 11 | Q3310-01 | VY023416.D | 09 Oct 2025 12:34 | SY/MD | Ok |
| 12 | Q3310-02 | VY023417.D | 09 Oct 2025 12:57 | SY/MD | Ok |
| 13 | Q3310-03 | VY023418.D | 09 Oct 2025 13:21 | SY/MD | Ok |
| 14 | Q3321-01 | VY023419.D | 09 Oct 2025 13:44 | SY/MD | Ok |
| 15 | Q3322-01 | VY023420.D | 09 Oct 2025 14:36 | SY/MD | Ok |
| 16 | VIBLK | VY023421.D | 09 Oct 2025 14:59 | SY/MD | Ok |
| 17 | VSTDCCC050 | VY023422.D | 09 Oct 2025 15:22 | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY100725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 10/10/2025 3:00:22 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 10/10/2025 4:38:02 AM | | |
| SubDirectory | VY100725 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y100725s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135766 |
| Initial Calibration Stds | VP135767,VP135768,VP135769,VP135770,VP135771,VP135772 |
| CCC | |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | VP135773 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY023383.D | 07 Oct 2025 08:43 | | SY/MD | Ok |
| 2 | VSTDICC005 | VSTDICC005 | VY023384.D | 07 Oct 2025 09:17 | | SY/MD | Ok,M |
| 3 | VSTDICC010 | VSTDICC010 | VY023385.D | 07 Oct 2025 10:02 | | SY/MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VY023386.D | 07 Oct 2025 11:24 | | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VY023387.D | 07 Oct 2025 11:47 | | SY/MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VY023388.D | 07 Oct 2025 12:09 | | SY/MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VY023389.D | 07 Oct 2025 12:32 | | SY/MD | Ok,M |
| 8 | VIBLK | VIBLK | VY023390.D | 07 Oct 2025 13:02 | | SY/MD | Ok |
| 9 | VSTDICV050 | ICVVY100725 | VY023391.D | 07 Oct 2025 14:12 | | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY100925

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 10/10/2025 4:18:26 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 10/10/2025 4:19:06 PM | | |
| SubDirectory | VY100925 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y100924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135799 |
| Initial Calibration Stds | |
| CCC | VP135800,VP135801 |
| 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 | VY023406.D | 09 Oct 2025 08:16 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY023407.D | 09 Oct 2025 08:47 | | SY/MD | Ok,M |
| 3 | VY1009SBL01 | VY1009SBL01 | VY023408.D | 09 Oct 2025 09:16 | | SY/MD | Ok |
| 4 | VY1009SBS01 | VY1009SBS01 | VY023409.D | 09 Oct 2025 09:45 | | SY/MD | Ok,M |
| 5 | VY1009SBSD01 | VY1009SBSD01 | VY023410.D | 09 Oct 2025 10:08 | | SY/MD | Ok,M |
| 6 | Q3315-01 | 314 | VY023411.D | 09 Oct 2025 10:36 | vial-A Internal Standard fail;Need MeOH | SY/MD | Dilution |
| 7 | Q3315-03 | 72-11989 | VY023412.D | 09 Oct 2025 11:00 | vial-A E flag of previous sample | SY/MD | ReRun |
| 8 | Q3313-01 | ETGI-360 | VY023413.D | 09 Oct 2025 11:23 | vial-A Internal Standard fail;Confirm concentration | SY/MD | Not Ok |
| 9 | Q3318-01 | VNJ-207 | VY023414.D | 09 Oct 2025 11:47 | vial-A | SY/MD | Ok |
| 10 | Q3319-01 | OK-01-100825 | VY023415.D | 09 Oct 2025 12:10 | vial-A Internal Standard fail | SY/MD | ReRun |
| 11 | Q3310-01 | SS-01-0-1 | VY023416.D | 09 Oct 2025 12:34 | vial-A | SY/MD | Ok |
| 12 | Q3310-02 | SS-01-1-2 | VY023417.D | 09 Oct 2025 12:57 | vial-A | SY/MD | Ok |
| 13 | Q3310-03 | SS-01-2-3 | VY023418.D | 09 Oct 2025 13:21 | vial-A | SY/MD | Ok |
| 14 | Q3321-01 | P001-DS-01 | VY023419.D | 09 Oct 2025 13:44 | vial-A | SY/MD | Ok |
| 15 | Q3322-01 | OR-02-100925 | VY023420.D | 09 Oct 2025 14:36 | vial-A | SY/MD | Ok |
| 16 | VIBLK | VIBLK | VY023421.D | 09 Oct 2025 14:59 | | SY/MD | Ok |
| 17 | VSTDCCC050 | VSTDCCC050EC | VY023422.D | 09 Oct 2025 15:22 | | SY/MD | Ok,M |

M : Manual Integration

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 10/10/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:10
**In Date:** 10/09/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 104
**Time OUT:** 08:40
**Out Date:** 10/10/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID-OVEN

**QC:** LB137480

| 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 |
|---|---|---|---|---|---|---|---|---|
| Q3300-01 | OIL | 1 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oil sample |
| Q3310-01 | SS-01-0-1 | 2 | 1.15 | 10.03 | 11.18 | 7.7 | 65.3 | |
| Q3310-02 | SS-01-1-2 | 3 | 1.12 | 10.62 | 11.74 | 8.81 | 72.4 | |
| Q3310-03 | SS-01-2-3 | 4 | 1.16 | 10.56 | 11.72 | 9.09 | 75.1 | |
| Q3321-01 | P001-DS-01 | 5 | 1.16 | 10.56 | 11.72 | 9.44 | 78.4 | |
| Q3322-01 | OR-02-100925 | 6 | 1.11 | 10.33 | 11.44 | 10.72 | 93.0 | |
| Q3322-02 | OR-02-100925-E2 | 7 | 1.12 | 11.11 | 12.23 | 11.55 | 93.9 | |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

VM137480

**WorkList Name :** %1-100925 **WorkList ID :** 192359 **Department :** Wet-Chemistry **Date :** 10-09-2025 08:08:47

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q3300-01 | OIL | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 10/07/2025 | Chemtech -SO |
| Q3310-01 | SS-01-0-1 | Solid | Percent Solids | Cool 4 deg C | LANG01 | D31 | 10/07/2025 | Chemtech -SO |
| Q3310-02 | SS-01-1-2 | Solid | Percent Solids | Cool 4 deg C | LANG01 | D31 | 10/07/2025 | Chemtech -SO |
| Q3310-03 | SS-01-2-3 | Solid | Percent Solids | Cool 4 deg C | LANG01 | D31 | 10/07/2025 | Chemtech -SO |
| Q3321-01 | P001-DS-01 | Solid | Percent Solids | Cool 4 deg C | ROYF02 | D41 | 10/08/2025 | Chemtech -SO |
| Q3322-01 | OR-02-100925 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | D31 | 10/09/2025 | Chemtech -SO |
| Q3322-02 | OR-02-100925-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | D31 | 10/09/2025 | Chemtech -SO |

**Date/Time** 10/09/25 15:10

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]



**Date/Time** 10/09/25 17:30

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

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# Prep Standard - Chemical Standard Summary

**Order ID :** Q3321

**Test :** VOC-TCLVOA-10

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** VY100925,

**Standard ID :**
VP133934,VP134147,VP134149,VP134150,VP134934,VP134957,VP135480,VP135481,VP135552,VP135553,VP135799,VP135800,VP135801,

**Chemical ID :**
V13391,V14200,V14204,V14205,V14290,V14509,V14510,V14531,V14532,V14625,V14636,V14637,V14638,V14639,V14673,V14727,V14728,V14803,V14815,V14844,V14906,V14921,V14928,V14929,V14951,V14952,V15066,V15067,V15068,W3112,

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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 |
|---|---|---|---|---|---|---|---|---|
| 252 | 8260 Working STD (BCM)-First source, 100PPM | VP134147 | 06/06/2025 | 12/06/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 06/10/2025 |

**FROM** 1.00000ml of V14673 + 19.00000ml of V14929 = 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 |
|---|---|---|---|---|---|---|---|---|
| 1810 | 8260 Working Std(2-CVE)-800ppm | VP134149 | 06/06/2025 | 12/06/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 06/10/2025 |

**FROM** 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = 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 | VP134150 | 06/06/2025 | 12/06/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 06/10/2025 |

**FROM** 7.50000ml of V14929 + 12.50000ml of VP134149 = 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 |
|---|---|---|---|---|---|---|---|---|
| 249 | 8260 Surrogate, 100PPM | VP134934 | 07/29/2025 | 01/29/2026 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 08/06/2025 |

**FROM** 0.10000ml of V14906 + 24.90000ml of V14625 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 218 | BFB, 25PPM | VP134957 | 08/01/2025 | 11/22/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 08/06/2025 |

**FROM** 0.50000ml of V13391 + 49.50000ml of V14625 = Final Quantity: 50.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 51 | 8260 Working STD (Acrolein) -first source, 800PPM | VP135480 | 09/16/2025 | 10/15/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 09/19/2025 |

**FROM** 1.00000ml of V15066 + 1.50000ml of V15067 + 1.50000ml of V15068 + 21.00000ml of V14625 = 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 | VP135481 | 09/16/2025 | 10/15/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 09/19/2025 |

**FROM** 5.62500ml of V14625 + 9.37500ml of VP135480 = 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 |
|---|---|---|---|---|---|---|---|---|
| 257 | 8260 Calibration Working STD Mix-First source, 160PPM | VP135552 | 09/22/2025 | 11/03/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 09/26/2025 |

**FROM** 0.40000ml of V14844 + 1.00000ml of V14200 + 1.00000ml of V14509 + 1.00000ml of V14510 + 1.00000ml of V14531 + 1.00000ml of V14532 + 1.00000ml of V14727 + 1.00000ml of V14728 + 1.00000ml of V14803 + 1.00000ml of V14815 + 1.00000ml of V14951 + 1.00000ml of V14952 + 1.50000ml of V14204 + 1.50000ml of V14205 + 10.60000ml of V14928 = 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 | VP135553 | 09/22/2025 | 11/03/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 09/26/2025 |

**FROM** 5.62500ml of V14928 + 9.37500ml of VP135552 = 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 |
|---|---|---|---|---|---|---|---|---|
| 732 | BFB TUNE CHECK - SOIL | VP135799 | 10/09/2025 | 10/10/2025 | Amit Patel | None | None | Mahesh Dadoda 10/13/2025 |

**FROM** 4.99800ml of W3112 + 0.00200ml of VP134957 = 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 | VP135800 | 10/09/2025 | 10/10/2025 | Amit Patel | None | None | Mahesh Dadoda 10/13/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135481 + 0.00250ml of VP135553 + 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 |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP135801 | 10/09/2025 | 10/10/2025 | Amit Patel | None | None | Mahesh Dadoda 10/13/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135481 + 0.00250ml of VP135553 + 0.00500ml of VP133934 = Final Quantity: 5.000 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 | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A0200785 | 03/22/2026 | 09/22/2025 / sam | 02/28/2024 / SAM | V14200 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A0200785 | 03/22/2026 | 09/22/2025 / sam | 02/28/2024 / SAM | V14204 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A0200785 | 03/22/2026 | 09/22/2025 / sam | 02/28/2024 / SAM | V14205 |

| 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 # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021624 | 03/22/2026 | 09/22/2025 / sam | 09/17/2024 / SAM | V14509 |

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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. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021624 | 03/22/2026 | 09/22/2025 / sam | 09/17/2024 / SAM | V14510 |

| 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 | 03/22/2026 | 09/22/2025 / sam | 09/18/2024 / SAM | V14531 |

| 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 | 03/22/2026 | 09/22/2025 / sam | 09/18/2024 / SAM | V14532 |

| 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 | 01/29/2026 | 07/29/2025 / SAM | 11/26/2024 / SAM | V14625 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025 | 06/06/2025 / SAM | 12/06/2024 / SAM | V14636 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025 | 06/06/2025 / SAM | 12/06/2024 / SAM | V14637 |

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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 # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025 | 06/06/2025 / SAM | 12/06/2024 / SAM | V14638 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025 | 06/06/2025 / SAM | 12/06/2024 / SAM | V14639 |

| 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 | A0214960 | 12/06/2025 | 06/06/2025 / SAM | 12/09/2024 / SAM | V14673 |

| 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 | 03/22/2026 | 09/22/2025 / sam | 12/17/2024 / SAM | V14727 |

| 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 | 03/22/2026 | 09/22/2025 / sam | 12/17/2024 / SAM | V14728 |

| 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 | 03/22/2026 | 09/22/2025 / sam | 01/08/2025 / SAM | V14803 |

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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 | 555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS | A0220471 | 03/22/2026 | 09/22/2025 / sam | 01/08/2025 / SAM | V14815 |

| 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 | 03/22/2026 | 09/22/2025 / sam | 01/21/2025 / SAM | V14844 |

| 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] | A0223904 | 07/29/2026 | 07/29/2025 / SAM | 03/24/2025 / SAM | V14906 |

| 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 |

| 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 | 03/22/2026 | 09/22/2025 / sam | 05/09/2025 / SAM | V14928 |

| 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 | 12/06/2025 | 06/06/2025 / SAM | 05/09/2025 / SAM | V14929 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0222076 | 03/22/2026 | 09/22/2025 / sam | 05/19/2025 / SAM | V14951 |

| 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 | A0222076 | 03/22/2026 | 09/22/2025 / sam | 05/19/2025 / SAM | V14952 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 091525 | 10/15/2025 | 09/16/2025 / sam | 09/16/2025 / sam | V15066 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 091525 | 10/15/2025 | 09/16/2025 / sam | 09/16/2025 / sam | V15067 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 091525 | 10/15/2025 | 09/16/2025 / sam | 09/16/2025 / sam | V15068 |

| 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

**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

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

| Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(ug/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | 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 846mg/kg |
| 19. cis-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 156-59-2 | N/A | N/A |
| 20. trans-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 156-60-5 | N/A | orl-rat 1235mg/kg |
| 21. Methylene chloride | 35171 | 101623 | 0.05 | 5.00 | 40002.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-09-2 | 500 ppm | orl-rat 820mg/kg |
| 22. 1,1-Dichloroethene | 32251 | 102023 | 0.10 | 10.00 | 20001.6 | 2000 | NA | NA | 0.042 | NA | NA | 1999.7 | 20.4 | 75-35-4 | 1 ppm (4mg/m3/8H) | orl-rat 200mg/kg |
| 23. Bromoform | 95321 | 020724 | 0.10 | 10.00 | 20003.2 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-25-2 | 0.5 ppm (5mg/m3) (skin) | orl-rat 933mg/kg |
| 24. Carbon tetrachloride | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 56-23-5 | 2 ppm (12.6mg/m3/8H) | orl-rat 2350mg/kg |
| 25. Chloroform | 95321 | 020724 | 0.10 | 10.00 | 20024.0 | 2000 | NA | NA | 0.042 | NA | NA | 2001.9 | 20.5 | 67-66-3 | 50 ppm (240mg/m3) (CL) | orl-rat 908mg/kg |
| 26. Dibromomethane | 95321 | 020724 | 0.10 | 10.00 | 20002.9 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 74-95-3 | N/A | orl-rat 108mg/kg |
| 27. 1,1-Dichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-34-3 | 100 ppm | orl-rat 725mg/kg |
| 28. 2,2-Dichloropropane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 594-20-7 | N/A | N/A |
| 29. Tetrachloroethene | 95321 | 020724 | 0.10 | 10.00 | 20201.1 | 2000 | NA | NA | 0.042 | NA | NA | 2019.6 | 20.6 | 127-18-4 | 25 ppm (170mg/m3/8H)(final) | orl-rat 2629mg/kg |
| 30. 1,1,1-Trichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 71-55-6 | 350 ppm (1900mg/m3/8H) | orl-rat 10300mg/kg |
| 31. 1,2-Dibromo-3-chloropropane | 35161 | 112322 | 0.05 | 5.00 | 40016.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.3 | 22.9 | 96-12-8 | 0.001 ppm | orl-rat 170mg/kg |
| 32. 1,2-Dibromoethane | 35161 | 112322 | 0.05 | 5.00 | 40024.8 | 2000 | NA | NA | 0.017 | NA | NA | 2000.7 | 22.9 | 106-93-4 | 20 ppm (8H) | orl-rat 108mg/kg |
| 33. 1,2-Dichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40018.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 22.9 | 107-06-2 | 50 ppm (8H) | orl-rat 670mg/kg |
| 34. 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40051.0 | 2000 | NA | NA | 0.017 | NA | NA | 2002.0 | 22.9 | 78-87-5 | 75 ppm (350mg/m3/8H) | orl-rat 1947mg/kg |
| 35. 1,3-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40005.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 142-28-9 | N/A | unr-mus 3600mg/kg |
| 36. 1,1-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40012.1 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 29.7 | 563-58-6 | N/A | N/A |
| 37. cis-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40010.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.0 | 23.0 | 10061-01-5 | N/A | N/A |
| 38. trans-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40017.6 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 23.0 | 10061-02-6 | N/A | N/A |
| 39. Hexachloro-1,3-butadiene | 35161 | 112322 | 0.05 | 5.00 | 40021.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.6 | 29.7 | 87-68-3 | 0.02 ppm (0.24mg/m3/8H) | orl-rat 82mg/kg |
| 40. 1,1,1,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40011.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 22.9 | 630-20-6 | N/A | orl-rat 670mg/kg |
| 41. 1,1,2,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 79-34-5 | 5 ppm (35mg/m3/8H)(skin) | orl-rat 800mg/kg |
| 42. 1,1,2-Trichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40006.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 23.0 | 79-00-5 | 10 ppm (45mg/m3/8H)(skin) | orl-rat 836mg/kg |
| 43. Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 79-01-6 | 50 ppm (270mg/m3/8H) | orl-mus 2402mg/kg |
| 44. 1,2,3-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 96-18-4 | 10 ppm (60mg/m3/8H) | orl-rat 149.6mg/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 | 40000.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 106-42-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |

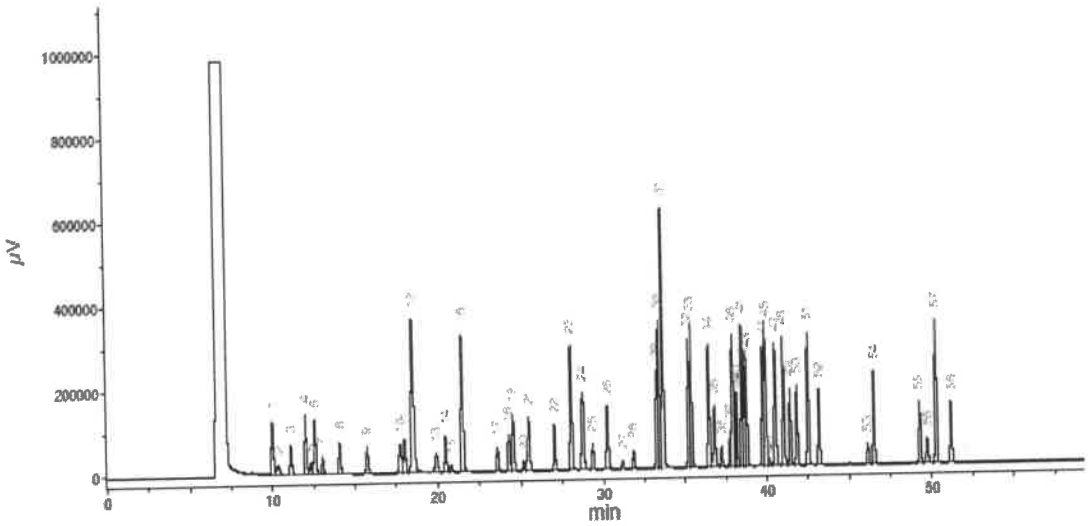
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty 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 | 41.12 |
| 50 | 1,4-Dichlorobenzene | 41.63 |
| 51 | n-Butylbenzene | 42.52 |
| 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 | 50.46 |
| 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)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

**Certified Reference Material CRM**

Rec 09/17/24

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

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

| Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(ug/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | 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 846mg/kg |
| 19. cis-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 156-59-2 | N/A | N/A |
| 20. trans-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 156-60-5 | N/A | orl-rat 1235mg/kg |
| 21. Methylene chloride | 35171 | 101623 | 0.05 | 5.00 | 40002.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-09-2 | 500 ppm | orl-rat 820mg/kg |
| 22. 1,1-Dichloroethene | 32251 | 102023 | 0.10 | 10.00 | 20001.6 | 2000 | NA | NA | 0.042 | NA | NA | 1999.7 | 20.4 | 75-35-4 | 1 ppm (4mg/m3/8H) | orl-rat 200mg/kg |
| 23. Bromoform | 95321 | 020724 | 0.10 | 10.00 | 20003.2 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-25-2 | 0.5 ppm (5mg/m3) (skin) | orl-rat 933mg/kg |
| 24. Carbon tetrachloride | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 56-23-5 | 2 ppm (12.6mg/m3/8H) | orl-rat 2350mg/kg |
| 25. Chloroform | 95321 | 020724 | 0.10 | 10.00 | 20024.0 | 2000 | NA | NA | 0.042 | NA | NA | 2001.9 | 20.5 | 67-66-3 | 50 ppm (240mg/m3) (CL) | orl-rat 908mg/kg |
| 26. Dibromomethane | 95321 | 020724 | 0.10 | 10.00 | 20002.9 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 74-95-3 | N/A | orl-rat 108mg/kg |
| 27. 1,1-Dichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-34-3 | 100 ppm | orl-rat 725mg/kg |
| 28. 2,2-Dichloropropane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 594-20-7 | N/A | N/A |
| 29. Tetrachloroethene | 95321 | 020724 | 0.10 | 10.00 | 20201.1 | 2000 | NA | NA | 0.042 | NA | NA | 2019.6 | 20.6 | 127-18-4 | 25 ppm (170mg/m3/8H)(final) | orl-rat 2629mg/kg |
| 30. 1,1,1-Trichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 71-55-6 | 350 ppm (1900mg/m3/8H) | orl-rat 10300mg/kg |
| 31. 1,2-Dibromo-3-chloropropane | 35161 | 112322 | 0.05 | 5.00 | 40016.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.3 | 22.9 | 96-12-8 | 0.001 ppm | orl-rat 170mg/kg |
| 32. 1,2-Dibromoethane | 35161 | 112322 | 0.05 | 5.00 | 40024.8 | 2000 | NA | NA | 0.017 | NA | NA | 2000.7 | 22.9 | 106-93-4 | 20 ppm (8H) | orl-rat 108mg/kg |
| 33. 1,2-Dichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40018.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 22.9 | 107-06-2 | 50 ppm (8H) | orl-rat 670mg/kg |
| 34. 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40051.0 | 2000 | NA | NA | 0.017 | NA | NA | 2002.0 | 22.9 | 78-87-5 | 75 ppm (350mg/m3/8H) | orl-rat 1947mg/kg |
| 35. 1,3-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40005.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 142-28-9 | N/A | unr-mus 3600mg/kg |
| 36. 1,1-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40012.1 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 29.7 | 563-58-6 | N/A | N/A |
| 37. cis-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40010.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.0 | 23.0 | 10061-01-5 | N/A | N/A |
| 38. trans-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40017.6 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 23.0 | 10061-02-6 | N/A | N/A |
| 39. Hexachloro-1,3-butadiene | 35161 | 112322 | 0.05 | 5.00 | 40021.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.6 | 29.7 | 87-68-3 | 0.02 ppm (0.24mg/m3/8H) | orl-rat 82mg/kg |
| 40. 1,1,1,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40011.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 22.9 | 630-20-6 | N/A | orl-rat 670mg/kg |
| 41. 1,1,2,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 79-34-5 | 5 ppm (35mg/m3/8H)(skin) | orl-rat 800mg/kg |
| 42. 1,1,2-Trichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40006.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 23.0 | 79-00-5 | 10 ppm (45mg/m3/8H)(skin) | orl-rat 836mg/kg |
| 43. Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 79-01-6 | 50 ppm (270mg/m3/8H) | orl-mus 2402mg/kg |
| 44. 1,2,3-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 96-18-4 | 10 ppm (60mg/m3/8H) | orl-rat 149.6mg/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 | 40000.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 106-42-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |

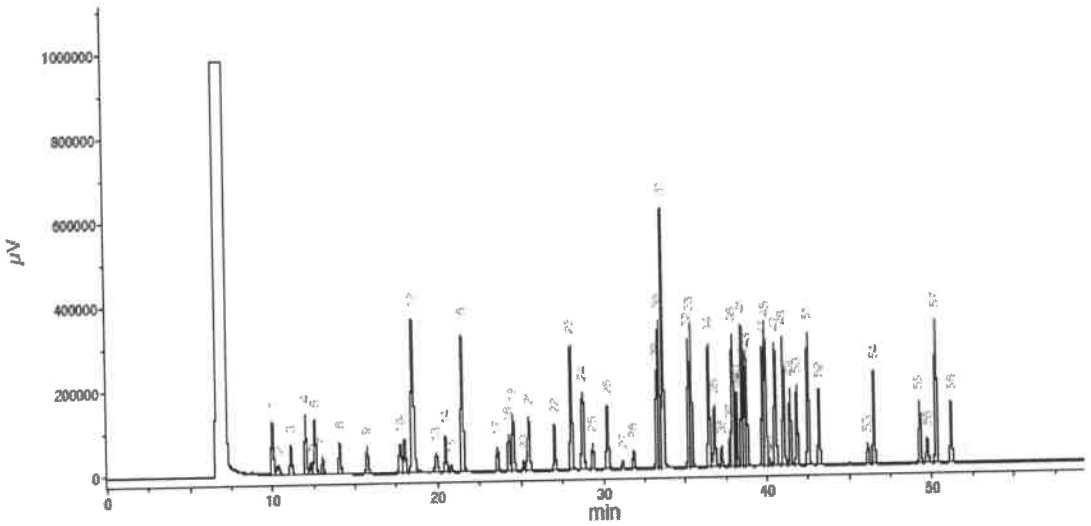
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty 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 | 41.12 |
| 50 | 1,4-Dichlorobenzene | 41.63 |
| 51 | n-Butylbenzene | 42.52 |
| 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 | 50.46 |
| 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)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

**Solvent(s):** **Lot#**
Water 072324Q

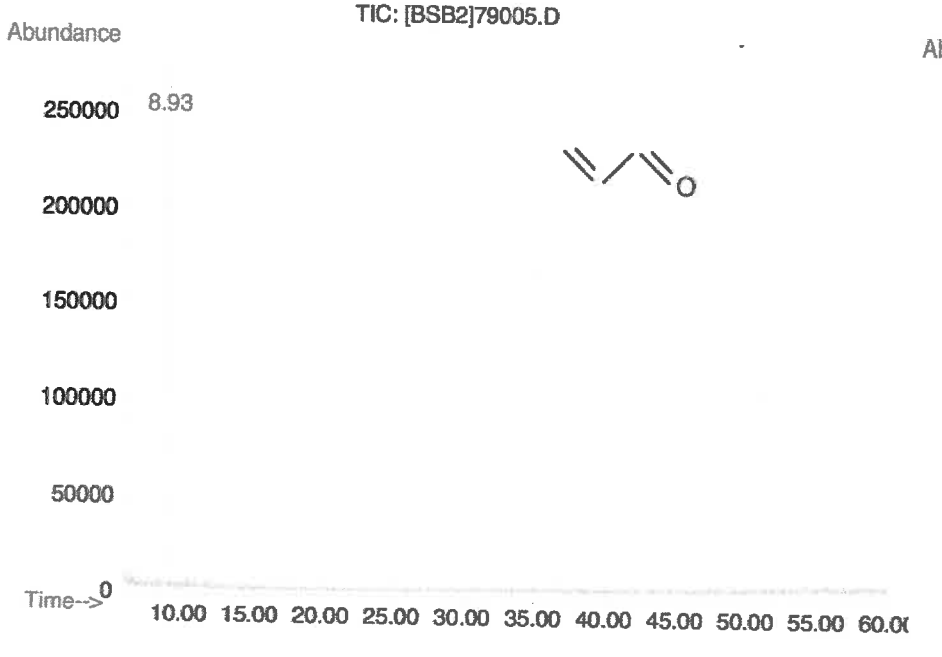
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

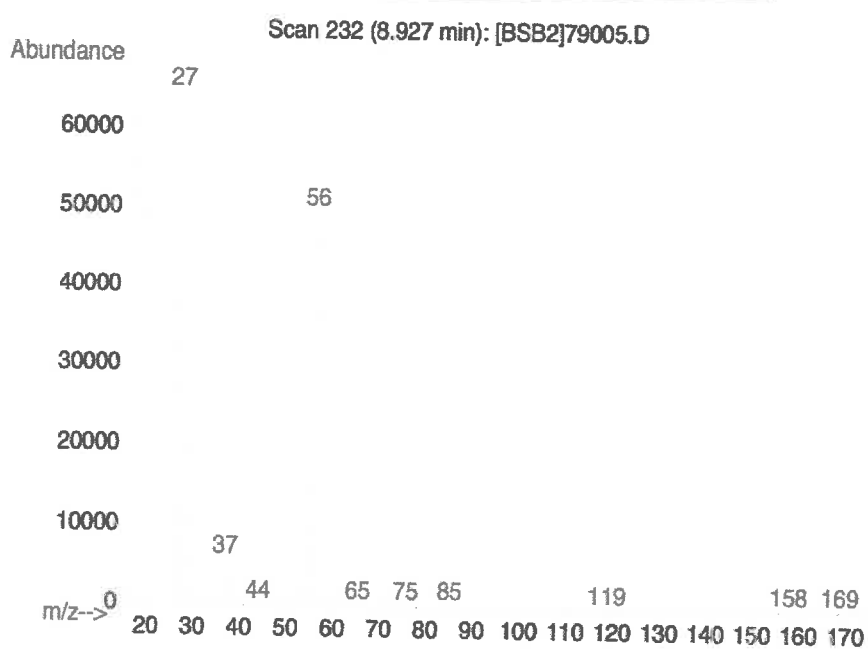
Formulated By: Justin Dippold 091424 DATE

Reviewed By: Pedro L. Rentas 091424 DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05175 | 5008.9 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

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- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
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***Certified Reference Material CRM***

Rec 09/16/24 2 Vials

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## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

**Solvent(s):** **Lot#**
Water 072324Q

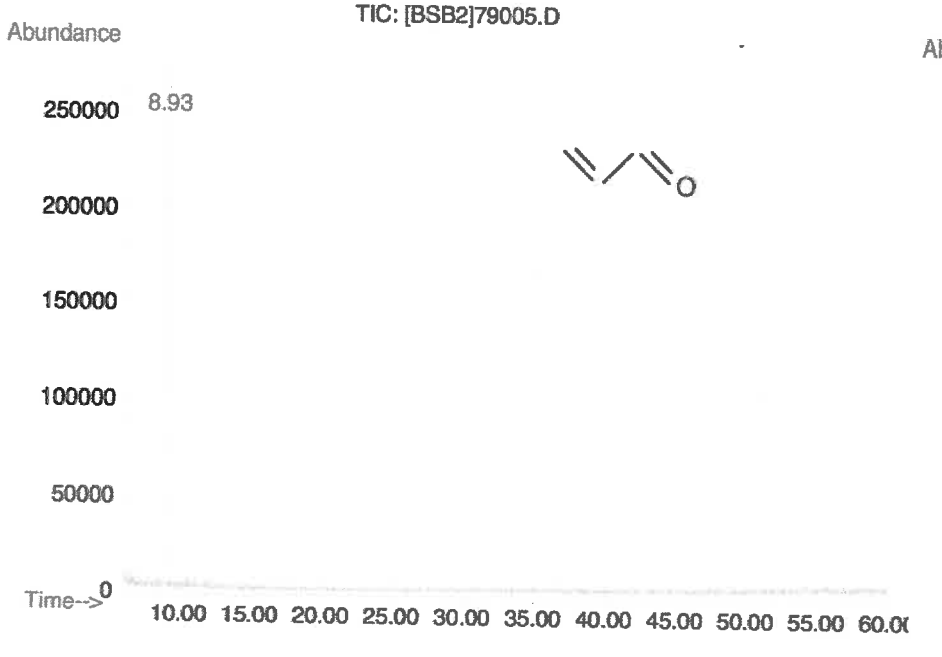
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

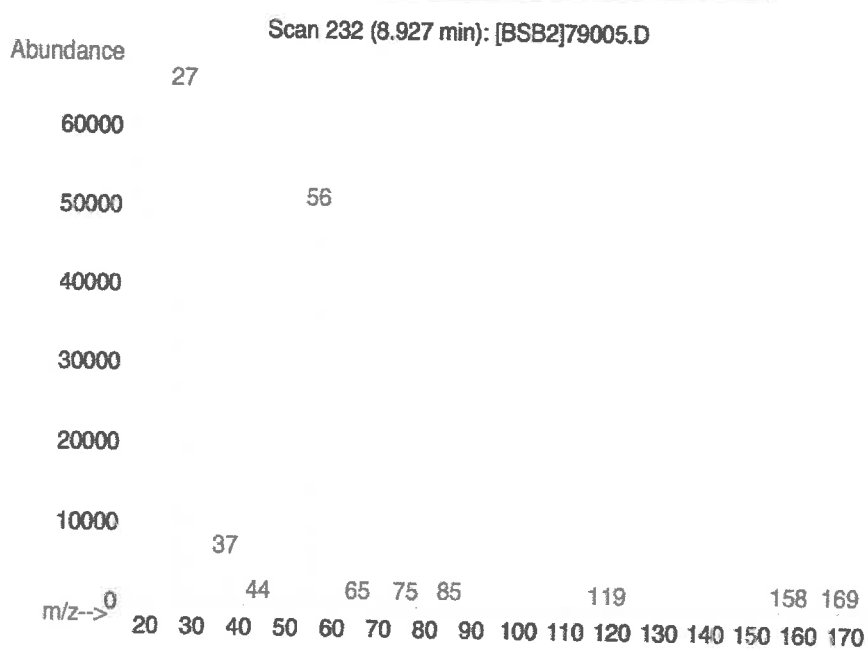
Formulated By: Justin Dippold 091424 DATE

Reviewed By: Pedro L. Rentas 091424 DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05175 | 5008.9 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

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***Certified Reference Material CRM***

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

**Solvent(s):** Methanol **Lot#** EJ143-US

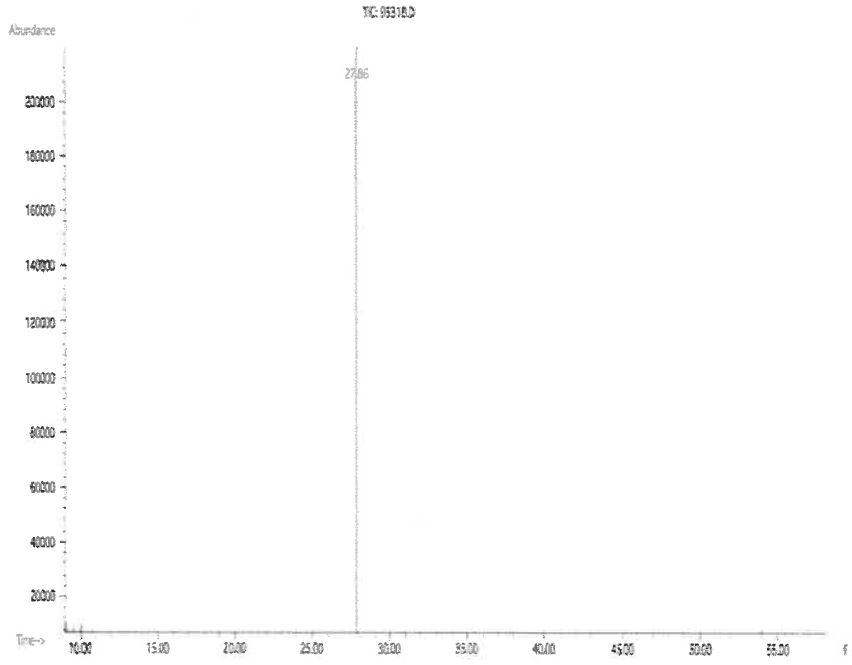
V14630 to V14649

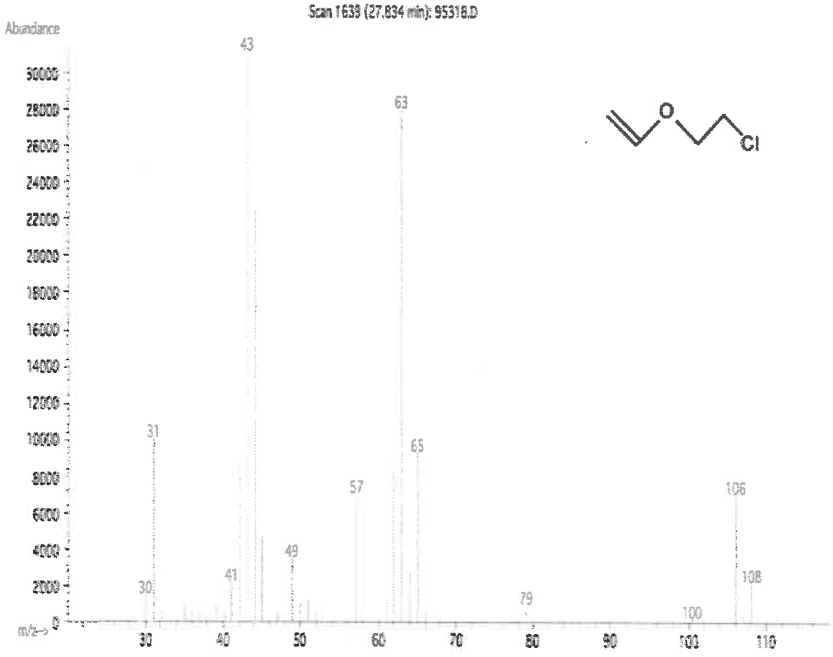
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| Formulated By: | Prashant Chauhan | 120524 DATE |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 120524 DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

**Absolute Standards, Inc.**
800-368-1131
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***Certified Reference Material CRM***

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

**Solvent(s):** Methanol **Lot#** EJ143-US

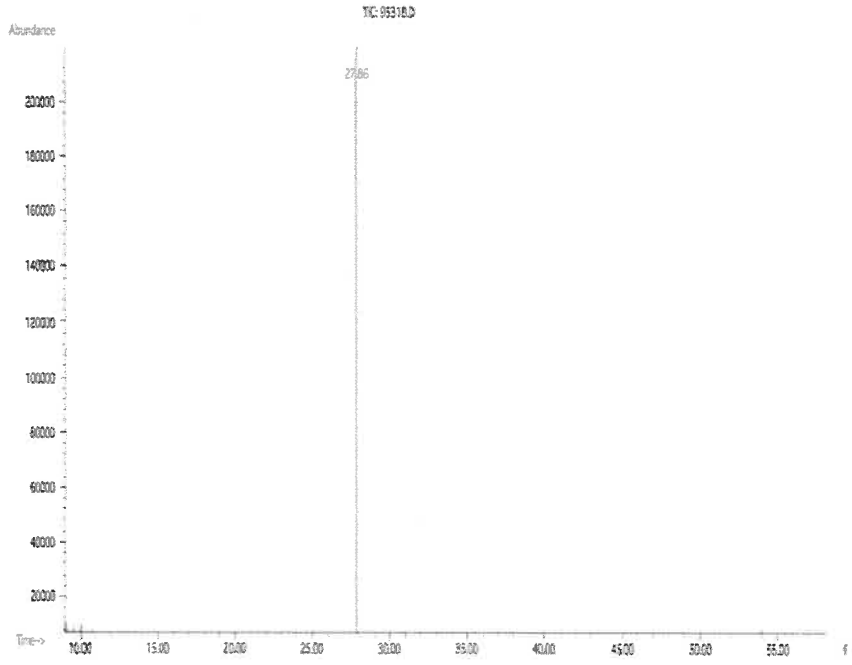
V14630 to V14649

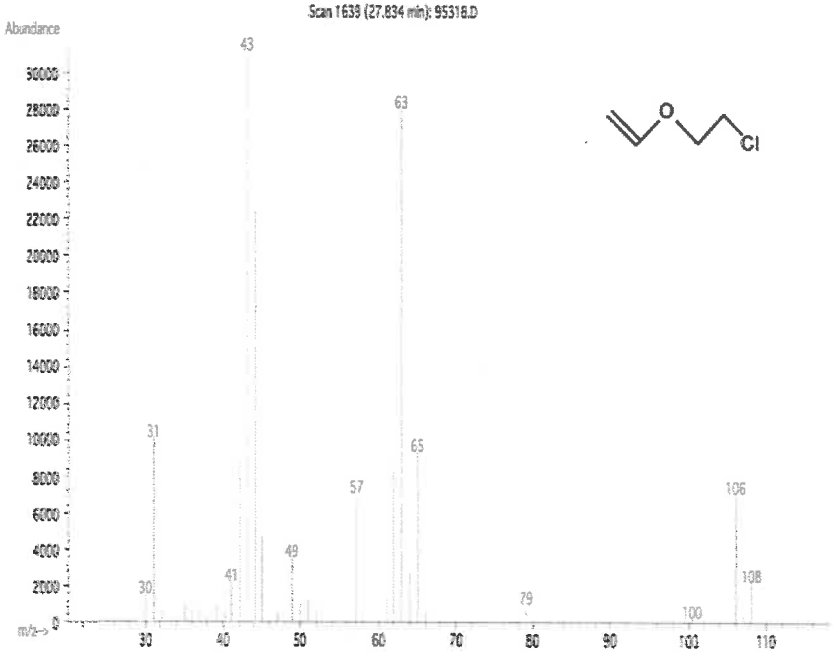
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| Formulated By: | Prashant Chauhan | 120524 DATE |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 120524 DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
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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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Rec 12/6/24
20 vial

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## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

**Solvent(s):** Methanol **Lot#** EJ143-US

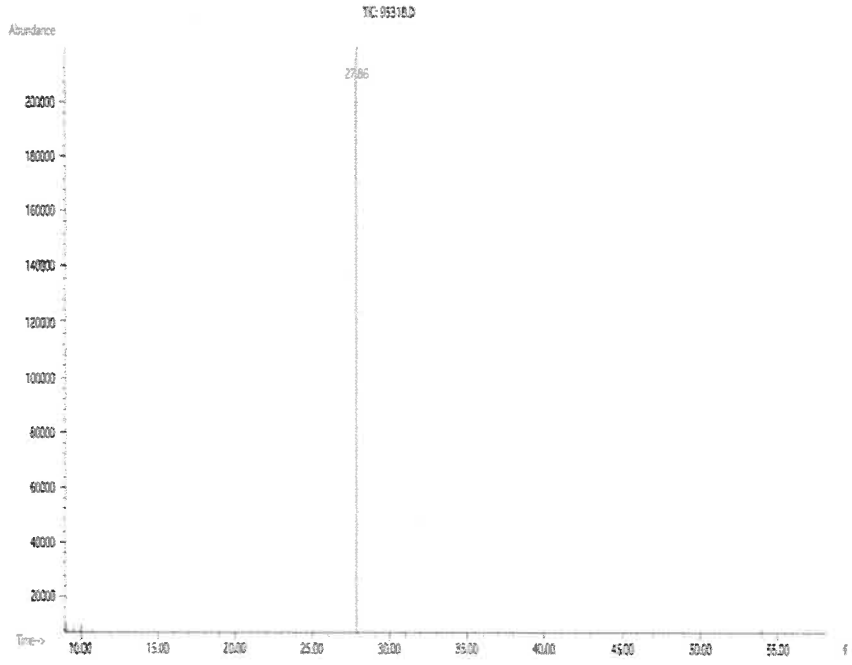
V14630 to V14649

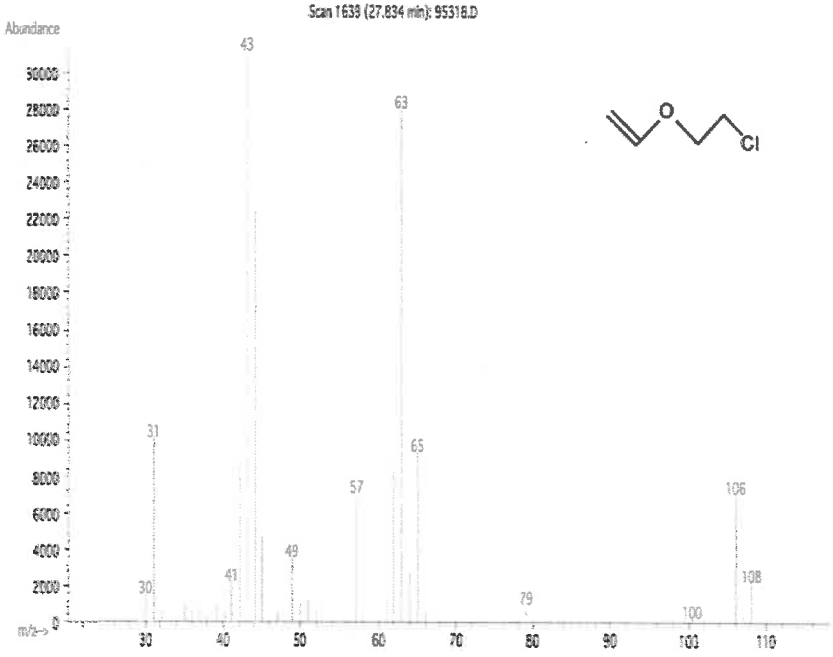
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| Formulated By: | Prashant Chauhan | 120524 DATE |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 120524 DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







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**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
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| | |
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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

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

**Solvent(s):** Methanol **Lot#** EJ143-US

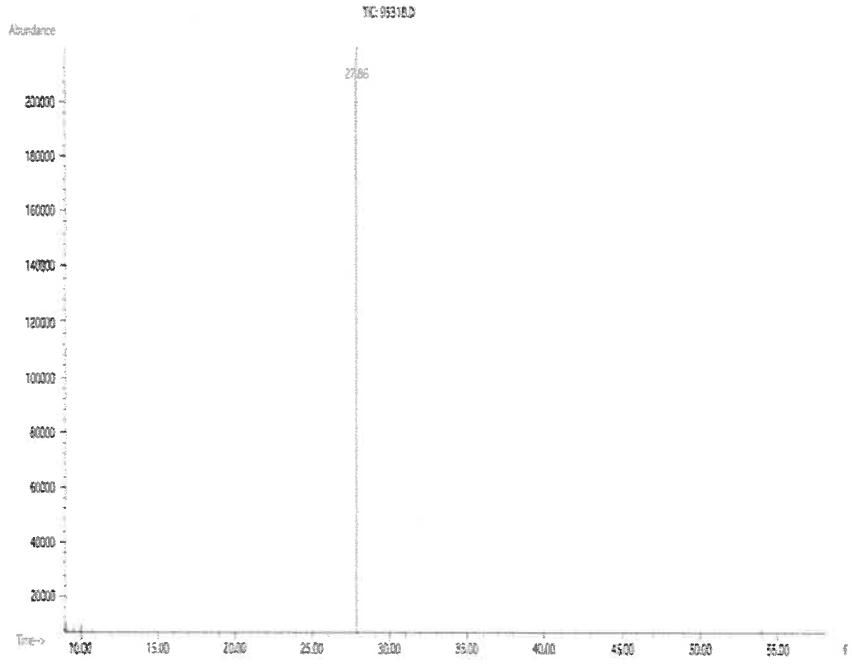
V14630 to V14649

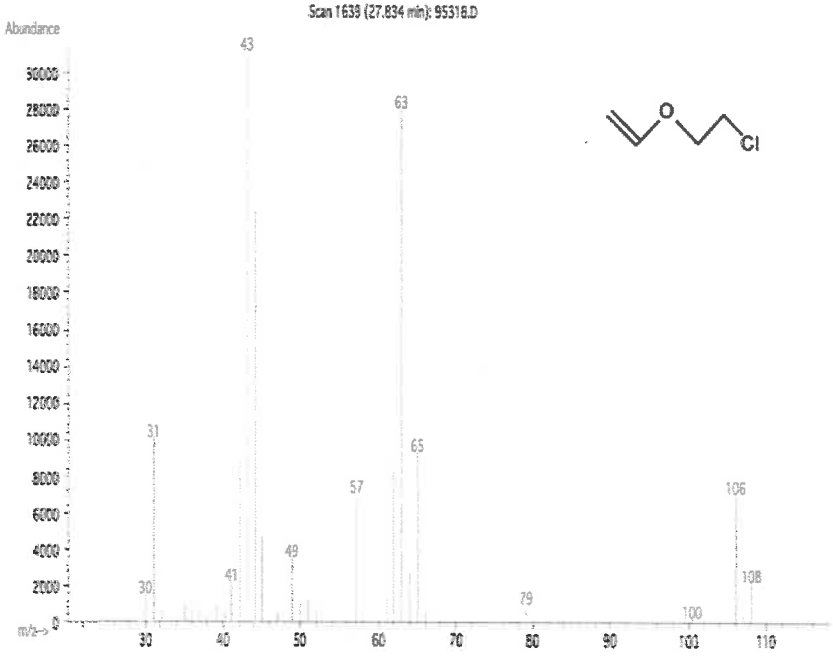
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| Formulated By: | Prashant Chauhan | 120524 DATE |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 120524 DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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.)

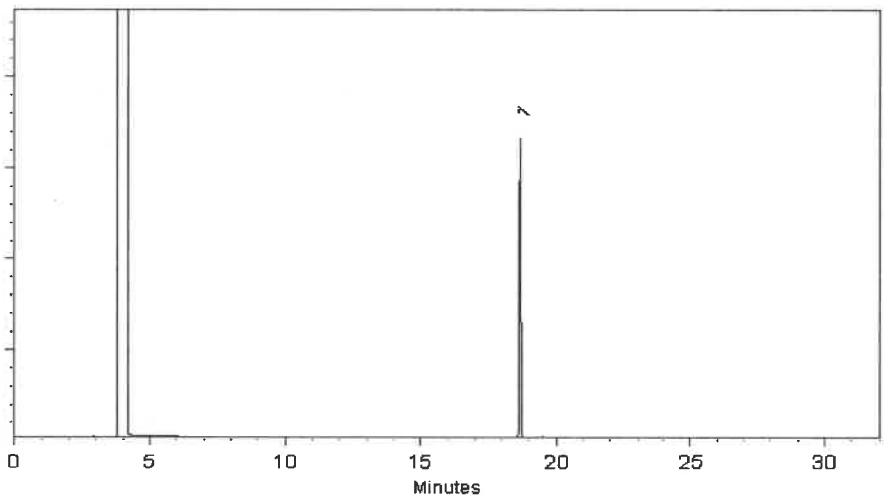
**Inj. Temp:**
200°C

**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.

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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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.:** A0200785

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2026 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBP8774 | 99% | 5,018.5 µg/mL | +/- 173.4162 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBL5543 | 99% | 5,016.0 µg/mL | +/- 173.3298 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP4724 | 99% | 5,010.7 µg/mL | +/- 173.1455 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,015.0 µg/mL | +/- 173.2952 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)
**CAS #** 67-56-1/7732-18-5
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

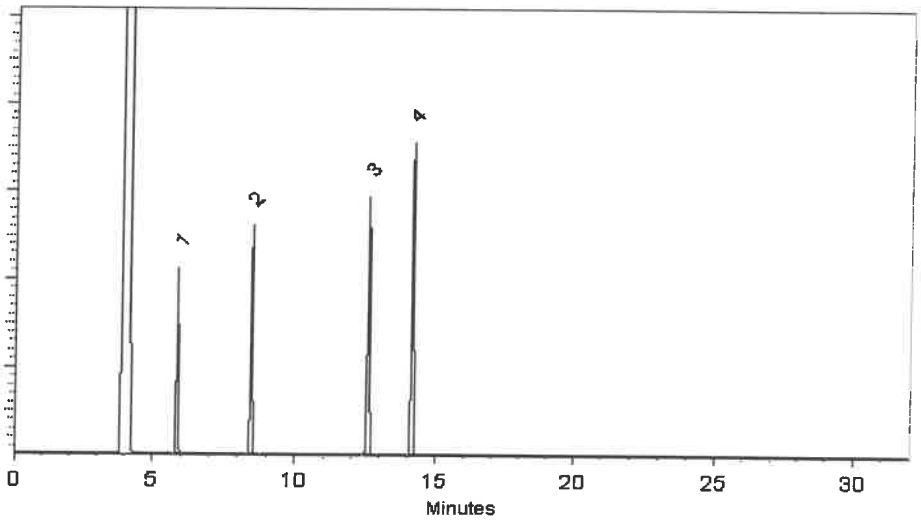
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

**Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

**Date Passed:** 16-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0200785

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2026 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
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| 2 | 2-Butanone (MEK) | 78-93-3 | SHBL5543 | 99% | 5,016.0 µg/mL | +/- 173.3298 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP4724 | 99% | 5,010.7 µg/mL | +/- 173.1455 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,015.0 µg/mL | +/- 173.2952 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)
**CAS #** 67-56-1/7732-18-5
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

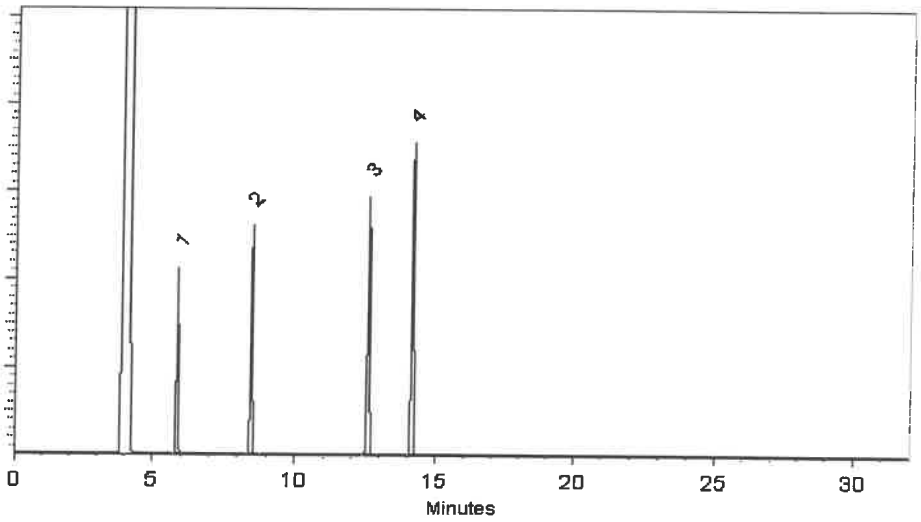
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

**Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

**Date Passed:** 16-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0200785

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2026 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBP8774 | 99% | 5,018.5 µg/mL | +/- 173.4162 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBL5543 | 99% | 5,016.0 µg/mL | +/- 173.3298 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP4724 | 99% | 5,010.7 µg/mL | +/- 173.1455 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,015.0 µg/mL | +/- 173.2952 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)
**CAS #** 67-56-1/7732-18-5
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

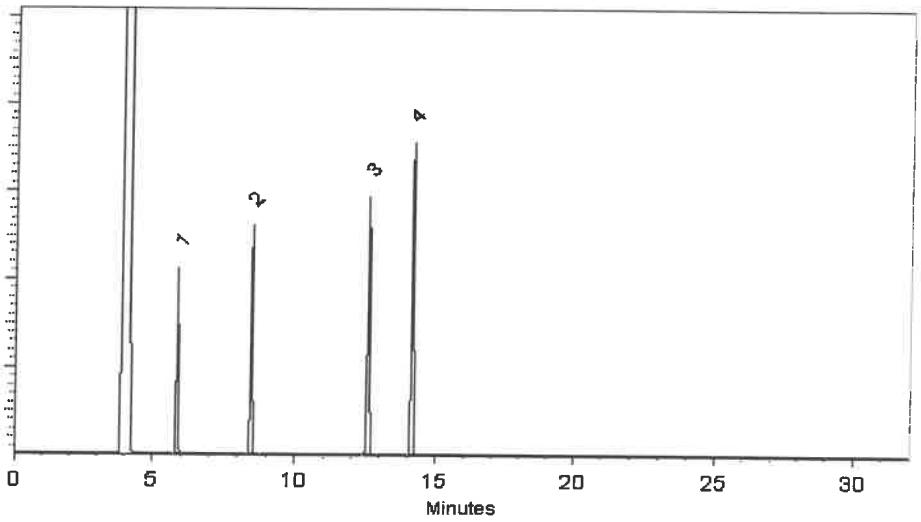
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

**Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

**Date Passed:** 16-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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# Certificate of Analysis

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Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555581 **Lot No.:** A0210184

**Description :** Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2027 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 3855-82-1 | PR-30447 | 99% | 25,212.0 µg/mL | +/- 1,427.8857 |
| 2 | 1,4-Difluorobenzene | 540-36-3 | MKCS8657 | 99% | 25,220.0 µg/mL | +/- 1,428.3388 |
| 3 | Chlorobenzene-d5 | 3114-55-4 | PR-31132 | 99% | 25,116.0 µg/mL | +/- 1,422.4487 |
| 4 | Pentafluorobenzene | 363-72-4 | MKCR9383 | 99% | 25,180.0 µg/mL | +/- 1,426.0734 |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

John Friedline - Operations Technician I

**Date Mixed:** 11-Apr-2024 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

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- 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:

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- Purity values are rounded to the nearest whole number.

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

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### Handling Notes:

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Dec: 12/09/24

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30225 **Lot No.:** A0214960

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2029 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Bromochloromethane | 74-97-5 | SYN240416CTH | 99% | 2,012.0 µg/mL | +/- 113.0519 |

* 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.)

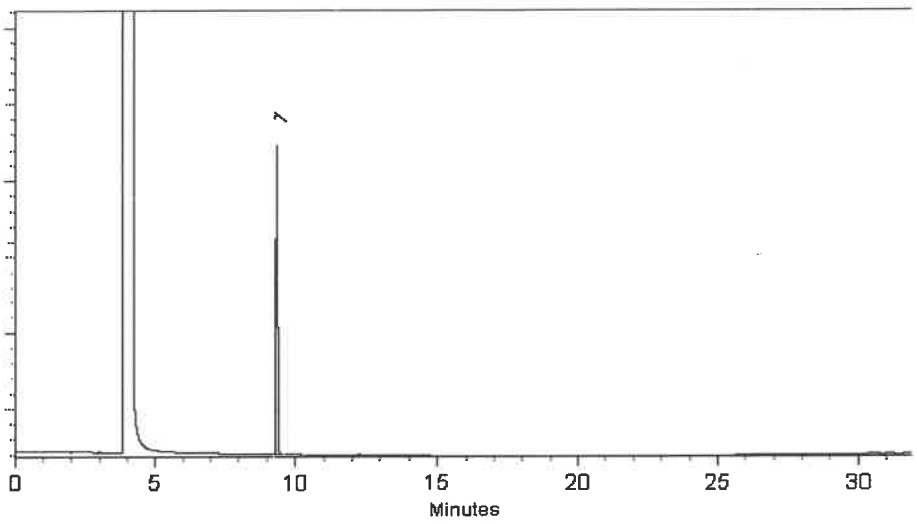
**Inj. Temp:**
200°C

**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.

Stacey Wanner - Operations Technician I

**Date Mixed:** 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 14-Aug-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 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.

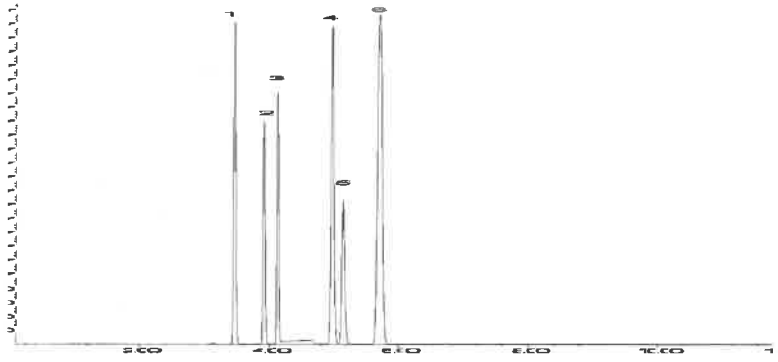
**Inj. Temp:**
200°C

**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:

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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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Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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**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.

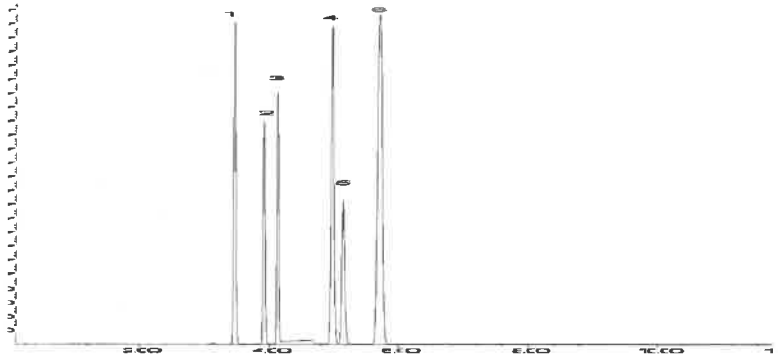
**Inj. Temp:**
200°C

**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.
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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.

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## Manufacturing Notes:

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

J14842 to 14846

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30470 **Lot No.:** 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.)

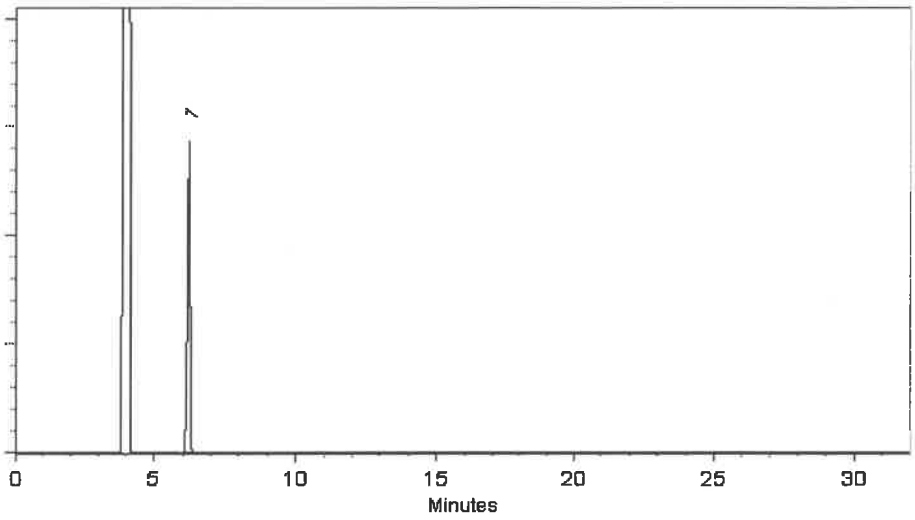
**Inj. Temp:**
200°C

**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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Zoviny Rec 01/08/21

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic*

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555408-SL **Lot No.:** A0220471

**Description :** Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2026 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Vinyl acetate | 108-05-4 | RD240423RSR | 99% | 8,066.0 µg/mL | +/- 278.7979 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

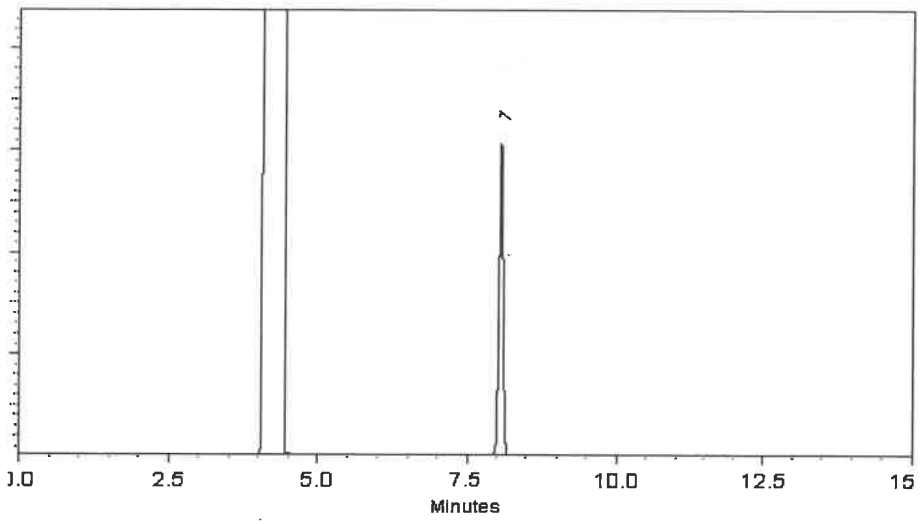
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

**Date Mixed:** 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

**Date Passed:** 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Zoviny Rec 01/08/21

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic*

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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**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.)

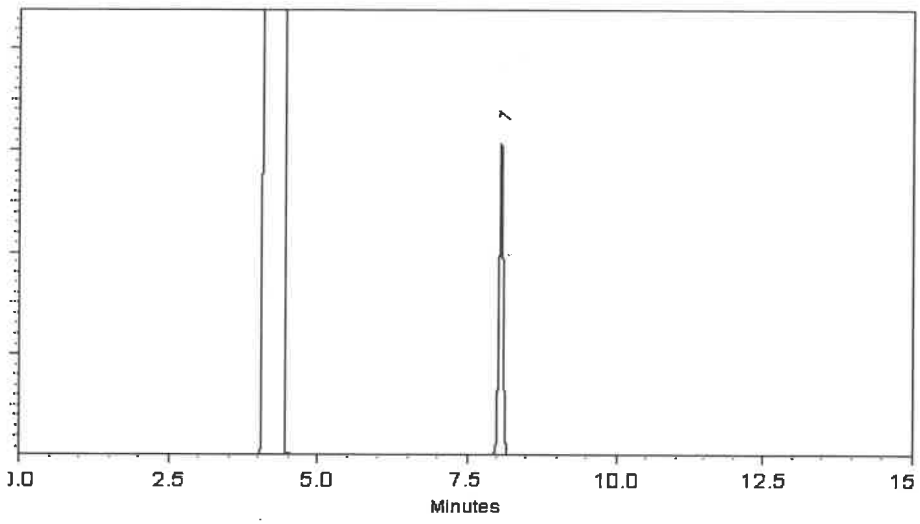
**Inj. Temp:**
200°C

**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:

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## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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10 vial

# CERTIFIED REFERENCE MATERIAL

Lee 03/31/25

# Certificate of Analysis

***gravimetric***

V14904 to V14913

ilac-MRA
A2LA ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
A2LA ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555582 **Lot No.:** A0223904

**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 :** March 31, 2028 **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-33313 | 99% | 25,108.0 µg/mL | +/- 1,421.9957 |
| 2 | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4 | 0000268853 | 99% | 25,108.0 µg/mL | +/- 1,421.9957 |
| 3 | Dibromofluoromethane | 1868-53-7 | VENKAT02 | 99% | 25,232.0 µg/mL | +/- 1,429.0184 |
| 4 | Toluene-d8 | 2037-26-5 | PR-34141 | 99% | 25,156.0 µg/mL | +/- 1,424.7141 |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

Brittany Federinko - Operations Tech I

**Date Mixed:** 27-Mar-2025 **Balance:** B251644995

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

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## 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.
- 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

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 |
|---|---|---|
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| 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
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Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

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
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For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Rec 05/19/25

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL
20 Vial

# Certificate of Analysis

***chromatographic plus***

VJ14951 to VJ14970

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.:** A0222076

**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 :** August 31, 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 | Methyl acetate | 79-20-9 | SHBR1889 | 99% | 2,004.0 µg/mL | +/- 69.2674 |
| 2 | Vinyl acetate | 108-05-4 | RD240423RSR | 99% | 2,010.0 µg/mL | +/- 69.4748 |
| 3 | Ethyl acetate | 141-78-6 | SHBS3323 | 99% | 2,019.3 µg/mL | +/- 69.7974 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 5 | Propyl acetate | 109-60-4 | P8XLN | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 6 | Butyl acetate | 123-86-4 | SHBR2024 | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 7 | Amyl acetate | 628-63-7 | BCBT7442 | 99% | 2,006.7 µg/mL | +/- 69.3596 |

* 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

Rec 05/19/25

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CERTIFIED REFERENCE MATERIAL
20 Vial

# Certificate of Analysis

***chromatographic plus***

VJ14951 to VJ14970

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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**Catalog No. :** 30489 **Lot No.:** A0222076

**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 :** August 31, 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 | Methyl acetate | 79-20-9 | SHBR1889 | 99% | 2,004.0 µg/mL | +/- 69.2674 |
| 2 | Vinyl acetate | 108-05-4 | RD240423RSR | 99% | 2,010.0 µg/mL | +/- 69.4748 |
| 3 | Ethyl acetate | 141-78-6 | SHBS3323 | 99% | 2,019.3 µg/mL | +/- 69.7974 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 5 | Propyl acetate | 109-60-4 | P8XLN | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 6 | Butyl acetate | 123-86-4 | SHBR2024 | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 7 | Amyl acetate | 628-63-7 | BCBT7442 | 99% | 2,006.7 µg/mL | +/- 69.3596 |

* 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

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800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

Rec 09/16/25 5 vial

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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

| | |
|---|---|
| **Part Number:** | 91980 |
| Lot Number: | 091525 |
| Description: | Acrolein |
| Expiration Date: | 101525 |
| Recommended Storage: | Refrigerate (2°C to 8°C) |
| Nominal Concentration (µg/mL): | 5000 |
| NIST Test ID#: | 6UTB |

**Solvent(s):** Water **Lot#** 041725Q

V15064 to V15068

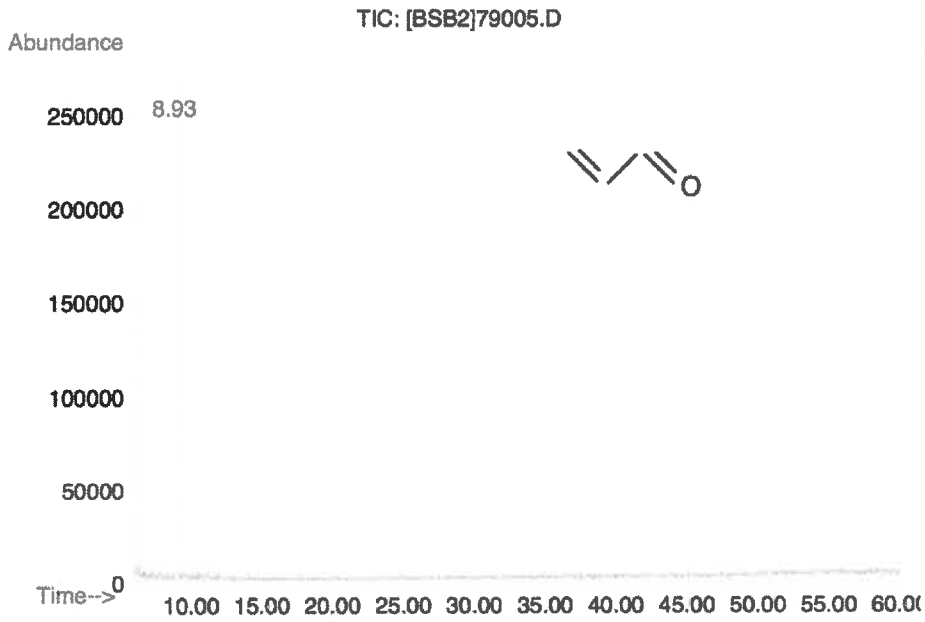
5E-05 Balance Uncertainty

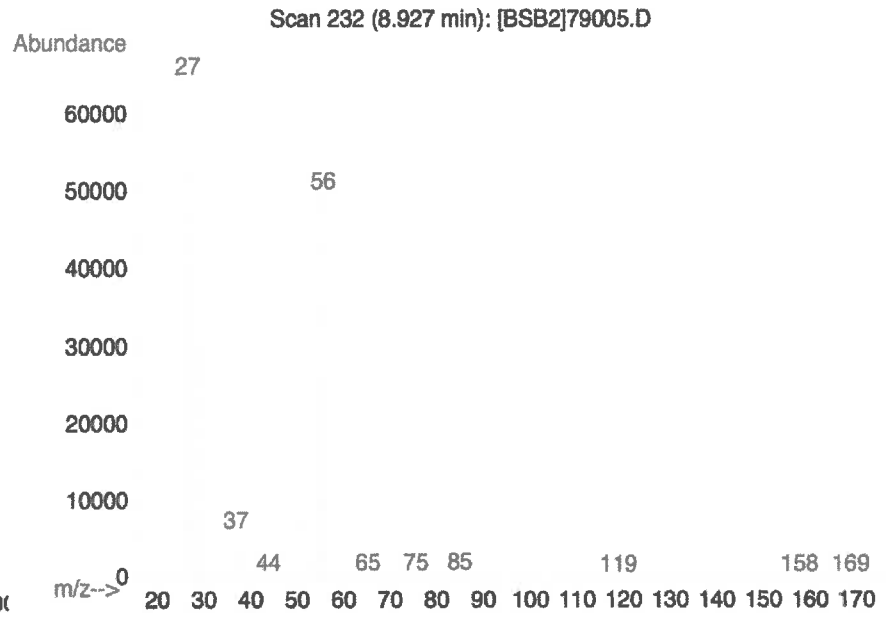
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

| | |
|---|---|
| | 091525 |
| Formulated By: Anthony Mahoney | DATE |
| | 091525 |
| 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 | 0.05176 | 5009.9 | 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 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).**

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Rec 09/16/25 5 vial

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https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

| | |
|---|---|
| **Part Number:** | 91980 |
| Lot Number: | 091525 |
| Description: | Acrolein |
| Expiration Date: | 101525 |
| Recommended Storage: | Refrigerate (2°C to 8°C) |
| Nominal Concentration (µg/mL): | 5000 |
| NIST Test ID#: | 6UTB |

**Solvent(s):** Water **Lot#** 041725Q

V15064 to V15068

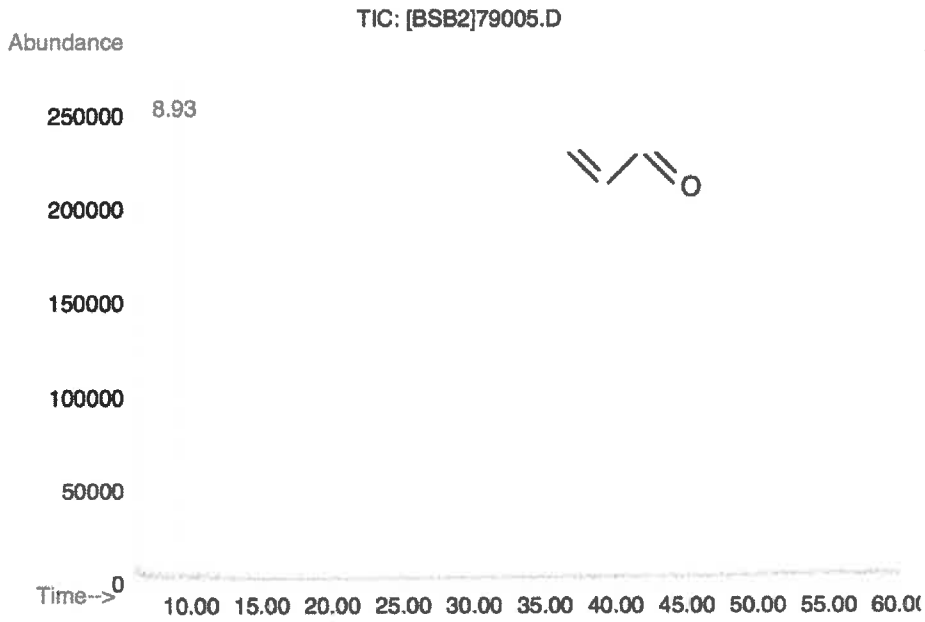
5E-05 Balance Uncertainty

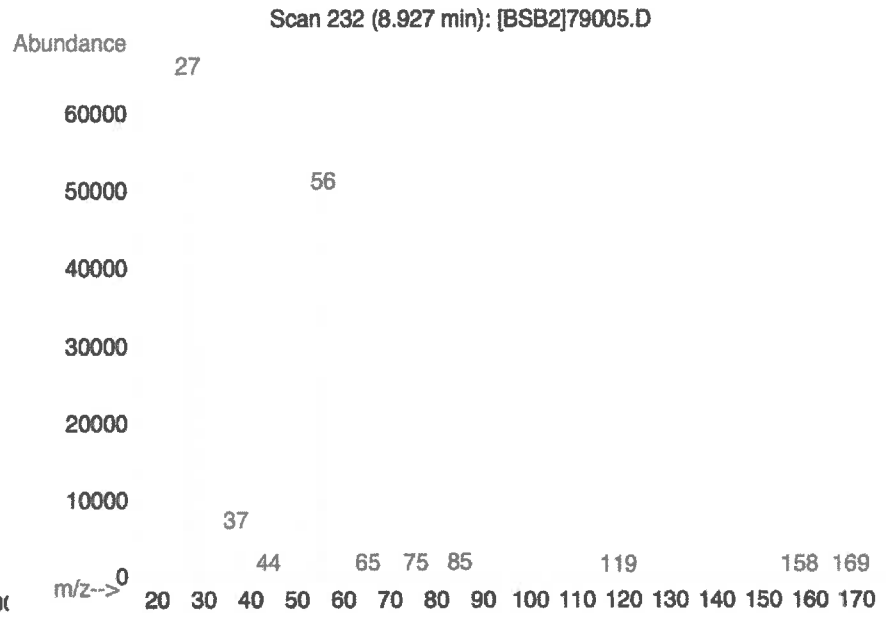
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

| | |
|---|---|
| | 091525 |
| Formulated By: Anthony Mahoney | DATE |
| | 091525 |
| 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 | 0.05176 | 5009.9 | 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 with weights traceable through NIST to the SI kilogram (see above).**
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
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**Rev 1.0, 2/25/2025**

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Rec 09/16/25 5 vial

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CERTIFIED WEIGHT REPORT

| | |
|---|---|
| **Part Number:** | 91980 |
| Lot Number: | 091525 |
| Description: | Acrolein |
| Expiration Date: | 101525 |
| Recommended Storage: | Refrigerate (2°C to 8°C) |
| Nominal Concentration (µg/mL): | 5000 |
| NIST Test ID#: | 6UTB |

**Solvent(s):** Water **Lot#** 041725Q

V15064 to V15068

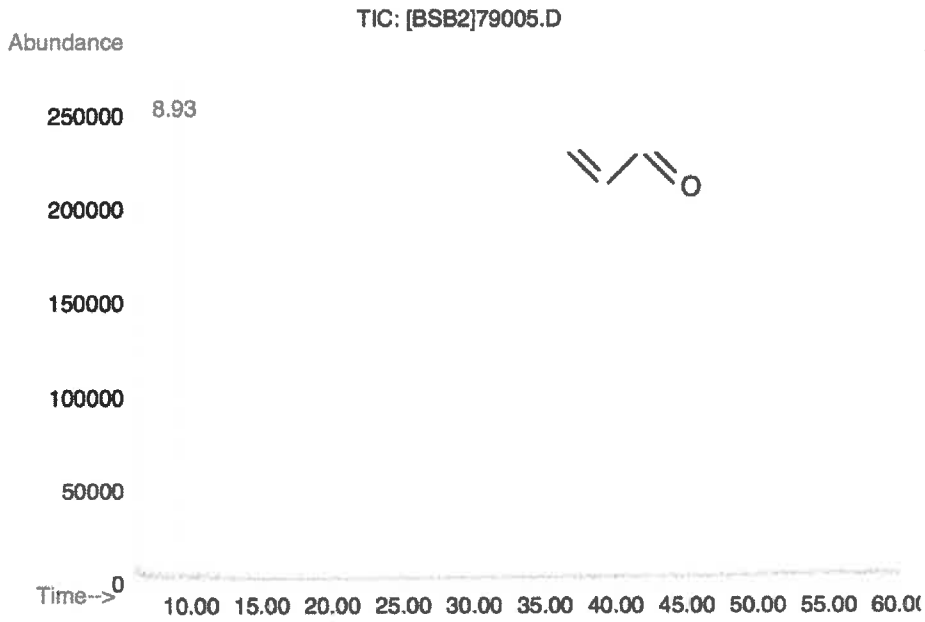
5E-05 Balance Uncertainty

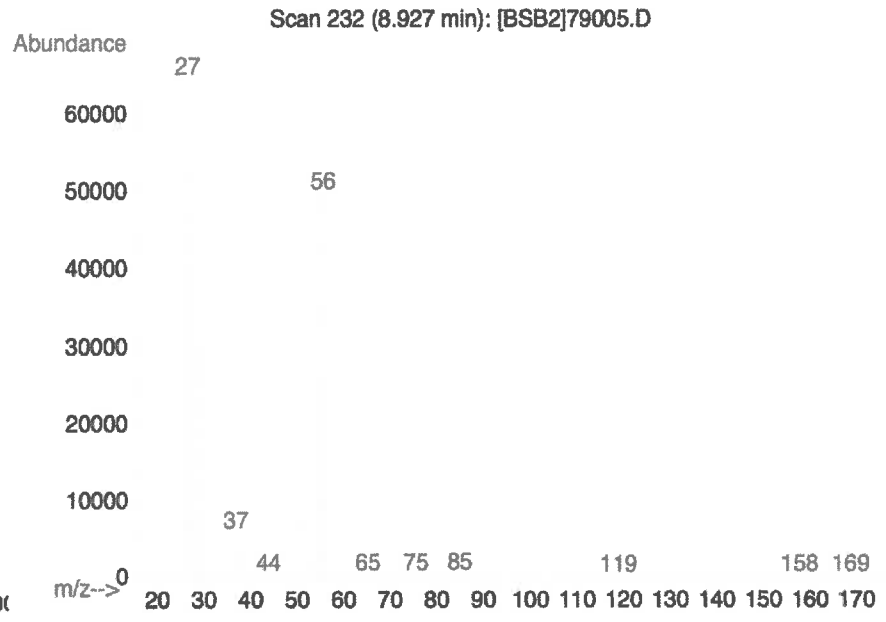
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

| | |
|---|---|
| | 091525 |
| Formulated By: Anthony Mahoney | DATE |
| | 091525 |
| 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 | 0.05176 | 5009.9 | 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.

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- **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**

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) | Vial A Time | Vial B Weight(g) | Vial B Time | Vial C Weight(g) with MeOH | Vial C Time | Methanol ID | Preservation Date | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q3321-01 | 5.60 | 11:00 | 5.17 | 11:01 | 5.32 | 11:02 | V14921 | 10/09/2025 | ENCORE SAMPLE 8260 STORED IN FRZ #2 |

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

Q3321



**USEPA**
DateShipped: 10/8/2025
CarrierName: FedEx
AirbillNo: 8850 1194 6759

**CHAIN OF CUSTODY RECORD**
Case #: 918
Contact Name: Peter Lisichenko
Contact Phone: 347-276-6251

**No: 2-100825-0004-0122-01**
Cooler #: 1
Lab: Alliance Technical Group, LLC
Lab Phone: 805-526-7161

| Lab # | Sample # | Location | Analyses | Matrix | Sample Date | Sample Time | Numb Cont | Container | Preservative | Lab QC |
|---|---|---|---|---|---|---|---|---|---|---|
| | P001-DS-01 | P001 | TAL VOCs | Soil | 10/8/2025 | 14:15 | 3 | 5-g Encore sampler | 4 C | |
| | P001-DS-01 | P001 | TAL SVOCs | Soil | 10/8/2025 | 14:15 | 1 | 8 oz glass jar w/Teflon cap | 4 C | |
| | P001-DS-01 | P001 | TAL PCBs | Soil | 10/8/2025 | 14:15 | 1 | 8 oz glass jar w/Teflon cap | 4 C | |
| | P001-DS-01 | P001 | TAL Pesticides | Soil | 10/8/2025 | 14:15 | 1 | 8 oz glass cl jar w/Teflon cap | 4 C | |
| | P001-DS-01 | P001 | TAL Metals+Hg&CN | Soil | 10/8/2025 | 14:15 | 1 | 8 oz glass jar w/Teflon cap | 4 C | |
| | P001-DS-01 | P001 | TCLP VOCs | Soil | 10/8/2025 | 14:15 | 1 | 8 oz glass jar w/Teflon cap | 4 C | |
| | P001-DS-01 | P001 | TCLP Metals+Hg | Soil | 10/8/2025 | 14:15 | 1 | 8 oz glass jar w/Teflon cap | 4 C | |
| | P001-DS-01 | P001 | TAL Pesticides | Soil | 10/8/2025 | 14:15 | 1 | 8 oz glass jar w/Teflon cap | 4 C | |
| | P001-DS-01 | P001 | TCLP SVOCs | Soil | 10/8/2025 | 14:15 | 1 | 8 oz glass jar w/Teflon cap | 4 C | |
| | P001-DS-01 | P001 | TCLP Herbicides | Soil | 10/8/2025 | 14:15 | 1 | 8 oz glass jar w/Teflon cap | 4 C | |

| Special Instructions: | **SAMPLES TRANSFERRED FROM** |
|---|---|
| | **CHAIN OF CUSTODY #** |

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| ALL SAMPLES ALL ANALYSIS | USEPA | 10/8/25 1600hrs | | 10/9/25 10:00 | IR Gun #1 3.4 C |
| | | | | | |
| | | | | | |
| | | | | | |

Q3321



**USEPA**
DateShipped: 10/8/2025
CarrierName: FedEx
AirbillNo: 8850 1194 6759

**CHAIN OF CUSTODY RECORD**
Case #: 918
Contact Name: Peter Lisichenko
Contact Phone: 347-276-6251

**No: 2-100825-0004-0122-01**
Cooler #: 1
Lab: Alliance Technical Group, LLC
Lab Phone: 805-526-7161

| Lab # | Sample # | Location | Analyses | Matrix | Sample Date | Sample Time | Numb Cont | Container | Preservative | Lab QC |
|---|---|---|---|---|---|---|---|---|---|---|
| | P001-DS-01 | P001 | Percent Moisture | Soil | 10/8/2025 | 14:15 | 1 | 4 oz glass jar | 4 C | |

Special Instructions:

**SAMPLES TRANSFERRED FROM**
**CHAIN OF CUSTODY #**

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| ALL SAMPLES ALL ANALYSIS | USEPA | 10/8/25 1600 hrs | | 1000 10/9/25 | IR Gun #1 3.4 C |
| | | | | | |
| | | | | | |

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

# Laboratory Certification

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

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q3321 ROYF02
**Client Name :** Weston Solutions, Inc.
**Client Contact :** Smita Sumbaly
**Invoice Name :** Weston Solutions, Inc.
**Invoice Contact :** Smita Sumbaly

**Order Date :** 10/9/2025 10:30:00 AM
**Project Name :** RFP ~~905~~ 918
**Receive DateTime :** 10/9/2025 ~~12:00:00 AM~~ 10:00
**Purchase Order :**

**Project Mgr :**
**Report Type :** Level 4
**EDD Type :** EXCEL NOCLEANUP
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q3321-01 | P001-DS-01 | Solid | 10/08/2025 | 14:15 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |

**Relinguished By :**
**Date / Time :** 10/9/25 10:00

**Received By :**
**Date / Time :** 10/09/25

**Storage Area :** **VOA Refridgerator Room**