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# Cover Page

**Order ID :** Q1194

**Project ID :** Amtrak Sawtooth Bridges 2025

**Client :** Portal Partners Tri-Venture

| Lab Sample Number | Client Sample Number |
|---|---|
| Q1194-01 | B-110-SB01 |
| Q1194-02 | B-110-SB02 |
| Q1194-03 | B-113-SB01 |
| Q1194-04 | B-113-SB02 |
| Q1194-08 | EB |
| Q1194-09 | FB |
| Q1194-10 | TB |

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

Signature : _____

Date: 2/1/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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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 |

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**APPENDIX A**

**QA REVIEW GENERAL DOCUMENTATION**

**Project #:** **Q1194**

| | 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:** **NILESH PRAJAPATI** **Date:** **02/01/2025**

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q1194 | **OrderDate:** | 1/27/2025 9:35:00 AM |
| **Client:** | Portal Partners Tri-Venture | **Project:** | Amtrak Sawtooth Bridges 2025 |
| **Contact:** | Joseph Krupansky | **Location:** | N41,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q1194-01** | **B-110-SB01** | **SOIL** | | | **01/25/25** | | | **01/27/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 01/27/25 | |
| **Q1194-01RE** | **B-110-SB01RE** | **SOIL** | | | **01/25/25** | | | **01/27/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 01/27/25 | |
| **Q1194-02** | **B-110-SB02** | **SOIL** | | | **01/25/25** | | | **01/27/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 01/27/25 | |
| **Q1194-03** | **B-113-SB01** | **SOIL** | | | **01/25/25** | | | **01/27/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 01/27/25 | |
| **Q1194-04** | **B-113-SB02** | **SOIL** | | | **01/25/25** | | | **01/27/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 01/27/25 | |
| **Q1194-09** | **FB** | **Water** | | | **01/25/25** | | | **01/27/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | | 01/28/25 | |
| **Q1194-10** | **TB** | **Water** | | | **01/25/25** | | | **01/27/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | | 01/27/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1194

**Client:** Portal Partners Tri-Venture

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **B-110-SB01** | | | | | | | |
| Q1194-01 | B-110-SB01 | SOIL | Acetone | 31.5 | | 4.80 | 19.2 | ug/Kg |
| | | | **Total Voc :** | 31.5 | | | | |
| | | | **Total Concentration:** | 31.5 | | | | |
| **Client ID:** | **B-110-SB01RE** | | | | | | | |
| Q1194-01RE | B-110-SB01RE | SOIL | Acetone | 55.1 | | 4.40 | 17.7 | ug/Kg |
| | | | **Total Voc :** | 55.1 | | | | |
| | | | **Total Concentration:** | 55.1 | | | | |
| **Client ID:** | **B-110-SB02** | | | | | | | |
| Q1194-02 | B-110-SB02 | SOIL | Acetone | 120 | | 9.60 | 38.3 | ug/Kg |
| | | | **Total Voc :** | 120 | | | | |
| | | | **Total Concentration:** | 120 | | | | |
| **Client ID:** | **B-113-SB02** | | | | | | | |
| Q1194-04 | B-113-SB02 | SOIL | Acetone | 100 | | 8.20 | 32.7 | ug/Kg |
| Q1194-04 | B-113-SB02 | SOIL | 2-Butanone | 22.7 | J | 7.40 | 32.7 | ug/Kg |
| | | | **Total Voc :** | 123 | | | | |
| | | | **Total Concentration:** | 123 | | | | |
| **Client ID:** | **FB** | | | | | | | |
| Q1194-09 | FB | Water | Acetone | 14.7 | | 1.40 | 5.00 | ug/L |
| | | | **Total Voc :** | 14.7 | | | | |
| | | | **Total Concentration:** | 14.7 | | | | |

# QC SUMMARY

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# Surrogate Summary

**SDG No.:** Q1194

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|
| Q1194-01 | B-110-SB01 | 1,2-Dichloroethane-d4 | 50 | 50.4 | 101 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 49.4 | 99 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 45.4 | 91 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 38.9 | 78 | | 70 (29) | 130 (146) |
| Q1194-01RE | B-110-SB01RE | 1,2-Dichloroethane-d4 | 50 | 65.1 | 130 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 60.2 | 120 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 48.2 | 96 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 31.4 | 63 | * | 70 (29) | 130 (146) |
| Q1194-02 | B-110-SB02 | 1,2-Dichloroethane-d4 | 50 | 44.2 | 88 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 45.9 | 92 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 44.5 | 89 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 33.9 | 68 | * | 70 (29) | 130 (146) |
| Q1194-03 | B-113-SB01 | 1,2-Dichloroethane-d4 | 50 | 47.8 | 96 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 47.6 | 95 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 47.1 | 94 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 43.7 | 87 | | 70 (29) | 130 (146) |
| Q1194-04 | B-113-SB02 | 1,2-Dichloroethane-d4 | 50 | 50.2 | 100 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 50.6 | 101 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 47.6 | 95 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 36.6 | 73 | | 70 (29) | 130 (146) |
| VY0127SBL01 | VY0127SBL01 | 1,2-Dichloroethane-d4 | 50 | 63.1 | 126 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 55.1 | 110 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 51.7 | 103 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 47.2 | 94 | | 70 (29) | 130 (146) |
| VY0127SBS01 | VY0127SBS01 | 1,2-Dichloroethane-d4 | 50 | 48.5 | 97 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 47.0 | 94 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 46.6 | 93 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 47.9 | 96 | | 70 (29) | 130 (146) |
| VY0127SBSD01 | VY0127SBSD01 | 1,2-Dichloroethane-d4 | 50 | 49.9 | 100 | | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 48.4 | 97 | | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 48.3 | 97 | | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 48.3 | 97 | | 70 (29) | 130 (146) |

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# Surrogate Summary

**SDG No.:** Q1194

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| Q1194-09 | FB | 1,2-Dichloroethane-d4 | 50 | 54.8 | 110 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 51.8 | 104 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 49.4 | 99 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 43.4 | 87 | 70 (77) | 130 (121) |
| Q1194-10 | TB | 1,2-Dichloroethane-d4 | 50 | 53.2 | 106 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 51.3 | 103 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 49.3 | 99 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 47.0 | 94 | 70 (77) | 130 (121) |
| VN0127WBL01 | VN0127WBL01 | 1,2-Dichloroethane-d4 | 50 | 51.2 | 102 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 51.0 | 102 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 50.0 | 100 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 45.7 | 91 | 70 (77) | 130 (121) |
| VN0127WBS01 | VN0127WBS01 | 1,2-Dichloroethane-d4 | 50 | 47.3 | 95 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 49.1 | 98 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 48.9 | 98 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 49.4 | 99 | 70 (77) | 130 (121) |
| VN0127WBSD0 | VN0127WBSD01 | 1,2-Dichloroethane-d4 | 50 | 47.6 | 95 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 48.0 | 96 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 47.8 | 96 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 50.0 | 100 | 70 (77) | 130 (121) |
| VN0128WBL01 | VN0128WBL01 | 1,2-Dichloroethane-d4 | 50 | 53.7 | 107 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 52.2 | 104 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 50.0 | 100 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 44.2 | 88 | 70 (77) | 130 (121) |
| VN0128WBS01 | VN0128WBS01 | 1,2-Dichloroethane-d4 | 50 | 51.1 | 102 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 53.2 | 106 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 54.1 | 108 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 52.0 | 104 | 70 (77) | 130 (121) |

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

**SW-846**

**SDG No.:** Q1194

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260-Low **Datafile :** VN085519.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN0127WBS01 | Dichlorodifluoromethane | 20 | 15.9 | ug/L | 79 | | | 40 (69) | 160 (116) | |
| | Chloromethane | 20 | 15.6 | ug/L | 78 | | | 40 (65) | 160 (116) | |
| | Vinyl chloride | 20 | 16.1 | ug/L | 81 | | | 70 (65) | 130 (117) | |
| | Bromomethane | 20 | 16.7 | ug/L | 84 | | | 40 (58) | 160 (125) | |
| | Chloroethane | 20 | 16.8 | ug/L | 84 | | | 40 (56) | 160 (128) | |
| | Trichlorofluoromethane | 20 | 17.9 | ug/L | 90 | | | 40 (73) | 160 (115) | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 17.5 | ug/L | 88 | | | 70 (80) | 130 (112) | |
| | 1,1-Dichloroethene | 20 | 17.7 | ug/L | 89 | | | 70 (74) | 130 (110) | |
| | Acetone | 100 | 91.4 | ug/L | 91 | | | 40 (60) | 160 (125) | |
| | Carbon disulfide | 20 | 14.8 | ug/L | 74 | | | 40 (64) | 160 (112) | |
| | Methyl tert-butyl Ether | 20 | 19.1 | ug/L | 96 | | | 70 (78) | 130 (114) | |
| | Methyl Acetate | 20 | 19.9 | ug/L | 100 | | | 70 (67) | 130 (125) | |
| | Methylene Chloride | 20 | 17.8 | ug/L | 89 | | | 70 (72) | 130 (114) | |
| | trans-1,2-Dichloroethene | 20 | 17.4 | ug/L | 87 | | | 70 (75) | 130 (108) | |
| | 1,1-Dichloroethane | 20 | 17.9 | ug/L | 90 | | | 70 (78) | 130 (112) | |
| | Cyclohexane | 20 | 16.7 | ug/L | 84 | | | 70 (75) | 130 (110) | |
| | 2-Butanone | 100 | 94.5 | ug/L | 95 | | | 40 (65) | 160 (122) | |
| | Carbon Tetrachloride | 20 | 18.2 | ug/L | 91 | | | 70 (77) | 130 (113) | |
| | cis-1,2-Dichloroethene | 20 | 17.8 | ug/L | 89 | | | 70 (77) | 130 (110) | |
| | Bromochloromethane | 20 | 17.5 | ug/L | 88 | | | 70 (70) | 130 (124) | |
| | Chloroform | 20 | 18.3 | ug/L | 92 | | | 70 (79) | 130 (113) | |
| | 1,1,1-Trichloroethane | 20 | 18.5 | ug/L | 93 | | | 70 (80) | 130 (108) | |
| | Methylcyclohexane | 20 | 17.3 | ug/L | 86 | | | 70 (72) | 130 (115) | |
| | Benzene | 20 | 18.2 | ug/L | 91 | | | 70 (82) | 130 (109) | |
| | 1,2-Dichloroethane | 20 | 18.4 | ug/L | 92 | | | 70 (80) | 130 (115) | |
| | Trichloroethene | 20 | 17.7 | ug/L | 89 | | | 70 (77) | 130 (113) | |
| | 1,2-Dichloropropane | 20 | 18.1 | ug/L | 91 | | | 70 (83) | 130 (111) | |
| | Bromodichloromethane | 20 | 19.0 | ug/L | 95 | | | 70 (83) | 130 (110) | |
| | 4-Methyl-2-Pentanone | 100 | 99.0 | ug/L | 99 | | | 40 (74) | 160 (118) | |
| | Toluene | 20 | 19.1 | ug/L | 96 | | | 70 (82) | 130 (110) | |
| | t-1,3-Dichloropropene | 20 | 18.7 | ug/L | 94 | | | 70 (79) | 130 (110) | |
| | cis-1,3-Dichloropropene | 20 | 19.1 | ug/L | 96 | | | 70 (82) | 130 (110) | |
| | 1,1,2-Trichloroethane | 20 | 18.8 | ug/L | 94 | | | 70 (83) | 130 (112) | |
| | 2-Hexanone | 100 | 100 | ug/L | 100 | | | 40 (73) | 160 (117) | |
| | Dibromochloromethane | 20 | 18.8 | ug/L | 94 | | | 70 (82) | 130 (110) | |
| | 1,2-Dibromoethane | 20 | 18.6 | ug/L | 93 | | | 70 (81) | 130 (110) | |
| | Tetrachloroethene | 20 | 19.6 | ug/L | 98 | | | 70 (67) | 130 (123) | |
| | Chlorobenzene | 20 | 18.3 | ug/L | 92 | | | 70 (82) | 130 (109) | |
| | Ethyl Benzene | 20 | 18.7 | ug/L | 94 | | | 70 (83) | 130 (109) | |
| | m/p-Xylenes | 40 | 38.3 | ug/L | 96 | | | 70 (82) | 130 (110) | |
| | o-Xylene | 20 | 19.1 | ug/L | 96 | | | 70 (83) | 130 (109) | |
| | Styrene | 20 | 19.6 | ug/L | 98 | | | 70 (80) | 130 (111) | |
| | Bromoform | 20 | 19.6 | ug/L | 98 | | | 70 (79) | 130 (109) | |
| | Isopropylbenzene | 20 | 19.2 | ug/L | 96 | | | 70 (83) | 130 (112) | |
| | 1,1,2,2-Tetrachloroethane | 20 | 18.5 | ug/L | 93 | | | 70 (76) | 130 (118) | |
| | 1,3-Dichlorobenzene | 20 | 17.7 | ug/L | 89 | | | 70 (82) | 130 (108) | |
| | 1,4-Dichlorobenzene | 20 | 17.6 | ug/L | 88 | | | 70 (82) | 130 (107) | |
| | 1,2-Dichlorobenzene | 20 | 17.9 | ug/L | 90 | | | 70 (82) | 130 (109) | |

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

**SW-846**

**SDG No.:** **Q1194**

**Client:** **Portal Partners Tri-Venture**

**Analytical Method:** **SW8260-Low** **Datafile :** VN085519.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VN0127WBS01** | 1,2-Dibromo-3-Chloropropane | 20 | 19.1 | ug/L | 96 | | | 40 (68) | 160 (112) | |
| | 1,2,4-Trichlorobenzene | 20 | 17.3 | ug/L | 86 | | | 70 (75) | 130 (113) | |
| | 1,2,3-Trichlorobenzene | 20 | 16.8 | ug/L | 84 | | | 70 (76) | 130 (114) | |

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

**SW-846**

**SDG No.:** Q1194

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260-Low **Datafile :** VN085520.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN0127WBSD01 | Dichlorodifluoromethane | 20 | 16.0 | ug/L | 80 | 1 | | 40 (69) | 160 (116) | 20 (20) |
| | Chloromethane | 20 | 15.6 | ug/L | 78 | 0 | | 40 (65) | 160 (116) | 20 (20) |
| | Vinyl chloride | 20 | 15.5 | ug/L | 78 | 4 | | 70 (65) | 130 (117) | 20 (20) |
| | Bromomethane | 20 | 16.2 | ug/L | 81 | 4 | | 40 (58) | 160 (125) | 20 (20) |
| | Chloroethane | 20 | 16.3 | ug/L | 81 | 4 | | 40 (56) | 160 (128) | 20 (20) |
| | Trichlorofluoromethane | 20 | 16.9 | ug/L | 85 | 6 | | 40 (73) | 160 (115) | 20 (20) |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 17.6 | ug/L | 88 | 0 | | 70 (80) | 130 (112) | 20 (20) |
| | 1,1-Dichloroethene | 20 | 17.4 | ug/L | 87 | 2 | | 70 (74) | 130 (110) | 20 (20) |
| | Acetone | 100 | 96.0 | ug/L | 96 | 5 | | 40 (60) | 160 (125) | 20 (20) |
| | Carbon disulfide | 20 | 14.3 | ug/L | 72 | 3 | | 40 (64) | 160 (112) | 20 (20) |
| | Methyl tert-butyl Ether | 20 | 19.4 | ug/L | 97 | 1 | | 70 (78) | 130 (114) | 20 (20) |
| | Methyl Acetate | 20 | 20.5 | ug/L | 103 | 3 | | 70 (67) | 130 (125) | 20 (20) |
| | Methylene Chloride | 20 | 17.3 | ug/L | 86 | 3 | | 70 (72) | 130 (114) | 20 (20) |
| | trans-1,2-Dichloroethene | 20 | 17.1 | ug/L | 86 | 1 | | 70 (75) | 130 (108) | 20 (20) |
| | 1,1-Dichloroethane | 20 | 17.7 | ug/L | 89 | 1 | | 70 (78) | 130 (112) | 20 (20) |
| | Cyclohexane | 20 | 16.1 | ug/L | 81 | 4 | | 70 (75) | 130 (110) | 20 (20) |
| | 2-Butanone | 100 | 98.1 | ug/L | 98 | 3 | | 40 (65) | 160 (122) | 20 (20) |
| | Carbon Tetrachloride | 20 | 17.8 | ug/L | 89 | 2 | | 70 (77) | 130 (113) | 20 (20) |
| | cis-1,2-Dichloroethene | 20 | 17.7 | ug/L | 89 | 0 | | 70 (77) | 130 (110) | 20 (20) |
| | Bromochloromethane | 20 | 17.5 | ug/L | 88 | 0 | | 70 (70) | 130 (124) | 20 (20) |
| | Chloroform | 20 | 17.9 | ug/L | 90 | 2 | | 70 (79) | 130 (113) | 20 (20) |
| | 1,1,1-Trichloroethane | 20 | 17.9 | ug/L | 90 | 3 | | 70 (80) | 130 (108) | 20 (20) |
| | Methylcyclohexane | 20 | 16.8 | ug/L | 84 | 2 | | 70 (72) | 130 (115) | 20 (20) |
| | Benzene | 20 | 18.2 | ug/L | 91 | 0 | | 70 (82) | 130 (109) | 20 (20) |
| | 1,2-Dichloroethane | 20 | 18.8 | ug/L | 94 | 2 | | 70 (80) | 130 (115) | 20 (20) |
| | Trichloroethene | 20 | 17.9 | ug/L | 90 | 1 | | 70 (77) | 130 (113) | 20 (20) |
| | 1,2-Dichloropropane | 20 | 18.1 | ug/L | 91 | 0 | | 70 (83) | 130 (111) | 20 (20) |
| | Bromodichloromethane | 20 | 19.2 | ug/L | 96 | 1 | | 70 (83) | 130 (110) | 20 (20) |
| | 4-Methyl-2-Pentanone | 100 | 100 | ug/L | 100 | 1 | | 40 (74) | 160 (118) | 20 (20) |
| | Toluene | 20 | 18.9 | ug/L | 95 | 1 | | 70 (82) | 130 (110) | 20 (20) |
| | t-1,3-Dichloropropene | 20 | 19.5 | ug/L | 98 | 4 | | 70 (79) | 130 (110) | 20 (20) |
| | cis-1,3-Dichloropropene | 20 | 18.9 | ug/L | 95 | 1 | | 70 (82) | 130 (110) | 20 (20) |
| | 1,1,2-Trichloroethane | 20 | 19.4 | ug/L | 97 | 3 | | 70 (83) | 130 (112) | 20 (20) |
| | 2-Hexanone | 100 | 100 | ug/L | 100 | 0 | | 40 (73) | 160 (117) | 20 (20) |
| | Dibromochloromethane | 20 | 19.1 | ug/L | 96 | 2 | | 70 (82) | 130 (110) | 20 (20) |
| | 1,2-Dibromoethane | 20 | 19.1 | ug/L | 96 | 3 | | 70 (81) | 130 (110) | 20 (20) |
| | Tetrachloroethene | 20 | 18.6 | ug/L | 93 | 5 | | 70 (67) | 130 (123) | 20 (20) |
| | Chlorobenzene | 20 | 18.4 | ug/L | 92 | 0 | | 70 (82) | 130 (109) | 20 (20) |
| | Ethyl Benzene | 20 | 18.6 | ug/L | 93 | 1 | | 70 (83) | 130 (109) | 20 (20) |
| | m/p-Xylenes | 40 | 38.7 | ug/L | 97 | 1 | | 70 (82) | 130 (110) | 20 (20) |
| | o-Xylene | 20 | 19.0 | ug/L | 95 | 1 | | 70 (83) | 130 (109) | 20 (20) |
| | Styrene | 20 | 19.5 | ug/L | 98 | 0 | | 70 (80) | 130 (111) | 20 (20) |
| | Bromoform | 20 | 20.2 | ug/L | 101 | 3 | | 70 (79) | 130 (109) | 20 (20) |
| | Isopropylbenzene | 20 | 19.0 | ug/L | 95 | 1 | | 70 (83) | 130 (112) | 20 (20) |
| | 1,1,2,2-Tetrachloroethane | 20 | 19.2 | ug/L | 96 | 3 | | 70 (76) | 130 (118) | 20 (20) |
| | 1,3-Dichlorobenzene | 20 | 18.9 | ug/L | 95 | 7 | | 70 (82) | 130 (108) | 20 (20) |
| | 1,4-Dichlorobenzene | 20 | 18.0 | ug/L | 90 | 2 | | 70 (82) | 130 (107) | 20 (20) |
| | 1,2-Dichlorobenzene | 20 | 18.7 | ug/L | 94 | 4 | | 70 (82) | 130 (109) | 20 (20) |

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

**SW-846**

**SDG No.:** **Q1194**

**Client:** **Portal Partners Tri-Venture**

**Analytical Method:** **SW8260-Low** **Datafile :** VN085520.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VN0127WBSD01** | 1,2-Dibromo-3-Chloropropane | 20 | 20.7 | ug/L | 104 | 8 | | 40 (68) | 160 (112) | 20 (20) |
| | 1,2,4-Trichlorobenzene | 20 | 18.0 | ug/L | 90 | 5 | | 70 (75) | 130 (113) | 20 (20) |
| | 1,2,3-Trichlorobenzene | 20 | 18.1 | ug/L | 91 | 8 | | 70 (76) | 130 (114) | 20 (20) |

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

**SW-846**

**SDG No.:** Q1194

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260-Low **Datafile :** VN085529.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN0128WBS01 | Dichlorodifluoromethane | 20 | 18.3 | ug/L | 92 | | | 40 (69) | 160 (116) | |
| | Chloromethane | 20 | 17.3 | ug/L | 86 | | | 40 (65) | 160 (116) | |
| | Vinyl chloride | 20 | 18.2 | ug/L | 91 | | | 70 (65) | 130 (117) | |
| | Bromomethane | 20 | 19.5 | ug/L | 98 | | | 40 (58) | 160 (125) | |
| | Chloroethane | 20 | 19.8 | ug/L | 99 | | | 40 (56) | 160 (128) | |
| | Trichlorofluoromethane | 20 | 20.7 | ug/L | 104 | | | 40 (73) | 160 (115) | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 20.5 | ug/L | 103 | | | 70 (80) | 130 (112) | |
| | 1,1-Dichloroethene | 20 | 19.1 | ug/L | 96 | | | 70 (74) | 130 (110) | |
| | Acetone | 100 | 100 | ug/L | 100 | | | 40 (60) | 160 (125) | |
| | Carbon disulfide | 20 | 16.4 | ug/L | 82 | | | 40 (64) | 160 (112) | |
| | Methyl tert-butyl Ether | 20 | 20.9 | ug/L | 104 | | | 70 (78) | 130 (114) | |
| | Methyl Acetate | 20 | 22.8 | ug/L | 114 | | | 70 (67) | 130 (125) | |
| | Methylene Chloride | 20 | 19.8 | ug/L | 99 | | | 70 (72) | 130 (114) | |
| | trans-1,2-Dichloroethene | 20 | 18.9 | ug/L | 95 | | | 70 (75) | 130 (108) | |
| | 1,1-Dichloroethane | 20 | 20.1 | ug/L | 101 | | | 70 (78) | 130 (112) | |
| | Cyclohexane | 20 | 17.6 | ug/L | 88 | | | 70 (75) | 130 (110) | |
| | 2-Butanone | 100 | 110 | ug/L | 110 | | | 40 (65) | 160 (122) | |
| | Carbon Tetrachloride | 20 | 20.5 | ug/L | 103 | | | 70 (77) | 130 (113) | |
| | cis-1,2-Dichloroethene | 20 | 19.9 | ug/L | 100 | | | 70 (77) | 130 (110) | |
| | Bromochloromethane | 20 | 16.1 | ug/L | 81 | | | 70 (70) | 130 (124) | |
| | Chloroform | 20 | 20.6 | ug/L | 103 | | | 70 (79) | 130 (113) | |
| | 1,1,1-Trichloroethane | 20 | 20.4 | ug/L | 102 | | | 70 (80) | 130 (108) | |
| | Methylcyclohexane | 20 | 18.9 | ug/L | 95 | | | 70 (72) | 130 (115) | |
| | Benzene | 20 | 20.7 | ug/L | 104 | | | 70 (82) | 130 (109) | |
| | 1,2-Dichloroethane | 20 | 21.0 | ug/L | 105 | | | 70 (80) | 130 (115) | |
| | Trichloroethene | 20 | 20.4 | ug/L | 102 | | | 70 (77) | 130 (113) | |
| | 1,2-Dichloropropane | 20 | 20.7 | ug/L | 104 | | | 70 (83) | 130 (111) | |
| | Bromodichloromethane | 20 | 21.7 | ug/L | 109 | | | 70 (83) | 130 (110) | |
| | 4-Methyl-2-Pentanone | 100 | 120 | ug/L | 120 | | | 40 (74) | 160 (118) | |
| | Toluene | 20 | 21.9 | ug/L | 110 | | | 70 (82) | 130 (110) | |
| | t-1,3-Dichloropropene | 20 | 21.4 | ug/L | 107 | | | 70 (79) | 130 (110) | |
| | cis-1,3-Dichloropropene | 20 | 21.5 | ug/L | 108 | | | 70 (82) | 130 (110) | |
| | 1,1,2-Trichloroethane | 20 | 21.9 | ug/L | 110 | | | 70 (83) | 130 (112) | |
| | 2-Hexanone | 100 | 120 | ug/L | 120 | | | 40 (73) | 160 (117) | |
| | Dibromochloromethane | 20 | 21.2 | ug/L | 106 | | | 70 (82) | 130 (110) | |
| | 1,2-Dibromoethane | 20 | 20.6 | ug/L | 103 | | | 70 (81) | 130 (110) | |
| | Tetrachloroethene | 20 | 21.7 | ug/L | 109 | | | 70 (67) | 130 (123) | |
| | Chlorobenzene | 20 | 20.6 | ug/L | 103 | | | 70 (82) | 130 (109) | |
| | Ethyl Benzene | 20 | 20.8 | ug/L | 104 | | | 70 (83) | 130 (109) | |
| | m/p-Xylenes | 40 | 43.1 | ug/L | 108 | | | 70 (82) | 130 (110) | |
| | o-Xylene | 20 | 20.9 | ug/L | 104 | | | 70 (83) | 130 (109) | |
| | Styrene | 20 | 21.3 | ug/L | 106 | | | 70 (80) | 130 (111) | |
| | Bromoform | 20 | 22.5 | ug/L | 113 | | | 70 (79) | 130 (109) | |
| | Isopropylbenzene | 20 | 20.9 | ug/L | 104 | | | 70 (83) | 130 (112) | |
| | 1,1,2,2-Tetrachloroethane | 20 | 21.6 | ug/L | 108 | | | 70 (76) | 130 (118) | |
| | 1,3-Dichlorobenzene | 20 | 20.8 | ug/L | 104 | | | 70 (82) | 130 (108) | |
| | 1,4-Dichlorobenzene | 20 | 19.8 | ug/L | 99 | | | 70 (82) | 130 (107) | |
| | 1,2-Dichlorobenzene | 20 | 20.4 | ug/L | 102 | | | 70 (82) | 130 (109) | |

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

**SW-846**

**SDG No.:** **Q1194**

**Client:** **Portal Partners Tri-Venture**

**Analytical Method:** **SW8260-Low** **Datafile :** VN085529.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VN0128WBS01** | 1,2-Dibromo-3-Chloropropane | 20 | 23.5 | ug/L | 117 | | | 40 (68) | 160 (112) | |
| | 1,2,4-Trichlorobenzene | 20 | 18.9 | ug/L | 95 | | | 70 (75) | 130 (113) | |
| | 1,2,3-Trichlorobenzene | 20 | 19.0 | ug/L | 95 | | | 70 (76) | 130 (114) | |

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

**SW-846**

**SDG No.:** Q1194

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260D **Datafile :** VY020938.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0127SBS01 | Dichlorodifluoromethane | 20 | 22.4 | ug/Kg | 112 | | | 40 (64) | 160 (136) | |
| | Chloromethane | 20 | 22.6 | ug/Kg | 113 | | | 40 (70) | 160 (130) | |
| | Vinyl chloride | 20 | 22.0 | ug/Kg | 110 | | | 70 (72) | 130 (129) | |
| | Bromomethane | 20 | 21.2 | ug/Kg | 106 | | | 40 (58) | 160 (141) | |
| | Chloroethane | 20 | 21.6 | ug/Kg | 108 | | | 40 (69) | 160 (130) | |
| | Trichlorofluoromethane | 20 | 21.6 | ug/Kg | 108 | | | 40 (69) | 160 (134) | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.9 | ug/Kg | 110 | | | 70 (81) | 130 (123) | |
| | 1,1-Dichloroethene | 20 | 21.8 | ug/Kg | 109 | | | 70 (79) | 130 (121) | |
| | Acetone | 100 | 120 | ug/Kg | 120 | | | 40 (60) | 160 (131) | |
| | Carbon disulfide | 20 | 22.0 | ug/Kg | 110 | | | 40 (45) | 160 (154) | |
| | Methyl tert-butyl Ether | 20 | 22.4 | ug/Kg | 112 | | | 70 (77) | 130 (129) | |
| | Methyl Acetate | 20 | 23.3 | ug/Kg | 117 | | | 70 (69) | 130 (149) | |
| | Methylene Chloride | 20 | 21.7 | ug/Kg | 109 | | | 70 (56) | 130 (174) | |
| | trans-1,2-Dichloroethene | 20 | 21.6 | ug/Kg | 108 | | | 70 (80) | 130 (123) | |
| | 1,1-Dichloroethane | 20 | 21.8 | ug/Kg | 109 | | | 70 (82) | 130 (123) | |
| | Cyclohexane | 20 | 21.1 | ug/Kg | 106 | | | 70 (76) | 130 (122) | |
| | 2-Butanone | 100 | 120 | ug/Kg | 120 | | | 40 (69) | 160 (131) | |
| | Carbon Tetrachloride | 20 | 21.0 | ug/Kg | 105 | | | 70 (76) | 130 (129) | |
| | cis-1,2-Dichloroethene | 20 | 21.7 | ug/Kg | 109 | | | 70 (82) | 130 (123) | |
| | Bromochloromethane | 20 | 21.6 | ug/Kg | 108 | | | 70 (80) | 130 (127) | |
| | Chloroform | 20 | 21.6 | ug/Kg | 108 | | | 70 (82) | 130 (125) | |
| | 1,1,1-Trichloroethane | 20 | 21.6 | ug/Kg | 108 | | | 70 (80) | 130 (126) | |
| | Methylcyclohexane | 20 | 21.0 | ug/Kg | 105 | | | 70 (77) | 130 (123) | |
| | Benzene | 20 | 21.7 | ug/Kg | 109 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichloroethane | 20 | 21.9 | ug/Kg | 110 | | | 70 (81) | 130 (126) | |
| | Trichloroethene | 20 | 21.8 | ug/Kg | 109 | | | 70 (83) | 130 (122) | |
| | 1,2-Dichloropropane | 20 | 21.4 | ug/Kg | 107 | | | 70 (83) | 130 (122) | |
| | Bromodichloromethane | 20 | 21.4 | ug/Kg | 107 | | | 70 (82) | 130 (123) | |
| | 4-Methyl-2-Pentanone | 100 | 120 | ug/Kg | 120 | | | 40 (70) | 160 (135) | |
| | Toluene | 20 | 21.4 | ug/Kg | 107 | | | 70 (83) | 130 (122) | |
| | t-1,3-Dichloropropene | 20 | 22.0 | ug/Kg | 110 | | | 70 (78) | 130 (124) | |
| | cis-1,3-Dichloropropene | 20 | 21.2 | ug/Kg | 106 | | | 70 (81) | 130 (122) | |
| | 1,1,2-Trichloroethane | 20 | 22.5 | ug/Kg | 113 | | | 70 (82) | 130 (125) | |
| | 2-Hexanone | 100 | 120 | ug/Kg | 120 | | | 40 (66) | 160 (138) | |
| | Dibromochloromethane | 20 | 21.9 | ug/Kg | 110 | | | 70 (79) | 130 (125) | |
| | 1,2-Dibromoethane | 20 | 22.3 | ug/Kg | 112 | | | 70 (80) | 130 (125) | |
| | Tetrachloroethene | 20 | 21.8 | ug/Kg | 109 | | | 70 (83) | 130 (125) | |
| | Chlorobenzene | 20 | 21.5 | ug/Kg | 108 | | | 70 (84) | 130 (122) | |
| | Ethyl Benzene | 20 | 21.4 | ug/Kg | 107 | | | 70 (82) | 130 (124) | |
| | m/p-Xylenes | 40 | 43.6 | ug/Kg | 109 | | | 70 (83) | 130 (124) | |
| | o-Xylene | 20 | 21.7 | ug/Kg | 109 | | | 70 (83) | 130 (123) | |
| | Styrene | 20 | 21.9 | ug/Kg | 110 | | | 70 (82) | 130 (124) | |
| | Bromoform | 20 | 22.5 | ug/Kg | 113 | | | 70 (75) | 130 (127) | |
| | Isopropylbenzene | 20 | 20.5 | ug/Kg | 103 | | | 70 (82) | 130 (124) | |
| | 1,1,2,2-Tetrachloroethane | 20 | 22.2 | ug/Kg | 111 | | | 70 (77) | 130 (127) | |
| | 1,3-Dichlorobenzene | 20 | 20.9 | ug/Kg | 104 | | | 70 (83) | 130 (122) | |
| | 1,4-Dichlorobenzene | 20 | 20.9 | ug/Kg | 104 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichlorobenzene | 20 | 20.9 | ug/Kg | 104 | | | 70 (83) | 130 (124) | |

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

**SW-846**

**SDG No.:** **Q1194**

**Client:** **Portal Partners Tri-Venture**

**Analytical Method:** **SW8260D** **Datafile :** VY020938.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VY0127SBS01** | 1,2-Dibromo-3-Chloropropane | 20 | 22.5 | ug/Kg | 113 | | | 40 (66) | 160 (134) | |
| | 1,2,4-Trichlorobenzene | 20 | 20.5 | ug/Kg | 103 | | | 70 (78) | 130 (127) | |
| | 1,2,3-Trichlorobenzene | 20 | 20.8 | ug/Kg | 104 | | | 70 (70) | 130 (137) | |

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

**SW-846**

**SDG No.:** Q1194

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260D **Datafile :** VY020939.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0127SBSD01 | Dichlorodifluoromethane | 20 | 21.1 | ug/Kg | 106 | 6 | | 40 (64) | 160 (136) | 30 (20) |
| | Chloromethane | 20 | 19.9 | ug/Kg | 100 | 12 | | 40 (70) | 160 (130) | 30 (20) |
| | Vinyl chloride | 20 | 19.9 | ug/Kg | 100 | 10 | | 70 (72) | 130 (129) | 30 (20) |
| | Bromomethane | 20 | 18.8 | ug/Kg | 94 | 12 | | 40 (58) | 160 (141) | 30 (20) |
| | Chloroethane | 20 | 20.2 | ug/Kg | 101 | 7 | | 40 (69) | 160 (130) | 30 (20) |
| | Trichlorofluoromethane | 20 | 20.8 | ug/Kg | 104 | 4 | | 40 (69) | 160 (134) | 30 (20) |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.2 | ug/Kg | 106 | 4 | | 70 (81) | 130 (123) | 30 (20) |
| | 1,1-Dichloroethene | 20 | 21.2 | ug/Kg | 106 | 3 | | 70 (79) | 130 (121) | 30 (20) |
| | Acetone | 100 | 110 | ug/Kg | 110 | 9 | | 40 (60) | 160 (131) | 30 (20) |
| | Carbon disulfide | 20 | 20.9 | ug/Kg | 104 | 6 | | 40 (45) | 160 (154) | 30 (20) |
| | Methyl tert-butyl Ether | 20 | 22.4 | ug/Kg | 112 | 0 | | 70 (77) | 130 (129) | 30 (20) |
| | Methyl Acetate | 20 | 22.8 | ug/Kg | 114 | 3 | | 70 (69) | 130 (149) | 30 (20) |
| | Methylene Chloride | 20 | 21.3 | ug/Kg | 106 | 3 | | 70 (56) | 130 (174) | 30 (20) |
| | trans-1,2-Dichloroethene | 20 | 21.3 | ug/Kg | 106 | 2 | | 70 (80) | 130 (123) | 30 (20) |
| | 1,1-Dichloroethane | 20 | 21.3 | ug/Kg | 106 | 3 | | 70 (82) | 130 (123) | 30 (20) |
| | Cyclohexane | 20 | 21.0 | ug/Kg | 105 | 1 | | 70 (76) | 130 (122) | 30 (20) |
| | 2-Butanone | 100 | 120 | ug/Kg | 120 | 0 | | 40 (69) | 160 (131) | 30 (20) |
| | Carbon Tetrachloride | 20 | 20.9 | ug/Kg | 104 | 1 | | 70 (76) | 130 (129) | 30 (20) |
| | cis-1,2-Dichloroethene | 20 | 21.4 | ug/Kg | 107 | 2 | | 70 (82) | 130 (123) | 30 (20) |
| | Bromochloromethane | 20 | 21.4 | ug/Kg | 107 | 1 | | 70 (80) | 130 (127) | 30 (20) |
| | Chloroform | 20 | 21.3 | ug/Kg | 106 | 2 | | 70 (82) | 130 (125) | 30 (20) |
| | 1,1,1-Trichloroethane | 20 | 21.3 | ug/Kg | 106 | 2 | | 70 (80) | 130 (126) | 30 (20) |
| | Methylcyclohexane | 20 | 21.0 | ug/Kg | 105 | 0 | | 70 (77) | 130 (123) | 30 (20) |
| | Benzene | 20 | 21.2 | ug/Kg | 106 | 3 | | 70 (84) | 130 (121) | 30 (20) |
| | 1,2-Dichloroethane | 20 | 21.5 | ug/Kg | 108 | 2 | | 70 (81) | 130 (126) | 30 (20) |
| | Trichloroethene | 20 | 21.1 | ug/Kg | 106 | 3 | | 70 (83) | 130 (122) | 30 (20) |
| | 1,2-Dichloropropane | 20 | 21.3 | ug/Kg | 106 | 1 | | 70 (83) | 130 (122) | 30 (20) |
| | Bromodichloromethane | 20 | 21.1 | ug/Kg | 106 | 1 | | 70 (82) | 130 (123) | 30 (20) |
| | 4-Methyl-2-Pentanone | 100 | 120 | ug/Kg | 120 | 0 | | 40 (70) | 160 (135) | 30 (20) |
| | Toluene | 20 | 21.3 | ug/Kg | 106 | 1 | | 70 (83) | 130 (122) | 30 (20) |
| | t-1,3-Dichloropropene | 20 | 22.0 | ug/Kg | 110 | 0 | | 70 (78) | 130 (124) | 30 (20) |
| | cis-1,3-Dichloropropene | 20 | 21.7 | ug/Kg | 109 | 3 | | 70 (81) | 130 (122) | 30 (20) |
| | 1,1,2-Trichloroethane | 20 | 22.6 | ug/Kg | 113 | 0 | | 70 (82) | 130 (125) | 30 (20) |
| | 2-Hexanone | 100 | 120 | ug/Kg | 120 | 0 | | 40 (66) | 160 (138) | 30 (20) |
| | Dibromochloromethane | 20 | 22.3 | ug/Kg | 112 | 2 | | 70 (79) | 130 (125) | 30 (20) |
| | 1,2-Dibromoethane | 20 | 22.5 | ug/Kg | 113 | 1 | | 70 (80) | 130 (125) | 30 (20) |
| | Tetrachloroethene | 20 | 21.0 | ug/Kg | 105 | 4 | | 70 (83) | 130 (125) | 30 (20) |
| | Chlorobenzene | 20 | 20.8 | ug/Kg | 104 | 4 | | 70 (84) | 130 (122) | 30 (20) |
| | Ethyl Benzene | 20 | 21.1 | ug/Kg | 106 | 1 | | 70 (82) | 130 (124) | 30 (20) |
| | m/p-Xylenes | 40 | 42.6 | ug/Kg | 106 | 3 | | 70 (83) | 130 (124) | 30 (20) |
| | o-Xylene | 20 | 21.5 | ug/Kg | 108 | 1 | | 70 (83) | 130 (123) | 30 (20) |
| | Styrene | 20 | 21.8 | ug/Kg | 109 | 1 | | 70 (82) | 130 (124) | 30 (20) |
| | Bromoform | 20 | 23.2 | ug/Kg | 116 | 3 | | 70 (75) | 130 (127) | 30 (20) |
| | Isopropylbenzene | 20 | 20.5 | ug/Kg | 103 | 0 | | 70 (82) | 130 (124) | 30 (20) |
| | 1,1,2,2-Tetrachloroethane | 20 | 21.9 | ug/Kg | 110 | 1 | | 70 (77) | 130 (127) | 30 (20) |
| | 1,3-Dichlorobenzene | 20 | 21.1 | ug/Kg | 106 | 2 | | 70 (83) | 130 (122) | 30 (20) |
| | 1,4-Dichlorobenzene | 20 | 21.2 | ug/Kg | 106 | 2 | | 70 (84) | 130 (121) | 30 (20) |
| | 1,2-Dichlorobenzene | 20 | 21.2 | ug/Kg | 106 | 2 | | 70 (83) | 130 (124) | 30 (20) |

( ) = LABORATORY INHOUSE LIMIT

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

**SW-846**

**SDG No.:** **Q1194**

**Client:** **Portal Partners Tri-Venture**

**Analytical Method:** **SW8260D** **Datafile :** VY020939.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VY0127SBSD01** | 1,2-Dibromo-3-Chloropropane | 20 | 22.5 | ug/Kg | 113 | 0 | | 40 (66) | 160 (134) | 30 (20) |
| | 1,2,4-Trichlorobenzene | 20 | 20.2 | ug/Kg | 101 | 2 | | 70 (78) | 130 (127) | 30 (20) |
| | 1,2,3-Trichlorobenzene | 20 | 20.7 | ug/Kg | 104 | 0 | | 70 (70) | 130 (137) | 30 (20) |

( ) = LABORATORY INHOUSE LIMIT

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0127WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM

Case No.: Q1194

SAS No.: Q1194

SDG NO.: Q1194

Lab File ID: VN085518.D

Lab Sample ID: VN0127WBL01

Date Analyzed: 01/27/2025

Time Analyzed: 15:48

GC Column: RXI-624

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VN0127WBS01 | VN0127WBS01 | VN085519.D | 01/27/2025 |
| VN0127WBSD01 | VN0127WBSD01 | VN085520.D | 01/27/2025 |
| TB | Q1194-10 | VN085523.D | 01/27/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0128WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM

Case No.: Q1194

SAS No.: Q1194

SDG NO.: Q1194

Lab File ID: VN085528.D

Lab Sample ID: VN0128WBL01

Date Analyzed: 01/28/2025

Time Analyzed: 10:51

GC Column: RXI-624

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VN0128WBS01 | VN0128WBS01 | VN085529.D | 01/28/2025 |
| FB | Q1194-09 | VN085533.D | 01/28/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0127SBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM

Case No.: Q1194

SAS No.: Q1194

SDG NO.: Q1194

Lab File ID: VY020937.D

Lab Sample ID: VY0127SBL01

Date Analyzed: 01/27/2025

Time Analyzed: 09:51

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 |
|---|---|---|---|
| VY0127SBS01 | VY0127SBS01 | VY020938.D | 01/27/2025 |
| VY0127SBSD01 | VY0127SBSD01 | VY020939.D | 01/27/2025 |
| B-110-SB01 | Q1194-01 | VY020946.D | 01/27/2025 |
| B-110-SB02 | Q1194-02 | VY020947.D | 01/27/2025 |
| B-113-SB02 | Q1194-04 | VY020949.D | 01/27/2025 |
| B-110-SB01RE | Q1194-01RE | VY020950.D | 01/27/2025 |
| B-113-SB01 | Q1194-03 | VY020951.D | 01/27/2025 |

COMMENTS:

Raw Data: **VN085437.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH
Contract: PORT06
Lab Code: CHEM
Case No.: Q1194
SAS No.: Q1194
SDG NO.: Q1194
Lab File ID: VN085437.D
BFB Injection Date: 01/14/2025
Instrument ID: MSVOA_N
BFB Injection Time: 14:22
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 22.3 |
| 75 | 30.0 - 60.0% of mass 95 | 58 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 7.8 |
| 173 | Less than 2.0% of mass 174 | 1.4 ( 1.8 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 76 |
| 175 | 5.0 - 9.0% of mass 174 | 5.4 ( 7.1 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 74.1 ( 97.4 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.9 ( 6.7 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC100 | VSTDICC100 | VN085438.D | 01/14/2025 | 14:56 |
| VSTDICCC050 | VSTDICCC050 | VN085439.D | 01/14/2025 | 15:19 |
| VSTDICC020 | VSTDICC020 | VN085440.D | 01/14/2025 | 15:43 |
| VSTDICC010 | VSTDICC010 | VN085441.D | 01/14/2025 | 16:07 |
| VSTDICC005 | VSTDICC005 | VN085442.D | 01/14/2025 | 16:31 |
| VSTDICC001 | VSTDICC001 | VN085443.D | 01/14/2025 | 17:19 |

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

Lab Name: CHEMTECH
Contract: PORT06
Lab Code: CHEM
Case No.: Q1194
SAS No.: Q1194
SDG NO.: Q1194
Lab File ID: VN085515.D
BFB Injection Date: 01/27/2025
Instrument ID: MSVOA_N
BFB Injection Time: 13:08
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 22.9 |
| 75 | 30.0 - 60.0% of mass 95 | 57.4 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 7.2 |
| 173 | Less than 2.0% of mass 174 | 0.9 ( 1.2 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 77 |
| 175 | 5.0 - 9.0% of mass 174 | 6.1 ( 7.9 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 74.1 ( 96.2 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.2 ( 7 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VN085516.D | 01/27/2025 | 14:50 |
| VN0127WBL01 | VN0127WBL01 | VN085518.D | 01/27/2025 | 15:48 |
| VN0127WBS01 | VN0127WBS01 | VN085519.D | 01/27/2025 | 16:12 |
| VN0127WBSD01 | VN0127WBSD01 | VN085520.D | 01/27/2025 | 16:46 |
| TB | Q1194-10 | VN085523.D | 01/27/2025 | 17:58 |

Raw Data: **VN085525.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH
Contract: PORT06
Lab Code: CHEM
Case No.: Q1194
SAS No.: Q1194
SDG NO.: Q1194
Lab File ID: VN085525.D
BFB Injection Date: 01/28/2025
Instrument ID: MSVOA_N
BFB Injection Time: 09:17
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 21.1 |
| 75 | 30.0 - 60.0% of mass 95 | 55.9 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 7.4 |
| 173 | Less than 2.0% of mass 174 | 1.5 ( 1.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 75.9 |
| 175 | 5.0 - 9.0% of mass 174 | 5.5 ( 7.2 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 73.7 ( 97.2 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5 ( 6.8 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VN085526.D | 01/28/2025 | 09:53 |
| VN0128WBL01 | VN0128WBL01 | VN085528.D | 01/28/2025 | 10:51 |
| VN0128WBS01 | VN0128WBS01 | VN085529.D | 01/28/2025 | 11:15 |
| FB | Q1194-09 | VN085533.D | 01/28/2025 | 13:00 |

Raw Data: **VY020922.D**

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

Lab Name: CHEMTECH
Contract: PORT06
Lab Code: CHEM
Case No.: Q1194
SAS No.: Q1194
SDG NO.: Q1194
Lab File ID: VY020922.D
BFB Injection Date: 01/24/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 08:44
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 | 16.3 |
| 75 | 30.0 - 60.0% of mass 95 | 50.3 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.3 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 90.9 |
| 175 | 5.0 - 9.0% of mass 174 | 7 ( 7.7 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 87.5 ( 96.3 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 6.6 ( 7.5 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICCC050 | VSTDICCC050 | VY020927.D | 01/24/2025 | 14:03 |
| VSTDICC100 | VSTDICC100 | VY020928.D | 01/24/2025 | 14:27 |
| VSTDICC150 | VSTDICC150 | VY020929.D | 01/24/2025 | 14:50 |
| VSTDICC020 | VSTDICC020 | VY020931.D | 01/24/2025 | 15:36 |
| VSTDICC010 | VSTDICC010 | VY020932.D | 01/24/2025 | 15:59 |
| VSTDICC005 | VSTDICC005 | VY020933.D | 01/24/2025 | 16:21 |

Raw Data: **VY020935.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH
Contract: PORT06
Lab Code: CHEM
Case No.: Q1194
SAS No.: Q1194
SDG NO.: Q1194
Lab File ID: VY020935.D
BFB Injection Date: 01/27/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 08:32
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 | 16.4 |
| 75 | 30.0 - 60.0% of mass 95 | 49.7 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.8 |
| 173 | Less than 2.0% of mass 174 | 0.9 ( 1.1 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 86.4 |
| 175 | 5.0 - 9.0% of mass 174 | 6.6 ( 7.7 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 83.6 ( 96.7 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 6 ( 7.2 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY020936.D | 01/27/2025 | 09:06 |
| VY0127SBL01 | VY0127SBL01 | VY020937.D | 01/27/2025 | 09:51 |
| VY0127SBS01 | VY0127SBS01 | VY020938.D | 01/27/2025 | 10:30 |
| VY0127SBSD01 | VY0127SBSD01 | VY020939.D | 01/27/2025 | 10:54 |
| B-110-SB01 | Q1194-01 | VY020946.D | 01/27/2025 | 14:24 |
| B-110-SB02 | Q1194-02 | VY020947.D | 01/27/2025 | 14:47 |
| B-113-SB02 | Q1194-04 | VY020949.D | 01/27/2025 | 15:32 |
| B-110-SB01RE | Q1194-01RE | VY020950.D | 01/27/2025 | 16:01 |
| B-113-SB01 | Q1194-03 | VY020951.D | 01/27/2025 | 16:24 |

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1194 SAS No.: Q1194 SDG NO.: Q1194

Lab File ID: VN085516.D Date Analyzed: 01/27/2025

Instrument ID: MSVOA_N Time Analyzed: 14:50

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

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 179985 | 8.22 | 325755 | 9.09 | 284425 | 11.87 |
| UPPER LIMIT | 359970 | 8.724 | 651510 | 9.594 | 568850 | 12.365 |
| LOWER LIMIT | 89992.5 | 7.724 | 162878 | 8.594 | 142213 | 11.365 |
| EPA SAMPLE NO. | | | | | | |
| TB | 180339 | 8.22 | 326143 | 9.10 | 288357 | 11.87 |
| VN0127WBL01 | 197682 | 8.22 | 347425 | 9.10 | 297114 | 11.87 |
| VN0127WBS01 | 208674 | 8.22 | 353856 | 9.10 | 309822 | 11.87 |
| VN0127WBSD01 | 201491 | 8.22 | 340191 | 9.10 | 297834 | 11.87 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1194 SAS No.: Q1194 SDG NO.: Q1194

Lab File ID: VN085516.D Date Analyzed: 01/27/2025

Instrument ID: MSVOA_N Time Analyzed: 14:50

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 139987 | 13.788 | | | | |
| UPPER LIMIT | 279974 | 14.288 | | | | |
| LOWER LIMIT | 69993.5 | 13.288 | | | | |
| EPA SAMPLE NO. | | | | | | |
| TB | 112650 | 13.79 | | | | |
| VN0127WBL01 | 116627 | 13.79 | | | | |
| VN0127WBS01 | 147310 | 13.79 | | | | |
| VN0127WBSD01 | 142141 | 13.79 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1194 SAS No.: Q1194 SDG NO.: Q1194

Lab File ID: VN085526.D Date Analyzed: 01/28/2025

Instrument ID: MSVOA_N Time Analyzed: 09:53

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

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 203638 | 8.22 | 333806 | 9.09 | 302551 | 11.87 |
| UPPER LIMIT | 407276 | 8.718 | 667612 | 9.594 | 605102 | 12.365 |
| LOWER LIMIT | 101819 | 7.718 | 166903 | 8.594 | 151276 | 11.365 |
| EPA SAMPLE NO. | | | | | | |
| FB | 169030 | 8.22 | 313197 | 9.10 | 274340 | 11.87 |
| VN0128WBL01 | 183717 | 8.22 | 332601 | 9.10 | 291066 | 11.87 |
| VN0128WBS01 | 185562 | 8.22 | 307569 | 9.10 | 271043 | 11.87 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1194 SAS No.: Q1194 SDG NO.: Q1194

Lab File ID: VN085526.D Date Analyzed: 01/28/2025

Instrument ID: MSVOA_N Time Analyzed: 09:53

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 155713 | 13.788 | | | | |
| UPPER LIMIT | 311426 | 14.288 | | | | |
| LOWER LIMIT | 77856.5 | 13.288 | | | | |
| EPA SAMPLE NO. | | | | | | |
| FB | 106996 | 13.79 | | | | |
| VN0128WBL01 | 116250 | 13.79 | | | | |
| VN0128WBS01 | 126721 | 13.79 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1194 SAS No.: Q1194 SDG NO.: Q1194

Lab File ID: VY020936.D Date Analyzed: 01/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:06

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 | 282457 | 7.73 | 407197 | 8.63 | 343290 | 11.43 |
| UPPER LIMIT | 564914 | 8.225 | 814394 | 9.127 | 686580 | 11.926 |
| LOWER LIMIT | 141229 | 7.225 | 203599 | 8.127 | 171645 | 10.926 |
| EPA SAMPLE NO. | | | | | | |
| B-110-SB01 | 155482 | 7.72 | 236023 | 8.63 | 187660 | 11.43 |
| B-110-SB01RE | 21135 * | 7.71 | 29996 * | 8.62 | 22466 * | 11.42 |
| B-110-SB02 | 382024 | 7.71 | 583439 | 8.62 | 419826 | 11.43 |
| B-113-SB01 | 427947 | 7.71 | 666781 | 8.62 | 538661 | 11.42 |
| B-113-SB02 | 331503 | 7.71 | 506966 | 8.62 | 369514 | 11.42 |
| VY0127SBL01 | 237241 | 7.73 | 406523 | 8.63 | 343434 | 11.43 |
| VY0127SBS01 | 284690 | 7.72 | 421508 | 8.63 | 350671 | 11.43 |
| VY0127SBSD01 | 284825 | 7.72 | 421282 | 8.62 | 357449 | 11.42 |

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

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

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

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Fax : 908 789 8922

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1194 SAS No.: Q1194 SDG NO.: Q1194

Lab File ID: VY020936.D Date Analyzed: 01/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:06

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

| | IS4 AREA # | | RT # | | | | |
|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 166155 | | 13.358 | | | | |
| UPPER LIMIT | 332310 | | 13.858 | | | | |
| LOWER LIMIT | 83077.5 | | 12.858 | | | | |
| EPA SAMPLE NO. | | | | | | | |
| B-110-SB01 | 75046 | * | 13.36 | | | | |
| B-110-SB01RE | 4581 | * | 13.35 | | | | |
| B-110-SB02 | 153323 | | 13.35 | | | | |
| B-113-SB01 | 250424 | | 13.35 | | | | |
| B-113-SB02 | 129163 | | 13.35 | | | | |
| VY0127SBL01 | 130475 | | 13.36 | | | | |
| VY0127SBS01 | 176333 | | 13.36 | | | | |
| VY0127SBSD01 | 177256 | | 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: **VY020946.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | B-110-SB01 | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 88.3 |
| Sample Wt/Vol: | 7.36 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020946.D | 1 | | 01/27/25 14:24 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.30 | U | 1.30 | 3.80 | ug/Kg |
| 74-87-3 | Chloromethane | 0.89 | U | 0.89 | 3.80 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.59 | U | 0.59 | 3.80 | ug/Kg |
| 74-83-9 | Bromomethane | 0.79 | U | 0.79 | 3.80 | ug/Kg |
| 75-00-3 | Chloroethane | 0.78 | U | 0.78 | 3.80 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.70 | U | 0.70 | 3.80 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.82 | U | 0.82 | 3.80 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.60 | U | 0.60 | 3.80 | ug/Kg |
| 67-64-1 | Acetone | 31.5 | | 4.80 | 19.2 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 0.98 | U | 0.98 | 3.80 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.52 | U | 0.52 | 3.80 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.40 | U | 1.40 | 3.80 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.60 | U | 2.60 | 7.70 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.65 | U | 0.65 | 3.80 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.48 | U | 0.48 | 3.80 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.53 | U | 0.53 | 3.80 | ug/Kg |
| 78-93-3 | 2-Butanone | 4.40 | U | 4.40 | 19.2 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.67 | U | 0.67 | 3.80 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.47 | U | 0.47 | 3.80 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.90 | U | 1.90 | 3.80 | ug/Kg |
| 67-66-3 | Chloroform | 0.52 | U | 0.52 | 3.80 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.60 | U | 0.60 | 3.80 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.67 | U | 0.67 | 3.80 | ug/Kg |
| 71-43-2 | Benzene | 0.55 | U | 0.55 | 3.80 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.47 | U | 0.47 | 3.80 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.58 | U | 0.58 | 3.80 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.51 | U | 0.51 | 3.80 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.43 | U | 0.43 | 3.80 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.30 | U | 3.30 | 19.2 | ug/Kg |
| 108-88-3 | Toluene | 0.52 | U | 0.52 | 3.80 | ug/Kg |

Raw Data: **VY020946.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | B-110-SB01 | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 88.3 |
| Sample Wt/Vol: | 7.36 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020946.D | 1 | | 01/27/25 14:24 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.46 | U | 0.46 | 3.80 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.44 | U | 0.44 | 3.80 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.65 | U | 0.65 | 3.80 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.70 | U | 3.70 | 19.2 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.50 | U | 0.50 | 3.80 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.61 | U | 0.61 | 3.80 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.68 | U | 0.68 | 3.80 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.57 | U | 0.57 | 3.80 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.48 | U | 0.48 | 3.80 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.00 | U | 1.00 | 7.70 | ug/Kg |
| 95-47-6 | o-Xylene | 0.54 | U | 0.54 | 3.80 | ug/Kg |
| 100-42-5 | Styrene | 0.46 | U | 0.46 | 3.80 | ug/Kg |
| 75-25-2 | Bromoform | 0.62 | U | 0.62 | 3.80 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.52 | U | 0.52 | 3.80 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.85 | U | 0.85 | 3.80 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.57 | U | 0.57 | 3.80 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.62 | U | 0.62 | 3.80 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.45 | U | 0.45 | 3.80 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.20 | U | 1.20 | 3.80 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.61 | U | 0.61 | 3.80 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.60 | U | 0.60 | 3.80 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.4 | | 70 (50) - 130 (163) | 101% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.4 | | 70 (54) - 130 (147) | 99% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.4 | | 70 (58) - 130 (134) | 91% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 38.8 | | 70 (29) - 130 (146) | 78% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 155000 | 7.719 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 236000 | 8.628 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 188000 | 11.426 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 75000 | 13.359 | | | |

Raw Data: **VY020946.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | B-110-SB01 | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 88.3 |
| Sample Wt/Vol: | 7.36 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020946.D | 1 | | 01/27/25 14:24 | VY012725 |

| 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

Quantitation Report (LSC Reviewed)

Sample Results: **VY020946.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020946.D
Acq On : 27 Jan 2025 14:24
Operator : SY/MD
Sample : Q1194-01
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01

Quant Time: Jan 28 01:13:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 155482 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.628 | 114 | 236023 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 187660 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.359 | 152 | 75046 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 62524 | 50.436 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 100.880% | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 66890 | 49.366 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 98.740% | | | |
| 50) Toluene-d8 | 10.115 | 98 | 238822 | 45.441 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 90.880% | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 67951 | 38.849 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 77.700% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 3.879 | 43 | 6886 | 40.998 | ug/l | 93 |

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

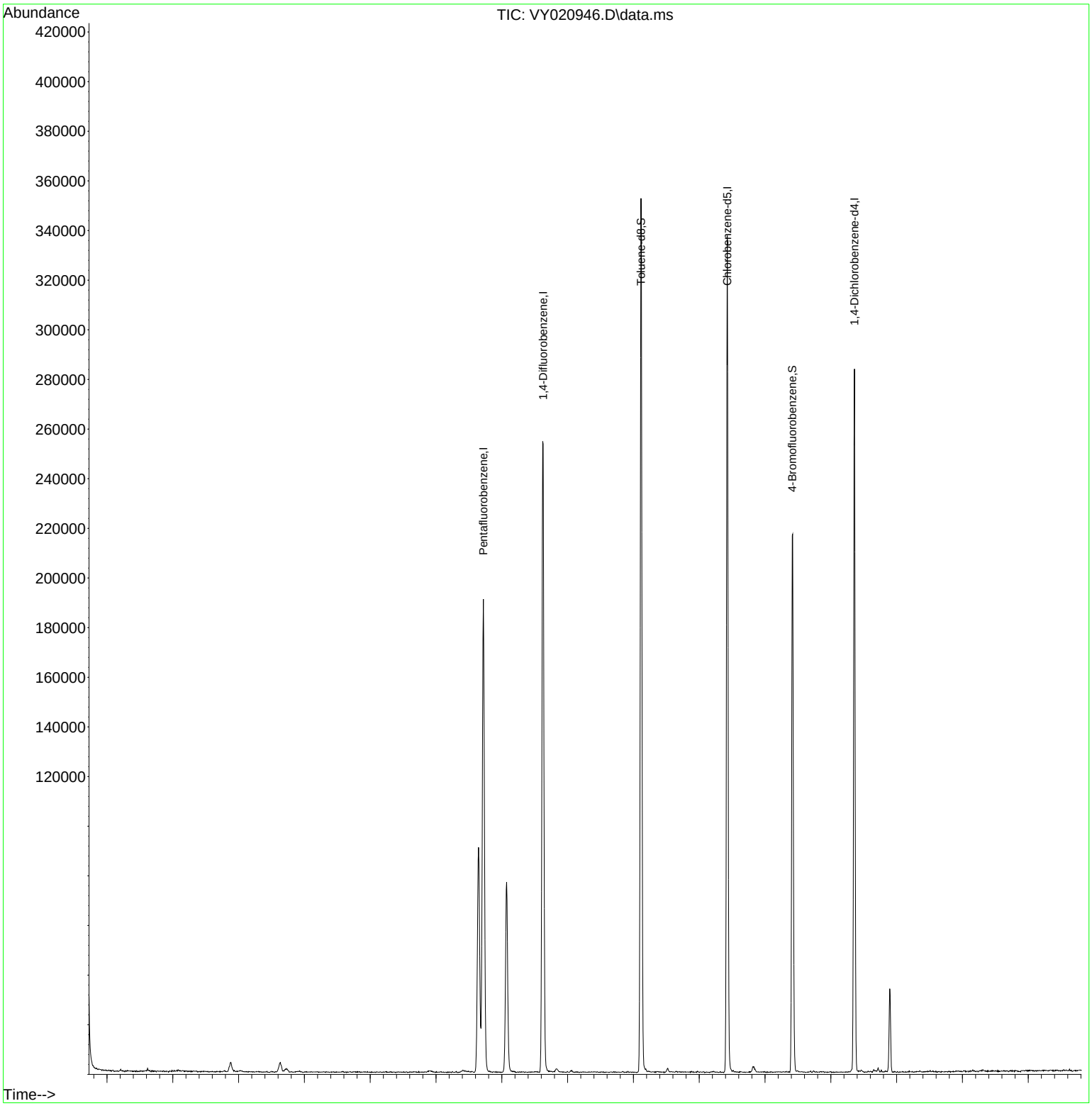
Quantitation Report (LSC Reviewed)

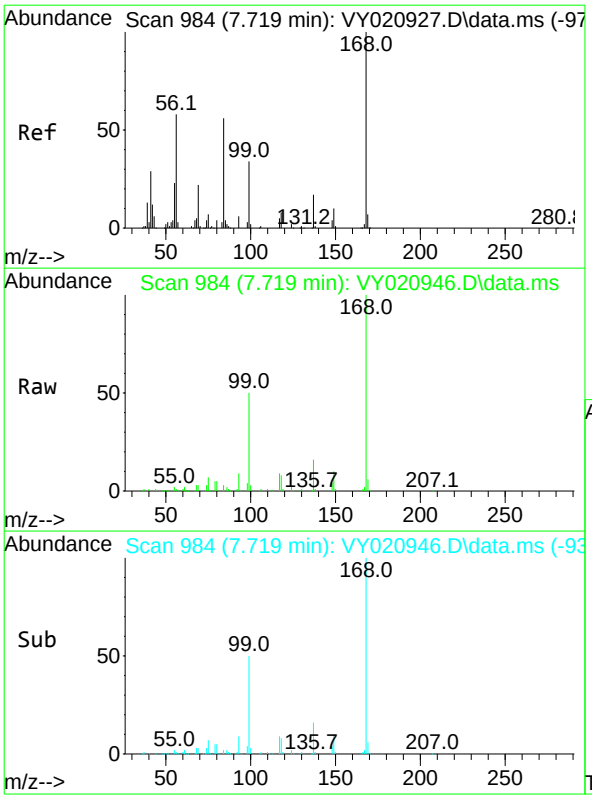
Sample Results: **VY020946.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020946.D
Acq On : 27 Jan 2025 14:24
Operator : SY/MD
Sample : Q1194-01
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01

Quant Time: Jan 28 01:13:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration



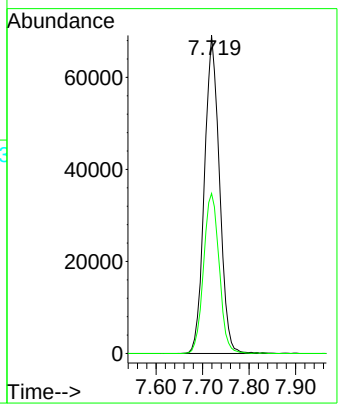


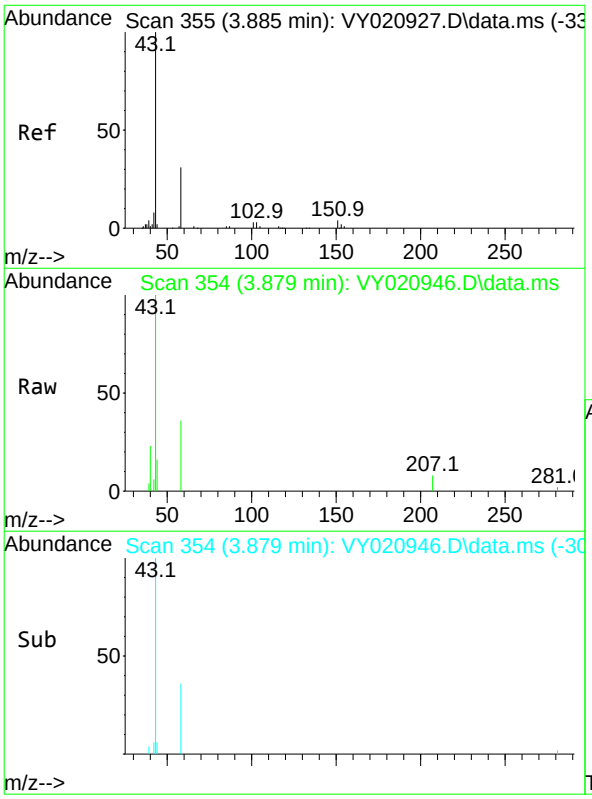

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020946.D
Acq: 27 Jan 2025 14:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01

Tgt Ion:168 Resp: 155482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 50.3 | 43.0 | 64.6 |

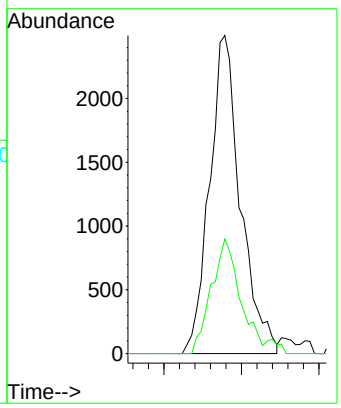


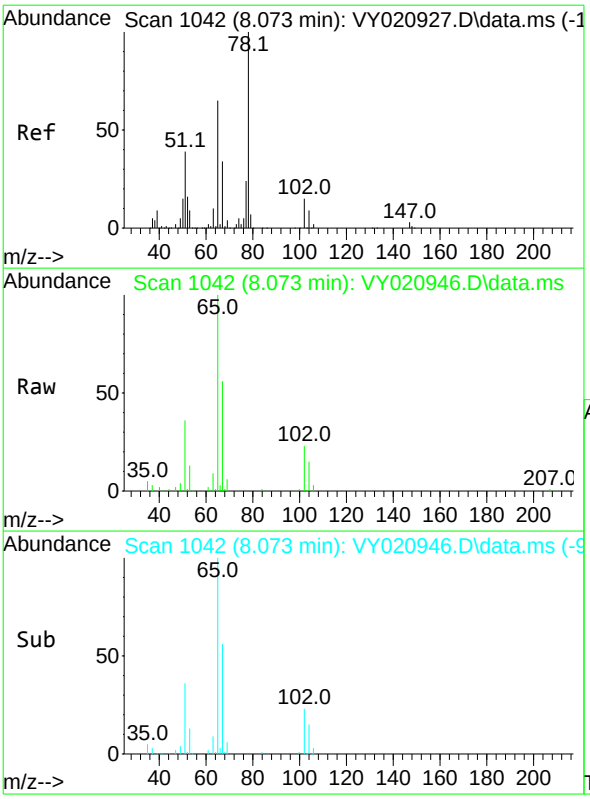




#16
Acetone
Concen: 40.998 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.006 min
Lab File: VY020946.D
Acq: 27 Jan 2025 14:24

Tgt Ion: 43 Resp: 6886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.0 | 25.6 | 38.4 |



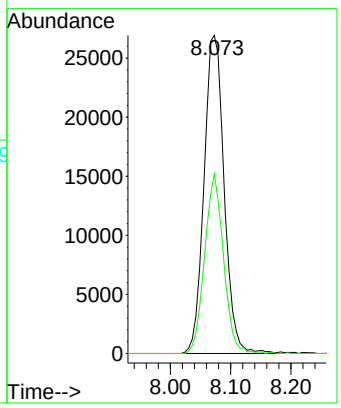


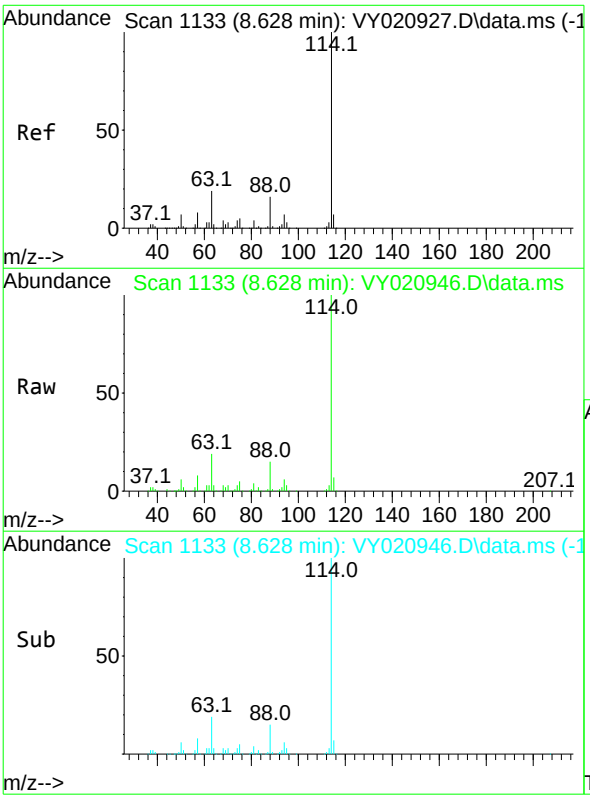

#33
1,2-Dichloroethane-d4
Concen: 50.436 ug/l
RT: 8.073 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020946.D
Acq: 27 Jan 2025 14:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01

Tgt Ion: 65 Resp: 62524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.9 | 0.0 | 105.8 |

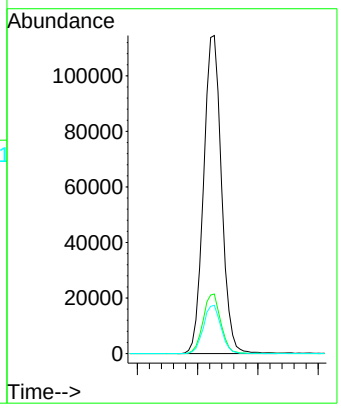


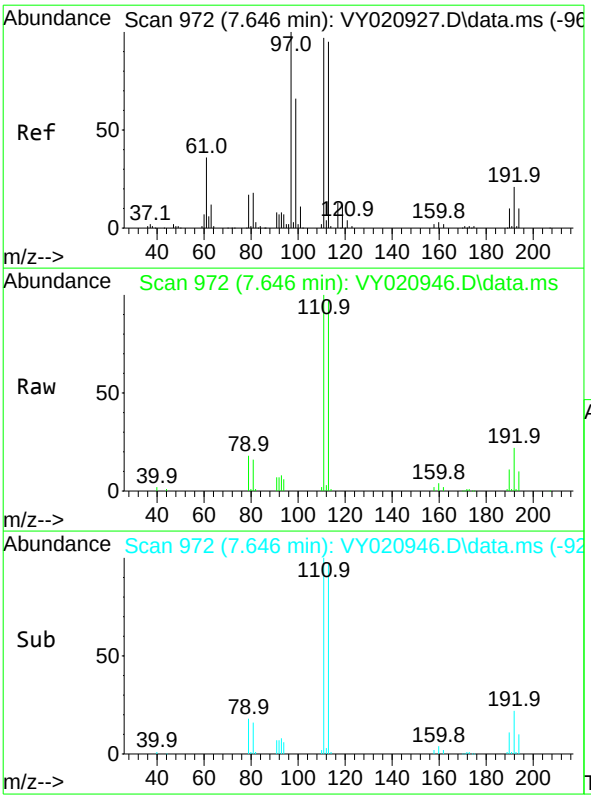




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.628 min Scan# 1133
Delta R.T. 0.000 min
Lab File: VY020946.D
Acq: 27 Jan 2025 14:24

Tgt Ion:114 Resp: 236023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.7 | 0.0 | 38.4 |
| 88 | 15.2 | 0.0 | 31.6 |



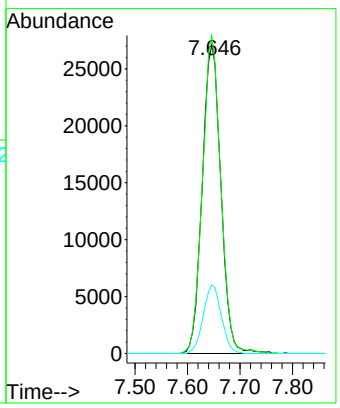


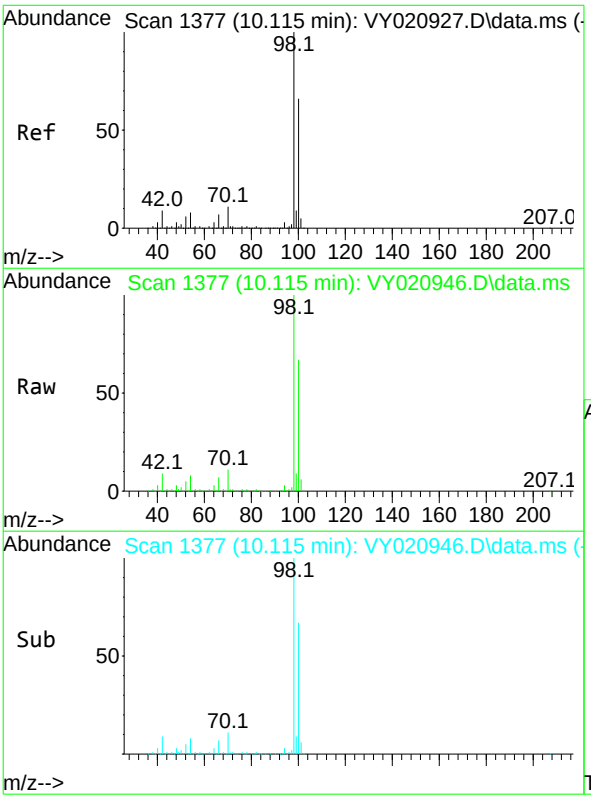

#35
Dibromofluoromethane
Concen: 49.366 ug/l
RT: 7.646 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020946.D
Acq: 27 Jan 2025 14:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01

Tgt Ion:113 Resp: 66890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.1 | 82.3 | 123.5 |
| 192 | 21.6 | 17.4 | 26.2 |

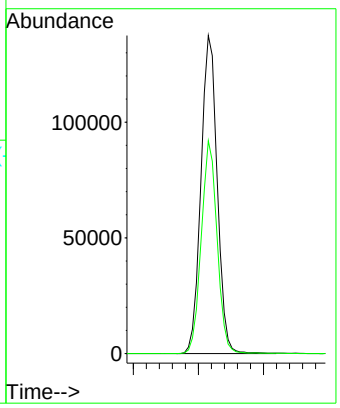


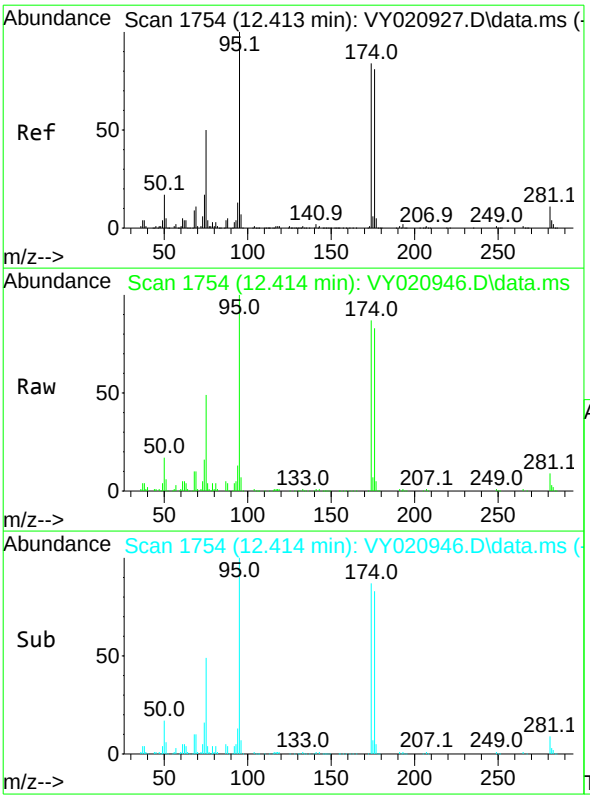




#50
Toluene-d8
Concen: 45.441 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020946.D
Acq: 27 Jan 2025 14:24

Tgt Ion: 98 Resp: 238822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 52.3 | 78.5 |



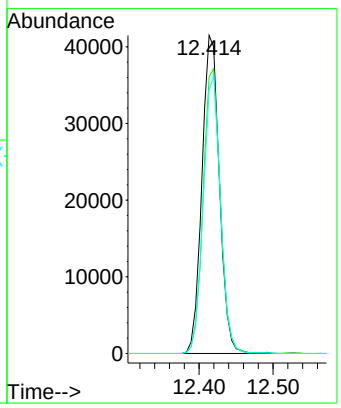


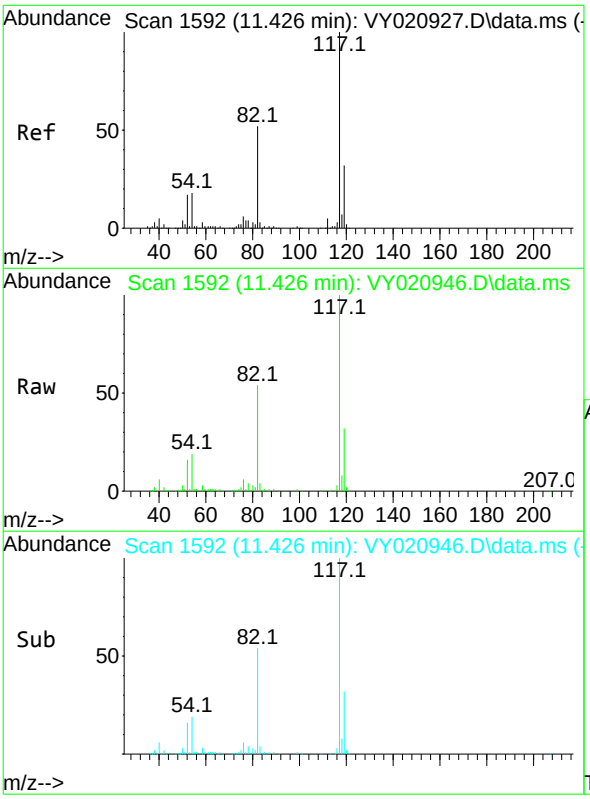

#62
4-Bromofluorobenzene
Concen: 38.849 ug/l
RT: 12.414 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020946.D
Acq: 27 Jan 2025 14:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01

Tgt Ion: 95 Resp: 67951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 88.8 | 0.0 | 177.4 |
| 176 | 86.0 | 0.0 | 172.2 |

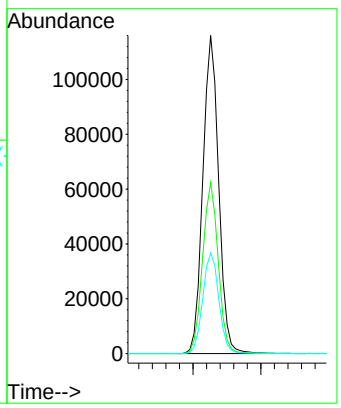


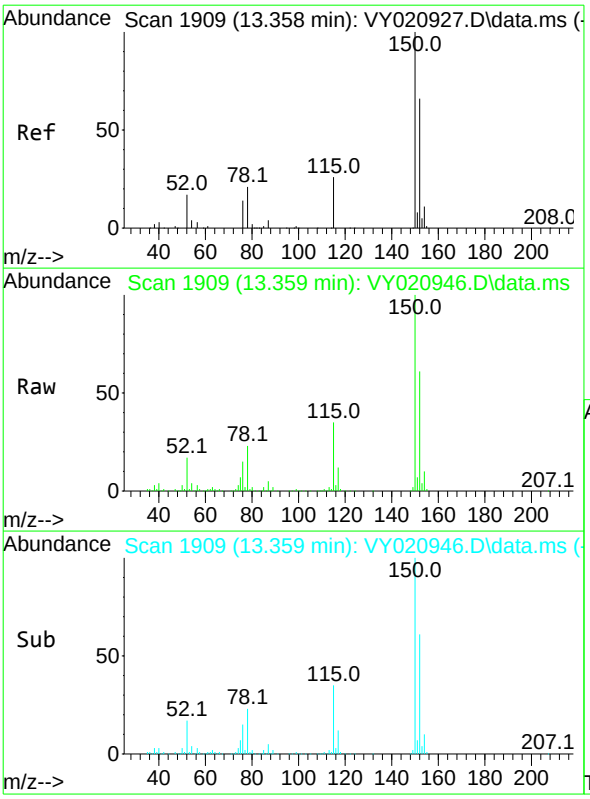




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1592
Delta R.T. 0.000 min
Lab File: VY020946.D
Acq: 27 Jan 2025 14:24

Tgt Ion:117 Resp: 187660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.8 | 41.8 | 62.8 |
| 119 | 31.6 | 26.0 | 39.0 |



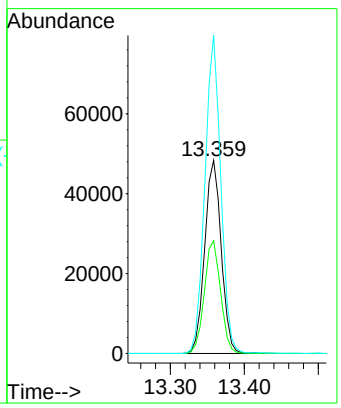



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.359 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020946.D
Acq: 27 Jan 2025 14:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01

Tgt Ion:152 Resp: 75046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.4 | 29.0 | 87.0 |
| 150 | 158.3 | 0.0 | 347.6 |



Sample Results: **VY020946.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020946.D
Acq On : 27 Jan 2025 14:24
Operator : SY/MD
Sample : Q1194-01
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01

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\82Y012425S.M
Title : SW846 8260

Signal : TIC: VY020946.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.879 | 347 | 354 | 362 | rBV | 3708 | 9729 | 1.60% | 0.286% |
| 2 | 4.634 | 467 | 478 | 484 | rBV3 | 3873 | 10857 | 1.78% | 0.319% |
| 3 | 7.646 | 961 | 972 | 978 | rBV | 90642 | 223322 | 36.63% | 6.570% |
| 4 | 7.719 | 978 | 984 | 998 | rVB | 190427 | 430365 | 70.58% | 12.662% |
| 5 | 8.073 | 1031 | 1042 | 1054 | rBV2 | 76668 | 174906 | 28.69% | 5.146% |
| 6 | 8.622 | 1124 | 1132 | 1143 | rBV | 254243 | 523699 | 85.89% | 15.408% |
| 7 | 10.115 | 1370 | 1377 | 1388 | rBV | 351904 | 609738 | 100.00% | 17.939% |
| 8 | 11.426 | 1583 | 1592 | 1604 | rBV | 337303 | 547912 | 89.86% | 16.120% |
| 9 | 11.816 | 1650 | 1656 | 1666 | rBV4 | 2278 | 6100 | 1.00% | 0.179% |
| 10 | 12.420 | 1748 | 1755 | 1764 | rBV2 | 216798 | 378064 | 62.00% | 11.123% |
| 11 | 13.359 | 1902 | 1909 | 1919 | rVB | 283105 | 430675 | 70.63% | 12.671% |
| 12 | 13.895 | 1991 | 1997 | 2004 | rVB2 | 33647 | 53493 | 8.77% | 1.574% |

Sum of corrected areas: 3398860

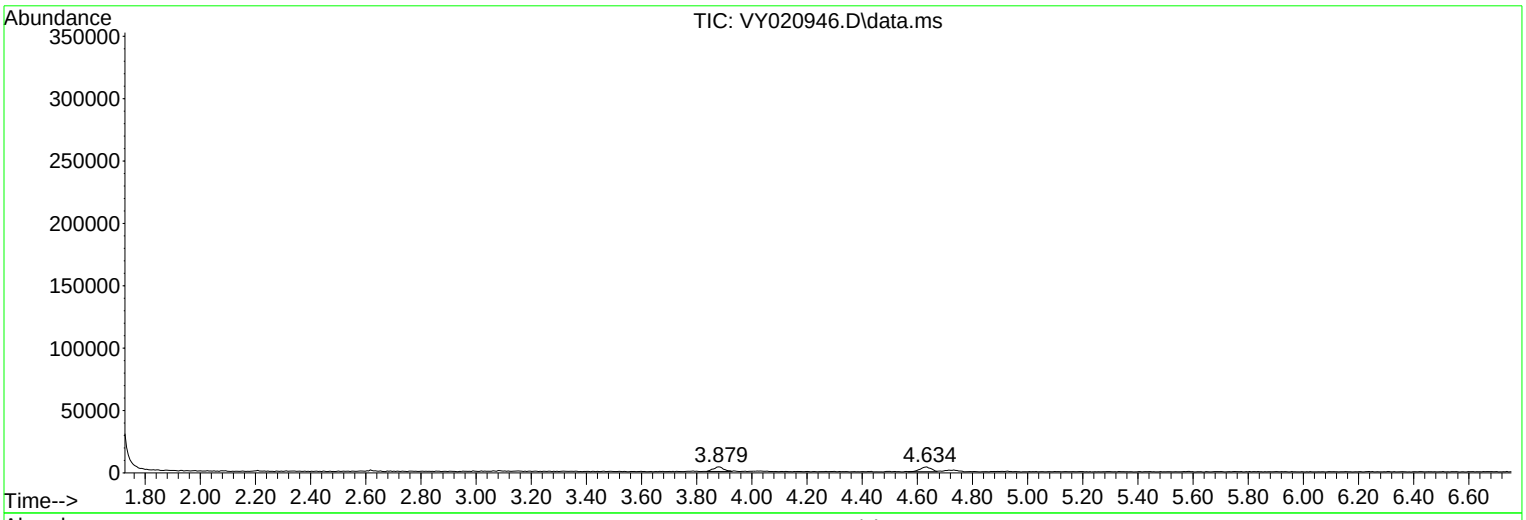
Sample Results: **VY020946.D**

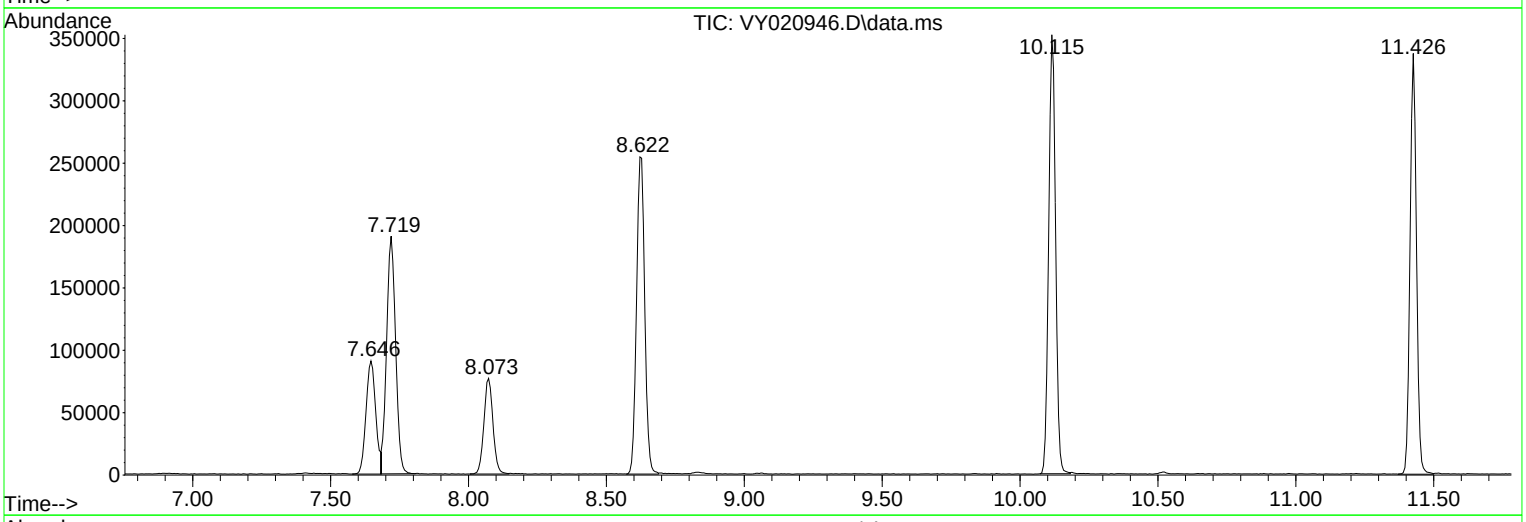
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020946.D
Acq On : 27 Jan 2025 14:24
Operator : SY/MD
Sample : Q1194-01
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

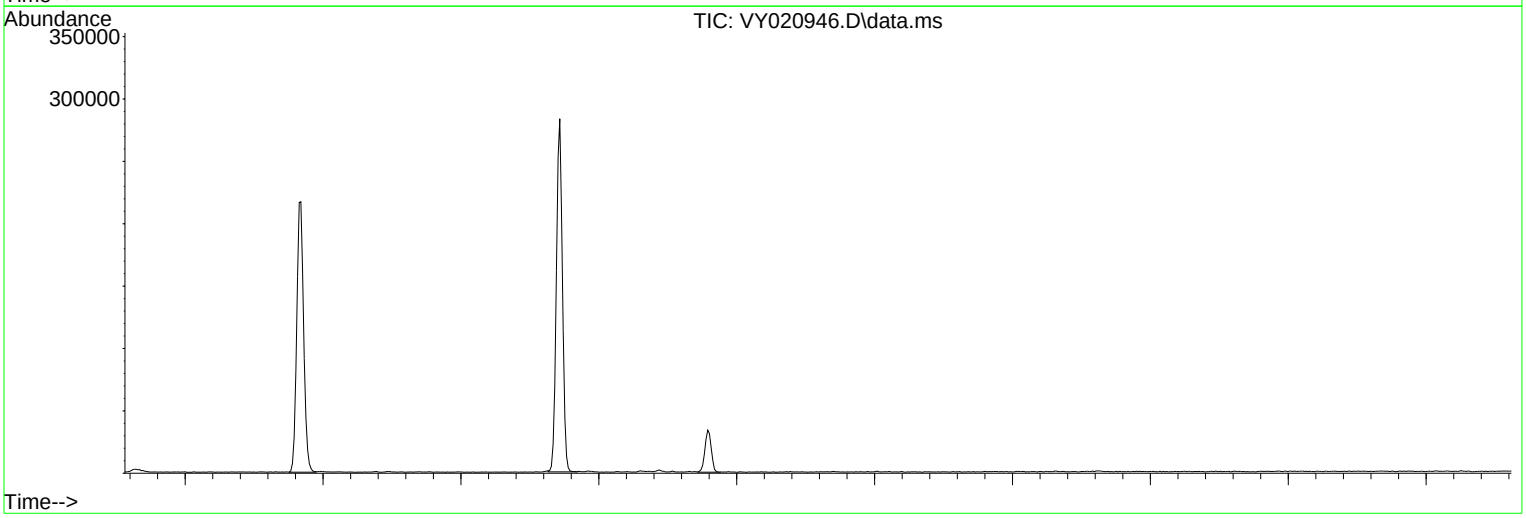
**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY020946.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020946.D
Acq On : 27 Jan 2025 14:24
Operator : SY/MD
Sample : Q1194-01
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Sample Results: **VY020946.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020946.D
Acq On : 27 Jan 2025 14:24
Operator : SY/MD
Sample : Q1194-01
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.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: **VY020950.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | B-110-SB01RE | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-01RE | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 88.3 |
| Sample Wt/Vol: | 7.98 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020950.D | 1 | | 01/27/25 16:01 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.20 | U | 1.20 | 3.50 | ug/Kg |
| 74-87-3 | Chloromethane | 0.82 | U | 0.82 | 3.50 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.55 | U | 0.55 | 3.50 | ug/Kg |
| 74-83-9 | Bromomethane | 0.73 | U | 0.73 | 3.50 | ug/Kg |
| 75-00-3 | Chloroethane | 0.72 | U | 0.72 | 3.50 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.65 | U | 0.65 | 3.50 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.76 | U | 0.76 | 3.50 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.55 | U | 0.55 | 3.50 | ug/Kg |
| 67-64-1 | Acetone | 55.1 | | 4.40 | 17.7 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 0.91 | U | 0.91 | 3.50 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.48 | U | 0.48 | 3.50 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.30 | U | 1.30 | 3.50 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.40 | U | 2.40 | 7.10 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.60 | U | 0.60 | 3.50 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.45 | U | 0.45 | 3.50 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.49 | U | 0.49 | 3.50 | ug/Kg |
| 78-93-3 | 2-Butanone | 4.00 | U | 4.00 | 17.7 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.62 | U | 0.62 | 3.50 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.43 | U | 0.43 | 3.50 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.70 | U | 1.70 | 3.50 | ug/Kg |
| 67-66-3 | Chloroform | 0.48 | U | 0.48 | 3.50 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.55 | U | 0.55 | 3.50 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.62 | U | 0.62 | 3.50 | ug/Kg |
| 71-43-2 | Benzene | 0.51 | U | 0.51 | 3.50 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.43 | U | 0.43 | 3.50 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.53 | U | 0.53 | 3.50 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.47 | U | 0.47 | 3.50 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.40 | U | 0.40 | 3.50 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.10 | U | 3.10 | 17.7 | ug/Kg |
| 108-88-3 | Toluene | 0.48 | U | 0.48 | 3.50 | ug/Kg |

Raw Data: **VY020950.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | B-110-SB01RE | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-01RE | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 88.3 |
| Sample Wt/Vol: | 7.98 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020950.D | 1 | | 01/27/25 16:01 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.43 | U | 0.43 | 3.50 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.40 | U | 0.40 | 3.50 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.60 | U | 0.60 | 3.50 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.40 | U | 3.40 | 17.7 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.46 | U | 0.46 | 3.50 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.56 | U | 0.56 | 3.50 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.63 | U | 0.63 | 3.50 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.53 | U | 0.53 | 3.50 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.44 | U | 0.44 | 3.50 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 0.96 | U | 0.96 | 7.10 | ug/Kg |
| 95-47-6 | o-Xylene | 0.50 | U | 0.50 | 3.50 | ug/Kg |
| 100-42-5 | Styrene | 0.43 | U | 0.43 | 3.50 | ug/Kg |
| 75-25-2 | Bromoform | 0.57 | U | 0.57 | 3.50 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.48 | U | 0.48 | 3.50 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.78 | U | 0.78 | 3.50 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.53 | U | 0.53 | 3.50 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.57 | U | 0.57 | 3.50 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.42 | U | 0.42 | 3.50 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.10 | U | 1.10 | 3.50 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.56 | U | 0.56 | 3.50 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.55 | U | 0.55 | 3.50 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 65.1 | | 70 (50) - 130 (163) | 130% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 60.2 | | 70 (54) - 130 (147) | 120% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.2 | | 70 (58) - 130 (134) | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 31.4 | * | 70 (29) - 130 (146) | 63% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 21100 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 30000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 22500 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 4580 | 13.352 | | | |

Raw Data: **VY020950.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | B-110-SB01RE | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-01RE | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 88.3 |
| Sample Wt/Vol: | 7.98 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020950.D | 1 | | 01/27/25 16:01 | VY012725 |

| 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

Quantitation Report (QT Reviewed)

Sample Results: **VY020950.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020950.D
Acq On : 27 Jan 2025 16:01
Operator : SY/MD
Sample : Q1194-01RE
Misc : 7.98g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01RE

Quant Time: Jan 28 01:14:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 21135 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 29996 | 50.000 | ug/l | -0.01 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 22466 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 4581 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 10970 | 65.100 | ug/l | -0.01 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 130.200% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 10369 | 60.214 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 120.420% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 32166 | 48.157 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 96.320% | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 6970 | 31.355 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 62.700% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 3.879 | 43 | 1773 | 77.657 | ug/l # | 78 |

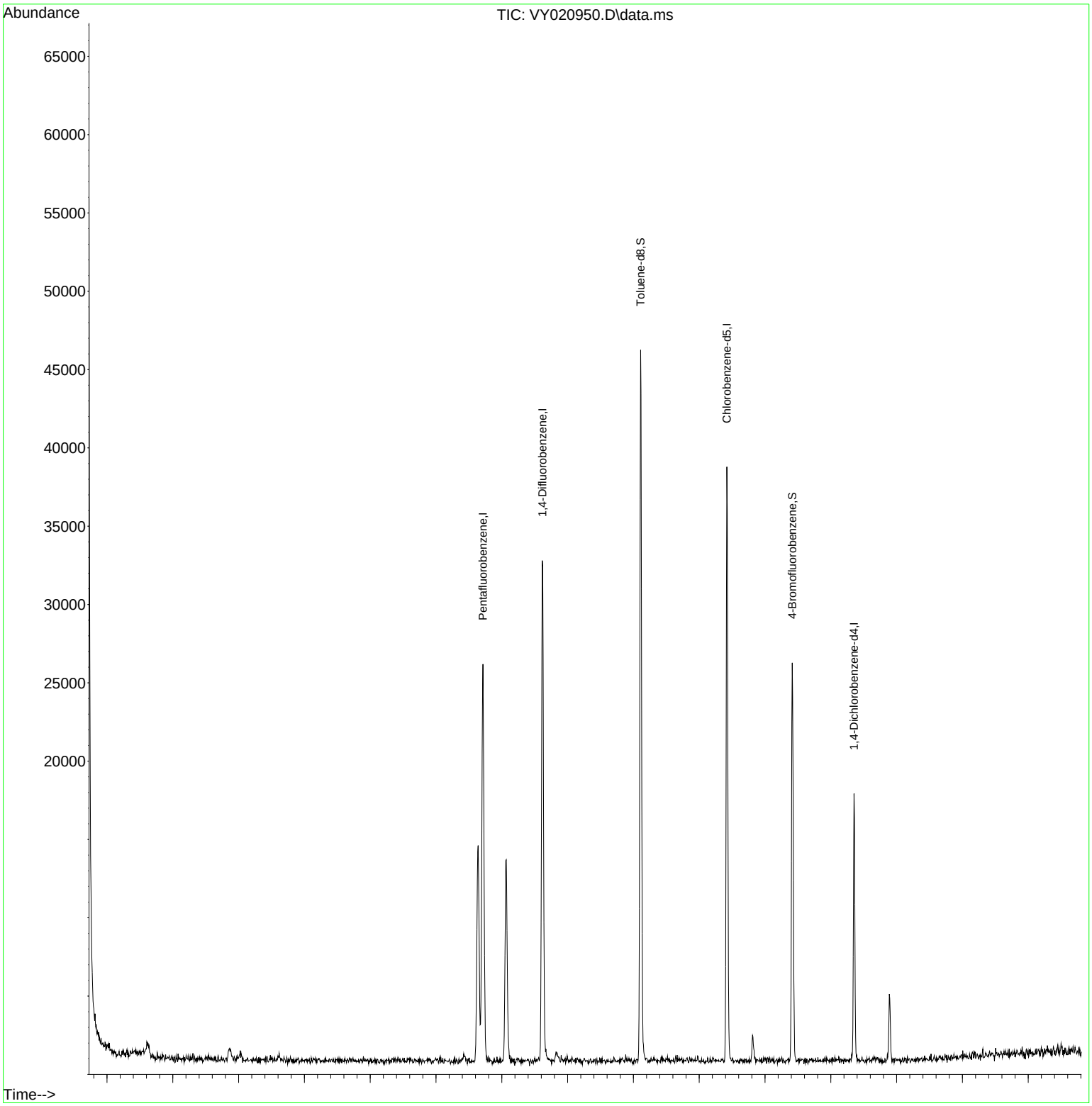
(#) = qualifier out of range (m) = manual integration (+) = signals summed

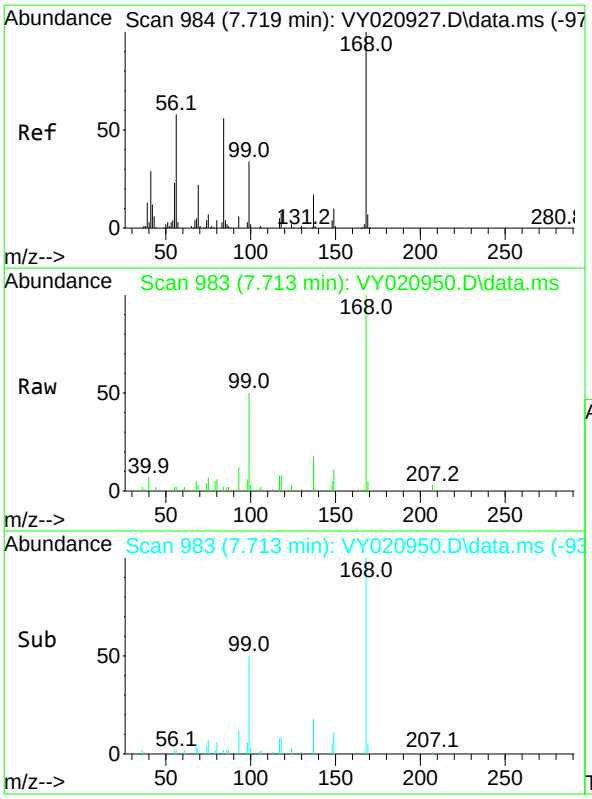
Sample Results: **VY020950.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020950.D
Acq On : 27 Jan 2025 16:01
Operator : SY/MD
Sample : Q1194-01RE
Misc : 7.98g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01RE

Quant Time: Jan 28 01:14:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration



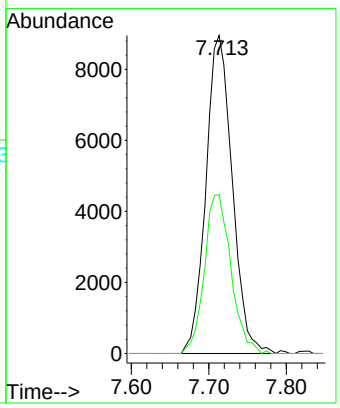


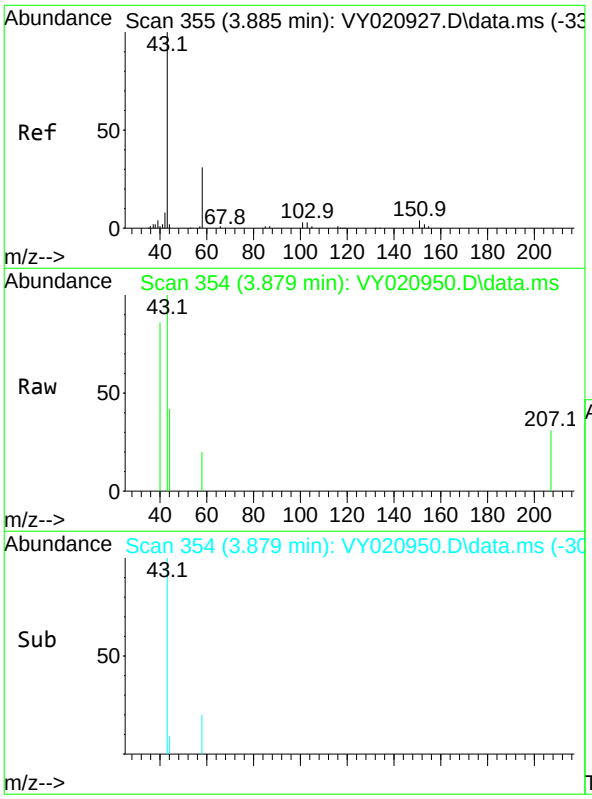

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020950.D
Acq: 27 Jan 2025 16:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01RE

Tgt Ion:168 Resp: 21135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 50.0 | 43.0 | 64.6 |

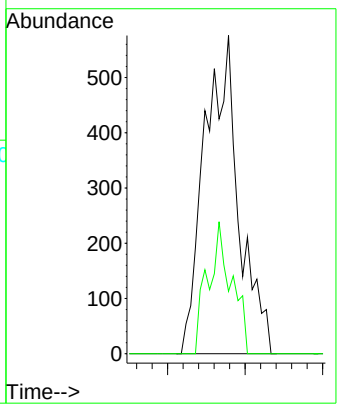


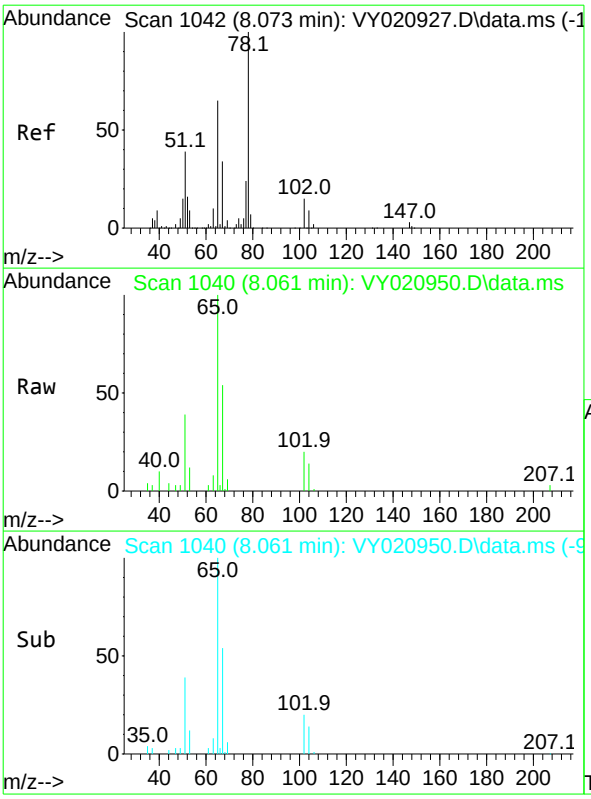




#16
Acetone
Concen: 77.657 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.006 min
Lab File: VY020950.D
Acq: 27 Jan 2025 16:01

Tgt Ion: 43 Resp: 1773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 19.6 | 25.6 | 38.4# |



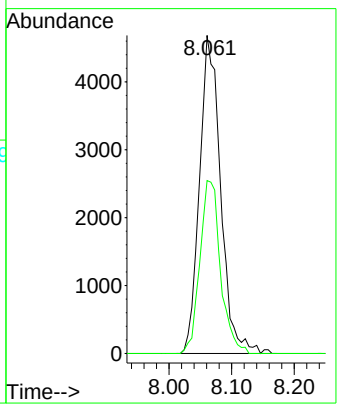


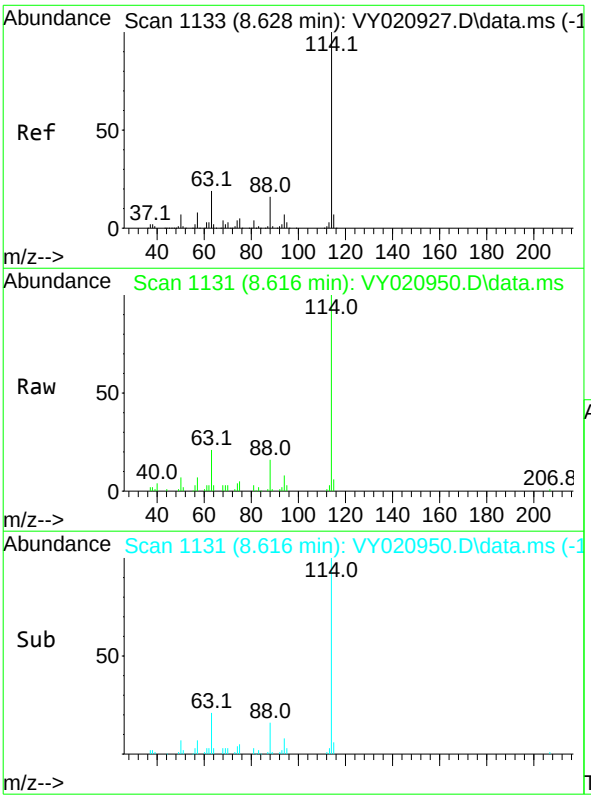

#33
1,2-Dichloroethane-d4
Concen: 65.100 ug/l
RT: 8.061 min Scan# 10
Delta R.T. -0.012 min
Lab File: VY020950.D
Acq: 27 Jan 2025 16:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01RE

Tgt Ion: 65 Resp: 10970

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

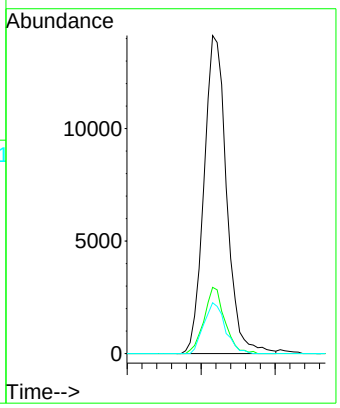


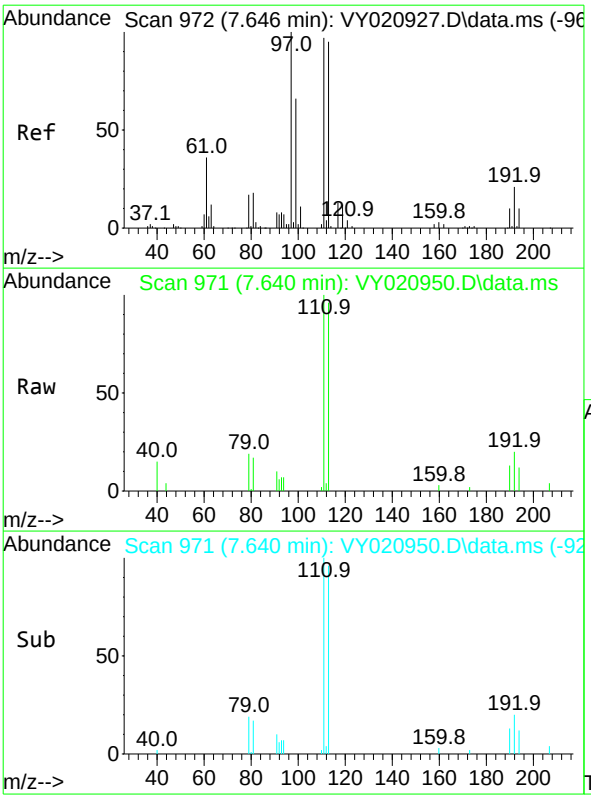




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.012 min
Lab File: VY020950.D
Acq: 27 Jan 2025 16:01

Tgt Ion:114 Resp: 29996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.8 | 0.0 | 38.4 |
| 88 | 16.0 | 0.0 | 31.6 |



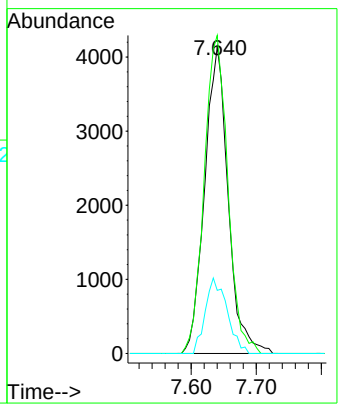


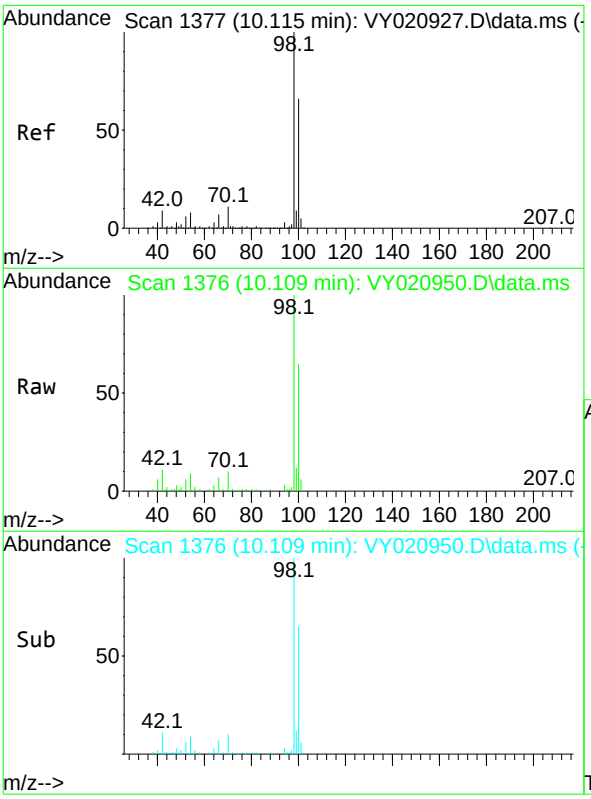

#35
Dibromofluoromethane
Concen: 60.214 ug/l
RT: 7.640 min Scan# 97
Delta R.T. -0.006 min
Lab File: VY020950.D
Acq: 27 Jan 2025 16:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01RE

Tgt Ion:113 Resp: 10369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.1 | 82.3 | 123.5 |
| 192 | 22.8 | 17.4 | 26.2 |

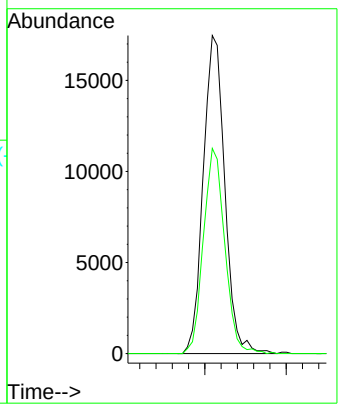


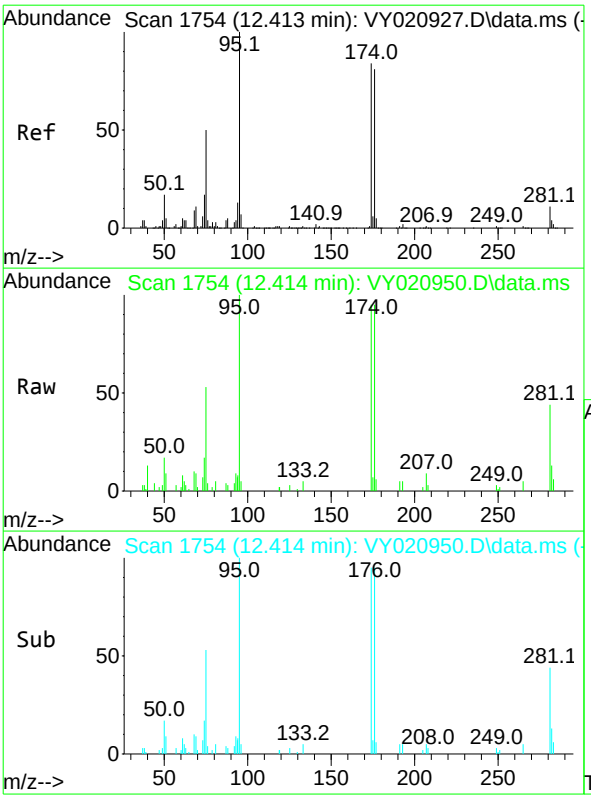




#50
Toluene-d8
Concen: 48.157 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VY020950.D
Acq: 27 Jan 2025 16:01

Tgt Ion: 98 Resp: 32166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.9 | 52.3 | 78.5 |



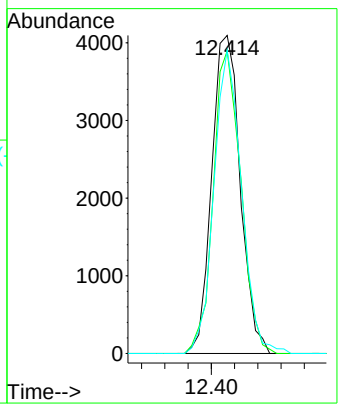


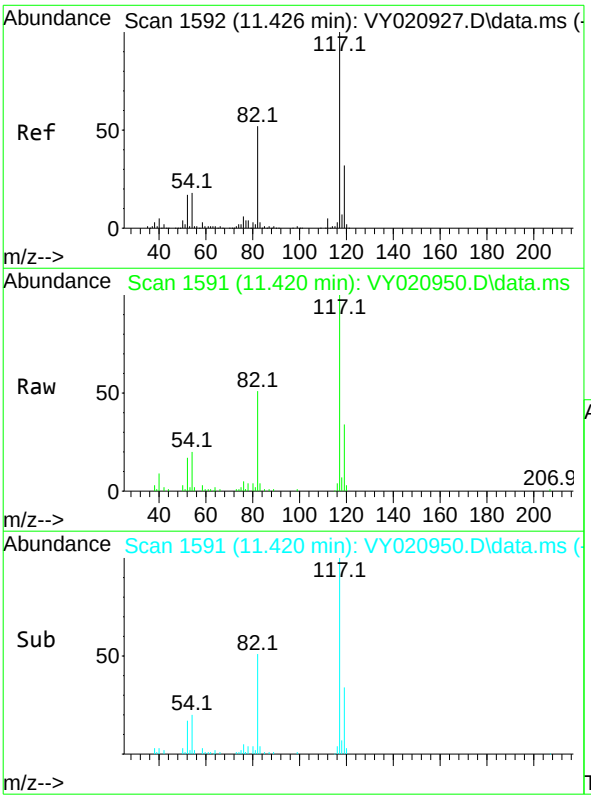

#62
4-Bromofluorobenzene
Concen: 31.355 ug/l
RT: 12.414 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020950.D
Acq: 27 Jan 2025 16:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01RE

Tgt Ion: 95 Resp: 6970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 92.2 | 0.0 | 177.4 |
| 176 | 92.2 | 0.0 | 172.2 |

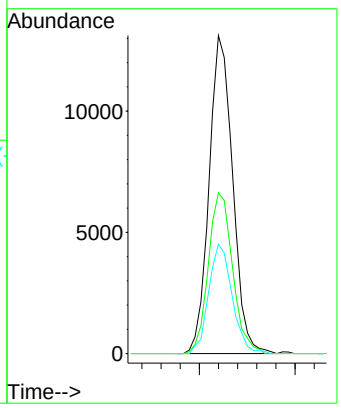


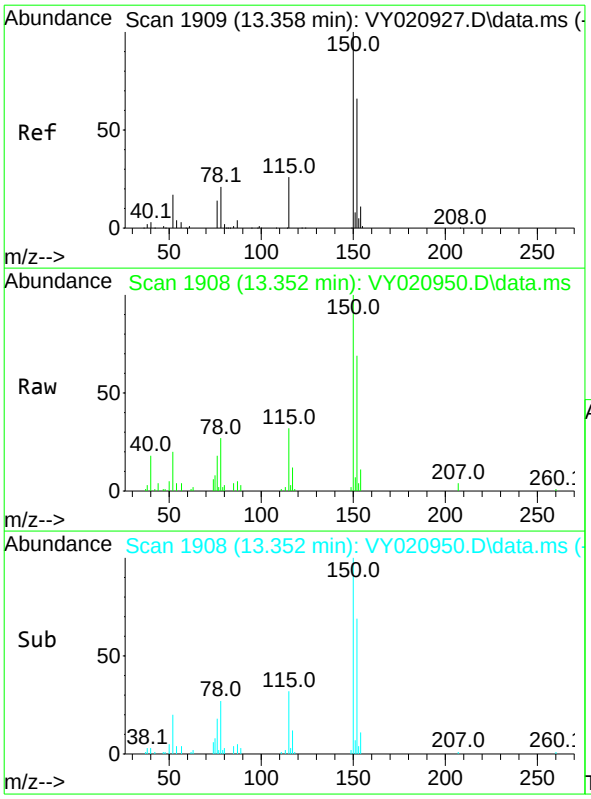




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.006 min
Lab File: VY020950.D
Acq: 27 Jan 2025 16:01

Tgt Ion:117 Resp: 22466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.6 | 41.8 | 62.8 |
| 119 | 34.4 | 26.0 | 39.0 |



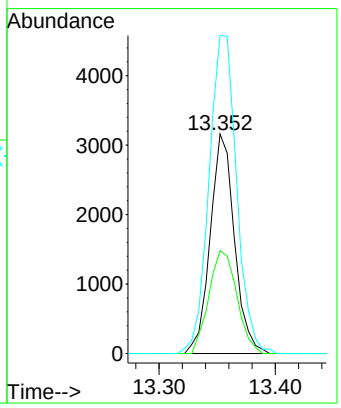



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 19
Delta R.T. -0.006 min
Lab File: VY020950.D
Acq: 27 Jan 2025 16:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB01RE

Tgt Ion:152 Resp: 4581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 54.0 | 29.0 | 87.0 |
| 150 | 165.1 | 0.0 | 347.6 |



Raw Data: **VY020947.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | B-110-SB02 | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-02 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 57 |
| Sample Wt/Vol: | 5.72 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020947.D | 1 | | 01/27/25 14:47 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 2.50 | U | 2.50 | 7.70 | ug/Kg |
| 74-87-3 | Chloromethane | 1.80 | U | 1.80 | 7.70 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 1.20 | U | 1.20 | 7.70 | ug/Kg |
| 74-83-9 | Bromomethane | 1.60 | U | 1.60 | 7.70 | ug/Kg |
| 75-00-3 | Chloroethane | 1.50 | U | 1.50 | 7.70 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.40 | U | 1.40 | 7.70 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.60 | U | 1.60 | 7.70 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 1.20 | U | 1.20 | 7.70 | ug/Kg |
| 67-64-1 | Acetone | 120 | | 9.60 | 38.3 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 2.00 | U | 2.00 | 7.70 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 1.00 | U | 1.00 | 7.70 | ug/Kg |
| 79-20-9 | Methyl Acetate | 2.80 | U | 2.80 | 7.70 | ug/Kg |
| 75-09-2 | Methylene Chloride | 5.20 | U | 5.20 | 15.3 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 1.30 | U | 1.30 | 7.70 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.97 | U | 0.97 | 7.70 | ug/Kg |
| 110-82-7 | Cyclohexane | 1.10 | U | 1.10 | 7.70 | ug/Kg |
| 78-93-3 | 2-Butanone | 8.70 | U | 8.70 | 38.3 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.30 | U | 1.30 | 7.70 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.94 | U | 0.94 | 7.70 | ug/Kg |
| 74-97-5 | Bromochloromethane | 3.70 | U | 3.70 | 7.70 | ug/Kg |
| 67-66-3 | Chloroform | 1.00 | U | 1.00 | 7.70 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.20 | U | 1.20 | 7.70 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.30 | U | 1.30 | 7.70 | ug/Kg |
| 71-43-2 | Benzene | 1.10 | U | 1.10 | 7.70 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.94 | U | 0.94 | 7.70 | ug/Kg |
| 79-01-6 | Trichloroethene | 1.20 | U | 1.20 | 7.70 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 1.00 | U | 1.00 | 7.70 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.86 | U | 0.86 | 7.70 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 6.70 | U | 6.70 | 38.3 | ug/Kg |
| 108-88-3 | Toluene | 1.00 | U | 1.00 | 7.70 | ug/Kg |

Raw Data: **VY020947.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | B-110-SB02 | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-02 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 57 |
| Sample Wt/Vol: | 5.72 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020947.D | 1 | | 01/27/25 14:47 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.92 | U | 0.92 | 7.70 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.87 | U | 0.87 | 7.70 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 1.30 | U | 1.30 | 7.70 | ug/Kg |
| 591-78-6 | 2-Hexanone | 7.30 | U | 7.30 | 38.3 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 1.00 | U | 1.00 | 7.70 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 1.20 | U | 1.20 | 7.70 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.40 | U | 1.40 | 7.70 | ug/Kg |
| 108-90-7 | Chlorobenzene | 1.10 | U | 1.10 | 7.70 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.95 | U | 0.95 | 7.70 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 2.10 | U | 2.10 | 15.3 | ug/Kg |
| 95-47-6 | o-Xylene | 1.10 | U | 1.10 | 7.70 | ug/Kg |
| 100-42-5 | Styrene | 0.92 | U | 0.92 | 7.70 | ug/Kg |
| 75-25-2 | Bromoform | 1.20 | U | 1.20 | 7.70 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 1.00 | U | 1.00 | 7.70 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.70 | U | 1.70 | 7.70 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.10 | U | 1.10 | 7.70 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.20 | U | 1.20 | 7.70 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.90 | U | 0.90 | 7.70 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.40 | U | 2.40 | 7.70 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.20 | U | 1.20 | 7.70 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.20 | U | 1.20 | 7.70 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 44.2 | | 70 (50) - 130 (163) | 88% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 45.9 | | 70 (54) - 130 (147) | 92% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 44.6 | | 70 (58) - 130 (134) | 89% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 33.9 | * | 70 (29) - 130 (146) | 68% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 382000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 583000 | 8.622 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 420000 | 11.426 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 153000 | 13.352 | | | |

Raw Data: **VY020947.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | B-110-SB02 | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-02 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 57 |
| Sample Wt/Vol: | 5.72 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020947.D | 1 | | 01/27/25 14:47 | VY012725 |

| 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

Quantitation Report (QT Reviewed)

Sample Results: **VY020947.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020947.D
Acq On : 27 Jan 2025 14:47
Operator : SY/MD
Sample : Q1194-02
Misc : 5.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB02

Quant Time: Jan 28 01:13:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 382024 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 583439 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 419826 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 153323 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 134752 | 44.240 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 88.480% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 153725 | 45.896 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 91.800% | | | |
| 50) Toluene-d8 | 10.115 | 98 | 578784 | 44.550 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 89.100% | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 146415 | 33.863 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 67.720% | | | |
| Target Compounds | | | | | | Qvalue |
| 11) Tert butyl alcohol | 4.860 | 59 | 2528 | 10.751 | ug/l # | 86 |
| 16) Acetone | 3.879 | 43 | 31891 | 77.277 | ug/l | 96 |
| 17) Carbon Disulfide | 4.116 | 76 | 11967 | 1.250 | ug/l | 100 |

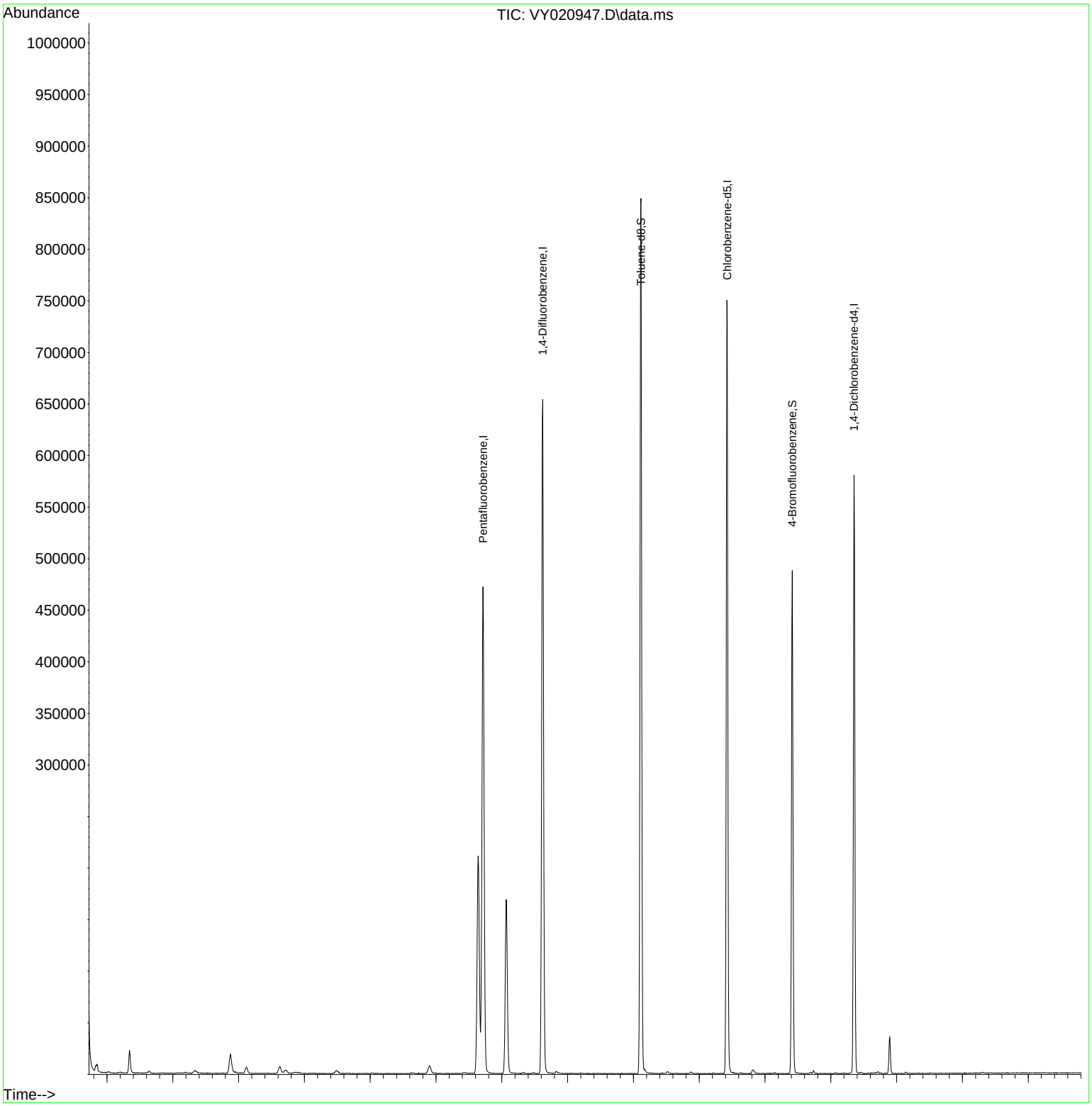
(#) = qualifier out of range (m) = manual integration (+) = signals summed

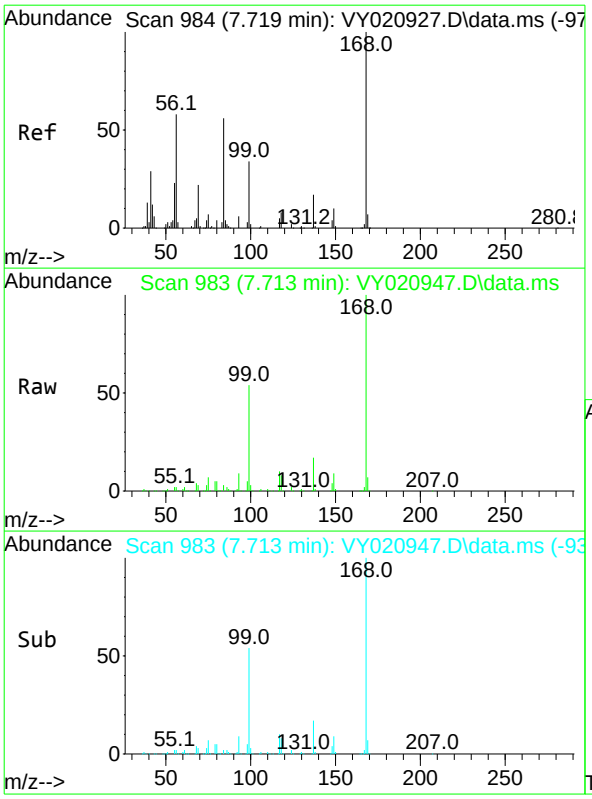
Sample Results: **VY020947.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020947.D
Acq On : 27 Jan 2025 14:47
Operator : SY/MD
Sample : Q1194-02
Misc : 5.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB02

Quant Time: Jan 28 01:13:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration



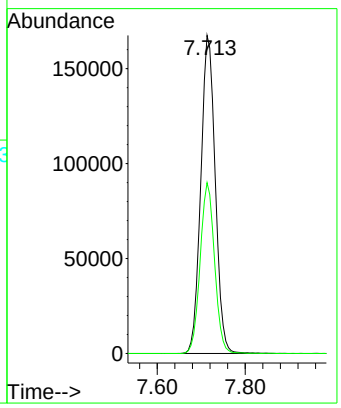


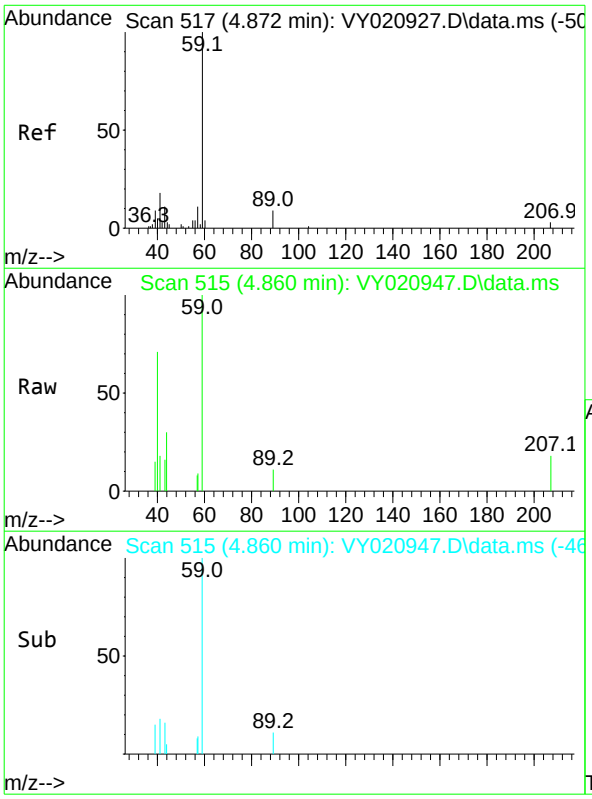

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020947.D
Acq: 27 Jan 2025 14:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB02

Tgt Ion:168 Resp: 382024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.7 | 43.0 | 64.6 |

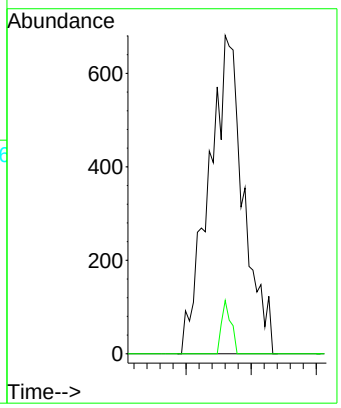


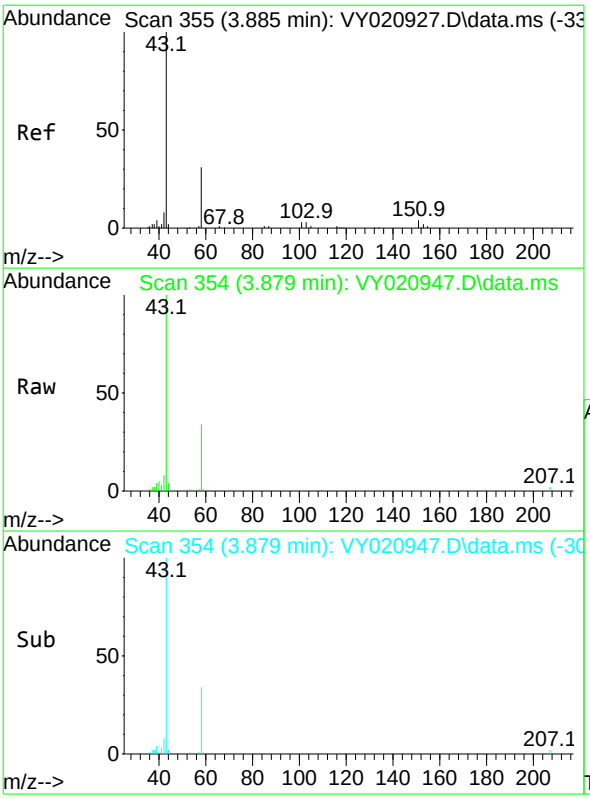




#11
Tert butyl alcohol
Concen: 10.751 ug/l
RT: 4.860 min Scan# 515
Delta R.T. -0.012 min
Lab File: VY020947.D
Acq: 27 Jan 2025 14:47

Tgt Ion: 59 Resp: 2528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 4.5 | 7.7 | 11.5# |



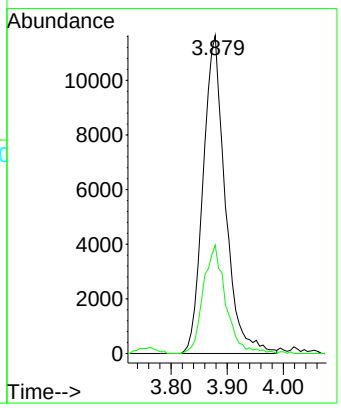


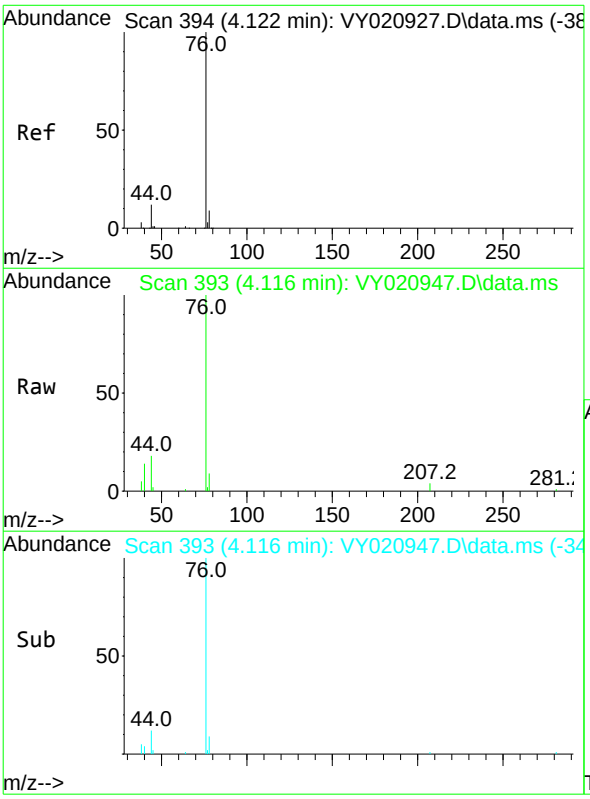

#16
Acetone
Concen: 77.277 ug/l
RT: 3.879 min Scan# 35
Delta R.T. -0.006 min
Lab File: VY020947.D
Acq: 27 Jan 2025 14:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB02

Tgt Ion: 43 Resp: 31891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.1 | 25.6 | 38.4 |

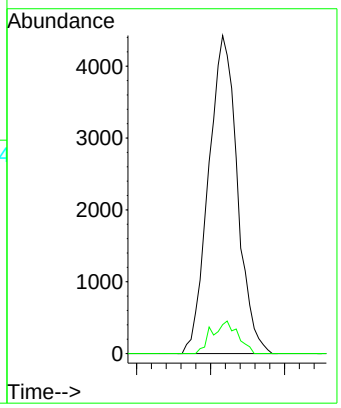


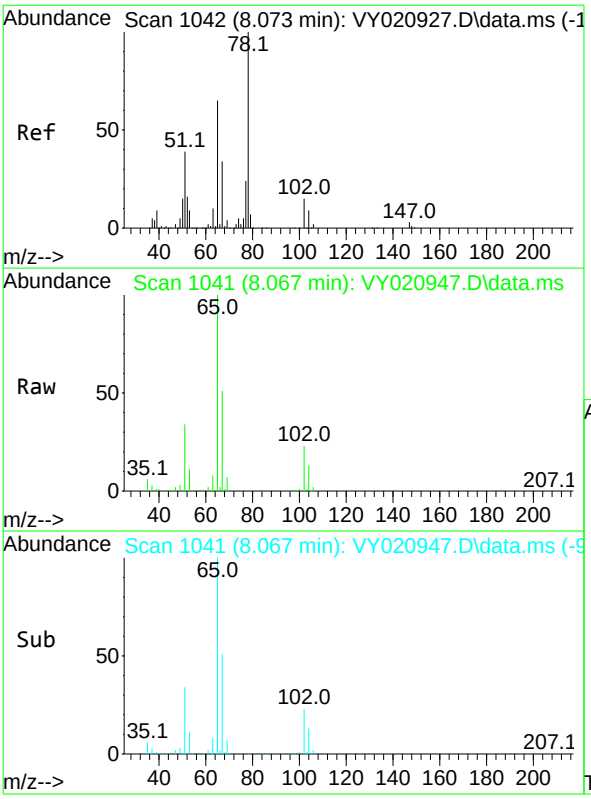




#17
Carbon Disulfide
Concen: 1.250 ug/l
RT: 4.116 min Scan# 393
Delta R.T. -0.006 min
Lab File: VY020947.D
Acq: 27 Jan 2025 14:47

Tgt Ion: 76 Resp: 11967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.2 | 10.8 |



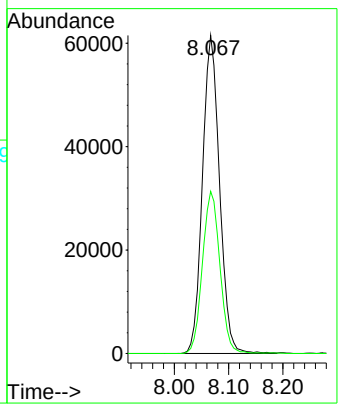


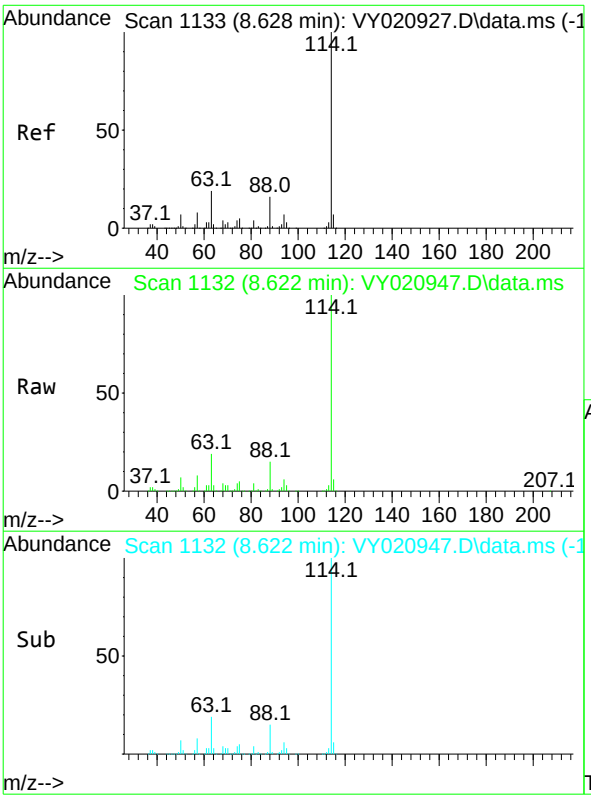

#33
1,2-Dichloroethane-d4
Concen: 44.240 ug/l
RT: 8.067 min Scan# 10
Delta R.T. -0.006 min
Lab File: VY020947.D
Acq: 27 Jan 2025 14:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB02

Tgt Ion: 65 Resp: 134752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.1 | 0.0 | 105.8 |

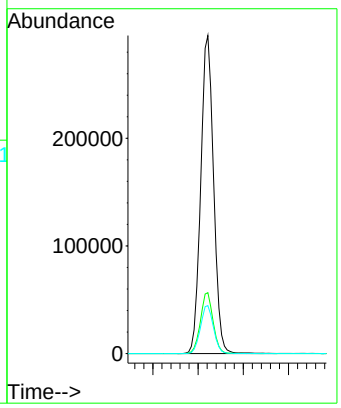


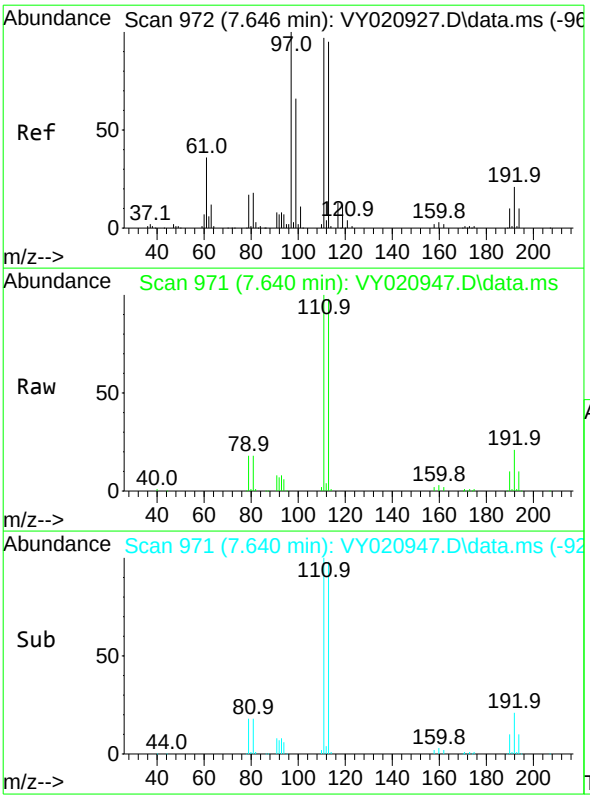




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020947.D
Acq: 27 Jan 2025 14:47

Tgt Ion:114 Resp: 583439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.2 | 0.0 | 38.4 |
| 88 | 15.1 | 0.0 | 31.6 |



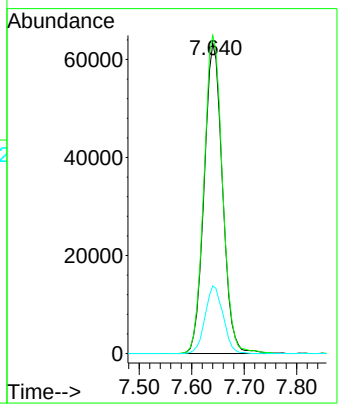


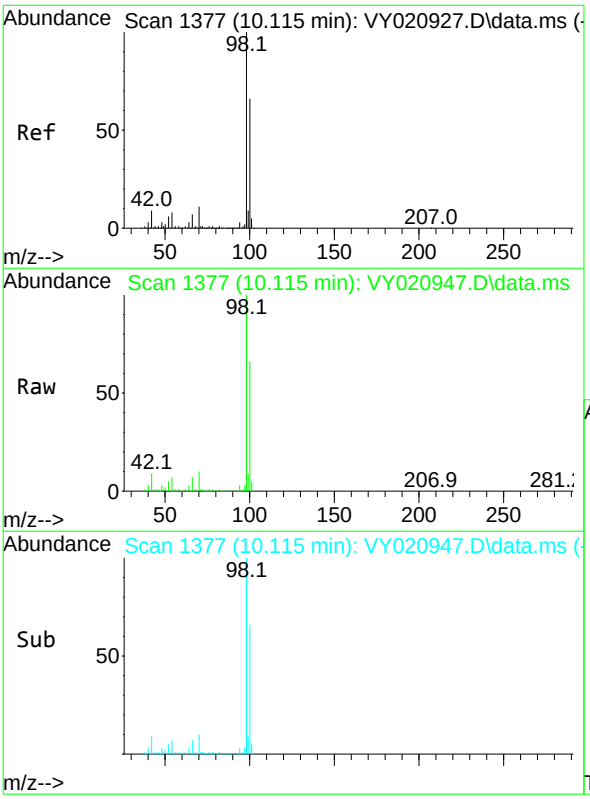

#35
Dibromofluoromethane
Concen: 45.896 ug/l
RT: 7.640 min Scan# 97
Delta R.T. -0.006 min
Lab File: VY020947.D
Acq: 27 Jan 2025 14:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB02

Tgt Ion:113 Resp: 153725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.8 | 82.3 | 123.5 |
| 192 | 21.3 | 17.4 | 26.2 |

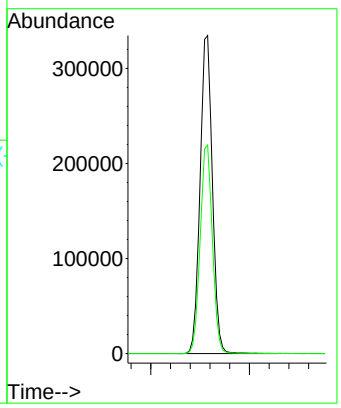


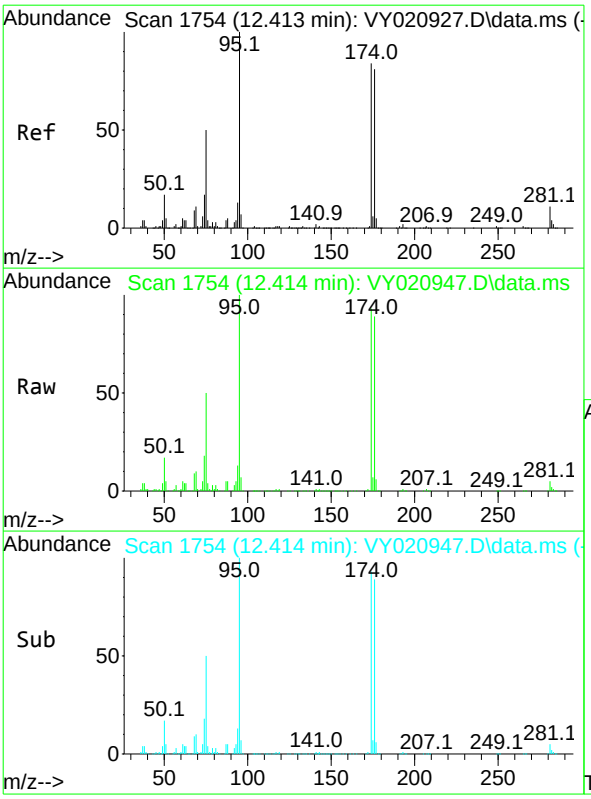




#50
Toluene-d8
Concen: 44.550 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020947.D
Acq: 27 Jan 2025 14:47

Tgt Ion: 98 Resp: 578784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 52.3 | 78.5 |



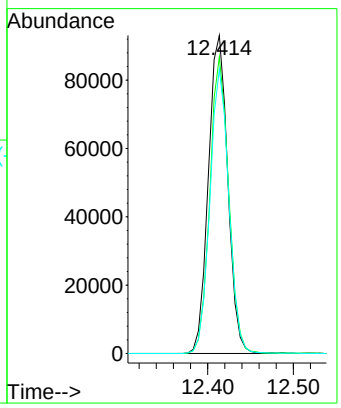


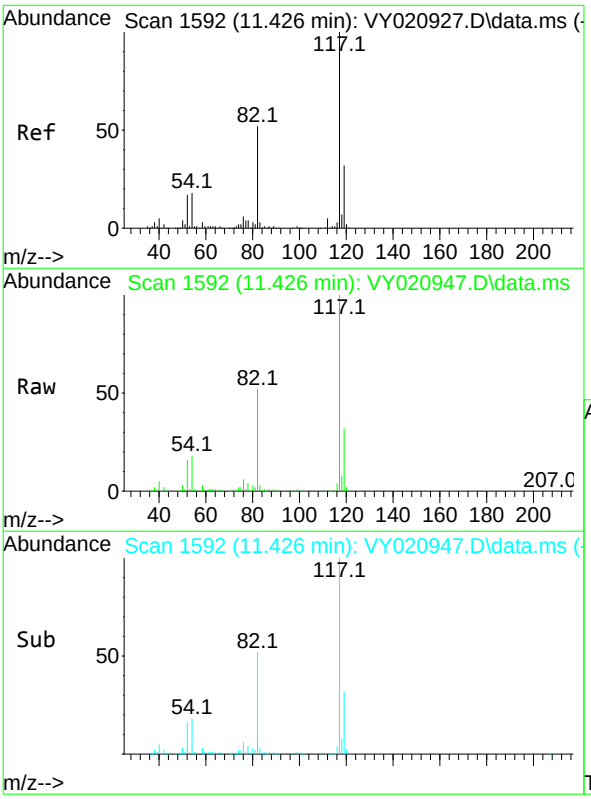

#62
4-Bromofluorobenzene
Concen: 33.863 ug/l
RT: 12.414 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020947.D
Acq: 27 Jan 2025 14:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB02

Tgt Ion: 95 Resp: 146415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 90.4 | 0.0 | 177.4 |
| 176 | 87.4 | 0.0 | 172.2 |

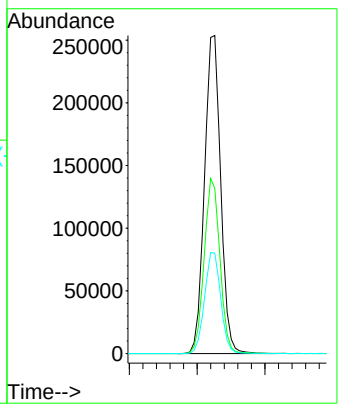


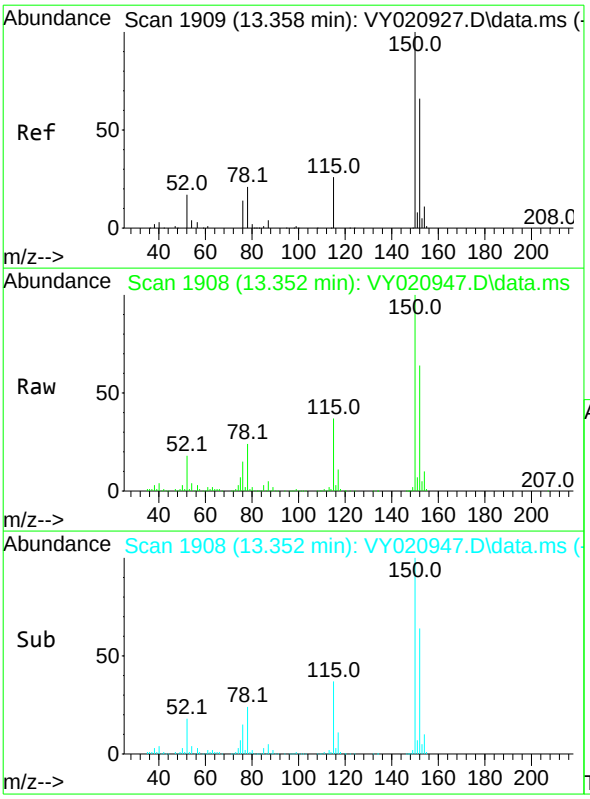




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1592
Delta R.T. 0.000 min
Lab File: VY020947.D
Acq: 27 Jan 2025 14:47

Tgt Ion:117 Resp: 419826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 51.9 | 41.8 | 62.8 |
| 119 | 31.6 | 26.0 | 39.0 |



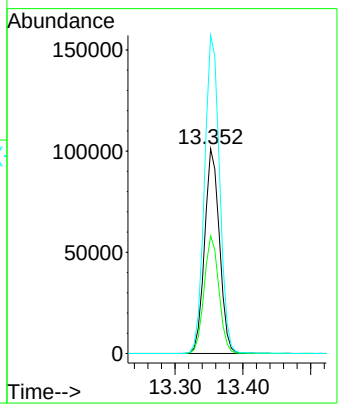



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 19
Delta R.T. -0.006 min
Lab File: VY020947.D
Acq: 27 Jan 2025 14:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB02

Tgt Ion:152 Resp: 153323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.1 | 29.0 | 87.0 |
| 150 | 157.6 | 0.0 | 347.6 |



Sample Results: **VY020947.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020947.D
Acq On : 27 Jan 2025 14:47
Operator : SY/MD
Sample : Q1194-02
Misc : 5.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB02

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\82Y012425S.M
Title : SW846 8260

Signal : TIC: VY020947.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.342 | 96 | 102 | 114 | rVB | 21933 | 38819 | 2.63% | 0.496% |
| 2 | 3.879 | 345 | 354 | 363 | rBV | 18478 | 49551 | 3.35% | 0.633% |
| 3 | 4.116 | 385 | 393 | 403 | rBV2 | 5956 | 16025 | 1.08% | 0.205% |
| 4 | 4.628 | 465 | 477 | 485 | rBV2 | 6732 | 20280 | 1.37% | 0.259% |
| 5 | 6.902 | 837 | 850 | 860 | rBV4 | 7417 | 23411 | 1.58% | 0.299% |
| 6 | 7.640 | 961 | 971 | 977 | rBV | 210828 | 513845 | 34.76% | 6.566% |
| 7 | 7.713 | 977 | 983 | 999 | rVB | 471478 | 1067072 | 72.18% | 13.636% |
| 8 | 8.067 | 1031 | 1041 | 1056 | rBV2 | 168859 | 378231 | 25.58% | 4.833% |
| 9 | 8.622 | 1123 | 1132 | 1146 | rBV | 653431 | 1289460 | 87.22% | 16.478% |
| 10 | 10.115 | 1367 | 1377 | 1385 | rBV | 848620 | 1478371 | 100.00% | 18.892% |
| 11 | 11.420 | 1584 | 1591 | 1605 | rBV | 749868 | 1227671 | 83.04% | 15.688% |
| 12 | 12.414 | 1746 | 1754 | 1763 | rBV | 487743 | 779444 | 52.72% | 9.960% |
| 13 | 13.352 | 1896 | 1908 | 1919 | rBV | 580487 | 886209 | 59.94% | 11.325% |
| 14 | 13.895 | 1989 | 1997 | 2005 | rBV2 | 34965 | 57012 | 3.86% | 0.729% |

Sum of corrected areas: 7825401

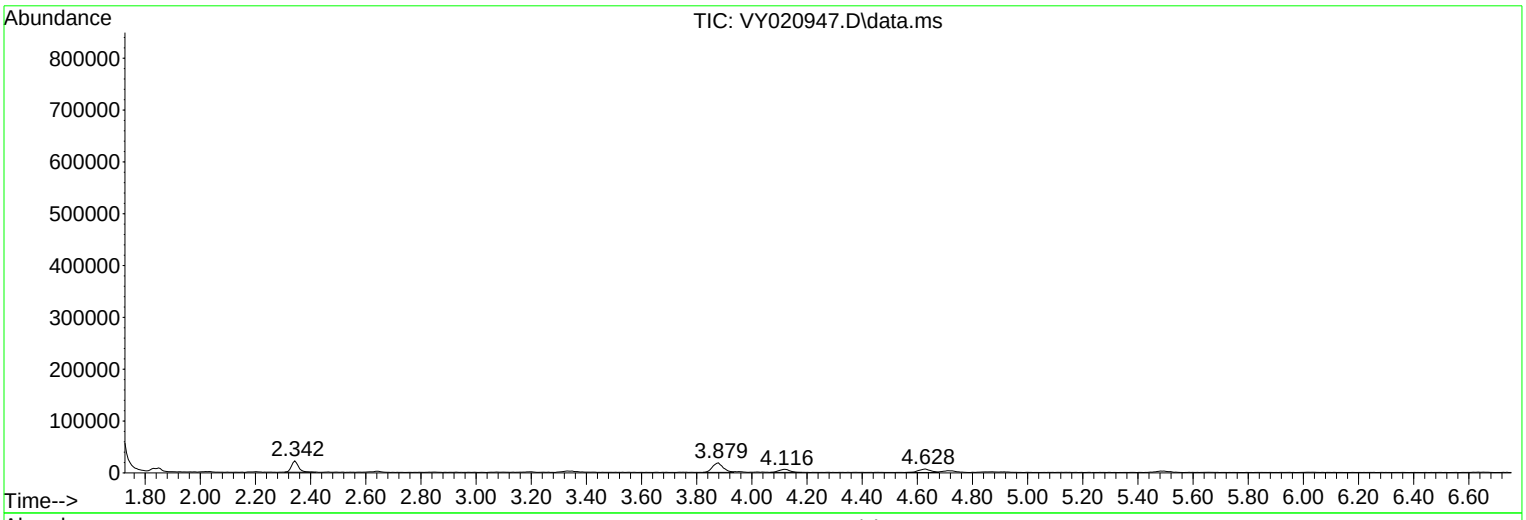
Sample Results: **VY020947.D**

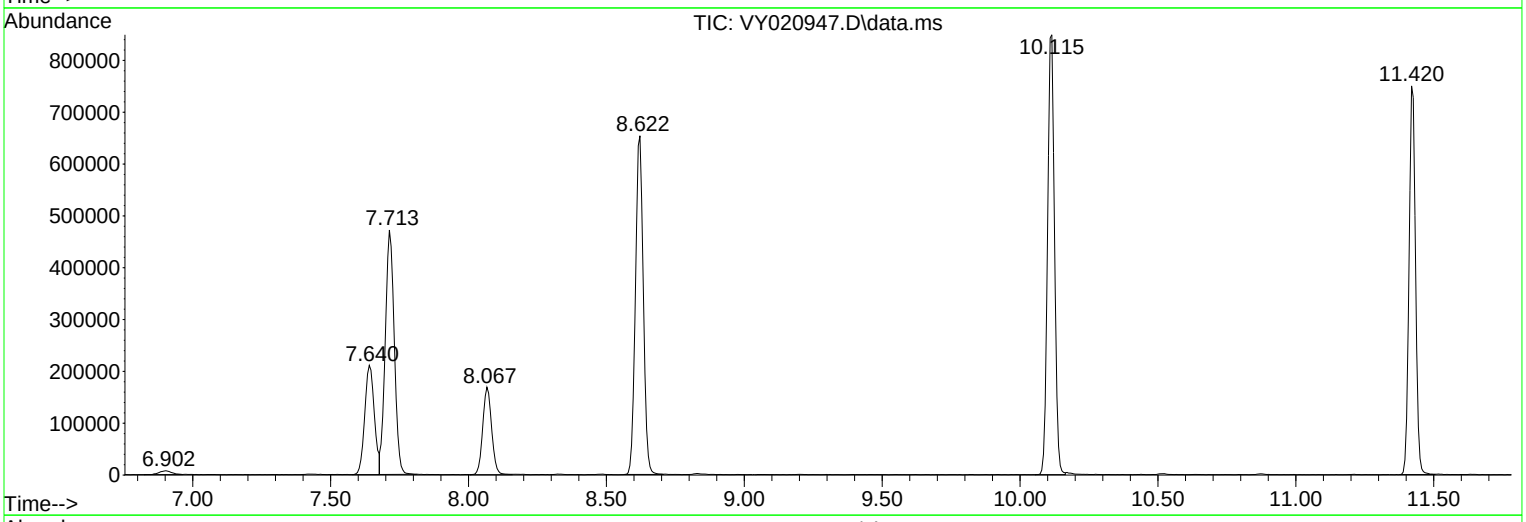
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020947.D
Acq On : 27 Jan 2025 14:47
Operator : SY/MD
Sample : Q1194-02
Misc : 5.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

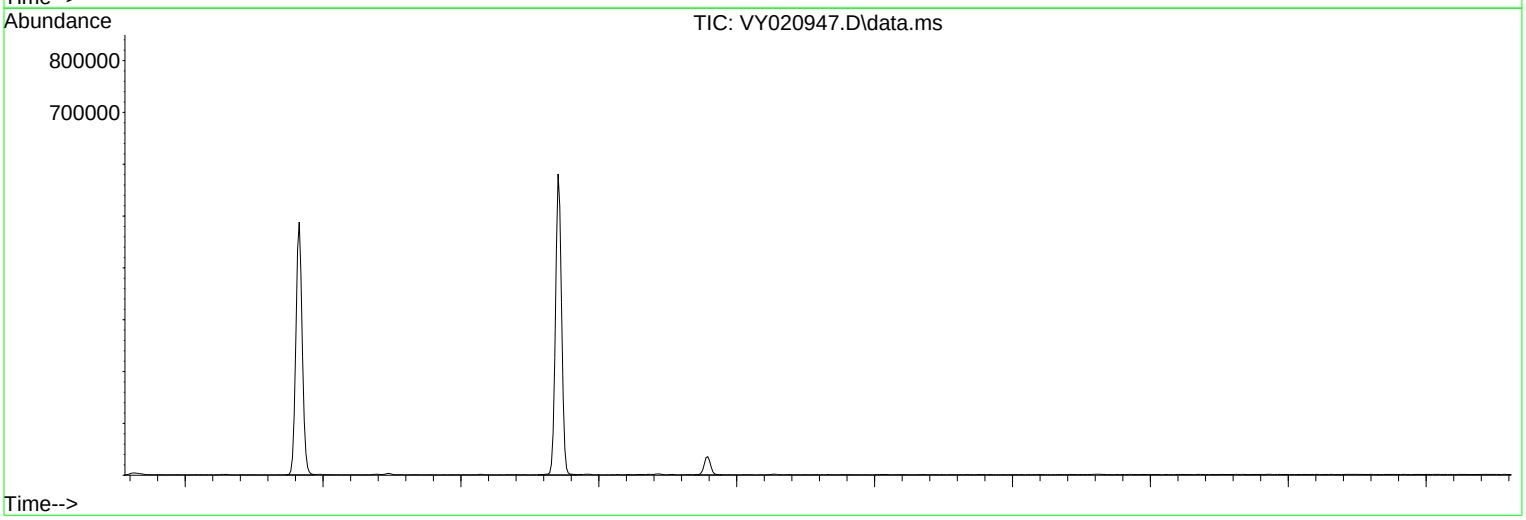
**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY020947.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020947.D
Acq On : 27 Jan 2025 14:47
Operator : SY/MD
Sample : Q1194-02
Misc : 5.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Sample Results: **VY020947.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020947.D
Acq On : 27 Jan 2025 14:47
Operator : SY/MD
Sample : Q1194-02
Misc : 5.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-110-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.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: **VY020951.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | B-113-SB01 | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 86.9 |
| Sample Wt/Vol: | 7.18 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020951.D | 1 | | 01/27/25 16:24 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.30 | U | 1.30 | 4.00 | ug/Kg |
| 74-87-3 | Chloromethane | 0.93 | U | 0.93 | 4.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.62 | U | 0.62 | 4.00 | ug/Kg |
| 74-83-9 | Bromomethane | 0.83 | U | 0.83 | 4.00 | ug/Kg |
| 75-00-3 | Chloroethane | 0.81 | U | 0.81 | 4.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.73 | U | 0.73 | 4.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.86 | U | 0.86 | 4.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| 67-64-1 | Acetone | 5.00 | U | 5.00 | 20.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.00 | U | 1.00 | 4.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.54 | U | 0.54 | 4.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.40 | U | 1.40 | 4.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.70 | U | 2.70 | 8.00 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.67 | U | 0.67 | 4.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U | 0.50 | 4.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.55 | U | 0.55 | 4.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 4.60 | U | 4.60 | 20.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.70 | U | 0.70 | 4.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.49 | U | 0.49 | 4.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.90 | U | 1.90 | 4.00 | ug/Kg |
| 67-66-3 | Chloroform | 0.54 | U | 0.54 | 4.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.70 | U | 0.70 | 4.00 | ug/Kg |
| 71-43-2 | Benzene | 0.58 | U | 0.58 | 4.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.49 | U | 0.49 | 4.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.60 | U | 0.60 | 4.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.53 | U | 0.53 | 4.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.45 | U | 0.45 | 4.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.50 | U | 3.50 | 20.0 | ug/Kg |
| 108-88-3 | Toluene | 0.54 | U | 0.54 | 4.00 | ug/Kg |

Raw Data: **VY020951.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | B-113-SB01 | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 86.9 |
| Sample Wt/Vol: | 7.18 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020951.D | 1 | | 01/27/25 16:24 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.48 | U | 0.48 | 4.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.46 | U | 0.46 | 4.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.67 | U | 0.67 | 4.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.80 | U | 3.80 | 20.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.52 | U | 0.52 | 4.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.71 | U | 0.71 | 4.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.59 | U | 0.59 | 4.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.50 | U | 0.50 | 4.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.10 | U | 1.10 | 8.00 | ug/Kg |
| 95-47-6 | o-Xylene | 0.56 | U | 0.56 | 4.00 | ug/Kg |
| 100-42-5 | Styrene | 0.48 | U | 0.48 | 4.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.65 | U | 0.65 | 4.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.54 | U | 0.54 | 4.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.88 | U | 0.88 | 4.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.59 | U | 0.59 | 4.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.64 | U | 0.64 | 4.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.47 | U | 0.47 | 4.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.30 | U | 1.30 | 4.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 47.8 | | 70 (50) - 130 (163) | 96% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 47.6 | | 70 (54) - 130 (147) | 95% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.1 | | 70 (58) - 130 (134) | 94% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.7 | | 70 (29) - 130 (146) | 87% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 428000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 667000 | 8.615 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 539000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 250000 | 13.352 | | | |

Raw Data: **VY020951.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | B-113-SB01 | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 86.9 |
| Sample Wt/Vol: | 7.18 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020951.D | 1 | | 01/27/25 16:24 | VY012725 |

| 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

Quantitation Report (QT/LSC Reviewed)

Sample Results: **VY020951.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020951.D
Acq On : 27 Jan 2025 16:24
Operator : SY/MD
Sample : Q1194-03
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB01

Quant Time: Jan 28 01:15:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 427947 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 666781 | 50.000 | ug/l | -0.01 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 538661 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 250424 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 163199 | 47.830 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 95.660% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 182113 | 47.575 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 95.160% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 699677 | 47.124 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 94.240% | | | |
| 62) 4-Bromofluorobenzene | 12.407 | 95 | 216063 | 43.725 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 87.460% | | | |

Target Compounds Qvalue

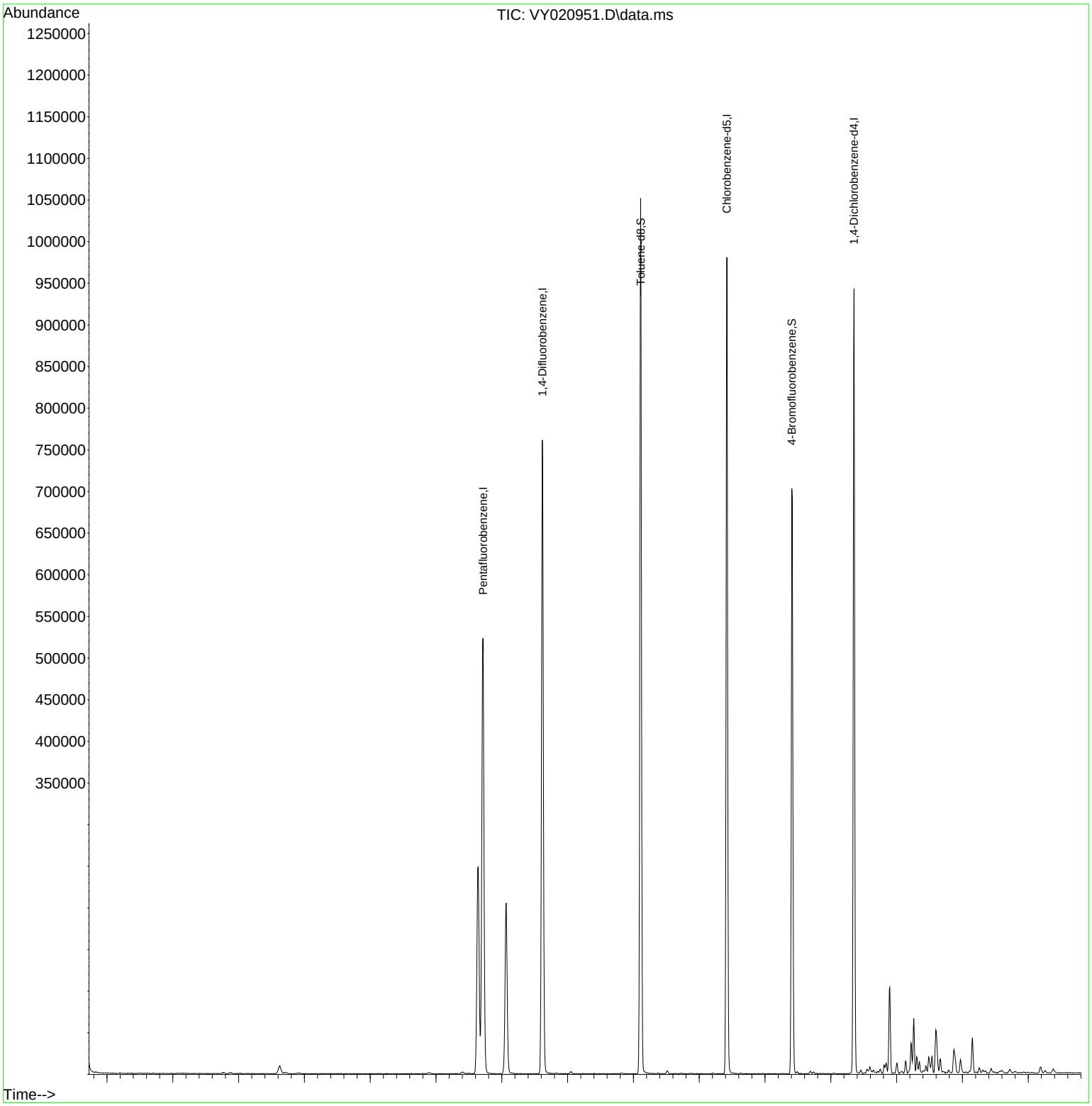
(#) = qualifier out of range (m) = manual integration (+) = signals summed

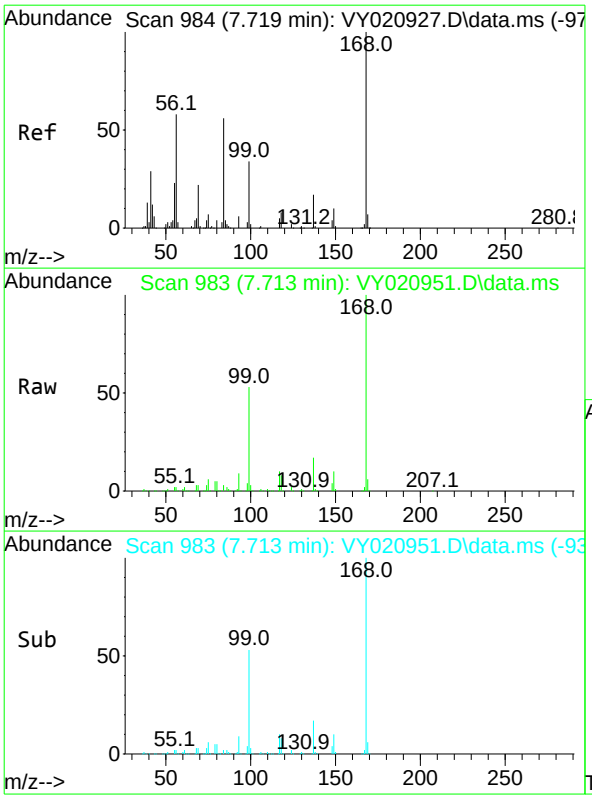
Sample Results: **VY020951.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020951.D
Acq On : 27 Jan 2025 16:24
Operator : SY/MD
Sample : Q1194-03
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB01

Quant Time: Jan 28 01:15:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration



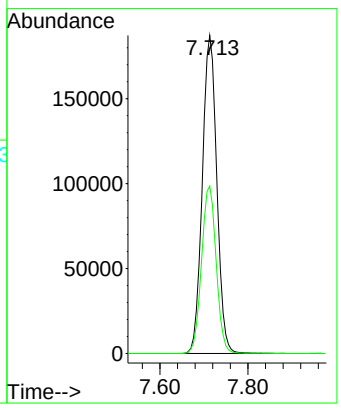


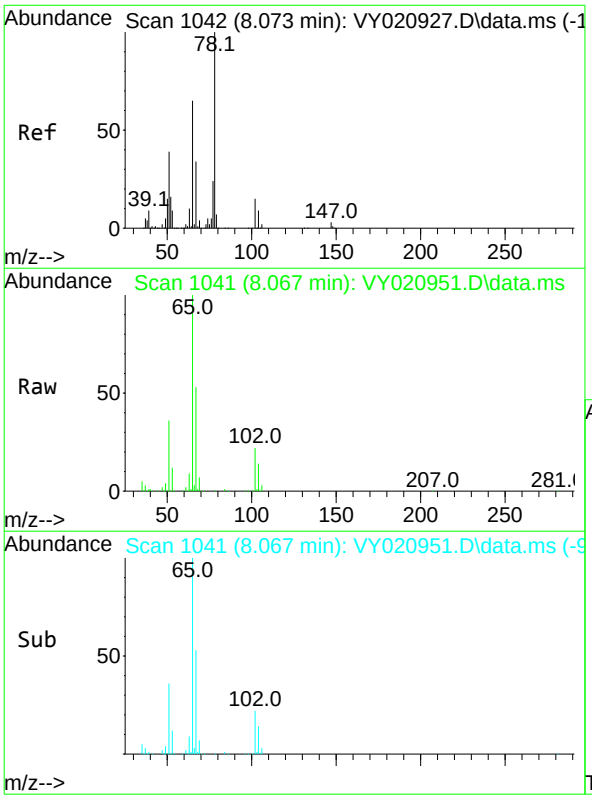

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020951.D
Acq: 27 Jan 2025 16:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB01

Tgt Ion:168 Resp: 427947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 52.7 | 43.0 | 64.6 |

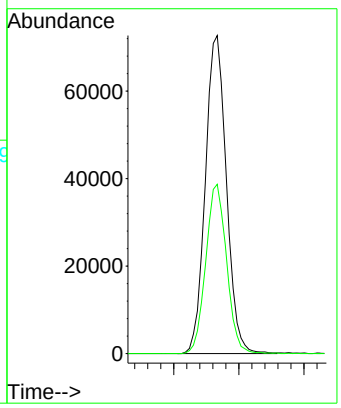


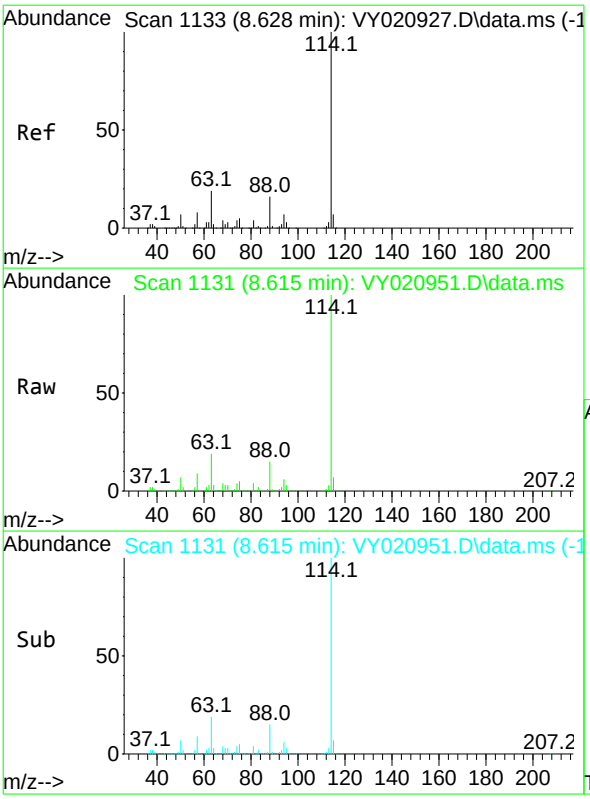




#33
1,2-Dichloroethane-d4
Concen: 47.830 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.006 min
Lab File: VY020951.D
Acq: 27 Jan 2025 16:24

Tgt Ion: 65 Resp: 163199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.7 | 0.0 | 105.8 |



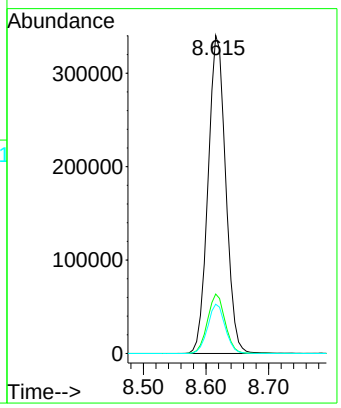


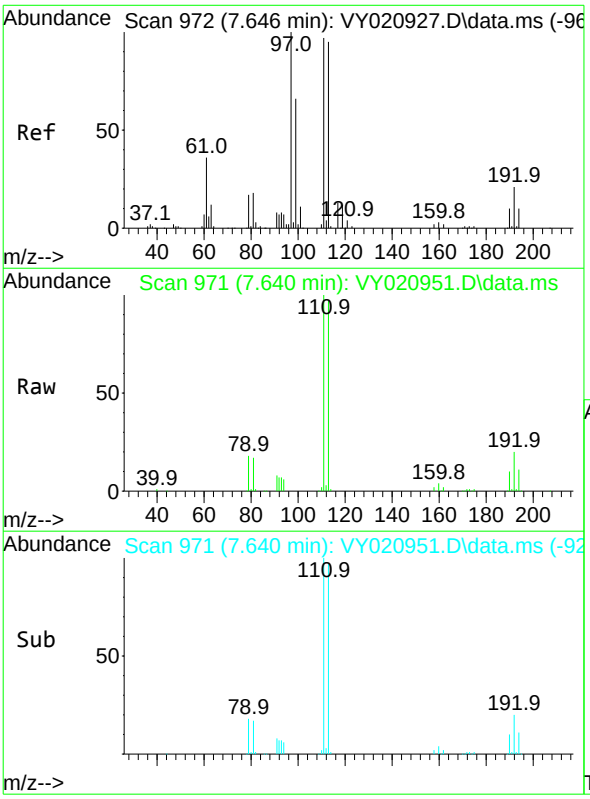

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.012 min
Lab File: VY020951.D
Acq: 27 Jan 2025 16:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB01

Tgt Ion:114 Resp: 666781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.7 | 0.0 | 38.4 |
| 88 | 15.5 | 0.0 | 31.6 |

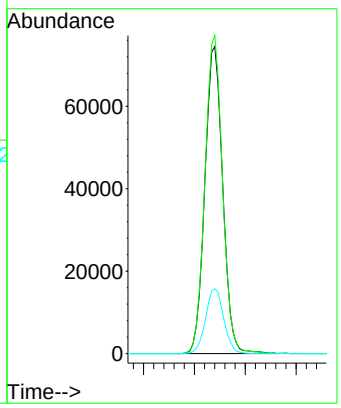


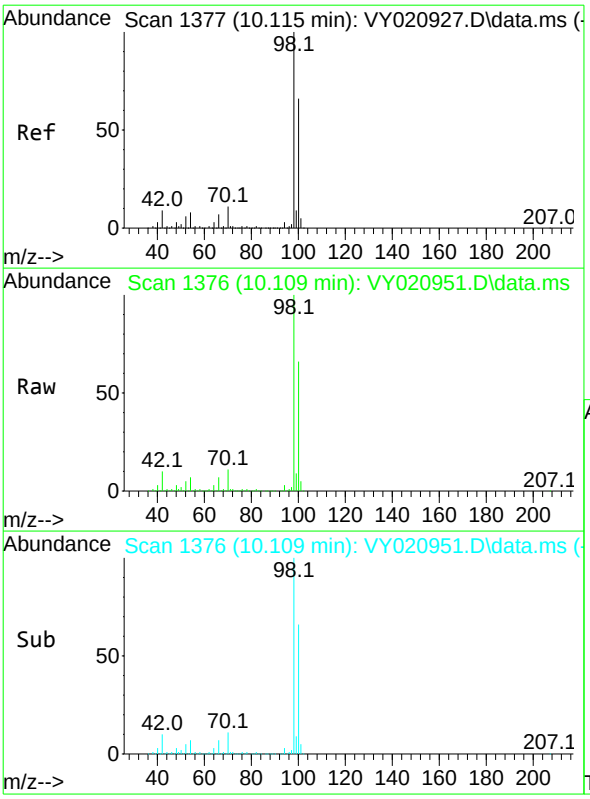




#35
Dibromofluoromethane
Concen: 47.575 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.006 min
Lab File: VY020951.D
Acq: 27 Jan 2025 16:24

Tgt Ion:113 Resp: 182113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.2 | 82.3 | 123.5 |
| 192 | 21.4 | 17.4 | 26.2 |



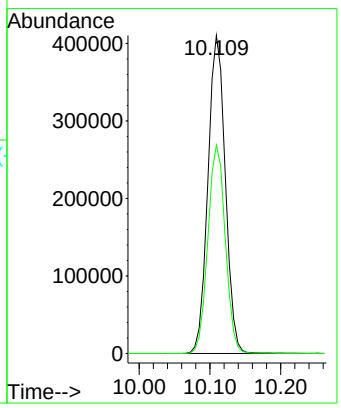


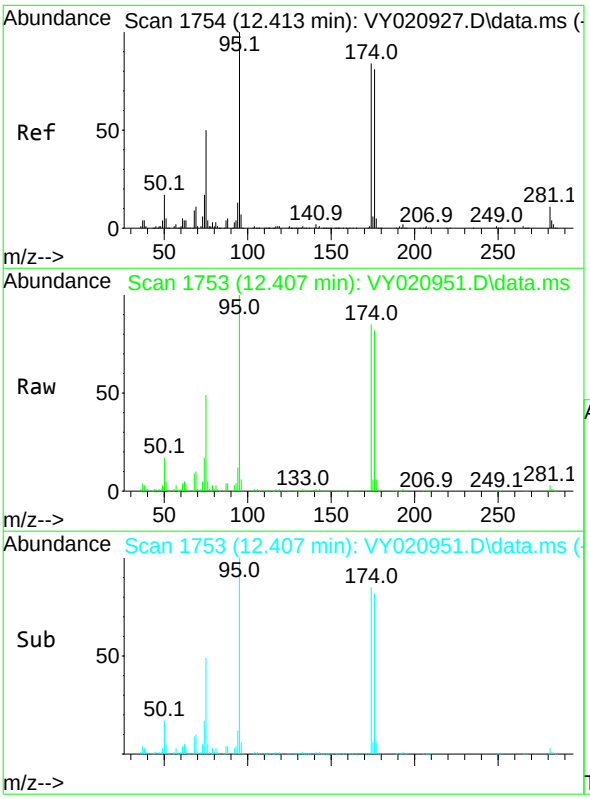

#50
Toluene-d8
Concen: 47.124 ug/l
RT: 10.109 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020951.D
Acq: 27 Jan 2025 16:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB01

Tgt Ion: 98 Resp: 699677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.8 | 52.3 | 78.5 |

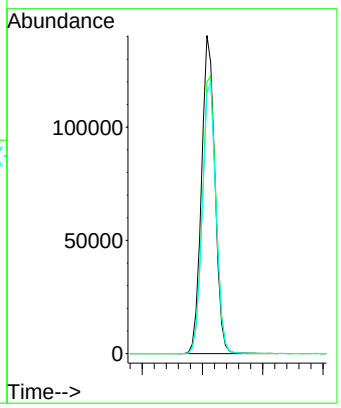


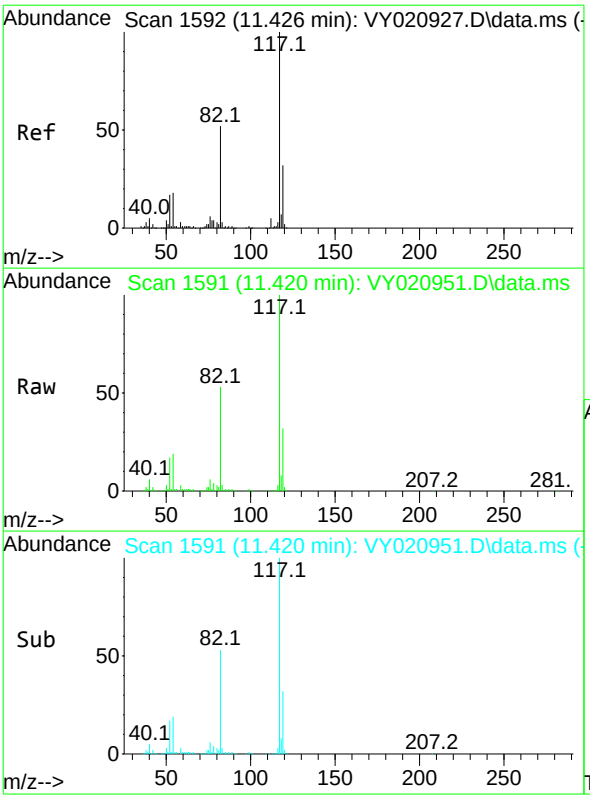




#62
4-Bromofluorobenzene
Concen: 43.725 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY020951.D
Acq: 27 Jan 2025 16:24

Tgt Ion: 95 Resp: 216063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 89.4 | 0.0 | 177.4 |
| 176 | 86.4 | 0.0 | 172.2 |



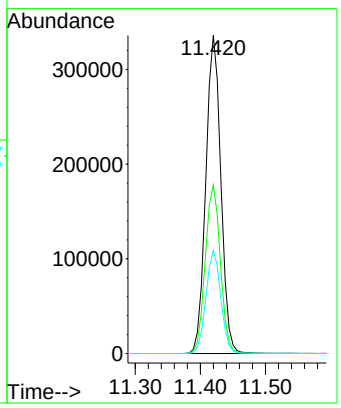


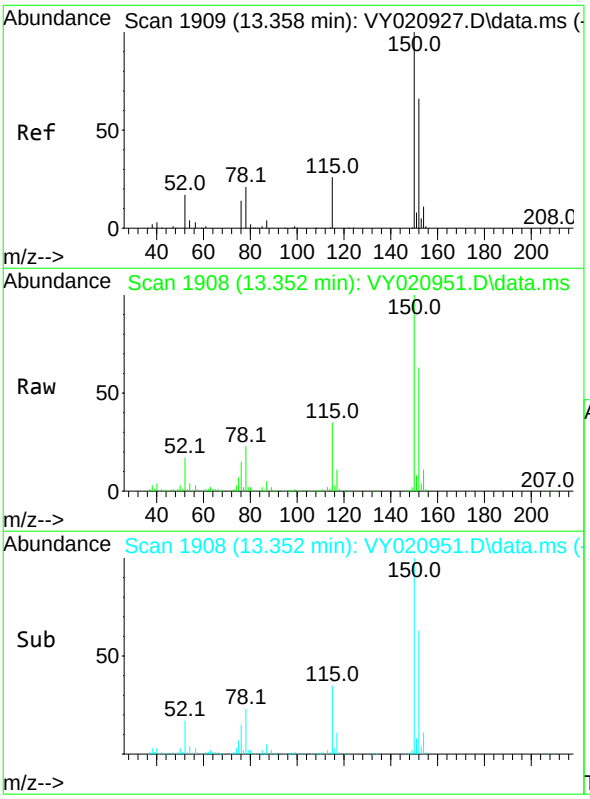

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020951.D
Acq: 27 Jan 2025 16:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB01

Tgt Ion:117 Resp: 538661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.0 | 41.8 | 62.8 |
| 119 | 32.4 | 26.0 | 39.0 |

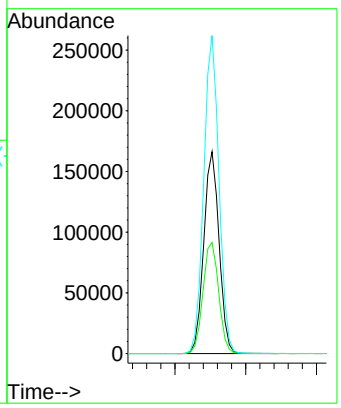



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. -0.006 min
Lab File: VY020951.D
Acq: 27 Jan 2025 16:24

Tgt Ion:152 Resp: 250424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.3 | 29.0 | 87.0 |
| 150 | 156.2 | 0.0 | 347.6 |



Sample Results: **VY020951.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020951.D
Acq On : 27 Jan 2025 16:24
Operator : SY/MD
Sample : Q1194-03
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB01

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\82Y012425S.M
Title : SW846 8260

Signal : TIC: VY020951.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.628 | 465 | 477 | 484 | rBV2 | 9161 | 27008 | 1.50% | 0.257% |
| 2 | 7.640 | 960 | 971 | 976 | rBV | 247905 | 598760 | 33.26% | 5.704% |
| 3 | 7.713 | 976 | 983 | 1004 | rVB | 522604 | 1209577 | 67.20% | 11.522% |
| 4 | 8.067 | 1030 | 1041 | 1053 | rBV | 204857 | 461565 | 25.64% | 4.397% |
| 5 | 8.615 | 1122 | 1131 | 1146 | rBV | 760788 | 1482238 | 82.35% | 14.120% |
| 6 | 10.109 | 1368 | 1376 | 1392 | rBV | 1051028 | 1800029 | 100.00% | 17.147% |
| 7 | 11.420 | 1583 | 1591 | 1604 | rBV | 980340 | 1573956 | 87.44% | 14.994% |
| 8 | 12.407 | 1746 | 1753 | 1763 | rBV2 | 702496 | 1158552 | 64.36% | 11.036% |
| 9 | 13.352 | 1899 | 1908 | 1920 | rVB | 942000 | 1431856 | 79.55% | 13.640% |
| 10 | 13.840 | 1985 | 1988 | 1991 | rVV2 | 12353 | 18342 | 1.02% | 0.175% |
| 11 | 13.895 | 1991 | 1997 | 2004 | rVB3 | 102994 | 171832 | 9.55% | 1.637% |
| 12 | 14.005 | 2009 | 2015 | 2021 | rVB4 | 12478 | 20413 | 1.13% | 0.194% |
| 13 | 14.139 | 2031 | 2037 | 2042 | rBV | 14742 | 21875 | 1.22% | 0.208% |
| 14 | 14.218 | 2042 | 2050 | 2053 | rBV | 36017 | 58082 | 3.23% | 0.553% |
| 15 | 14.261 | 2053 | 2057 | 2061 | rVV | 65181 | 91701 | 5.09% | 0.874% |
| 16 | 14.303 | 2061 | 2064 | 2068 | rVV | 19015 | 27179 | 1.51% | 0.259% |
| 17 | 14.486 | 2091 | 2094 | 2099 | rBV2 | 17313 | 29688 | 1.65% | 0.283% |
| 18 | 14.535 | 2099 | 2102 | 2107 | rVB2 | 19144 | 26444 | 1.47% | 0.252% |
| 19 | 14.596 | 2107 | 2112 | 2119 | rBV3 | 50689 | 106193 | 5.90% | 1.012% |
| 20 | 14.663 | 2119 | 2123 | 2128 | rVB | 15598 | 23762 | 1.32% | 0.226% |
| 21 | 14.870 | 2151 | 2157 | 2168 | rBV2 | 27965 | 64138 | 3.56% | 0.611% |
| 22 | 14.968 | 2168 | 2173 | 2180 | rBV2 | 15839 | 27256 | 1.51% | 0.260% |
| 23 | 15.151 | 2197 | 2203 | 2209 | rVB | 41931 | 67098 | 3.73% | 0.639% |

Sum of corrected areas: 10497544

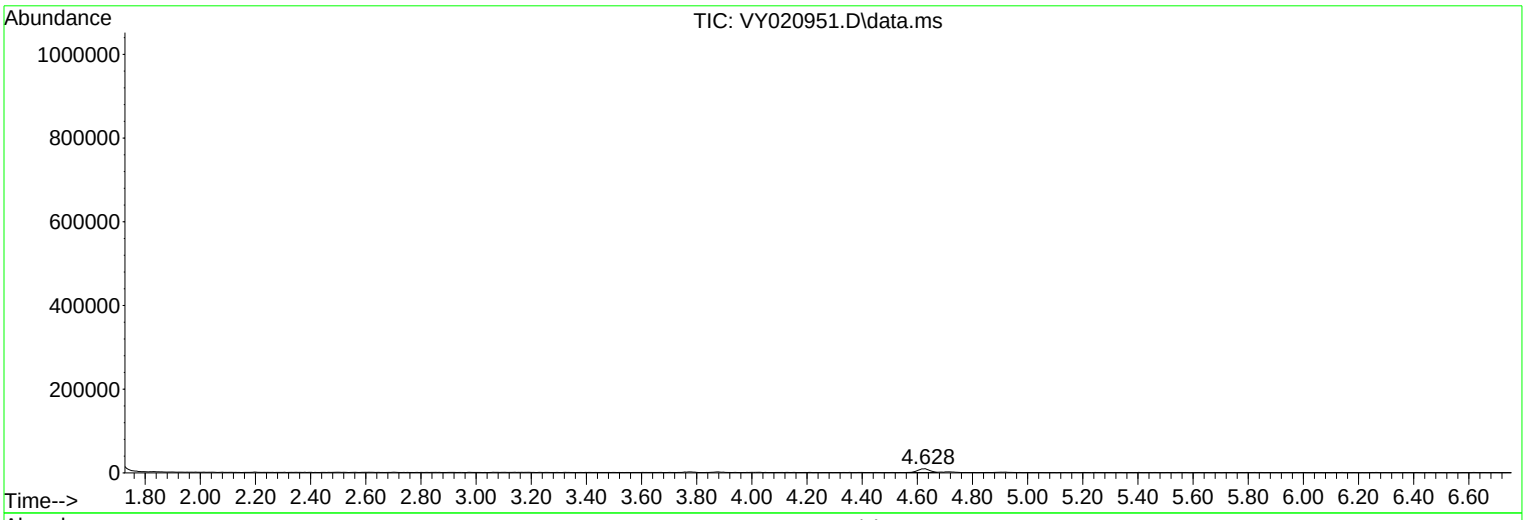
Sample Results: **VY020951.D**

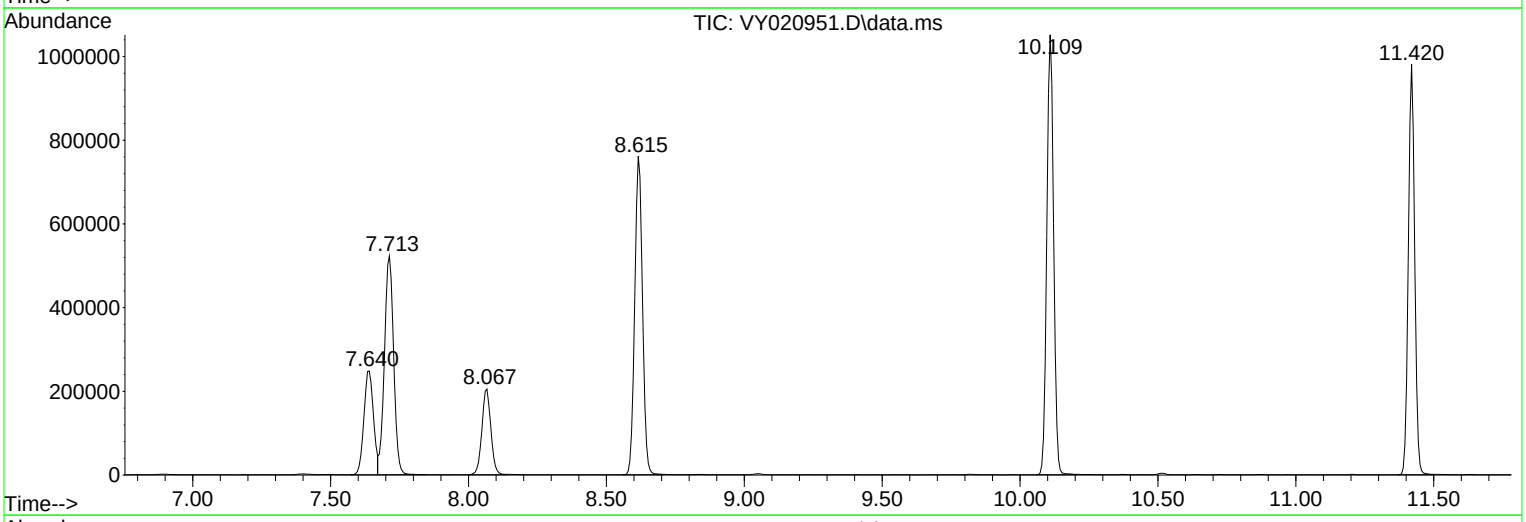
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020951.D
Acq On : 27 Jan 2025 16:24
Operator : SY/MD
Sample : Q1194-03
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

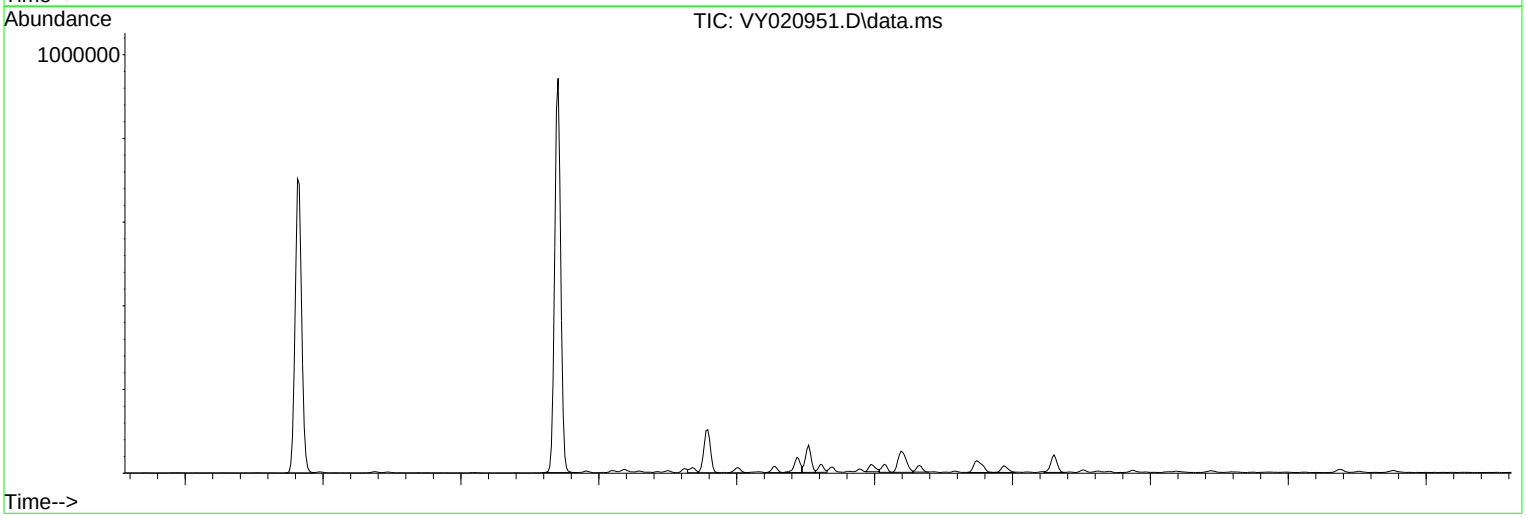
**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY020951.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020951.D
Acq On : 27 Jan 2025 16:24
Operator : SY/MD
Sample : Q1194-03
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260

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

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

Sample Results: **VY020951.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020951.D
Acq On : 27 Jan 2025 16:24
Operator : SY/MD
Sample : Q1194-03
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.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: **VY020949.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | B-113-SB02 | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-04 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 64.7 |
| Sample Wt/Vol: | 5.9 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020949.D | 1 | | 01/27/25 15:32 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 2.20 | U | 2.20 | 6.50 | ug/Kg |
| 74-87-3 | Chloromethane | 1.50 | U | 1.50 | 6.50 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 1.00 | U | 1.00 | 6.50 | ug/Kg |
| 74-83-9 | Bromomethane | 1.30 | U | 1.30 | 6.50 | ug/Kg |
| 75-00-3 | Chloroethane | 1.30 | U | 1.30 | 6.50 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.20 | U | 1.20 | 6.50 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.40 | U | 1.40 | 6.50 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 1.00 | U | 1.00 | 6.50 | ug/Kg |
| 67-64-1 | Acetone | 100 | | 8.20 | 32.7 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.70 | U | 1.70 | 6.50 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.88 | U | 0.88 | 6.50 | ug/Kg |
| 79-20-9 | Methyl Acetate | 2.40 | U | 2.40 | 6.50 | ug/Kg |
| 75-09-2 | Methylene Chloride | 4.50 | U | 4.50 | 13.1 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 1.10 | U | 1.10 | 6.50 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.83 | U | 0.83 | 6.50 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.90 | U | 0.90 | 6.50 | ug/Kg |
| 78-93-3 | 2-Butanone | 22.7 | J | 7.40 | 32.7 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.10 | U | 1.10 | 6.50 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.80 | U | 0.80 | 6.50 | ug/Kg |
| 74-97-5 | Bromochloromethane | 3.20 | U | 3.20 | 6.50 | ug/Kg |
| 67-66-3 | Chloroform | 0.88 | U | 0.88 | 6.50 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.00 | U | 1.00 | 6.50 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.10 | U | 1.10 | 6.50 | ug/Kg |
| 71-43-2 | Benzene | 0.94 | U | 0.94 | 6.50 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.80 | U | 0.80 | 6.50 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.98 | U | 0.98 | 6.50 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.86 | U | 0.86 | 6.50 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.73 | U | 0.73 | 6.50 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.70 | U | 5.70 | 32.7 | ug/Kg |
| 108-88-3 | Toluene | 0.88 | U | 0.88 | 6.50 | ug/Kg |

Raw Data: **VY020949.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | B-113-SB02 | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-04 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 64.7 |
| Sample Wt/Vol: | 5.9 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020949.D | 1 | | 01/27/25 15:32 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.79 | U | 0.79 | 6.50 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.75 | U | 0.75 | 6.50 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 1.10 | U | 1.10 | 6.50 | ug/Kg |
| 591-78-6 | 2-Hexanone | 6.30 | U | 6.30 | 32.7 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.85 | U | 0.85 | 6.50 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 1.00 | U | 1.00 | 6.50 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.20 | U | 1.20 | 6.50 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.97 | U | 0.97 | 6.50 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.81 | U | 0.81 | 6.50 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.80 | U | 1.80 | 13.1 | ug/Kg |
| 95-47-6 | o-Xylene | 0.92 | U | 0.92 | 6.50 | ug/Kg |
| 100-42-5 | Styrene | 0.79 | U | 0.79 | 6.50 | ug/Kg |
| 75-25-2 | Bromoform | 1.10 | U | 1.10 | 6.50 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.88 | U | 0.88 | 6.50 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.40 | U | 1.40 | 6.50 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.97 | U | 0.97 | 6.50 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.00 | U | 1.00 | 6.50 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.77 | U | 0.77 | 6.50 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.00 | U | 2.00 | 6.50 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.00 | U | 1.00 | 6.50 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.00 | U | 1.00 | 6.50 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.2 | | 70 (50) - 130 (163) | 100% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.6 | | 70 (54) - 130 (147) | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.6 | | 70 (58) - 130 (134) | 95% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 36.6 | | 70 (29) - 130 (146) | 73% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 332000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 507000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 370000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 129000 | 13.353 | | | |

Raw Data: **VY020949.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | B-113-SB02 | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-04 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 64.7 |
| Sample Wt/Vol: | 5.9 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020949.D | 1 | | 01/27/25 15:32 | VY012725 |

| 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

Quantitation Report (QT/LSC Reviewed)

Sample Results: **VY020949.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020949.D
Acq On : 27 Jan 2025 15:32
Operator : SY/MD
Sample : Q1194-04
Misc : 5.90g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB02

Quant Time: Jan 28 01:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 331503 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 506966 | 50.000 | ug/l | -0.01 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 369514 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 129163 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 132803 | 50.245 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 100.500% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 147366 | 50.634 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 101.260% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 537405 | 47.605 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 95.200% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 137464 | 36.588 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 73.180% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 3.873 | 43 | 28315 | 79.068 | ug/l | 96 |
| 25) 2-Butanone | 6.896 | 43 | 10509 | 17.324 | ug/l | 92 |

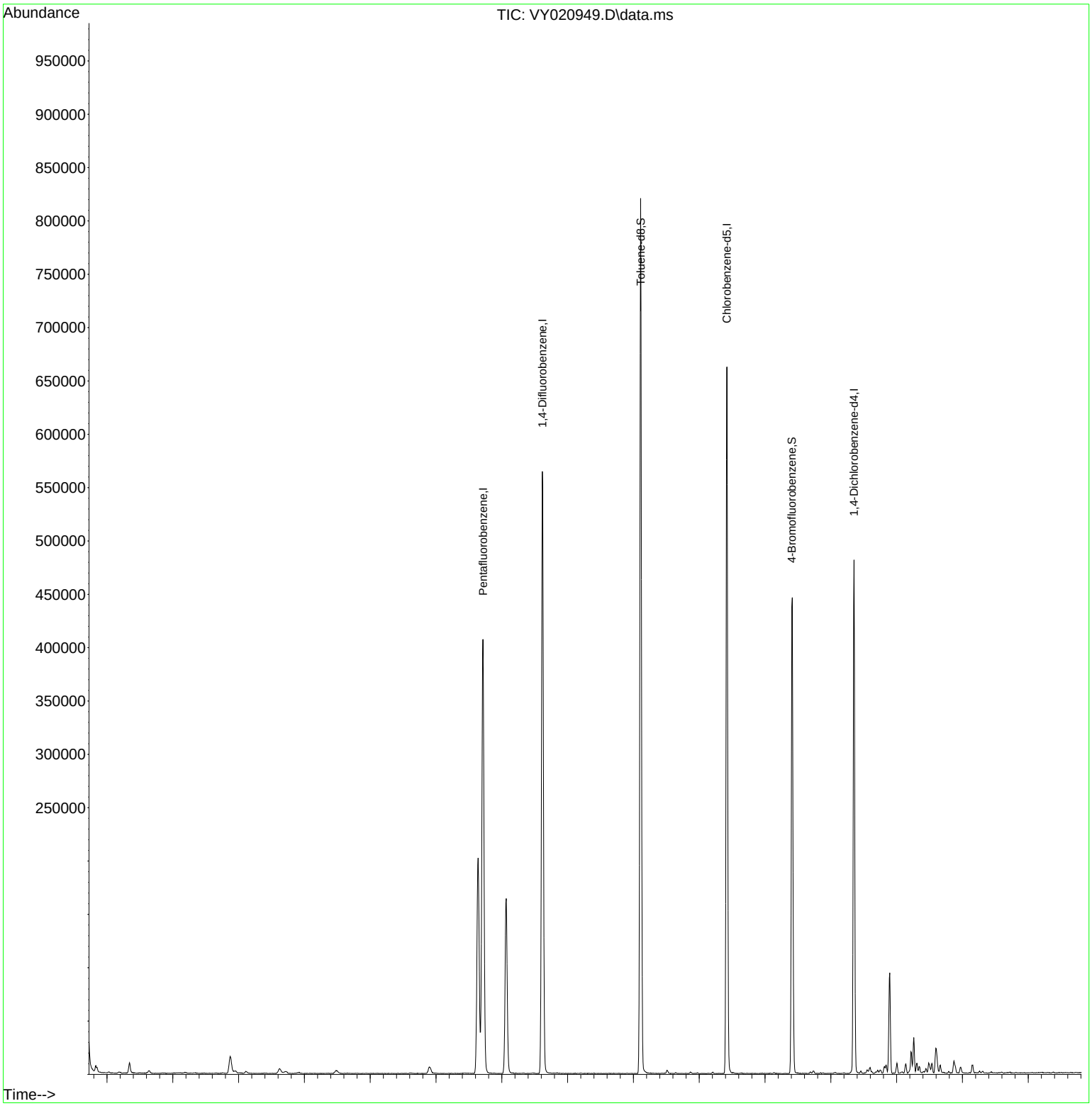
(#) = qualifier out of range (m) = manual integration (+) = signals summed

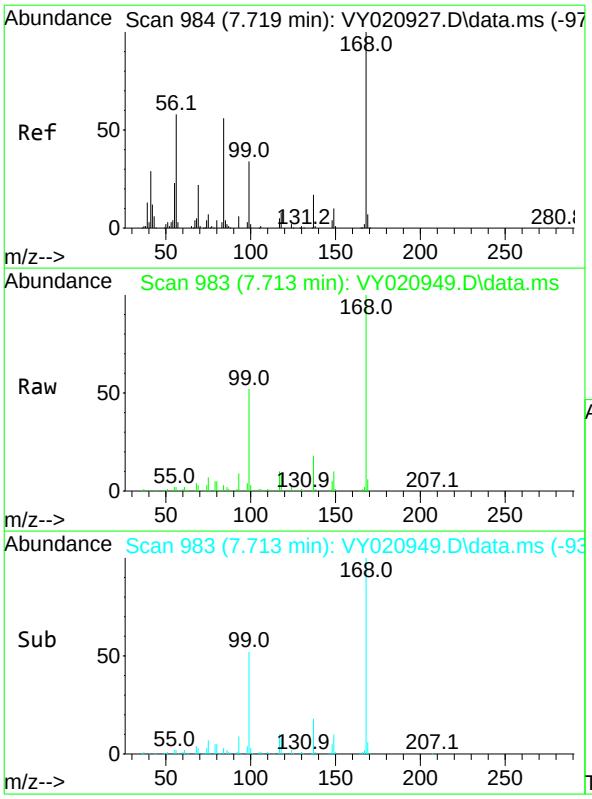
Sample Results: **VY020949.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020949.D
Acq On : 27 Jan 2025 15:32
Operator : SY/MD
Sample : Q1194-04
Misc : 5.90g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB02

Quant Time: Jan 28 01:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration



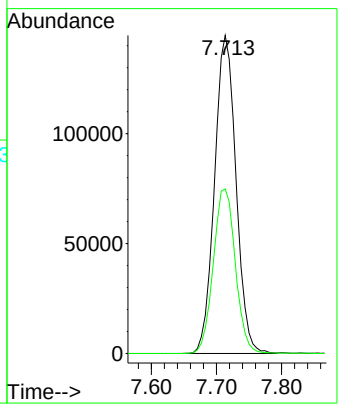


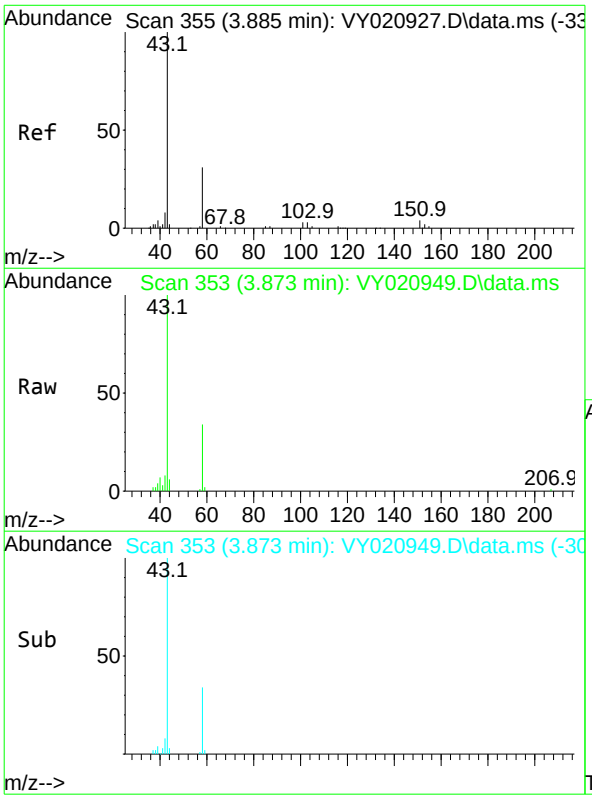

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020949.D
Acq: 27 Jan 2025 15:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB02

Tgt Ion:168 Resp: 331503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.7 | 43.0 | 64.6 |

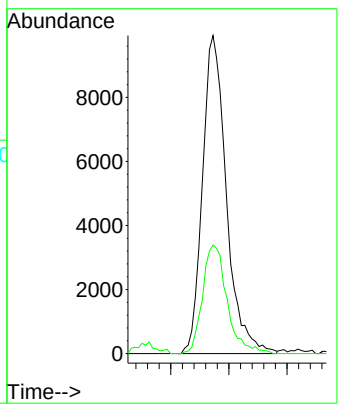


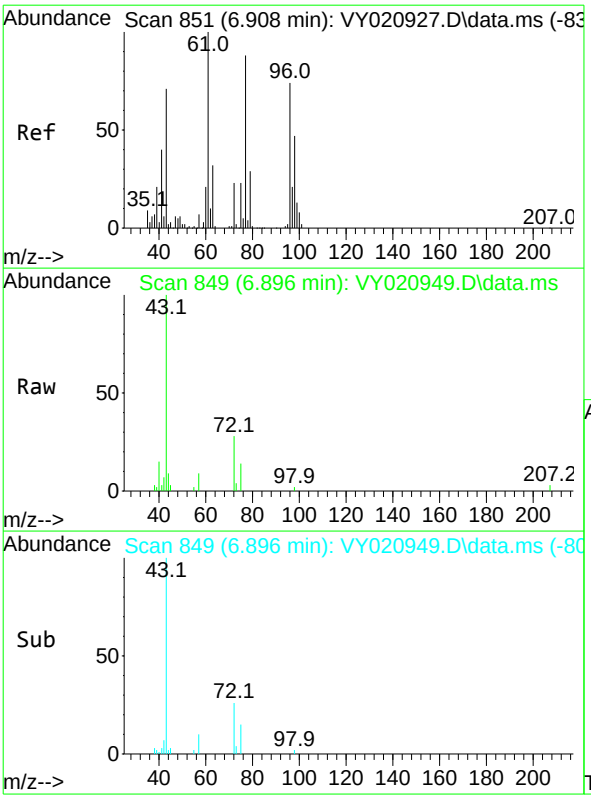




#16
Acetone
Concen: 79.068 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.012 min
Lab File: VY020949.D
Acq: 27 Jan 2025 15:32

Tgt Ion: 43 Resp: 28315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.1 | 25.6 | 38.4 |



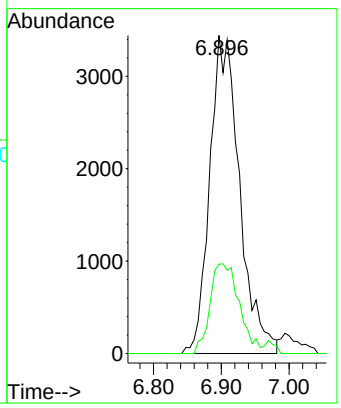


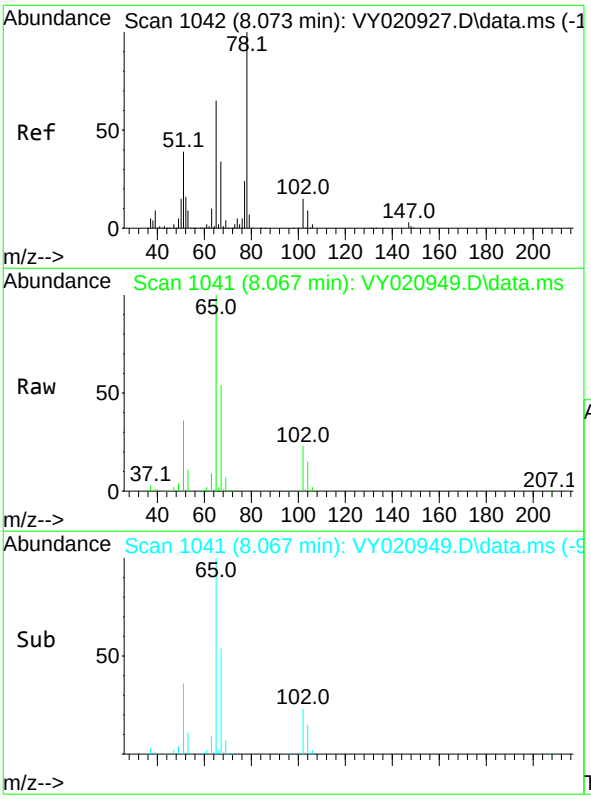

#25
2-Butanone
Concen: 17.324 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.012 min
Lab File: VY020949.D
Acq: 27 Jan 2025 15:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB02

Tgt Ion: 43 Resp: 10509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.1 | 25.8 | 38.8 |

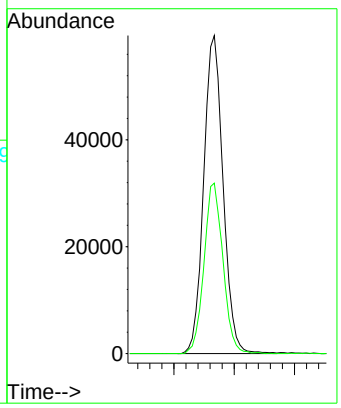


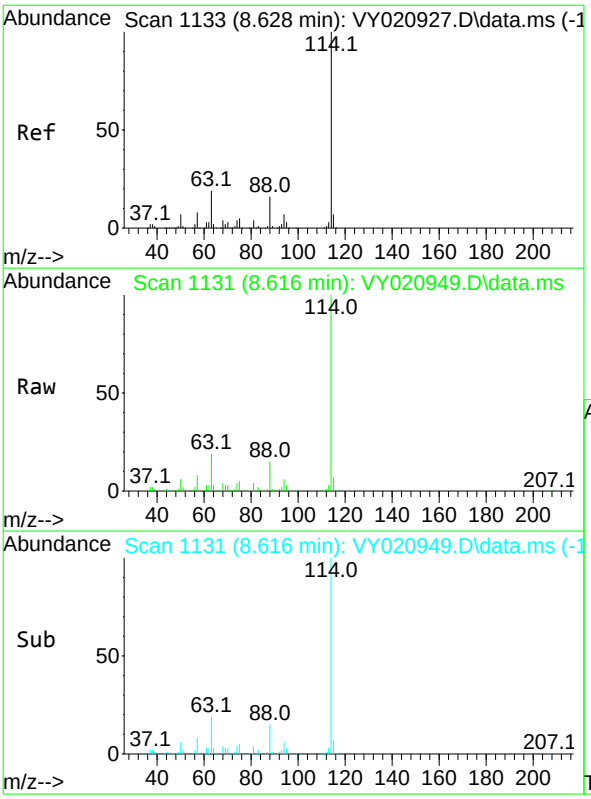




#33
1,2-Dichloroethane-d4
Concen: 50.245 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.006 min
Lab File: VY020949.D
Acq: 27 Jan 2025 15:32

Tgt Ion: 65 Resp: 132803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.3 | 0.0 | 105.8 |



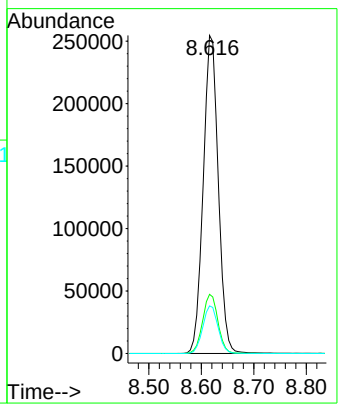


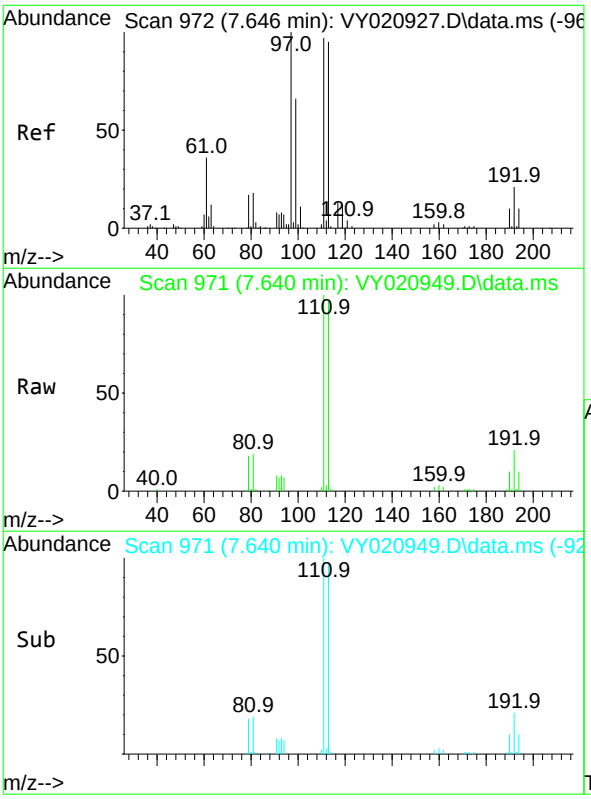

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.012 min
Lab File: VY020949.D
Acq: 27 Jan 2025 15:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB02

Tgt Ion:114 Resp: 506966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.6 | 0.0 | 38.4 |
| 88 | 15.0 | 0.0 | 31.6 |

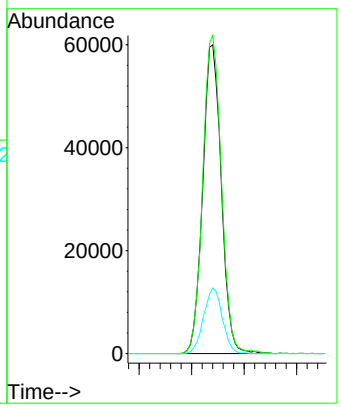


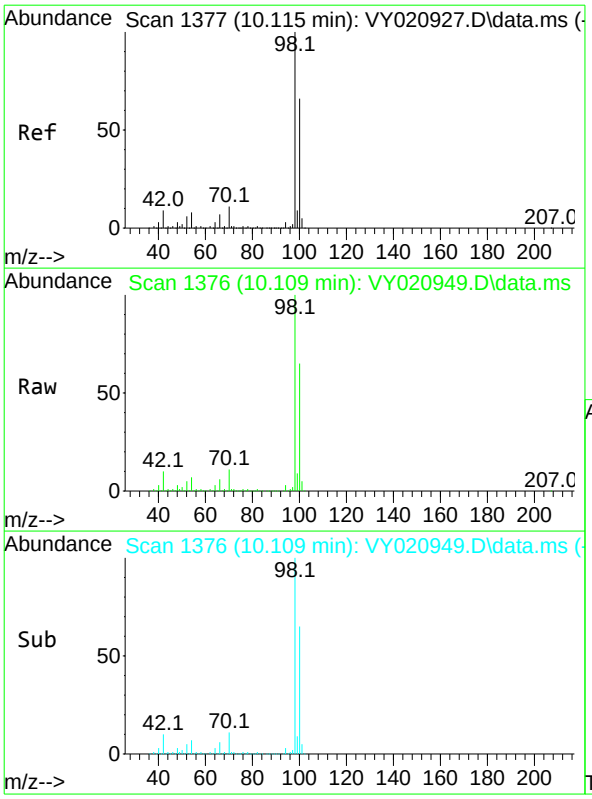




#35
Dibromofluoromethane
Concen: 50.634 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.006 min
Lab File: VY020949.D
Acq: 27 Jan 2025 15:32

Tgt Ion:113 Resp: 147366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.6 | 82.3 | 123.5 |
| 192 | 21.4 | 17.4 | 26.2 |



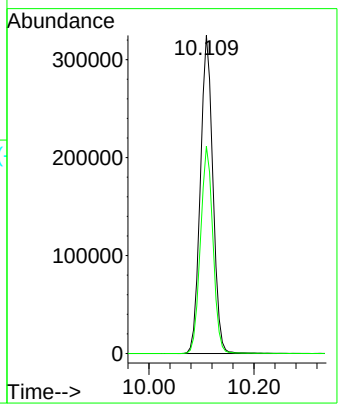


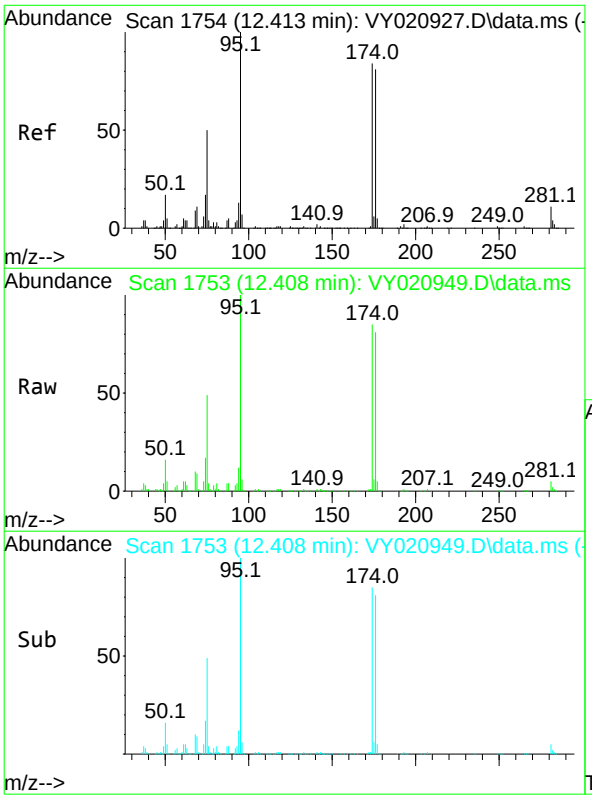

#50
Toluene-d8
Concen: 47.605 ug/l
RT: 10.109 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020949.D
Acq: 27 Jan 2025 15:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB02

Tgt Ion: 98 Resp: 537405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.9 | 52.3 | 78.5 |

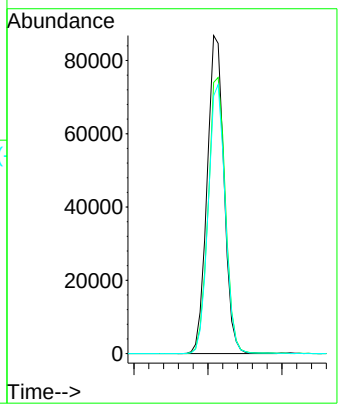


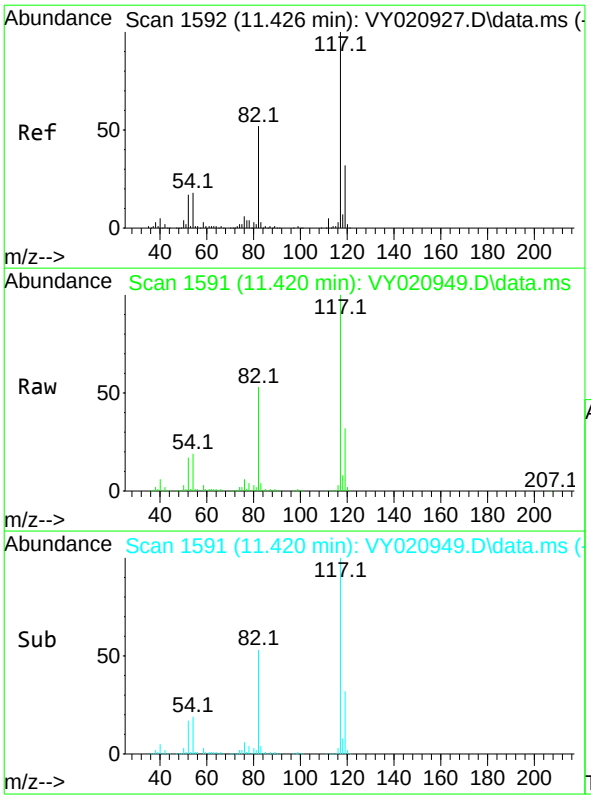




#62
4-Bromofluorobenzene
Concen: 36.588 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY020949.D
Acq: 27 Jan 2025 15:32

Tgt Ion: 95 Resp: 137464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 88.8 | 0.0 | 177.4 |
| 176 | 85.1 | 0.0 | 172.2 |



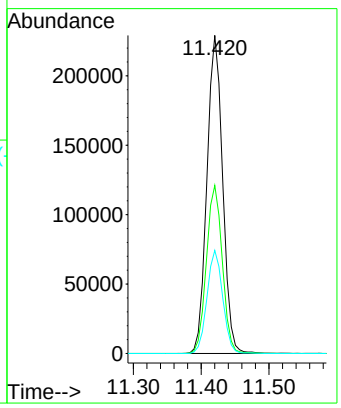


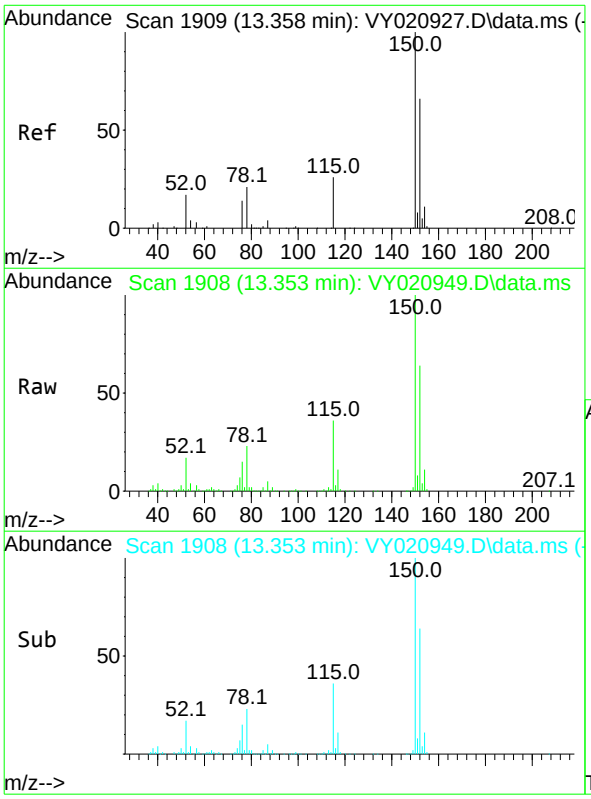

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020949.D
Acq: 27 Jan 2025 15:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB02

Tgt Ion:117 Resp: 369514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.8 | 41.8 | 62.8 |
| 119 | 32.4 | 26.0 | 39.0 |

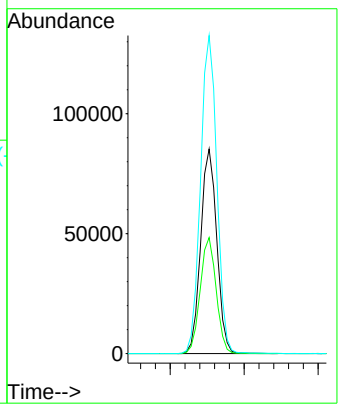



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. -0.006 min
Lab File: VY020949.D
Acq: 27 Jan 2025 15:32

Tgt Ion:152 Resp: 129163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.2 | 29.0 | 87.0 |
| 150 | 157.5 | 0.0 | 347.6 |



Sample Results: **VY020949.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020949.D
Acq On : 27 Jan 2025 15:32
Operator : SY/MD
Sample : Q1194-04
Misc : 5.90g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB02

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\82Y012425S.M
Title : SW846 8260

Signal : TIC: VY020949.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.342 | 96 | 102 | 108 | rBV | 9716 | 17668 | 1.29% | 0.242% |
| 2 | 3.873 | 344 | 353 | 361 | rBV | 15900 | 43224 | 3.15% | 0.592% |
| 3 | 4.622 | 467 | 476 | 485 | rBV5 | 4616 | 14773 | 1.08% | 0.202% |
| 4 | 6.896 | 842 | 849 | 857 | rBV3 | 5963 | 16914 | 1.23% | 0.232% |
| 5 | 7.640 | 961 | 971 | 976 | rBV | 202021 | 484578 | 35.33% | 6.637% |
| 6 | 7.713 | 976 | 983 | 1000 | rVB | 406794 | 939430 | 68.49% | 12.866% |
| 7 | 8.067 | 1032 | 1041 | 1054 | rBV | 163963 | 368438 | 26.86% | 5.046% |
| 8 | 8.616 | 1122 | 1131 | 1148 | rBV | 564419 | 1127349 | 82.19% | 15.440% |
| 9 | 10.109 | 1369 | 1376 | 1394 | rBV | 820185 | 1371577 | 100.00% | 18.785% |
| 10 | 11.420 | 1583 | 1591 | 1603 | rBV | 662312 | 1078790 | 78.65% | 14.775% |
| 11 | 12.414 | 1746 | 1754 | 1764 | rBV2 | 446138 | 754228 | 54.99% | 10.330% |
| 12 | 13.353 | 1894 | 1908 | 1922 | rBV | 481450 | 746675 | 54.44% | 10.226% |
| 13 | 13.895 | 1991 | 1997 | 2004 | rVB2 | 94397 | 154362 | 11.25% | 2.114% |
| 14 | 14.218 | 2041 | 2050 | 2053 | rBV | 20034 | 32285 | 2.35% | 0.442% |
| 15 | 14.261 | 2053 | 2057 | 2061 | rVV | 33140 | 47542 | 3.47% | 0.651% |
| 16 | 14.310 | 2061 | 2065 | 2068 | rVV2 | 8994 | 14054 | 1.02% | 0.192% |
| 17 | 14.487 | 2090 | 2094 | 2099 | rBV3 | 8520 | 15253 | 1.11% | 0.209% |
| 18 | 14.596 | 2107 | 2112 | 2120 | rBV3 | 23104 | 50556 | 3.69% | 0.692% |
| 19 | 14.871 | 2152 | 2157 | 2164 | rBV2 | 11244 | 23694 | 1.73% | 0.325% |

Sum of corrected areas: 7301390

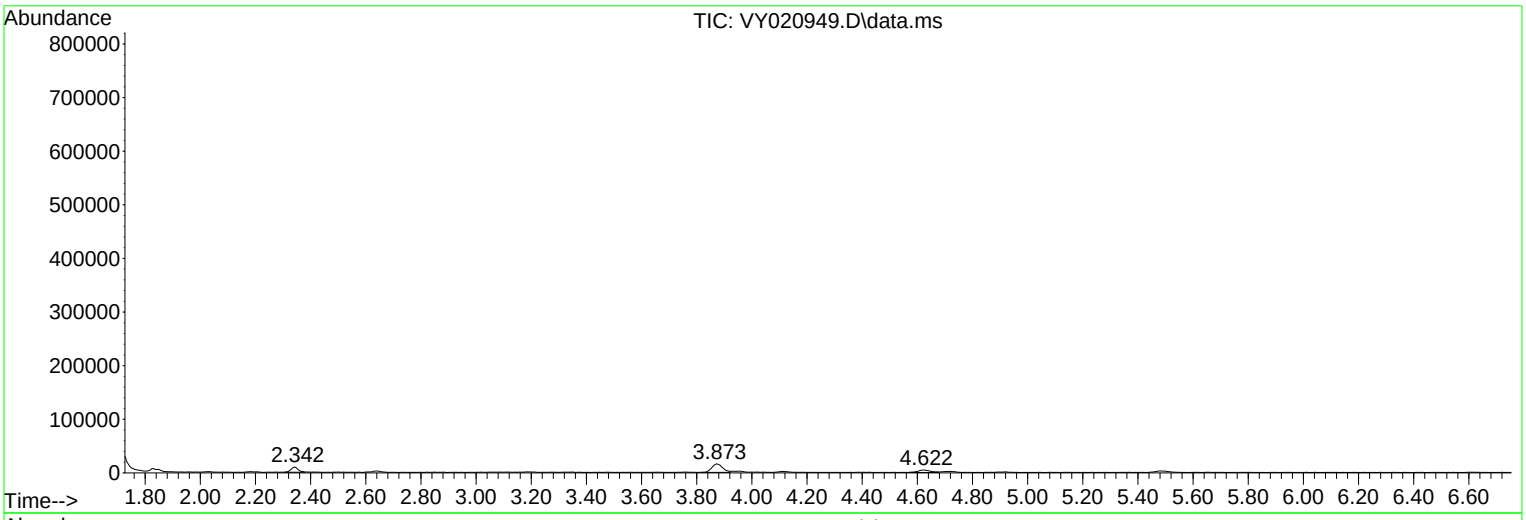
Sample Results: **VY020949.D**

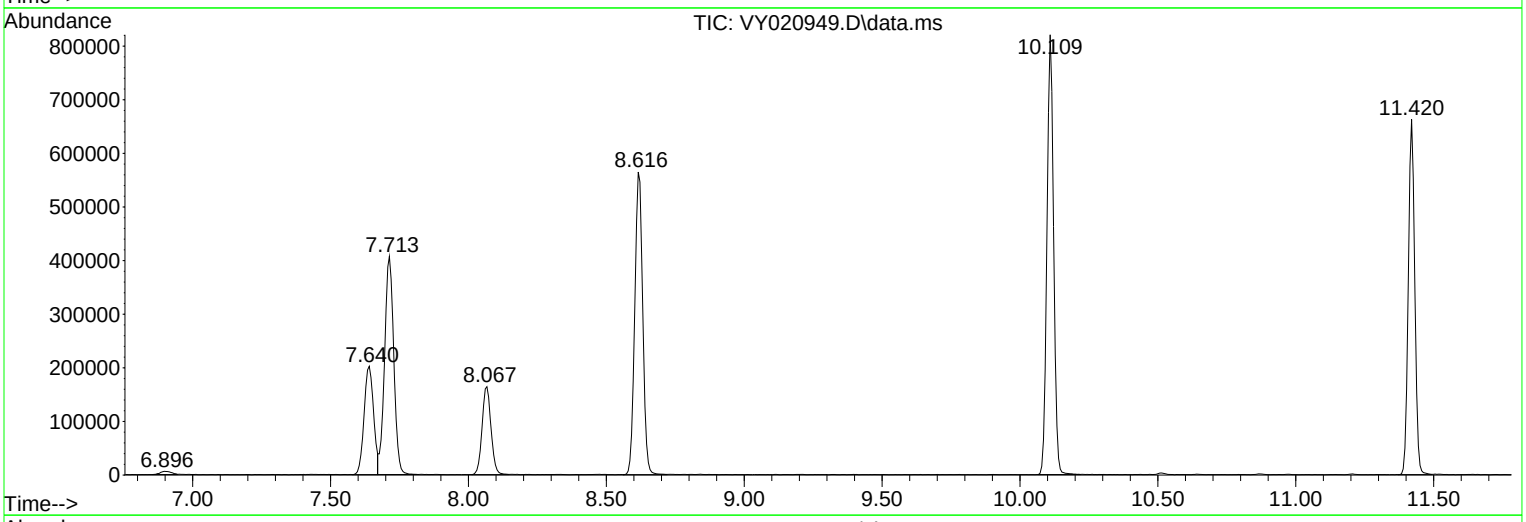
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020949.D
Acq On : 27 Jan 2025 15:32
Operator : SY/MD
Sample : Q1194-04
Misc : 5.90g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

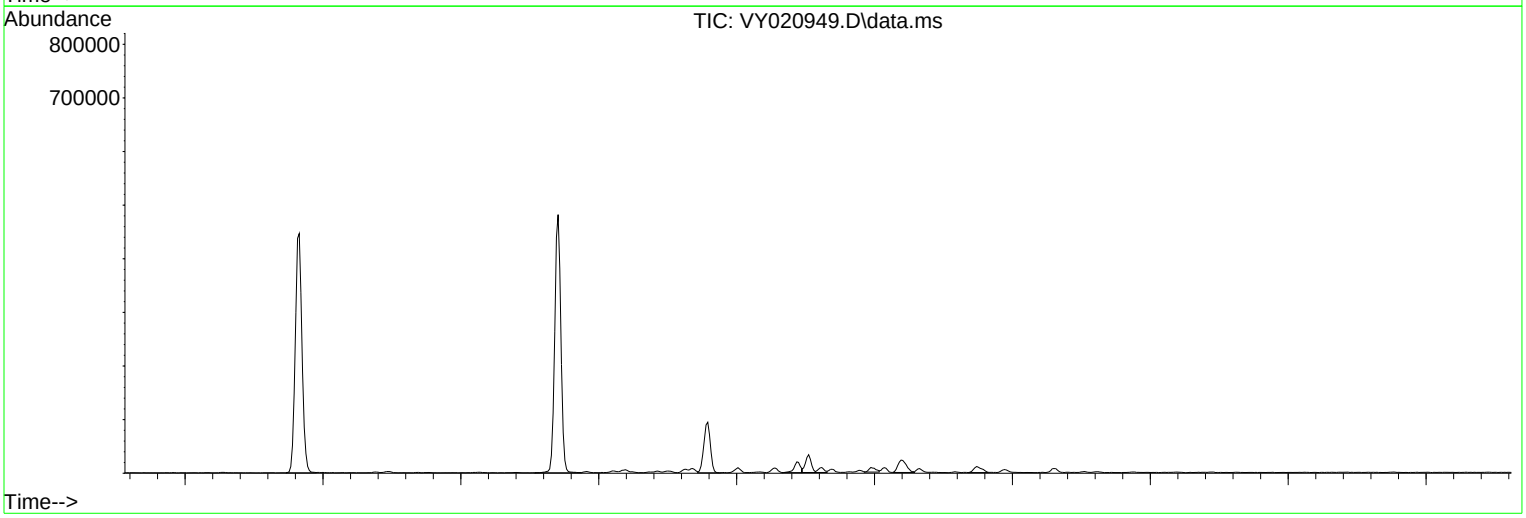
**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY020949.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020949.D
Acq On : 27 Jan 2025 15:32
Operator : SY/MD
Sample : Q1194-04
Misc : 5.90g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Sample Results: **VY020949.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020949.D
Acq On : 27 Jan 2025 15:32
Operator : SY/MD
Sample : Q1194-04
Misc : 5.90g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-113-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.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: **VN085533.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | FB | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-09 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085533.D | 1 | | 01/28/25 13:00 | VN012825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.35 | U | 0.35 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.56 | U | 0.56 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.34 | U | 0.34 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 1.00 | ug/L |
| 67-64-1 | Acetone | 14.7 | | 1.40 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.32 | U | 0.32 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.60 | U | 0.60 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.32 | U | 0.32 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.60 | U | 1.60 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 1.30 | U | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.19 | U | 0.19 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.19 | U | 0.19 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.19 | U | 0.19 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.24 | U | 0.24 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.75 | U | 0.75 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.18 | U | 0.18 | 1.00 | ug/L |

Raw Data: **VN085533.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | FB | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-09 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085533.D | 1 | | 01/28/25 13:00 | VN012825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.21 | U | 0.21 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.18 | U | 0.18 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 1.10 | U | 1.10 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.31 | U | 0.31 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.14 | U | 0.14 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.21 | U | 0.21 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.27 | U | 0.27 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.24 | U | 0.24 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.27 | U | 0.27 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.46 | U | 0.46 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.42 | U | 0.42 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.51 | U | 0.51 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.8 | | 70 (74) - 130 (125) | 110% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.8 | | 70 (75) - 130 (124) | 104% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.4 | | 70 (86) - 130 (113) | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.4 | | 70 (77) - 130 (121) | 87% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 169000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 313000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 274000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 107000 | 13.788 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | FB | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-09 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085533.D | 1 | | 01/28/25 13:00 | VN012825 |

| 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

Quantitation Report (QT Reviewed)

Sample Results: **VN085533.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085533.D
Acq On : 28 Jan 2025 13:00
Operator : JC\MD
Sample : Q1194-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
FB

Quant Time: Jan 29 01:33:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 169030 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 313197 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 274340 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 106996 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 149462 | 54.778 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 109.560% | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 112628 | 51.835 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 103.660% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 381699 | 49.443 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 98.880% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 114691 | 43.430 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 86.860% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 4.430 | 43 | 12983 | 14.727 | ug/l | 96 |

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

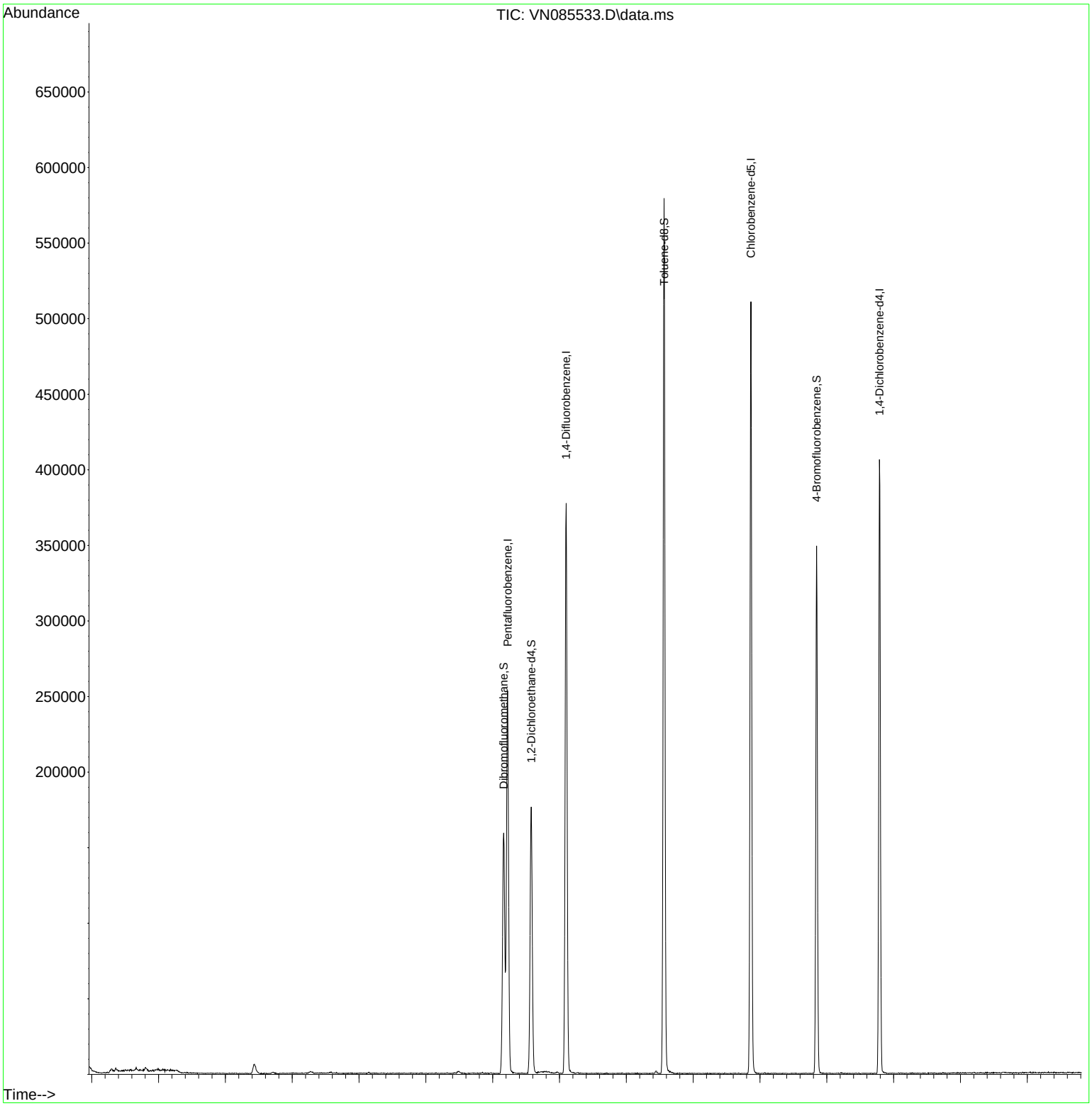
Quantitation Report (QT Reviewed)

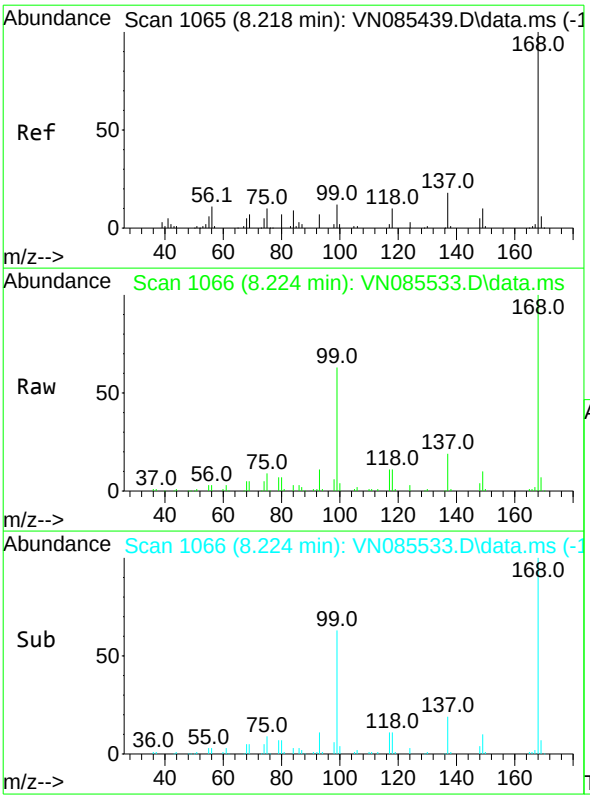
Sample Results: **VN085533.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085533.D
Acq On : 28 Jan 2025 13:00
Operator : JC\MD
Sample : Q1194-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
FB

Quant Time: Jan 29 01:33:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



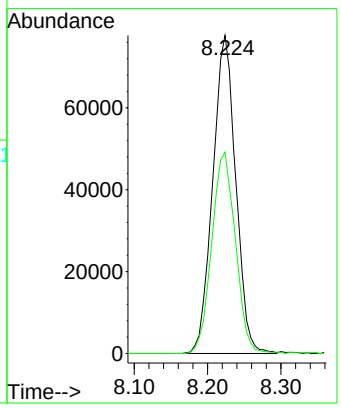


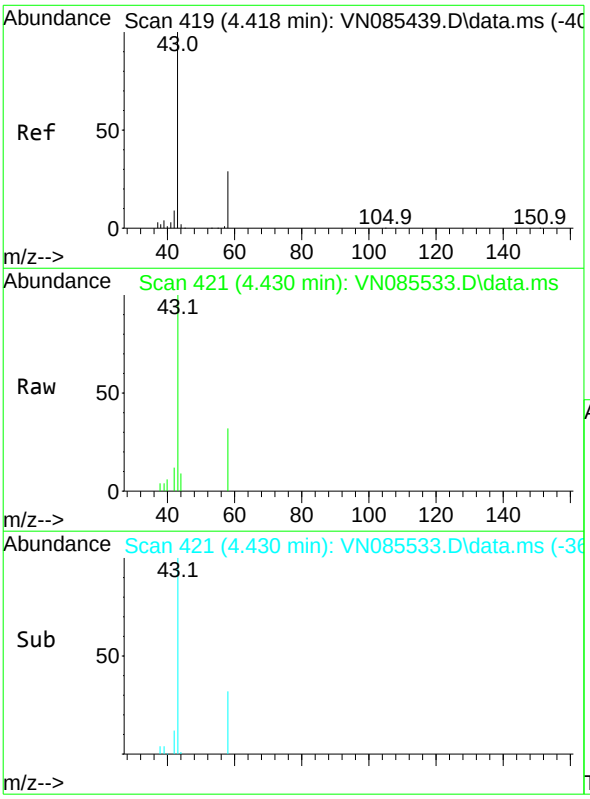

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085533.D
Acq: 28 Jan 2025 13:00

**Instrument :**
MSVOA_N
**ClientSampleId :**
FB

Tgt Ion:168 Resp: 169030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.3 | 53.6 | 80.4 |

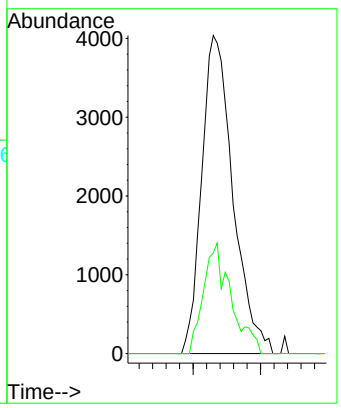


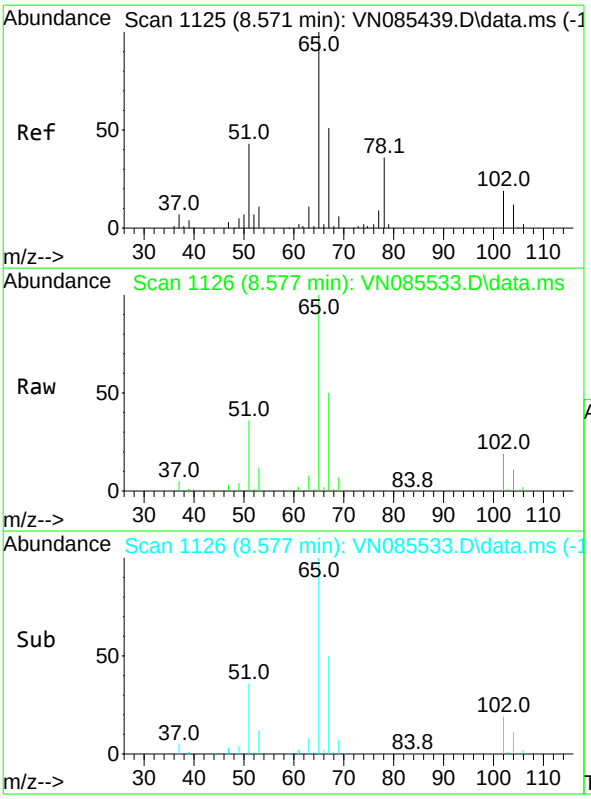




#16
Acetone
Concen: 14.727 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085533.D
Acq: 28 Jan 2025 13:00

Tgt Ion: 43 Resp: 12983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.6 | 23.8 | 35.6 |



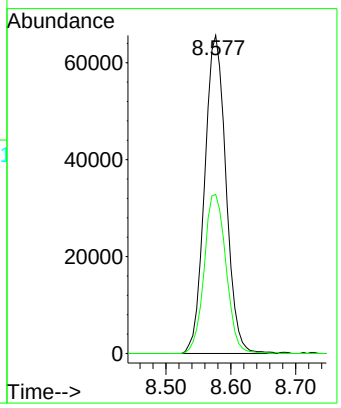


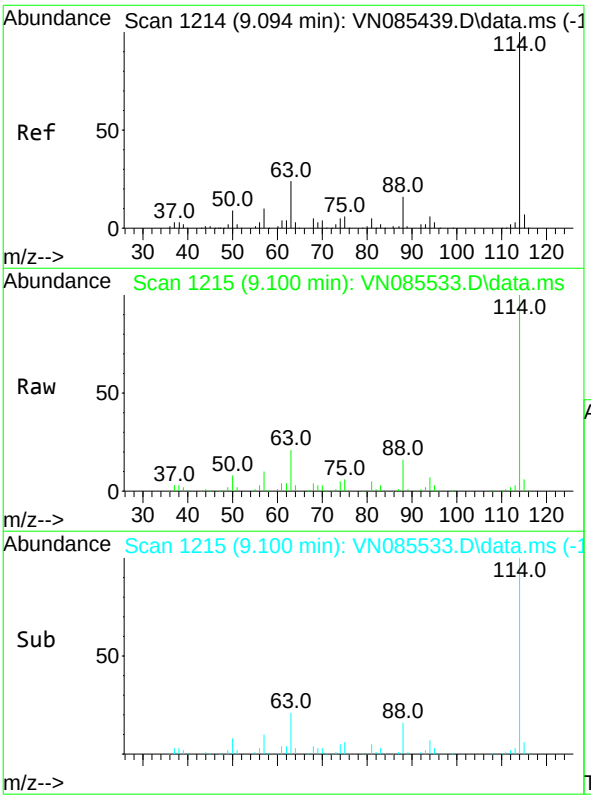

#33
1,2-Dichloroethane-d4
Concen: 54.778 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085533.D
Acq: 28 Jan 2025 13:00

**Instrument :**
MSVOA_N
**ClientSampleId :**
FB

Tgt Ion: 65 Resp: 149462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.4 | 0.0 | 101.6 |

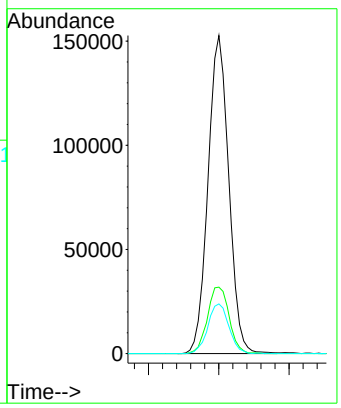


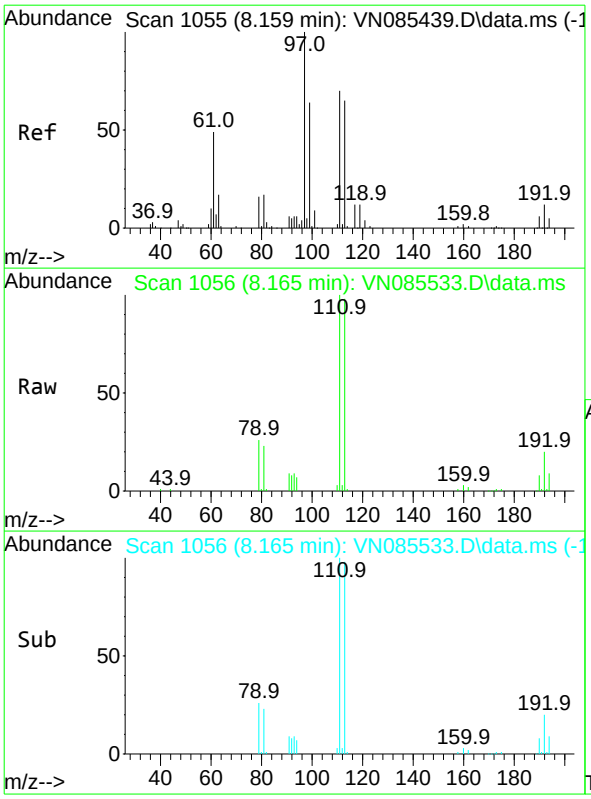




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085533.D
Acq: 28 Jan 2025 13:00

Tgt Ion:114 Resp: 313197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.9 | 0.0 | 47.6 |
| 88 | 15.6 | 0.0 | 32.6 |



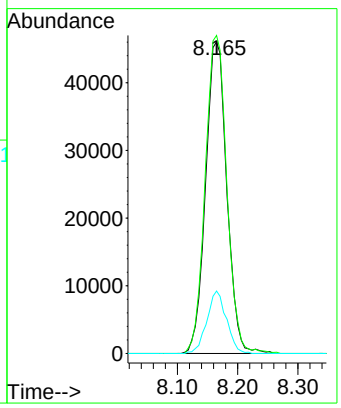


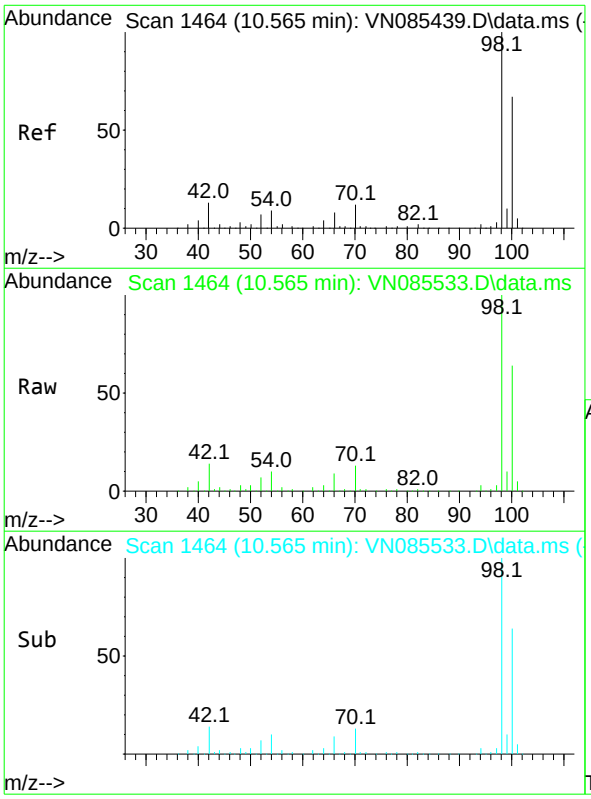

#35
Dibromofluoromethane
Concen: 51.835 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085533.D
Acq: 28 Jan 2025 13:00

**Instrument :**
MSVOA_N
**ClientSampleId :**
FB

Tgt Ion:113 Resp: 112628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.8 | 82.7 | 124.1 |
| 192 | 18.5 | 14.3 | 21.5 |

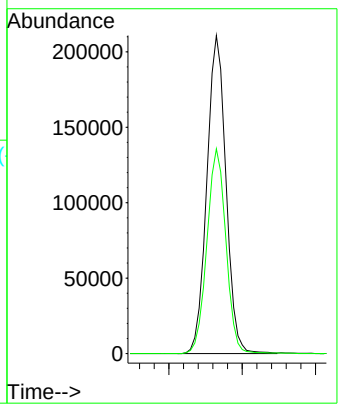


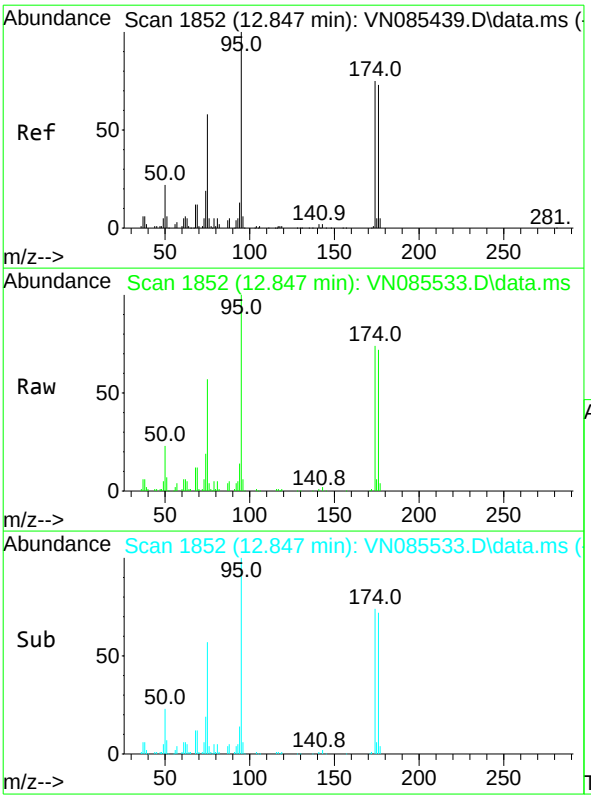




#50
Toluene-d8
Concen: 49.443 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085533.D
Acq: 28 Jan 2025 13:00

Tgt Ion: 98 Resp: 381699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.1 | 52.2 | 78.4 |



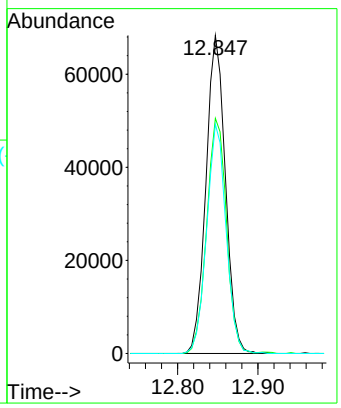


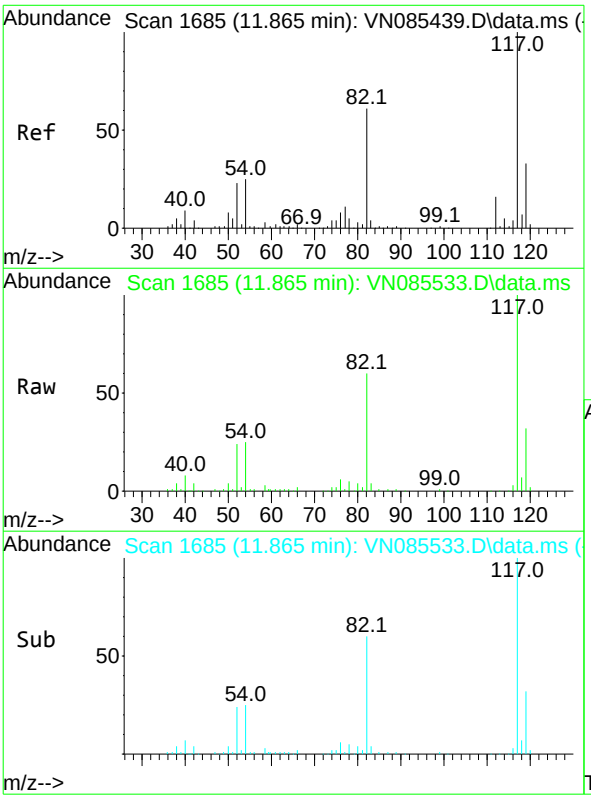

#62
4-Bromofluorobenzene
Concen: 43.430 ug/l
RT: 12.847 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085533.D
Acq: 28 Jan 2025 13:00

**Instrument :**
MSVOA_N
**ClientSampleId :**
FB

Tgt Ion: 95 Resp: 114691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.2 | 0.0 | 145.0 |
| 176 | 71.8 | 0.0 | 142.4 |

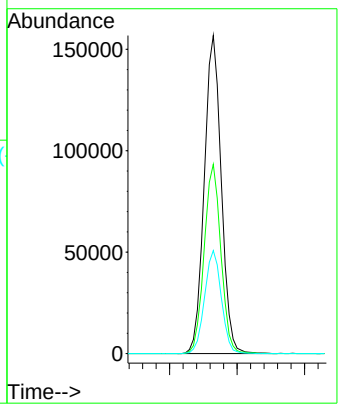


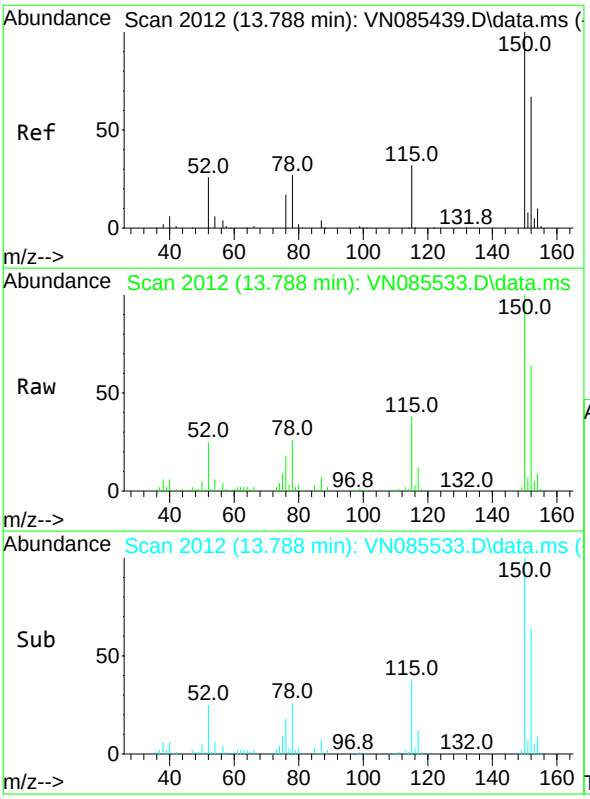




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085533.D
Acq: 28 Jan 2025 13:00

Tgt Ion:117 Resp: 274340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.5 | 48.6 | 72.8 |
| 119 | 32.4 | 26.6 | 39.8 |



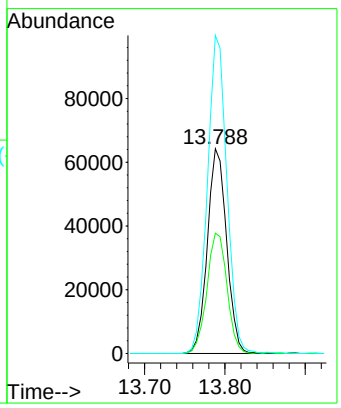



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085533.D
Acq: 28 Jan 2025 13:00

**Instrument :**
MSVOA_N
**ClientSampleId :**
FB

Tgt Ion:152 Resp: 106996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.2 | 31.1 | 93.3 |
| 150 | 156.8 | 0.0 | 343.6 |



Sample Results: **VN085533.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085533.D
Acq On : 28 Jan 2025 13:00
Operator : JC\MD
Sample : Q1194-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
FB

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_N\methods\82N011425W.M
Title : SW846 8260

Signal : TIC: VN085533.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.436 | 412 | 422 | 424 | rBV2 | 6200 | 14329 | 1.37% | 0.268% |
| 2 | 8.165 | 1046 | 1056 | 1060 | rBV | 159227 | 371860 | 35.54% | 6.963% |
| 3 | 8.224 | 1060 | 1066 | 1080 | rVB | 253093 | 567325 | 54.23% | 10.623% |
| 4 | 8.577 | 1117 | 1126 | 1139 | rBV | 176364 | 400693 | 38.30% | 7.503% |
| 5 | 9.100 | 1206 | 1215 | 1224 | rBV | 377138 | 773356 | 73.92% | 14.480% |
| 6 | 10.565 | 1455 | 1464 | 1474 | rBV | 579115 | 1046181 | 100.00% | 19.589% |
| 7 | 11.865 | 1677 | 1685 | 1697 | rBV | 510624 | 891815 | 85.24% | 16.698% |
| 8 | 12.847 | 1844 | 1852 | 1861 | rBV | 349125 | 587273 | 56.13% | 10.996% |
| 9 | 13.788 | 2005 | 2012 | 2020 | rBV | 406352 | 687925 | 65.76% | 12.881% |

Sum of corrected areas: 5340757

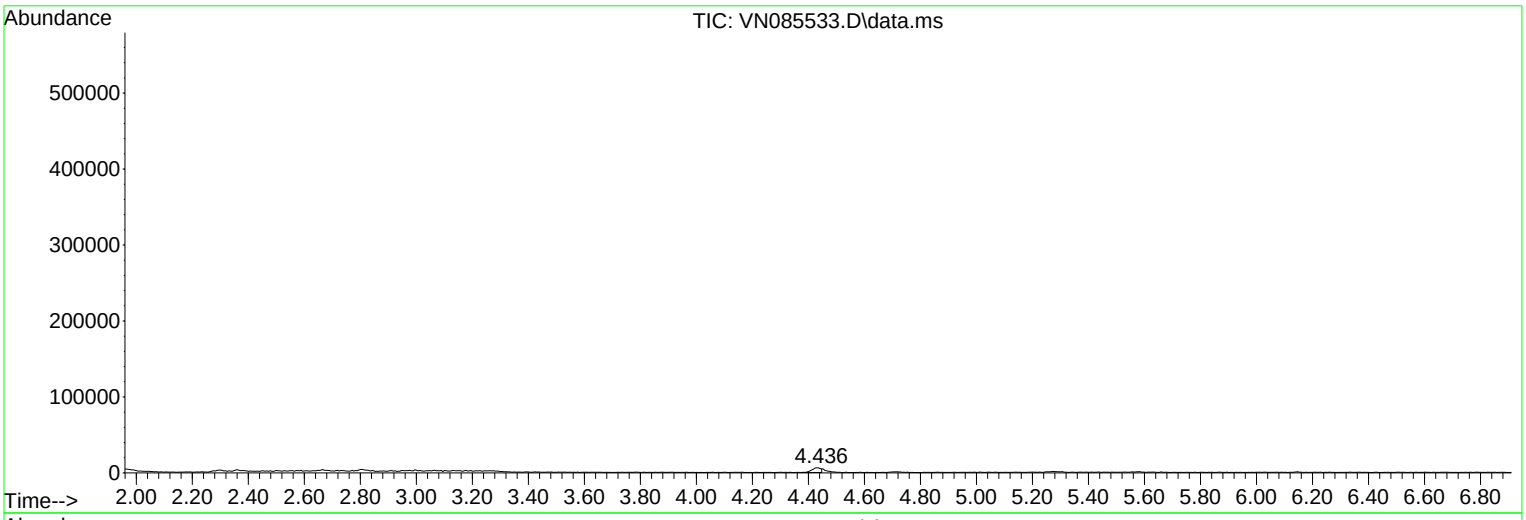
Sample Results: **VN085533.D**

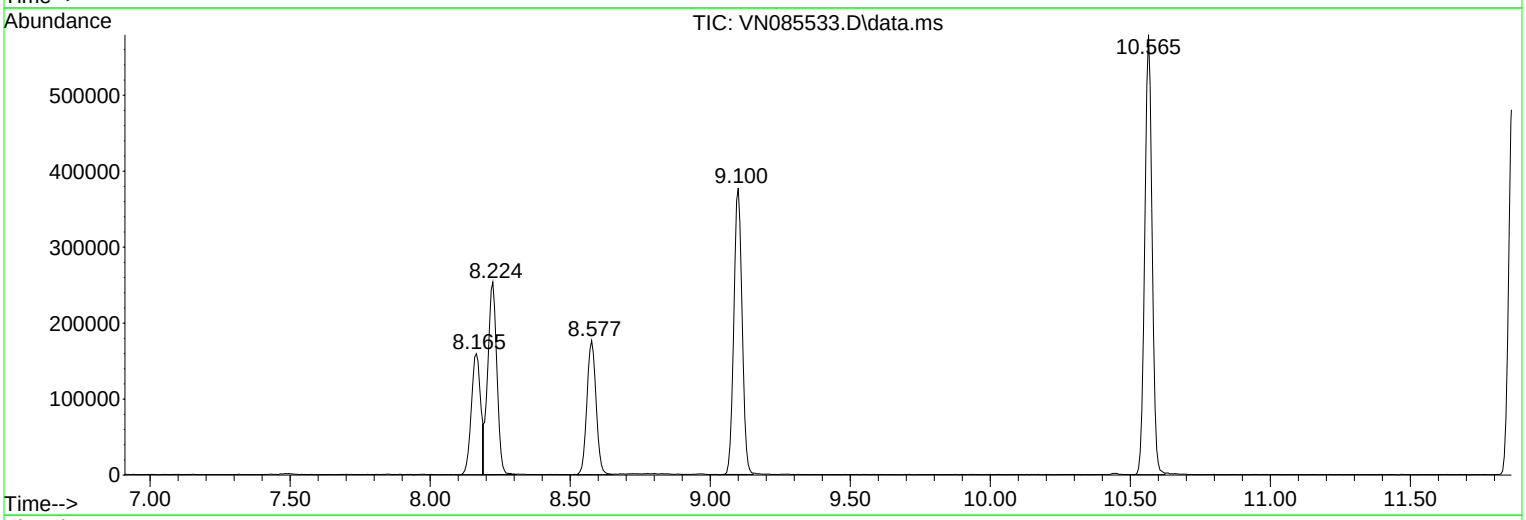
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085533.D
Acq On : 28 Jan 2025 13:00
Operator : JC\MD
Sample : Q1194-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

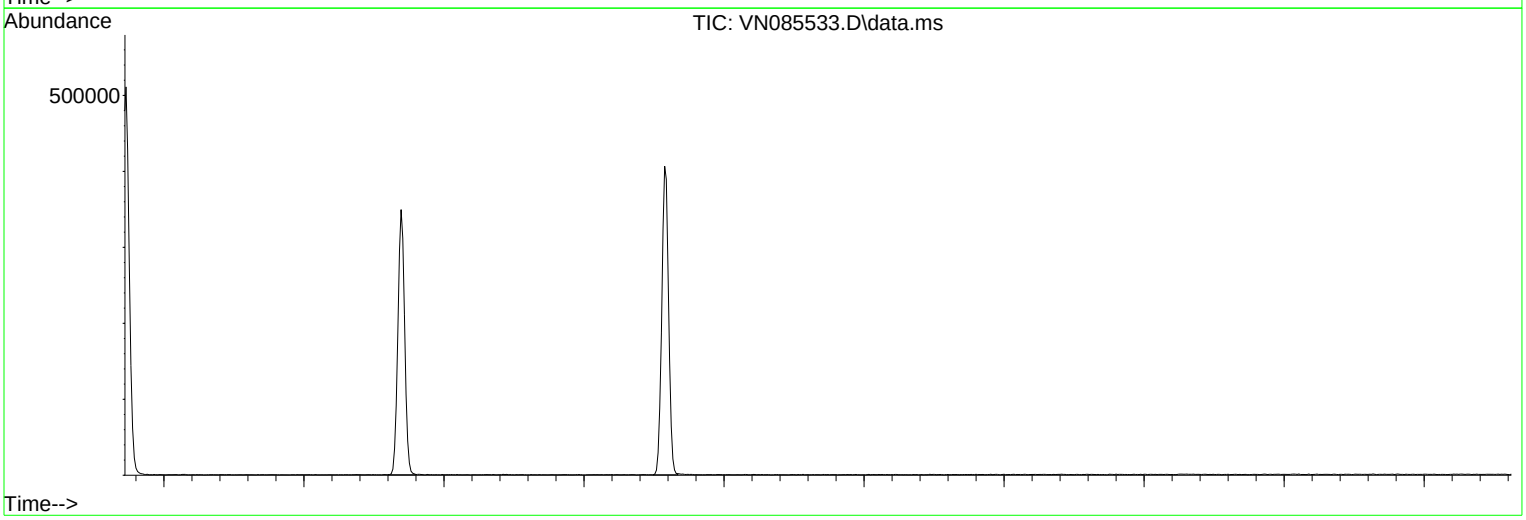
**Instrument :**
MSVOA_N
**ClientSampleId :**
FB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VN085533.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085533.D
Acq On : 28 Jan 2025 13:00
Operator : JC\MD
Sample : Q1194-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
FB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Sample Results: **VN085533.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085533.D
Acq On : 28 Jan 2025 13:00
Operator : JC\MD
Sample : Q1194-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
FB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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

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

Raw Data: **VN085523.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | TB | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-10 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085523.D | 1 | | 01/27/25 17:58 | VN012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.35 | U | 0.35 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.56 | U | 0.56 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.34 | U | 0.34 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.32 | U | 0.32 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.60 | U | 0.60 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.32 | U | 0.32 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.60 | U | 1.60 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 1.30 | U | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.19 | U | 0.19 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.19 | U | 0.19 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.19 | U | 0.19 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.24 | U | 0.24 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.75 | U | 0.75 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.18 | U | 0.18 | 1.00 | ug/L |

Raw Data: **VN085523.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | TB | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-10 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085523.D | 1 | | 01/27/25 17:58 | VN012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.21 | U | 0.21 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.18 | U | 0.18 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 1.10 | U | 1.10 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.31 | U | 0.31 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.14 | U | 0.14 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.21 | U | 0.21 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.27 | U | 0.27 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.24 | U | 0.24 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.27 | U | 0.27 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.46 | U | 0.46 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.42 | U | 0.42 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.51 | U | 0.51 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.2 | | 70 (74) - 130 (125) | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.3 | | 70 (75) - 130 (124) | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.3 | | 70 (86) - 130 (113) | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.0 | | 70 (77) - 130 (121) | 94% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 180000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 326000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 288000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 113000 | 13.788 | | | |

Raw Data: **VN085523.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 01/25/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 01/27/25 |
| Client Sample ID: | TB | SDG No.: | Q1194 |
| Lab Sample ID: | Q1194-10 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085523.D | 1 | | 01/27/25 17:58 | VN012725 |

| 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

Quantitation Report (QT Reviewed)

Sample Results: **VN085523.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085523.D
Acq On : 27 Jan 2025 17:58
Operator : JC\MD
Sample : Q1194-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB

Quant Time: Jan 28 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 180339 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 326143 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 288357 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 112650 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 154833 | 53.188 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 106.380% | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 116109 | 51.316 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 102.640% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 396116 | 49.274 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 98.540% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 129268 | 47.007 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 94.020% | | | |

Target Compounds Qvalue

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

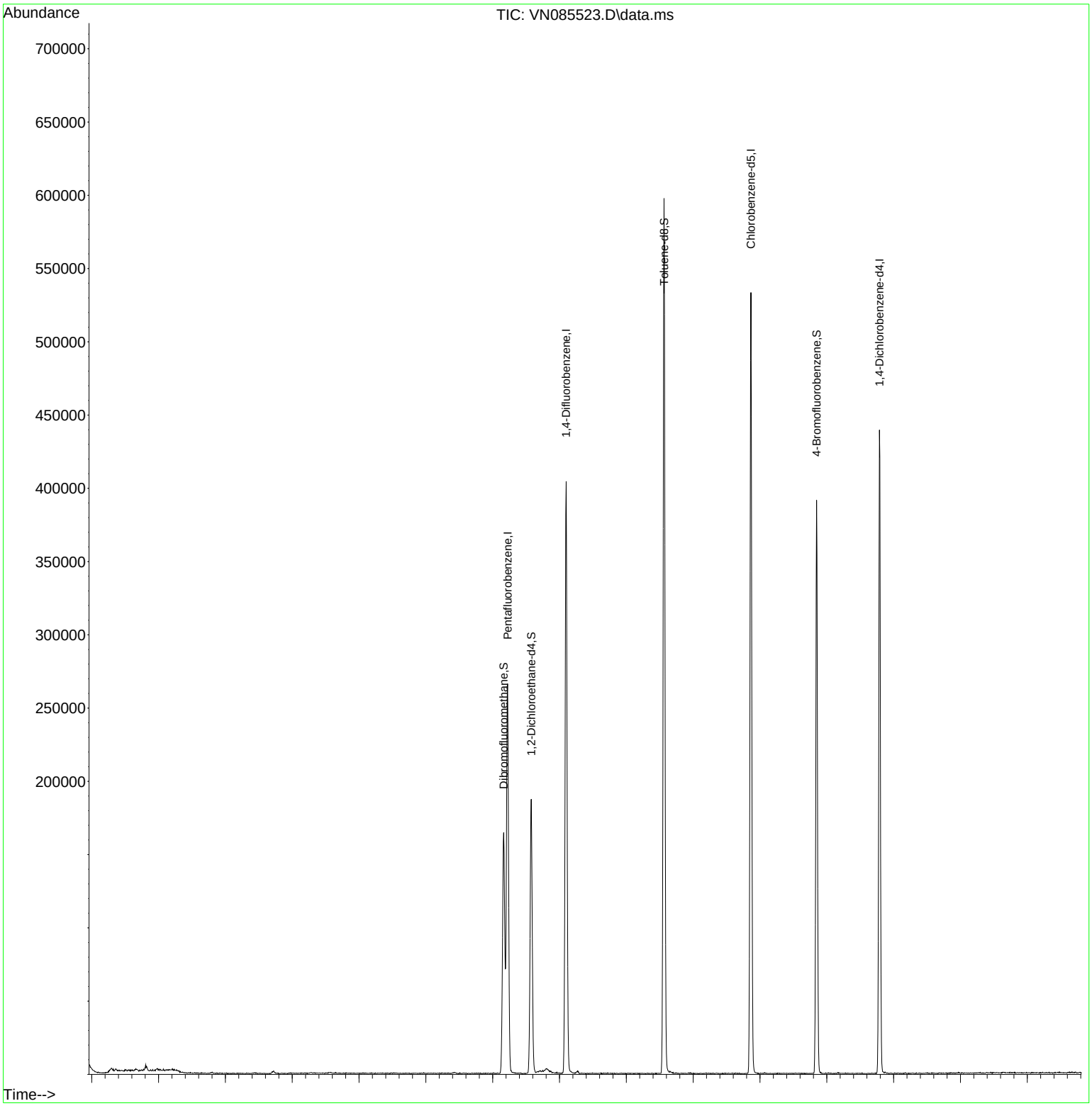
Quantitation Report (QT Reviewed)

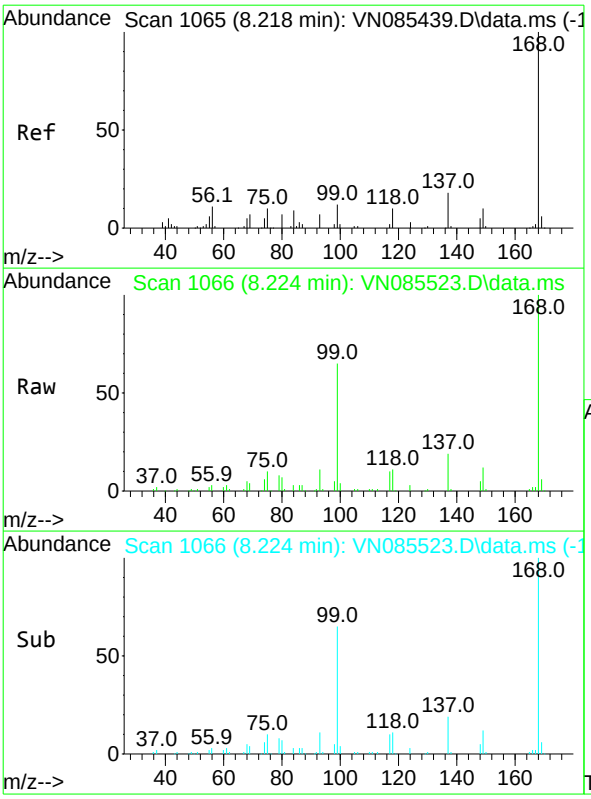
Sample Results: **VN085523.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085523.D
Acq On : 27 Jan 2025 17:58
Operator : JC\MD
Sample : Q1194-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB

Quant Time: Jan 28 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



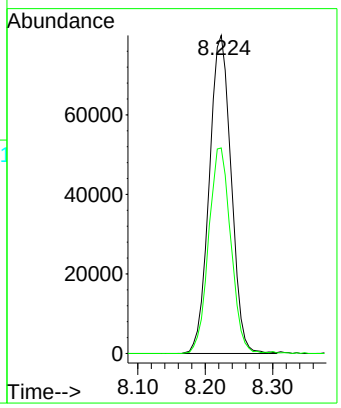


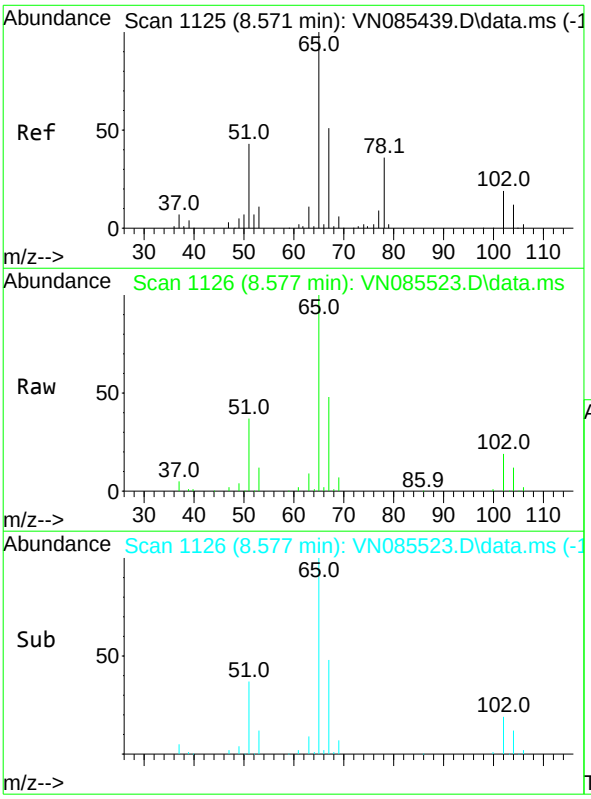

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085523.D
Acq: 27 Jan 2025 17:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB

Tgt Ion:168 Resp: 180339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 64.6 | 53.6 | 80.4 |

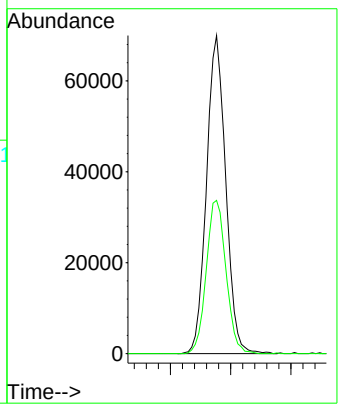


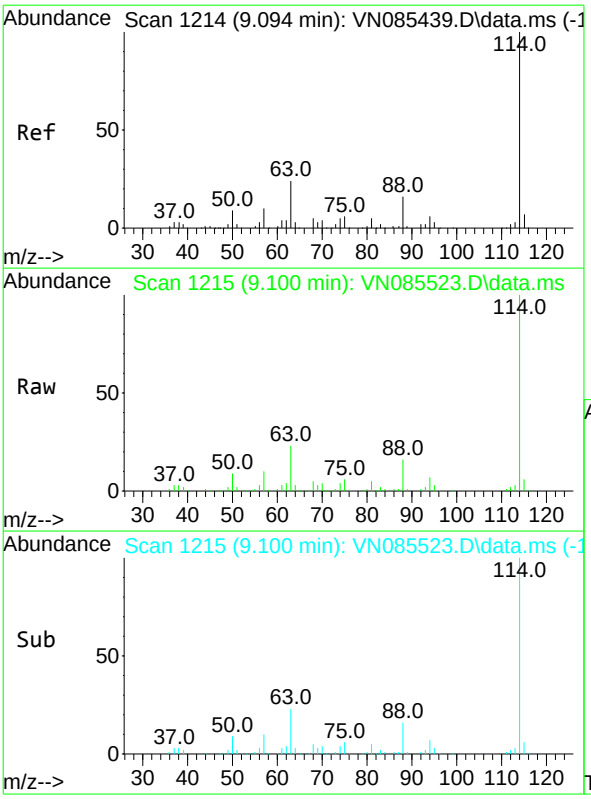




#33
1,2-Dichloroethane-d4
Concen: 53.188 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085523.D
Acq: 27 Jan 2025 17:58

Tgt Ion: 65 Resp: 154833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.5 | 0.0 | 101.6 |



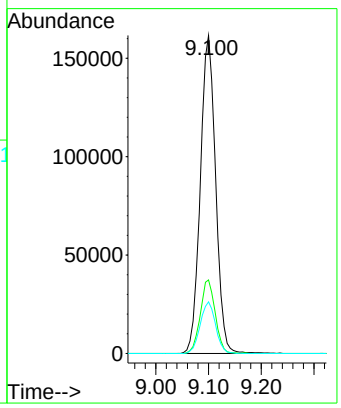


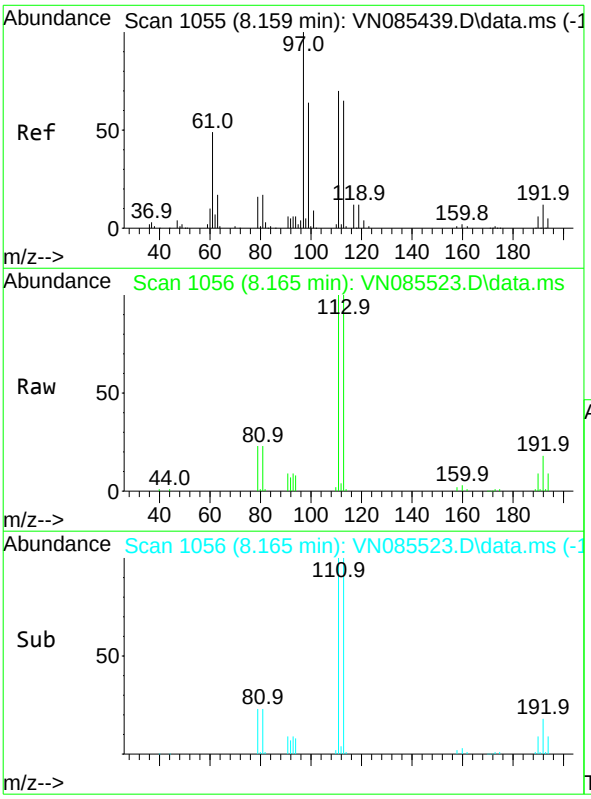

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.006 min
Lab File: VN085523.D
Acq: 27 Jan 2025 17:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB

Tgt Ion:114 Resp: 326143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.1 | 0.0 | 47.6 |
| 88 | 16.2 | 0.0 | 32.6 |

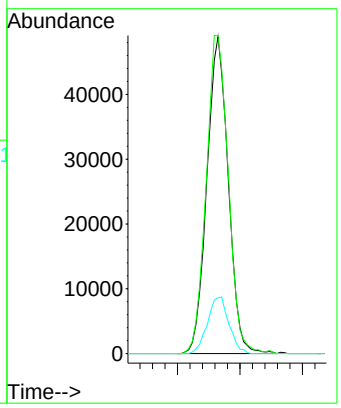


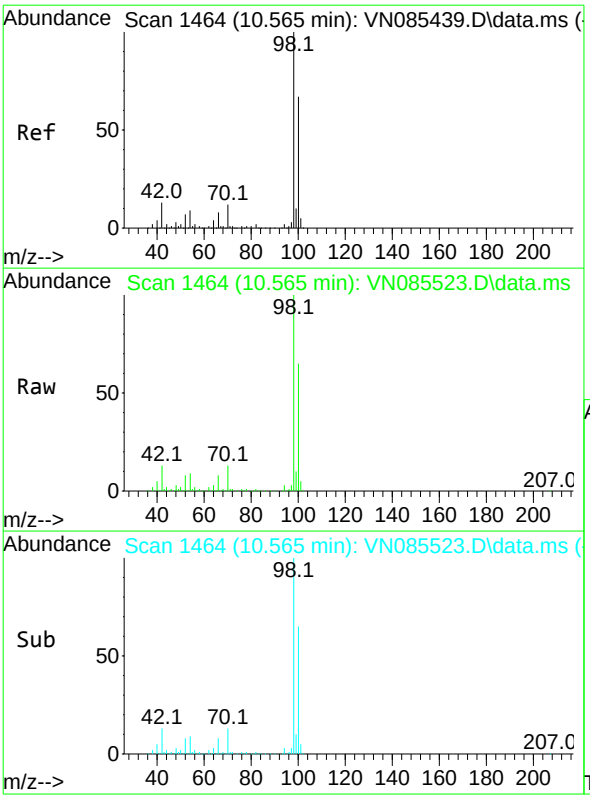




#35
Dibromofluoromethane
Concen: 51.316 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085523.D
Acq: 27 Jan 2025 17:58

Tgt Ion:113 Resp: 116109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.9 | 82.7 | 124.1 |
| 192 | 17.9 | 14.3 | 21.5 |



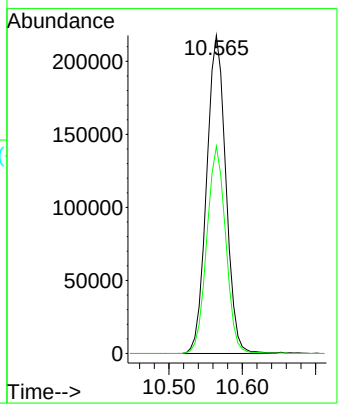


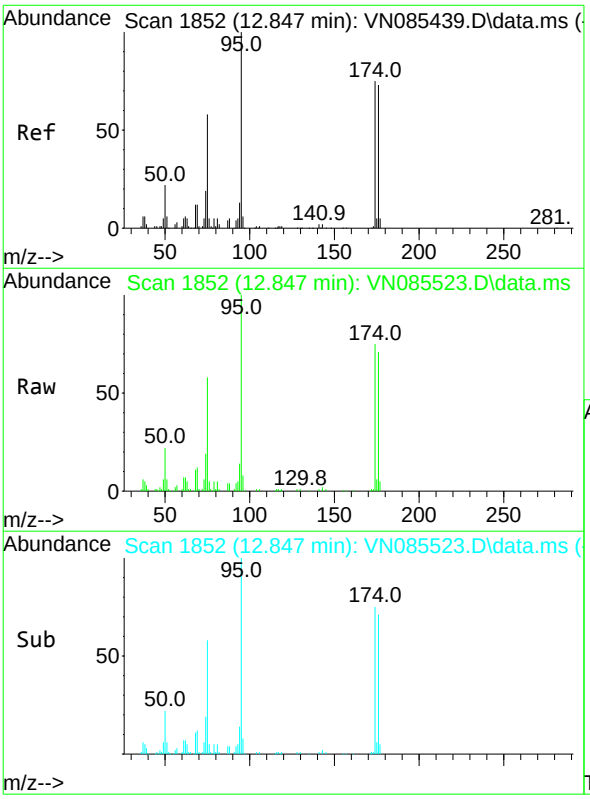

#50
Toluene-d8
Concen: 49.274 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN085523.D
Acq: 27 Jan 2025 17:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB

Tgt Ion: 98 Resp: 396116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.0 | 52.2 | 78.4 |

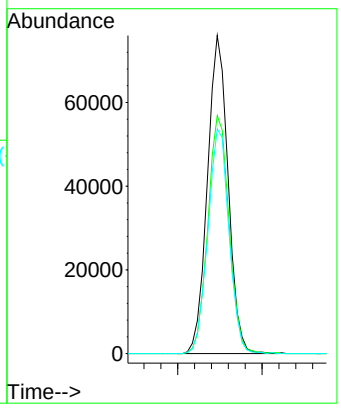


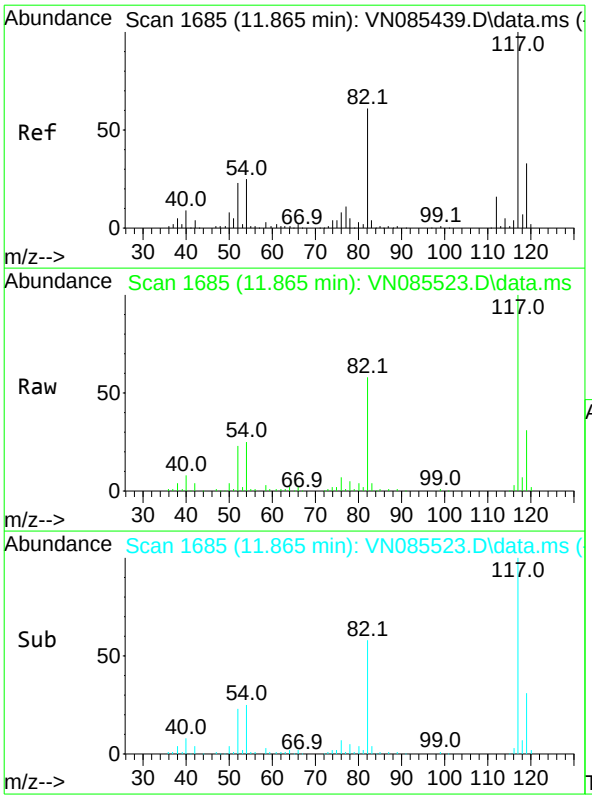




#62
4-Bromofluorobenzene
Concen: 47.007 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085523.D
Acq: 27 Jan 2025 17:58

Tgt Ion: 95 Resp: 129268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 76.9 | 0.0 | 145.0 |
| 176 | 72.1 | 0.0 | 142.4 |



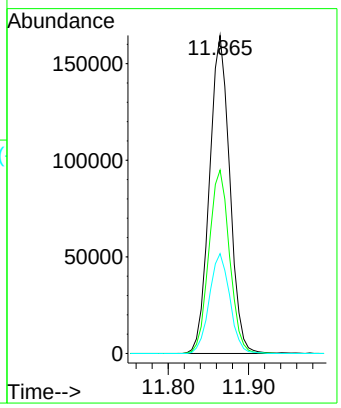


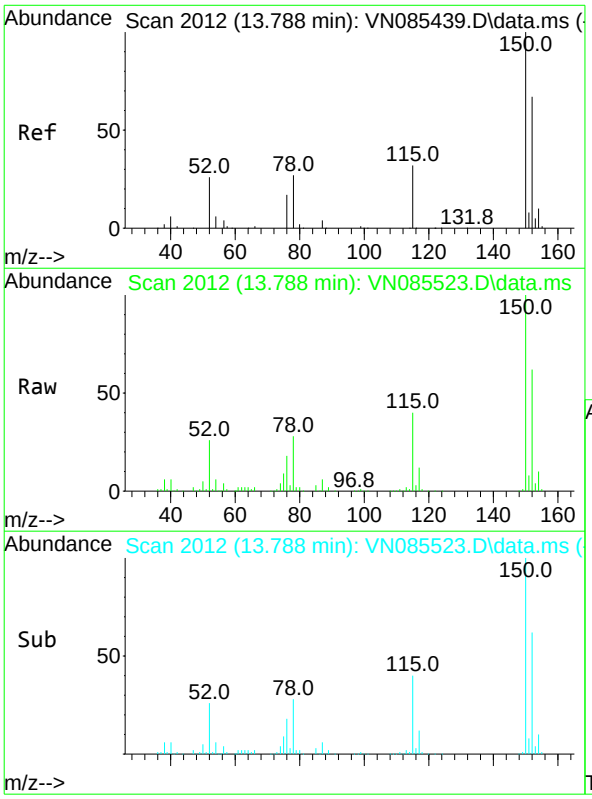

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085523.D
Acq: 27 Jan 2025 17:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB

Tgt Ion:117 Resp: 288357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.6 | 48.6 | 72.8 |
| 119 | 31.4 | 26.6 | 39.8 |

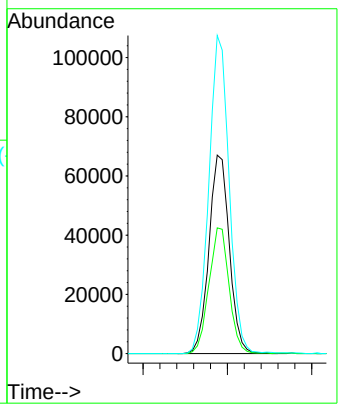



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085523.D
Acq: 27 Jan 2025 17:58

Tgt Ion:152 Resp: 112650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.6 | 31.1 | 93.3 |
| 150 | 160.0 | 0.0 | 343.6 |



Sample Results: **VN085523.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085523.D
Acq On : 27 Jan 2025 17:58
Operator : JC\MD
Sample : Q1194-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB

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_N\methods\82N011425W.M
Title : SW846 8260

Signal : TIC: VN085523.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 8.165 | 1046 | 1056 | 1060 | rBV2 | 164389 | 383209 | 35.46% | 6.813% |
| 2 | 8.224 | 1060 | 1066 | 1078 | rVB | 265478 | 595404 | 55.10% | 10.586% |
| 3 | 8.577 | 1115 | 1126 | 1138 | rBV | 187005 | 410835 | 38.02% | 7.304% |
| 4 | 9.100 | 1205 | 1215 | 1233 | rBV | 404080 | 814507 | 75.38% | 14.481% |
| 5 | 10.565 | 1456 | 1464 | 1478 | rBV | 597231 | 1080542 | 100.00% | 19.211% |
| 6 | 11.865 | 1677 | 1685 | 1698 | rBV | 532957 | 941057 | 87.09% | 16.731% |
| 7 | 12.847 | 1845 | 1852 | 1862 | rBV | 391168 | 663594 | 61.41% | 11.798% |
| 8 | 13.788 | 2004 | 2012 | 2021 | rBV | 439314 | 735351 | 68.05% | 13.074% |

Sum of corrected areas: 5624499

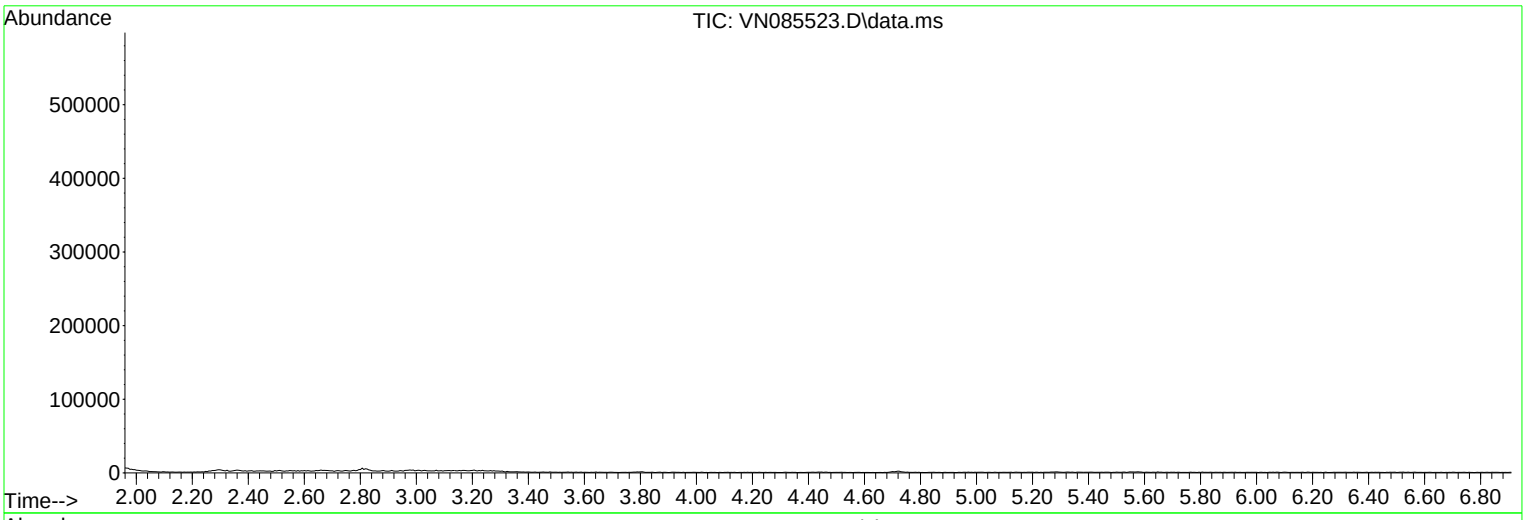
Sample Results: **VN085523.D**

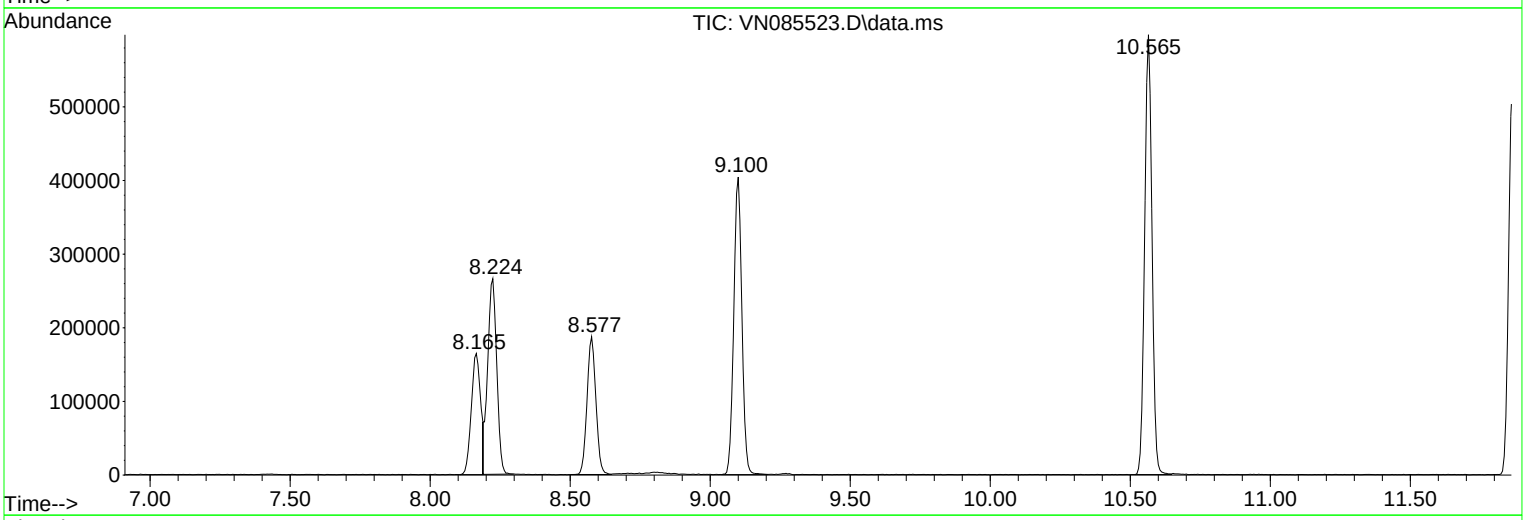
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085523.D
Acq On : 27 Jan 2025 17:58
Operator : JC\MD
Sample : Q1194-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

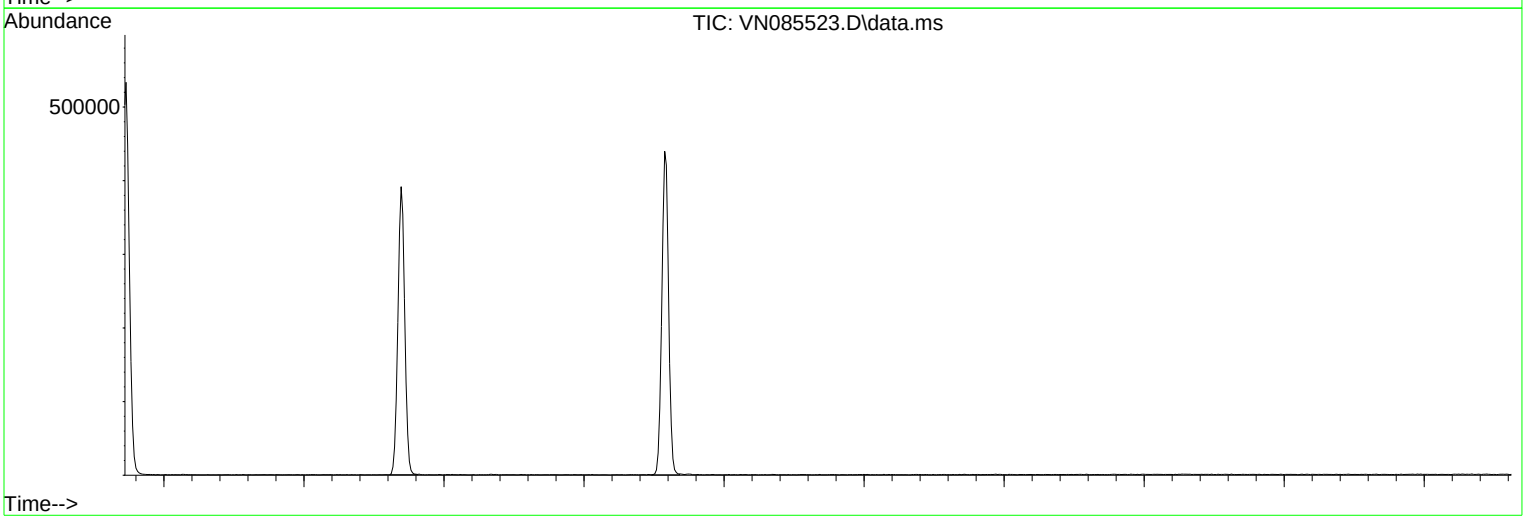
**Instrument :**
MSVOA_N
**ClientSampleId :**
TB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VN085523.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085523.D
Acq On : 27 Jan 2025 17:58
Operator : JC\MD
Sample : Q1194-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Sample Results: **VN085523.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085523.D
Acq On : 27 Jan 2025 17:58
Operator : JC\MD
Sample : Q1194-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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

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

# CALIBRATION SUMMARY

Raw Data

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH  Contract: PORT06

Lab Code: CHEM  Case No.: Q1194  SAS No.: Q1194  SDG No.: Q1194

Instrument ID: MSVOA_N  Calibration Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N  Calibration Time(s): 14:56 17:19

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

LAB FILE ID: RRF100 = VN085438.D  RRF050 = VN085439.D  RRF020 = VN085440.D
RRF010 = VN085441.D  RRF005 = VN085442.D  RRF001 = VN085443.D

| COMPOUND | RRF100 | RRF050 | RRF020 | RRF010 | RRF005 | RRF001 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.664 | 0.629 | 0.681 | 0.667 | 0.708 | 0.714 | 0.677 | 4.6 |
| Chloromethane | 0.680 | 0.680 | 0.727 | 0.693 | 0.779 | 0.839 | 0.733 | 8.8 |
| Vinyl Chloride | 0.697 | 0.686 | 0.727 | 0.711 | 0.781 | 0.819 | 0.737 | 7.1 |
| Bromomethane | 0.392 | 0.417 | 0.454 | 0.437 | 0.525 | | 0.445 | 11.3 |
| Chloroethane | 0.435 | 0.424 | 0.468 | 0.429 | 0.505 | 0.542 | 0.467 | 10.3 |
| Trichlorofluoromethane | 1.046 | 0.997 | 1.097 | 1.040 | 1.077 | 1.157 | 1.069 | 5.1 |
| 1,1,2-Trichlorotrifluoroethane | 0.590 | 0.542 | 0.609 | 0.587 | 0.639 | 0.646 | 0.602 | 6.4 |
| 1,1-Dichloroethene | 0.548 | 0.533 | 0.556 | 0.526 | 0.559 | 0.497 | 0.537 | 4.3 |
| Acetone | 0.238 | 0.252 | 0.252 | 0.247 | 0.269 | 0.306 | 0.261 | 9.3 |
| Carbon Disulfide | 1.555 | 1.477 | 1.647 | 1.537 | 1.719 | 1.978 | 1.652 | 11 |
| Methyl tert-butyl Ether | 1.834 | 1.873 | 1.853 | 1.664 | 1.685 | 1.545 | 1.742 | 7.5 |
| Methyl Acetate | 0.751 | 0.790 | 0.758 | 0.779 | 0.810 | 0.871 | 0.793 | 5.5 |
| Methylene Chloride | 0.629 | 0.629 | 0.658 | 0.606 | 0.696 | 0.656 | 0.646 | 4.9 |
| trans-1,2-Dichloroethene | 0.571 | 0.555 | 0.574 | 0.539 | 0.569 | 0.632 | 0.573 | 5.5 |
| 1,1-Dichloroethane | 1.164 | 1.170 | 1.206 | 1.100 | 1.226 | 1.204 | 1.178 | 3.8 |
| Cyclohexane | 0.984 | 0.881 | 1.033 | 1.026 | 1.198 | | 1.024 | 11.2 |
| 2-Butanone | 0.378 | 0.390 | 0.398 | 0.363 | 0.387 | 0.386 | 0.384 | 3.1 |
| Carbon Tetrachloride | 0.574 | 0.530 | 0.579 | 0.529 | 0.565 | 0.567 | 0.557 | 4 |
| cis-1,2-Dichloroethene | 0.691 | 0.683 | 0.715 | 0.639 | 0.669 | 0.655 | 0.675 | 4 |
| Bromochloromethane | 0.530 | 0.542 | 0.513 | 0.486 | 0.595 | 0.624 | 0.548 | 9.4 |
| Chloroform | 1.197 | 1.175 | 1.241 | 1.169 | 1.253 | 1.273 | 1.218 | 3.6 |
| 1,1,1-Trichloroethane | 1.053 | 1.016 | 1.091 | 1.000 | 1.148 | 1.102 | 1.068 | 5.2 |
| Methylcyclohexane | 0.564 | 0.463 | 0.477 | 0.407 | 0.437 | 0.397 | 0.457 | 13.3 |
| Benzene | 1.551 | 1.449 | 1.527 | 1.376 | 1.474 | 1.400 | 1.463 | 4.7 |
| 1,2-Dichloroethane | 0.569 | 0.547 | 0.575 | 0.522 | 0.574 | 0.517 | 0.551 | 4.8 |
| Trichloroethene | 0.362 | 0.324 | 0.352 | 0.310 | 0.343 | 0.352 | 0.341 | 5.8 |
| 1,2-Dichloropropane | 0.390 | 0.371 | 0.388 | 0.334 | 0.388 | 0.371 | 0.374 | 5.7 |
| Bromodichloromethane | 0.590 | 0.559 | 0.579 | 0.514 | 0.569 | 0.484 | 0.549 | 7.5 |
| 4-Methyl-2-Pentanone | 0.499 | 0.492 | 0.495 | 0.432 | 0.443 | 0.380 | 0.457 | 10.3 |
| Toluene | 0.964 | 0.870 | 0.919 | 0.808 | 0.835 | 0.690 | 0.848 | 11.3 |

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

Raw Data

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH  Contract: PORT06

Lab Code: CHEM  Case No.: Q1194  SAS No.: Q1194  SDG No.: Q1194

Instrument ID: MSVOA_N  Calibration Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N  Calibration Time(s): 14:56 17:19

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

LAB FILE ID: RRF100 = VN085438.D  RRF050 = VN085439.D  RRF020 = VN085440.D
RRF010 = VN085441.D  RRF005 = VN085442.D  RRF001 = VN085443.D

| COMPOUND | RRF100 | RRF050 | RRF020 | RRF010 | RRF005 | RRF001 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.594 | 0.551 | 0.544 | 0.481 | 0.527 | 0.416 | 0.519 | 12 |
| cis-1,3-Dichloropropene | 0.623 | 0.588 | 0.601 | 0.527 | 0.538 | 0.450 | 0.554 | 11.4 |
| 1,1,2-Trichloroethane | 0.348 | 0.340 | 0.353 | 0.309 | 0.349 | 0.314 | 0.335 | 5.7 |
| 2-Hexanone | 0.358 | 0.357 | 0.353 | 0.298 | 0.302 | 0.261 | 0.321 | 12.6 |
| Dibromochloromethane | 0.430 | 0.414 | 0.412 | 0.368 | 0.420 | 0.386 | 0.405 | 5.8 |
| 1,2-Dibromoethane | 0.349 | 0.334 | 0.356 | 0.309 | 0.321 | 0.334 | 0.334 | 5.2 |
| Tetrachloroethene | 0.351 | 0.322 | 0.365 | 0.338 | 0.346 | 0.323 | 0.341 | 4.9 |
| Chlorobenzene | 1.133 | 1.076 | 1.154 | 1.047 | 1.110 | 1.051 | 1.095 | 4 |
| Ethyl Benzene | 2.072 | 1.867 | 1.940 | 1.685 | 1.709 | 1.430 | 1.784 | 12.7 |
| m/p-Xylenes | 0.775 | 0.707 | 0.750 | 0.615 | 0.616 | 0.492 | 0.659 | 16 |
| o-Xylene | 0.738 | 0.681 | 0.713 | 0.584 | 0.582 | 0.482 | 0.630 | 15.5 |
| Styrene | 1.271 | 1.173 | 1.186 | 0.956 | 0.929 | 0.742 | 1.043 | 19.2 |
| Bromoform | 0.311 | 0.311 | 0.312 | 0.273 | 0.284 | 0.235 | 0.288 | 10.6 |
| Isopropylbenzene | 3.922 | 3.448 | 3.681 | 3.272 | 3.157 | 2.766 | 3.375 | 12.1 |
| 1,1,2,2-Tetrachloroethane | 1.121 | 1.145 | 1.187 | 1.157 | 1.228 | 1.314 | 1.192 | 5.9 |
| 1,3-Dichlorobenzene | 1.720 | 1.565 | 1.701 | 1.574 | 1.656 | 1.526 | 1.624 | 4.9 |
| 1,4-Dichlorobenzene | 1.706 | 1.562 | 1.713 | 1.607 | 1.743 | 1.767 | 1.683 | 4.8 |
| 1,2-Dichlorobenzene | 1.611 | 1.555 | 1.654 | 1.532 | 1.600 | 1.766 | 1.620 | 5.2 |
| 1,2-Dibromo-3-Chloropropane | 0.218 | 0.222 | 0.224 | 0.212 | 0.228 | 0.202 | 0.218 | 4.3 |
| 1,2,4-Trichlorobenzene | 0.858 | 0.781 | 0.799 | 0.704 | 0.717 | 0.658 | 0.753 | 9.7 |
| 1,2,3-Trichlorobenzene | 0.817 | 0.786 | 0.792 | 0.732 | 0.693 | 0.750 | 0.762 | 6 |
| 1,2-Dichloroethane-d4 | 0.774 | 0.831 | 0.754 | 0.762 | 0.914 | | 0.807 | 8.3 |
| Dibromofluoromethane | 0.359 | 0.358 | 0.335 | 0.310 | 0.373 | | 0.347 | 7.1 |
| Toluene-d8 | 1.339 | 1.267 | 1.207 | 1.076 | 1.274 | | 1.232 | 8.1 |
| 4-Bromofluorobenzene | 0.475 | 0.449 | 0.410 | 0.357 | 0.417 | | 0.422 | 10.6 |

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

Response Factor Report MSVOA_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N011425W.M
Title : SW846 8260
Last Update : Wed Jan 15 02:16:08 2025
Response Via : Initial Calibration

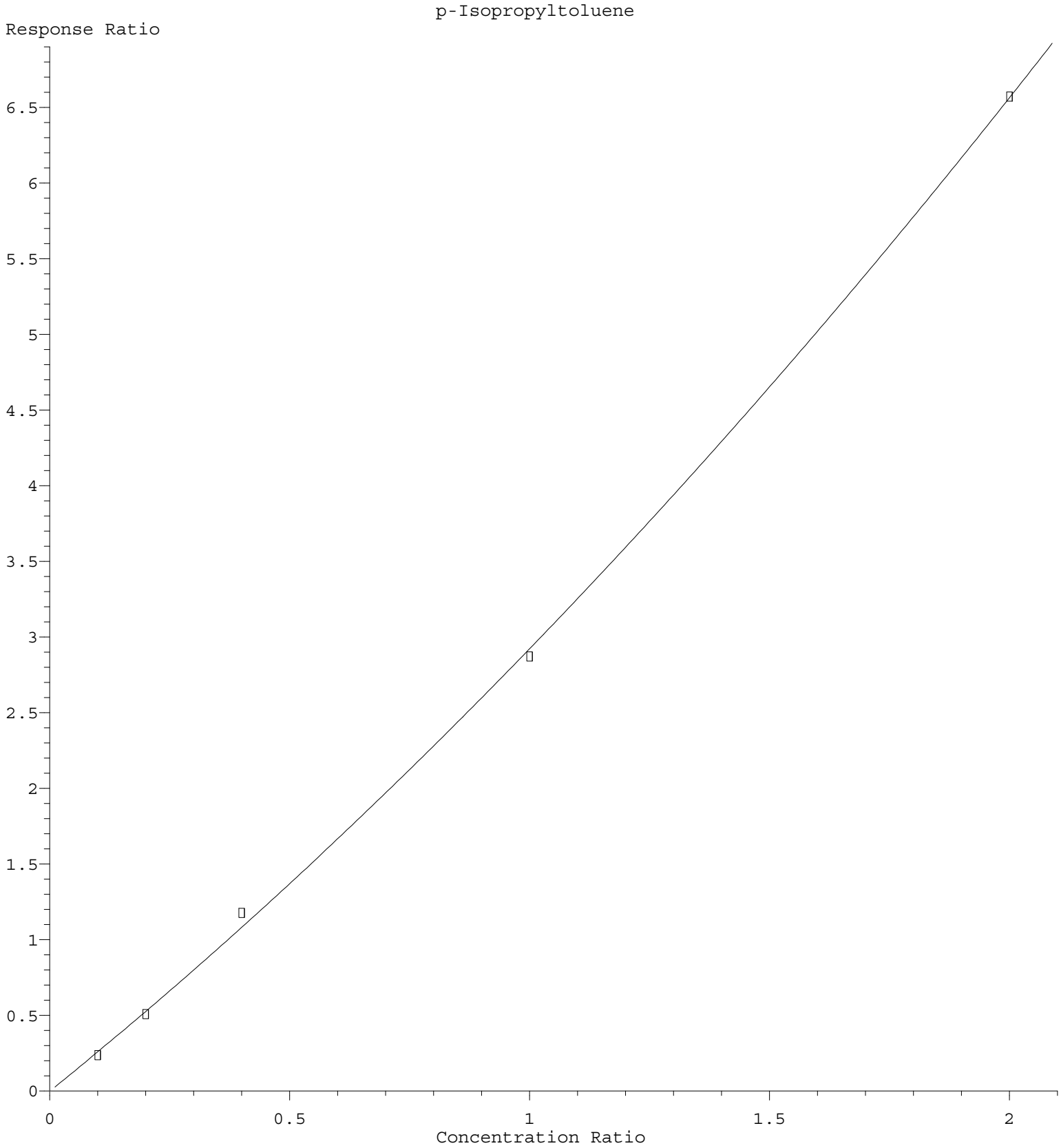
Calibration Files
1 =VN085443.D 5 =VN085442.D 10 =VN085441.D 20 =VN085440.D 50 =VN085439.D 100 =VN085438.D

| | | Compound | 1 | 5 | 10 | 20 | 50 | 100 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.714 | 0.708 | 0.667 | 0.681 | 0.629 | 0.664 | 0.677 | 4.59 |
| 3) | P | Chloromethane | 0.839 | 0.779 | 0.693 | 0.727 | 0.680 | 0.680 | 0.733 | 8.77 |
| 4) | C | Vinyl Chloride | 0.819 | 0.781 | 0.711 | 0.727 | 0.686 | 0.697 | 0.737 | 7.06# |
| 5) | T | Bromomethane | | 0.525 | 0.437 | 0.454 | 0.417 | 0.392 | 0.445 | 11.26 |
| 6) | T | Chloroethane | 0.542 | 0.505 | 0.429 | 0.468 | 0.424 | 0.435 | 0.467 | 10.27 |
| 7) | T | Trichlorofluor... | 1.157 | 1.077 | 1.040 | 1.097 | 0.997 | 1.046 | 1.069 | 5.14 |
| 8) | T | Diethyl Ether | 0.457 | 0.357 | 0.317 | 0.363 | 0.360 | 0.362 | 0.369 | 12.59 |
| 9) | T | 1,1,2-Trichlor... | 0.646 | 0.639 | 0.587 | 0.609 | 0.542 | 0.590 | 0.602 | 6.35 |
| 10) | T | Methyl Iodide | | 0.661 | 0.640 | 0.704 | 0.719 | 0.723 | 0.690 | 5.35 |
| 11) | T | Tert butyl alc... | | 0.097 | 0.092 | 0.095 | 0.093 | 0.085 | 0.092 | 4.80 |
| 12) | CM | 1,1-Dichloroet... | 0.497 | 0.559 | 0.526 | 0.556 | 0.533 | 0.548 | 0.537 | 4.31# |
| 13) | T | Acrolein | | 0.101 | 0.131 | 0.124 | 0.140 | 0.136 | 0.126 | 12.09 |
| 14) | T | Allyl chloride | 0.952 | 0.897 | 0.823 | 0.843 | 0.846 | 0.863 | 0.871 | 5.42 |
| 15) | T | Acrylonitrile | 0.298 | 0.299 | 0.275 | 0.303 | 0.298 | 0.289 | 0.294 | 3.39 |
| 16) | T | Acetone | 0.306 | 0.269 | 0.247 | 0.252 | 0.252 | 0.238 | 0.261 | 9.28 |
| 17) | T | Carbon Disulfide | 1.978 | 1.719 | 1.537 | 1.647 | 1.477 | 1.555 | 1.652 | 10.95 |
| 18) | T | Methyl Acetate | 0.871 | 0.810 | 0.779 | 0.758 | 0.790 | 0.751 | 0.793 | 5.54 |
| 19) | T | Methyl tert-bu... | 1.545 | 1.685 | 1.664 | 1.853 | 1.873 | 1.834 | 1.742 | 7.53 |
| 20) | T | Methylene Chlo... | 0.656 | 0.696 | 0.606 | 0.658 | 0.629 | 0.629 | 0.646 | 4.86 |
| 21) | T | trans-1,2-Dich... | 0.632 | 0.569 | 0.539 | 0.574 | 0.555 | 0.571 | 0.573 | 5.50 |
| 22) | T | Diisopropyl ether | 1.705 | 1.918 | 1.834 | 2.076 | 2.037 | 2.026 | 1.933 | 7.38 |
| 23) | T | Vinyl Acetate | 1.110 | 1.270 | 1.279 | 1.466 | 1.495 | 1.495 | 1.353 | 11.67 |
| 24) | P | 1,1-Dichloroet... | 1.204 | 1.226 | 1.100 | 1.206 | 1.170 | 1.164 | 1.178 | 3.81 |
| 25) | T | 2-Butanone | 0.386 | 0.387 | 0.363 | 0.398 | 0.390 | 0.378 | 0.384 | 3.12 |
| 26) | T | 2,2-Dichloropr... | 0.930 | 0.986 | 0.922 | 0.985 | 0.936 | 0.958 | 0.953 | 2.96 |
| 27) | T | cis-1,2-Dichlo... | 0.655 | 0.669 | 0.639 | 0.715 | 0.683 | 0.691 | 0.675 | 4.02 |
| 28) | T | Bromochloromet... | 0.624 | 0.595 | 0.486 | 0.513 | 0.542 | 0.530 | 0.548 | 9.44 |
| 29) | T | Tetrahydrofuran | 0.221 | 0.236 | 0.233 | 0.261 | 0.260 | 0.248 | 0.243 | 6.58 |
| 30) | C | Chloroform | 1.273 | 1.253 | 1.169 | 1.241 | 1.175 | 1.197 | 1.218 | 3.59# |
| 31) | T | Cyclohexane | | 1.198 | 1.026 | 1.033 | 0.881 | 0.984 | 1.024 | 11.18 |
| 32) | T | 1,1,1-Trichlor... | 1.102 | 1.148 | 1.000 | 1.091 | 1.016 | 1.053 | 1.068 | 5.24 |
| 33) | S | 1,2-Dichloroet... | | 0.914 | 0.762 | 0.754 | 0.831 | 0.774 | 0.807 | 8.28 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | | 0.373 | 0.310 | 0.335 | 0.358 | 0.359 | 0.347 | 7.10 |
| 36) | T | 1,1-Dichloropr... | 0.509 | 0.490 | 0.441 | 0.499 | 0.462 | 0.521 | 0.487 | 6.17 |
| 37) | T | Ethyl Acetate | 0.504 | 0.520 | 0.452 | 0.488 | 0.488 | 0.496 | 0.491 | 4.66 |
| 38) | T | Carbon Tetrach... | 0.567 | 0.565 | 0.529 | 0.579 | 0.530 | 0.574 | 0.557 | 3.96 |
| 39) | T | Methylcyclohexane | 0.397 | 0.437 | 0.407 | 0.477 | 0.463 | 0.564 | 0.457 | 13.29 |
| 40) | TM | Benzene | 1.400 | 1.474 | 1.376 | 1.527 | 1.449 | 1.551 | 1.463 | 4.70 |
| 41) | T | Methacrylonitrile | 0.241 | 0.227 | 0.248 | 0.268 | 0.270 | 0.280 | 0.256 | 7.89 |
| 42) | TM | 1,2-Dichloroet... | 0.517 | 0.574 | 0.522 | 0.575 | 0.547 | 0.569 | 0.551 | 4.78 |
| 43) | T | Isopropyl Acetate | 0.793 | 0.764 | 0.719 | 0.801 | 0.813 | 0.835 | 0.787 | 5.20 |
| 44) | TM | Trichloroethene | 0.352 | 0.343 | 0.310 | 0.352 | 0.324 | 0.362 | 0.341 | 5.79 |
| 45) | C | 1,2-Dichloropr... | 0.371 | 0.388 | 0.334 | 0.388 | 0.371 | 0.390 | 0.374 | 5.69# |
| 46) | T | Dibromomethane | 0.292 | 0.254 | 0.254 | 0.277 | 0.267 | 0.275 | 0.270 | 5.50 |
| 47) | T | Bromodichlorom... | 0.484 | 0.569 | 0.514 | 0.579 | 0.559 | 0.590 | 0.549 | 7.48 |
| 48) | T | Methyl methacr... | 0.311 | 0.326 | 0.321 | 0.369 | 0.392 | 0.406 | 0.354 | 11.37 |
| 49) | T | 1,4-Dioxane | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 6.72 |
| 50) | S | Toluene-d8 | | 1.274 | 1.076 | 1.207 | 1.267 | 1.339 | 1.232 | 8.07 |
| 51) | T | 4-Methyl-2-Pen... | 0.380 | 0.443 | 0.432 | 0.495 | 0.492 | 0.499 | 0.457 | 10.33 |
| 52) | CM | Toluene | 0.690 | 0.835 | 0.808 | 0.919 | 0.870 | 0.964 | 0.848 | 11.27# |
| 53) | T | t-1,3-Dichloro... | 0.416 | 0.527 | 0.481 | 0.544 | 0.551 | 0.594 | 0.519 | 11.98 |
| 54) | T | cis-1,3-Dichlo... | 0.450 | 0.538 | 0.527 | 0.601 | 0.588 | 0.623 | 0.554 | 11.40 |
| 55) | T | 1,1,2-Trichlor... | 0.314 | 0.349 | 0.309 | 0.353 | 0.340 | 0.348 | 0.335 | 5.67 |

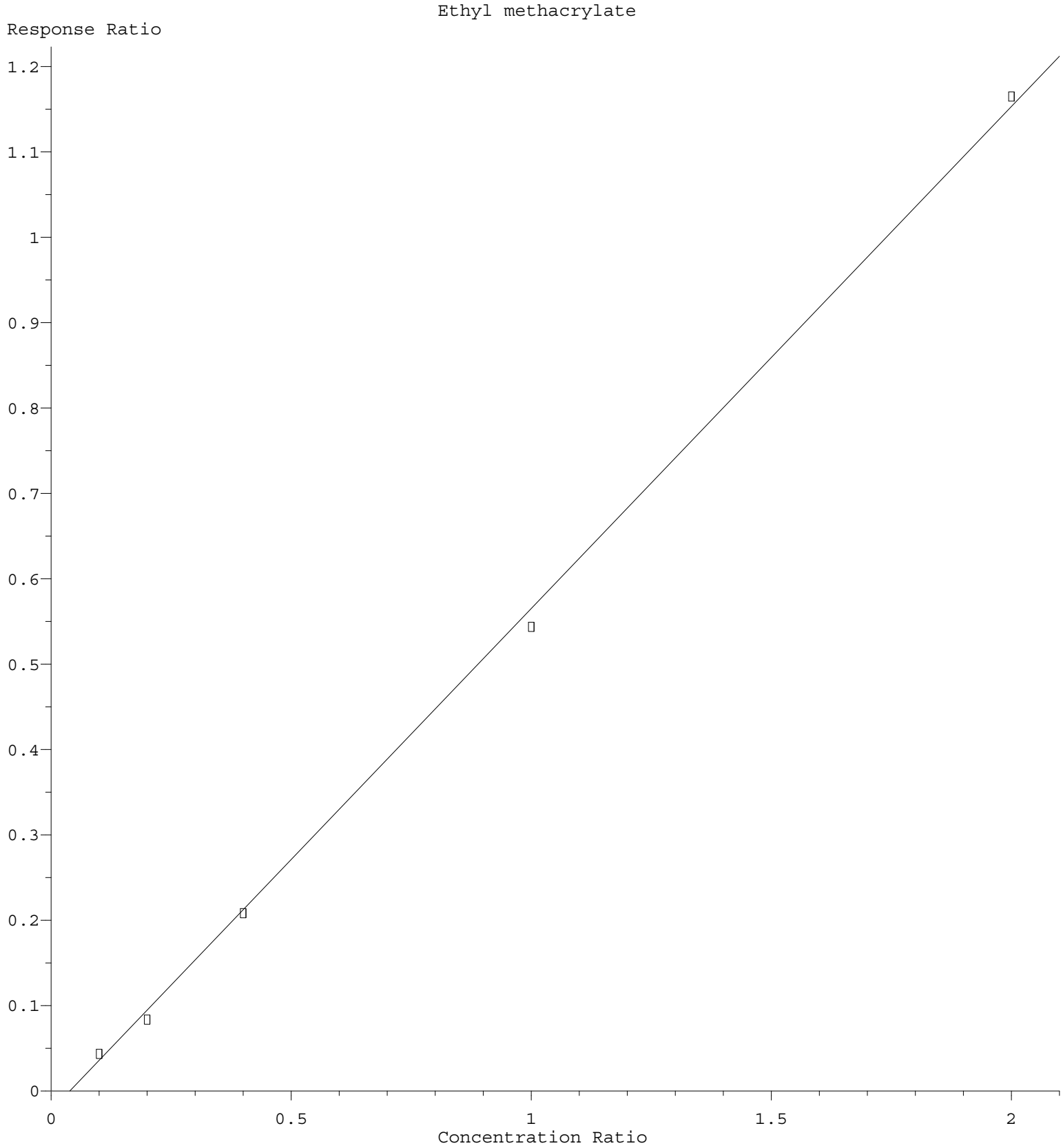
Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N011425W.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 56) | T | Ethyl methacry... | 0.317 | 0.434 | 0.418 | 0.521 | 0.544 | 0.582 | 0.469 | 20.85 |
| 57) | T | 1,3-Dichloropr... | 0.514 | 0.584 | 0.555 | 0.618 | 0.602 | 0.627 | 0.583 | 7.31 |
| 58) | T | 2-Chloroethyl ... | 0.163 | 0.205 | 0.185 | 0.226 | 0.241 | 0.258 | 0.213 | 16.67 |
| 59) | T | 2-Hexanone | 0.261 | 0.302 | 0.298 | 0.353 | 0.357 | 0.358 | 0.321 | 12.60 |
| 60) | T | Dibromochlorom... | 0.386 | 0.420 | 0.368 | 0.412 | 0.414 | 0.430 | 0.405 | 5.79 |
| 61) | T | 1,2-Dibromoethane | 0.334 | 0.321 | 0.309 | 0.356 | 0.334 | 0.349 | 0.334 | 5.16 |
| 62) | S | 4-Bromofluorob... | | 0.417 | 0.357 | 0.410 | 0.449 | 0.475 | 0.422 | 10.57 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.323 | 0.346 | 0.338 | 0.365 | 0.322 | 0.351 | 0.341 | 4.87 |
| 65) | PM | Chlorobenzene | 1.051 | 1.110 | 1.047 | 1.154 | 1.076 | 1.133 | 1.095 | 4.03 |
| 66) | T | 1,1,1,2-Tetrac... | 0.425 | 0.412 | 0.371 | 0.408 | 0.392 | 0.404 | 0.402 | 4.65 |
| 67) | C | Ethyl Benzene | 1.430 | 1.709 | 1.685 | 1.940 | 1.867 | 2.072 | 1.784 | 12.67# |
| 68) | T | m/p-Xylenes | 0.492 | 0.616 | 0.615 | 0.750 | 0.707 | 0.775 | 0.659 | 16.01 |
| 69) | T | o-Xylene | 0.482 | 0.582 | 0.584 | 0.713 | 0.681 | 0.738 | 0.630 | 15.47 |
| 70) | T | Styrene | 0.742 | 0.929 | 0.956 | 1.186 | 1.173 | 1.271 | 1.043 | 19.21 |
| 71) | P | Bromoform | 0.235 | 0.284 | 0.273 | 0.312 | 0.311 | 0.311 | 0.288 | 10.61 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 2.766 | 3.157 | 3.272 | 3.681 | 3.448 | 3.922 | 3.375 | 12.06 |
| 74) | T | N-amyl acetate | 1.364 | 1.394 | 1.405 | 1.642 | 1.622 | 1.673 | 1.517 | 9.43 |
| 75) | P | 1,1,2,2-Tetrac... | 1.314 | 1.228 | 1.157 | 1.187 | 1.145 | 1.121 | 1.192 | 5.89 |
| 76) | T | 1,2,3-Trichlor... | 1.104 | 0.965 | 0.957 | 1.118 | 0.893 | 1.061 | 1.016 | 8.96 |
| 77) | T | Bromobenzene | 0.871 | 0.880 | 0.857 | 0.906 | 0.858 | 0.919 | 0.882 | 2.90 |
| 78) | T | n-propylbenzene | 3.227 | 3.605 | 3.846 | 4.400 | 4.154 | 4.738 | 3.995 | 13.74 |
| 79) | T | 2-Chlorotoluene | 2.252 | 2.533 | 2.571 | 2.761 | 2.585 | 2.812 | 2.586 | 7.67 |
| 80) | T | 1,3,5-Trimethy... | 2.160 | 2.529 | 2.695 | 3.140 | 2.940 | 3.260 | 2.787 | 14.69 |
| 81) | T | trans-1,4-Dich... | | 0.335 | 0.347 | 0.386 | 0.390 | 0.419 | 0.376 | 9.04 |
| 82) | T | 4-Chlorotoluene | 2.144 | 2.536 | 2.512 | 2.820 | 2.588 | 2.847 | 2.574 | 9.91 |
| 83) | T | tert-Butylbenzene | 1.885 | 2.189 | 2.236 | 2.570 | 2.439 | 2.726 | 2.341 | 12.85 |
| 84) | T | 1,2,4-Trimethy... | 1.888 | 2.542 | 2.710 | 3.190 | 3.016 | 3.323 | 2.778 | 18.89 |
| 85) | T | sec-Butylbenzene | 2.318 | 3.026 | 3.147 | 3.643 | 3.421 | 3.912 | 3.244 | 17.17 |
| 86) | T | p-Isopropyltol... | 1.777 | 2.368 | 2.541 | 2.942 | 2.872 | 3.286 | 2.631 | 20.04 |
| 87) | T | 1,3-Dichlorobe... | 1.526 | 1.656 | 1.574 | 1.701 | 1.565 | 1.720 | 1.624 | 4.91 |
| 88) | T | 1,4-Dichlorobe... | 1.767 | 1.743 | 1.607 | 1.713 | 1.562 | 1.706 | 1.683 | 4.78 |
| 89) | T | n-Butylbenzene | 1.772 | 2.176 | 2.168 | 2.485 | 2.483 | 2.881 | 2.327 | 16.22 |
| 90) | T | Hexachloroethane | 0.681 | 0.616 | 0.574 | 0.613 | 0.577 | 0.645 | 0.618 | 6.59 |
| 91) | T | 1,2-Dichlorobe... | 1.766 | 1.600 | 1.532 | 1.654 | 1.555 | 1.611 | 1.620 | 5.15 |
| 92) | T | 1,2-Dibromo-3-... | 0.202 | 0.228 | 0.212 | 0.224 | 0.222 | 0.218 | 0.218 | 4.31 |
| 93) | T | 1,2,4-Trichlor... | 0.658 | 0.717 | 0.704 | 0.799 | 0.781 | 0.858 | 0.753 | 9.69 |
| 94) | T | Hexachlorobuta... | 0.413 | 0.441 | 0.395 | 0.396 | 0.367 | 0.386 | 0.400 | 6.31 |
| 95) | T | Naphthalene | 2.115 | 1.987 | 1.958 | 2.348 | 2.482 | 2.588 | 2.246 | 11.79 |
| 96) | T | 1,2,3-Trichlor... | 0.750 | 0.693 | 0.732 | 0.792 | 0.786 | 0.817 | 0.762 | 5.96 |

(#) = Out of Range




R = 3.594e-001 A*A + 2.563e+000 A - 1.210e-003
Coef of Det (r^2) = 0.999599  Curve Fit: Quadratic
Method Name:  Z:\voasrv\HPCHEM1\MSVOA N\methods\82N011425W.M
Calibration Table Last Updated: Wed Jan 15 02:16:08 2025




Response = 5.877e-001 * Amt - 2.270e-002
Coef of Det (r^2) = 0.998904  Curve Fit: Linear
Method Name:  Z:\voasrv\HPCHEM1\MSVOA N\methods\82N011425W.M
Calibration Table Last Updated: Wed Jan 15 02:16:08 2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085438.D
Acq On : 14 Jan 2025 14:56
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 202613 | 50.000 ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.094 | 114 | 329363 | 50.000 ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 298938 | 50.000 ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 146196 | 50.000 ug/l | 0.00 |
| System Monitoring Compounds | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.571 | 65 | 313645 | 95.899 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 191.800%# | | |
| 35) Dibromofluoromethane | 8.159 | 113 | 236159 | 103.353 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 206.700%# | | |
| 50) Toluene-d8 | 10.565 | 98 | 881956 | 108.636 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 217.280%# | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 313161 | 112.765 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 225.520%# | | |
| Target Compounds | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 269023 | 98.065 ug/l | 99 |
| 3) Chloromethane | 2.359 | 50 | 275415 | 92.724 ug/l | 98 |
| 4) Vinyl Chloride | 2.512 | 62 | 282361 | 94.576 ug/l | 99 |
| 5) Bromomethane | 2.942 | 94 | 158888 | 88.105 ug/l | 98 |
| 6) Chloroethane | 3.112 | 64 | 176111 | 93.043 ug/l | 99 |
| 7) Trichlorofluoromethane | 3.494 | 101 | 423967 | 97.870 ug/l | 100 |
| 8) Diethyl Ether | 3.953 | 74 | 146889 | 98.154 ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 239104 | 97.997 ug/l | 99 |
| 10) Methyl Iodide | 4.589 | 142 | 292983 | 104.856 ug/l | 95 |
| 11) Tert butyl alcohol | 5.512 | 59 | 173044 | 462.061 ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.336 | 96 | 222117 | 102.146 ug/l | 99 |
| 13) Acrolein | 4.171 | 56 | 275350 | 538.600 ug/l | 99 |
| 14) Allyl chloride | 5.018 | 41 | 349717 | 99.111 ug/l | 98 |
| 15) Acrylonitrile | 5.712 | 53 | 585370 | 492.095 ug/l | 99 |
| 16) Acetone | 4.418 | 43 | 483221 | 457.268 ug/l | 96 |
| 17) Carbon Disulfide | 4.712 | 76 | 630294 | 94.140 ug/l | 100 |
| 18) Methyl Acetate | 5.012 | 43 | 304226 | 94.674 ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.788 | 73 | 743008 | 105.230 ug/l | 100 |
| 20) Methylene Chloride | 5.271 | 84 | 254912 | 97.440 ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.783 | 96 | 231503 | 99.618 ug/l | 97 |
| 22) Diisopropyl ether | 6.665 | 45 | 820871 | 104.812 ug/l | 99 |
| 23) Vinyl Acetate | 6.594 | 43 | 3029568 | 550.850 ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.565 | 63 | 471831 | 98.803 ug/l | 99 |
| 25) 2-Butanone | 7.477 | 43 | 764979 | 491.912 ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.482 | 77 | 388140 | 100.530 ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.482 | 96 | 280197 | 102.367 ug/l | 99 |
| 28) Bromochloromethane | 7.806 | 49 | 214796 | 96.679 ug/l | 100 |
| 29) Tetrahydrofuran | 7.830 | 42 | 503459 | 510.635 ug/l | 99 |
| 30) Chloroform | 7.959 | 83 | 484941 | 98.253 ug/l | 100 |
| 31) Cyclohexane | 8.253 | 56 | 398641 | 96.041 ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 426782 | 98.578 ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.365 | 75 | 342961 | 106.945 ug/l | 100 |
| 37) Ethyl Acetate | 7.553 | 43 | 326802 | 100.961 ug/l | 97 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 378390 | 103.065 ug/l | 97 |
| 39) Methylcyclohexane | 9.594 | 83 | 371734 | 123.354 ug/l | 99 |
| 40) Benzene | 8.600 | 78 | 1021393 | 106.001 ug/l | 100 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085438.D
Acq On : 14 Jan 2025 14:56
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.777 | 41 | 184326 | 109.454 ug/l | 96 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 374938 | 103.314 ug/l | 100 |
| 43) Isopropyl Acetate | 8.682 | 43 | 549969 | 106.035 ug/l | 100 |
| 44) Trichloroethene | 9.347 | 130 | 238296 | 106.242 ug/l | 96 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 256964 | 104.405 ug/l | 97 |
| 46) Dibromomethane | 9.706 | 93 | 180990 | 101.913 ug/l | 99 |
| 47) Bromodichloromethane | 9.882 | 83 | 388499 | 107.377 ug/l | 98 |
| 48) Methyl methacrylate | 9.676 | 41 | 267689 | 114.685 ug/l | 99 |
| 49) 1,4-Dioxane | 9.688 | 88 | 83879 | 2133.992 ug/l | 97 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 1643800 | 546.159 ug/l | 100 |
| 52) Toluene | 10.623 | 92 | 634743 | 113.689 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.829 | 75 | 391238 | 114.424 ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 10.306 | 75 | 410403 | 112.369 ug/l | 99 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 229522 | 103.879 ug/l | 98 |
| 56) Ethyl methacrylate | 10.870 | 69 | 383663 | 101.029 ug/l | 99 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 412886 | 107.469 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.153 | 63 | 848636 | 605.243 ug/l | 100 |
| 59) 2-Hexanone | 11.194 | 43 | 1178831 | 556.643 ug/l | 99 |
| 60) Dibromochloromethane | 11.353 | 129 | 283361 | 106.227 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 230104 | 104.623 ug/l | 98 |
| 64) Tetrachloroethene | 11.100 | 164 | 209870 | 102.980 ug/l | 98 |
| 65) Chlorobenzene | 11.888 | 112 | 677679 | 103.482 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 241593 | 100.517 ug/l | 99 |
| 67) Ethyl Benzene | 11.959 | 91 | 1239080 | 116.169 ug/l | 99 |
| 68) m/p-Xylenes | 12.070 | 106 | 927244 | 235.219 ug/l | 99 |
| 69) o-Xylene | 12.394 | 106 | 441279 | 117.135 ug/l | 100 |
| 70) Styrene | 12.406 | 104 | 760136 | 121.919 ug/l | 99 |
| 71) Bromoform | 12.576 | 173 | 186124 | 108.227 ug/l # | 99 |
| 73) Isopropylbenzene | 12.694 | 105 | 1146752 | 116.221 ug/l | 100 |
| 74) N-amyl acetate | 12.488 | 43 | 489217 | 110.308 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 327767 | 94.039 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 310115m | 104.530 ug/l | |
| 77) Bromobenzene | 12.976 | 156 | 268616 | 104.200 ug/l | 97 |
| 78) n-propylbenzene | 13.029 | 91 | 1385353 | 118.600 ug/l | 100 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 822258 | 108.767 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.170 | 105 | 953066 | 116.938 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 122508 | 111.544 ug/l | 87 |
| 82) 4-Chlorotoluene | 13.217 | 91 | 832317 | 110.574 ug/l | 99 |
| 83) tert-Butylbenzene | 13.435 | 119 | 797069 | 116.457 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.476 | 105 | 971729 | 119.625 ug/l | 100 |
| 85) sec-Butylbenzene | 13.611 | 105 | 1143885 | 120.587 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.723 | 119 | 960747 | 100.111 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 502960 | 105.943 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.811 | 146 | 498709 | 101.341 ug/l | 97 |
| 89) n-Butylbenzene | 14.053 | 91 | 842368 | 123.781 ug/l | 98 |
| 90) Hexachloroethane | 14.329 | 117 | 188541 | 104.405 ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 14.100 | 146 | 470919 | 99.445 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 63846 | 100.313 ug/l | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 250787 | 113.946 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 112899 | 96.619 ug/l | 99 |
| 95) Naphthalene | 15.635 | 128 | 756816 | 115.234 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 238860 | 107.256 ug/l | 100 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085438.D
Acq On : 14 Jan 2025 14:56
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

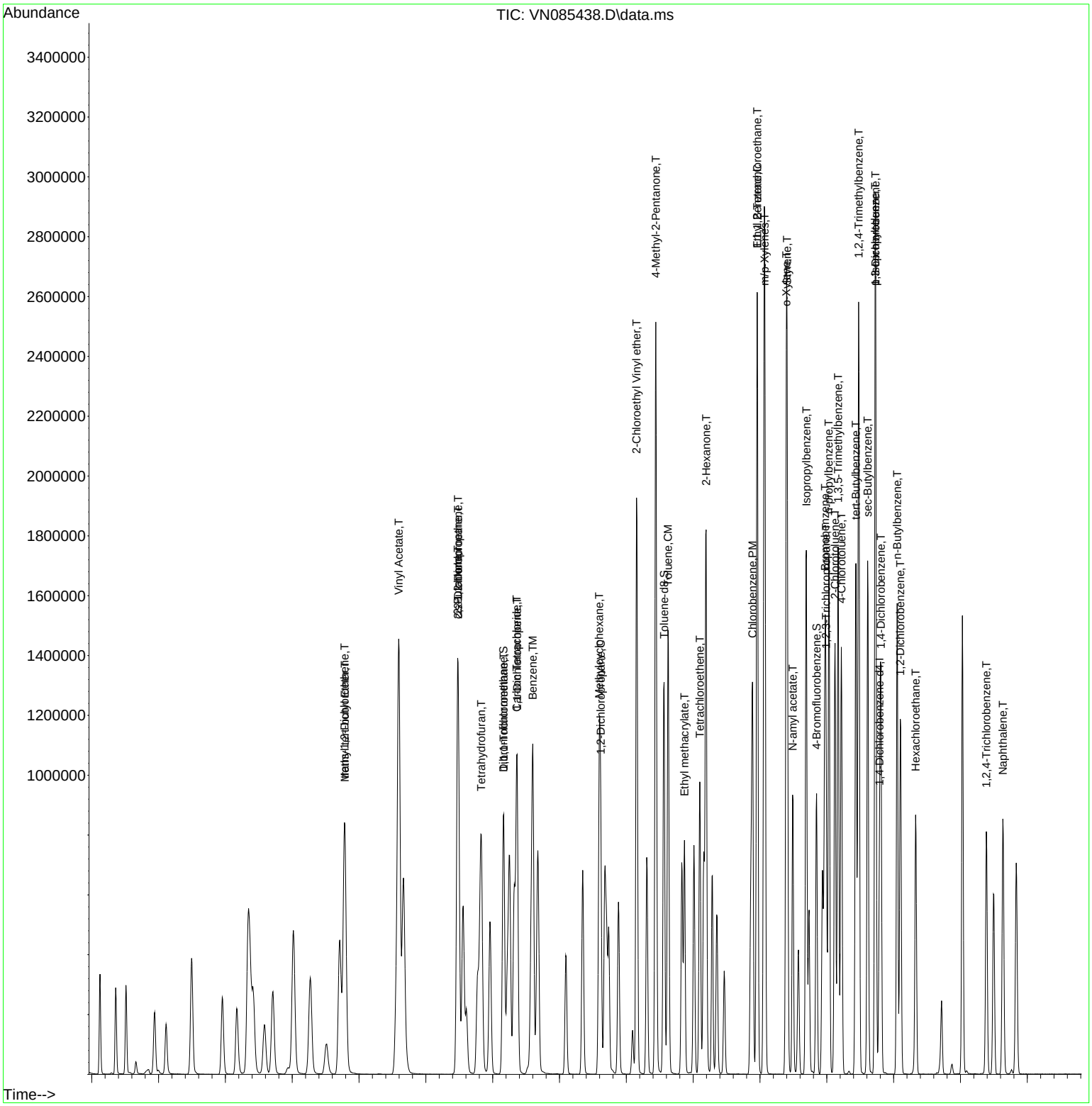
ICAL Form

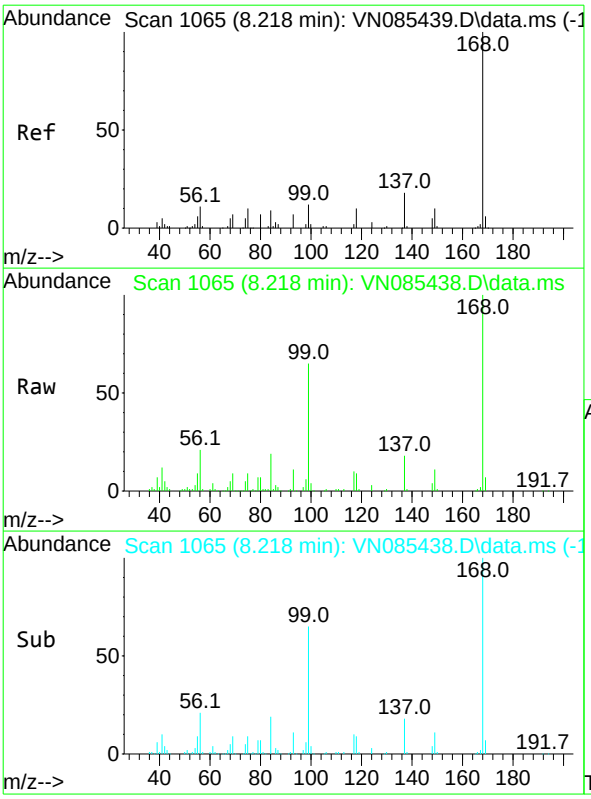
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085438.D
Acq On : 14 Jan 2025 14:56
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

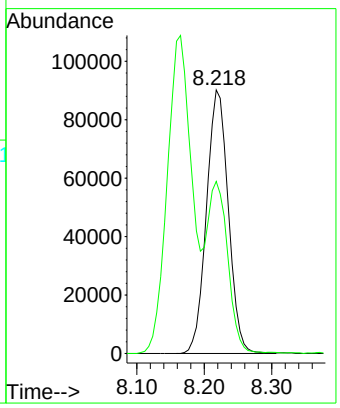
Tgt Ion:168 Resp: 202613

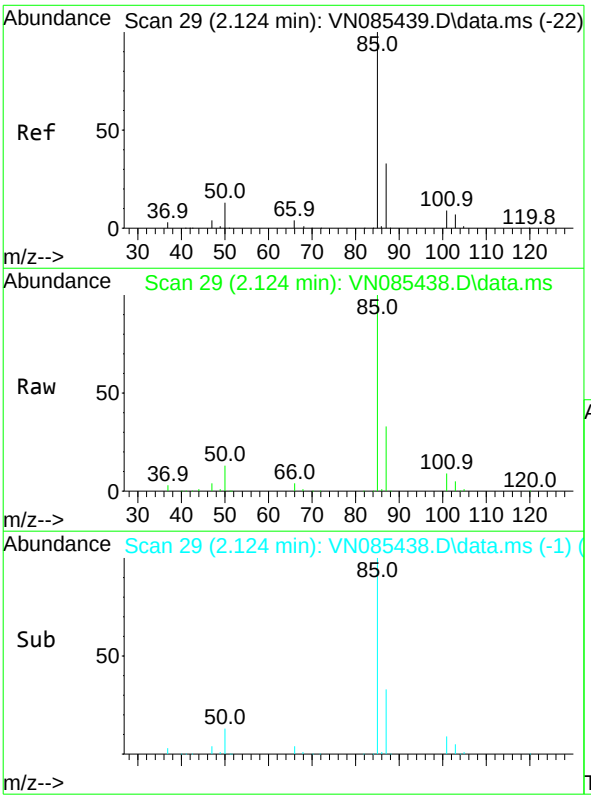
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 64.9 | 53.6 | 80.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

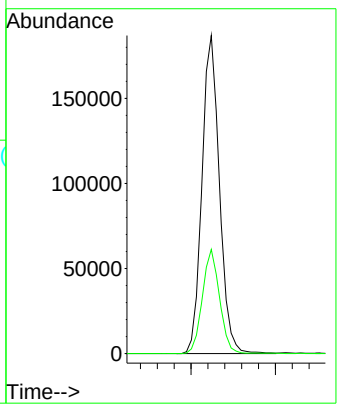


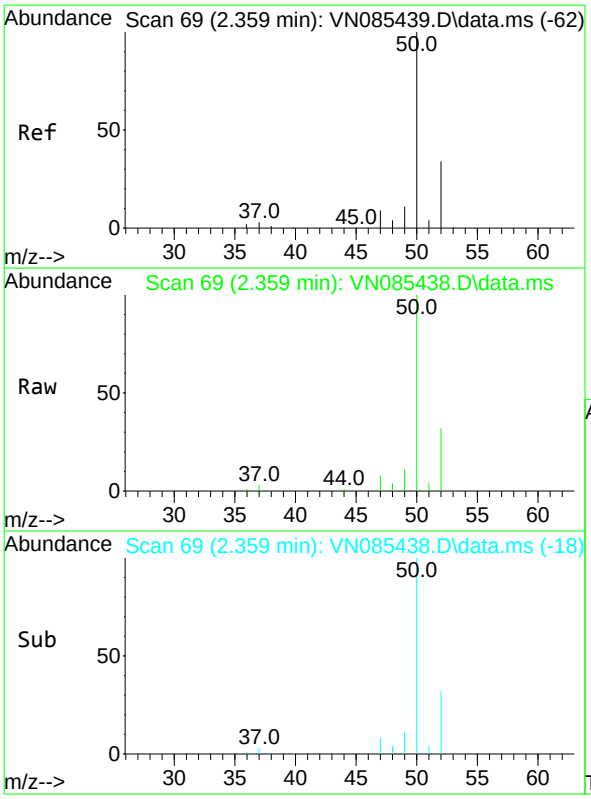




#2
Dichlorodifluoromethane
Concen: 98.065 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 85 Resp: 269023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.7 | 16.7 | 50.1 |






#3
Chloromethane
Concen: 92.724 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

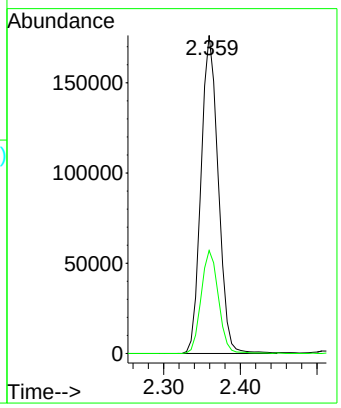
Tgt Ion: 50 Resp: 275415

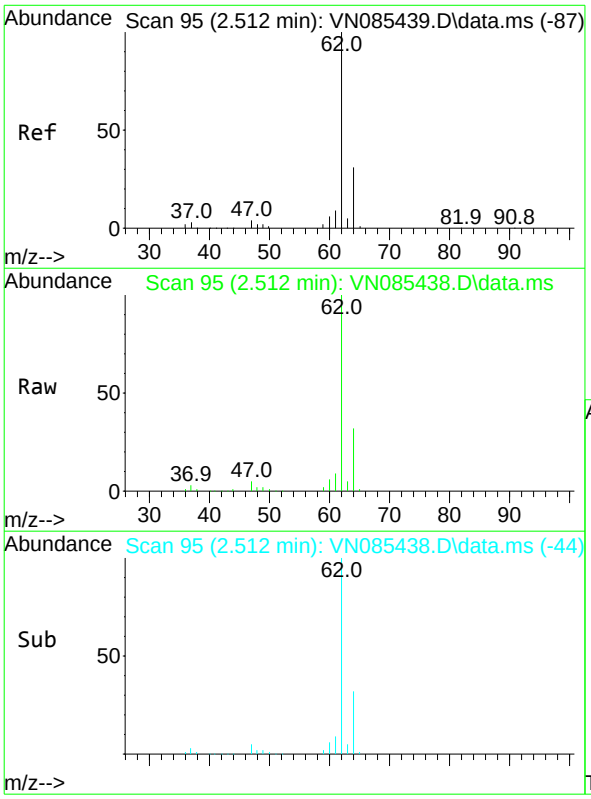
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.4 | 27.0 | 40.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

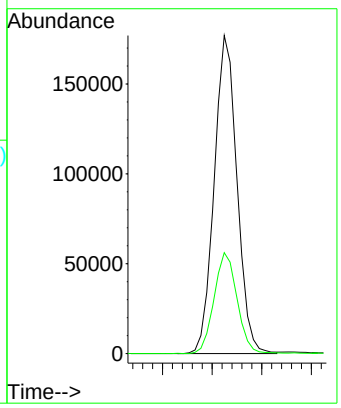


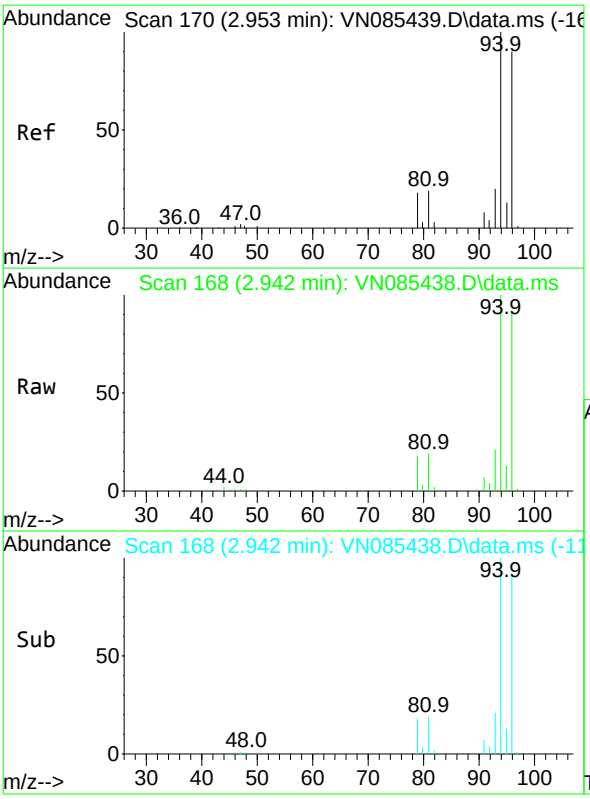




#4
Vinyl Chloride
Concen: 94.576 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 62 Resp: 282361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.6 | 24.8 | 37.2 |






#5
Bromomethane
Concen: 88.105 ug/l
RT: 2.942 min Scan# 16
Delta R.T. -0.012 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

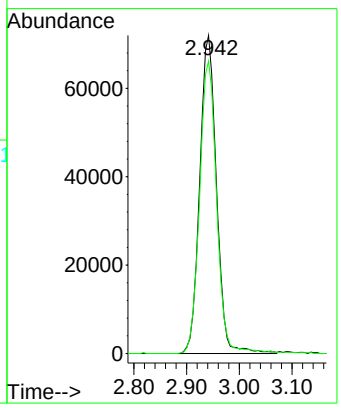
Tgt Ion: 94 Resp: 158888

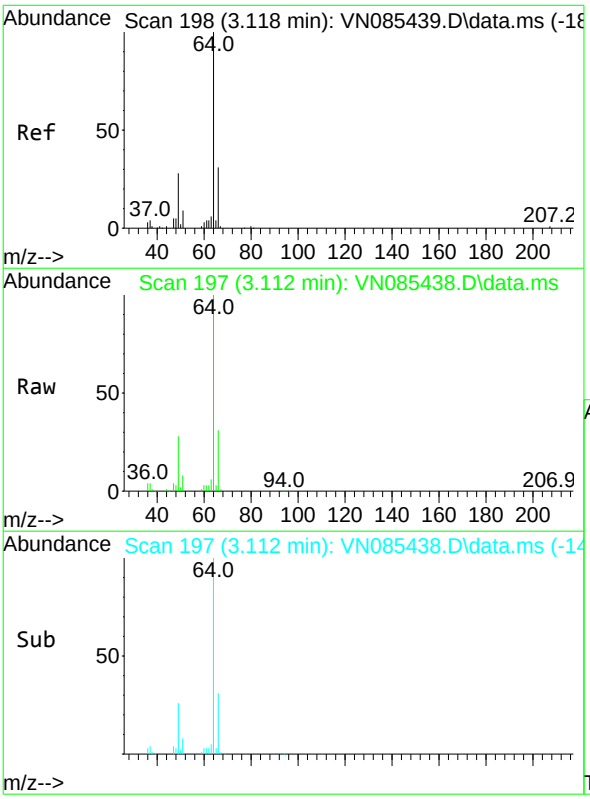
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.9 | 71.8 | 107.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

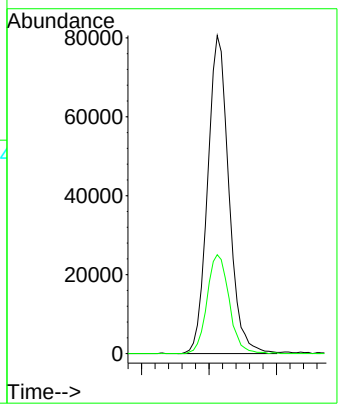


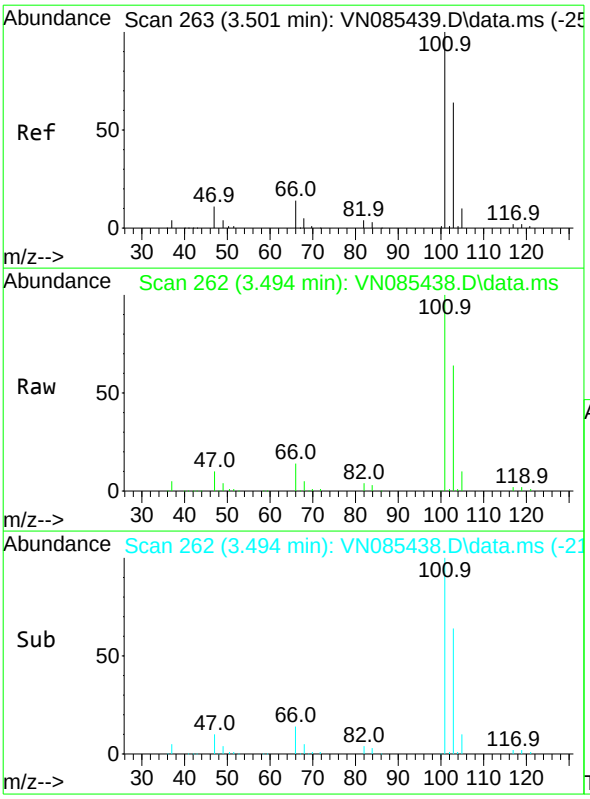




#6
Chloroethane
Concen: 93.043 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 64 Resp: 176111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.1 | 24.6 | 36.8 |






#7
Trichlorofluoromethane
Concen: 97.870 ug/l
RT: 3.494 min Scan# 26
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

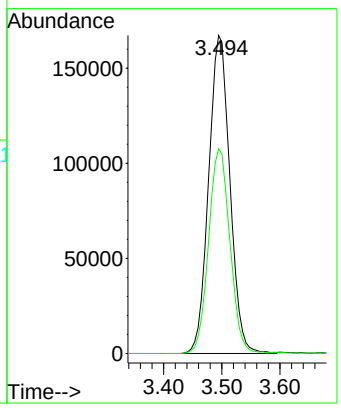
Tgt Ion:101 Resp: 423967

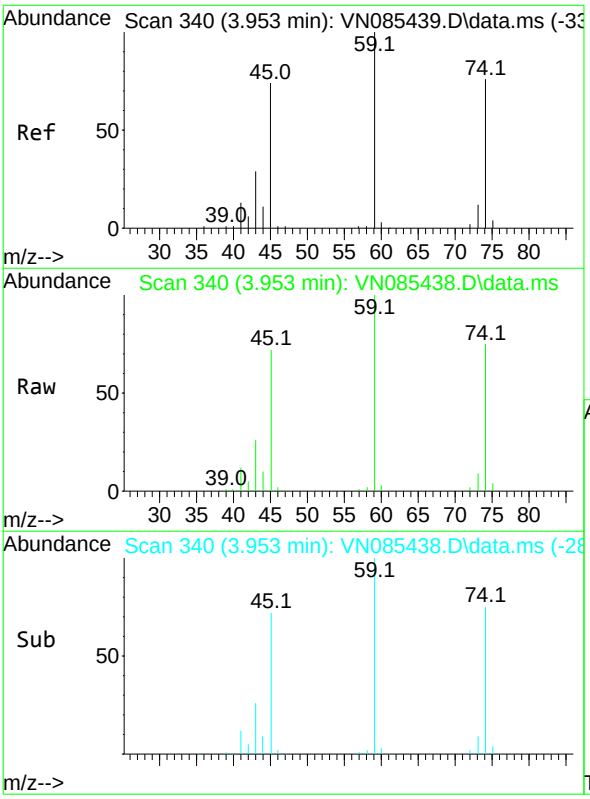
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.4 | 51.4 | 77.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

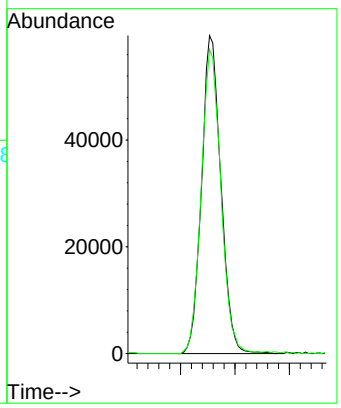


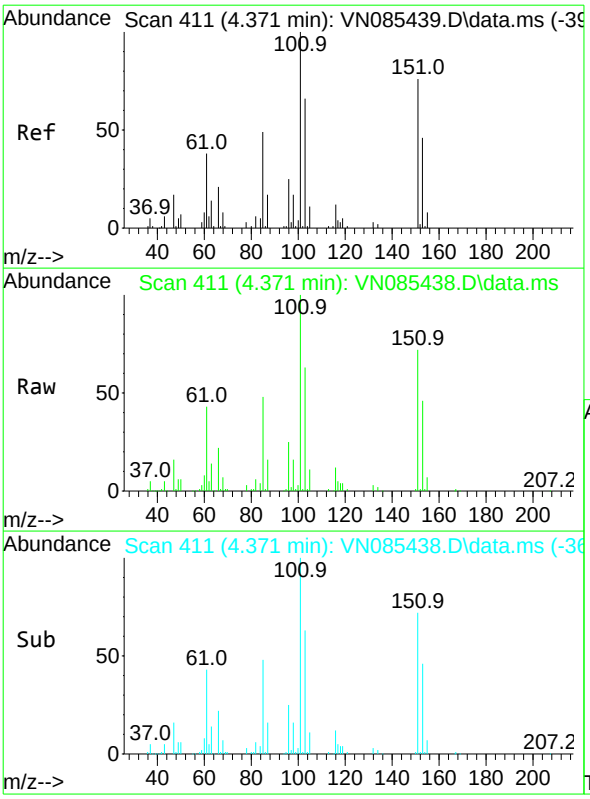




#8
Diethyl Ether
Concen: 98.154 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 74 Resp: 146889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 97.4 | 49.7 | 149.1 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 97.997 ug/l
RT: 4.371 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

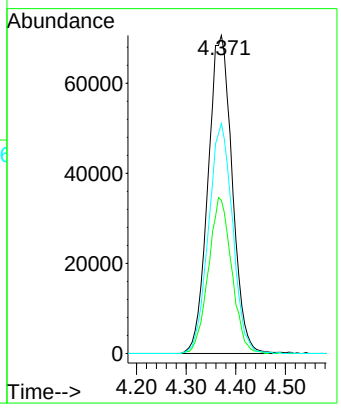
Tgt Ion:101 Resp: 239104

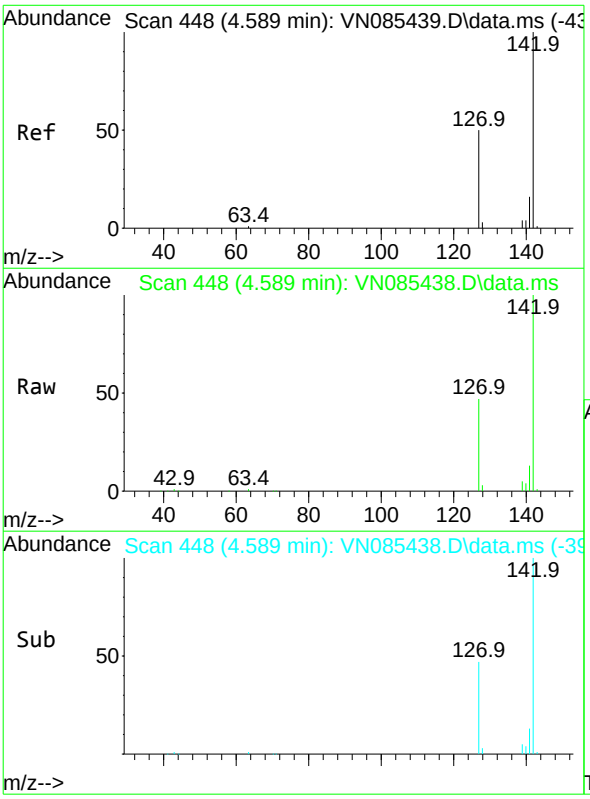
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.1 | 37.8 | 56.8 |
| 151 | 71.8 | 58.8 | 88.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

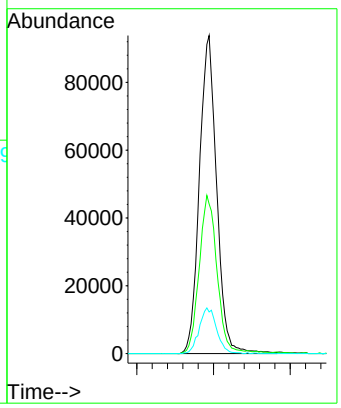


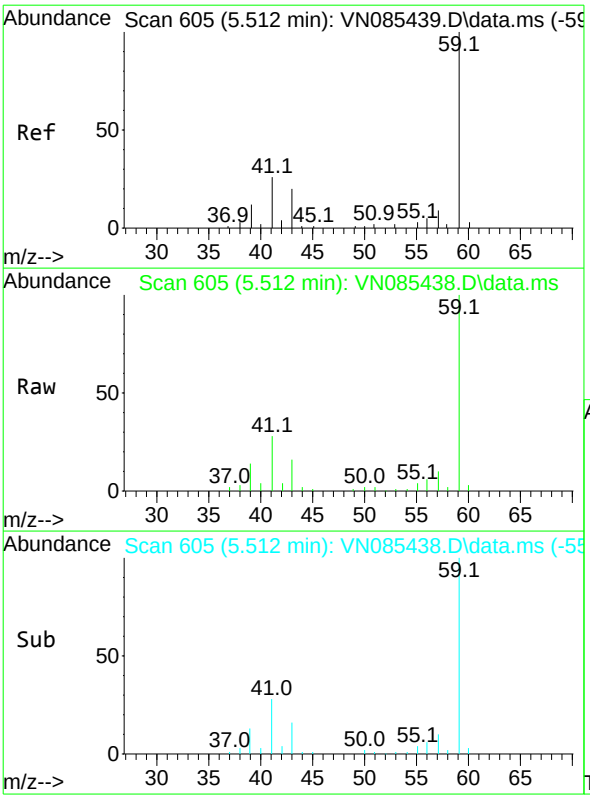




#10
Methyl Iodide
Concen: 104.856 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:142 Resp: 292983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 47.1 | 40.3 | 60.5 |
| 141 | 13.1 | 12.8 | 19.2 |






#11
Tert butyl alcohol
Concen: 462.061 ug/l
RT: 5.512 min Scan# 60
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

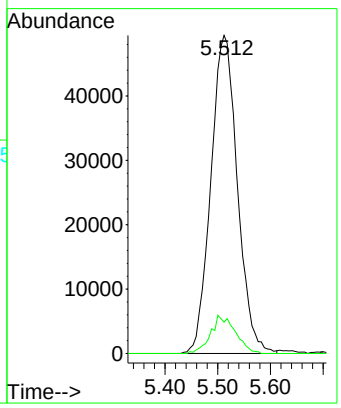
Tgt Ion: 59 Resp: 173044

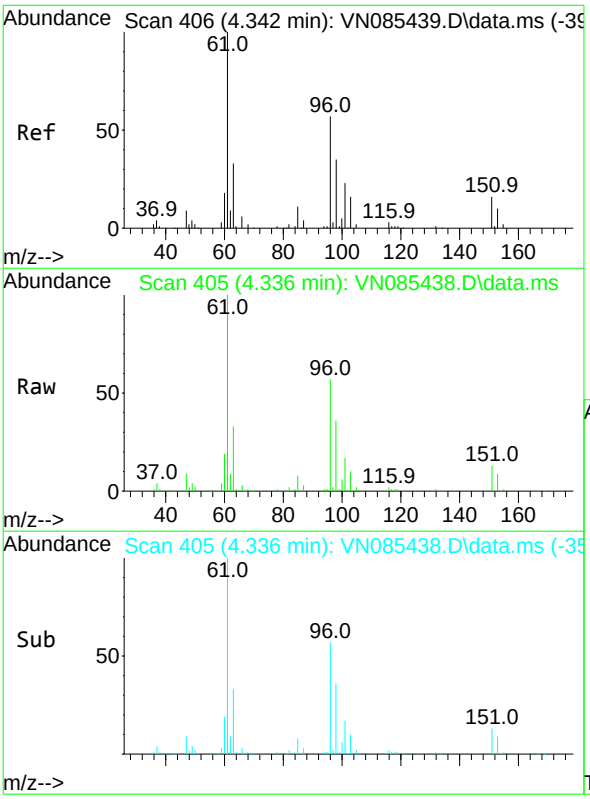
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.1 | 8.6 | 13.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

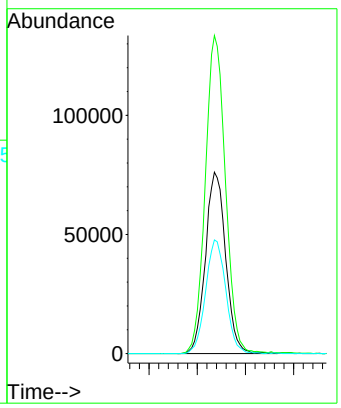


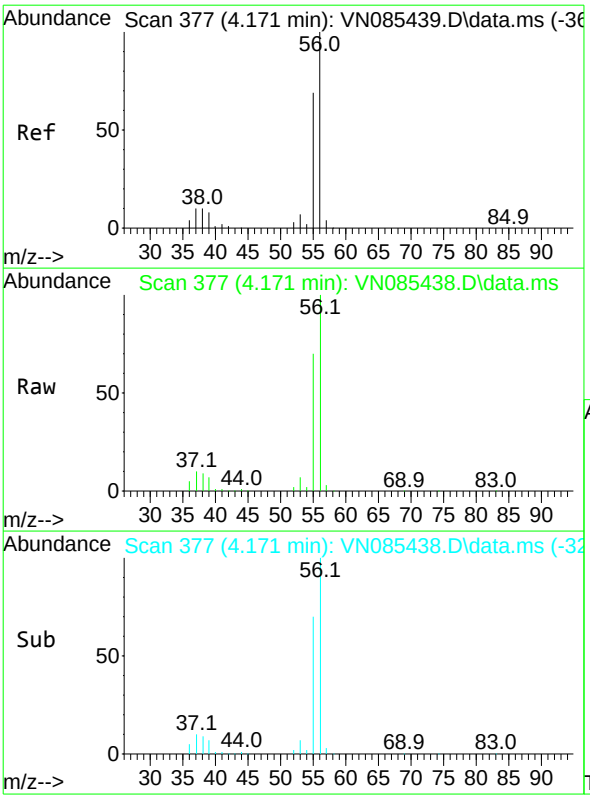




#12
1,1-Dichloroethene
Concen: 102.146 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 96 Resp: 222117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 175.3 | 141.0 | 211.4 |
| 98 | 62.7 | 49.0 | 73.6 |






#13
Acrolein
Concen: 538.600 ug/l
RT: 4.171 min Scan# 37
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

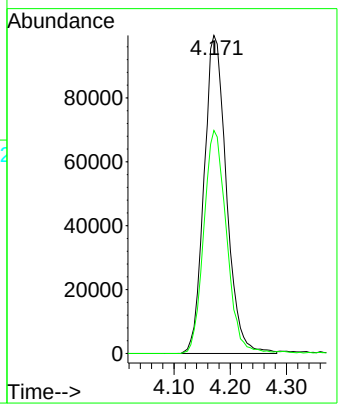
Tgt Ion: 56 Resp: 275350

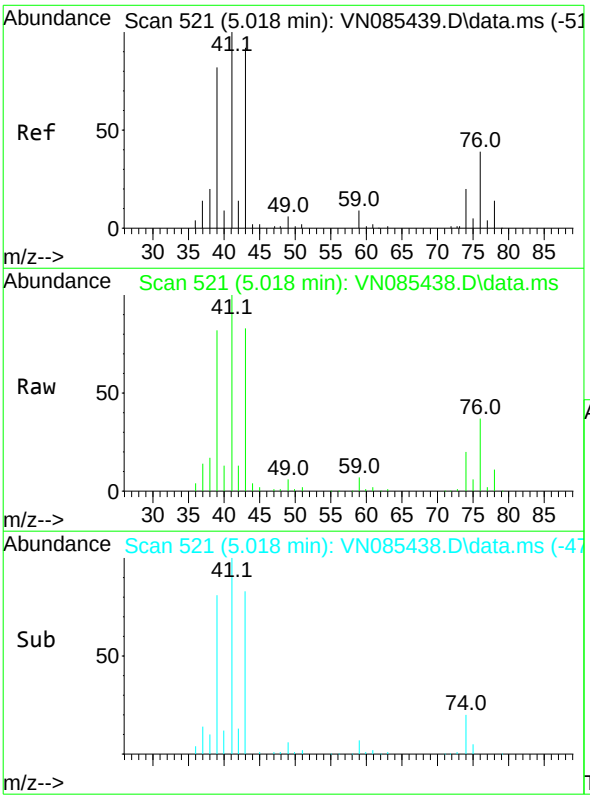
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.1 | 56.3 | 84.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

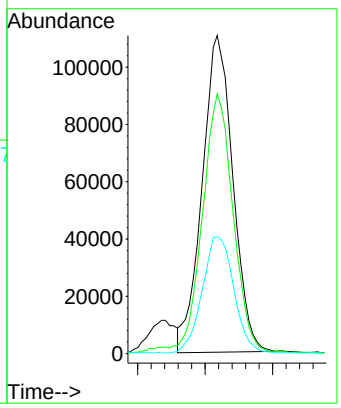


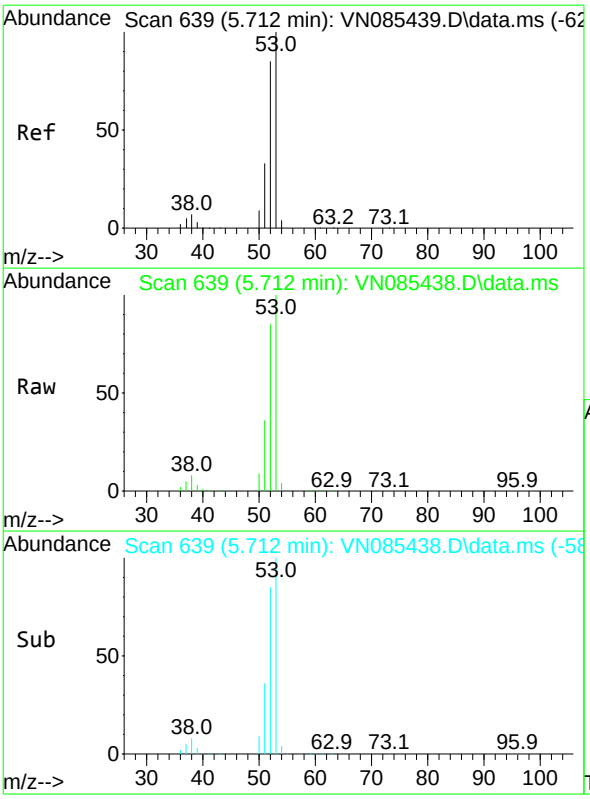




#14
Allyl chloride
Concen: 99.111 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 41 Resp: 349717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 83.3 | 64.4 | 96.6 |
| 76 | 37.9 | 30.5 | 45.7 |






#15
Acrylonitrile
Concen: 492.095 ug/l
RT: 5.712 min Scan# 63
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

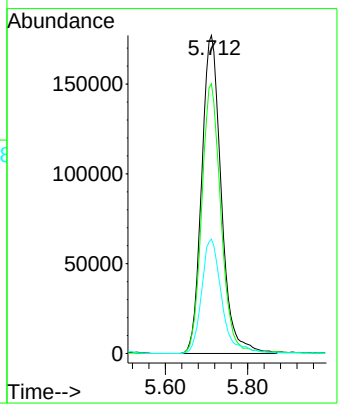
Tgt Ion: 53 Resp: 585370

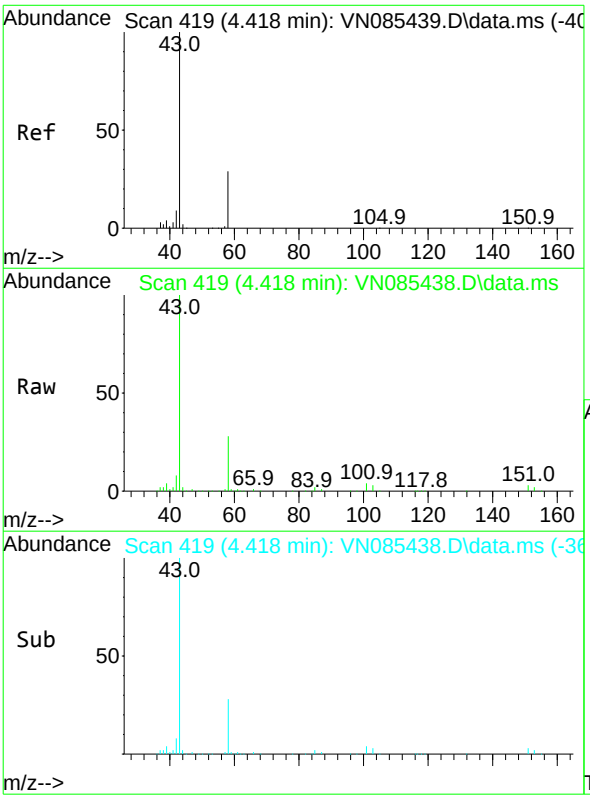
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.0 | 65.5 | 98.3 |
| 51 | 37.1 | 29.8 | 44.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

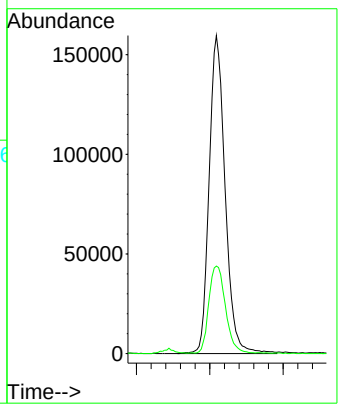


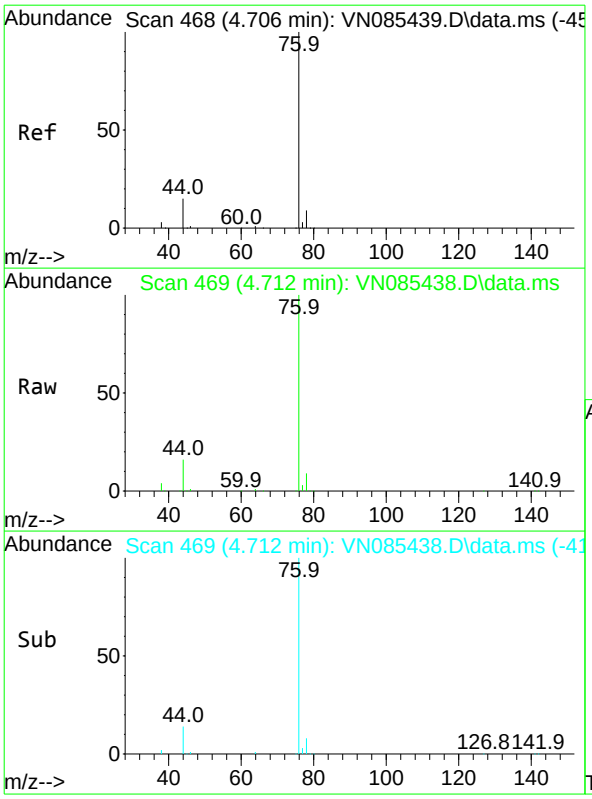




#16
Acetone
Concen: 457.268 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 483221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.3 | 23.8 | 35.6 |






#17
Carbon Disulfide
Concen: 94.140 ug/l
RT: 4.712 min Scan# 46
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

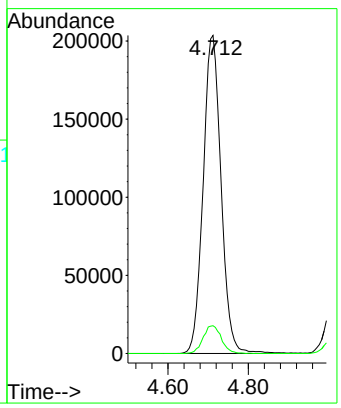
Tgt Ion: 76 Resp: 630294

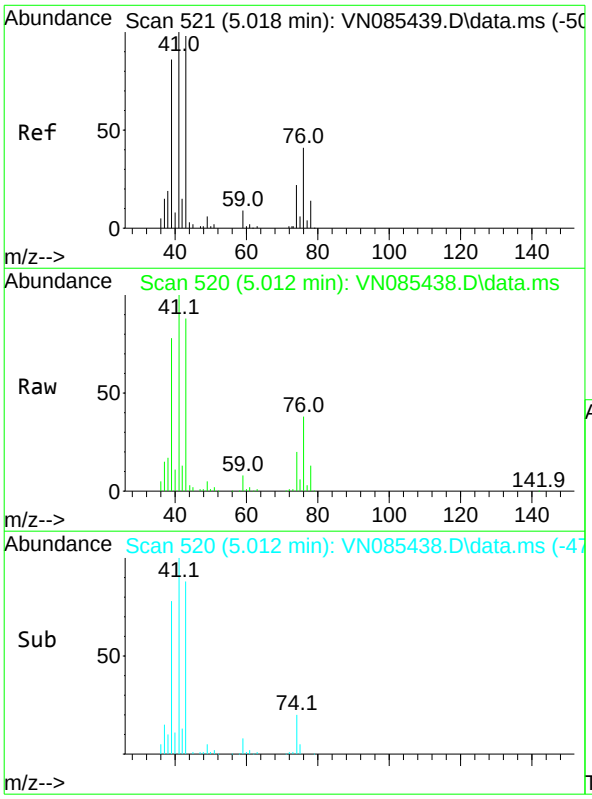
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.7 | 6.9 | 10.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

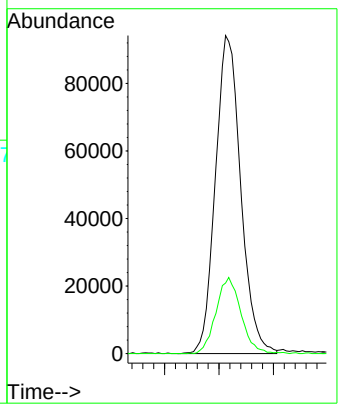


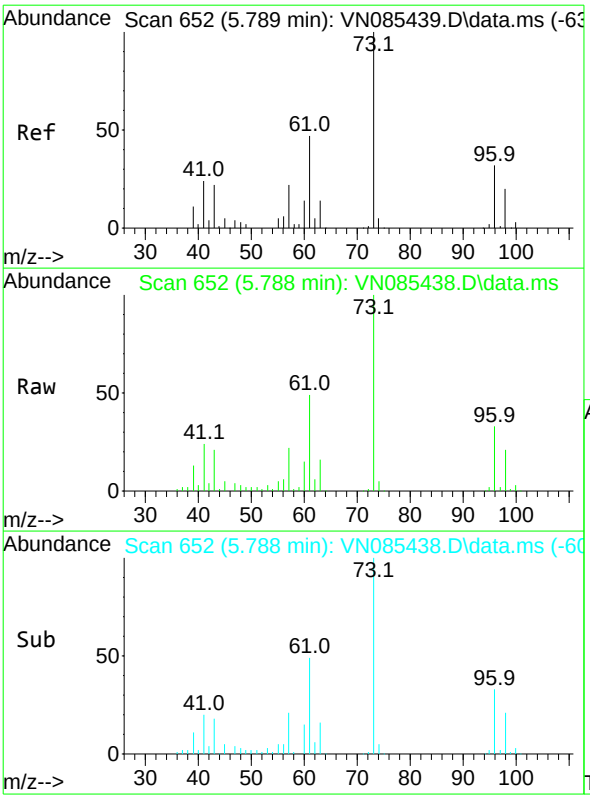




#18
Methyl Acetate
Concen: 94.674 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 304226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.6 | 18.6 | 28.0 |






#19
Methyl tert-butyl Ether
Concen: 105.230 ug/l
RT: 5.788 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

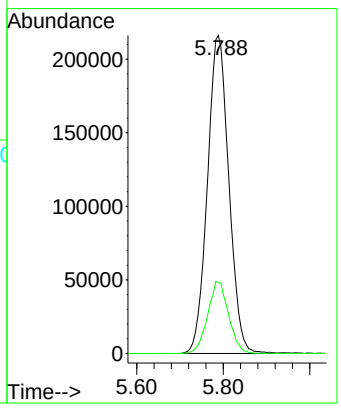
Tgt Ion: 73 Resp: 743008

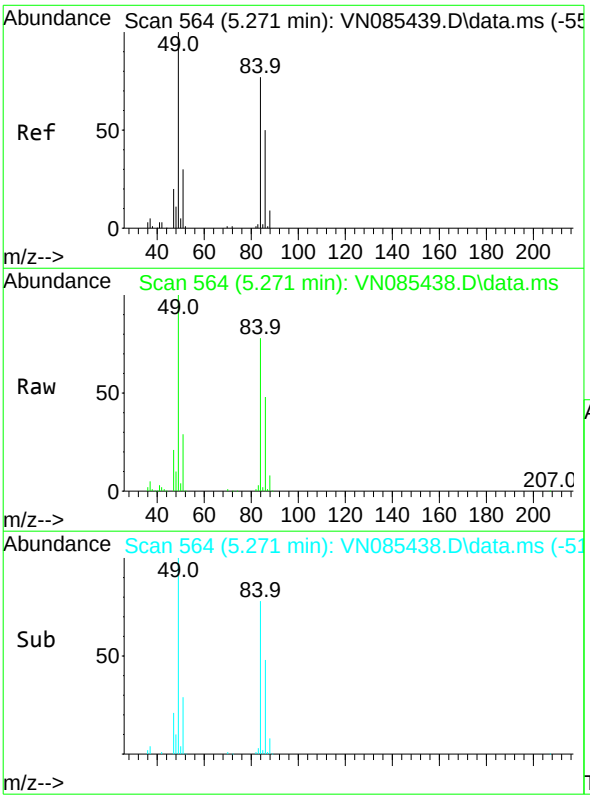
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.3 | 17.8 | 26.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

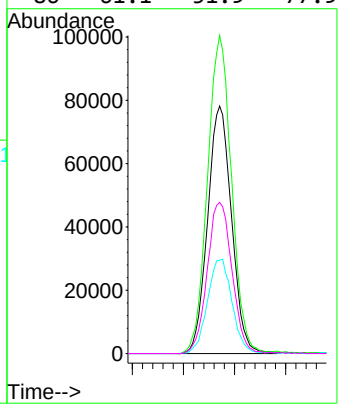


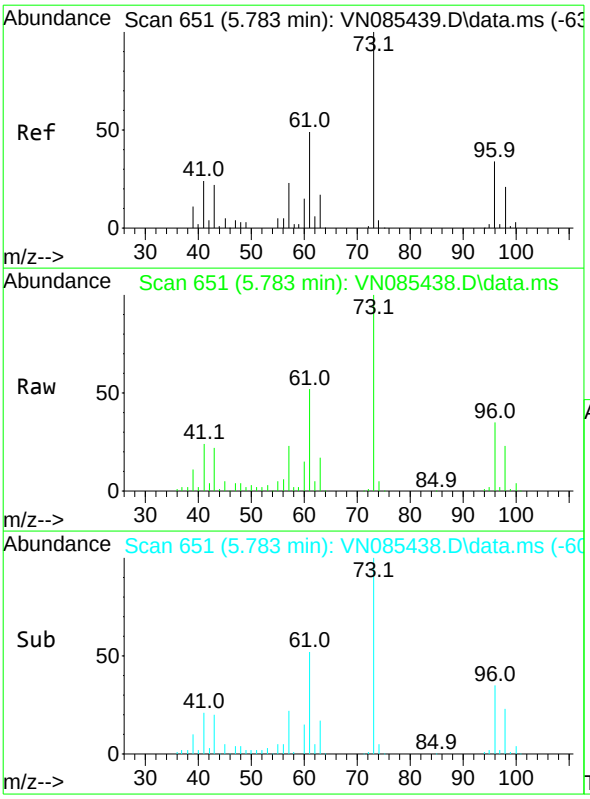




#20
Methylene Chloride
Concen: 97.440 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 84 Resp: 254912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 128.5 | 104.1 | 156.1 |
| 51 | 37.8 | 31.0 | 46.4 |
| 86 | 61.1 | 51.9 | 77.9 |






#21
trans-1,2-Dichloroethene
Concen: 99.618 ug/l
RT: 5.783 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

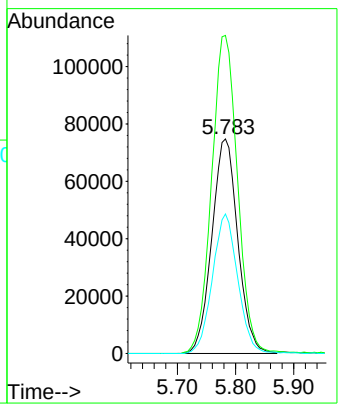
Tgt Ion: 96 Resp: 231503

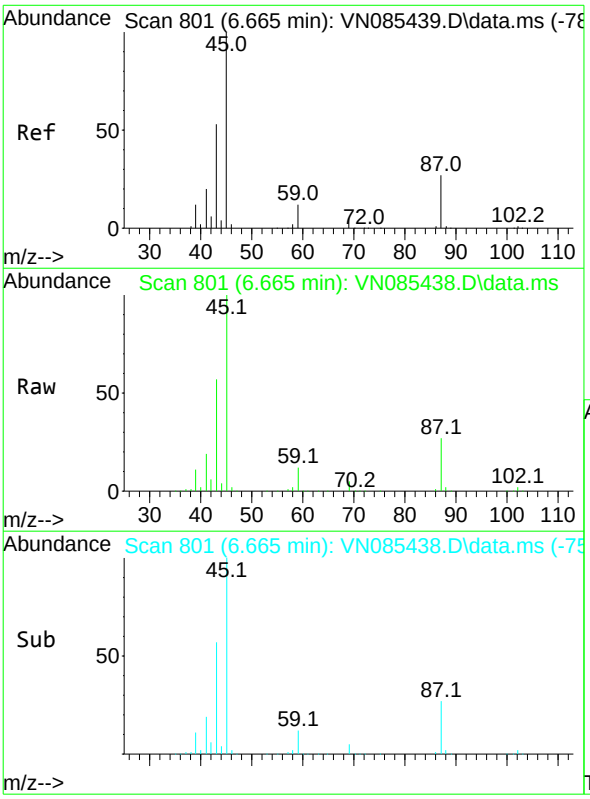
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 148.3 | 115.7 | 173.5 |
| 98 | 65.0 | 49.8 | 74.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

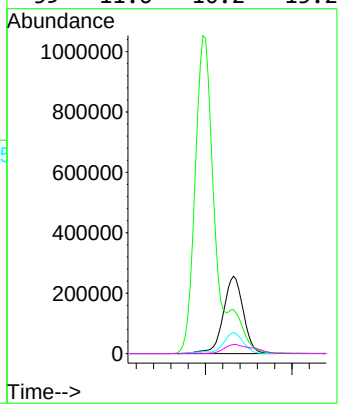


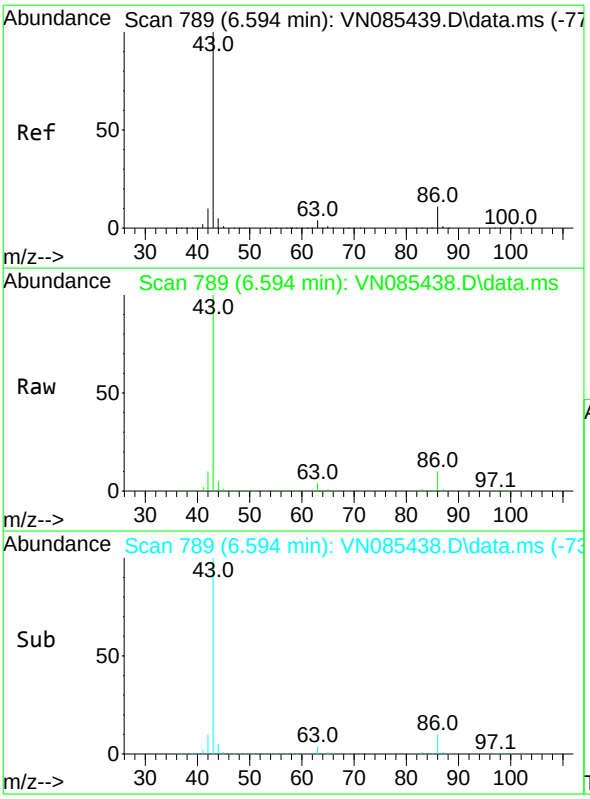




#22
Diisopropyl ether
Concen: 104.812 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 45 Resp: 820871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 55.7 | 45.0 | 67.6 |
| 87 | 27.2 | 21.8 | 32.8 |
| 59 | 11.6 | 10.2 | 15.2 |






#23
Vinyl Acetate
Concen: 550.850 ug/l
RT: 6.594 min Scan# 78
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

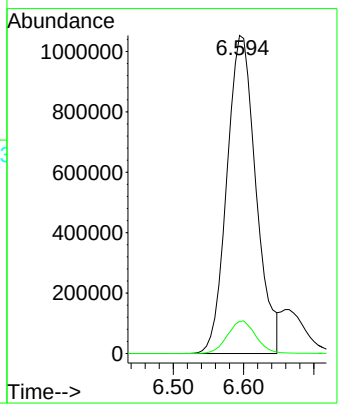
Tgt Ion: 43 Resp: 3029568

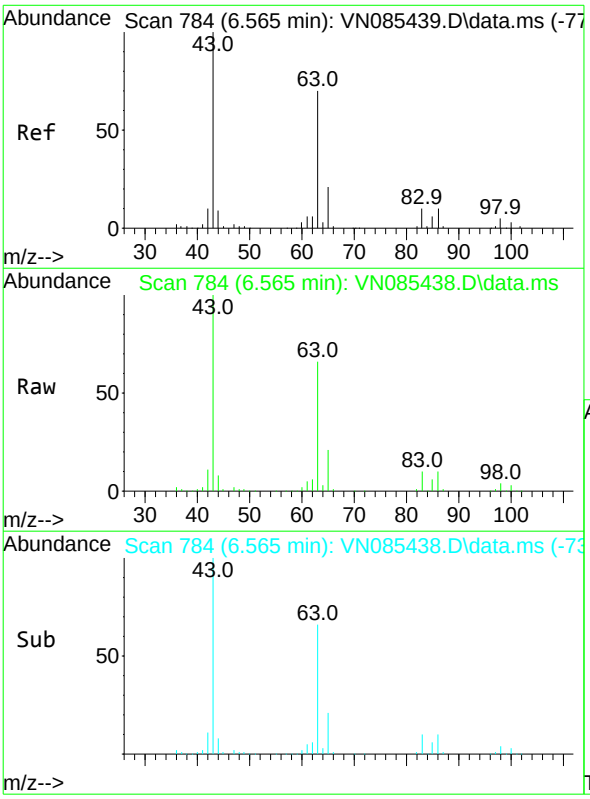
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.1 | 8.4 | 12.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

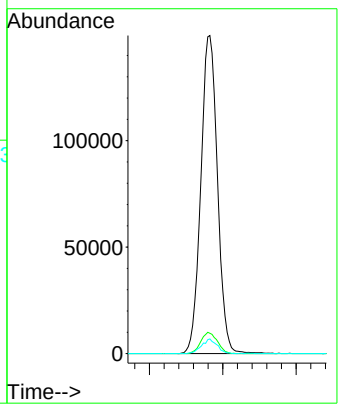


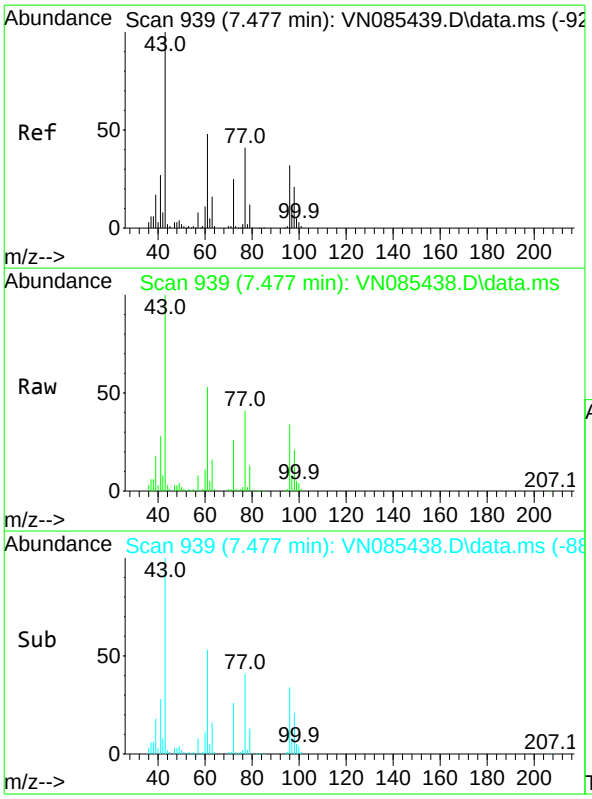




#24
1,1-Dichloroethane
Concen: 98.803 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 63 Resp: 471831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.4 | 3.3 | 9.8 |
| 100 | 4.6 | 2.0 | 6.0 |






#25
2-Butanone
Concen: 491.912 ug/l
RT: 7.477 min Scan# 93
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

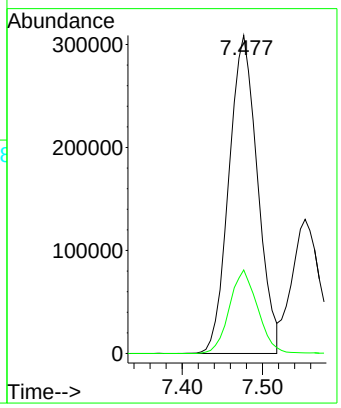
Tgt Ion: 43 Resp: 764979

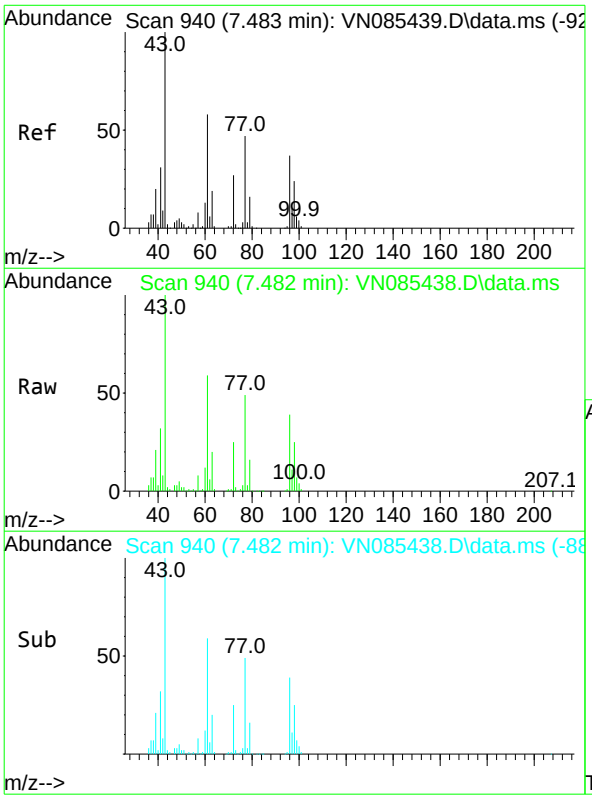
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.3 | 20.2 | 30.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

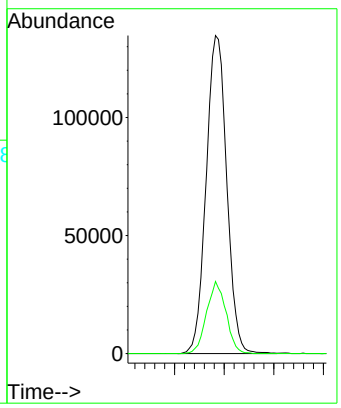


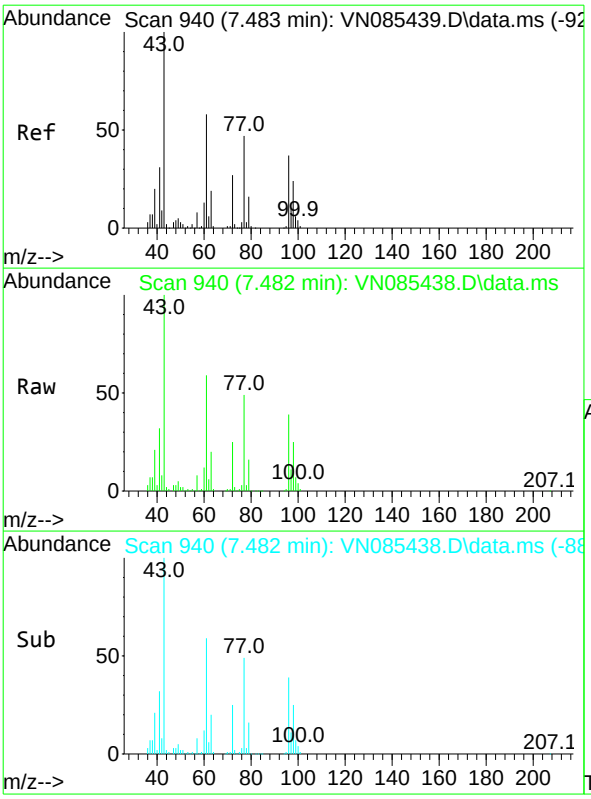




#26
2,2-Dichloropropane
Concen: 100.530 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 77 Resp: 388140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.4 | 10.7 | 32.1 |






#27
cis-1,2-Dichloroethene
Concen: 102.367 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

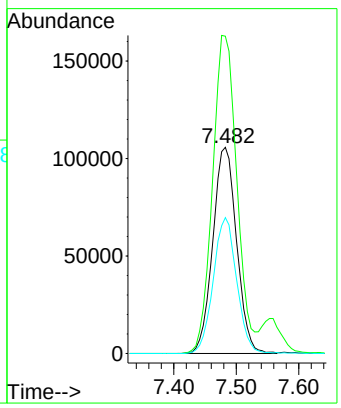
Tgt Ion: 96 Resp: 280197

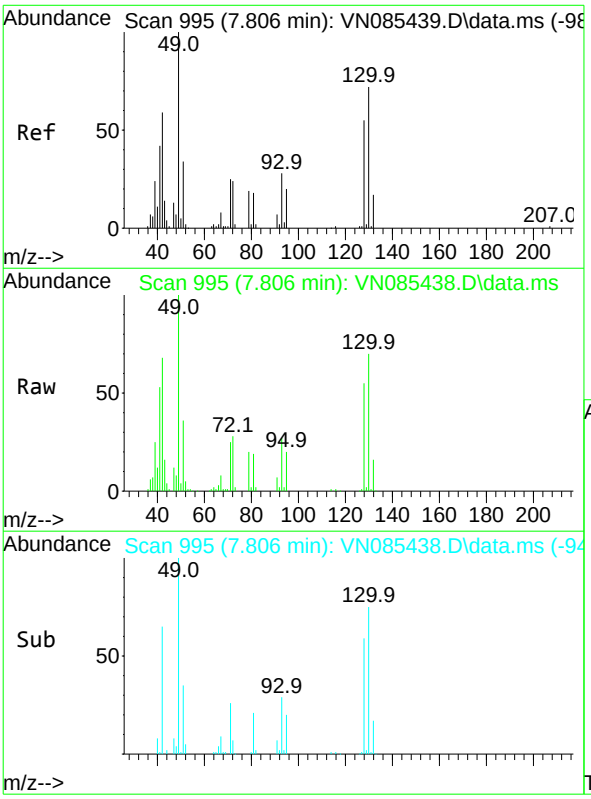
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 156.8 | 0.0 | 311.8 |
| 98 | 65.0 | 0.0 | 126.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

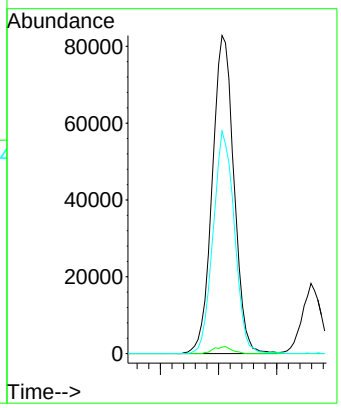


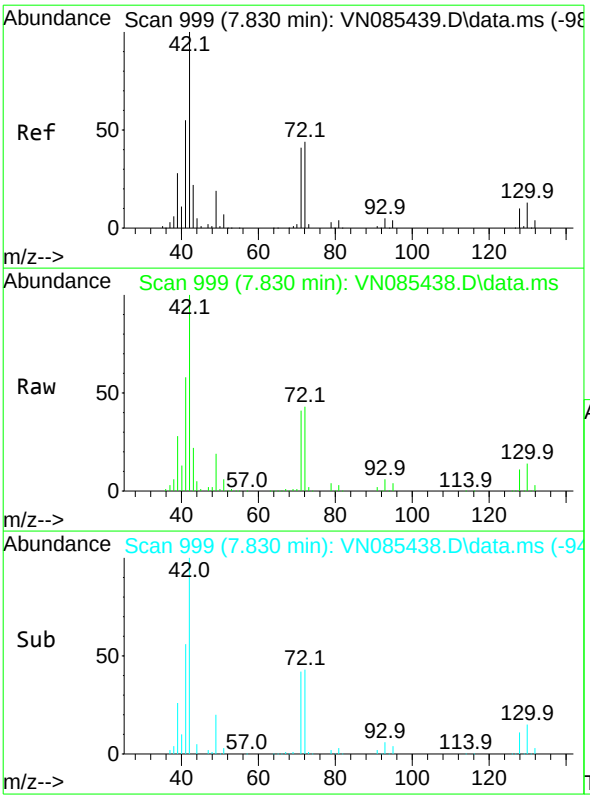




#28
Bromochloromethane
Concen: 96.679 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 49 Resp: 214796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 4.4 |
| 130 | 68.4 | 55.0 | 82.4 |






#29
Tetrahydrofuran
Concen: 510.635 ug/l
RT: 7.830 min Scan# 99
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

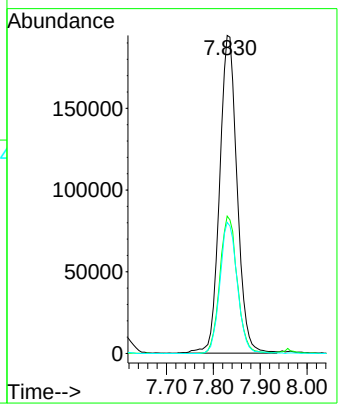
Tgt Ion: 42 Resp: 503459

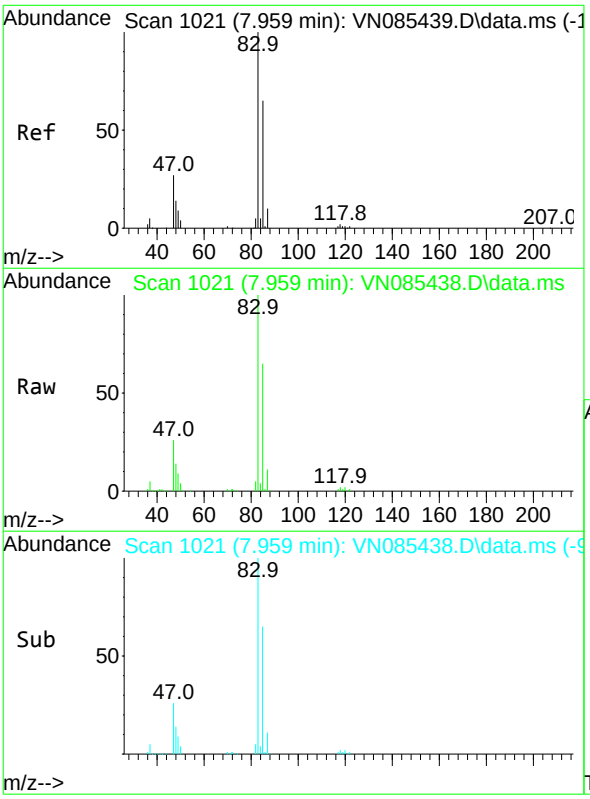
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 43.1 | 34.2 | 51.2 |
| 71 | 40.9 | 32.5 | 48.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

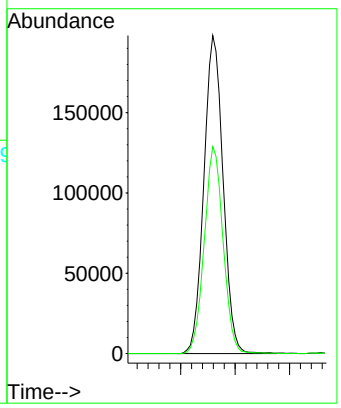


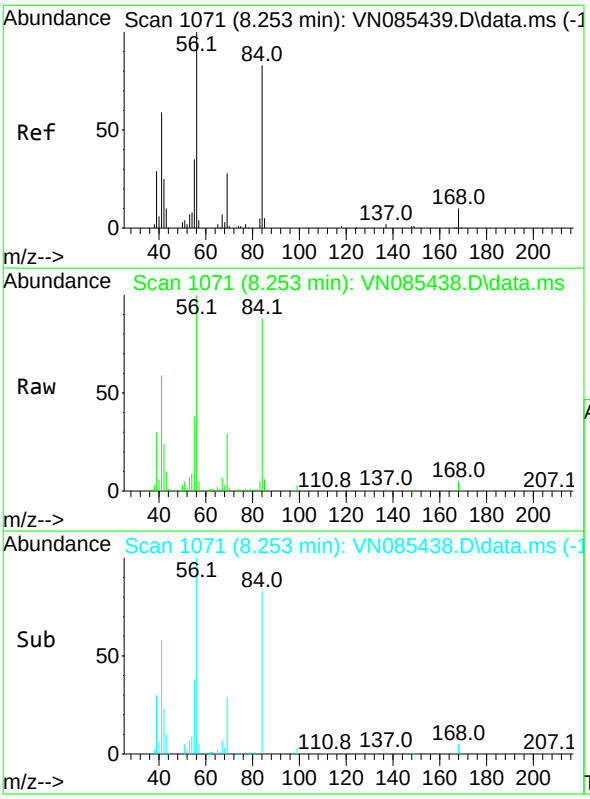




#30
Chloroform
Concen: 98.253 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 83 Resp: 484941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.0 | 51.8 | 77.6 |






#31
Cyclohexane
Concen: 96.041 ug/l
RT: 8.253 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

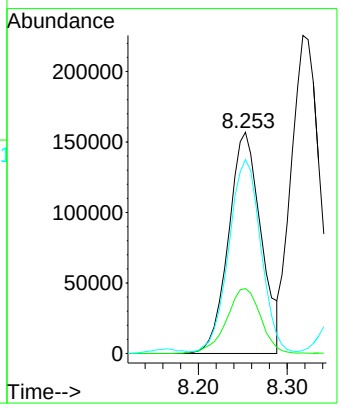
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

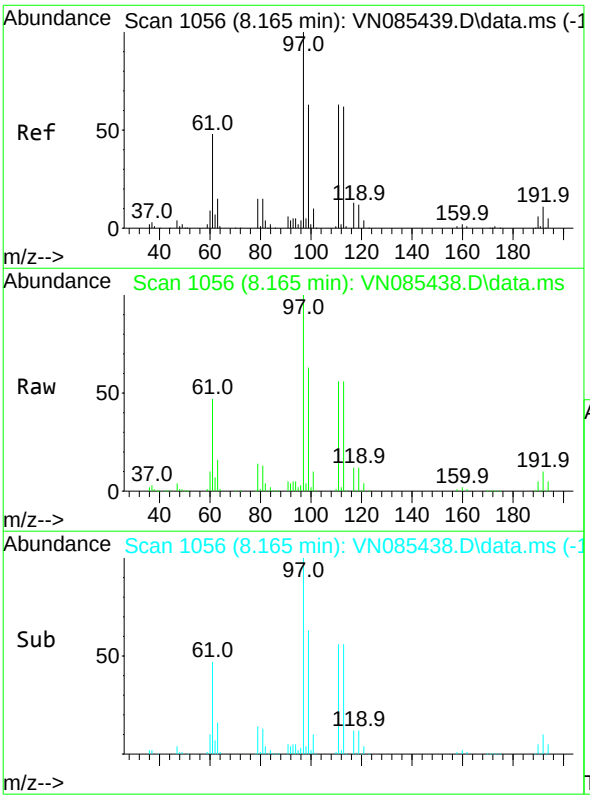
Tgt Ion: 56 Resp: 398641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 29.2 | 22.2 | 33.4 |
| 84 | 86.4 | 66.4 | 99.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

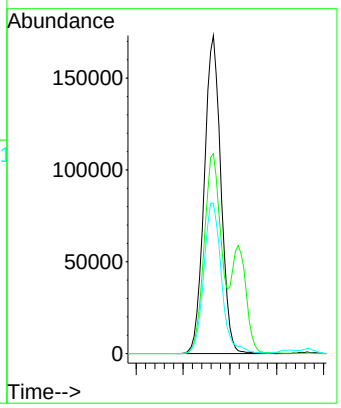


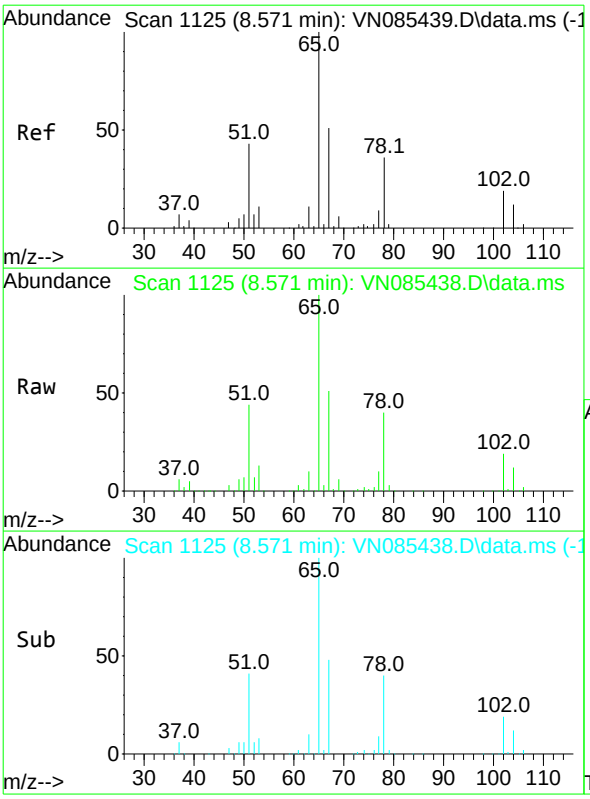




#32
1,1,1-Trichloroethane
Concen: 98.578 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 97 Resp: 426782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.2 | 49.8 | 74.6 |
| 61 | 50.6 | 41.4 | 62.2 |






#33
1,2-Dichloroethane-d4
Concen: 95.899 ug/l
RT: 8.571 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

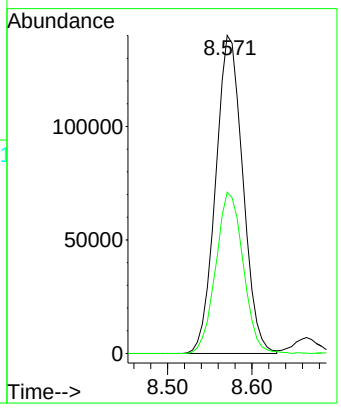
Tgt Ion: 65 Resp: 313645

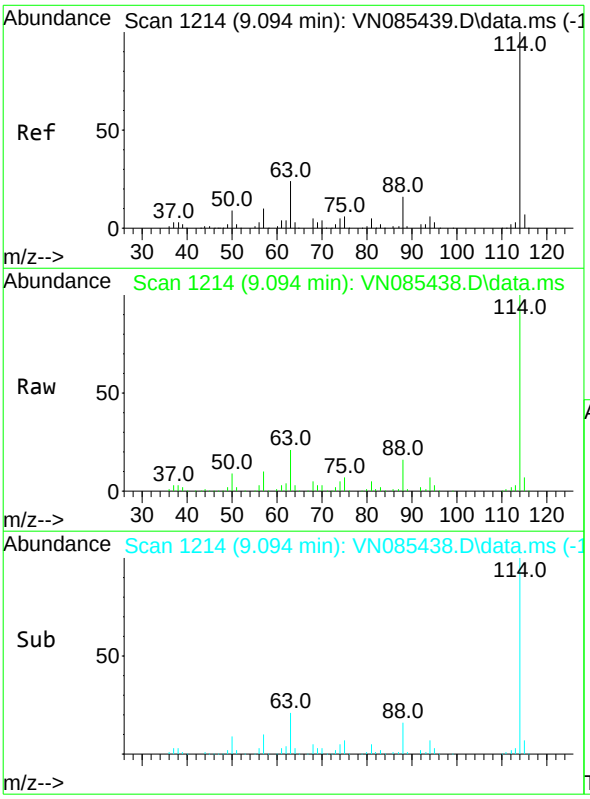
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.1 | 0.0 | 101.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

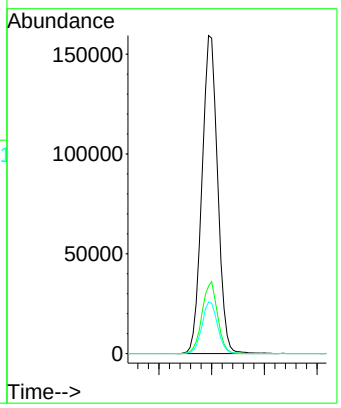


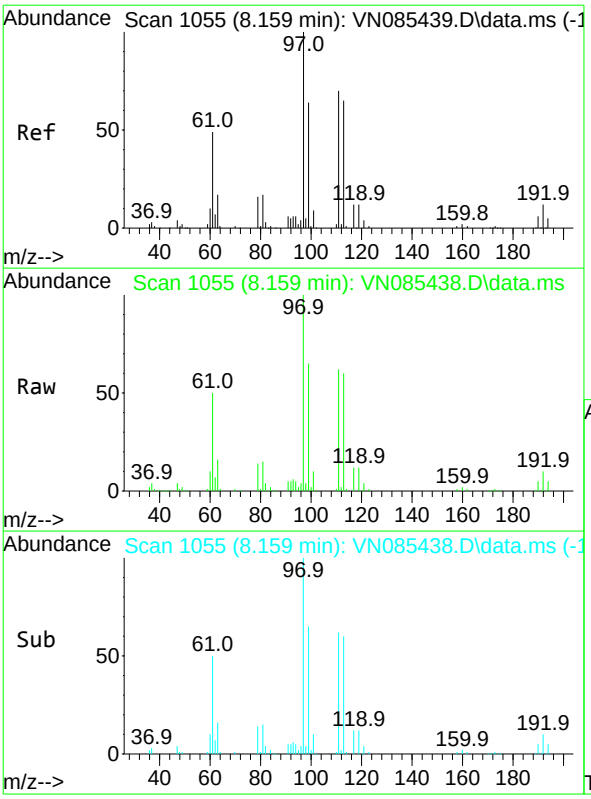




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:114 Resp: 329363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.2 | 0.0 | 47.6 |
| 88 | 16.2 | 0.0 | 32.6 |






#35
Dibromofluoromethane
Concen: 103.353 ug/l
RT: 8.159 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

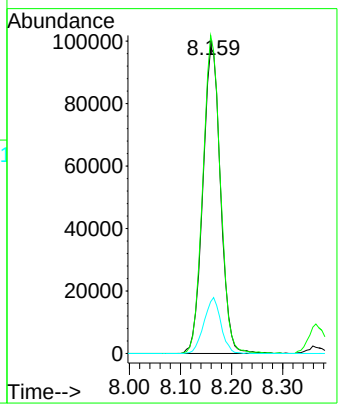
Tgt Ion:113 Resp: 236159

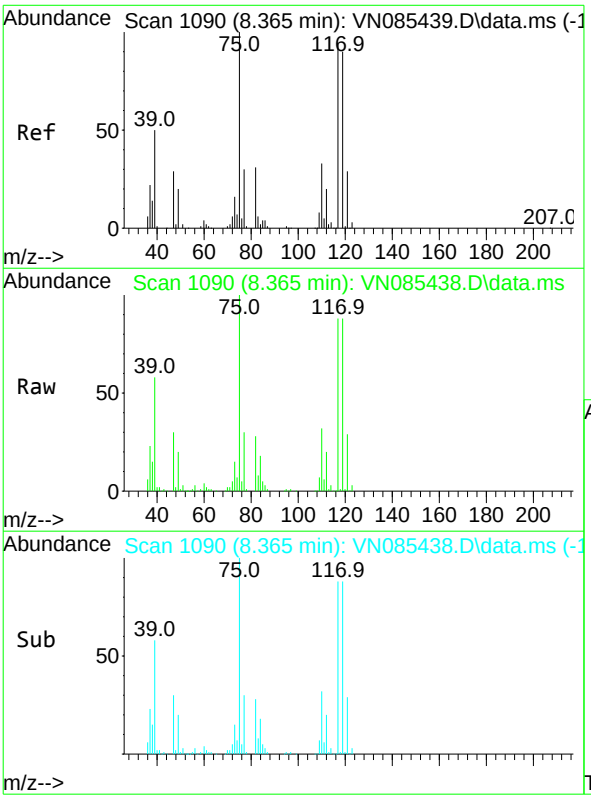
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.3 | 82.7 | 124.1 |
| 192 | 17.4 | 14.3 | 21.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

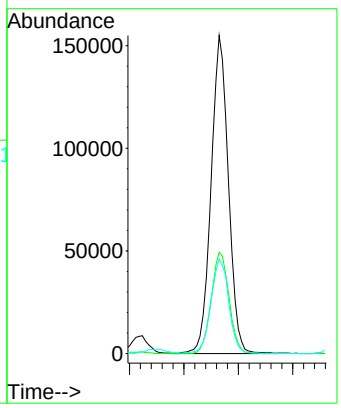


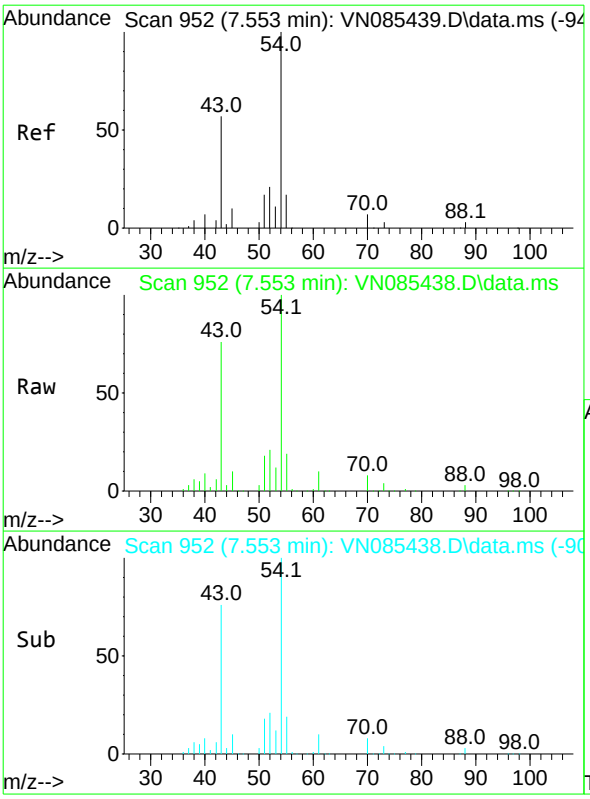




#36
1,1-Dichloropropene
Concen: 106.945 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 342961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 32.6 | 16.5 | 49.5 |
| 77 | 30.6 | 24.4 | 36.6 |






#37
Ethyl Acetate
Concen: 100.961 ug/l
RT: 7.553 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

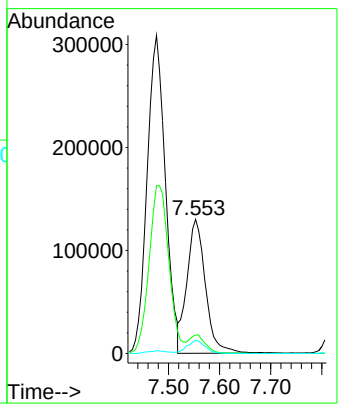
Tgt Ion: 43 Resp: 326802

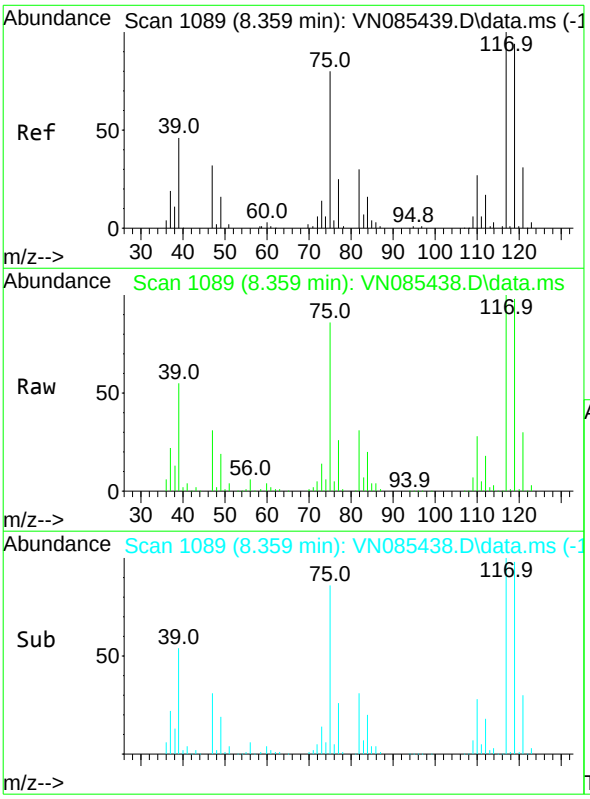
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 12.0 | 10.9 | 16.3 |
| 70 | 9.6 | 7.5 | 11.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

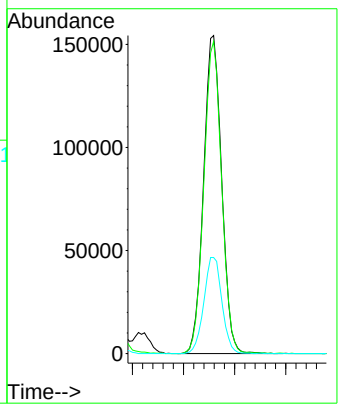


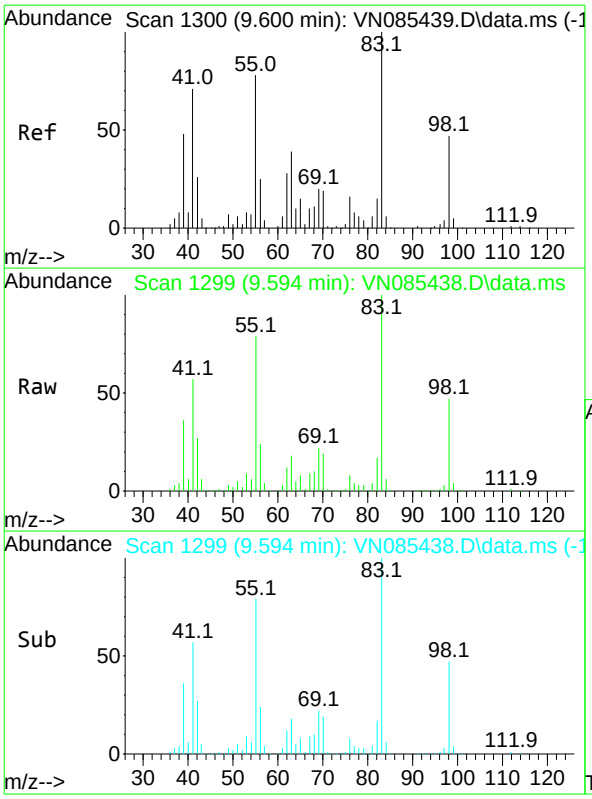




#38
Carbon Tetrachloride
Concen: 103.065 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:117 Resp: 378390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.1 | 75.4 | 113.2 |
| 121 | 30.2 | 24.6 | 37.0 |






#39
Methylcyclohexane
Concen: 123.354 ug/l
RT: 9.594 min Scan# 12
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

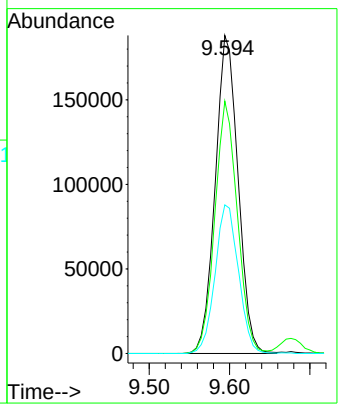
Tgt Ion: 83 Resp: 371734

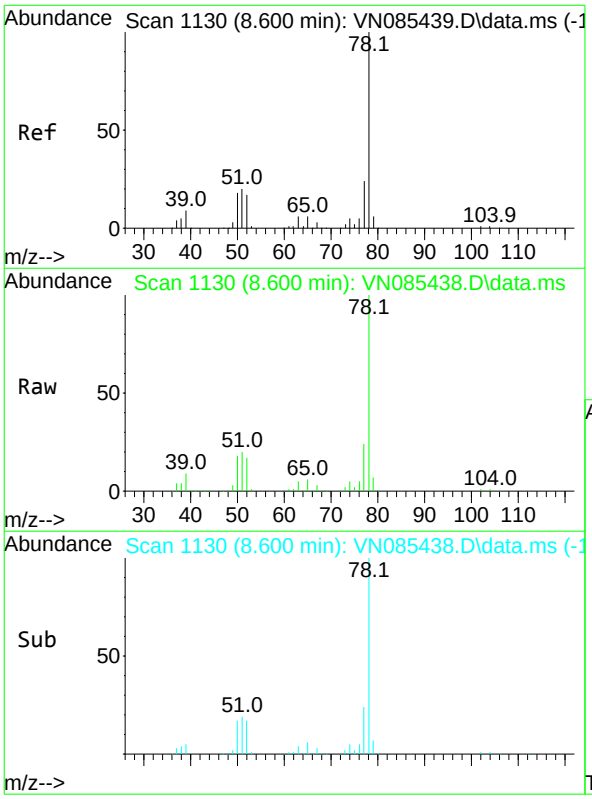
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 79.3 | 62.6 | 94.0 |
| 98 | 46.7 | 37.7 | 56.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

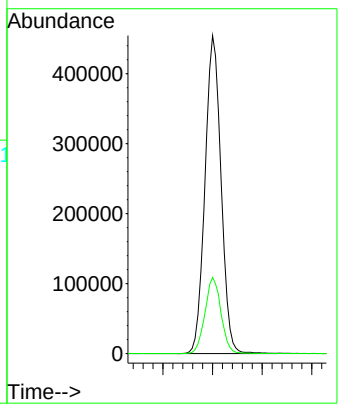


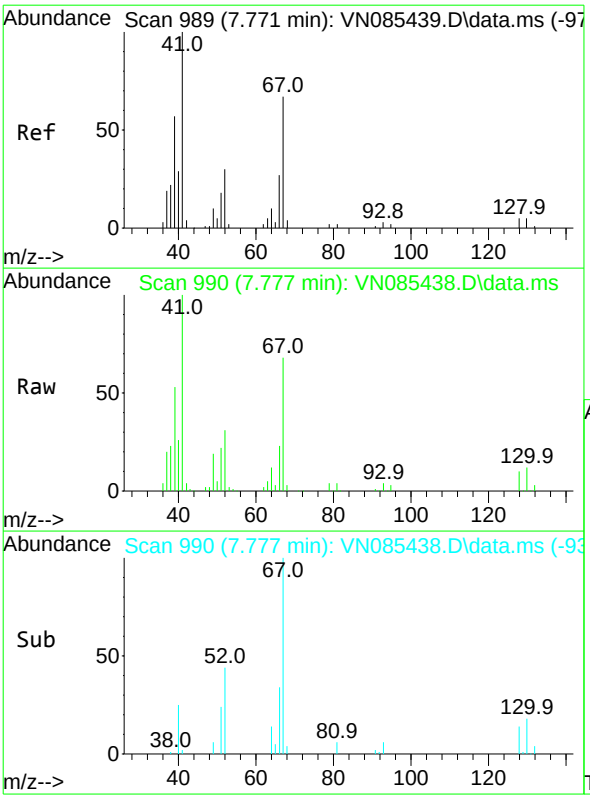




#40
Benzene
Concen: 106.001 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 78 Resp: 1021393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 109.454 ug/l
RT: 7.777 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

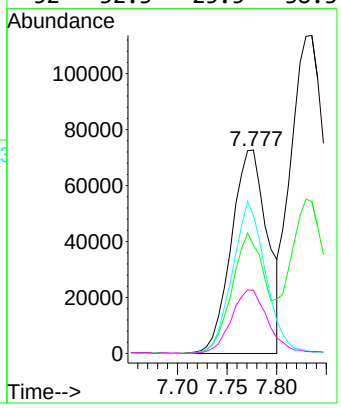
Tgt Ion: 41 Resp: 184326

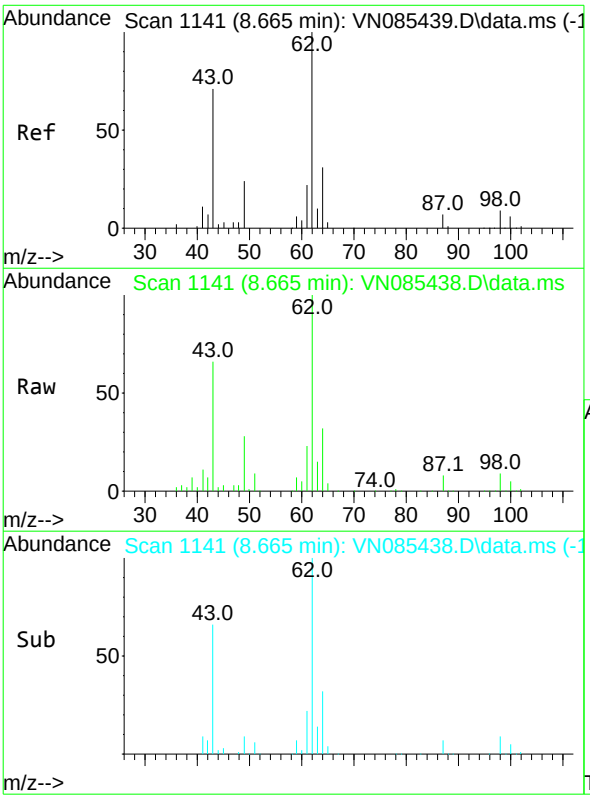
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 52.8 | 46.0 | 69.0 |
| 67 | 68.8 | 57.4 | 86.2 |
| 52 | 32.3 | 25.5 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

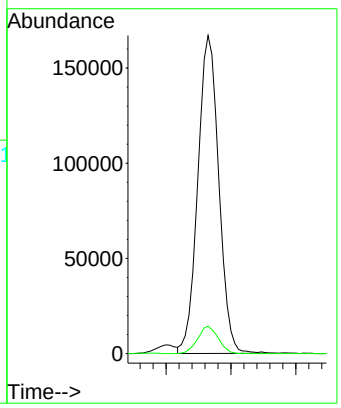


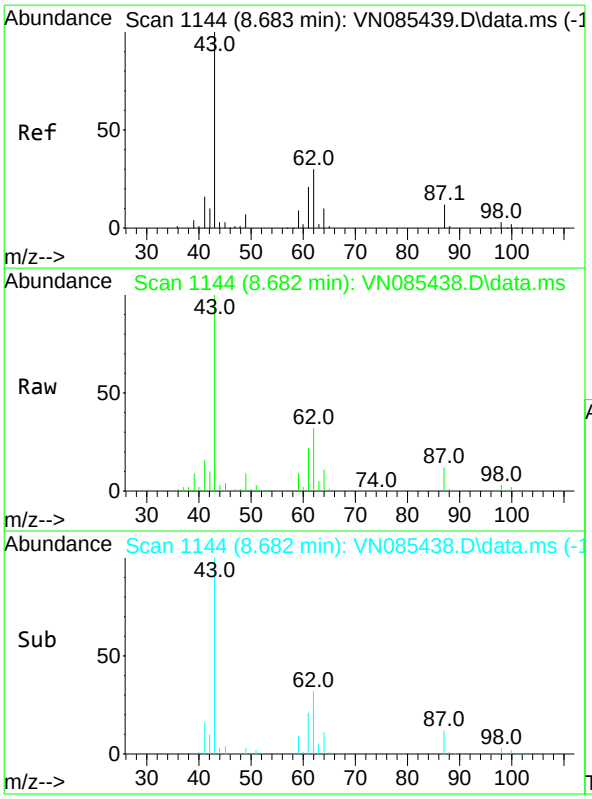




#42
1,2-Dichloroethane
Concen: 103.314 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 62 Resp: 374938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.4 | 0.0 | 17.0 |






#43
Isopropyl Acetate
Concen: 106.035 ug/l
RT: 8.682 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

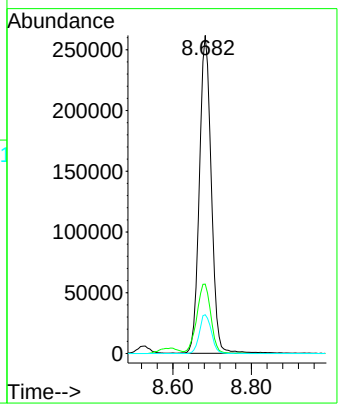
Tgt Ion: 43 Resp: 549969

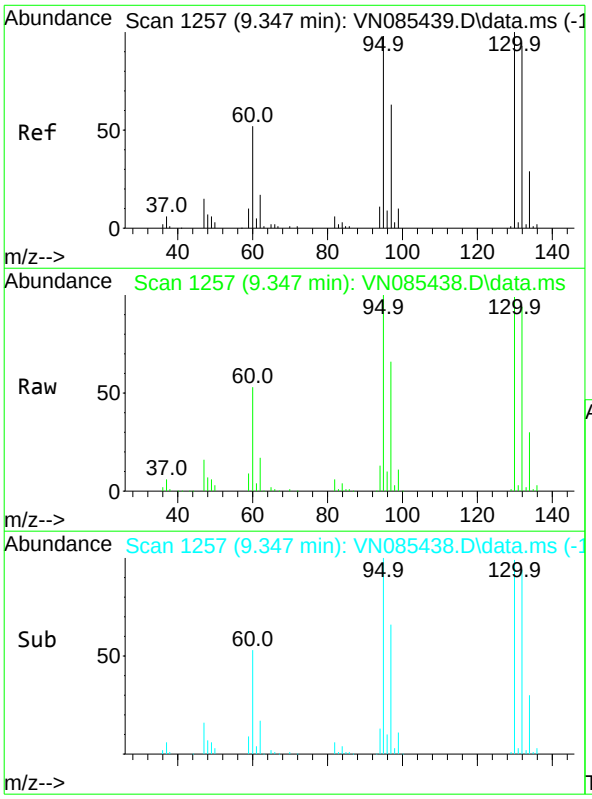
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 25.7 | 20.7 | 31.1 |
| 87 | 12.2 | 9.8 | 14.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

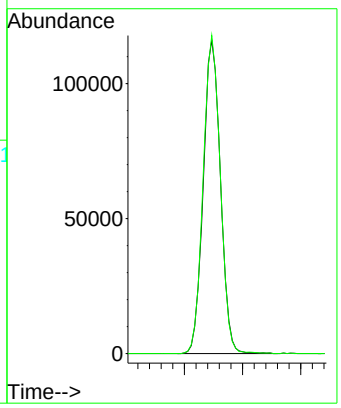


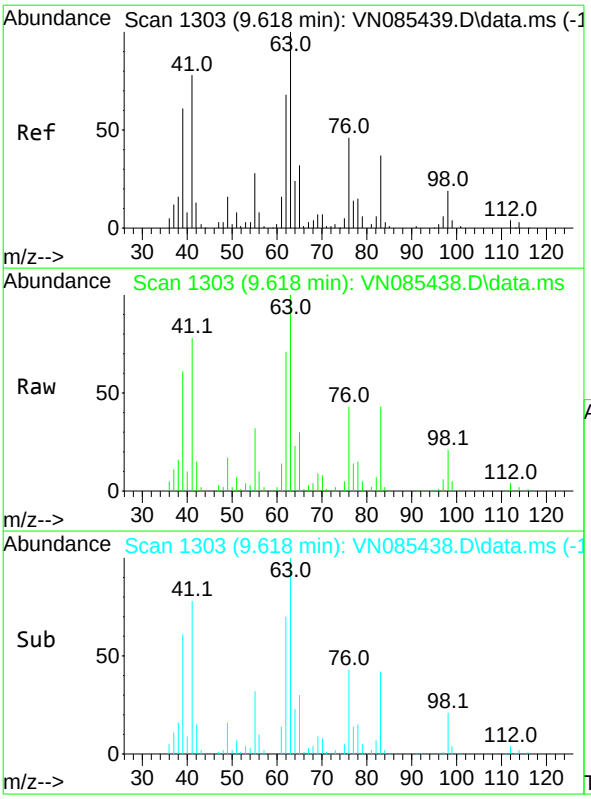




#44
Trichloroethene
Concen: 106.242 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:130 Resp: 238296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.5 | 0.0 | 195.8 |






#45
1,2-Dichloropropane
Concen: 104.405 ug/l
RT: 9.618 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

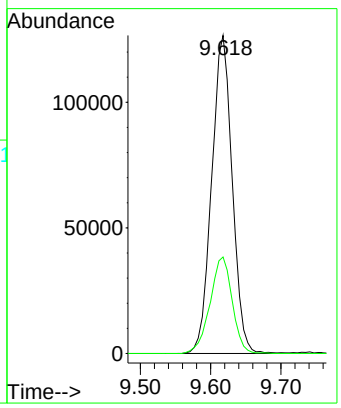
Tgt Ion: 63 Resp: 256964

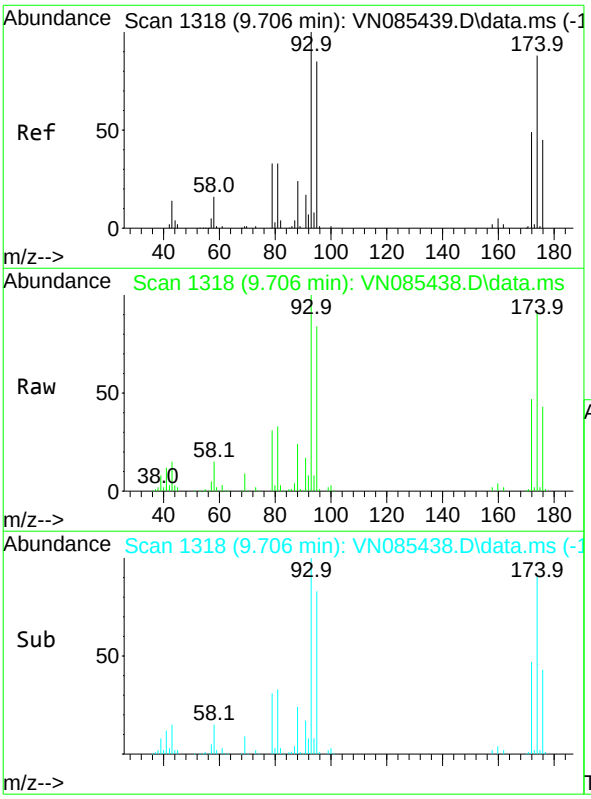
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.3 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

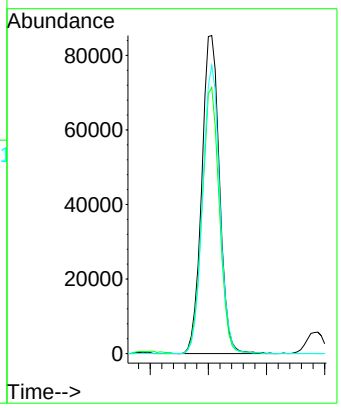


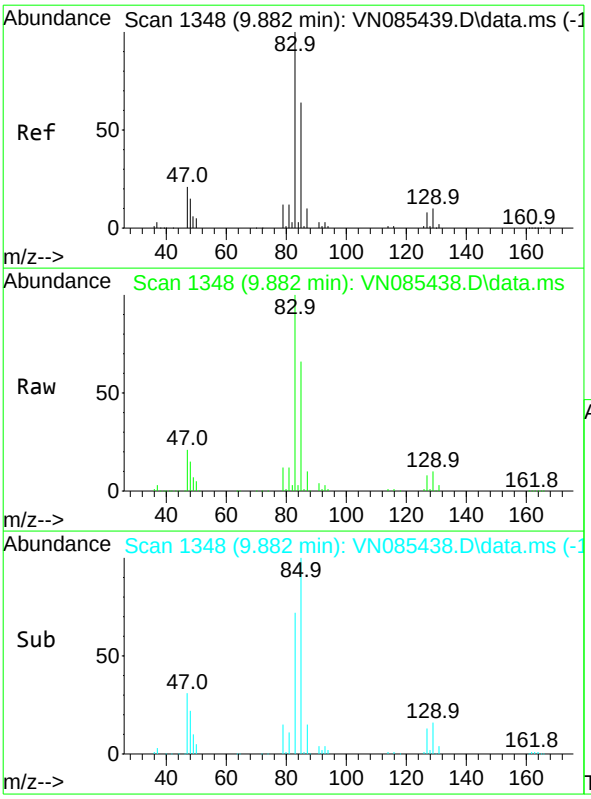




#46
Dibromomethane
Concen: 101.913 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 93 Resp: 180990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.6 | 64.7 | 97.1 |
| 174 | 87.5 | 69.0 | 103.4 |






#47
Bromodichloromethane
Concen: 107.377 ug/l
RT: 9.882 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

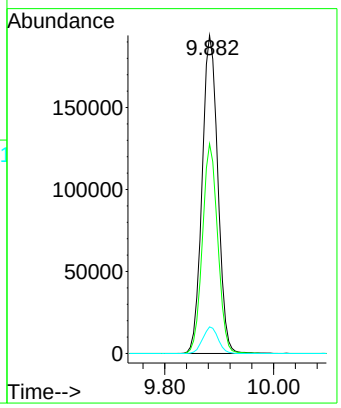
Tgt Ion: 83 Resp: 388499

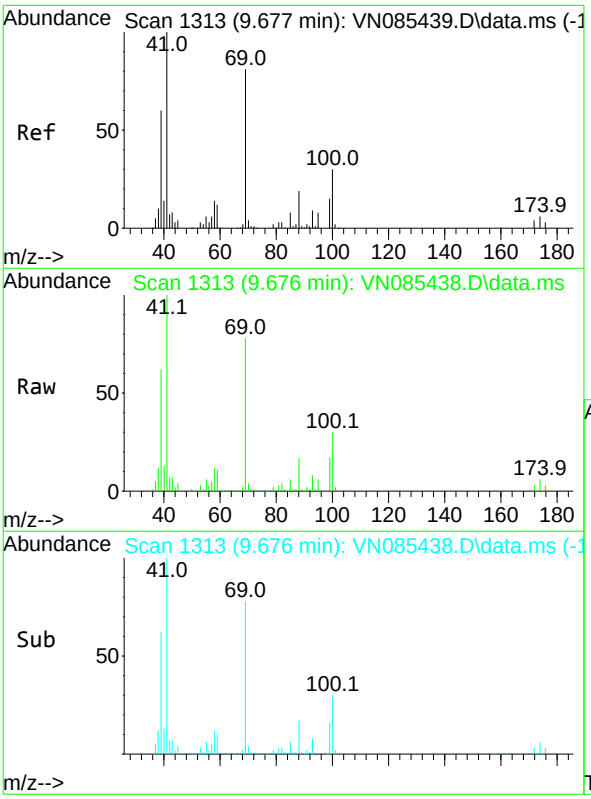
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.9 | 51.2 | 76.8 |
| 127 | 8.4 | 6.5 | 9.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

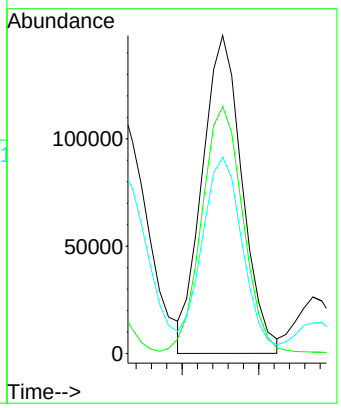


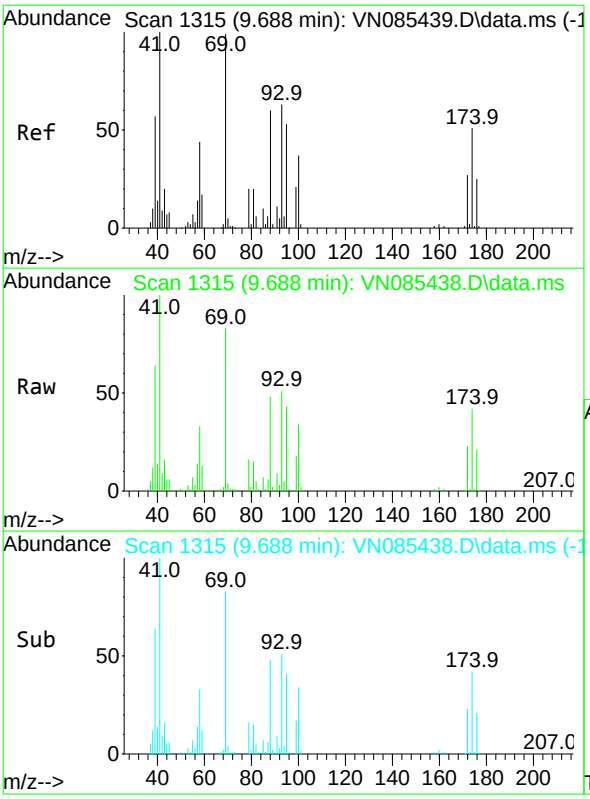




#48
Methyl methacrylate
Concen: 114.685 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 41 Resp: 267689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 80.9 | 64.7 | 97.1 |
| 39 | 63.1 | 49.0 | 73.6 |






#49
1,4-Dioxane
Concen: 2133.992 ug/l
RT: 9.688 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

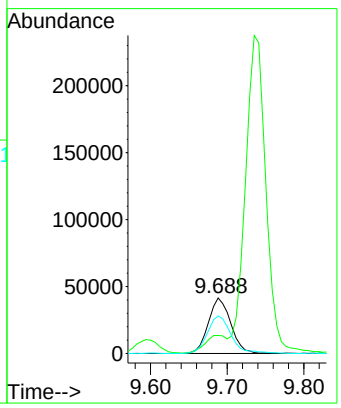
Tgt Ion: 88 Resp: 83879

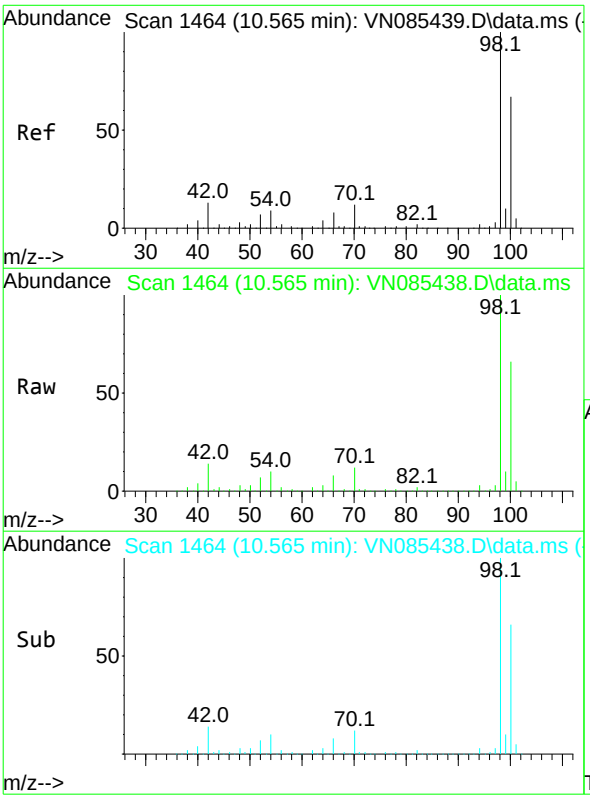
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.3 | 26.6 | 39.8 |
| 58 | 72.1 | 59.5 | 89.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

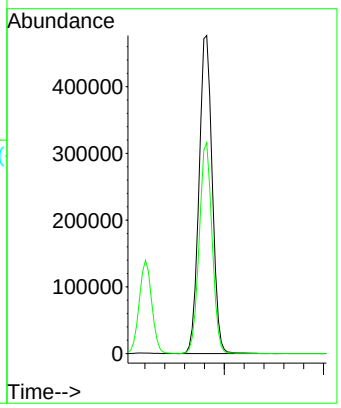


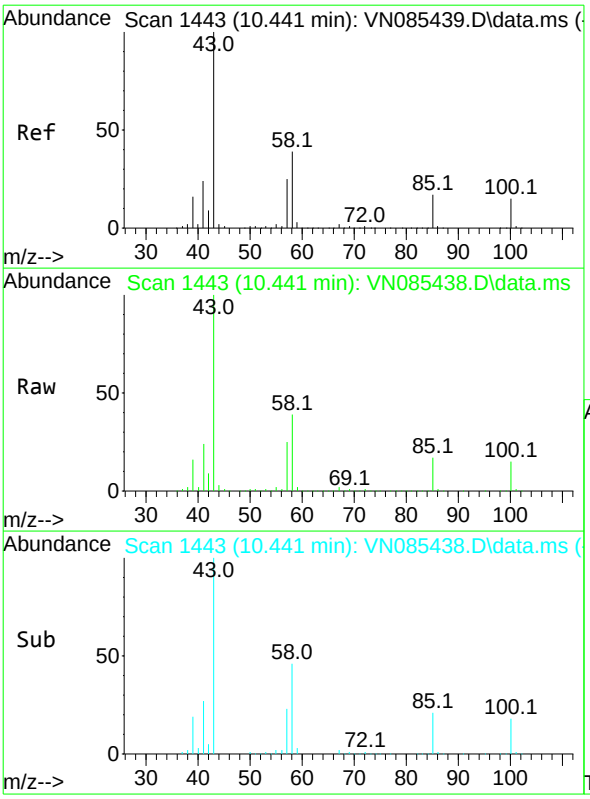




#50
Toluene-d8
Concen: 108.636 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 98 Resp: 881956

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






#51
4-Methyl-2-Pentanone
Concen: 546.159 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

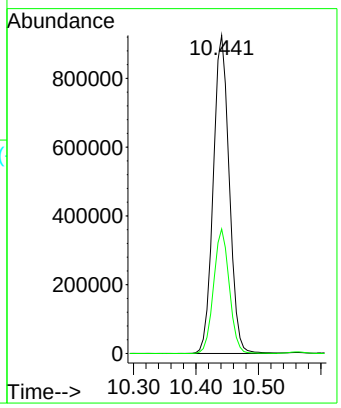
Tgt Ion: 43 Resp: 1643800

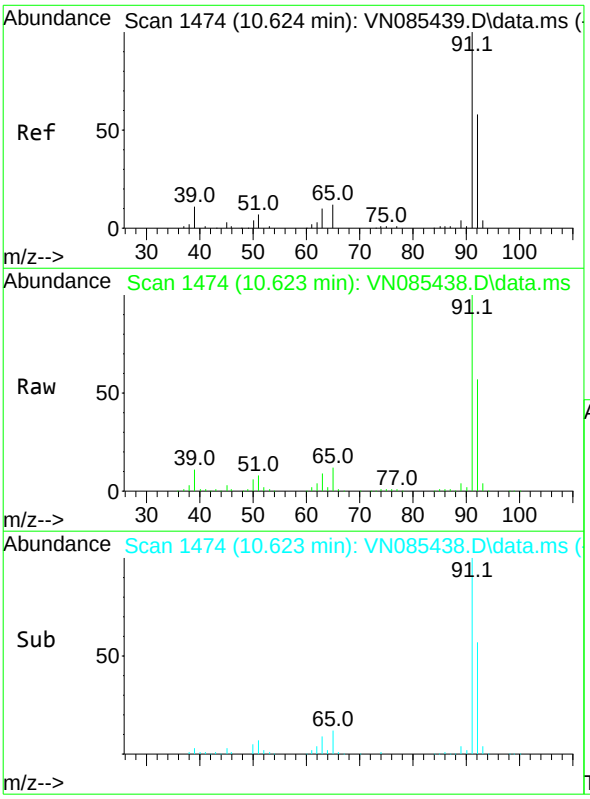
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.4 | 30.5 | 45.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

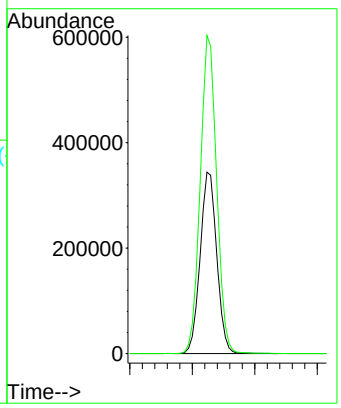


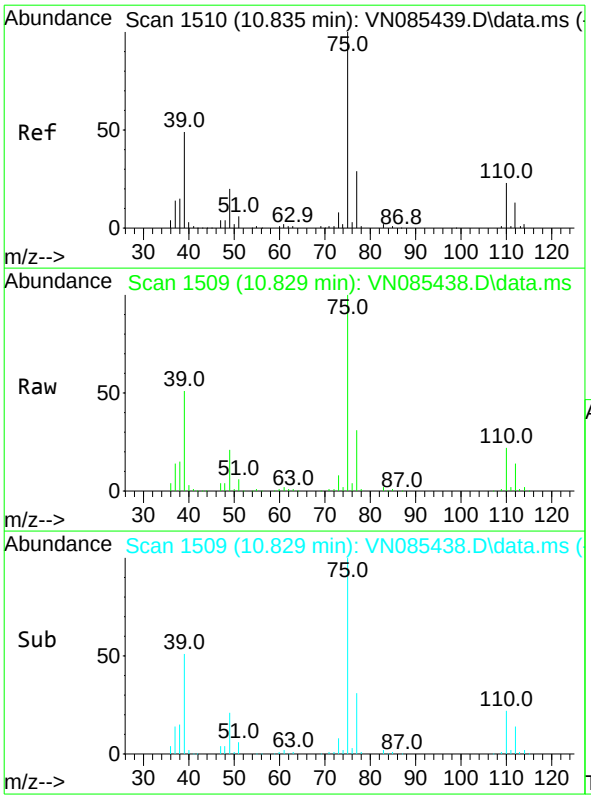




#52
Toluene
Concen: 113.689 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 92 Resp: 634743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.1 | 139.2 | 208.8 |






#53
t-1,3-Dichloropropene
Concen: 114.424 ug/l
RT: 10.829 min Scan# 15
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

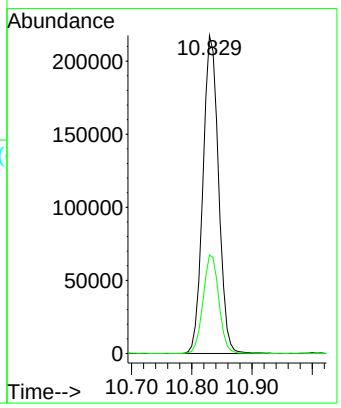
Tgt Ion: 75 Resp: 391238

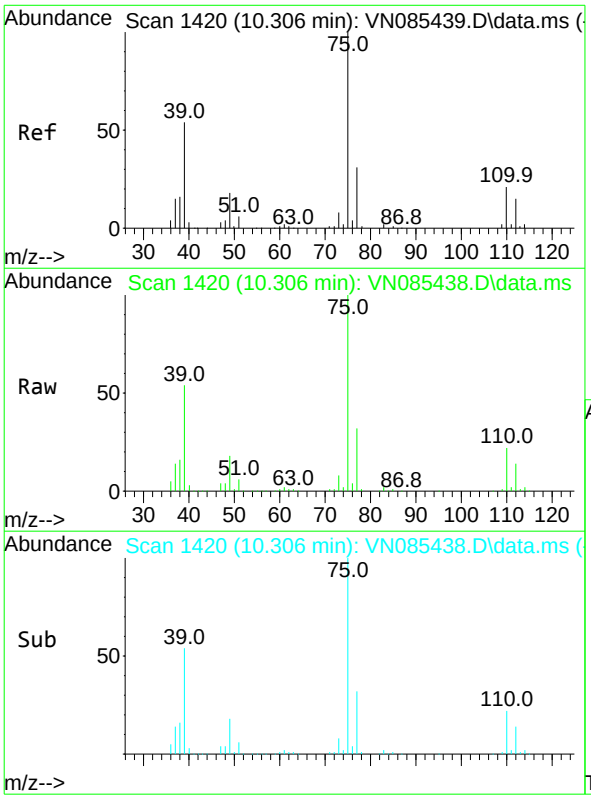
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.0 | 23.5 | 35.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

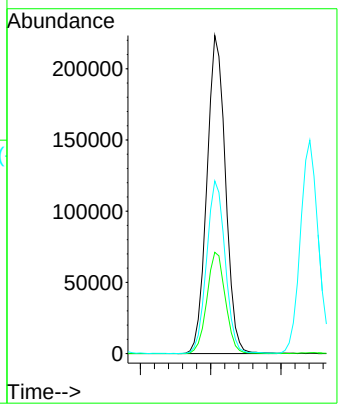


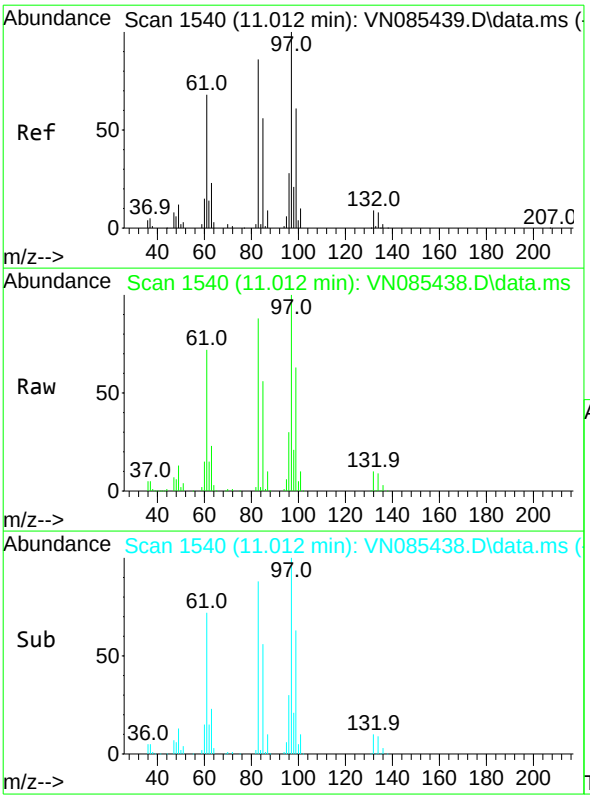




#54
cis-1,3-Dichloropropene
Concen: 112.369 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 410403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.0 | 37.4 |
| 39 | 54.3 | 43.1 | 64.7 |






#55
1,1,2-Trichloroethane
Concen: 103.879 ug/l
RT: 11.012 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

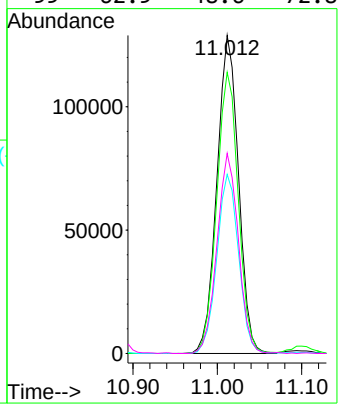
Tgt Ion: 97 Resp: 229522

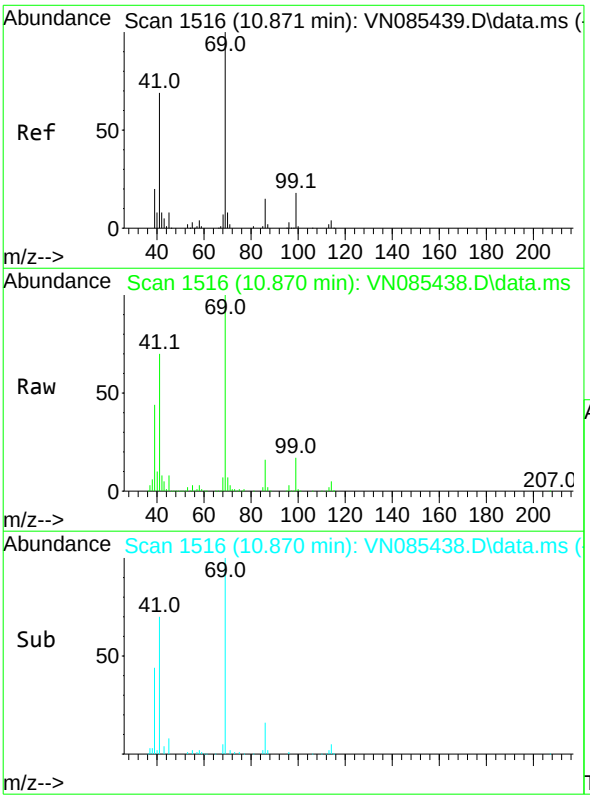
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.4 | 69.0 | 103.6 |
| 85 | 56.3 | 44.6 | 66.8 |
| 99 | 62.9 | 48.6 | 72.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

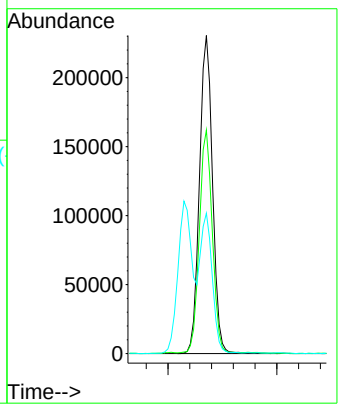


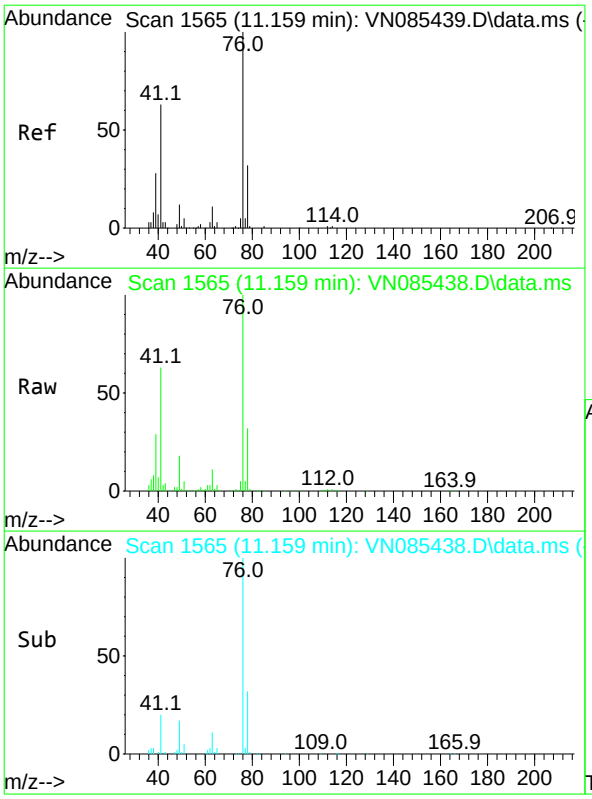




#56
Ethyl methacrylate
Concen: 101.029 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 69 Resp: 383663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 69.1 | 54.6 | 82.0 |
| 39 | 40.1 | 32.4 | 48.6 |






#57
1,3-Dichloropropane
Concen: 107.469 ug/l
RT: 11.159 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 76 Resp: 412886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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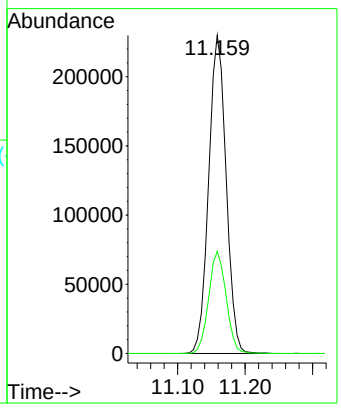
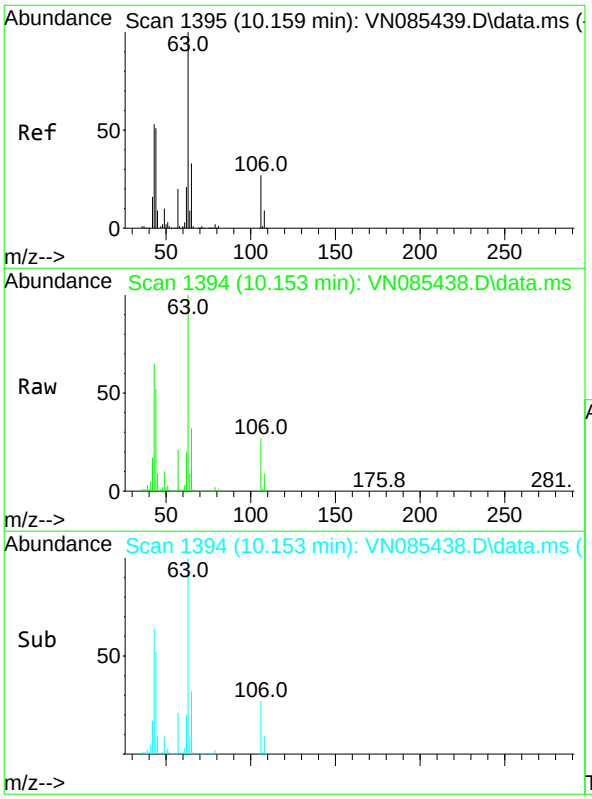
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

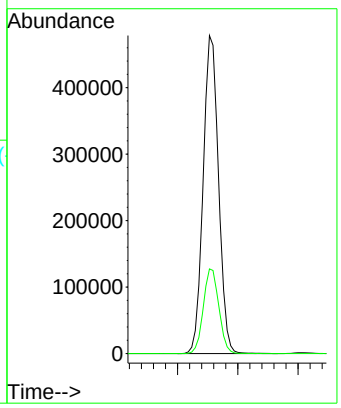


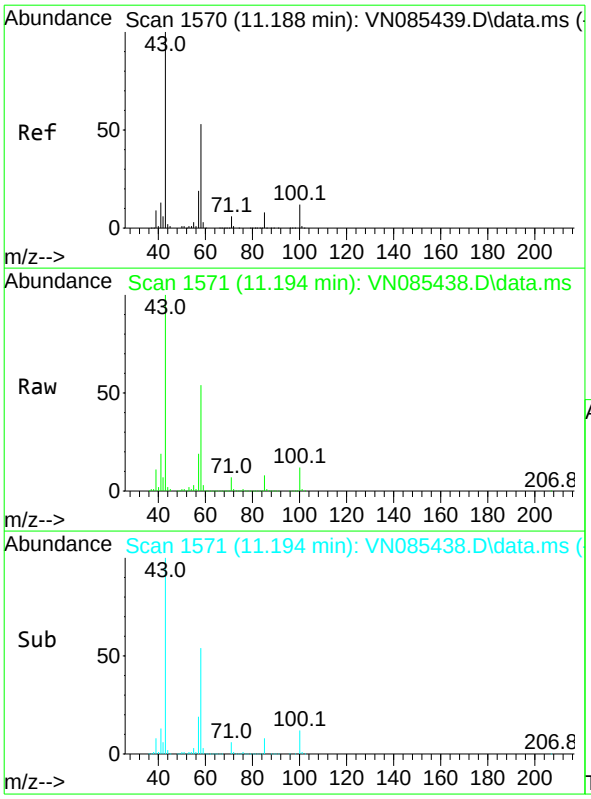




#58
2-Chloroethyl Vinyl ether
Concen: 605.243 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 63 Resp: 848636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.8 | 21.6 | 32.4 |






#59
2-Hexanone
Concen: 556.643 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

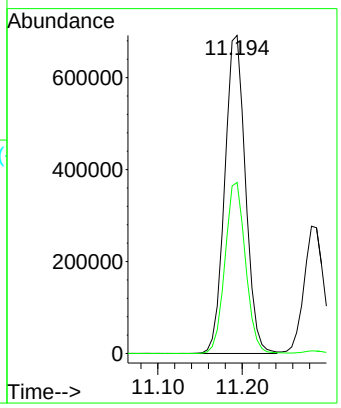
Tgt Ion: 43 Resp: 1178831

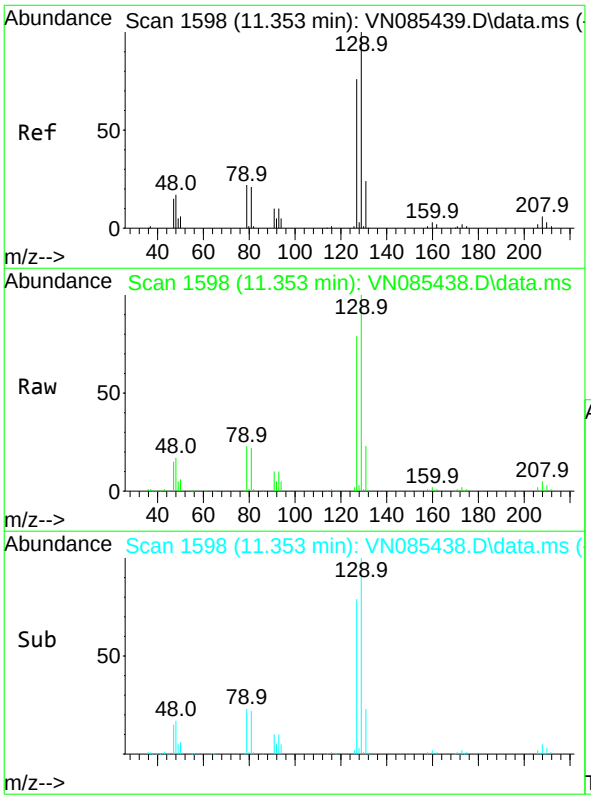
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 53.2 | 26.2 | 78.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

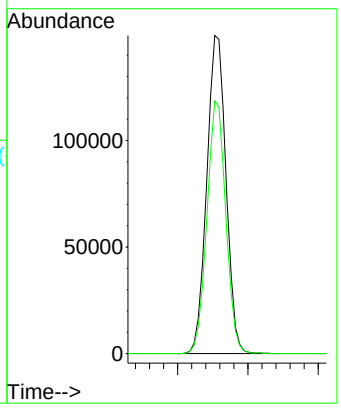


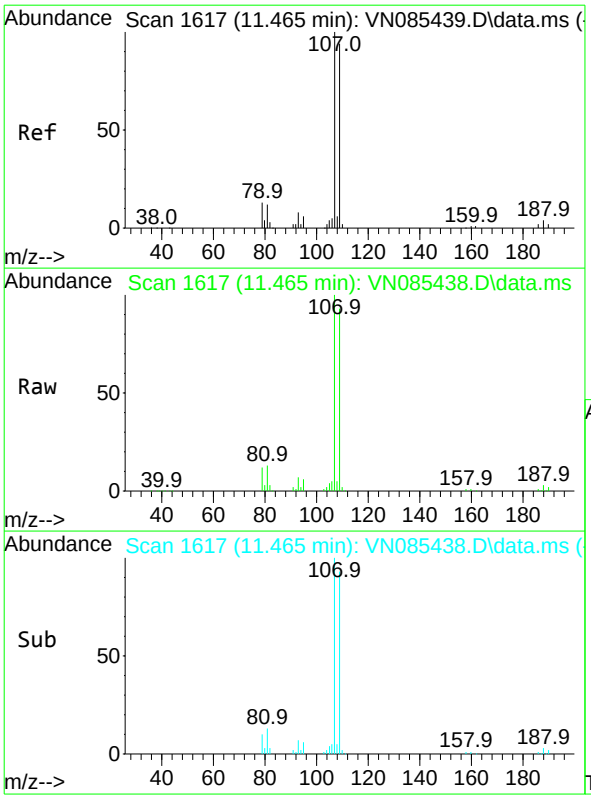




#60
Dibromochloromethane
Concen: 106.227 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:129 Resp: 283361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.1 | 38.6 | 115.8 |






#61
1,2-Dibromoethane
Concen: 104.623 ug/l
RT: 11.465 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

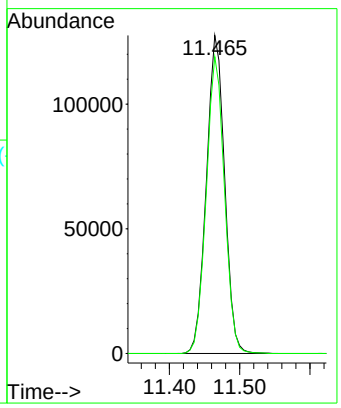
Tgt Ion:107 Resp: 230104

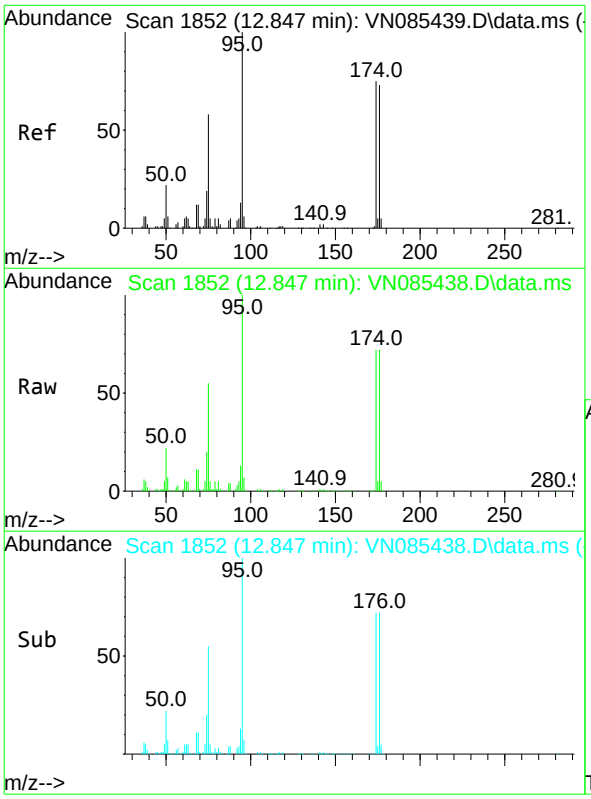
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.1 | 75.9 | 113.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

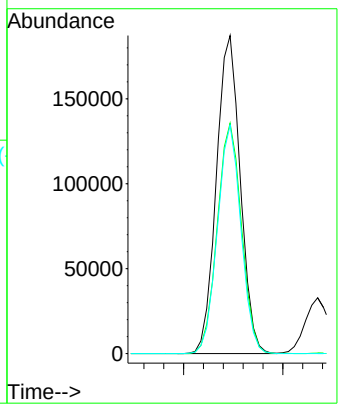


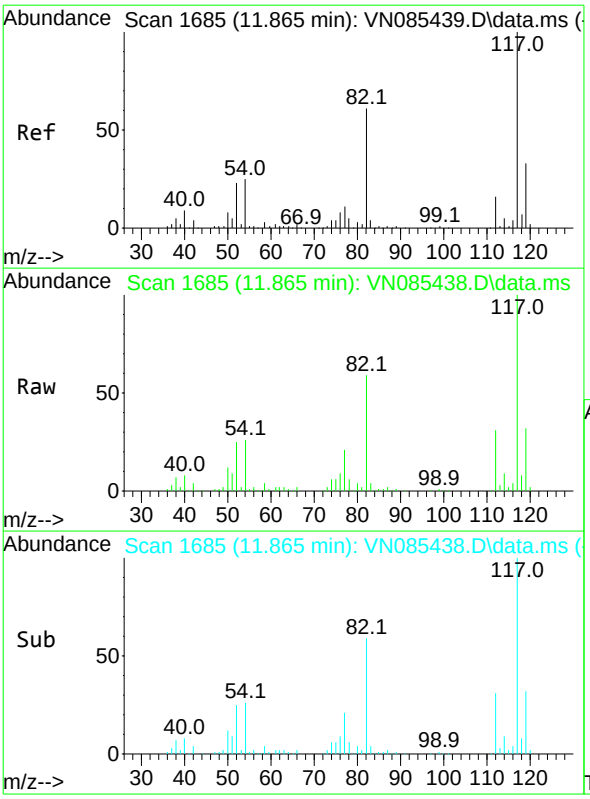




#62
4-Bromofluorobenzene
Concen: 112.765 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 95 Resp: 313161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 73.4 | 0.0 | 145.0 |
| 176 | 70.5 | 0.0 | 142.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

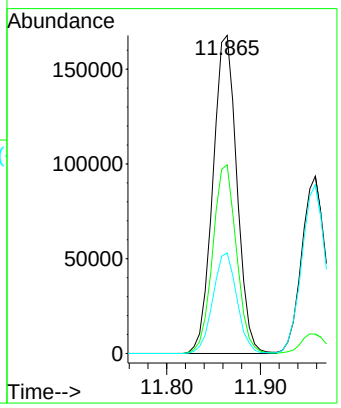
Tgt Ion:117 Resp: 298938

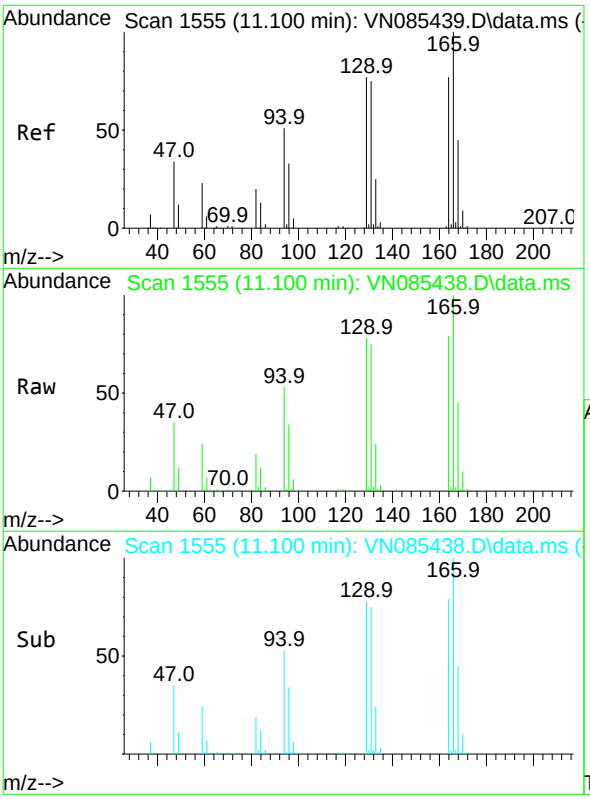
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.3 | 48.6 | 72.8 |
| 119 | 31.6 | 26.6 | 39.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

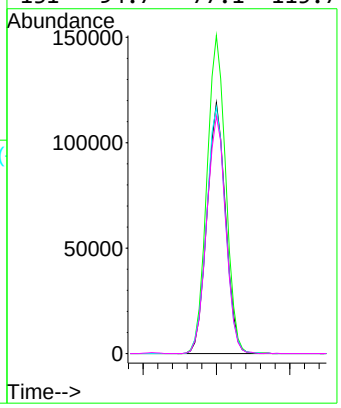


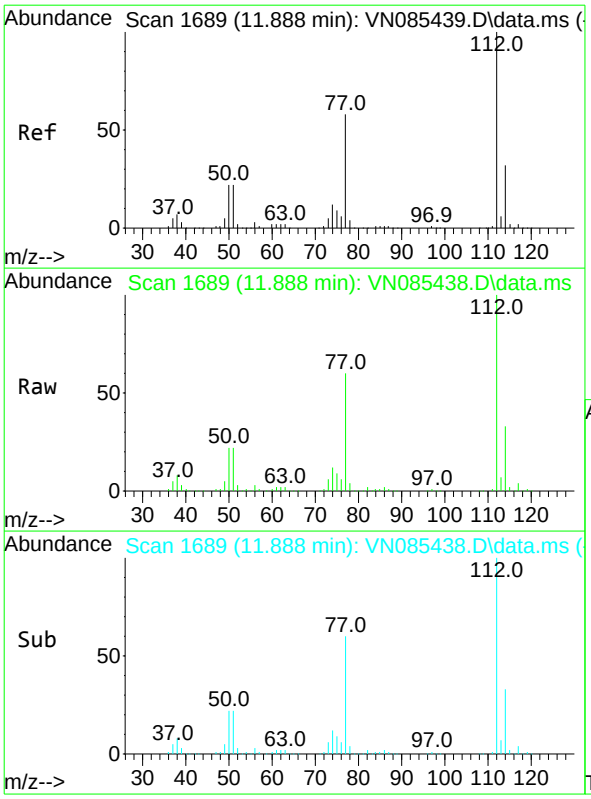




#64
Tetrachloroethene
Concen: 102.980 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:164 Resp: 209870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.8 | 103.4 | 155.2 |
| 129 | 98.3 | 79.2 | 118.8 |
| 131 | 94.7 | 77.1 | 115.7 |






#65
Chlorobenzene
Concen: 103.482 ug/l
RT: 11.888 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:112 Resp: 677679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.5 | 25.3 | 37.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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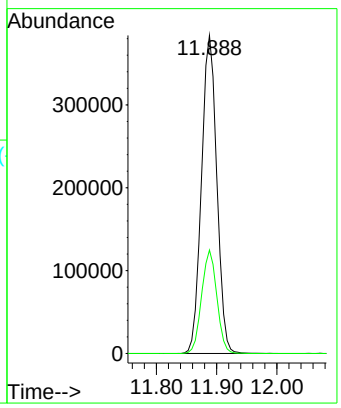
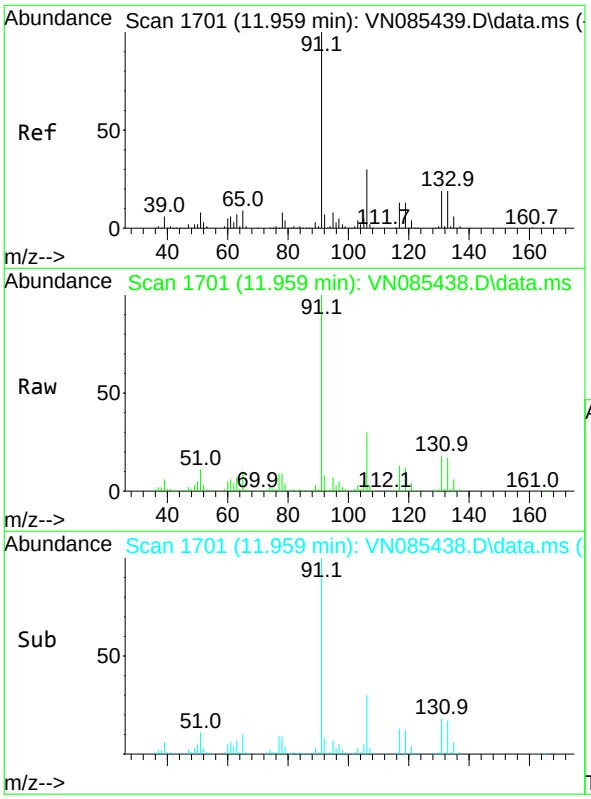
Supervised By :Mahesh Dadoda 01/15/2025

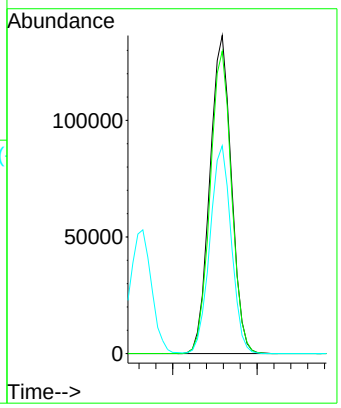


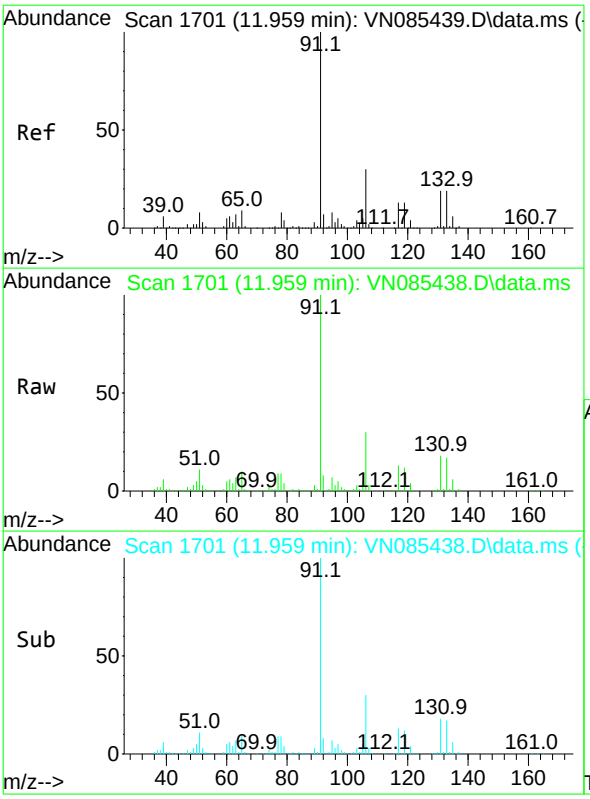




#66
1,1,1,2-Tetrachloroethane
Concen: 100.517 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:131 Resp: 241593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.3 | 47.4 | 142.3 |
| 119 | 64.9 | 33.1 | 99.5 |






#67
Ethyl Benzene
Concen: 116.169 ug/l
RT: 11.959 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

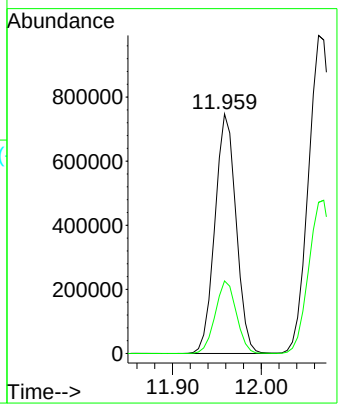
Tgt Ion: 91 Resp: 1239080

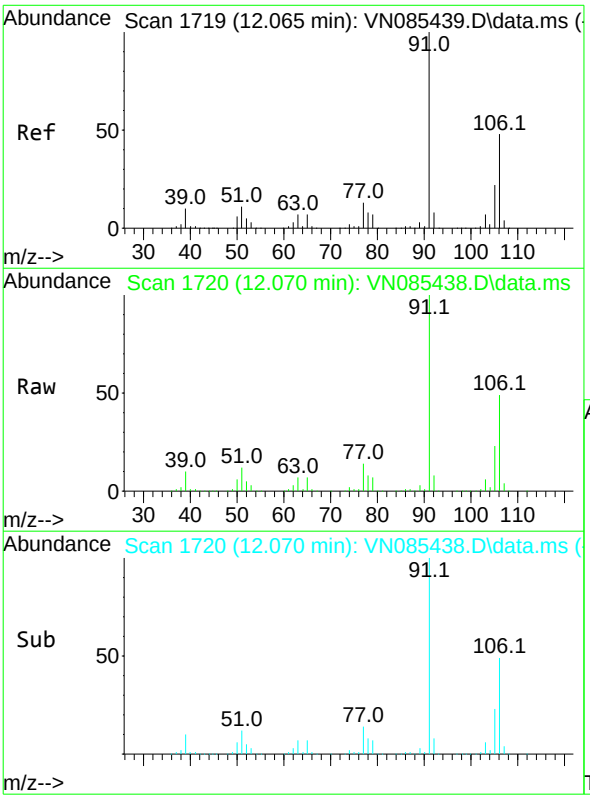
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.3 | 23.8 | 35.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

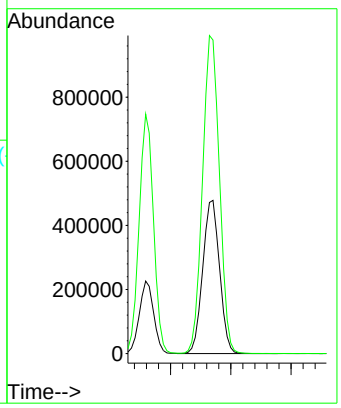


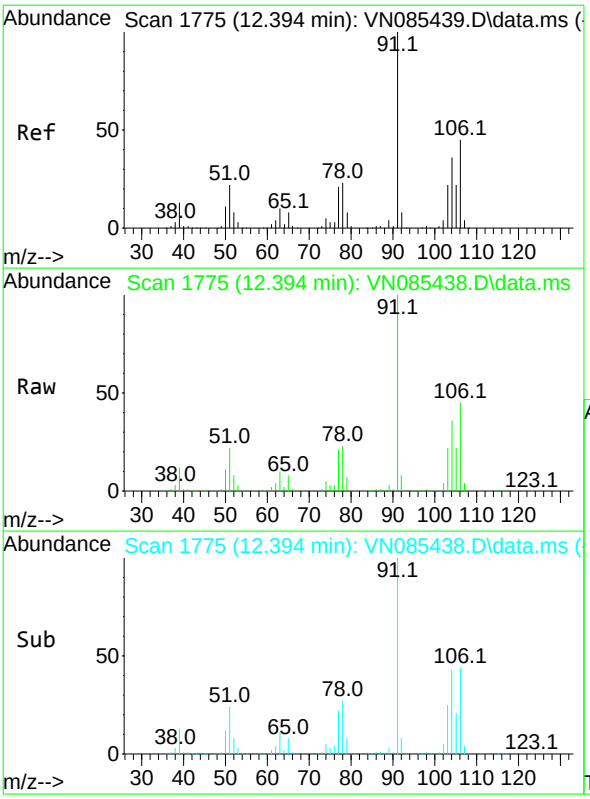




#68
m/p-Xylenes
Concen: 235.219 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:106 Resp: 927244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.0 | 167.7 | 251.5 |






#69
o-Xylene
Concen: 117.135 ug/l
RT: 12.394 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

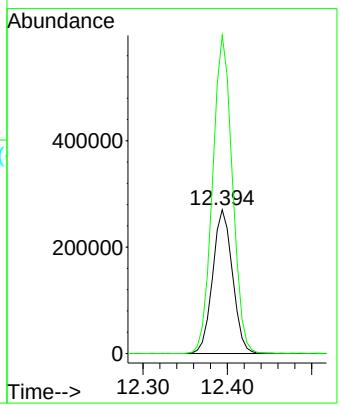
Tgt Ion:106 Resp: 441279

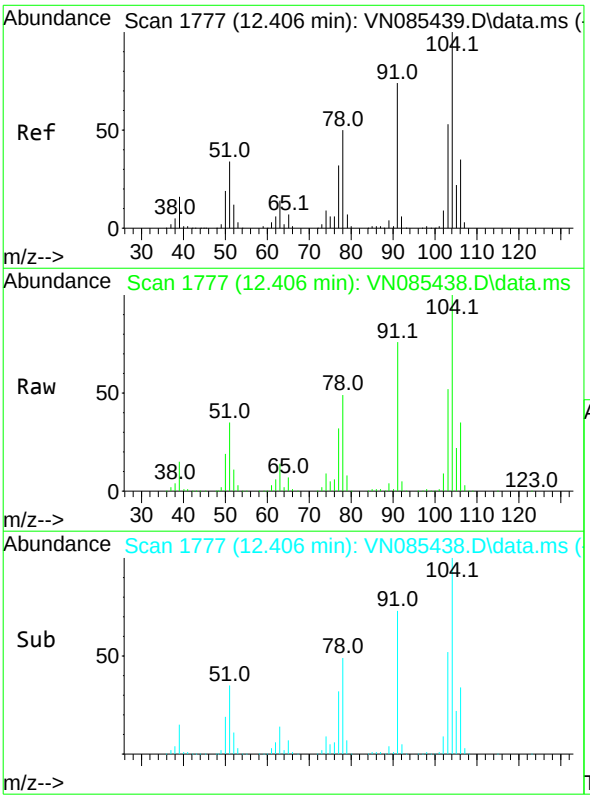
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 221.3 | 110.4 | 331.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

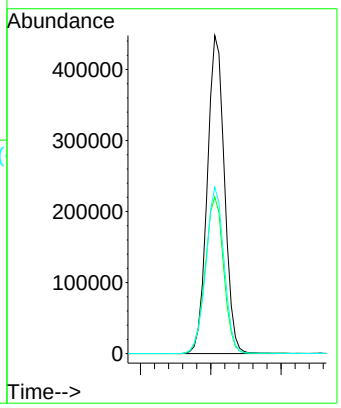


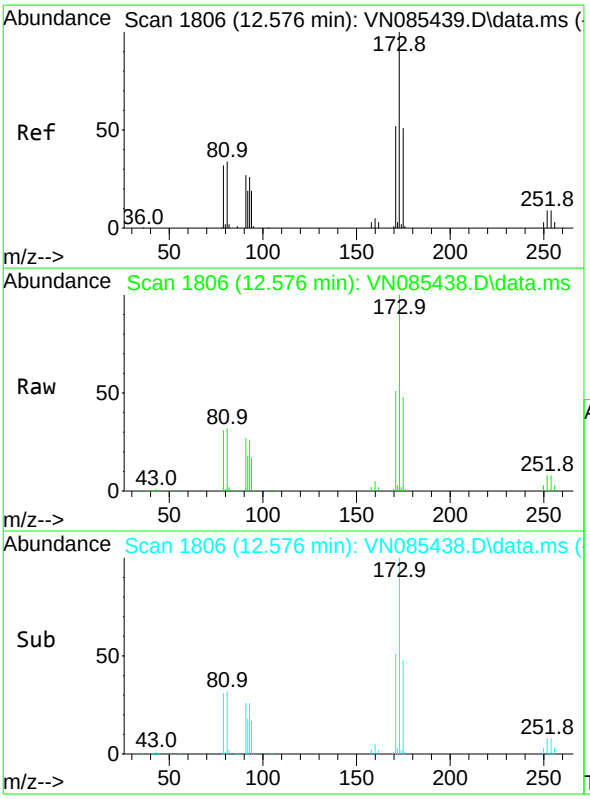




#70
Styrene
Concen: 121.919 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:104 Resp: 760136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.8 | 42.5 | 63.7 |
| 103 | 55.3 | 43.8 | 65.8 |






#71
Bromoform
Concen: 108.227 ug/l
RT: 12.576 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

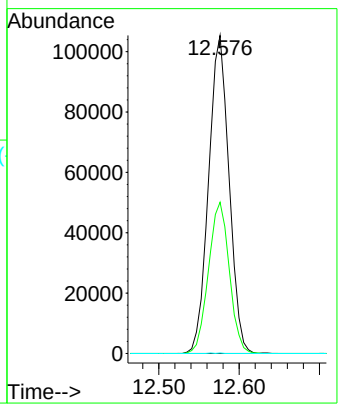
Tgt Ion:173 Resp: 186124

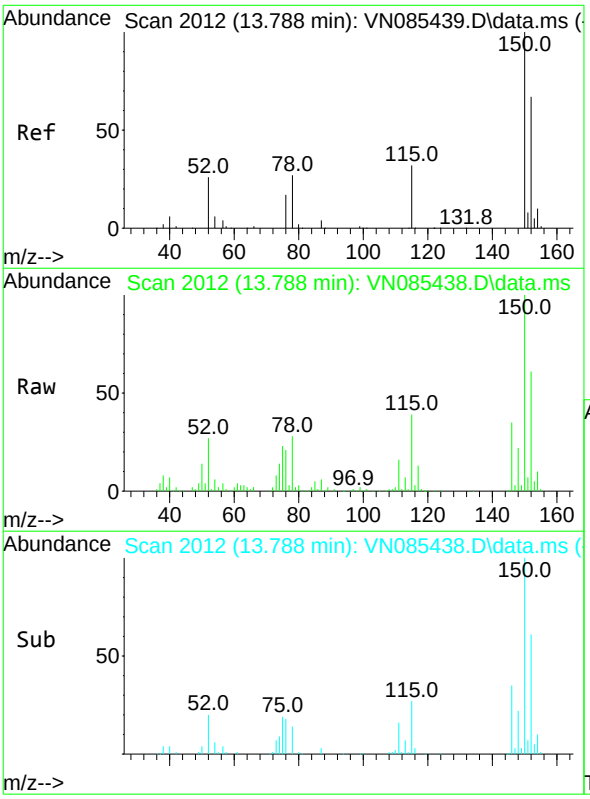
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.4 | 24.4 | 73.2 |
| 254 | 0.1 | 0.0 | 0.0# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

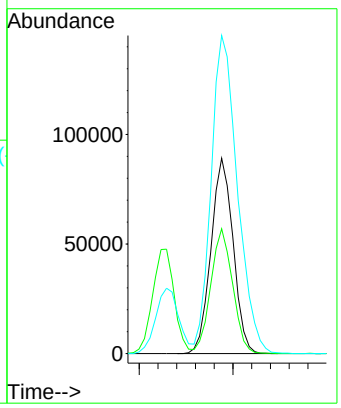


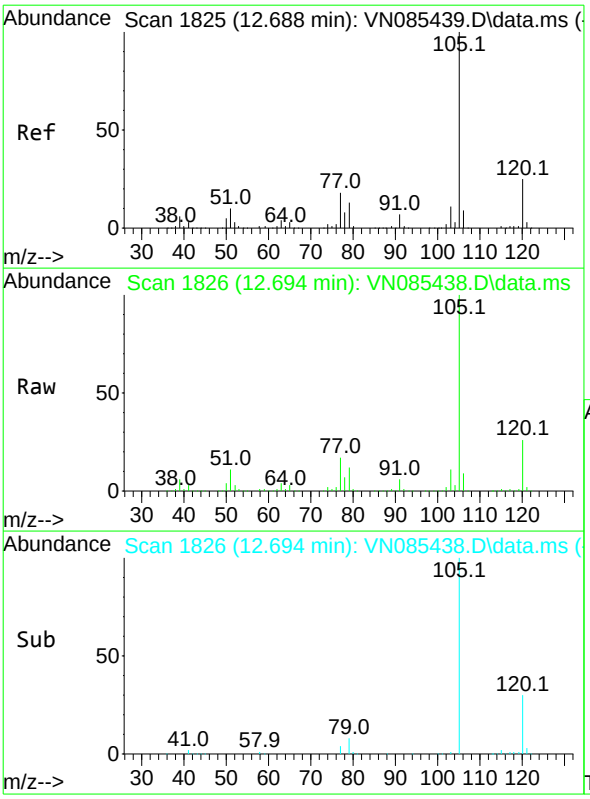




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:152 Resp: 146196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.7 | 31.1 | 93.3 |
| 150 | 193.1 | 0.0 | 343.6 |






#73
Isopropylbenzene
Concen: 116.221 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

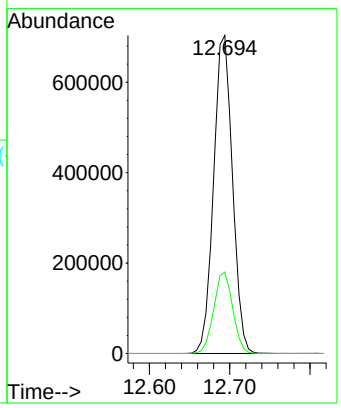
Tgt Ion:105 Resp: 1146752

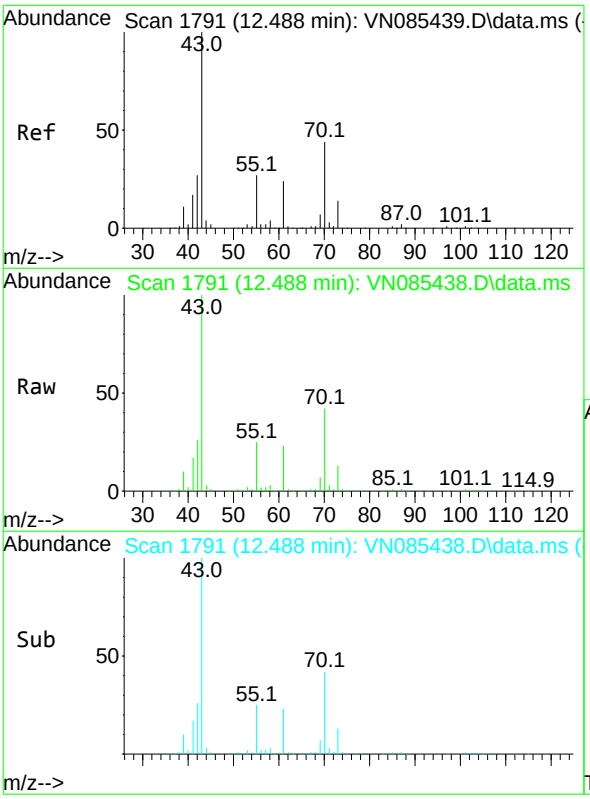
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.7 | 12.8 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

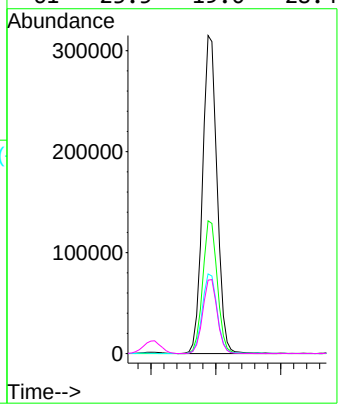


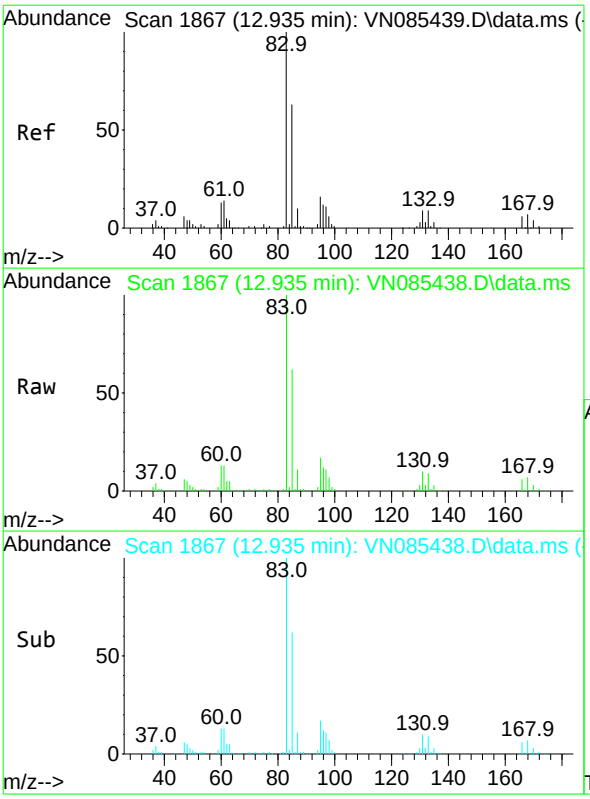




#74
N-amyl acetate
Concen: 110.308 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 489217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 41.9 | 34.0 | 51.0 |
| 55 | 25.7 | 21.4 | 32.2 |
| 61 | 23.5 | 19.0 | 28.4 |






#75
1,1,2,2-Tetrachloroethane
Concen: 94.039 ug/l
RT: 12.935 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

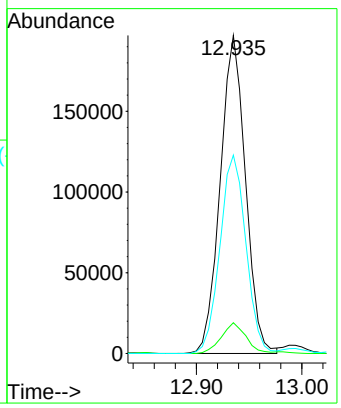
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

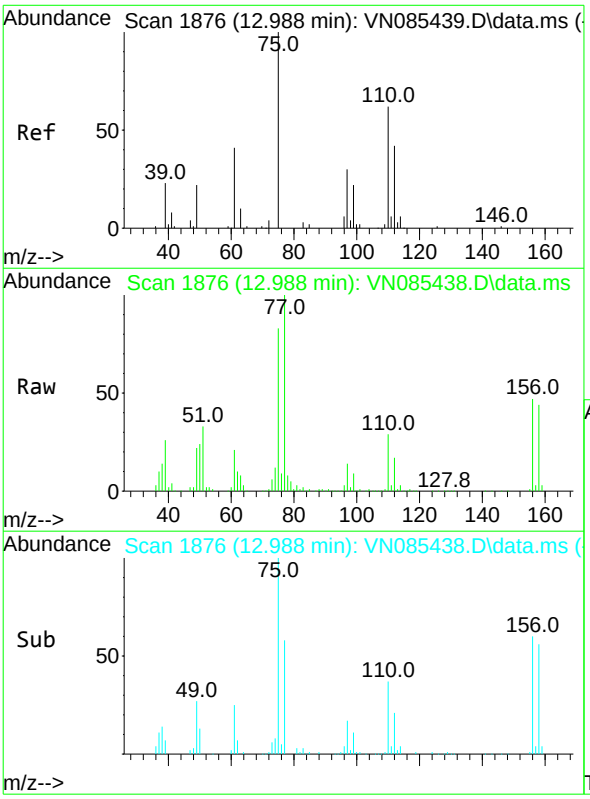
Tgt Ion: 83 Resp: 327767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.8 | 4.8 | 14.4 |
| 85 | 64.1 | 32.2 | 96.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

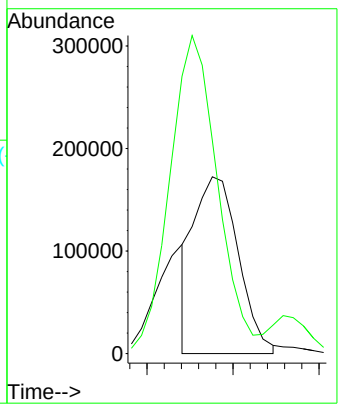


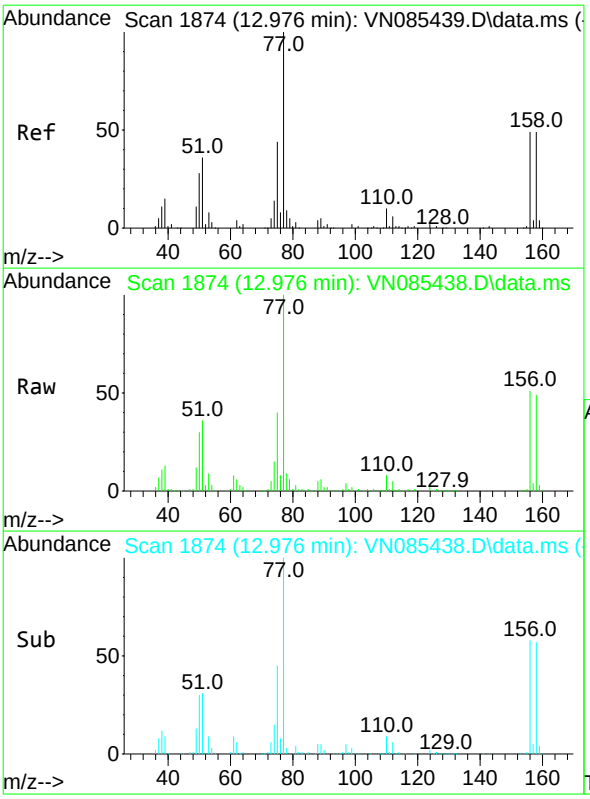




#76
1,2,3-Trichloropropane
Concen: 104.530 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 310115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 192.6 | 109.7 | 329.2 |






#77
Bromobenzene
Concen: 104.200 ug/l
RT: 12.976 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

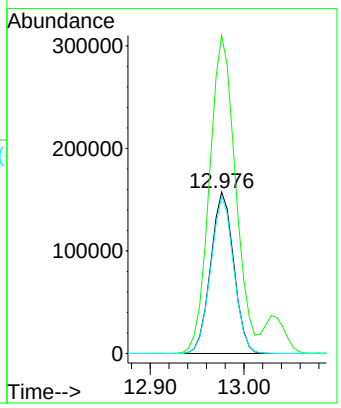
Tgt Ion:156 Resp: 268616

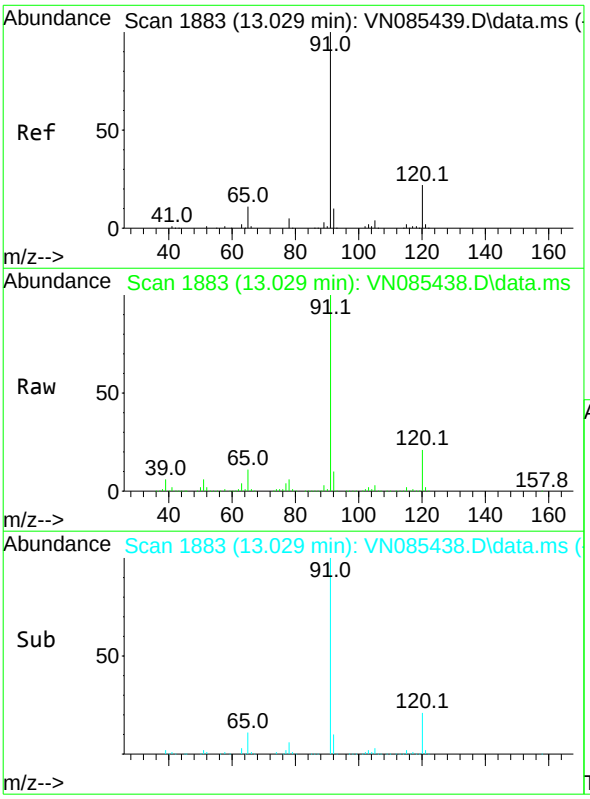
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 222.4 | 114.1 | 342.4 |
| 158 | 96.3 | 48.9 | 146.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

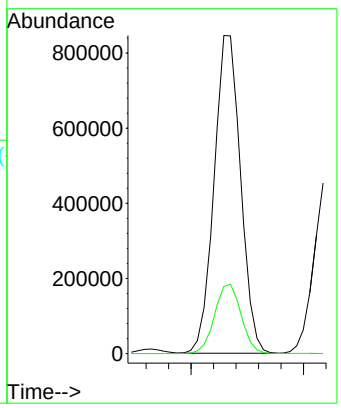


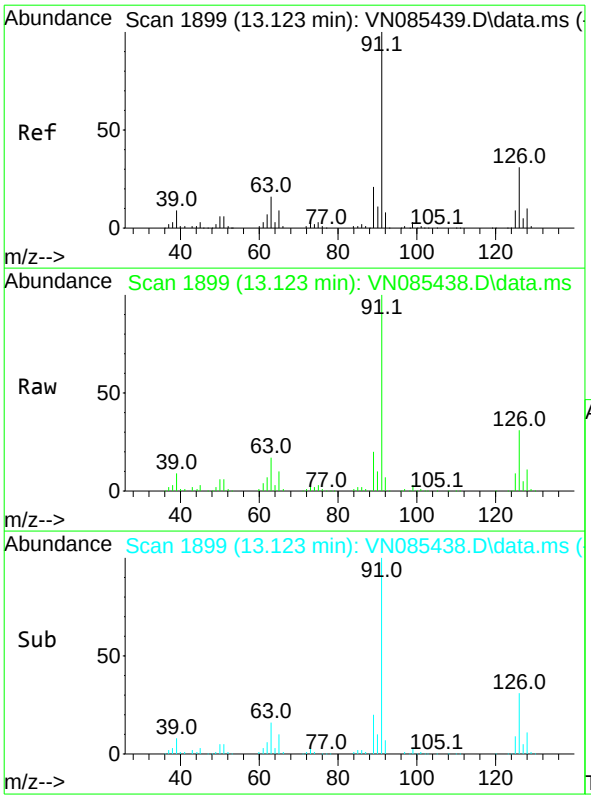




#78
n-propylbenzene
Concen: 118.600 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 91 Resp: 1385353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.8 | 10.9 | 32.6 |






#79
2-Chlorotoluene
Concen: 108.767 ug/l
RT: 13.123 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

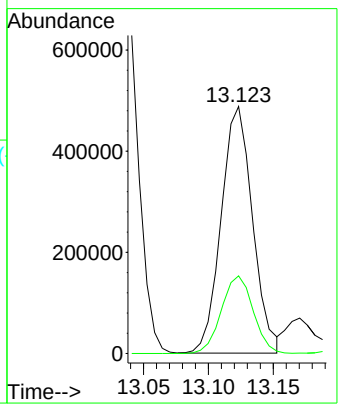
Tgt Ion: 91 Resp: 822258

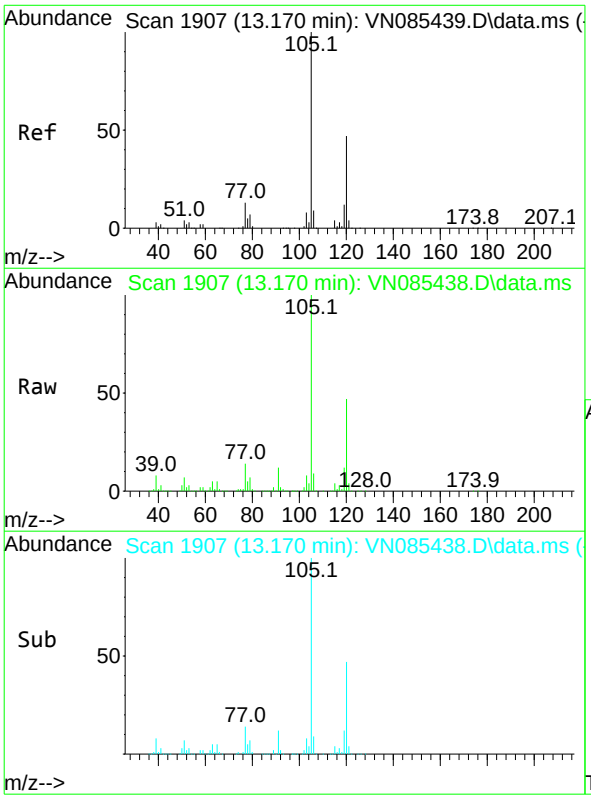
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.8 | 15.7 | 47.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

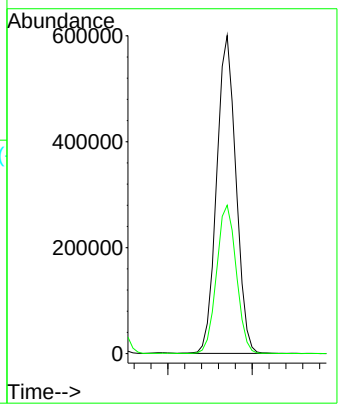


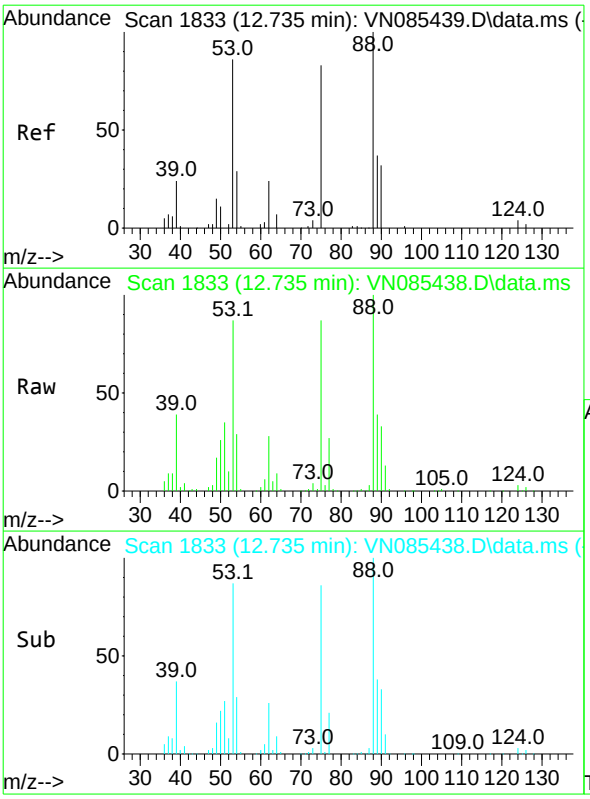




#80
1,3,5-Trimethylbenzene
Concen: 116.938 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:105 Resp: 953066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.8 | 23.9 | 71.7 |






#81
trans-1,4-Dichloro-2-butene
Concen: 111.544 ug/l
RT: 12.735 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

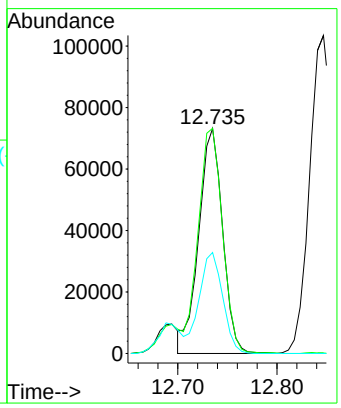
Tgt Ion: 75 Resp: 122508

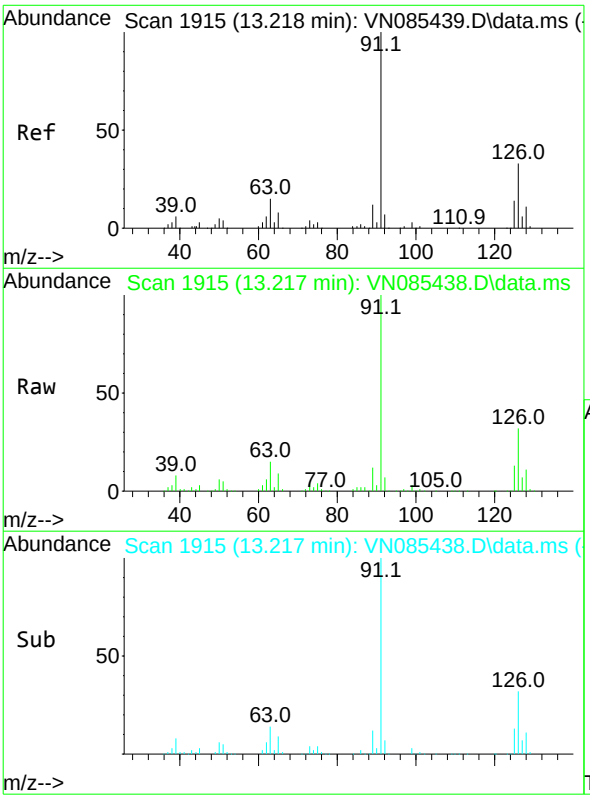
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 100.9 | 95.6 | 143.4 |
| 89 | 44.4 | 37.0 | 55.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

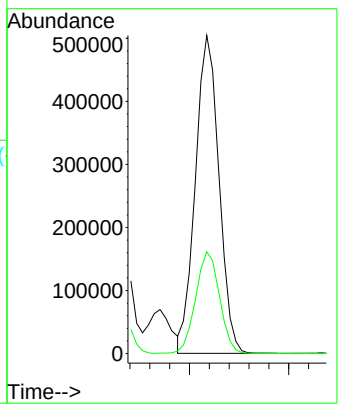


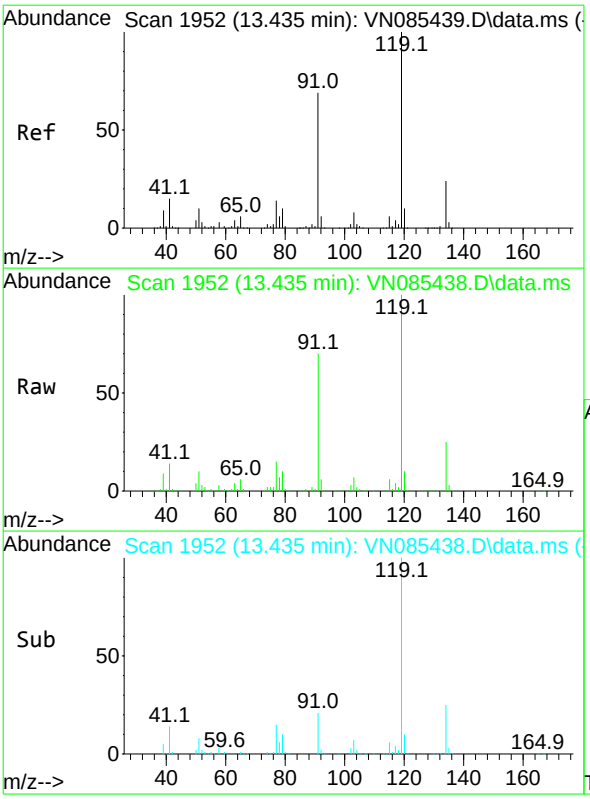




#82
4-Chlorotoluene
Concen: 110.574 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 91 Resp: 832317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.5 | 15.9 | 47.7 |






#83
tert-Butylbenzene
Concen: 116.457 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

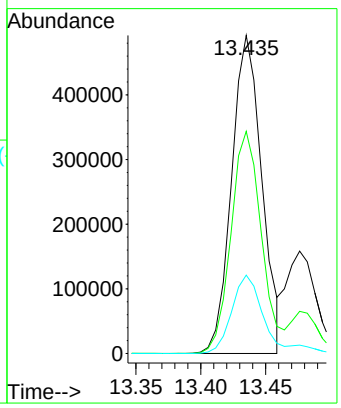
Tgt Ion:119 Resp: 797069

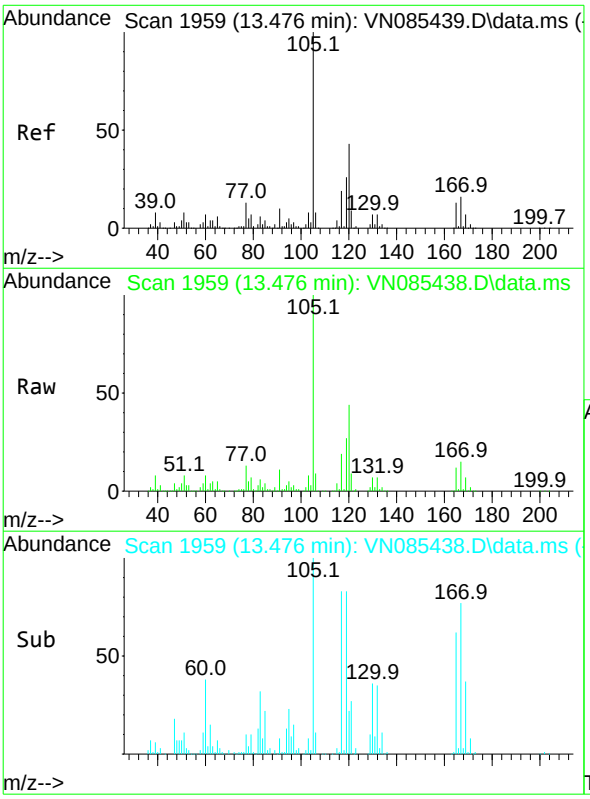
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 70.7 | 35.1 | 105.3 |
| 134 | 26.6 | 12.0 | 36.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

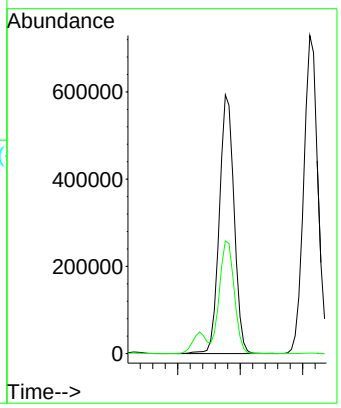


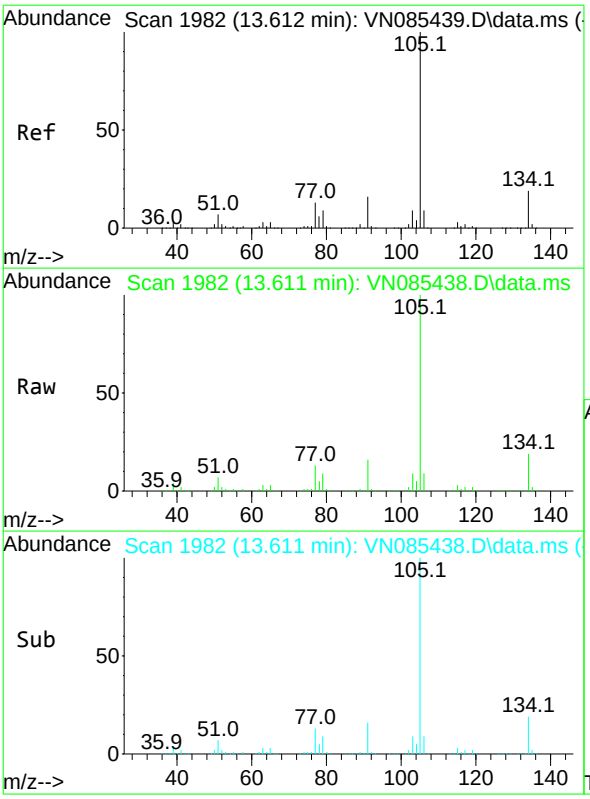




#84
1,2,4-Trimethylbenzene
Concen: 119.625 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:105 Resp: 971729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.4 | 21.6 | 65.0 |






#85
sec-Butylbenzene
Concen: 120.587 ug/l
RT: 13.611 min Scan# 19
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

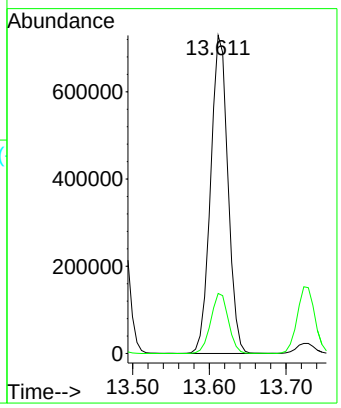
Tgt Ion:105 Resp: 1143885

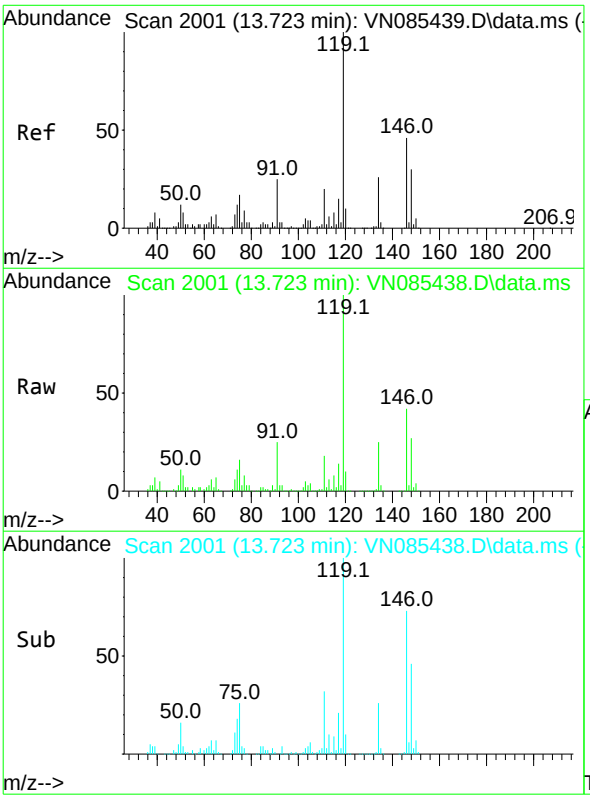
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.2 | 9.7 | 28.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

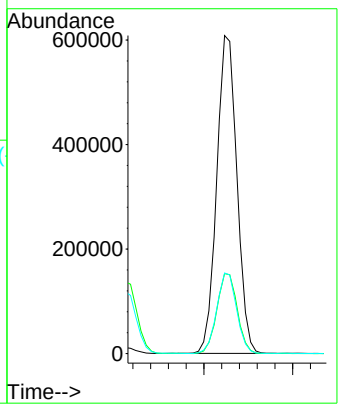


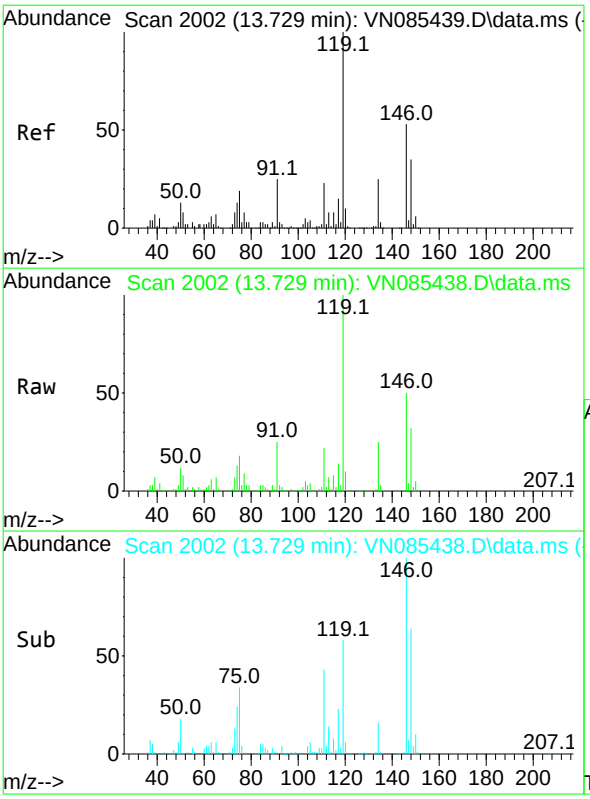




#86
p-Isopropyltoluene
Concen: 100.111 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:119 Resp: 960747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.3 | 12.7 | 38.0 |
| 91 | 25.0 | 12.7 | 38.1 |






#87
1,3-Dichlorobenzene
Concen: 105.943 ug/l
RT: 13.729 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

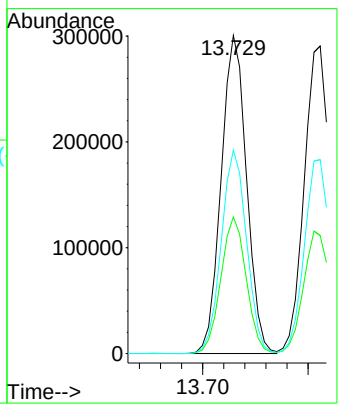
Tgt Ion:146 Resp: 502960

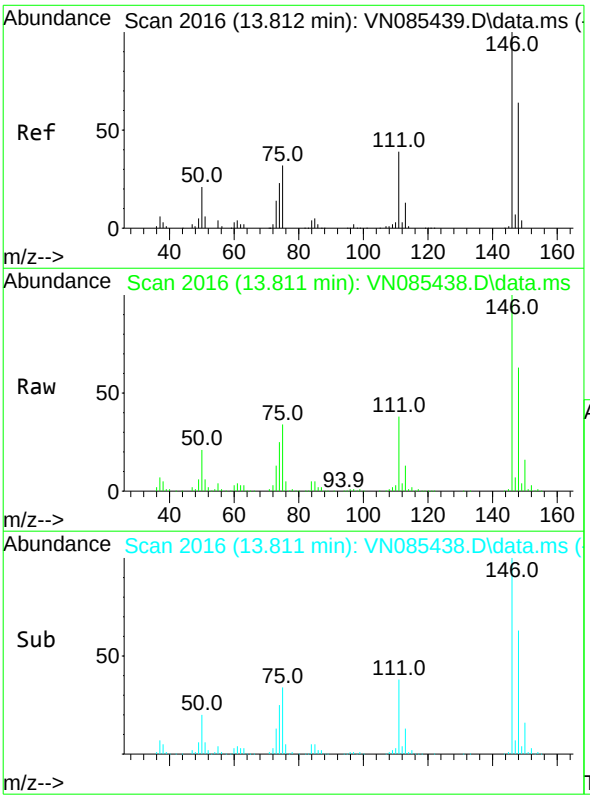
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.8 | 21.4 | 64.3 |
| 148 | 63.6 | 32.3 | 96.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

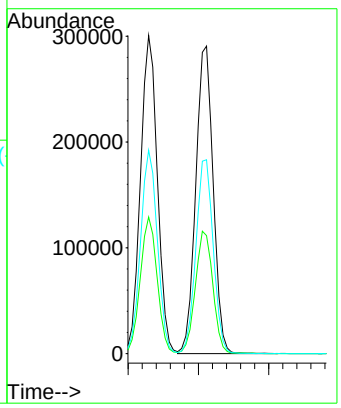


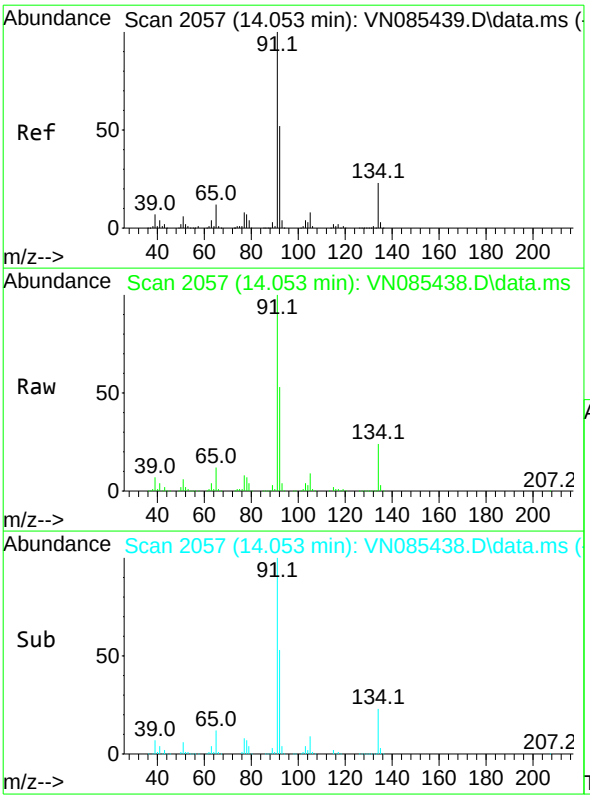




#88
1,4-Dichlorobenzene
Concen: 101.341 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:146 Resp: 498709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.1 | 21.3 | 63.7 |
| 148 | 63.1 | 32.4 | 97.0 |






#89
n-Butylbenzene
Concen: 123.781 ug/l
RT: 14.053 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

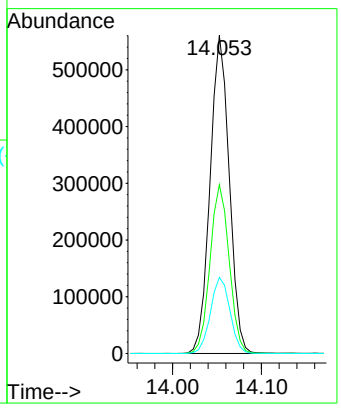
Tgt Ion: 91 Resp: 842368

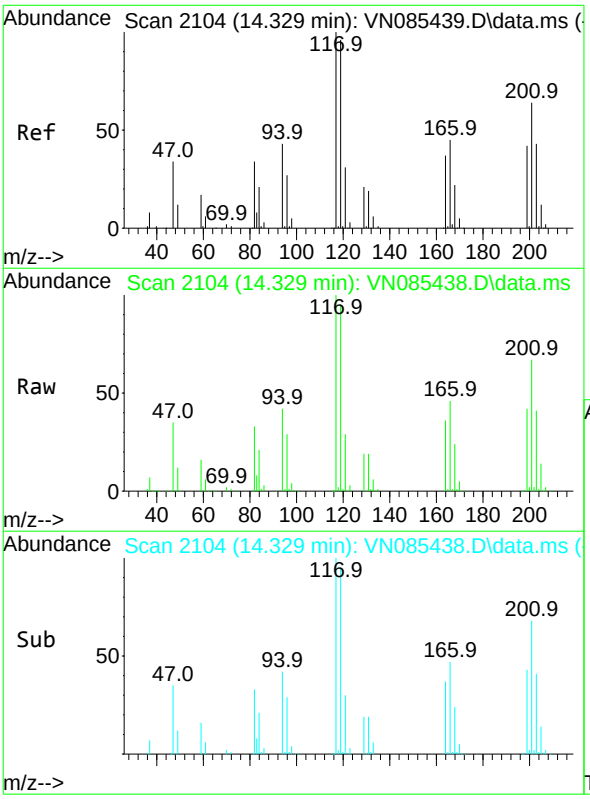
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.8 | 25.8 | 77.3 |
| 134 | 24.3 | 11.7 | 35.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

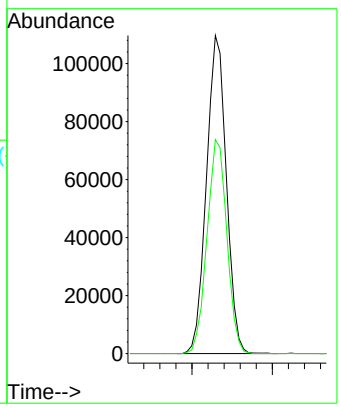


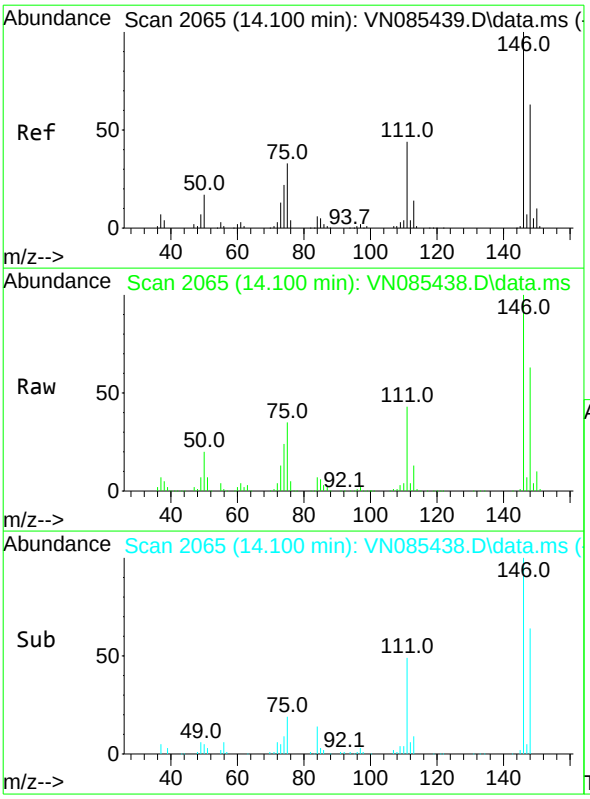




#90
Hexachloroethane
Concen: 104.405 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:117 Resp: 188541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 67.2 | 33.7 | 101.0 |






#91
1,2-Dichlorobenzene
Concen: 99.445 ug/l
RT: 14.100 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

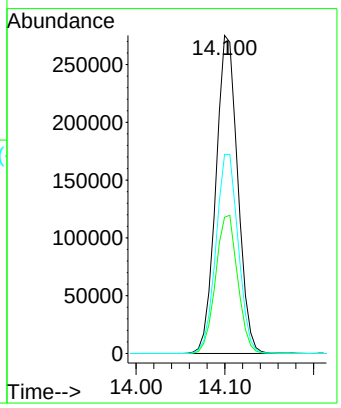
Tgt Ion:146 Resp: 470919

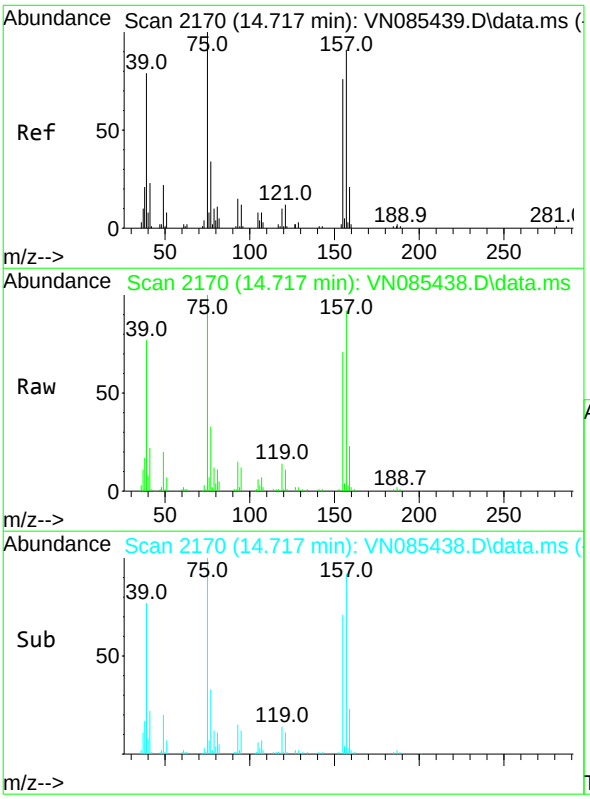
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.9 | 21.7 | 65.1 |
| 148 | 64.0 | 31.4 | 94.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

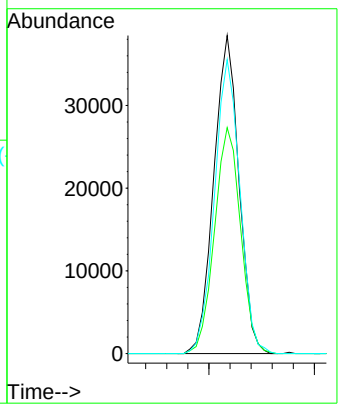


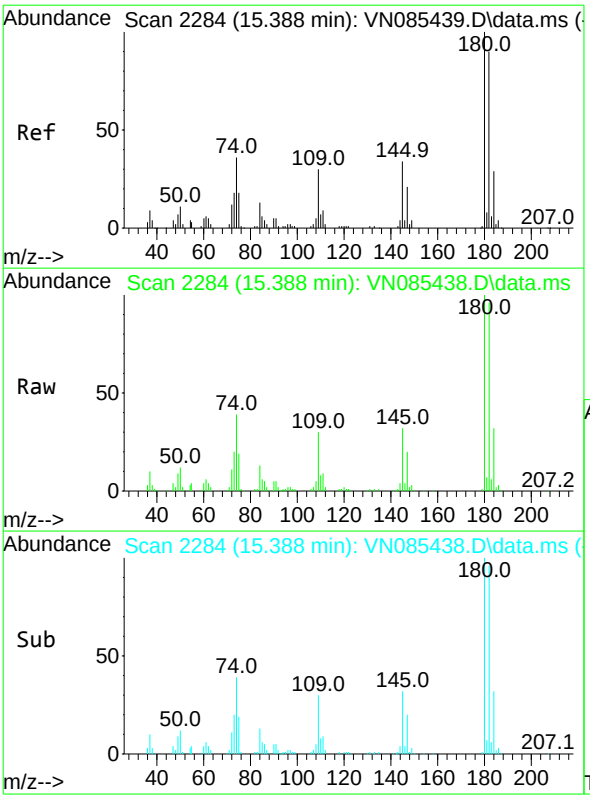




#92
1,2-Dibromo-3-Chloropropane
Concen: 100.313 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 63846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 73.5 | 36.4 | 109.2 |
| 157 | 93.0 | 45.4 | 136.1 |






#93
1,2,4-Trichlorobenzene
Concen: 113.946 ug/l
RT: 15.388 min Scan# 22
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

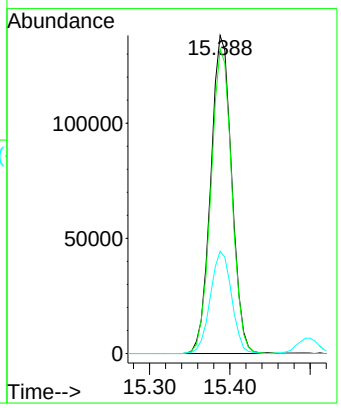
Tgt Ion:180 Resp: 250787

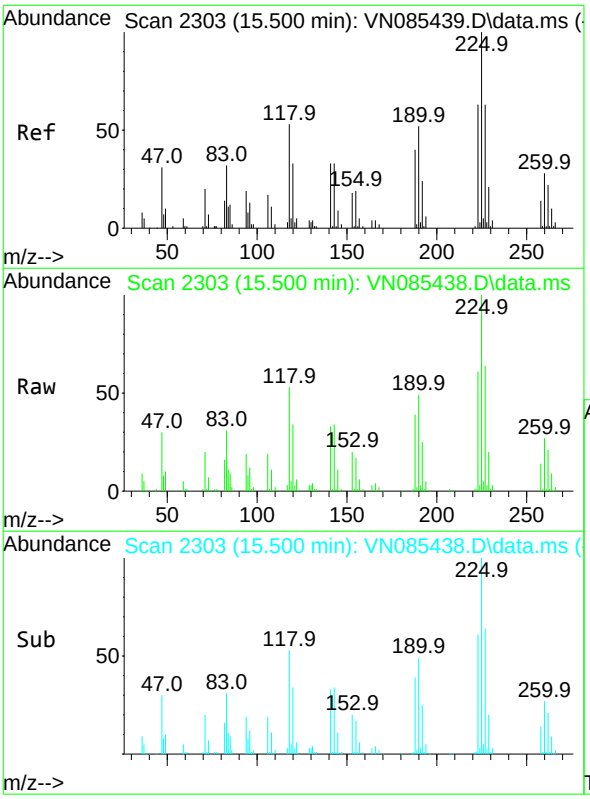
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.9 | 46.8 | 140.3 |
| 145 | 32.6 | 16.0 | 48.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

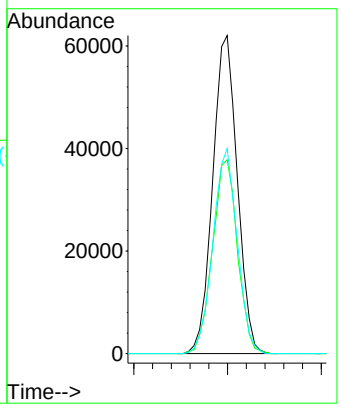


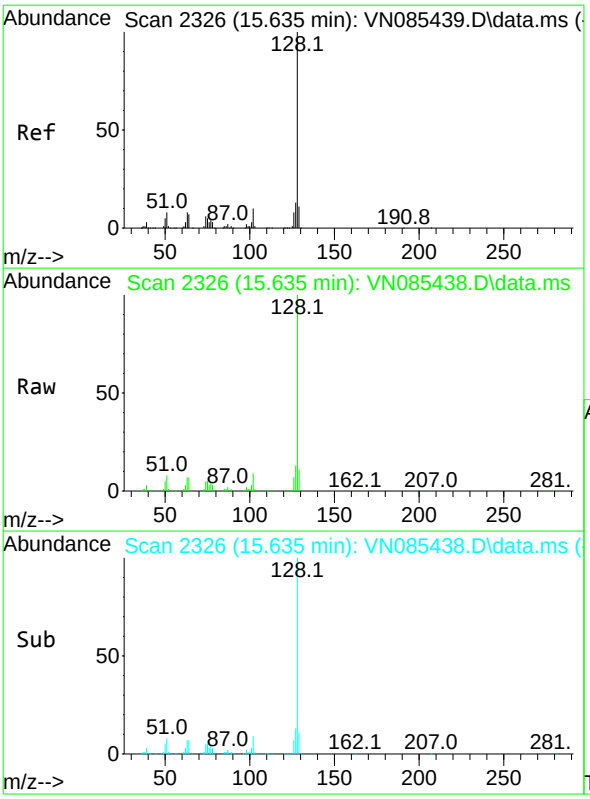




#94
Hexachlorobutadiene
Concen: 96.619 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:225 Resp: 112899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.8 | 30.7 | 92.1 |
| 227 | 63.6 | 30.9 | 92.5 |






#95
Naphthalene
Concen: 115.234 ug/l
RT: 15.635 min Scan# 23
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

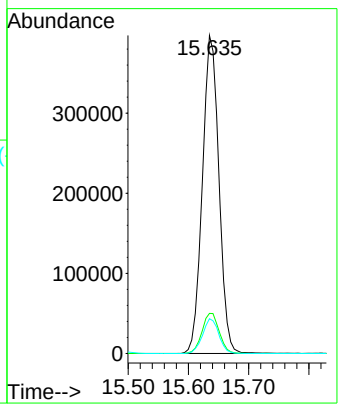
Tgt Ion:128 Resp: 756816

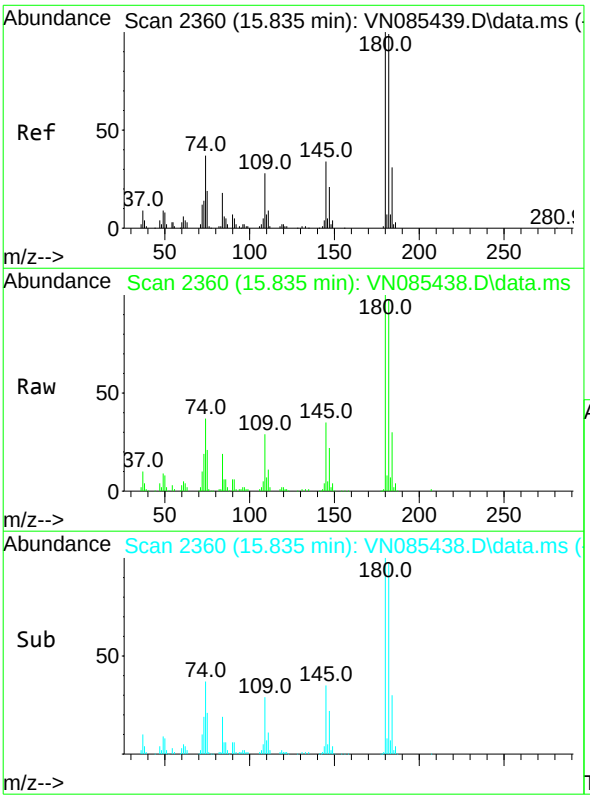
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.1 | 10.6 | 16.0 |
| 129 | 10.8 | 8.8 | 13.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

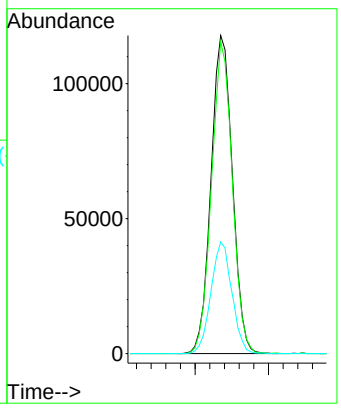



#96
1,2,3-Trichlorobenzene
Concen: 107.256 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:180 Resp: 238860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 47.4 | 142.2 |
| 145 | 34.3 | 16.9 | 50.7 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 199403 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.094 | 114 | 339872 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 297366 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 146624 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.571 | 65 | 165768 | 51.500 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 103.000% | | | |
| 35) Dibromofluoromethane | 8.159 | 113 | 121554 | 51.552 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 103.100% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 430698 | 51.411 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 102.820% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 152568 | 53.239 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 106.480% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 125504 | 46.486 | ug/l | 100 |
| 3) Chloromethane | 2.359 | 50 | 135631 | 46.398 | ug/l | 100 |
| 4) Vinyl Chloride | 2.512 | 62 | 136831 | 46.569 | ug/l | 100 |
| 5) Bromomethane | 2.953 | 94 | 83199 | 46.877 | ug/l | 100 |
| 6) Chloroethane | 3.118 | 64 | 84517 | 45.371 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.501 | 101 | 198726 | 46.613 | ug/l | 100 |
| 8) Diethyl Ether | 3.953 | 74 | 71764 | 48.726 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 108081 | 45.010 | ug/l | 100 |
| 10) Methyl Iodide | 4.589 | 142 | 143383 | 52.142 | ug/l | 100 |
| 11) Tert butyl alcohol | 5.512 | 59 | 92841 | 251.894 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 106247 | 49.647 | ug/l | 100 |
| 13) Acrolein | 4.171 | 56 | 139234 | 276.734 | ug/l | 100 |
| 14) Allyl chloride | 5.018 | 41 | 168654 | 48.567 | ug/l | 100 |
| 15) Acrylonitrile | 5.712 | 53 | 296781 | 253.507 | ug/l | 100 |
| 16) Acetone | 4.418 | 43 | 251271 | 241.603 | ug/l | 100 |
| 17) Carbon Disulfide | 4.706 | 76 | 294604 | 44.710 | ug/l | 100 |
| 18) Methyl Acetate | 5.018 | 43 | 157485 | 49.798 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.789 | 73 | 373561 | 53.758 | ug/l | 100 |
| 20) Methylene Chloride | 5.271 | 84 | 125508 | 48.748 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.783 | 96 | 110684 | 48.395 | ug/l | 100 |
| 22) Diisopropyl ether | 6.665 | 45 | 406253 | 52.707 | ug/l | 100 |
| 23) Vinyl Acetate | 6.594 | 43 | 1491031 | 275.471 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.565 | 63 | 233336 | 49.648 | ug/l | 100 |
| 25) 2-Butanone | 7.477 | 43 | 388457 | 253.815 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.483 | 77 | 186591 | 49.106 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.483 | 96 | 136229 | 50.571 | ug/l | 100 |
| 28) Bromochloromethane | 7.806 | 49 | 108148 | 49.461 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.830 | 42 | 259683 | 267.624 | ug/l | 100 |
| 30) Chloroform | 7.959 | 83 | 234271 | 48.229 | ug/l | 100 |
| 31) Cyclohexane | 8.253 | 56 | 175588 | 42.984 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 202590 | 47.547 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 8.365 | 75 | 157031 | 47.453 | ug/l | 100 |
| 37) Ethyl Acetate | 7.553 | 43 | 165866 | 49.658 | ug/l | 100 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 180199 | 47.564 | ug/l | 100 |
| 39) Methylcyclohexane | 9.600 | 83 | 157234 | 50.562 | ug/l | 100 |
| 40) Benzene | 8.600 | 78 | 492606 | 49.542 | ug/l | 100 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.771 | 41 | 91711 | 52.775 ug/l | 100 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 186065 | 49.685 ug/l | 100 |
| 43) Isopropyl Acetate | 8.683 | 43 | 276228 | 51.611 ug/l | 100 |
| 44) Trichloroethene | 9.347 | 130 | 109953 | 47.506 ug/l | 100 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 126084 | 49.644 ug/l | 100 |
| 46) Dibromomethane | 9.706 | 93 | 90670 | 49.476 ug/l | 100 |
| 47) Bromodichloromethane | 9.882 | 83 | 189915 | 50.867 ug/l | 100 |
| 48) Methyl methacrylate | 9.677 | 41 | 133399 | 55.385 ug/l | 100 |
| 49) 1,4-Dioxane | 9.688 | 88 | 43048 | 1061.334 ug/l | 100 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 836707 | 269.403 ug/l | 100 |
| 52) Toluene | 10.624 | 92 | 295792 | 51.341 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.835 | 75 | 187439 | 53.125 ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 10.306 | 75 | 199771 | 53.006 ug/l | 100 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 115462 | 50.641 ug/l | 100 |
| 56) Ethyl methacrylate | 10.871 | 69 | 184775 | 48.182 ug/l | 100 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 204590 | 51.606 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 409594 | 283.088 ug/l | 100 |
| 59) 2-Hexanone | 11.188 | 43 | 606740 | 277.643 ug/l | 100 |
| 60) Dibromochloromethane | 11.353 | 129 | 140704 | 51.116 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 113541 | 50.028 ug/l | 100 |
| 64) Tetrachloroethene | 11.100 | 164 | 95879 | 47.295 ug/l | 100 |
| 65) Chlorobenzene | 11.888 | 112 | 319992 | 49.121 ug/l | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 116488 | 48.722 ug/l | 100 |
| 67) Ethyl Benzene | 11.959 | 91 | 555322 | 52.339 ug/l | 100 |
| 68) m/p-Xylenes | 12.065 | 106 | 420702 | 107.286 ug/l | 100 |
| 69) o-Xylene | 12.394 | 106 | 202597 | 54.062 ug/l | 100 |
| 70) Styrene | 12.406 | 104 | 348720 | 56.227 ug/l | 100 |
| 71) Bromoform | 12.576 | 173 | 92366 | 53.993 ug/l # | 100 |
| 73) Isopropylbenzene | 12.688 | 105 | 505619 | 51.094 ug/l | 100 |
| 74) N-amyl acetate | 12.488 | 43 | 237870 | 53.478 ug/l | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 167856 | 48.019 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 130866m | 43.982 ug/l | |
| 77) Bromobenzene | 12.976 | 156 | 125800 | 48.657 ug/l | 100 |
| 78) n-propylbenzene | 13.029 | 91 | 609022 | 51.986 ug/l | 100 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 378981 | 49.985 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 13.170 | 105 | 431021 | 52.730 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 57184 | 51.914 ug/l | 100 |
| 82) 4-Chlorotoluene | 13.218 | 91 | 379524 | 50.273 ug/l | 100 |
| 83) tert-Butylbenzene | 13.435 | 119 | 357563 | 52.090 ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.476 | 105 | 442175 | 54.275 ug/l | 100 |
| 85) sec-Butylbenzene | 13.612 | 105 | 501561 | 52.719 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.723 | 119 | 421052 | 49.240 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 229518 | 48.204 ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 13.812 | 146 | 229084 | 46.416 ug/l | 100 |
| 89) n-Butylbenzene | 14.053 | 91 | 364111 | 53.348 ug/l | 100 |
| 90) Hexachloroethane | 14.329 | 117 | 84602 | 46.712 ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 14.100 | 146 | 228024 | 48.012 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 32536 | 50.971 ug/l | 100 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 114468 | 51.857 ug/l | 100 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 53846 | 45.947 ug/l | 100 |
| 95) Naphthalene | 15.635 | 128 | 363882 | 55.243 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 115251 | 51.601 ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

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

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

Quantitation Report (QT Reviewed)

ICAL Form

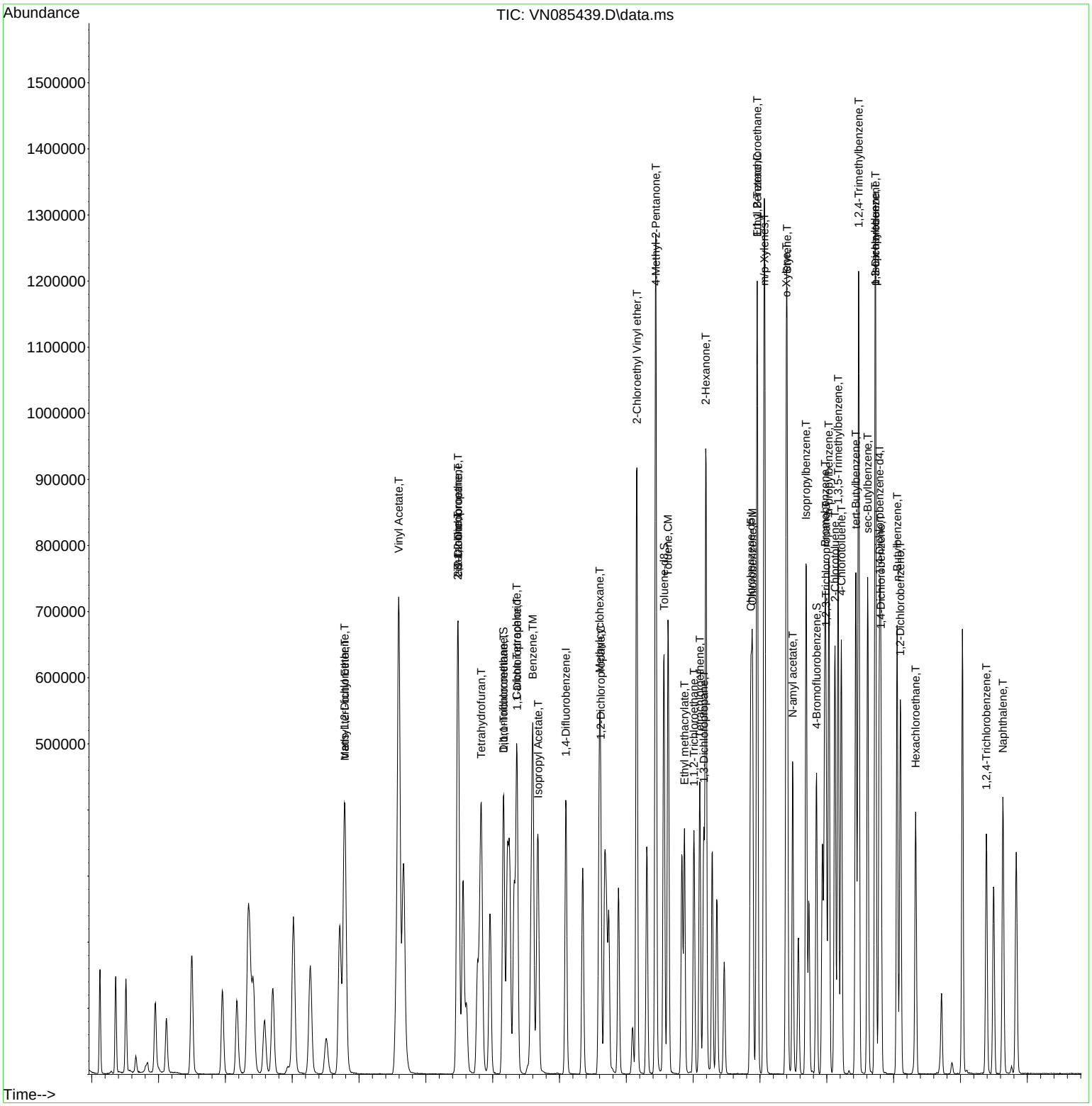
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

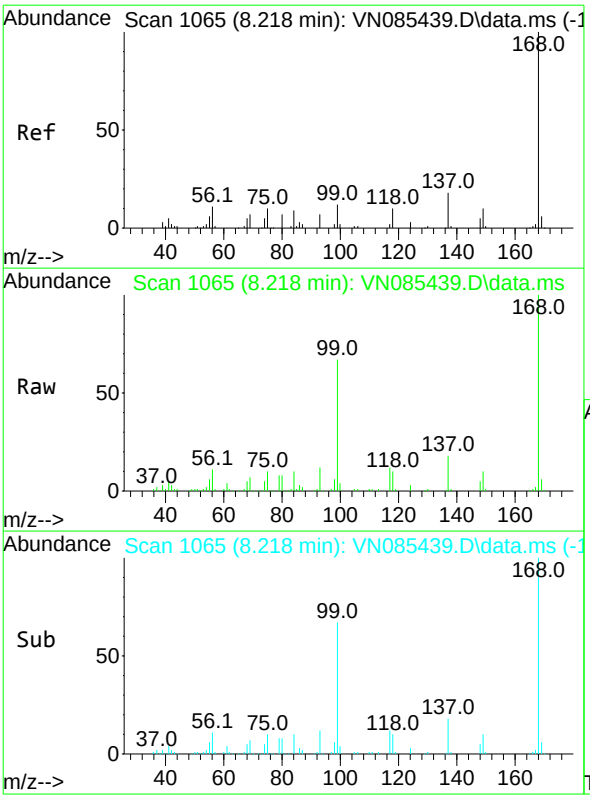
Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

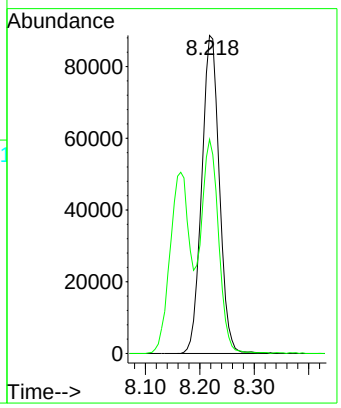
Tgt Ion:168 Resp: 199403

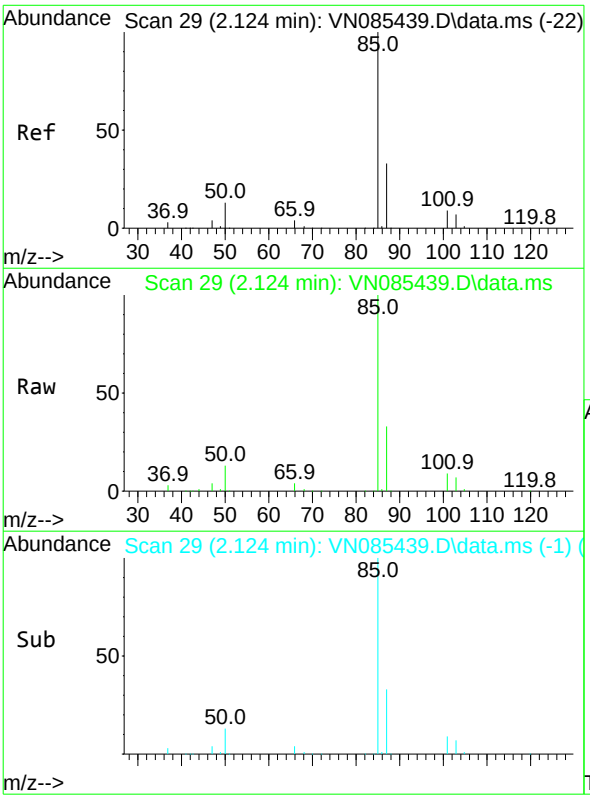
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 67.0 | 53.6 | 80.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

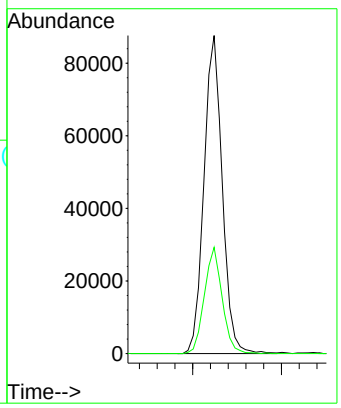


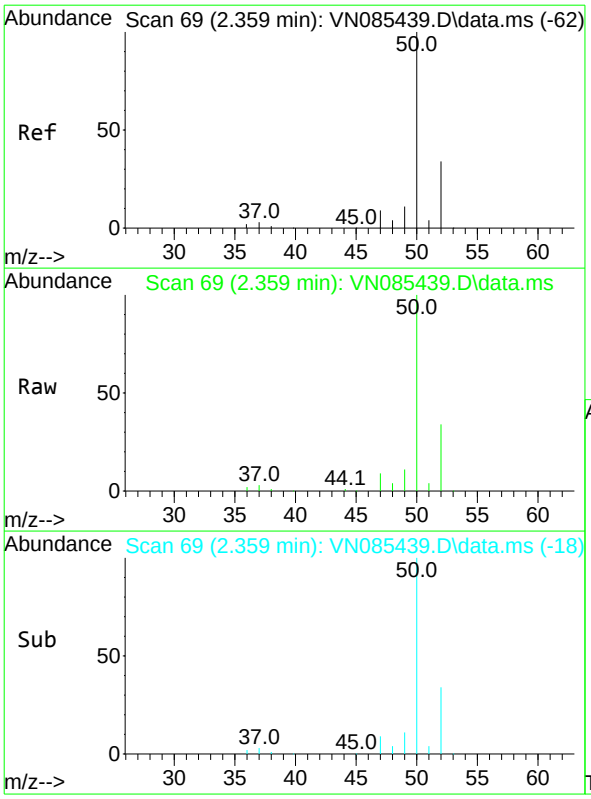




#2
Dichlorodifluoromethane
Concen: 46.486 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 85 Resp: 125504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.4 | 16.7 | 50.1 |






#3
Chloromethane
Concen: 46.398 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

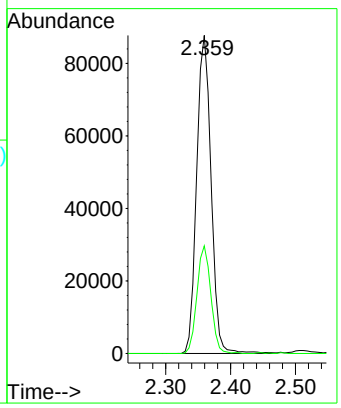
Tgt Ion: 50 Resp: 135631

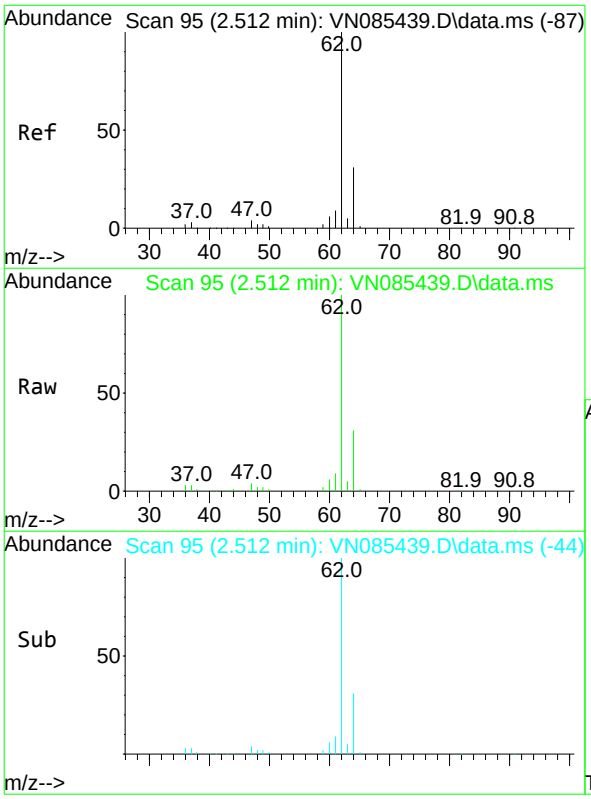
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.8 | 27.0 | 40.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

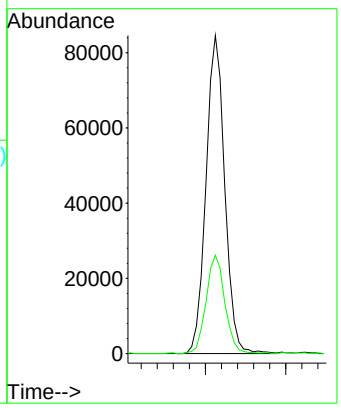


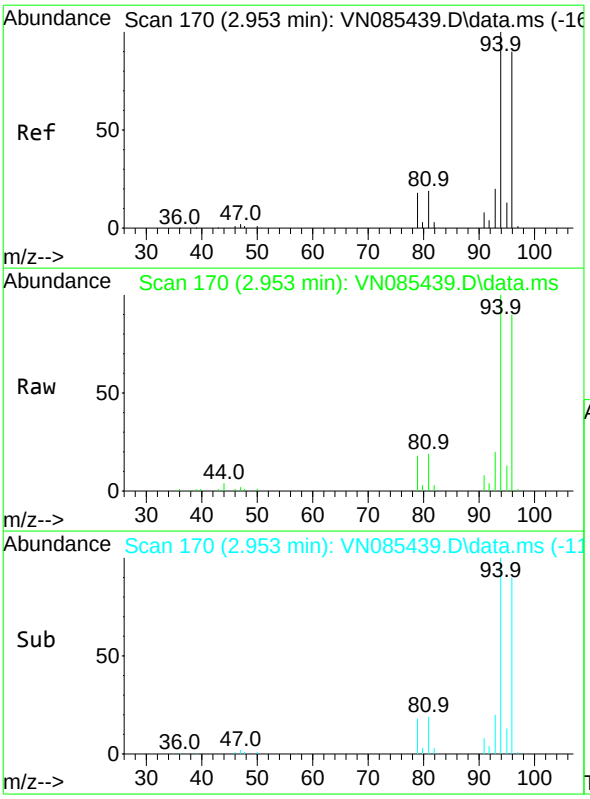




#4
Vinyl Chloride
Concen: 46.569 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 62 Resp: 136831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.0 | 24.8 | 37.2 |






#5
Bromomethane
Concen: 46.877 ug/l
RT: 2.953 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 94 Resp: 83199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 89.7 | 71.8 | 107.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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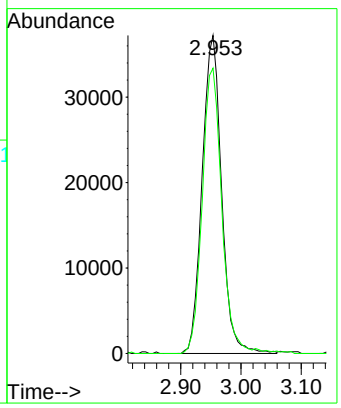
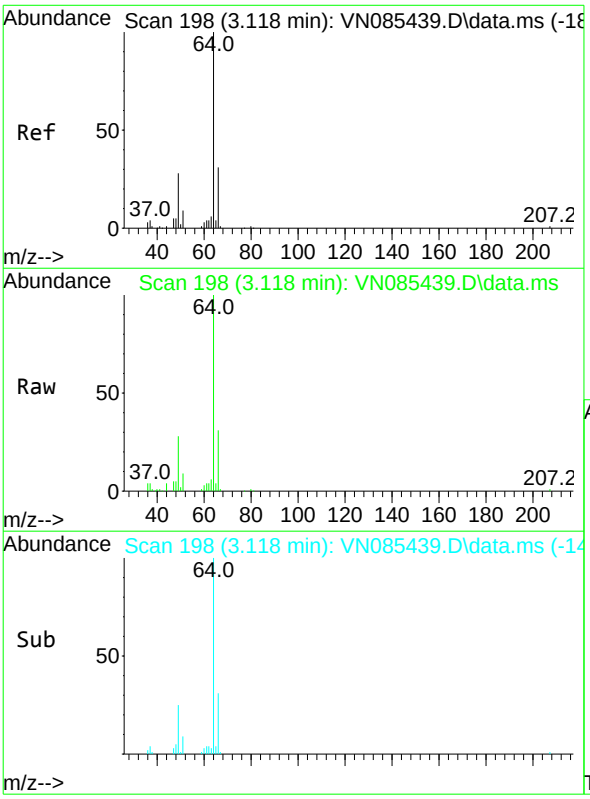
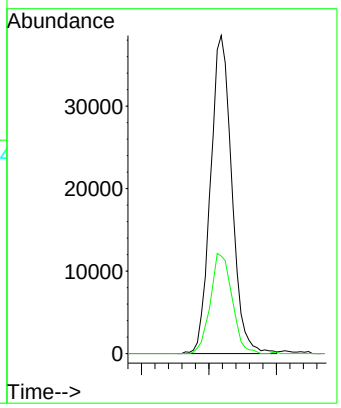


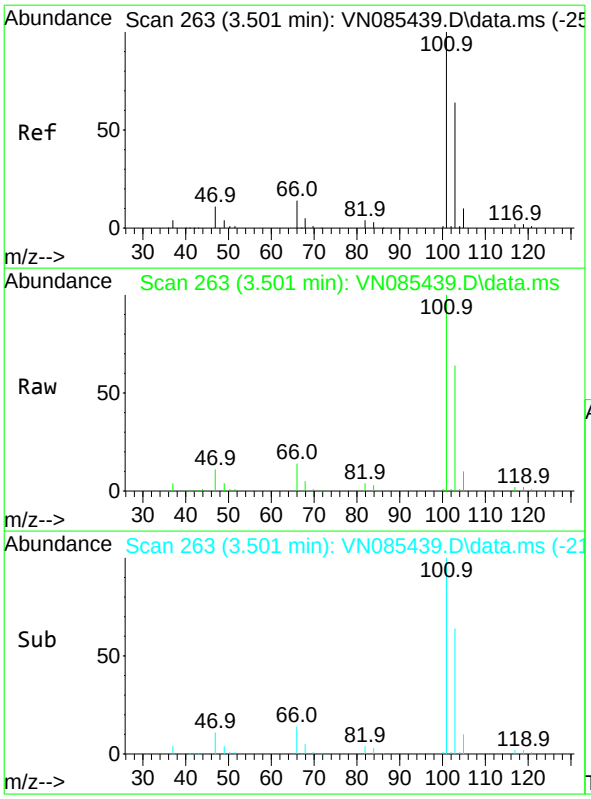




#6
Chloroethane
Concen: 45.371 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 64 Resp: 84517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.7 | 24.6 | 36.8 |






#7
Trichlorofluoromethane
Concen: 46.613 ug/l
RT: 3.501 min Scan# 26
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

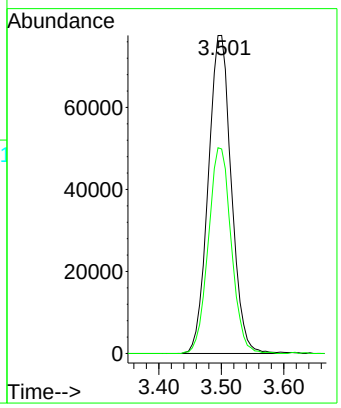
Tgt Ion:101 Resp: 198726

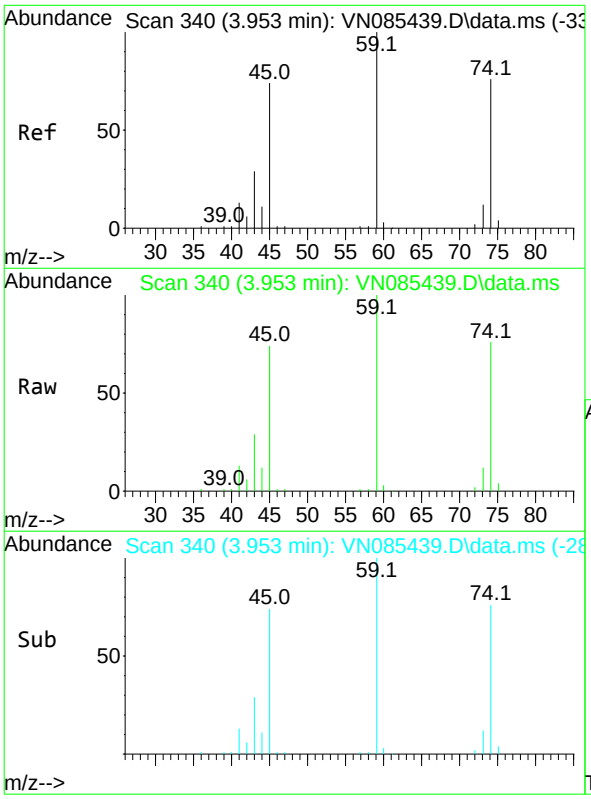
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.3 | 51.4 | 77.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

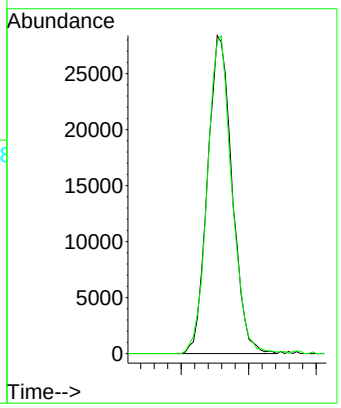


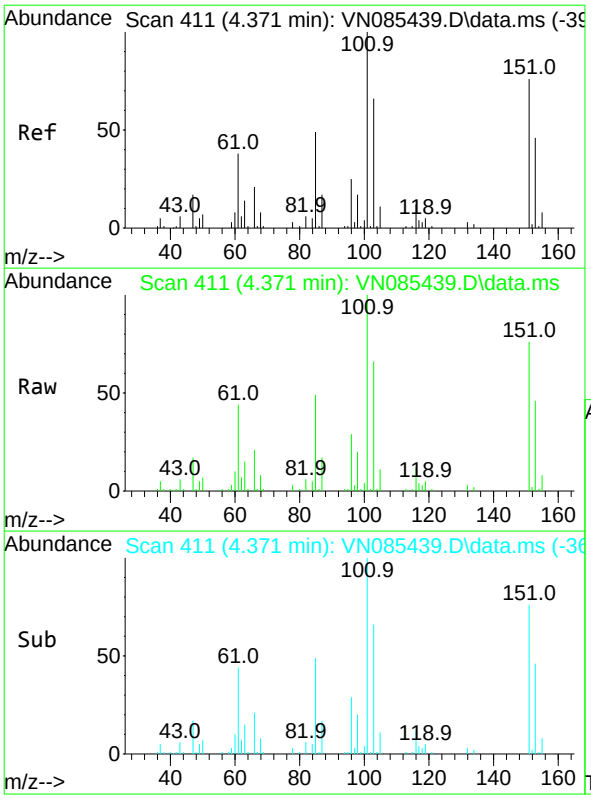




#8
Diethyl Ether
Concen: 48.726 ug/l
RT: 3.953 min Scan# 340
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 74 Resp: 71764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 99.4 | 49.7 | 149.1 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.010 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:101 Resp: 108081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.3 | 37.8 | 56.8 |
| 151 | 73.5 | 58.8 | 88.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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Reviewed By :John Carlone 01/15/2025
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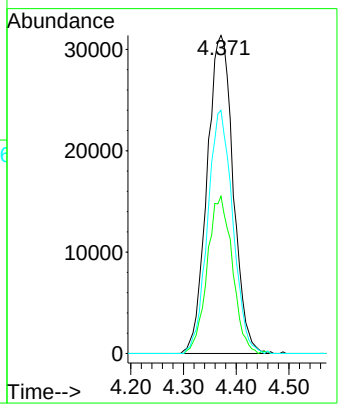
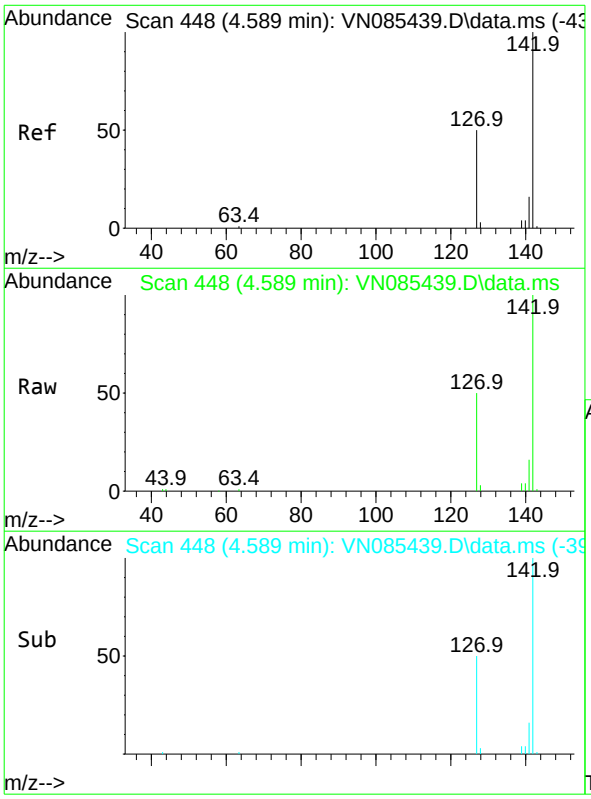
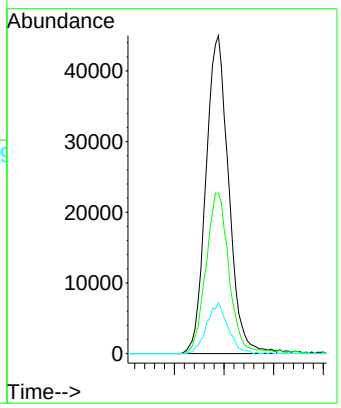


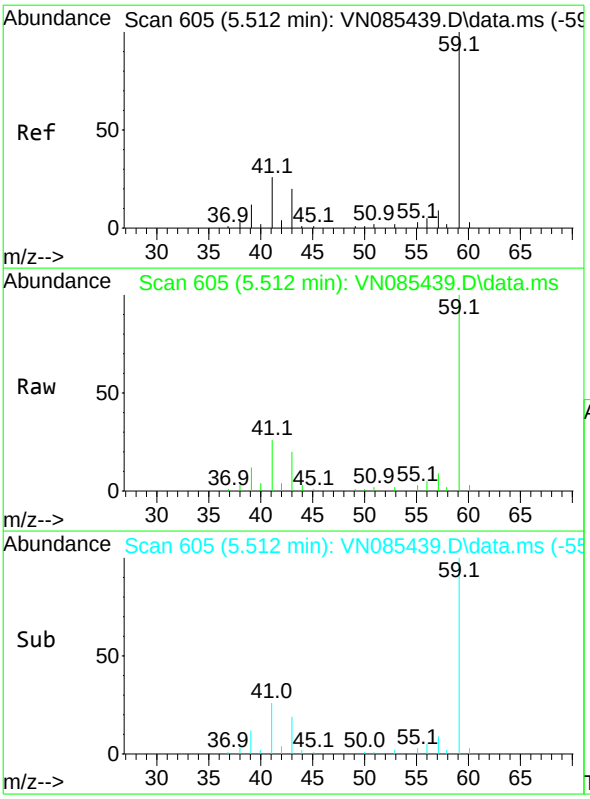




#10
Methyl Iodide
Concen: 52.142 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:142 Resp: 143383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 50.4 | 40.3 | 60.5 |
| 141 | 16.0 | 12.8 | 19.2 |






#11
Tert butyl alcohol
Concen: 251.894 ug/l
RT: 5.512 min Scan# 60
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

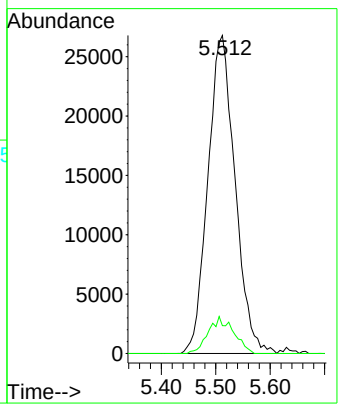
Tgt Ion: 59 Resp: 92841

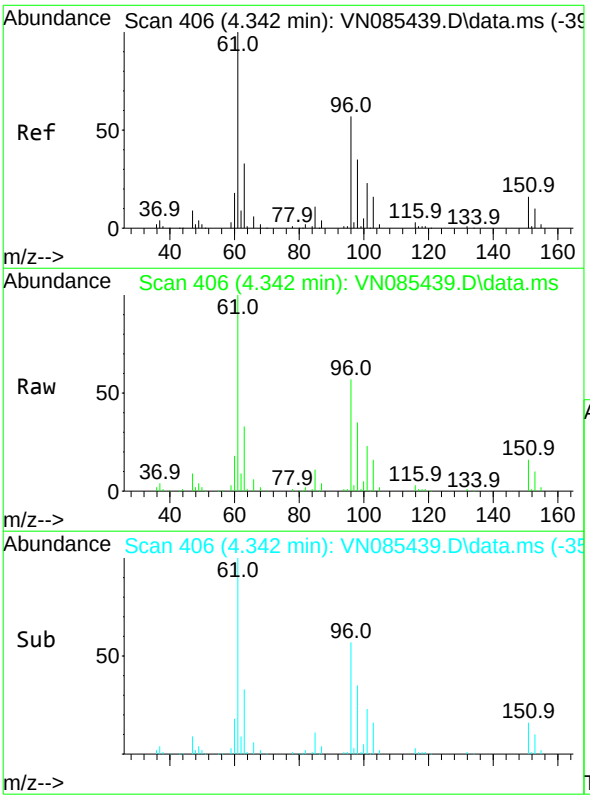
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.6 | 13.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

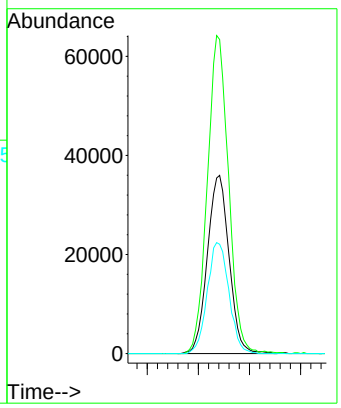


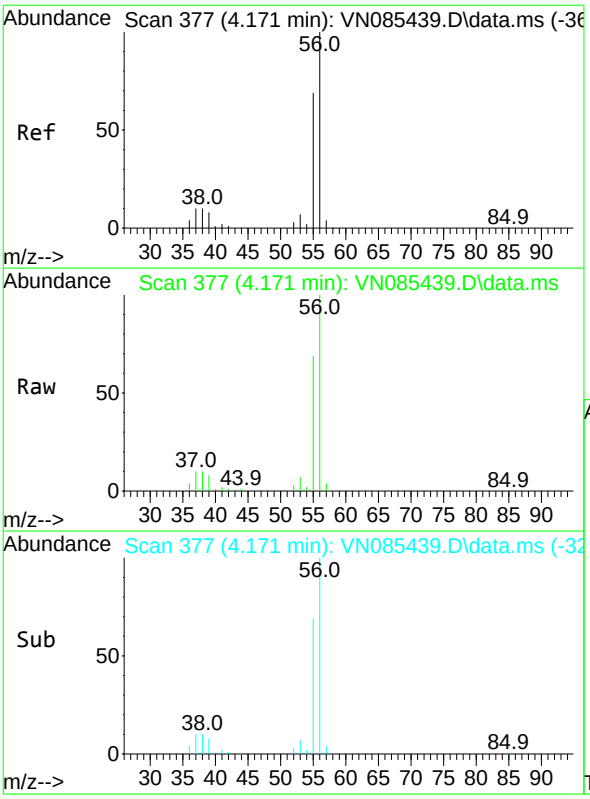




#12
1,1-Dichloroethene
Concen: 49.647 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 96 Resp: 106247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 176.2 | 141.0 | 211.4 |
| 98 | 61.3 | 49.0 | 73.6 |






#13
Acrolein
Concen: 276.734 ug/l
RT: 4.171 min Scan# 37
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

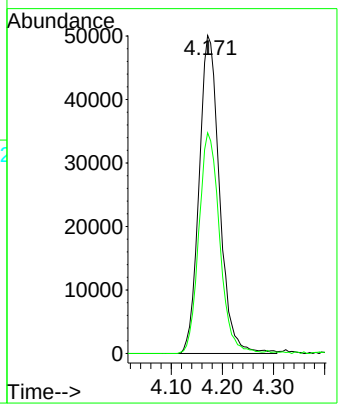
Tgt Ion: 56 Resp: 139234

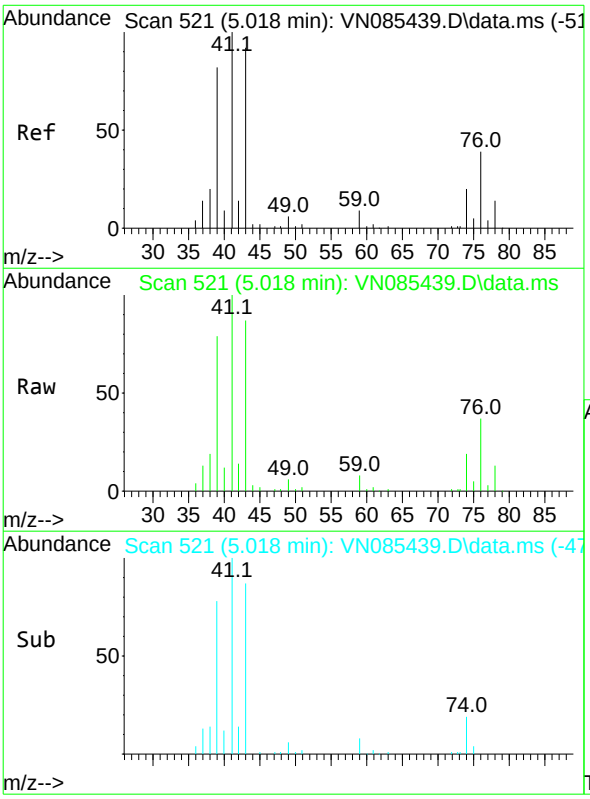
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.4 | 56.3 | 84.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

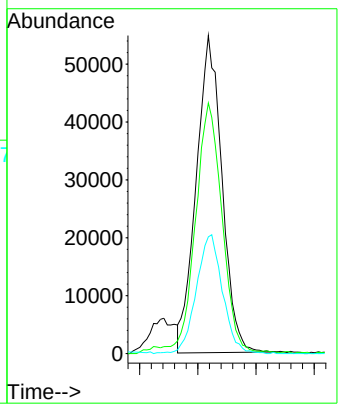


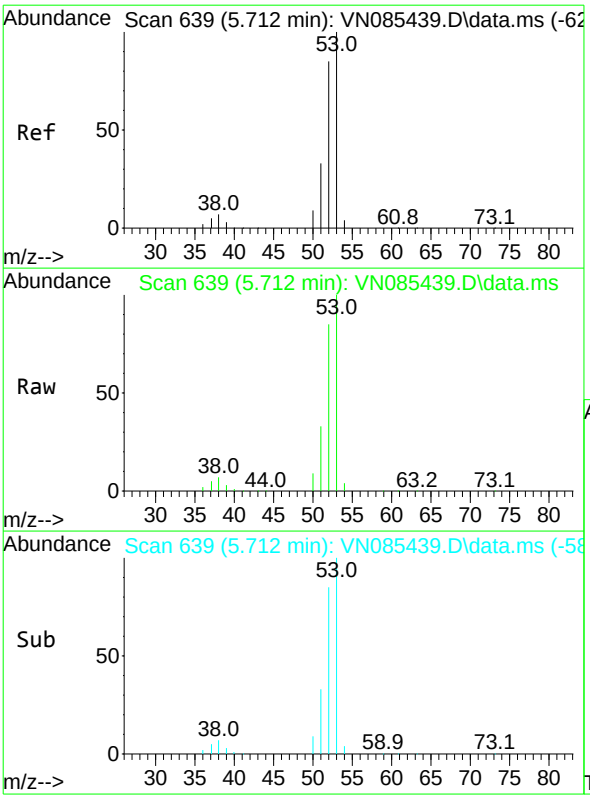




#14
Allyl chloride
Concen: 48.567 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 41 Resp: 168654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 80.5 | 64.4 | 96.6 |
| 76 | 38.1 | 30.5 | 45.7 |






#15
Acrylonitrile
Concen: 253.507 ug/l
RT: 5.712 min Scan# 63
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 53 Resp: 296781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.9 | 65.5 | 98.3 |
| 51 | 37.3 | 29.8 | 44.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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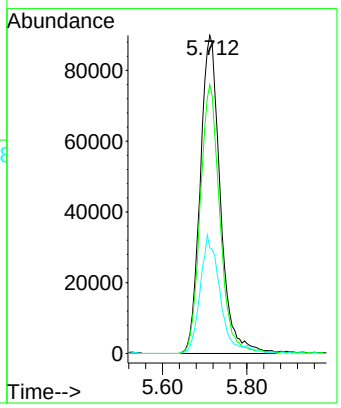
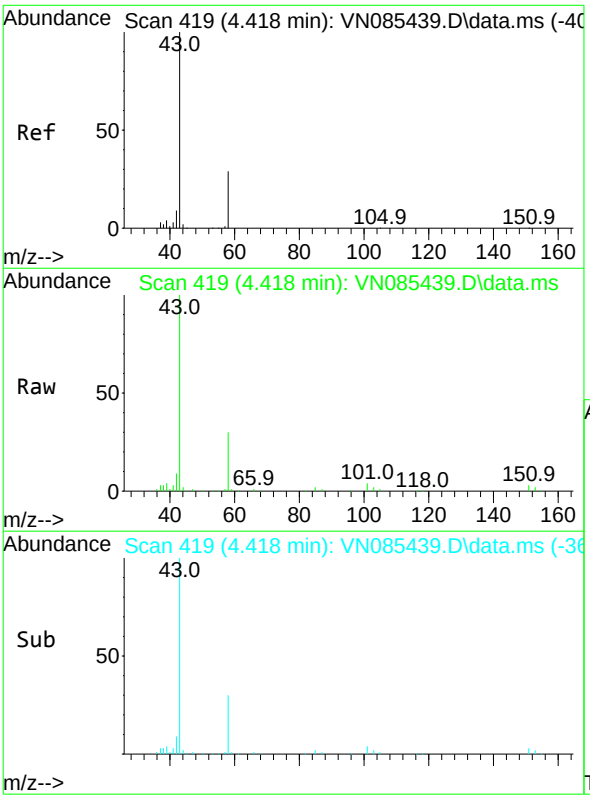
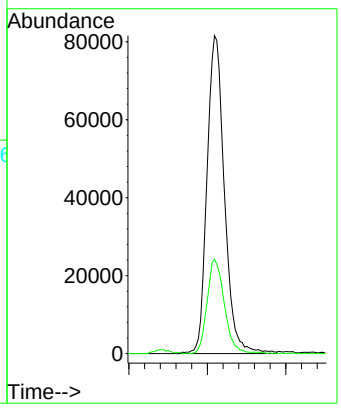


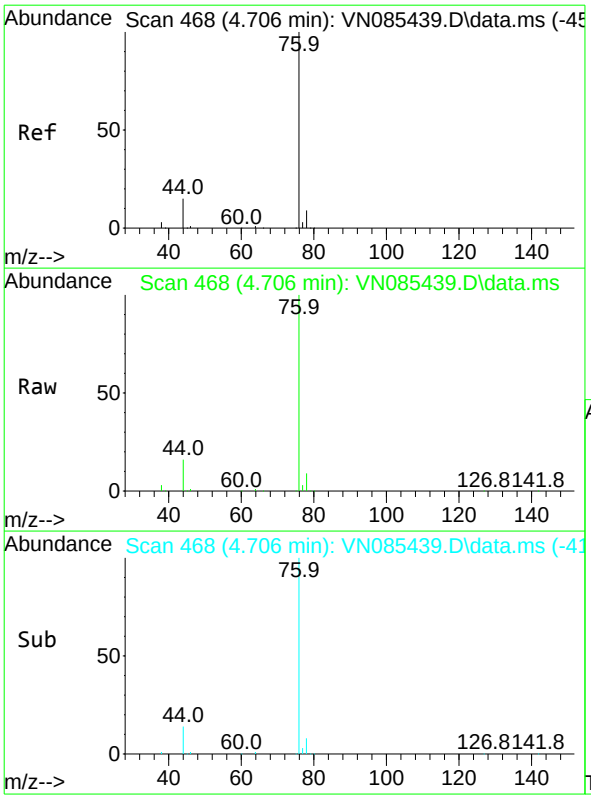




#16
Acetone
Concen: 241.603 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 251271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.7 | 23.8 | 35.6 |






#17
Carbon Disulfide
Concen: 44.710 ug/l
RT: 4.706 min Scan# 46
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 76 Resp: 294604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.6 | 6.9 | 10.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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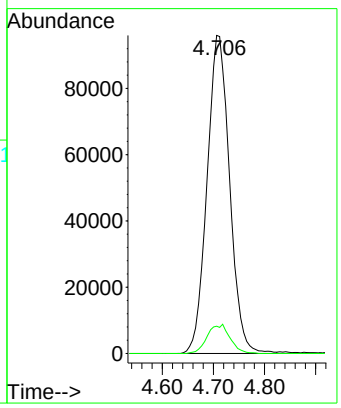
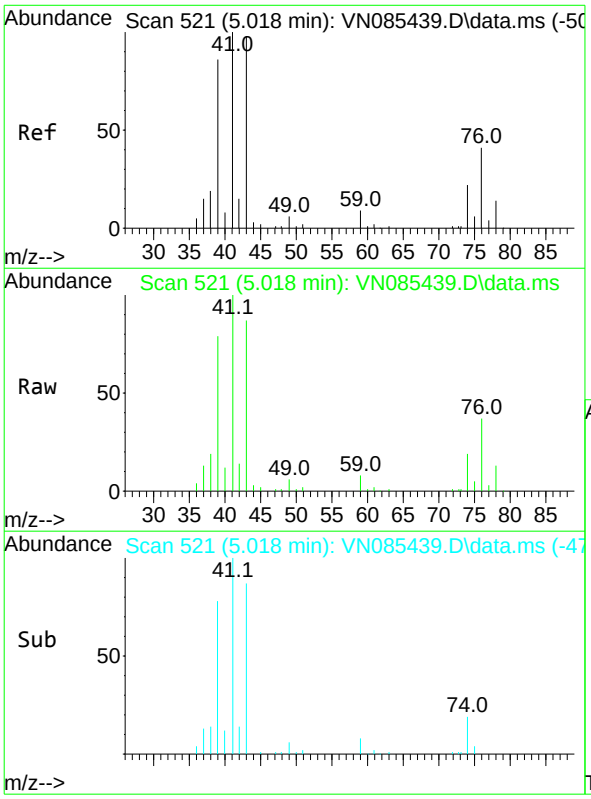
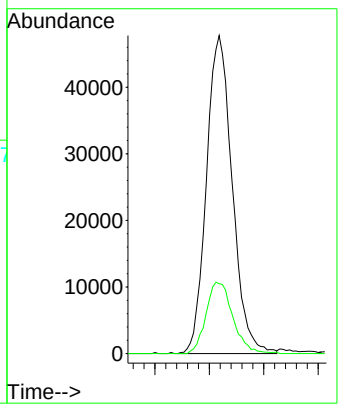


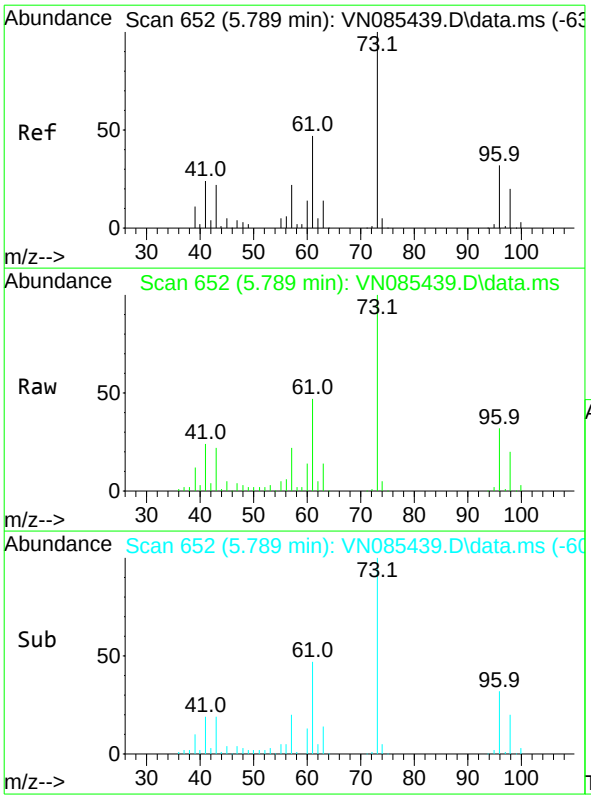




#18
Methyl Acetate
Concen: 49.798 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 157485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.3 | 18.6 | 28.0 |






#19
Methyl tert-butyl Ether
Concen: 53.758 ug/l
RT: 5.789 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 73 Resp: 373561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.3 | 17.8 | 26.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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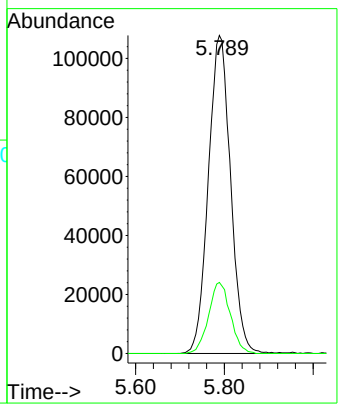
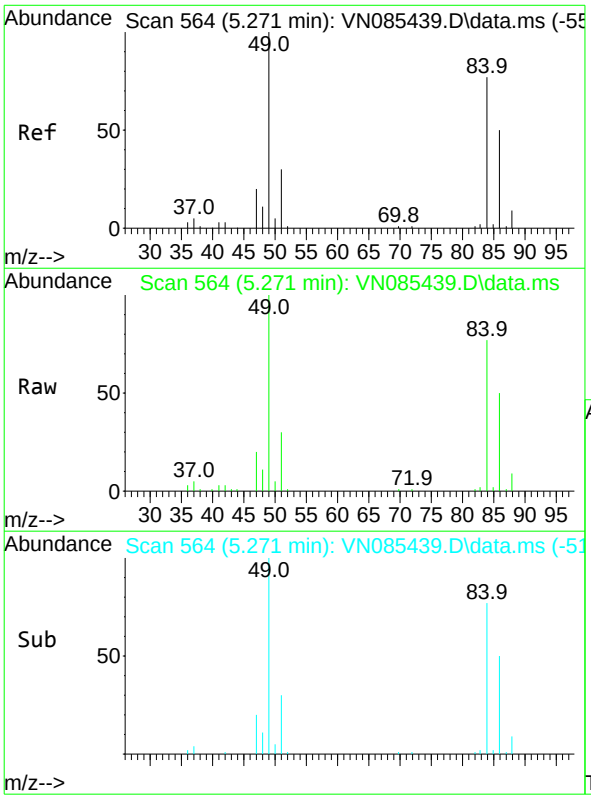
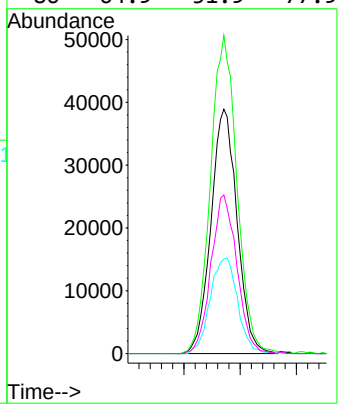


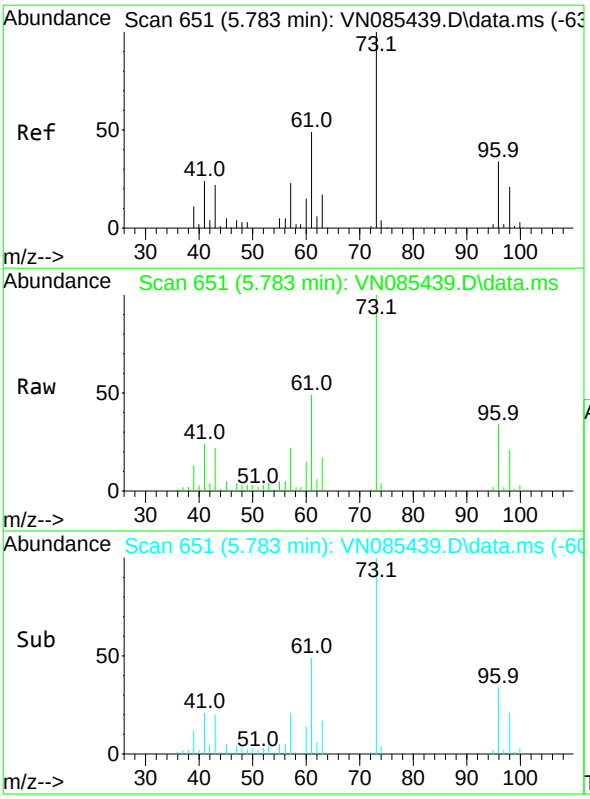




#20
Methylene Chloride
Concen: 48.748 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 84 Resp: 125508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 130.1 | 104.1 | 156.1 |
| 51 | 38.7 | 31.0 | 46.4 |
| 86 | 64.9 | 51.9 | 77.9 |






#21
trans-1,2-Dichloroethene
Concen: 48.395 ug/l
RT: 5.783 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

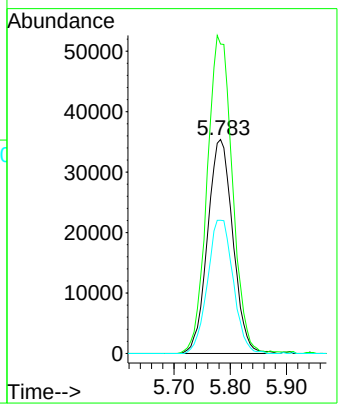
Tgt Ion: 96 Resp: 110684

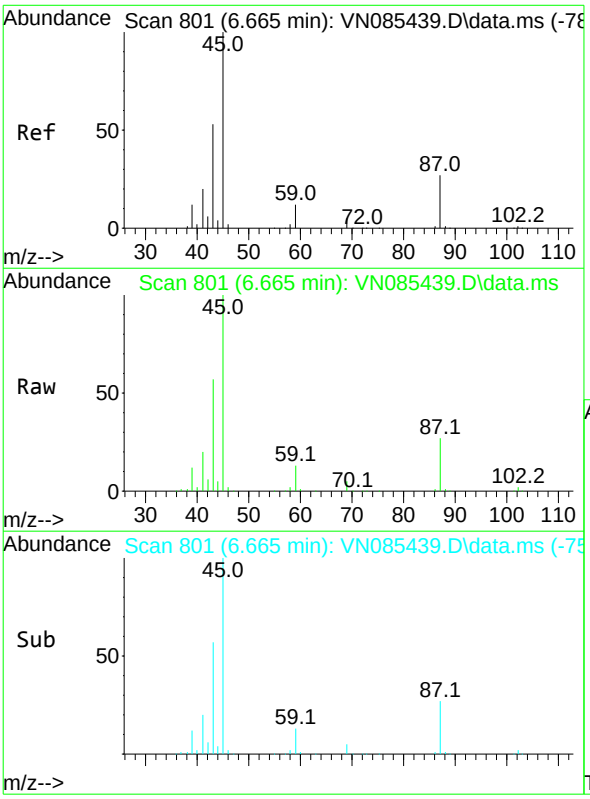
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.6 | 115.7 | 173.5 |
| 98 | 62.3 | 49.8 | 74.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

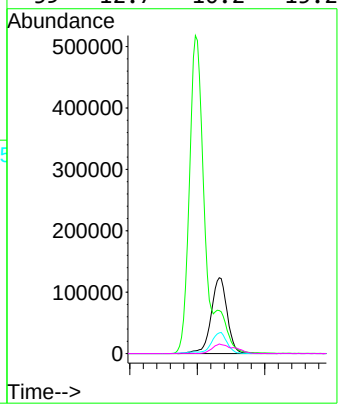


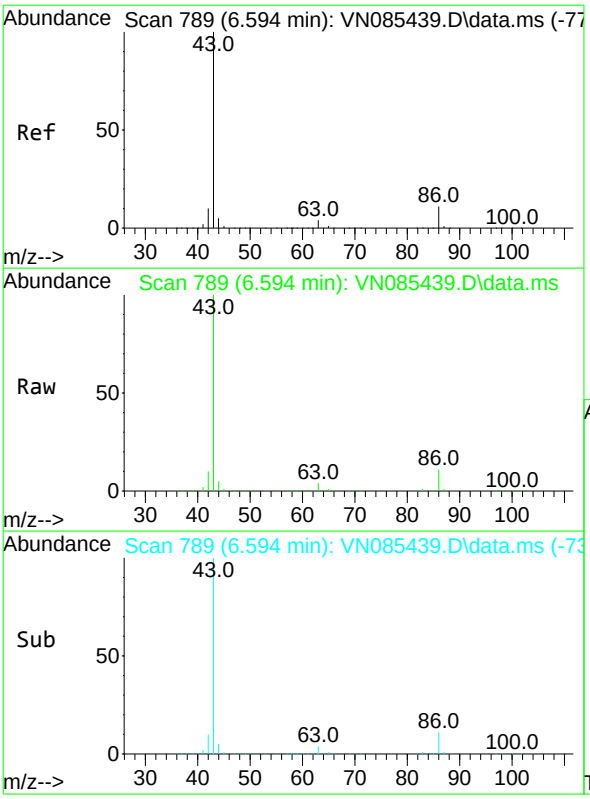




#22
Diisopropyl ether
Concen: 52.707 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 45 Resp: 406253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 56.3 | 45.0 | 67.6 |
| 87 | 27.3 | 21.8 | 32.8 |
| 59 | 12.7 | 10.2 | 15.2 |






#23
Vinyl Acetate
Concen: 275.471 ug/l
RT: 6.594 min Scan# 78
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

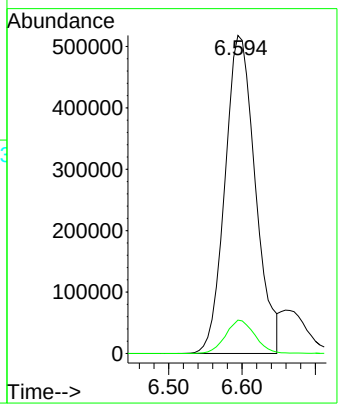
Tgt Ion: 43 Resp: 1491031

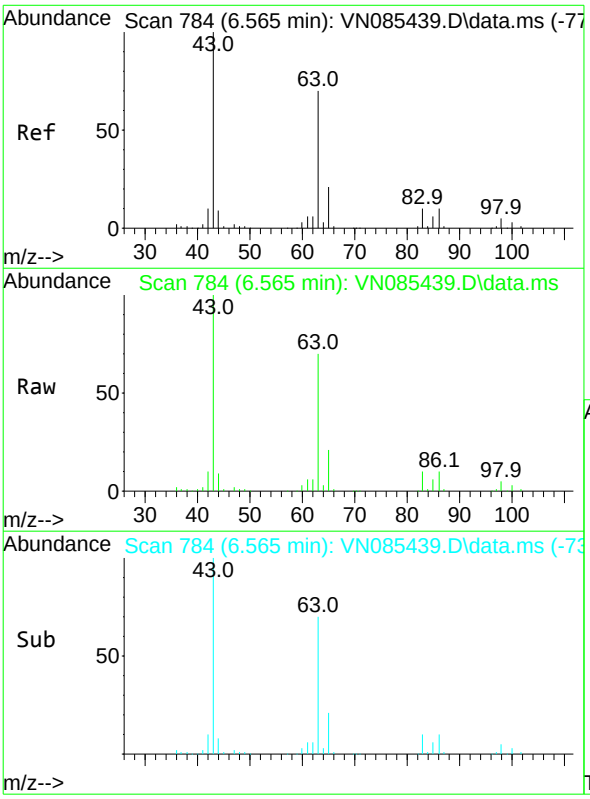
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.5 | 8.4 | 12.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

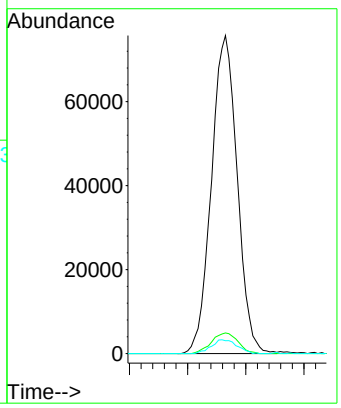


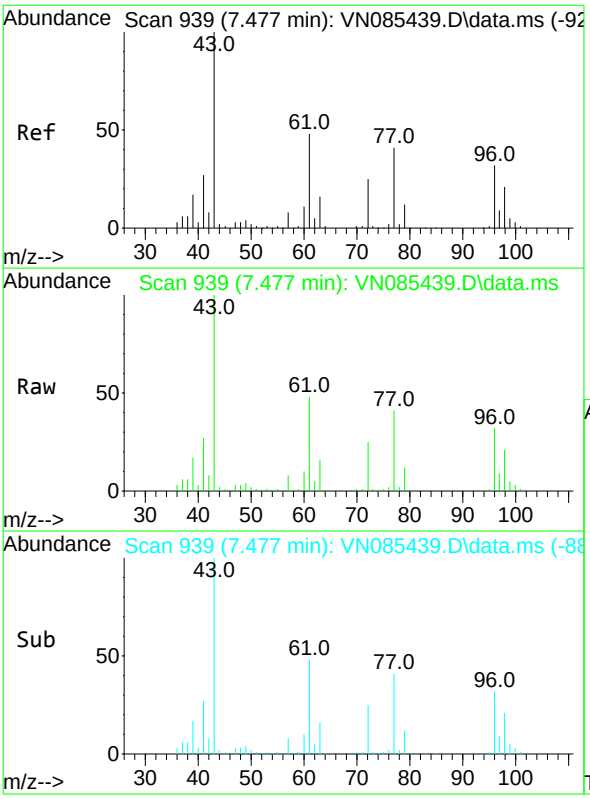




#24
1,1-Dichloroethane
Concen: 49.648 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 63 Resp: 233336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.5 | 3.3 | 9.8 |
| 100 | 4.0 | 2.0 | 6.0 |






#25
2-Butanone
Concen: 253.815 ug/l
RT: 7.477 min Scan# 93
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

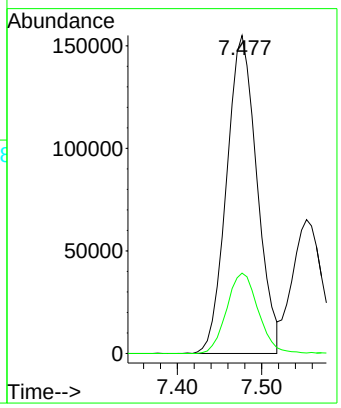
Tgt Ion: 43 Resp: 388457

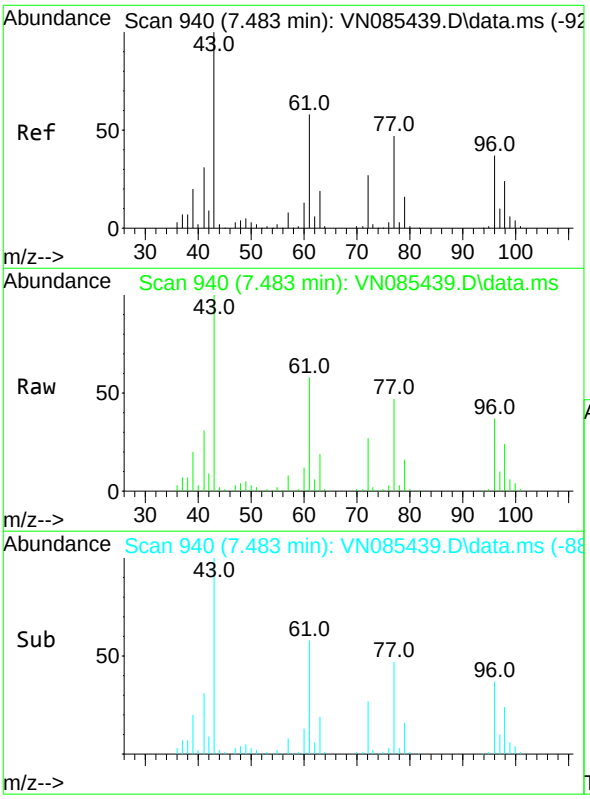
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.3 | 20.2 | 30.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

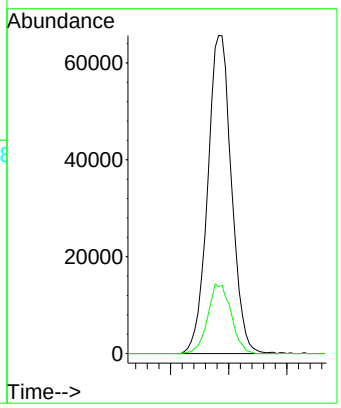


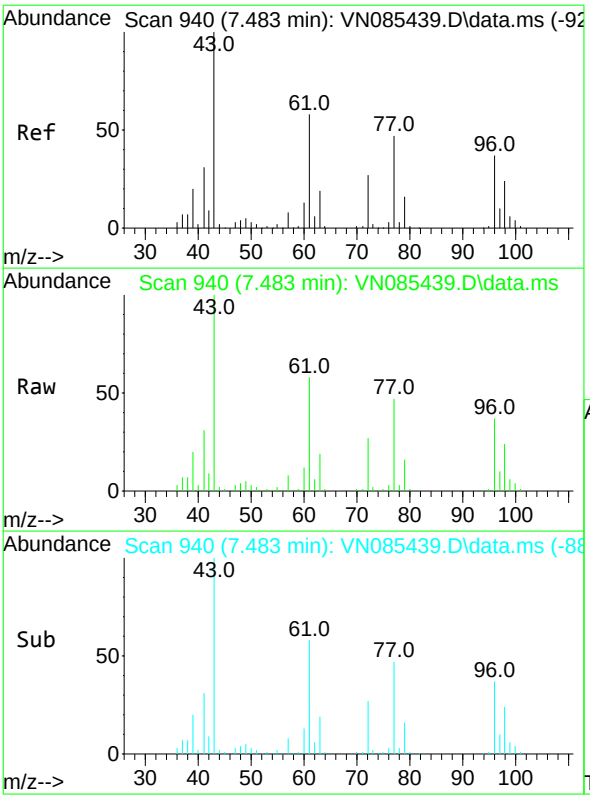




#26
2,2-Dichloropropane
Concen: 49.106 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 77 Resp: 186591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.4 | 10.7 | 32.1 |






#27
cis-1,2-Dichloroethene
Concen: 50.571 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

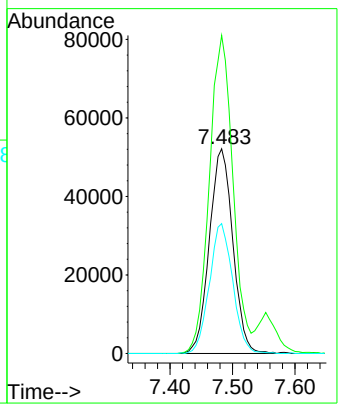
Tgt Ion: 96 Resp: 136229

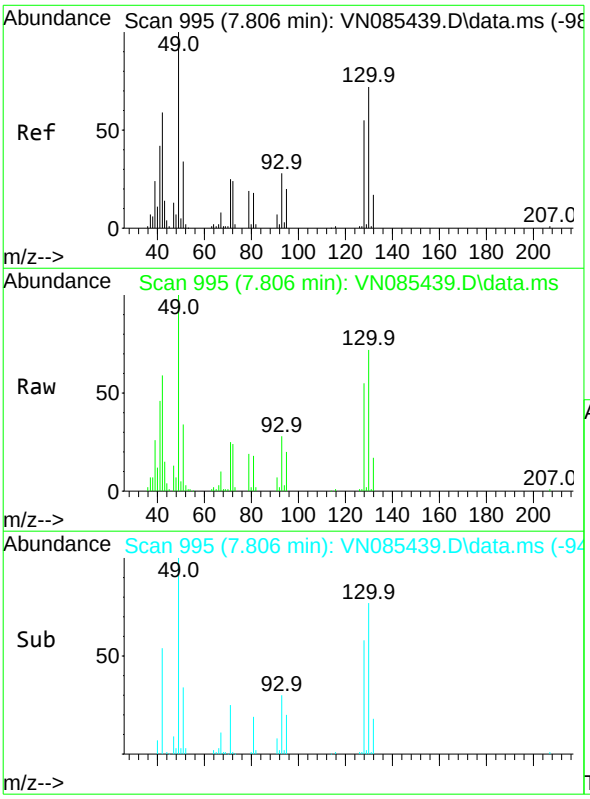
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 155.9 | 0.0 | 311.8 |
| 98 | 63.0 | 0.0 | 126.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

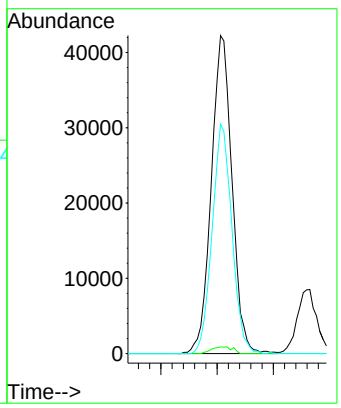


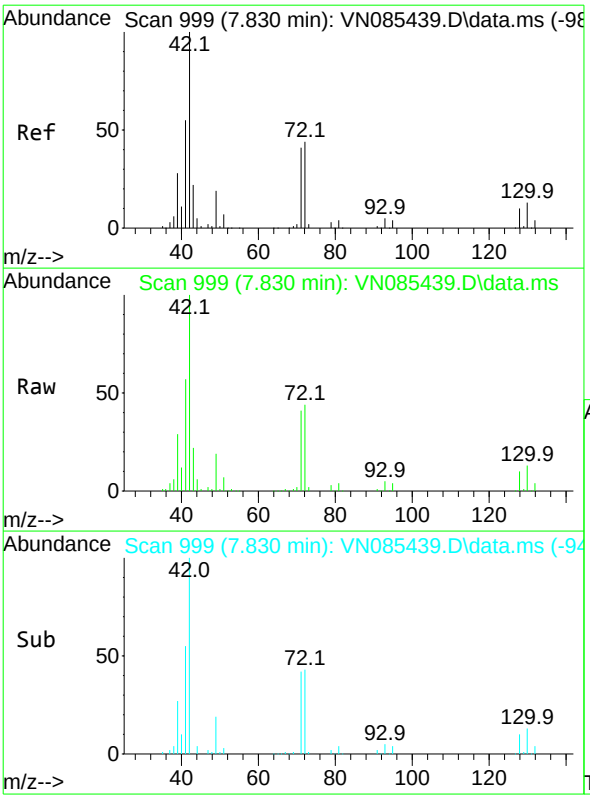




#28
Bromochloromethane
Concen: 49.461 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 49 Resp: 108148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.4 |
| 130 | 68.7 | 55.0 | 82.4 |






#29
Tetrahydrofuran
Concen: 267.624 ug/l
RT: 7.830 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

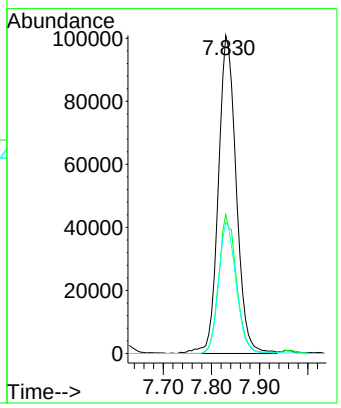
Tgt Ion: 42 Resp: 259683

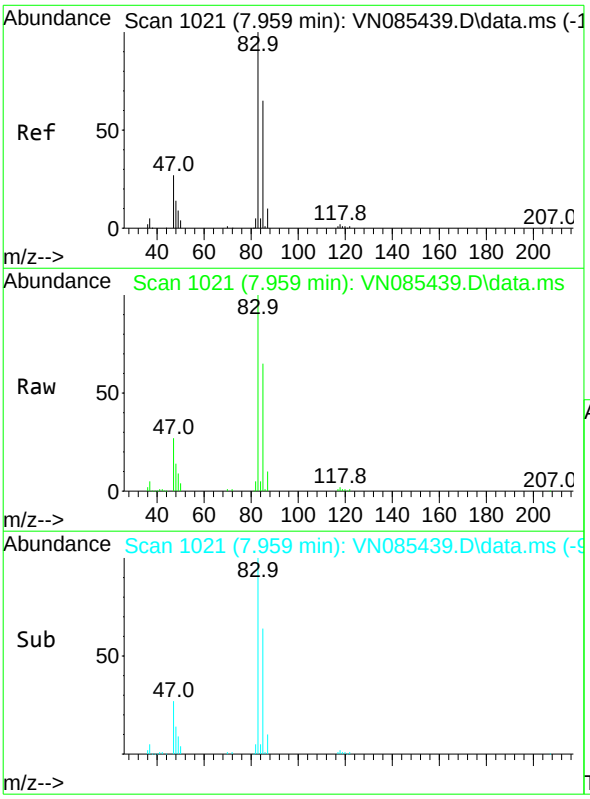
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.7 | 34.2 | 51.2 |
| 71 | 40.6 | 32.5 | 48.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

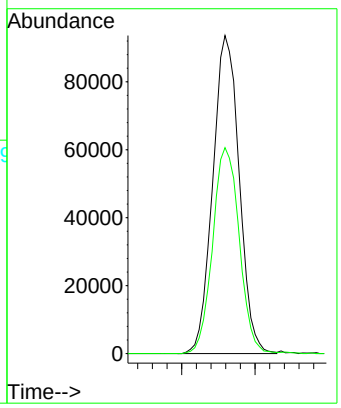


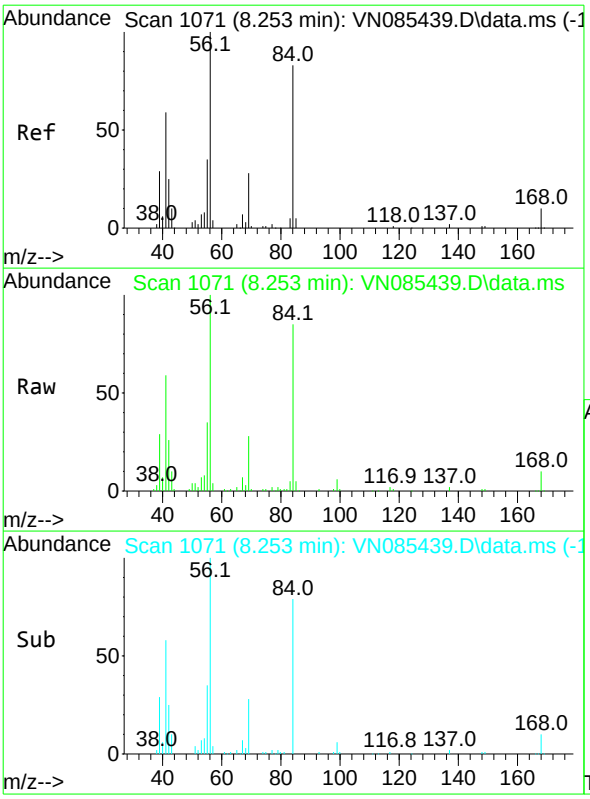




#30
Chloroform
Concen: 48.229 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 83 Resp: 234271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.7 | 51.8 | 77.6 |






#31
Cyclohexane
Concen: 42.984 ug/l
RT: 8.253 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

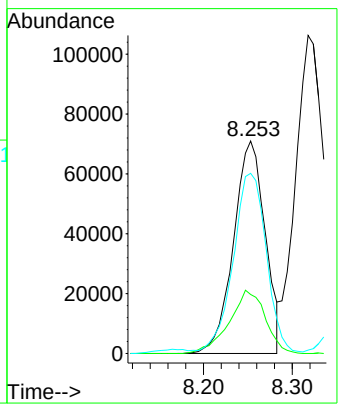
Tgt Ion: 56 Resp: 175588

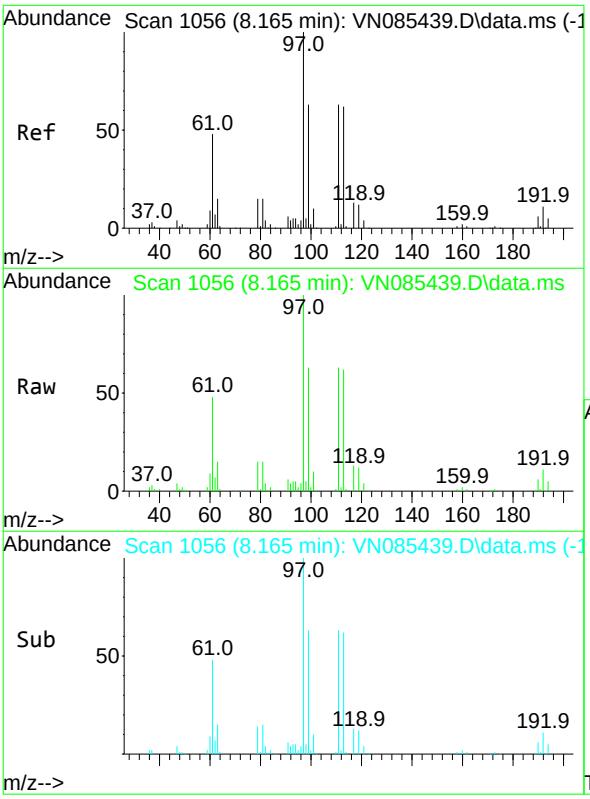
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 27.8 | 22.2 | 33.4 |
| 84 | 83.0 | 66.4 | 99.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

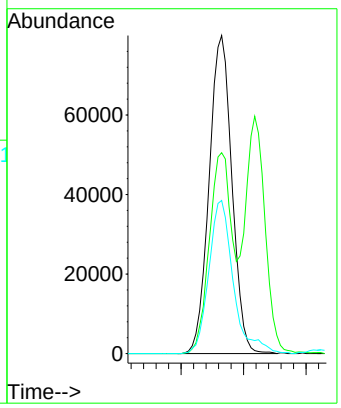


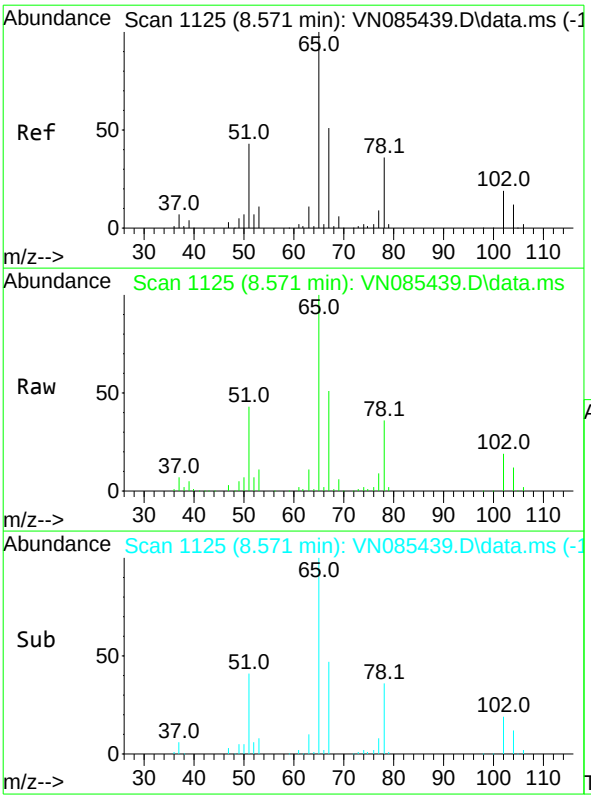




#32
1,1,1-Trichloroethane
Concen: 47.547 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 97 Resp: 202590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.2 | 49.8 | 74.6 |
| 61 | 51.8 | 41.4 | 62.2 |






#33
1,2-Dichloroethane-d4
Concen: 51.500 ug/l
RT: 8.571 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 65 Resp: 165768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.8 | 0.0 | 101.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

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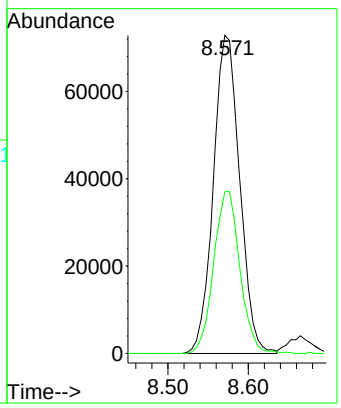
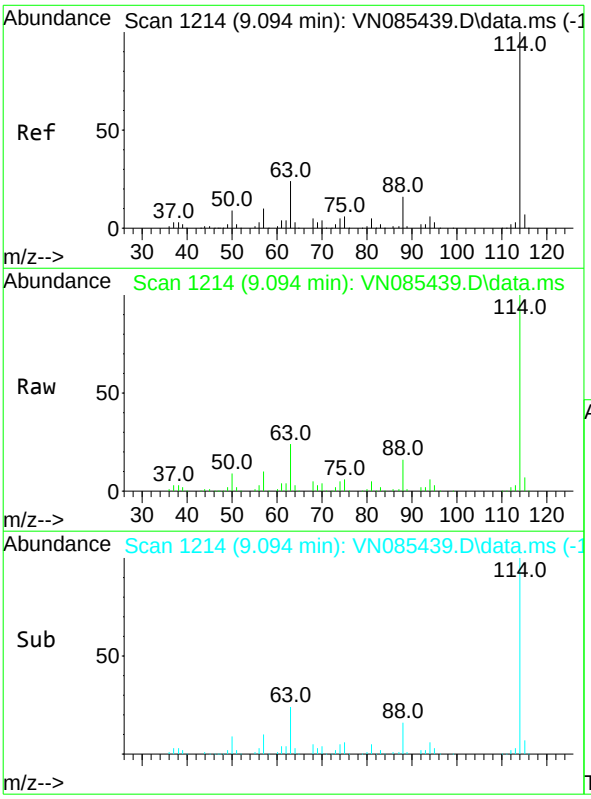
Supervised By :Mahesh Dadoda 01/15/2025

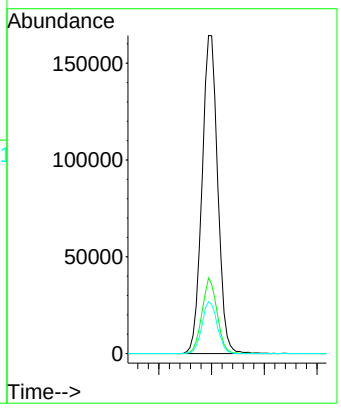


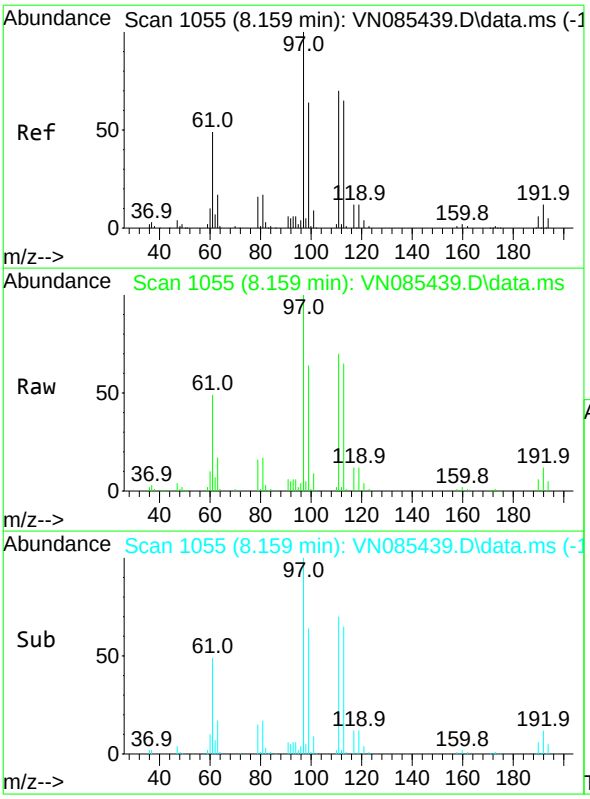




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:114 Resp: 339872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.8 | 0.0 | 47.6 |
| 88 | 16.3 | 0.0 | 32.6 |






#35
Dibromofluoromethane
Concen: 51.552 ug/l
RT: 8.159 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:113 Resp: 121554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.4 | 82.7 | 124.1 |
| 192 | 17.9 | 14.3 | 21.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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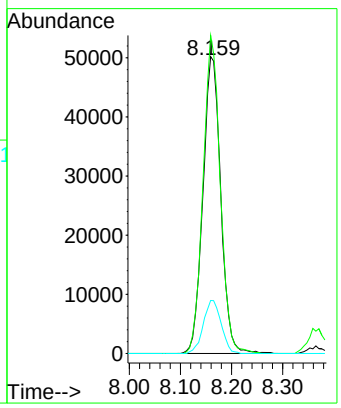
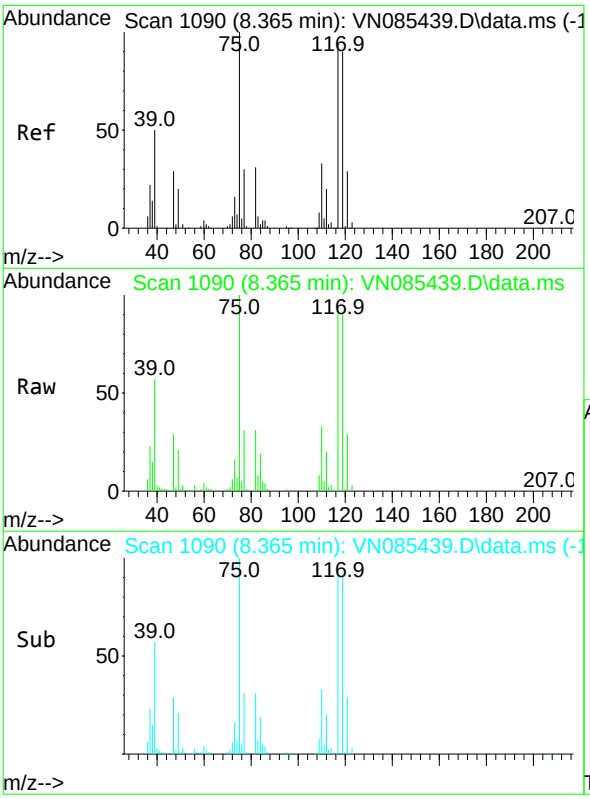
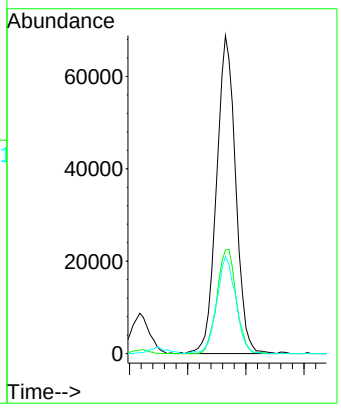


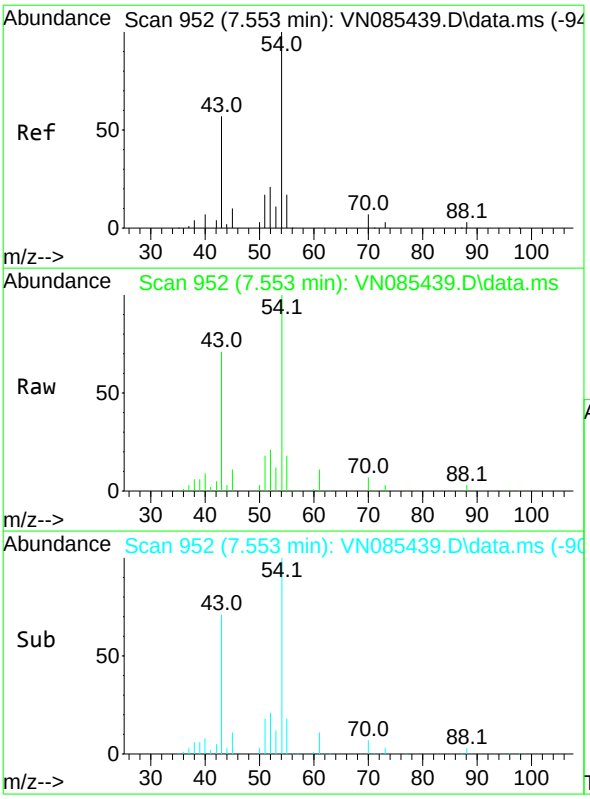




#36
1,1-Dichloropropene
Concen: 47.453 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 157031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.0 | 16.5 | 49.5 |
| 77 | 30.5 | 24.4 | 36.6 |






#37
Ethyl Acetate
Concen: 49.658 ug/l
RT: 7.553 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

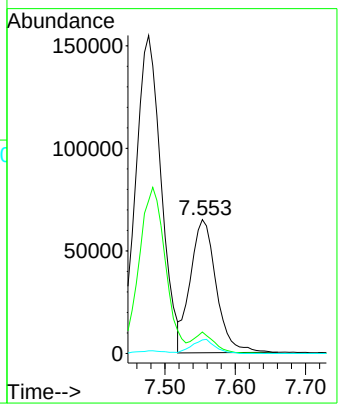
Tgt Ion: 43 Resp: 165866

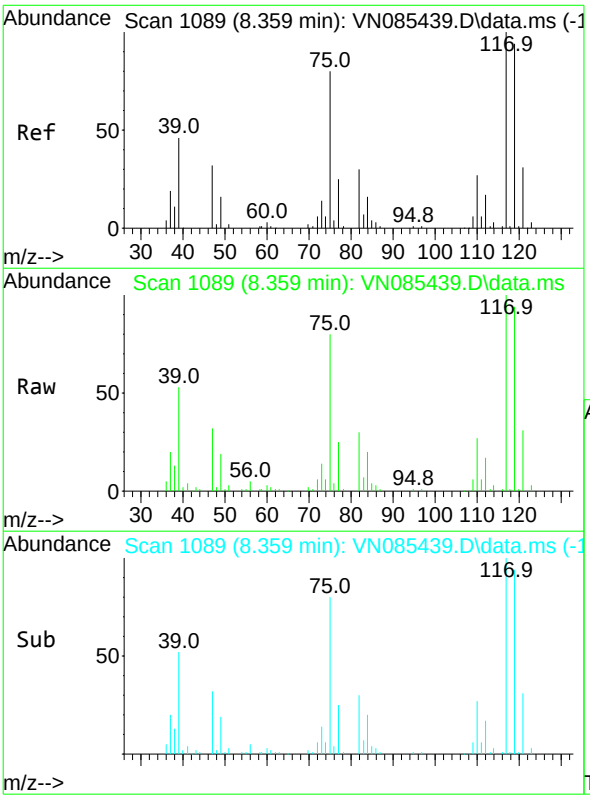
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.6 | 10.9 | 16.3 |
| 70 | 9.4 | 7.5 | 11.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

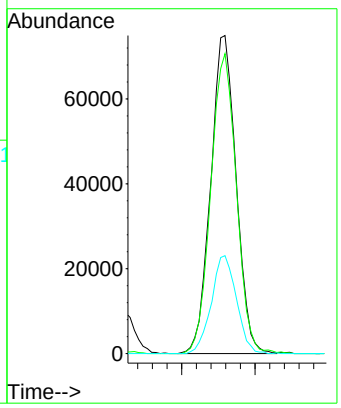


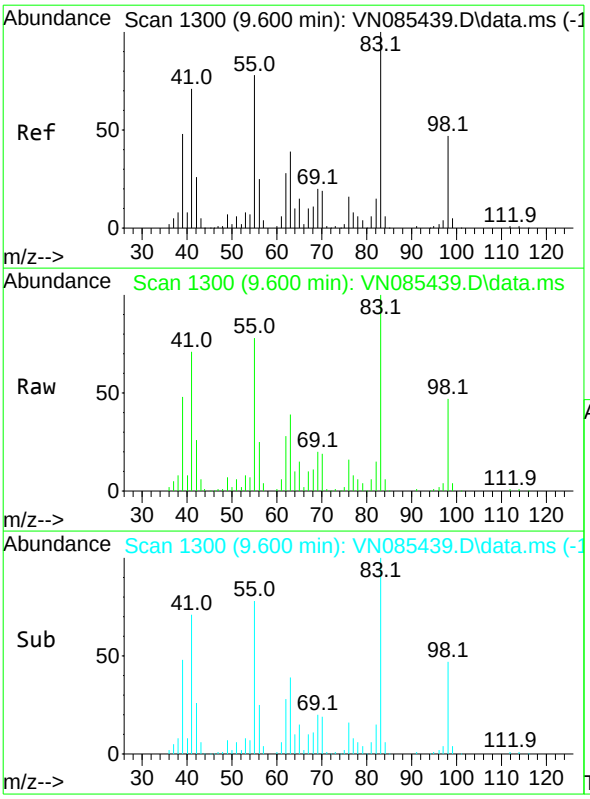




#38
Carbon Tetrachloride
Concen: 47.564 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:117 Resp: 180199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.3 | 75.4 | 113.2 |
| 121 | 30.8 | 24.6 | 37.0 |






#39
Methylcyclohexane
Concen: 50.562 ug/l
RT: 9.600 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

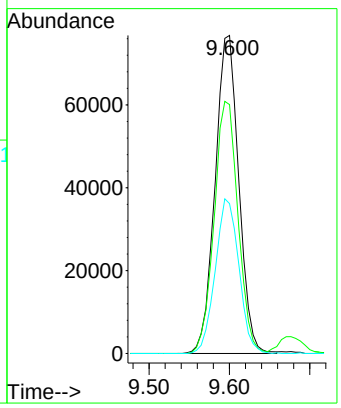
Tgt Ion: 83 Resp: 157234

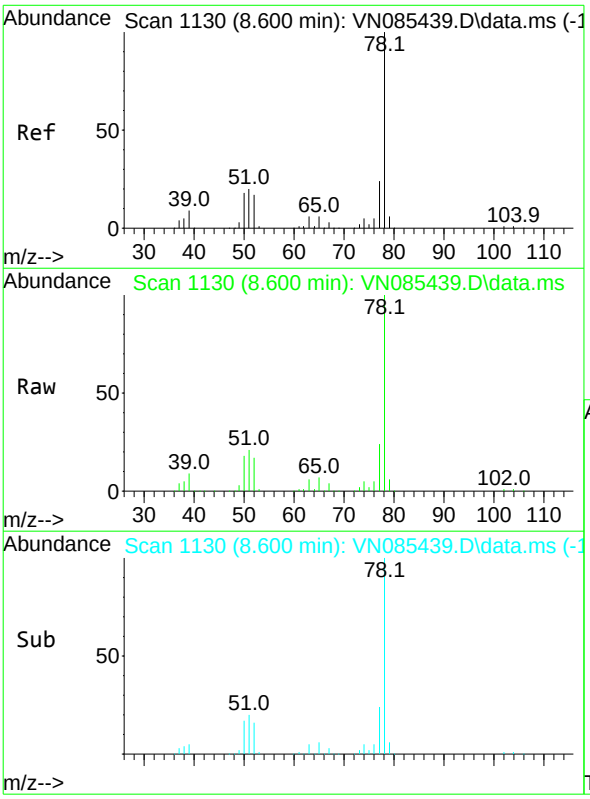
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 78.3 | 62.6 | 94.0 |
| 98 | 47.1 | 37.7 | 56.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

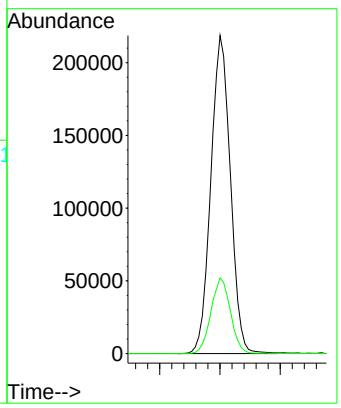


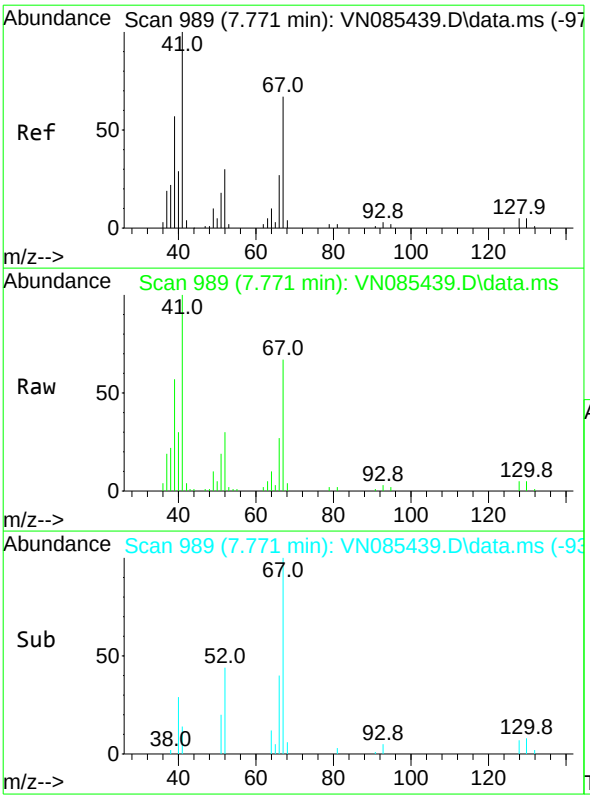




#40
Benzene
Concen: 49.542 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 78 Resp: 492606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.8 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 52.775 ug/l
RT: 7.771 min Scan# 98
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 41 Resp: 91711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.5 | 46.0 | 69.0 |
| 67 | 71.8 | 57.4 | 86.2 |
| 52 | 31.9 | 25.5 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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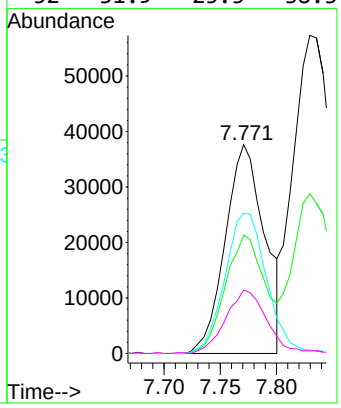
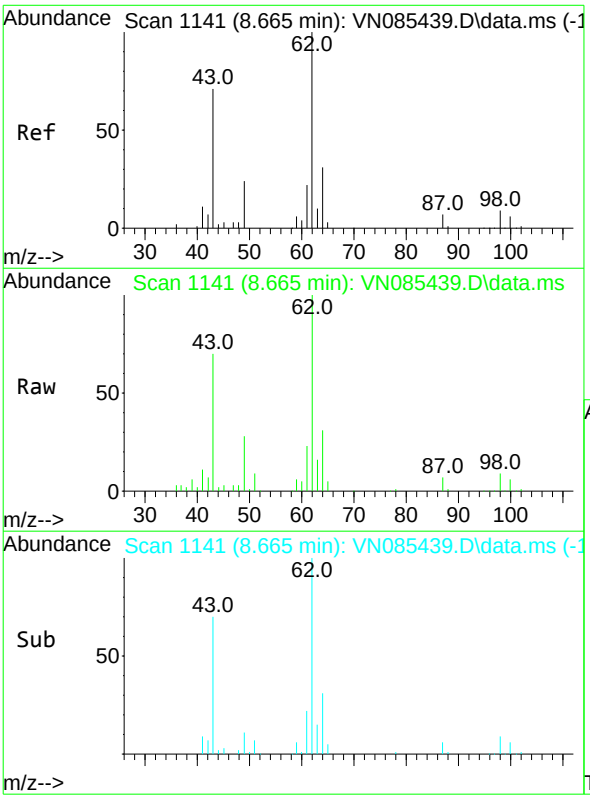
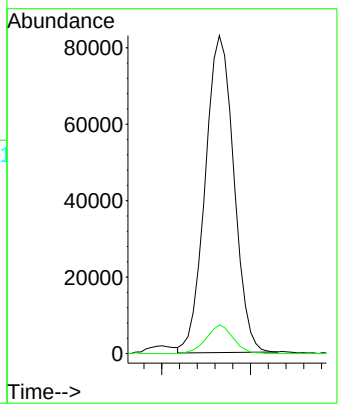


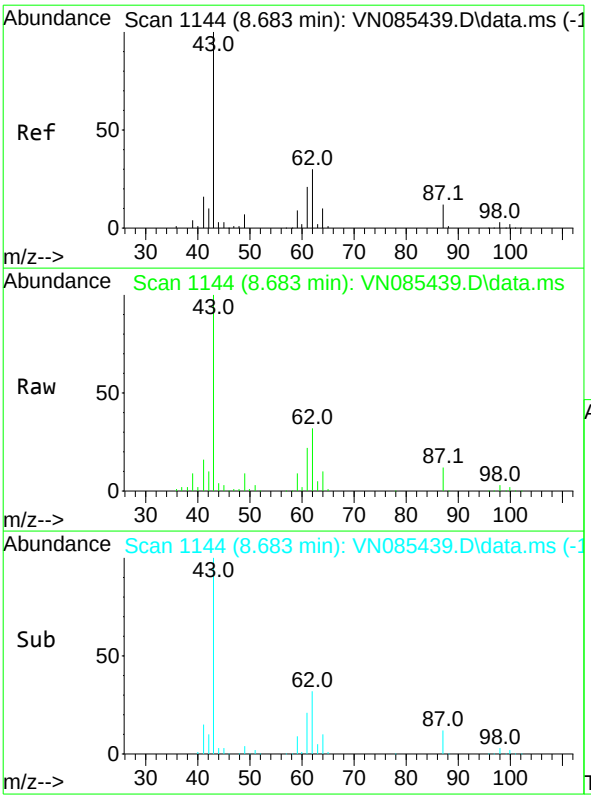




#42
1,2-Dichloroethane
Concen: 49.685 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 62 Resp: 186065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.5 | 0.0 | 17.0 |






#43
Isopropyl Acetate
Concen: 51.611 ug/l
RT: 8.683 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

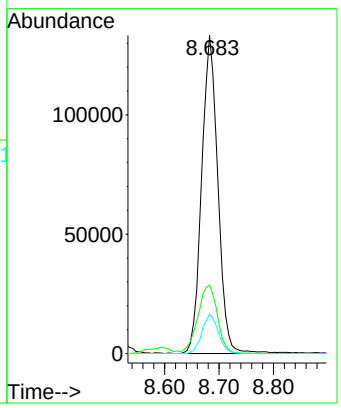
Tgt Ion: 43 Resp: 276228

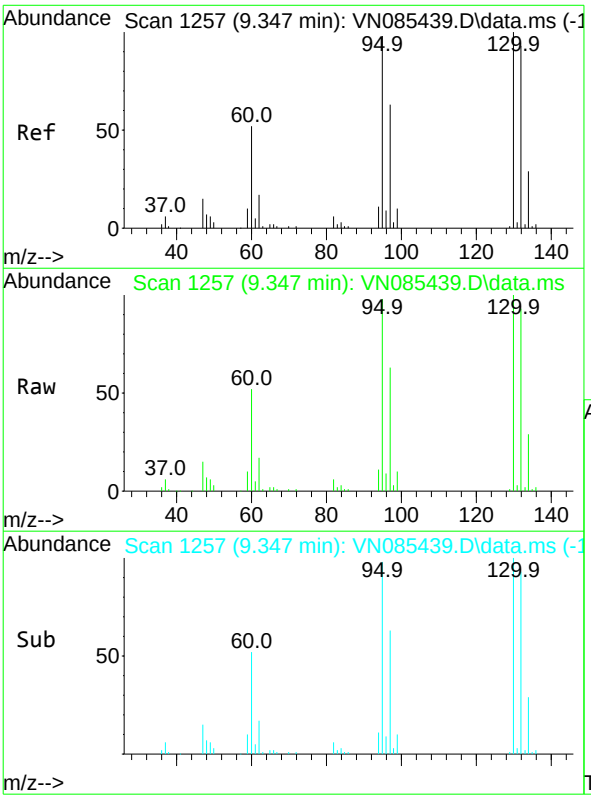
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 25.9 | 20.7 | 31.1 |
| 87 | 12.3 | 9.8 | 14.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

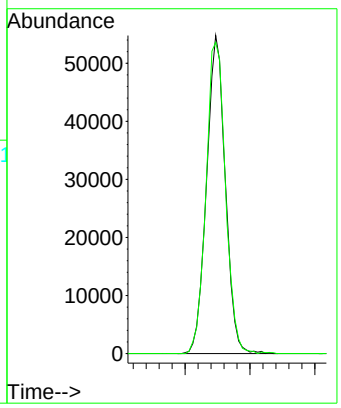


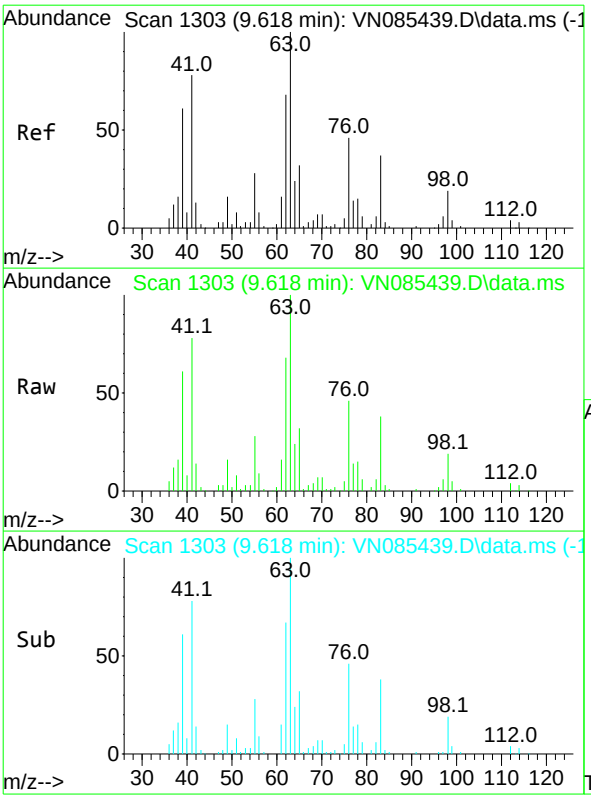




#44
Trichloroethene
Concen: 47.506 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:130 Resp: 109953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 97.9 | 0.0 | 195.8 |






#45
1,2-Dichloropropane
Concen: 49.644 ug/l
RT: 9.618 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

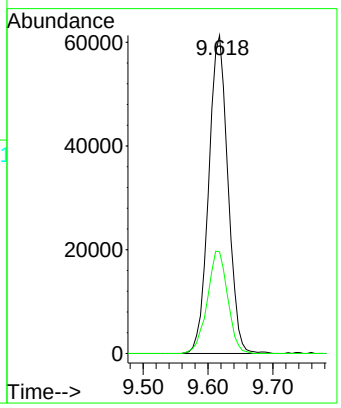
Tgt Ion: 63 Resp: 126084

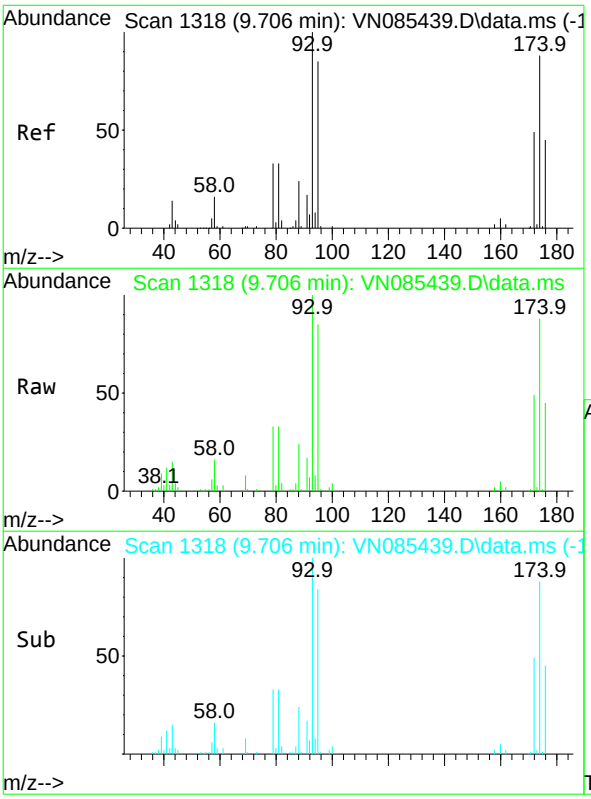
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.0 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

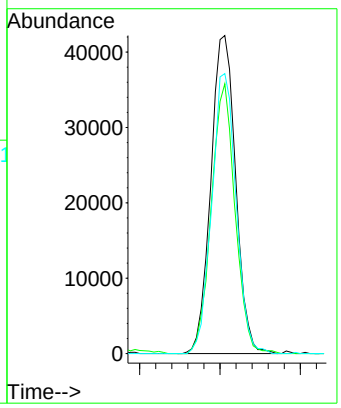


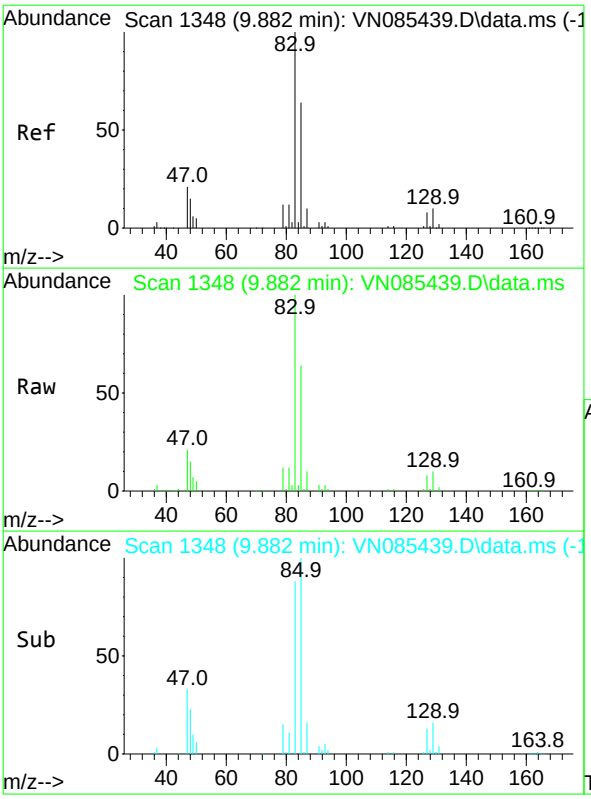




#46
Dibromomethane
Concen: 49.476 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 93 Resp: 90670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.9 | 64.7 | 97.1 |
| 174 | 86.2 | 69.0 | 103.4 |






#47
Bromodichloromethane
Concen: 50.867 ug/l
RT: 9.882 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

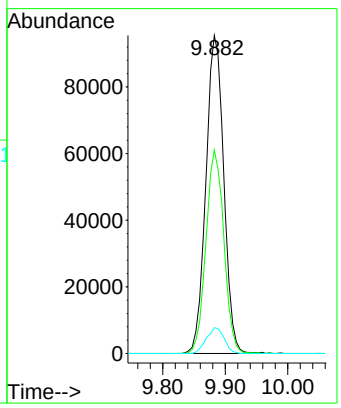
Tgt Ion: 83 Resp: 189915

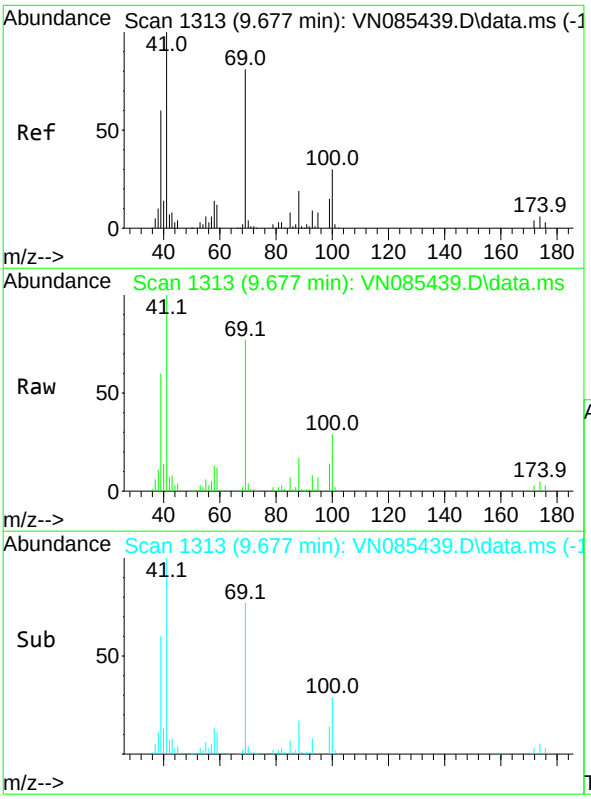
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.0 | 51.2 | 76.8 |
| 127 | 8.1 | 6.5 | 9.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

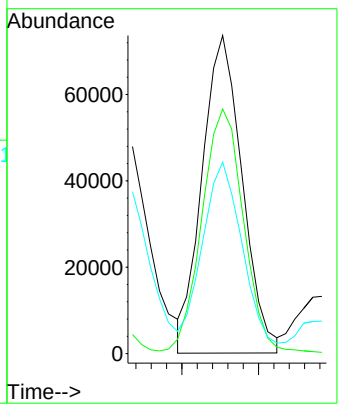


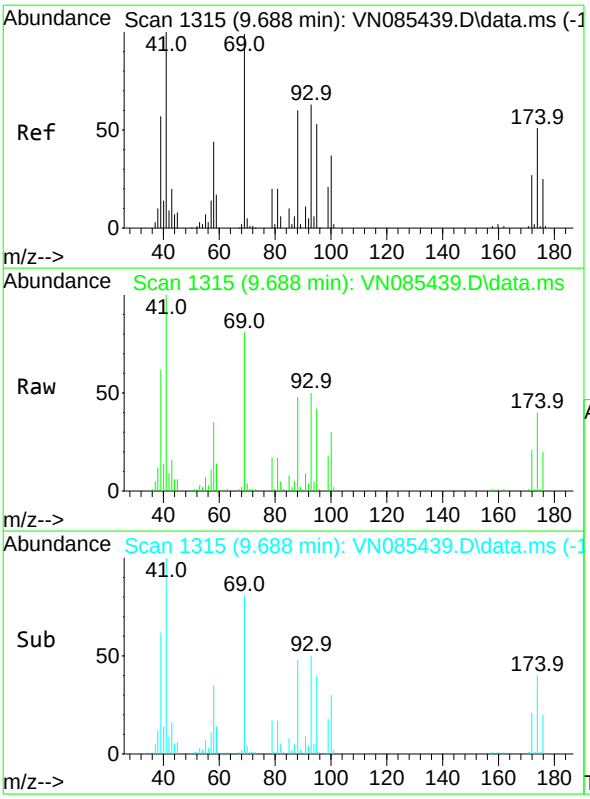




#48
Methyl methacrylate
Concen: 55.385 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 41 Resp: 133399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 80.9 | 64.7 | 97.1 |
| 39 | 61.3 | 49.0 | 73.6 |






#49
1,4-Dioxane
Concen: 1061.334 ug/l
RT: 9.688 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 88 Resp: 43048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.2 | 26.6 | 39.8 |
| 58 | 74.4 | 59.5 | 89.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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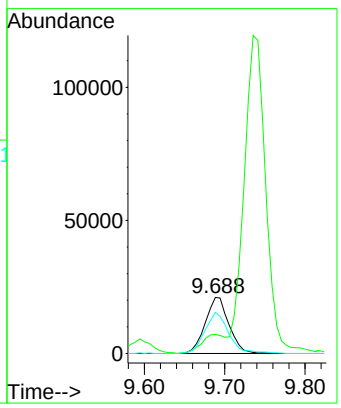
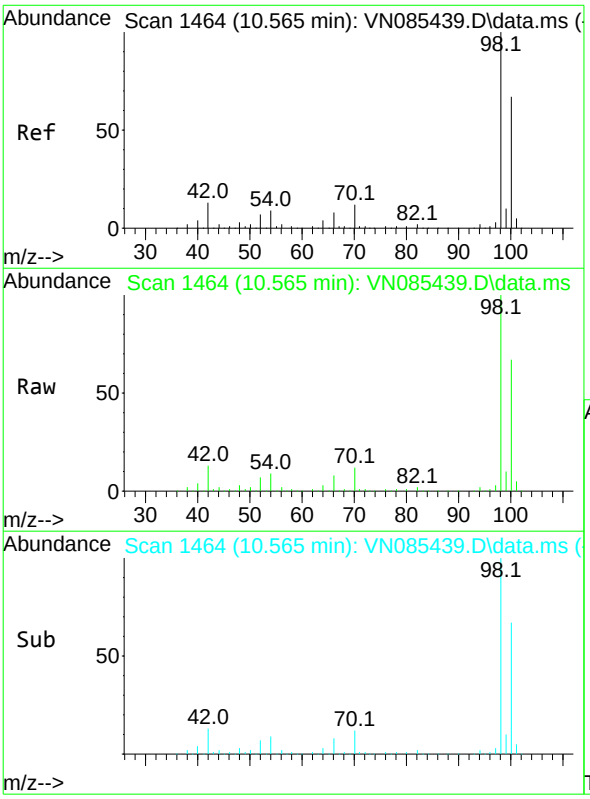
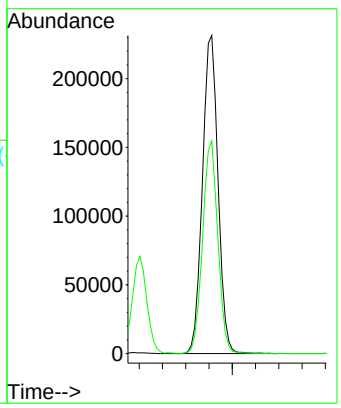


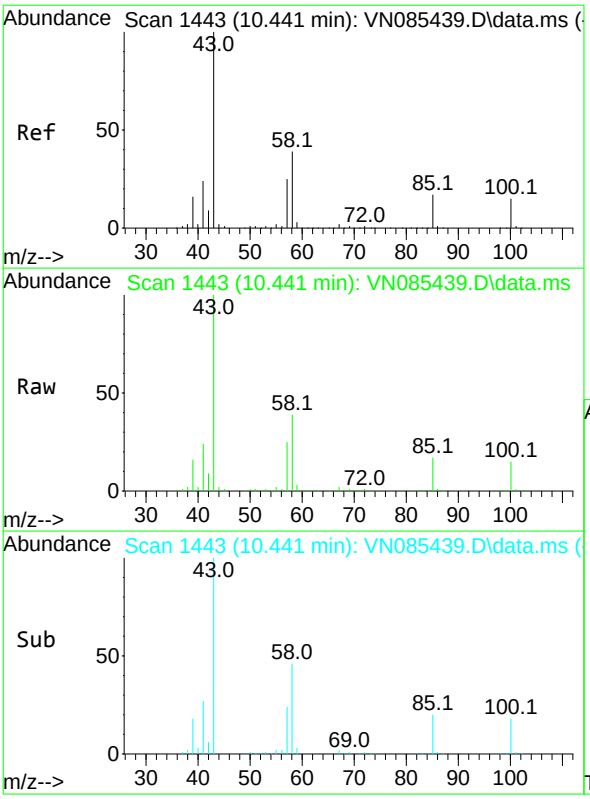




#50
Toluene-d8
Concen: 51.411 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 98 Resp: 430698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.3 | 52.2 | 78.4 |






#51
4-Methyl-2-Pentanone
Concen: 269.403 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 836707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.1 | 30.5 | 45.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

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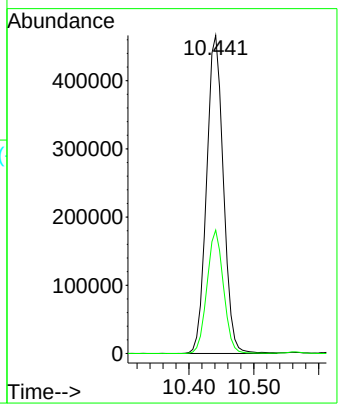
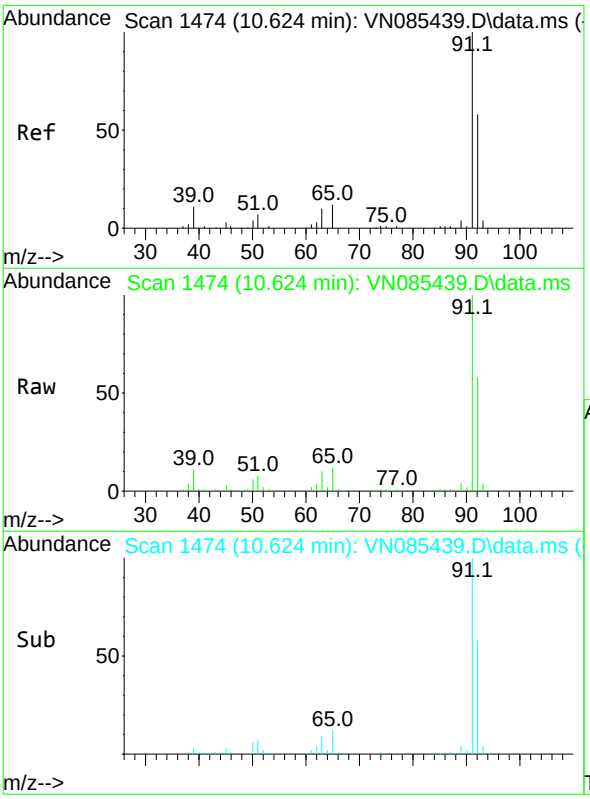
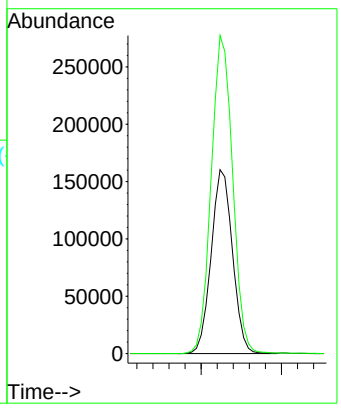


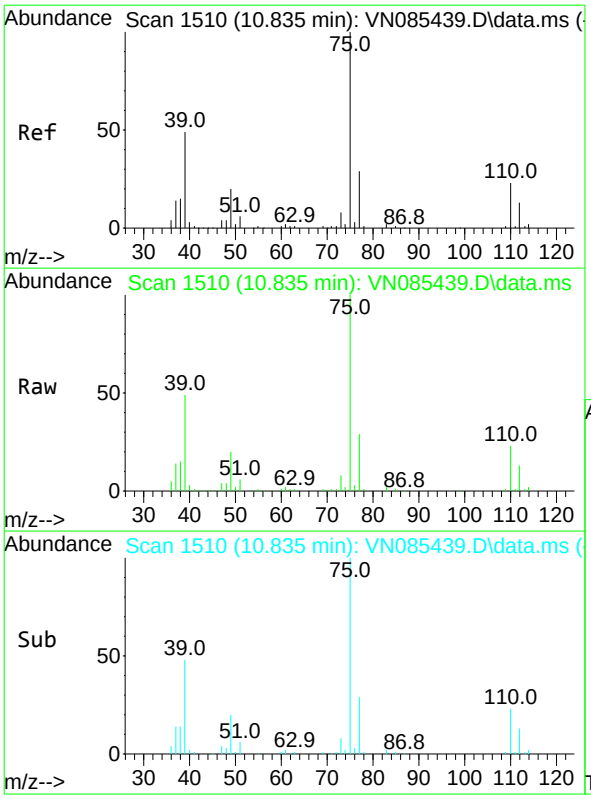




#52
Toluene
Concen: 51.341 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 92 Resp: 295792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.0 | 139.2 | 208.8 |






#53
t-1,3-Dichloropropene
Concen: 53.125 ug/l
RT: 10.835 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 187439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.4 | 23.5 | 35.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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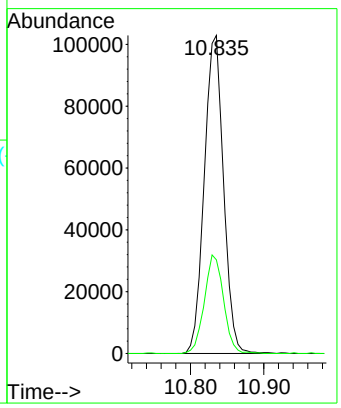
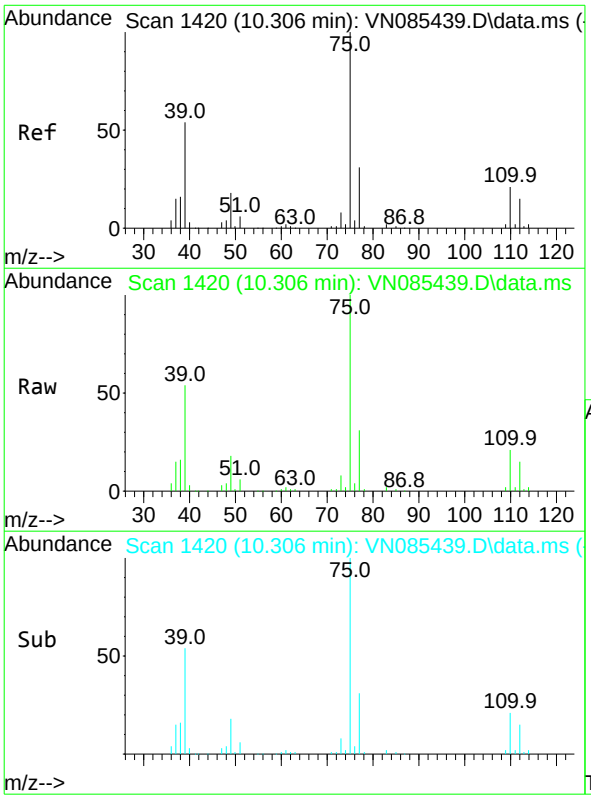
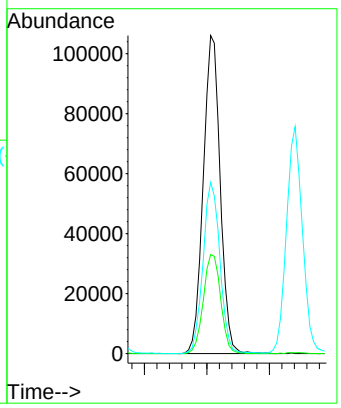


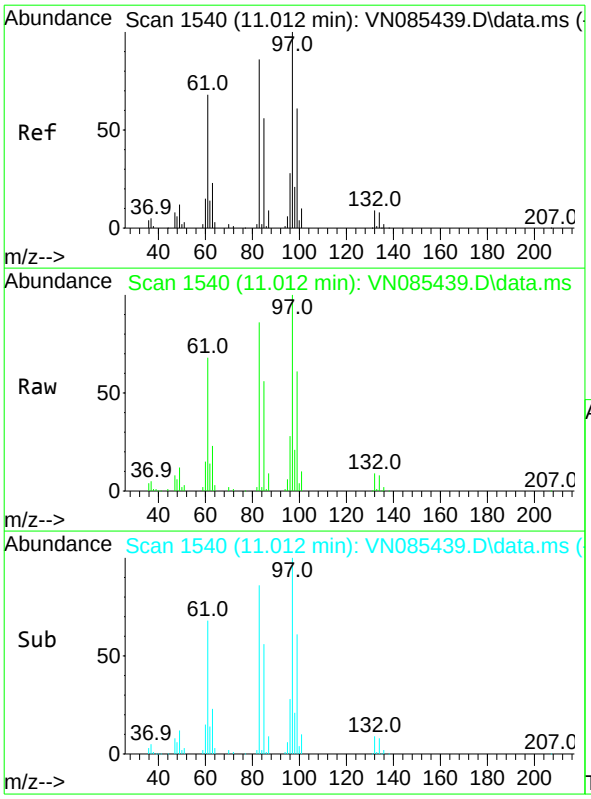




#54
cis-1,3-Dichloropropene
Concen: 53.006 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 199771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.2 | 25.0 | 37.4 |
| 39 | 53.9 | 43.1 | 64.7 |






#55
1,1,2-Trichloroethane
Concen: 50.641 ug/l
RT: 11.012 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 97 Resp: 115462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.3 | 69.0 | 103.6 |
| 85 | 55.7 | 44.6 | 66.8 |
| 99 | 60.7 | 48.6 | 72.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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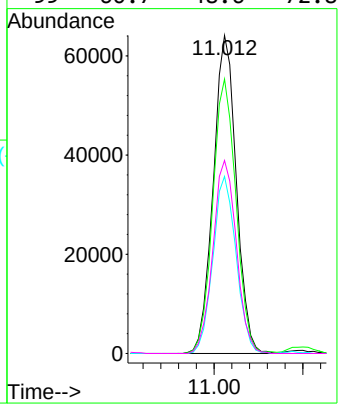
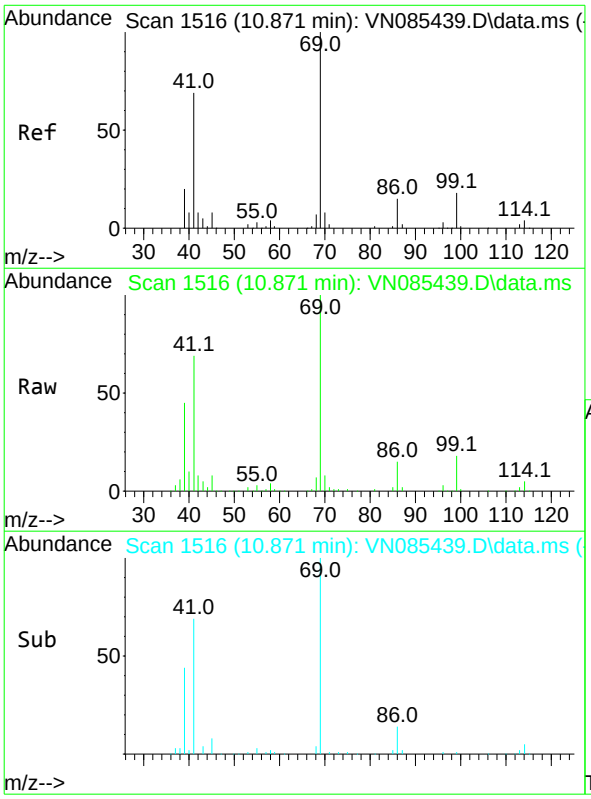
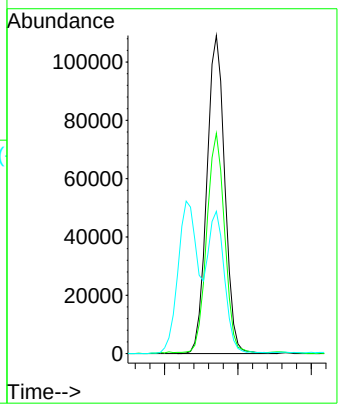


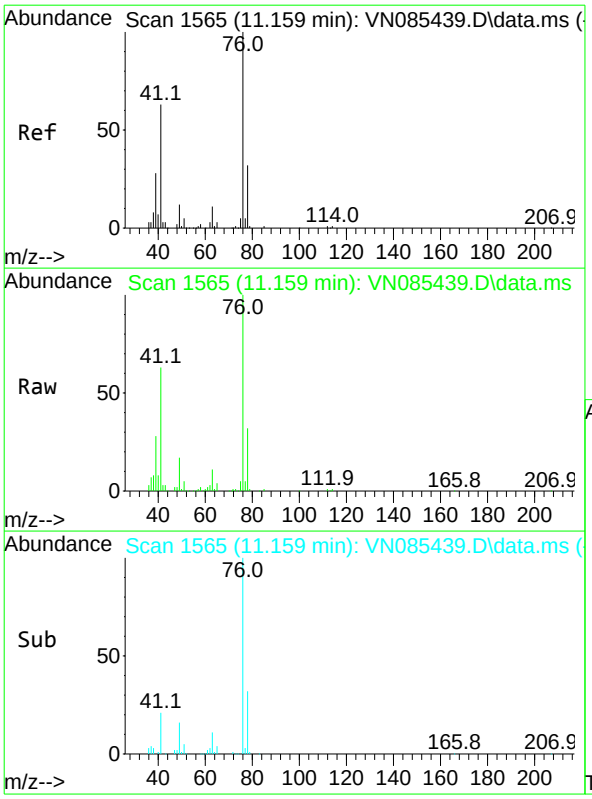




#56
Ethyl methacrylate
Concen: 48.182 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 69 Resp: 184775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 68.3 | 54.6 | 82.0 |
| 39 | 40.5 | 32.4 | 48.6 |






#57
1,3-Dichloropropane
Concen: 51.606 ug/l
RT: 11.159 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 76 Resp: 204590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.0 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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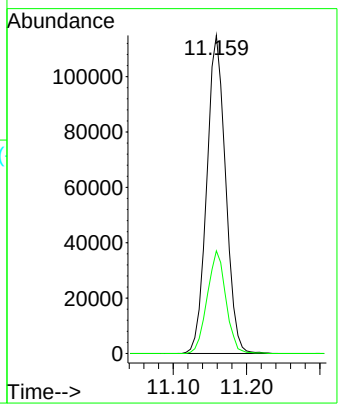
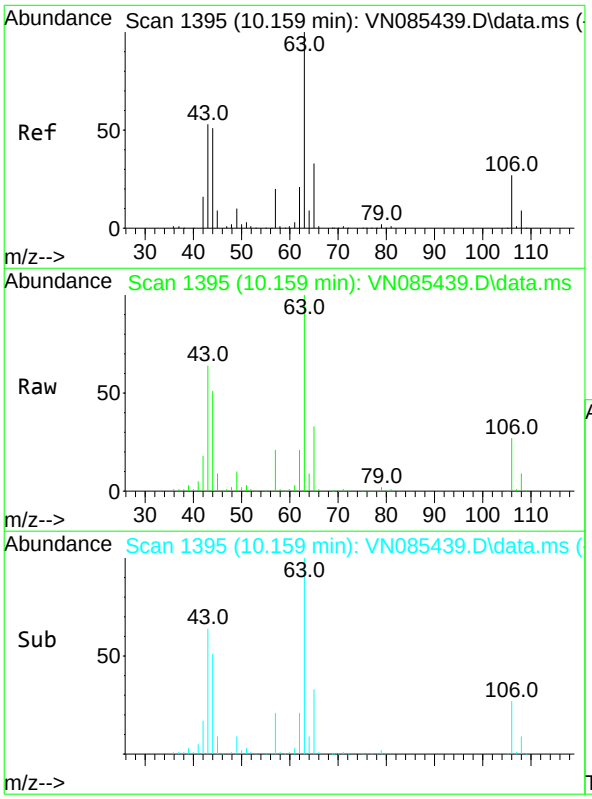
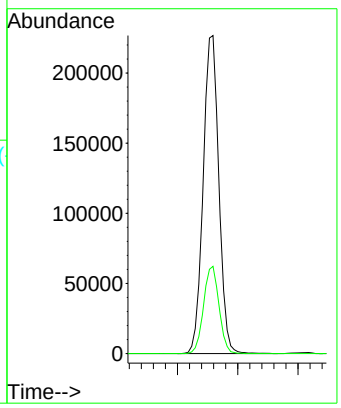


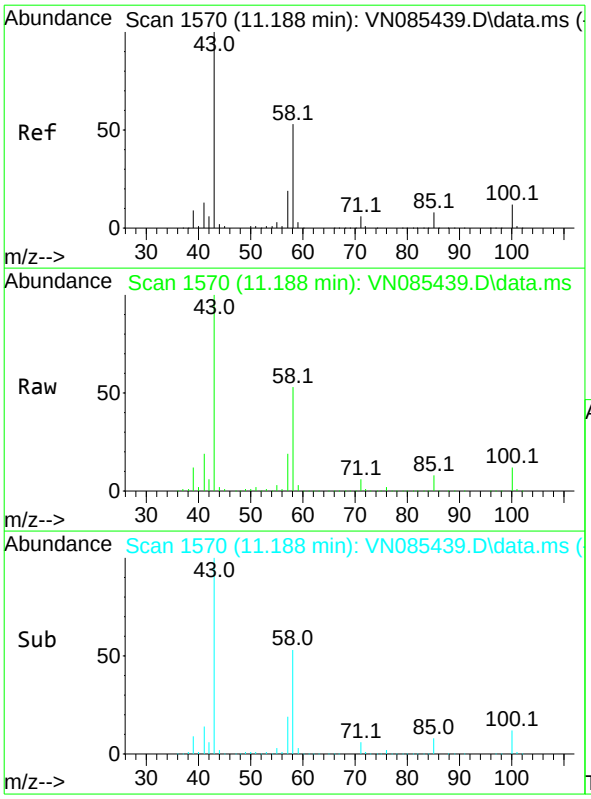




#58
2-Chloroethyl Vinyl ether
Concen: 283.088 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 63 Resp: 409594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.0 | 21.6 | 32.4 |






#59
2-Hexanone
Concen: 277.643 ug/l
RT: 11.188 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

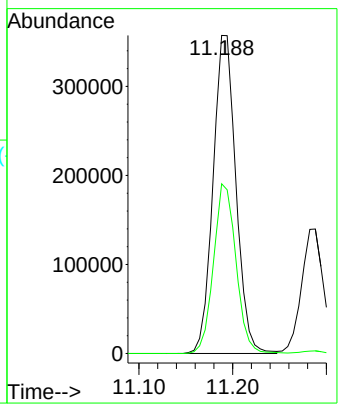
Tgt Ion: 43 Resp: 606740

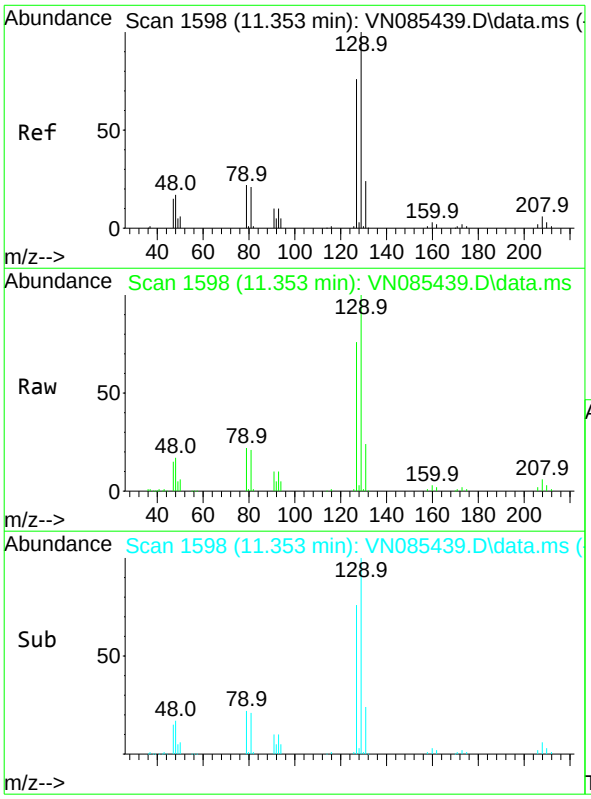
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 52.4 | 26.2 | 78.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

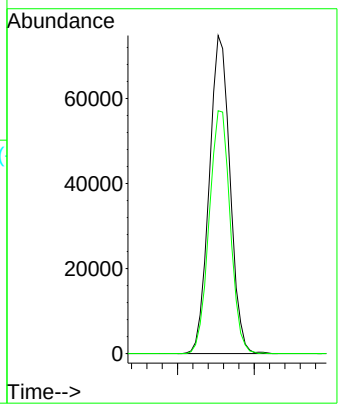


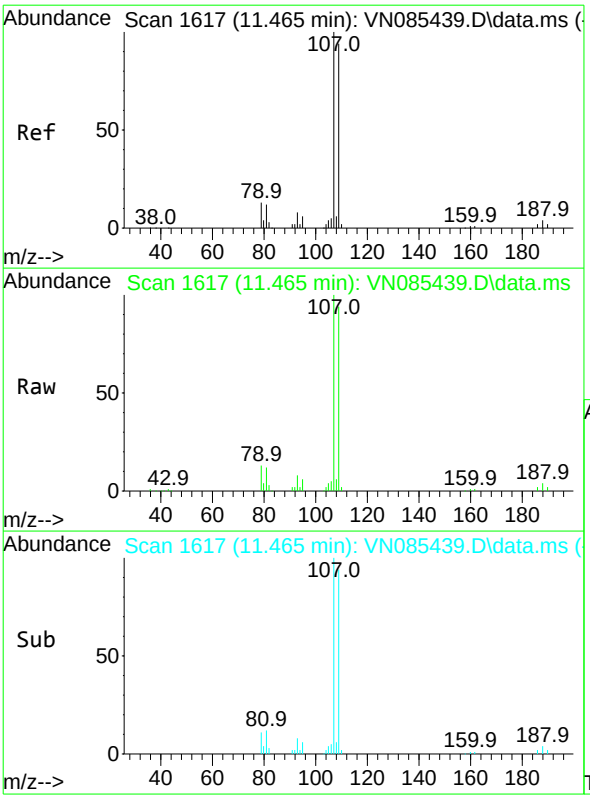




#60
Dibromochloromethane
Concen: 51.116 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:129 Resp: 140704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.2 | 38.6 | 115.8 |






#61
1,2-Dibromoethane
Concen: 50.028 ug/l
RT: 11.465 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

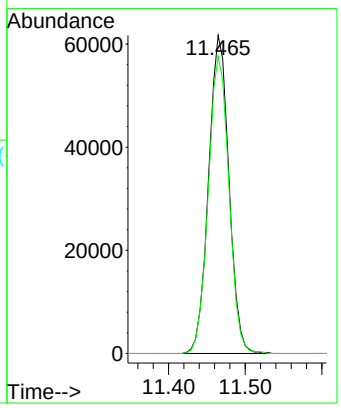
Tgt Ion:107 Resp: 113541

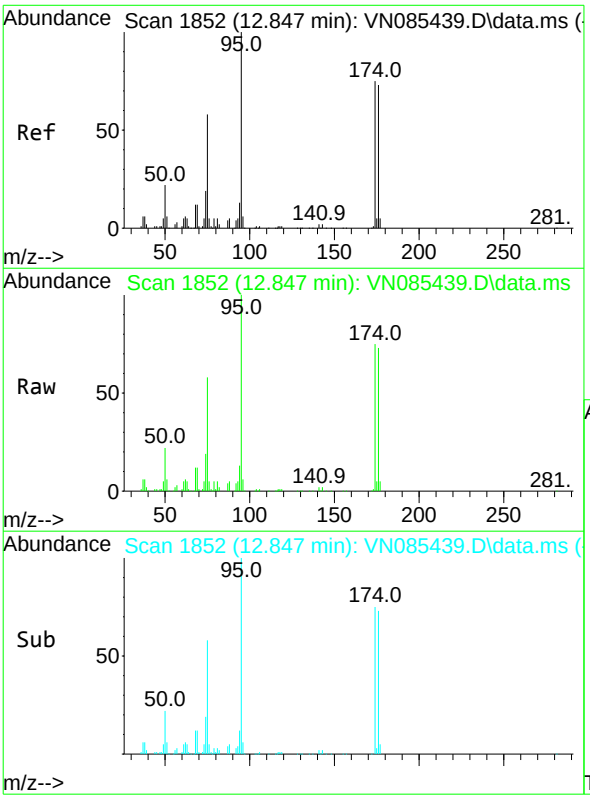
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.9 | 75.9 | 113.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

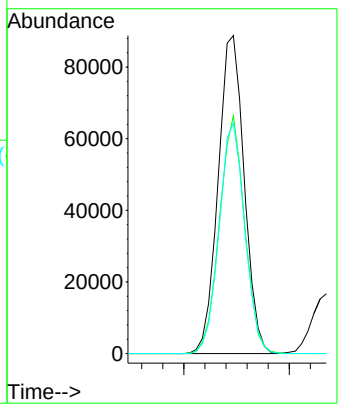


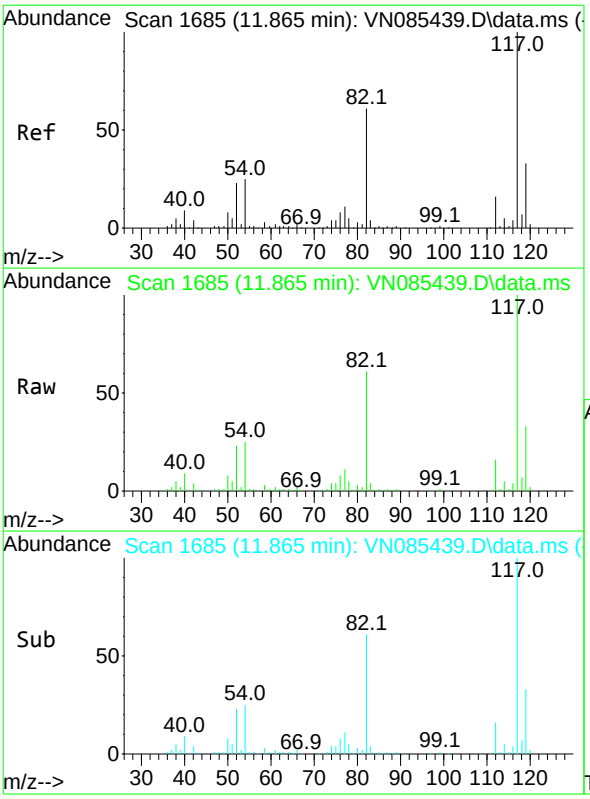




#62
4-Bromofluorobenzene
Concen: 53.239 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 95 Resp: 152568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 72.5 | 0.0 | 145.0 |
| 176 | 71.2 | 0.0 | 142.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

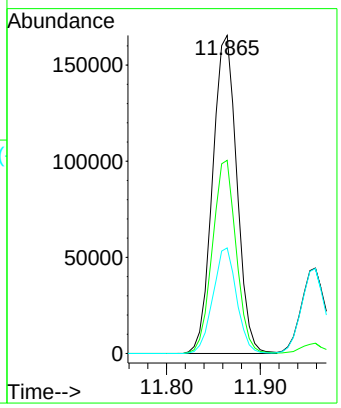
Tgt Ion:117 Resp: 297366

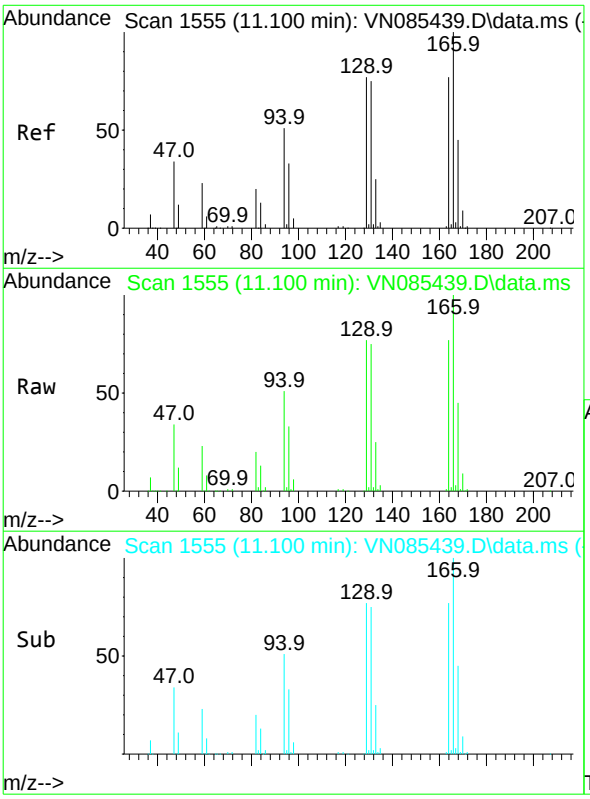
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 60.7 | 48.6 | 72.8 |
| 119 | 33.2 | 26.6 | 39.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

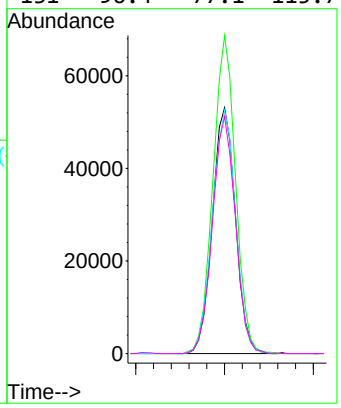


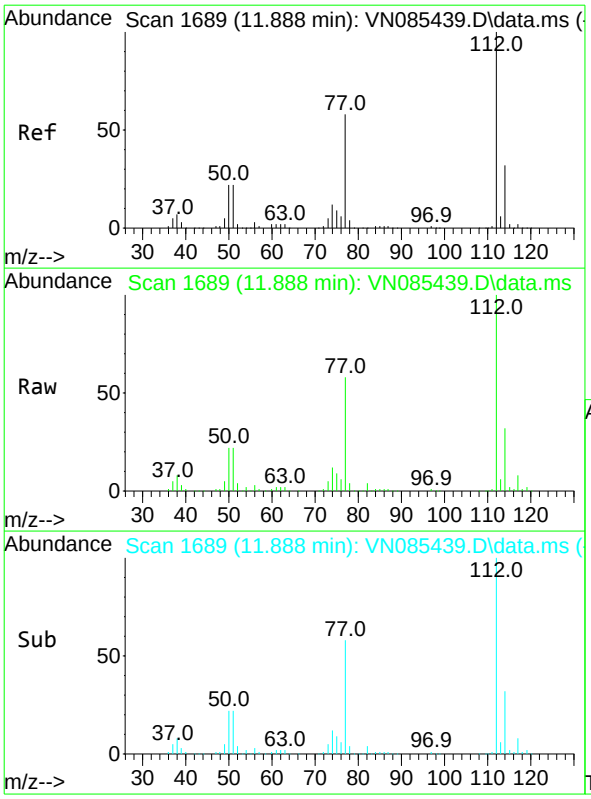




#64
Tetrachloroethene
Concen: 47.295 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:164 Resp: 95879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 129.3 | 103.4 | 155.2 |
| 129 | 99.0 | 79.2 | 118.8 |
| 131 | 96.4 | 77.1 | 115.7 |






#65
Chlorobenzene
Concen: 49.121 ug/l
RT: 11.888 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

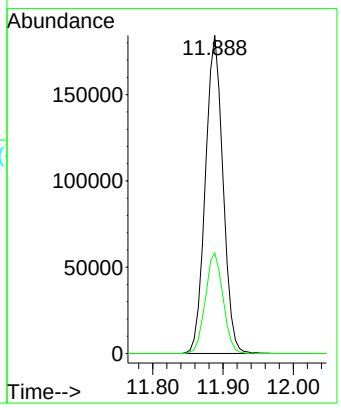
Tgt Ion:112 Resp: 319992

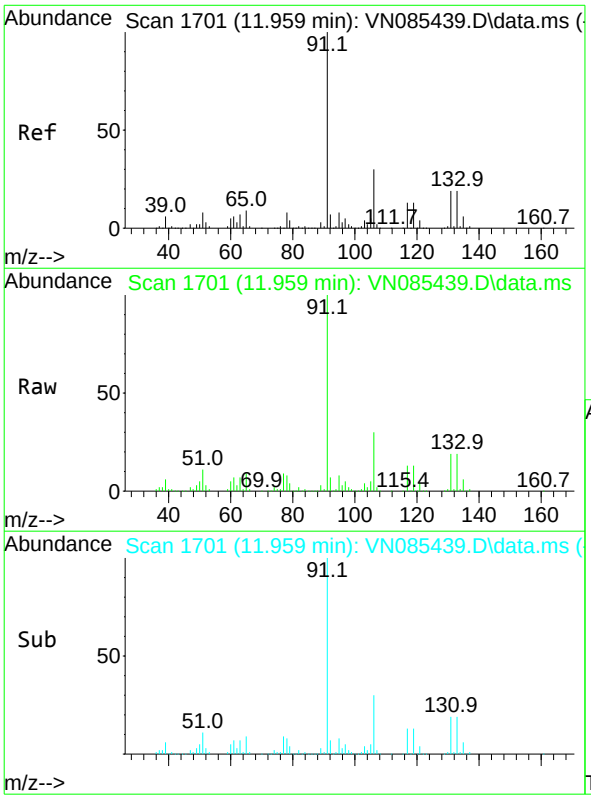
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.6 | 25.3 | 37.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

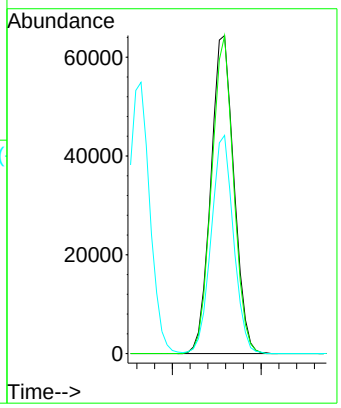


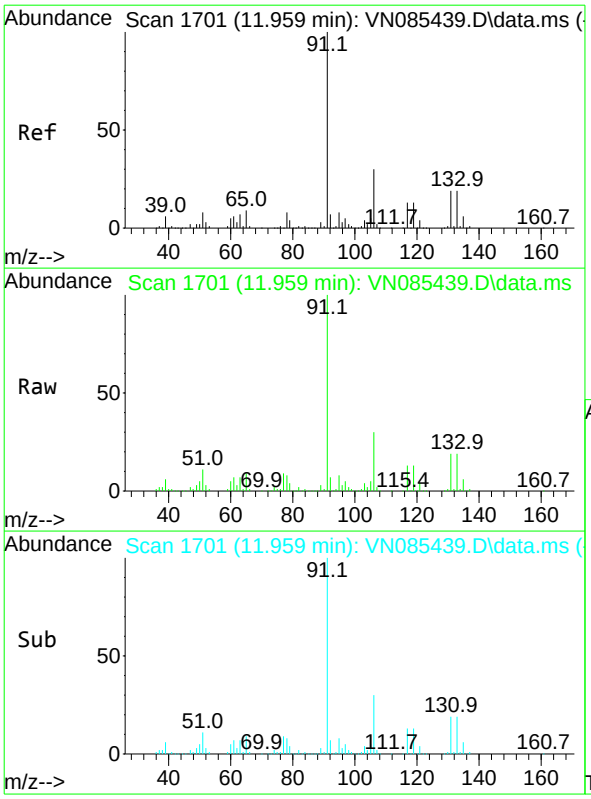




#66
1,1,1,2-Tetrachloroethane
Concen: 48.722 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:131 Resp: 116488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.9 | 47.4 | 142.3 |
| 119 | 66.3 | 33.1 | 99.5 |






#67
Ethyl Benzene
Concen: 52.339 ug/l
RT: 11.959 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

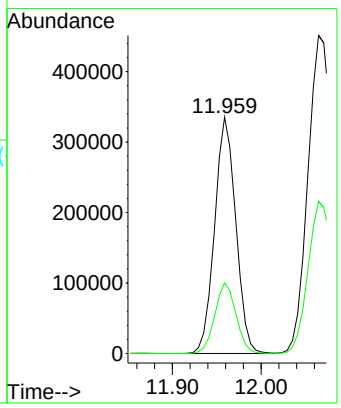
Tgt Ion: 91 Resp: 555322

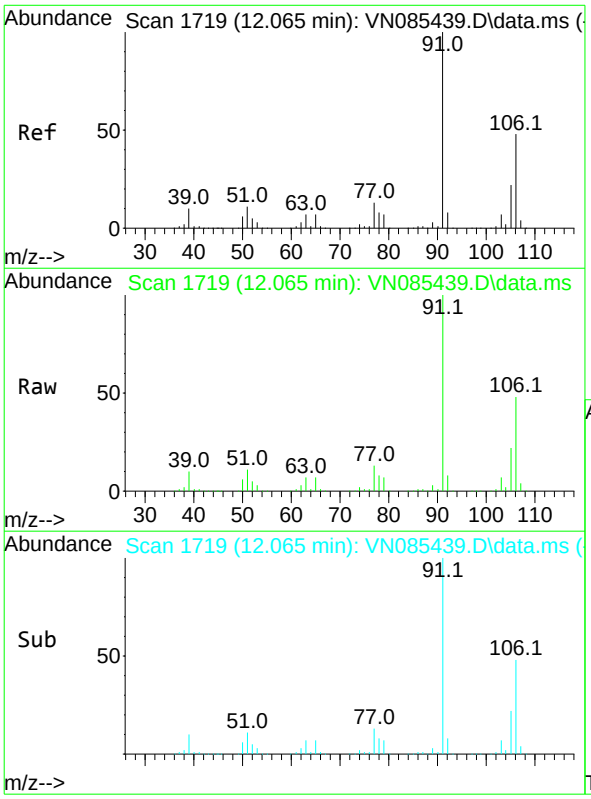
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.8 | 23.8 | 35.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

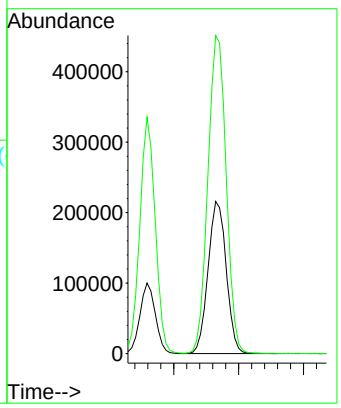


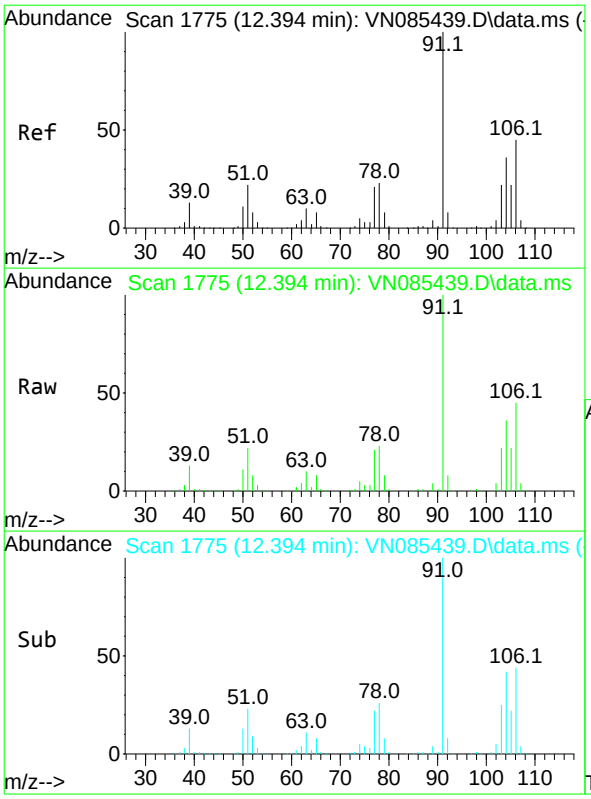




#68
m/p-Xylenes
Concen: 107.286 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:106 Resp: 420702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.6 | 167.7 | 251.5 |






#69
o-Xylene
Concen: 54.062 ug/l
RT: 12.394 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

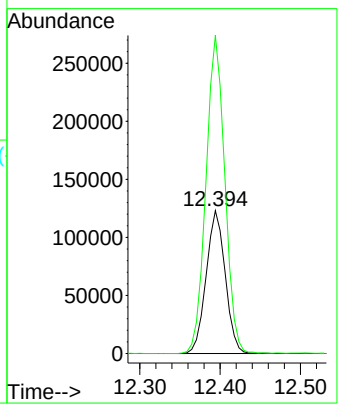
Tgt Ion:106 Resp: 202597

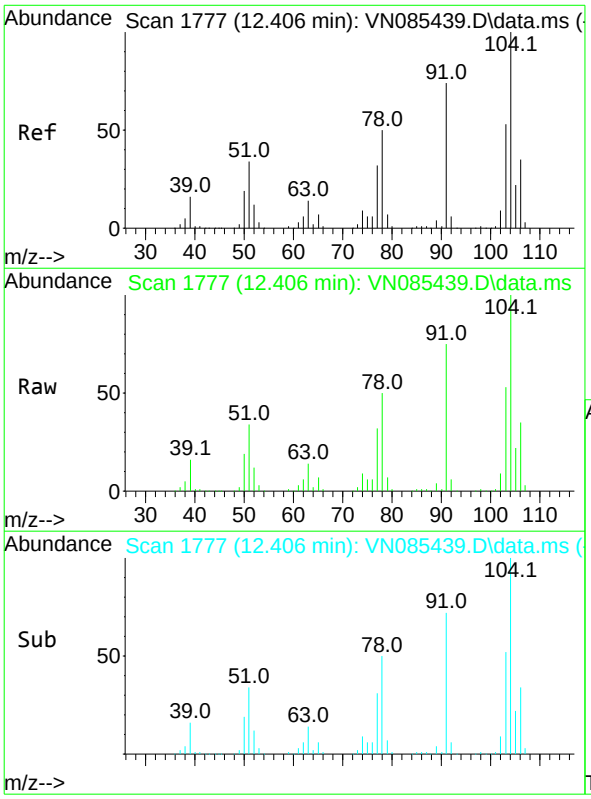
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.8 | 110.4 | 331.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

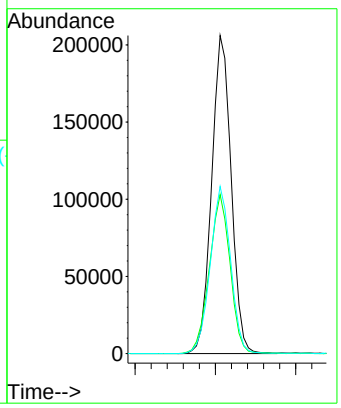


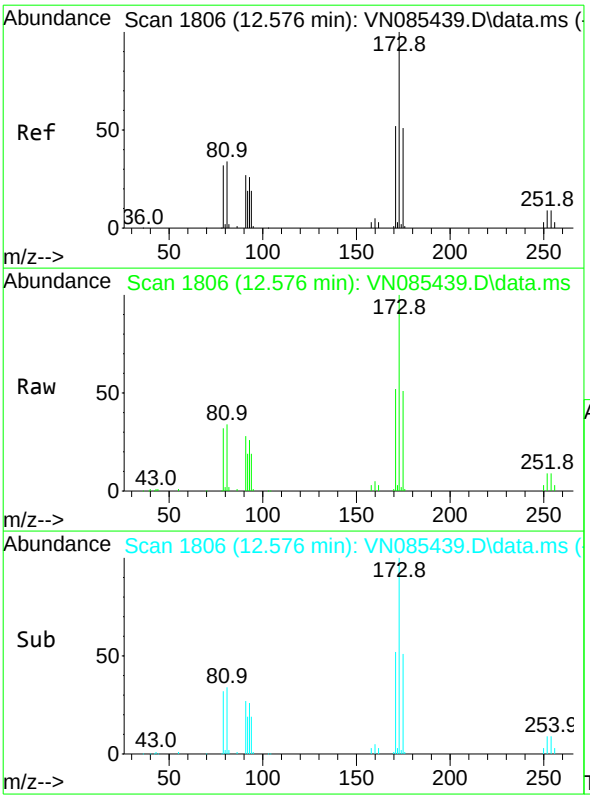




#70
Styrene
Concen: 56.227 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:104 Resp: 348720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.1 | 42.5 | 63.7 |
| 103 | 54.8 | 43.8 | 65.8 |






#71
Bromoform
Concen: 53.993 ug/l
RT: 12.576 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

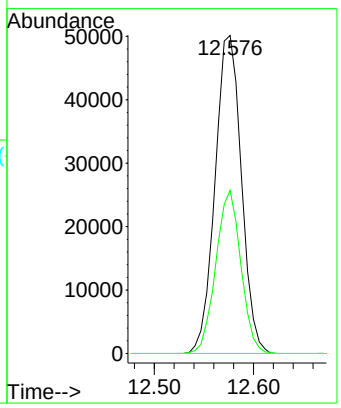
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

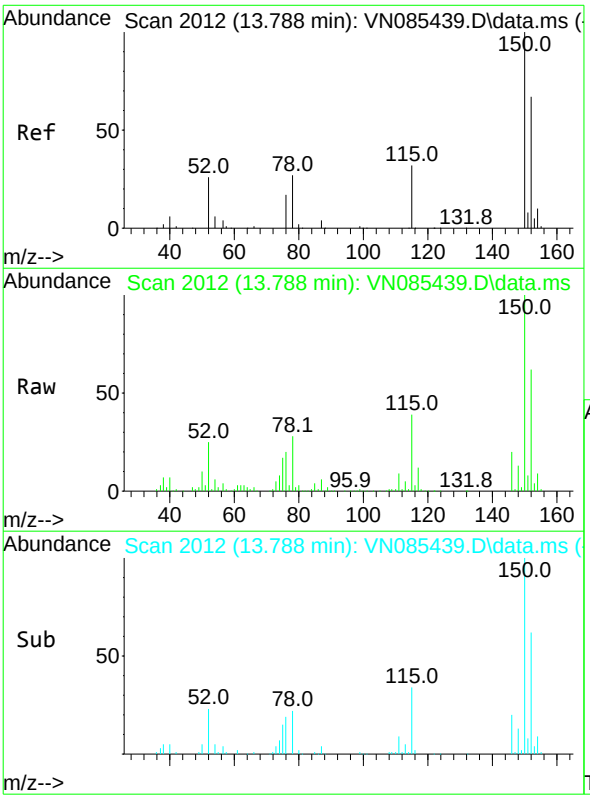
Tgt Ion:173 Resp: 92366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.8 | 24.4 | 73.2 |
| 254 | 0.0 | 0.0 | 0.0 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

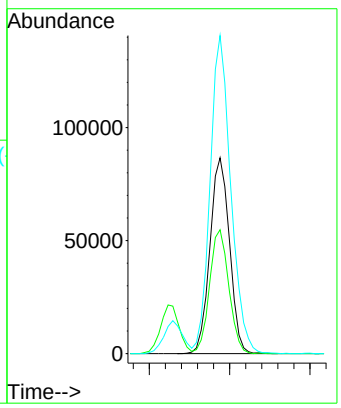


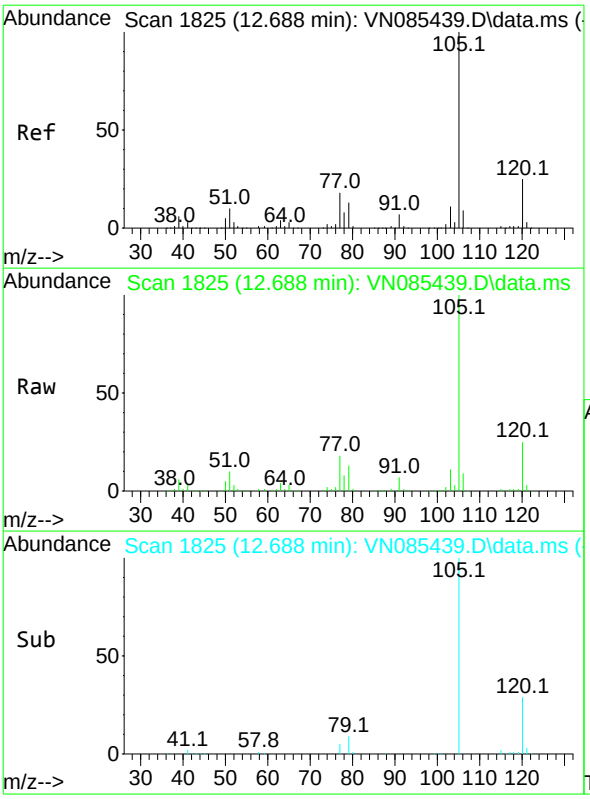




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:152 Resp: 146624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.2 | 31.1 | 93.3 |
| 150 | 171.8 | 0.0 | 343.6 |






#73
Isopropylbenzene
Concen: 51.094 ug/l
RT: 12.688 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:105 Resp: 505619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.5 | 12.8 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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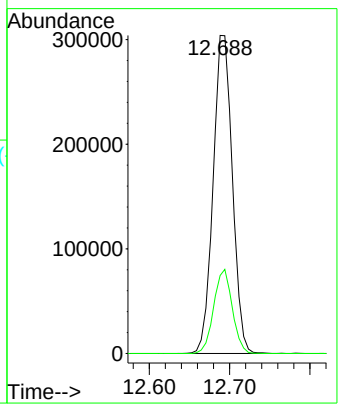
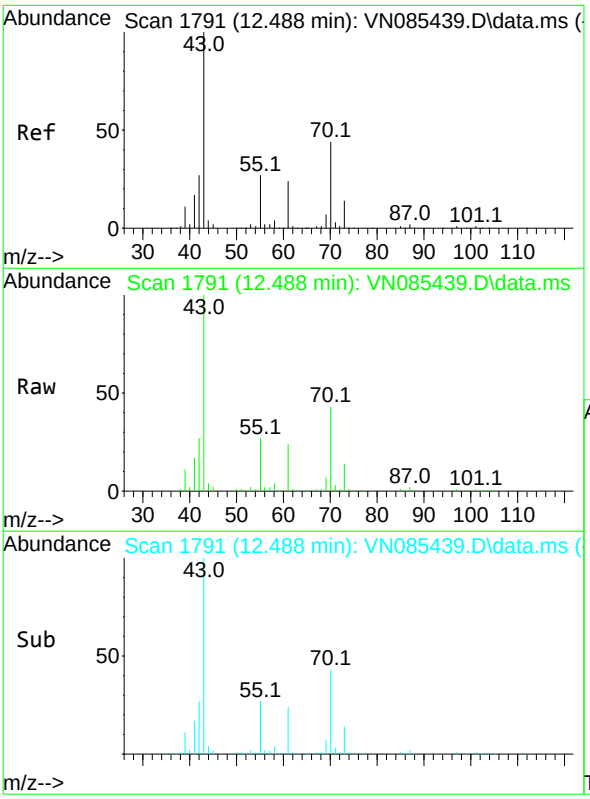
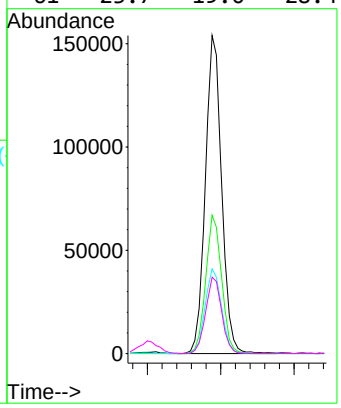


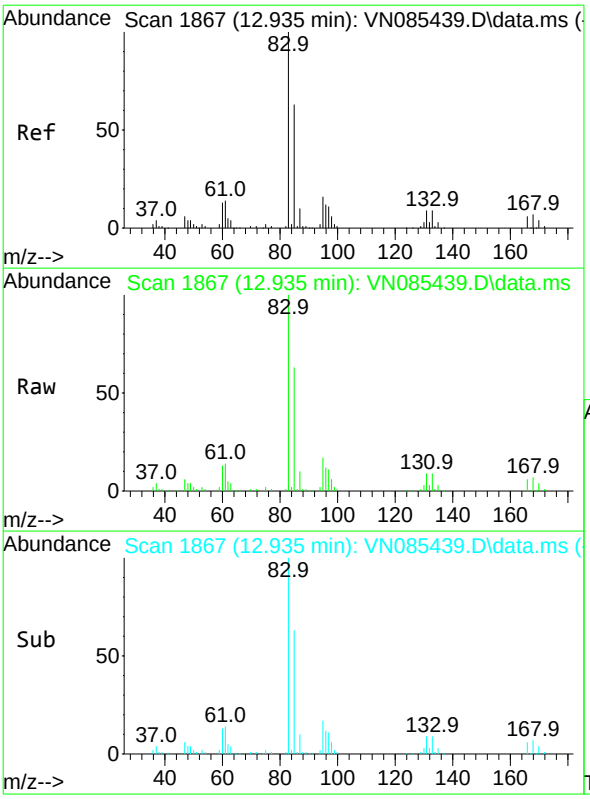




#74
N-amyl acetate
Concen: 53.478 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 237870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.5 | 34.0 | 51.0 |
| 55 | 26.8 | 21.4 | 32.2 |
| 61 | 23.7 | 19.0 | 28.4 |






#75
1,1,2,2-Tetrachloroethane
Concen: 48.019 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

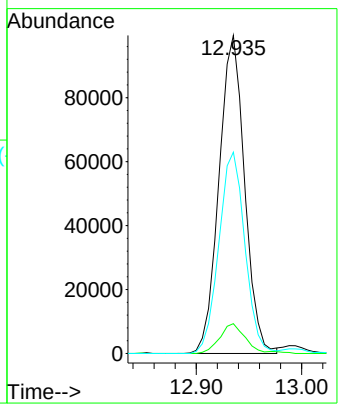
Tgt Ion: 83 Resp: 167856

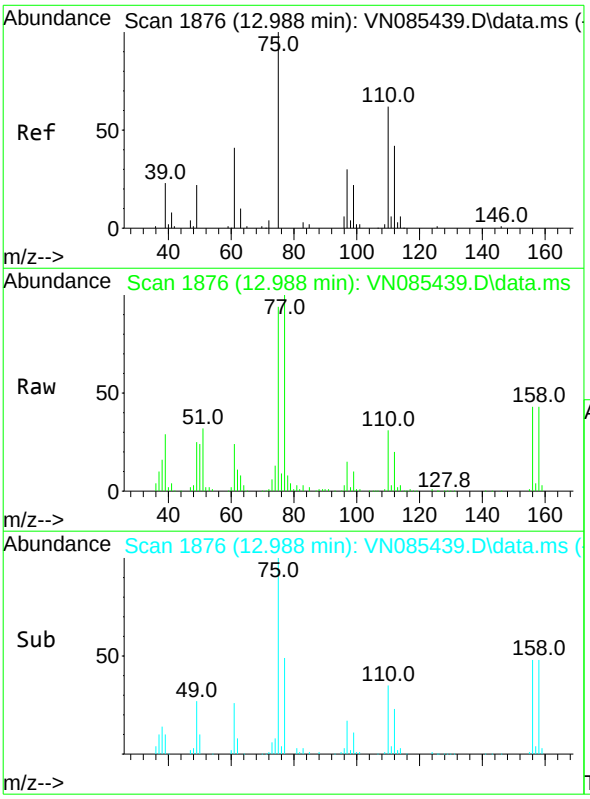
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.8 | 14.4 |
| 85 | 64.4 | 32.2 | 96.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

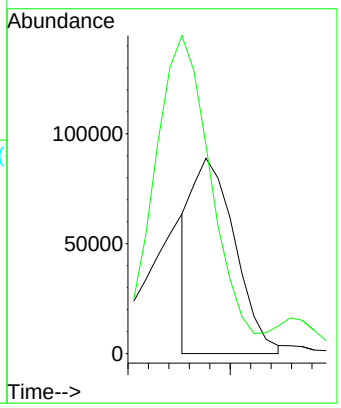


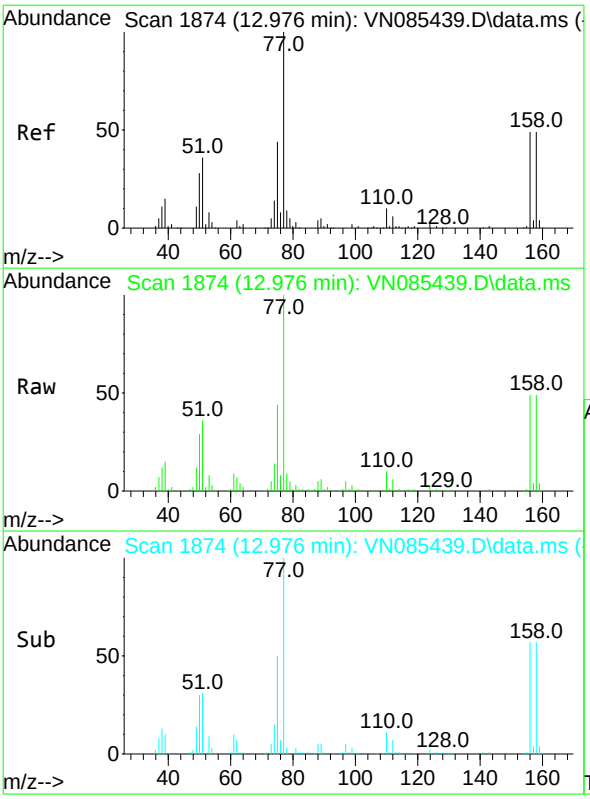




#76
1,2,3-Trichloropropane
Concen: 43.982 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 130866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 219.5 | 109.7 | 329.2 |






#77
Bromobenzene
Concen: 48.657 ug/l
RT: 12.976 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

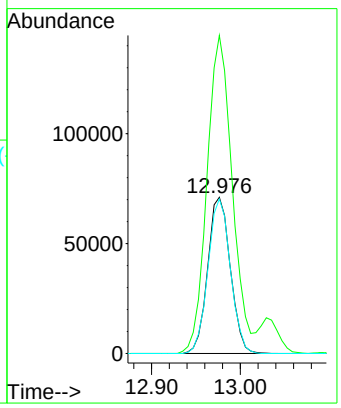
Tgt Ion:156 Resp: 125800

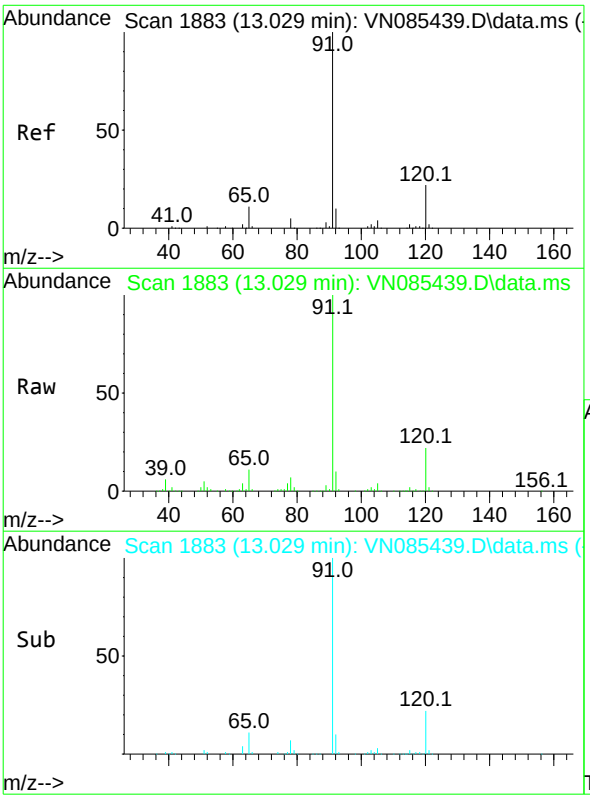
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 228.3 | 114.1 | 342.4 |
| 158 | 97.9 | 48.9 | 146.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

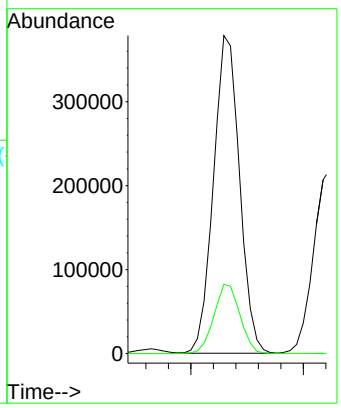


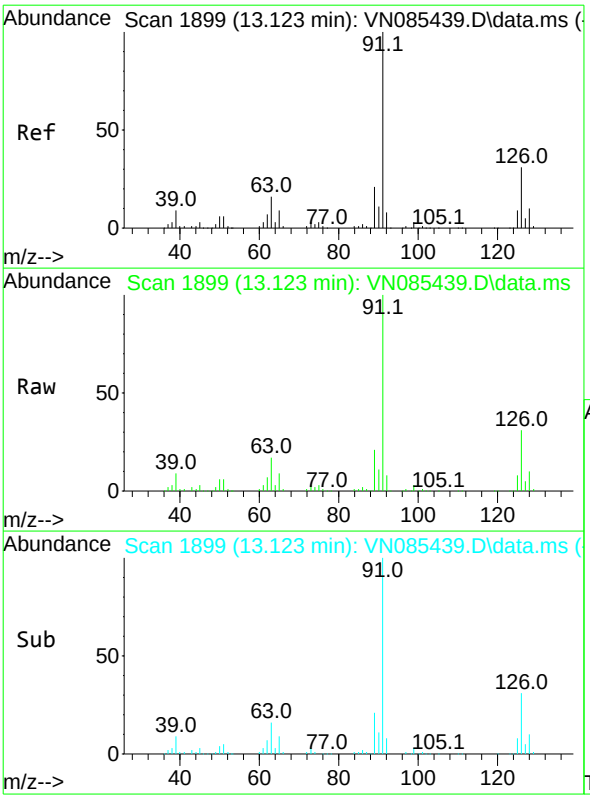




#78
n-propylbenzene
Concen: 51.986 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 91 Resp: 609022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.7 | 10.9 | 32.6 |






#79
2-Chlorotoluene
Concen: 49.985 ug/l
RT: 13.123 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

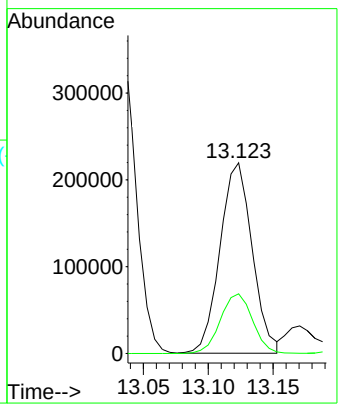
Tgt Ion: 91 Resp: 378981

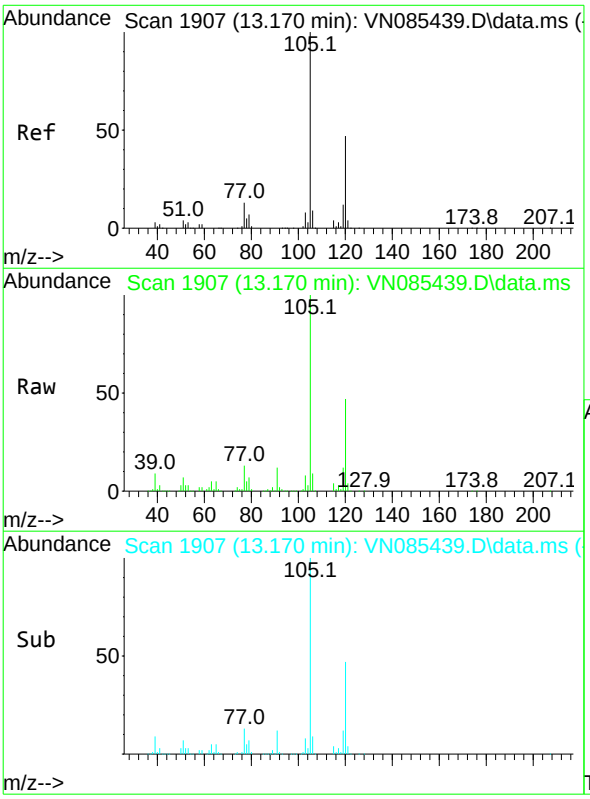
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.4 | 15.7 | 47.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

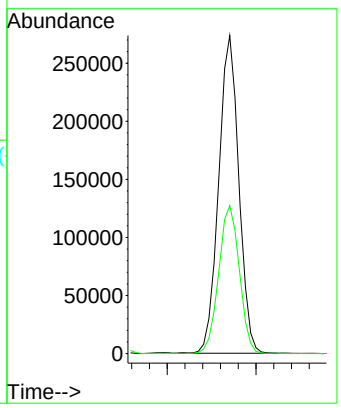


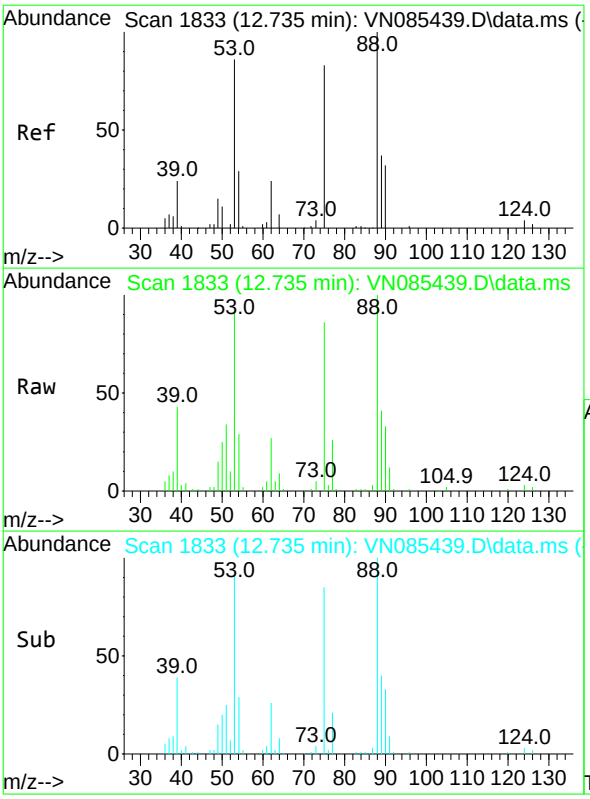




#80
1,3,5-Trimethylbenzene
Concen: 52.730 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:105 Resp: 431021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.8 | 23.9 | 71.7 |






#81
trans-1,4-Dichloro-2-butene
Concen: 51.914 ug/l
RT: 12.735 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 57184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 119.5 | 95.6 | 143.4 |
| 89 | 46.3 | 37.0 | 55.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

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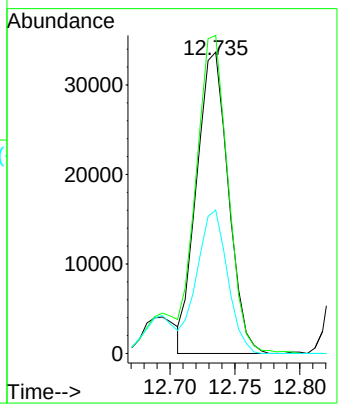
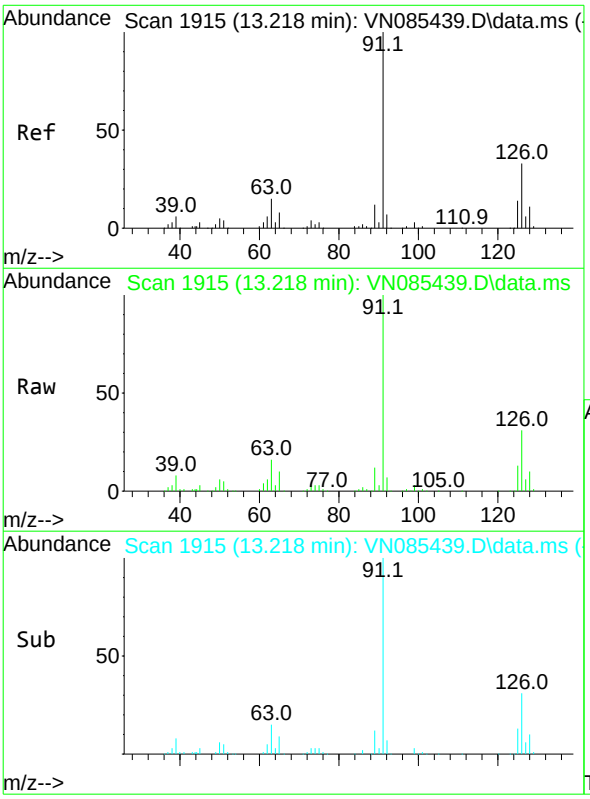
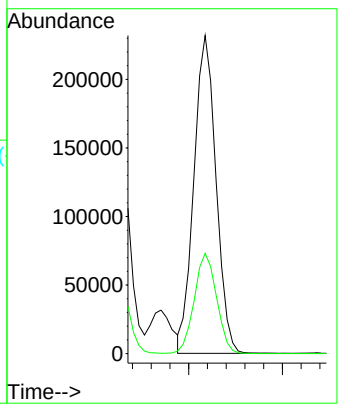


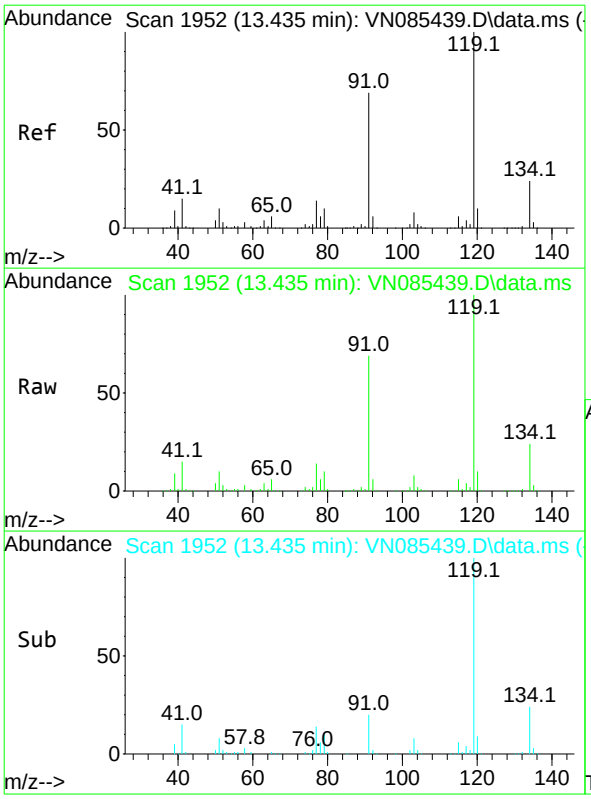




#82
4-Chlorotoluene
Concen: 50.273 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 91 Resp: 379524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.8 | 15.9 | 47.7 |






#83
tert-Butylbenzene
Concen: 52.090 ug/l
RT: 13.435 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

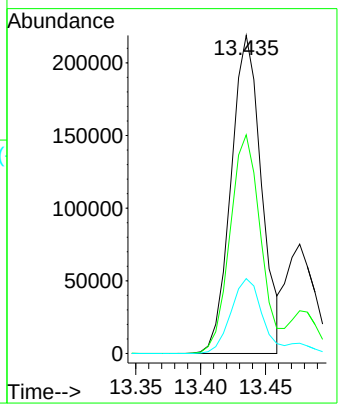
Tgt Ion:119 Resp: 357563

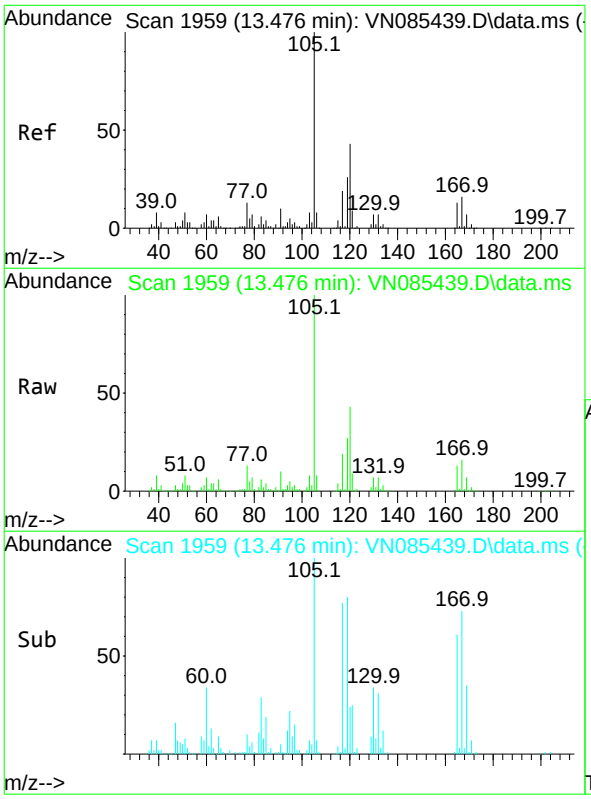
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 70.2 | 35.1 | 105.3 |
| 134 | 24.1 | 12.0 | 36.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

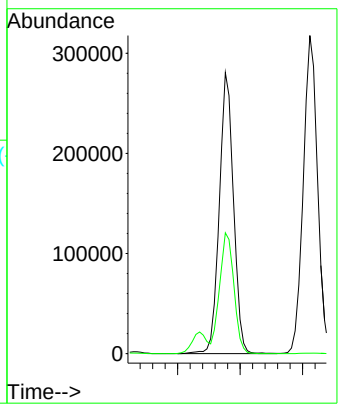


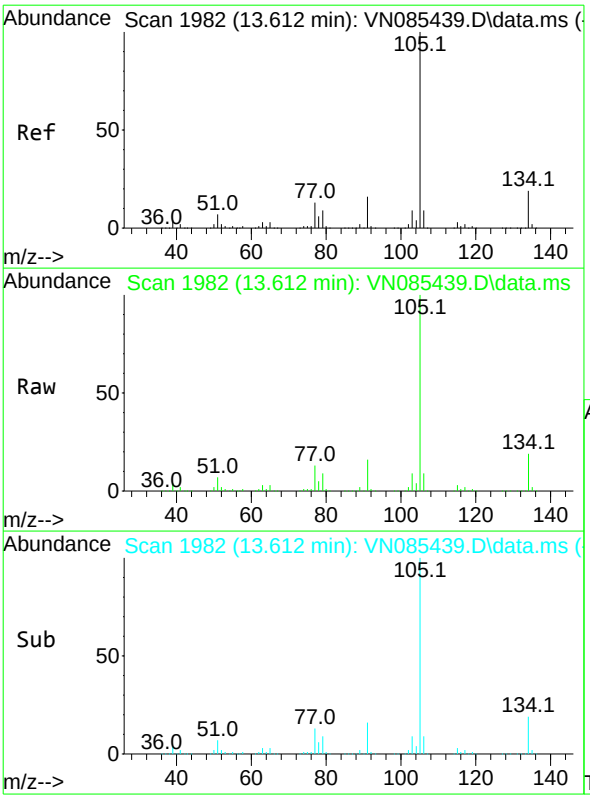




#84
1,2,4-Trimethylbenzene
Concen: 54.275 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:105 Resp: 442175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.3 | 21.6 | 65.0 |






#85
sec-Butylbenzene
Concen: 52.719 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

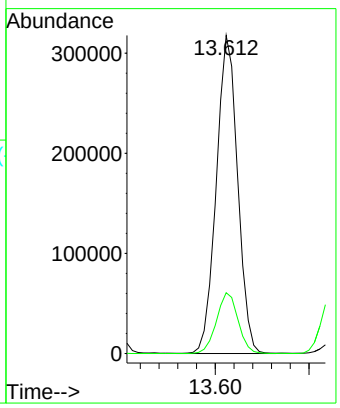
Tgt Ion:105 Resp: 501561

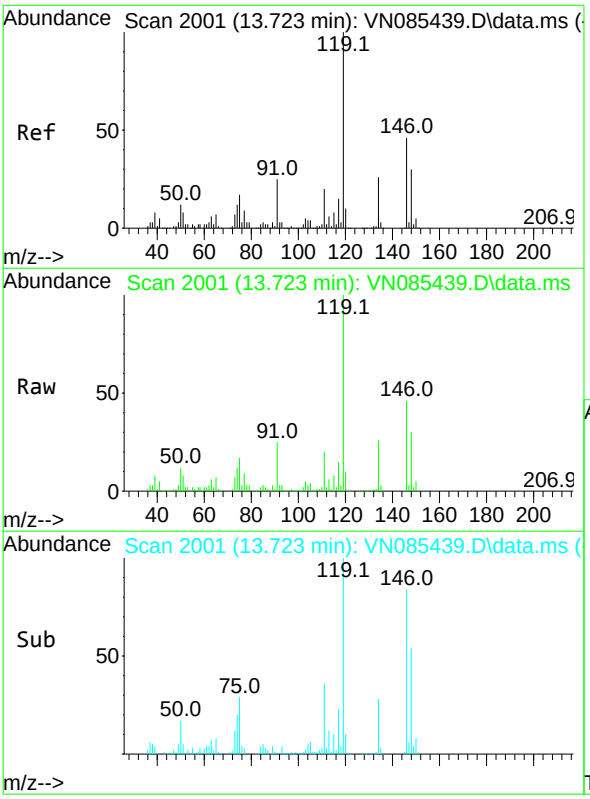
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.3 | 9.7 | 28.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

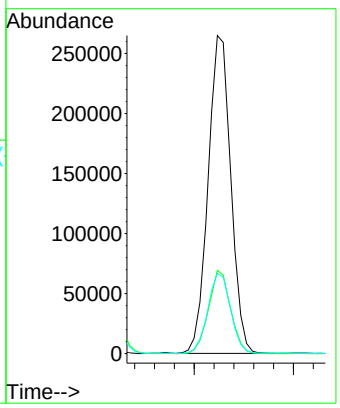


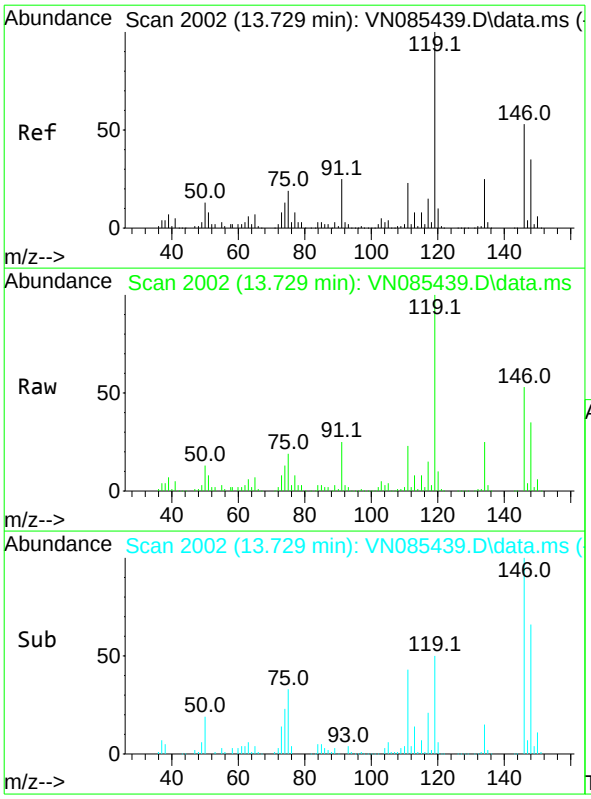




#86
p-Isopropyltoluene
Concen: 49.240 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:119 Resp: 421052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.3 | 12.7 | 38.0 |
| 91 | 25.4 | 12.7 | 38.1 |






#87
1,3-Dichlorobenzene
Concen: 48.204 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

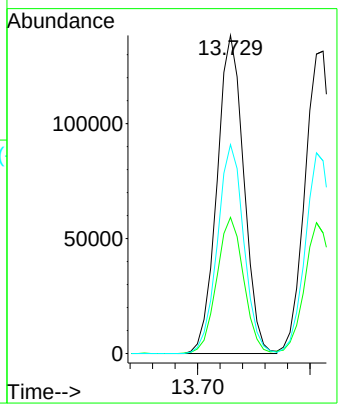
Tgt Ion:146 Resp: 229518

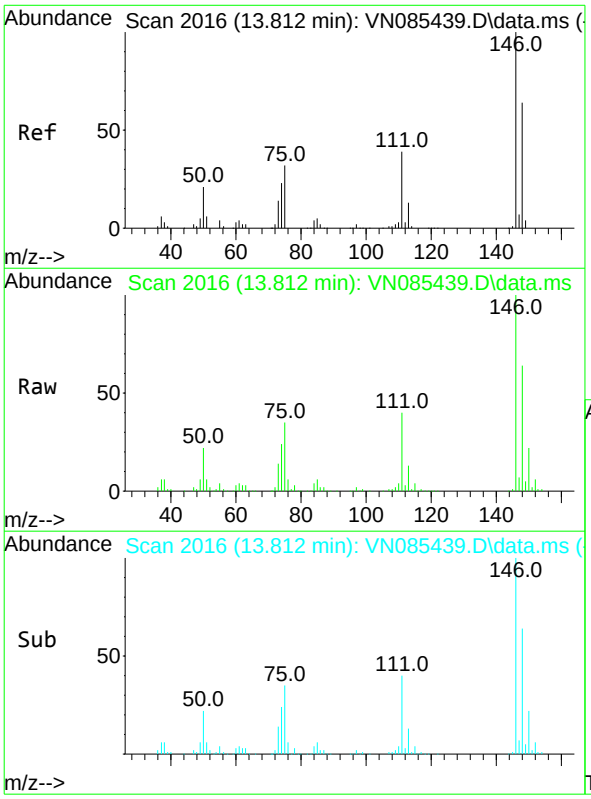
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.9 | 21.4 | 64.3 |
| 148 | 64.6 | 32.3 | 96.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

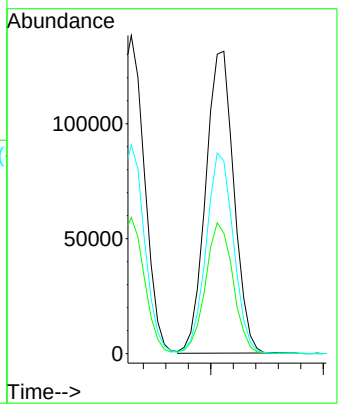


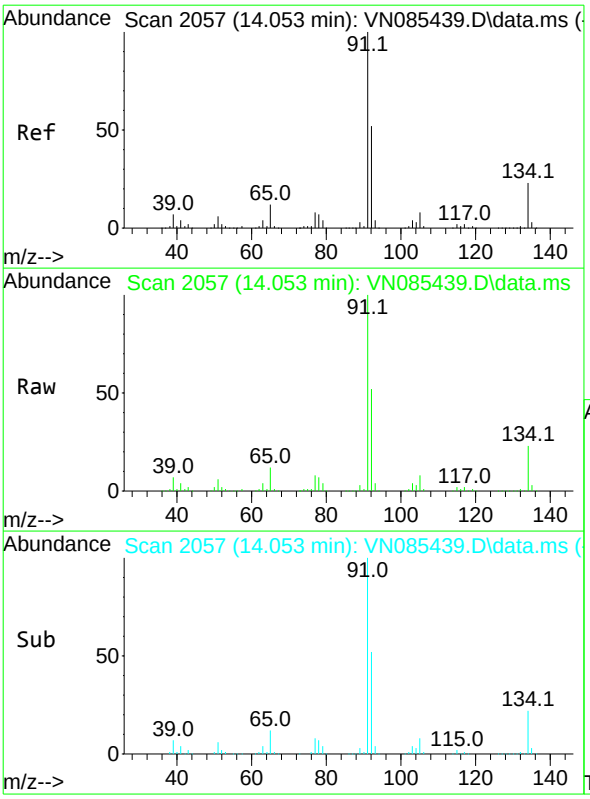




#88
1,4-Dichlorobenzene
Concen: 46.416 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:146 Resp: 229084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.5 | 21.3 | 63.7 |
| 148 | 64.7 | 32.4 | 97.0 |






#89
n-Butylbenzene
Concen: 53.348 ug/l
RT: 14.053 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 91 Resp: 364111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.5 | 25.8 | 77.3 |
| 134 | 23.4 | 11.7 | 35.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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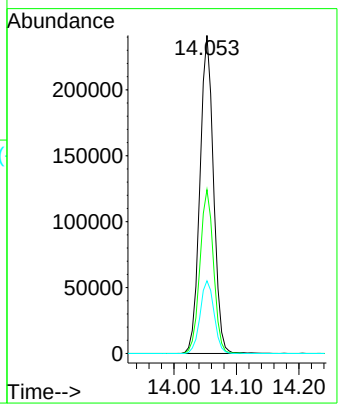
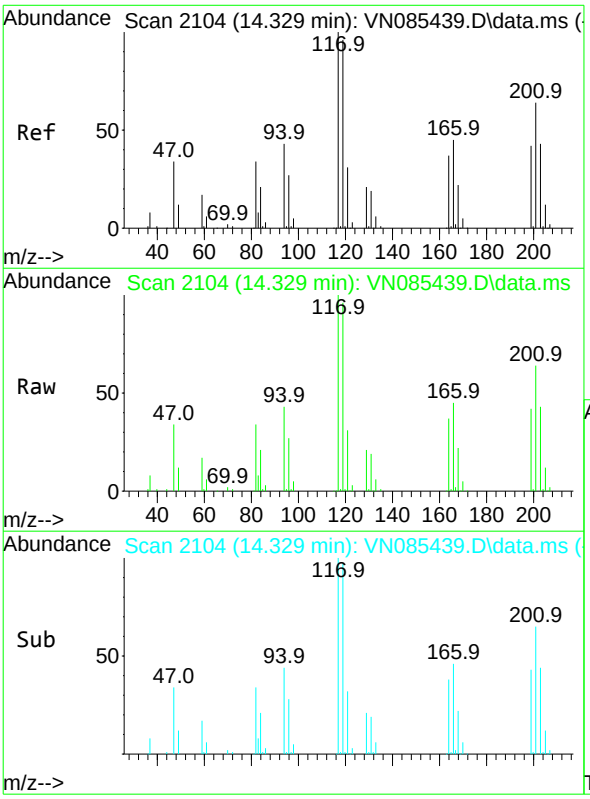
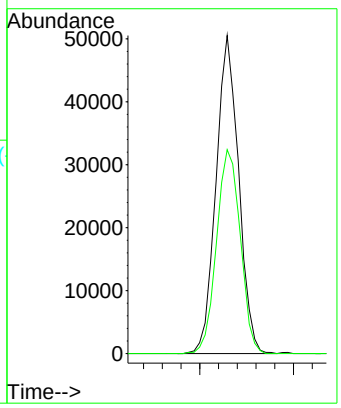


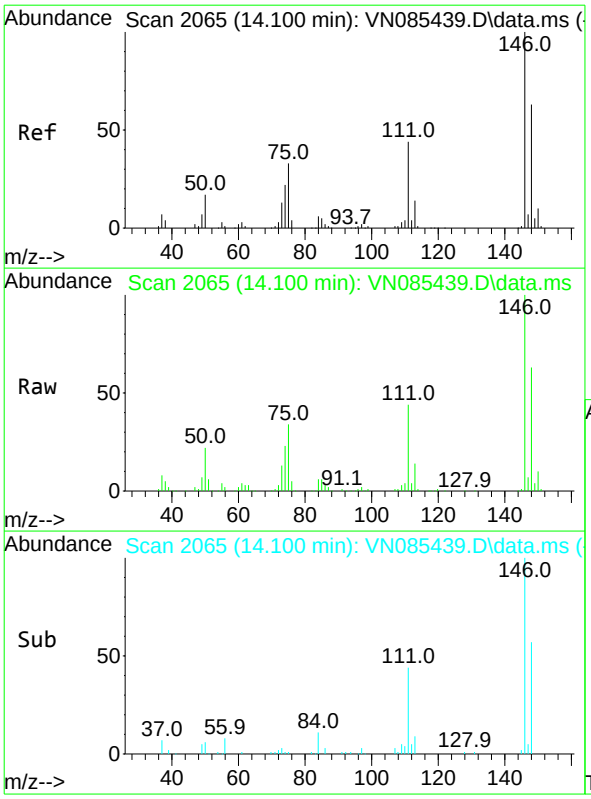




#90
Hexachloroethane
Concen: 46.712 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:117 Resp: 84602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 67.3 | 33.7 | 101.0 |






#91
1,2-Dichlorobenzene
Concen: 48.012 ug/l
RT: 14.100 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:146 Resp: 228024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.4 | 21.7 | 65.1 |
| 148 | 62.8 | 31.4 | 94.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

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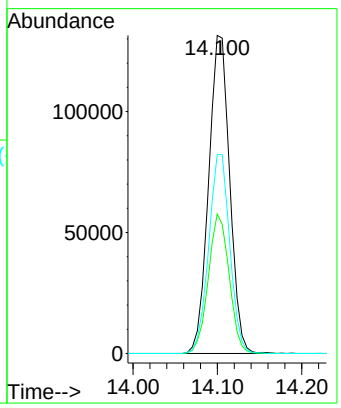
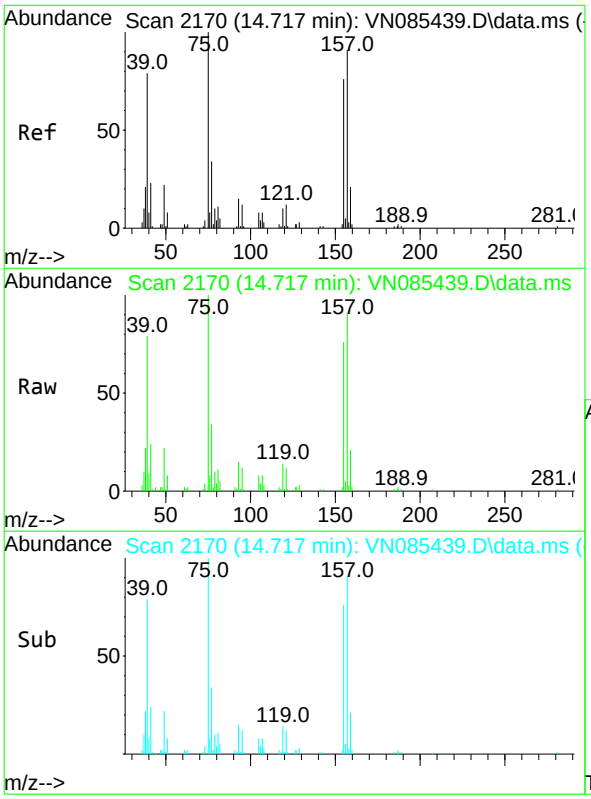
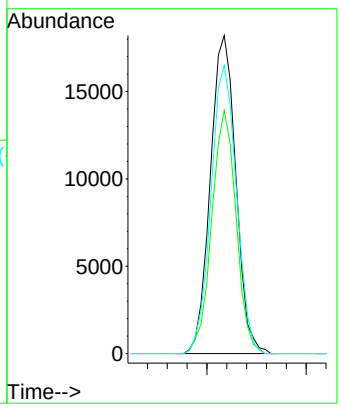


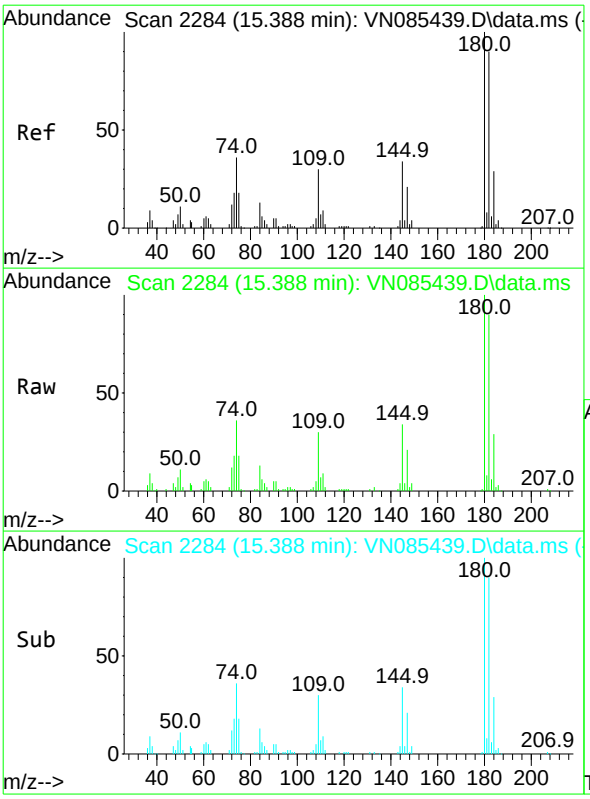




#92
1,2-Dibromo-3-Chloropropane
Concen: 50.971 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 32536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 72.8 | 36.4 | 109.2 |
| 157 | 90.7 | 45.4 | 136.1 |






#93
1,2,4-Trichlorobenzene
Concen: 51.857 ug/l
RT: 15.388 min Scan# 22
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:180 Resp: 114468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.5 | 46.8 | 140.3 |
| 145 | 32.0 | 16.0 | 48.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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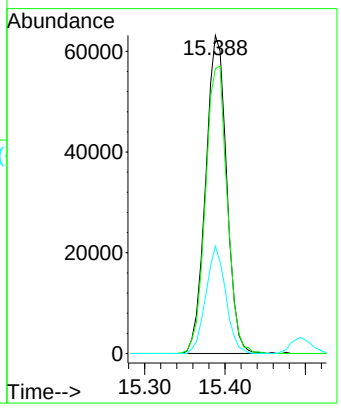
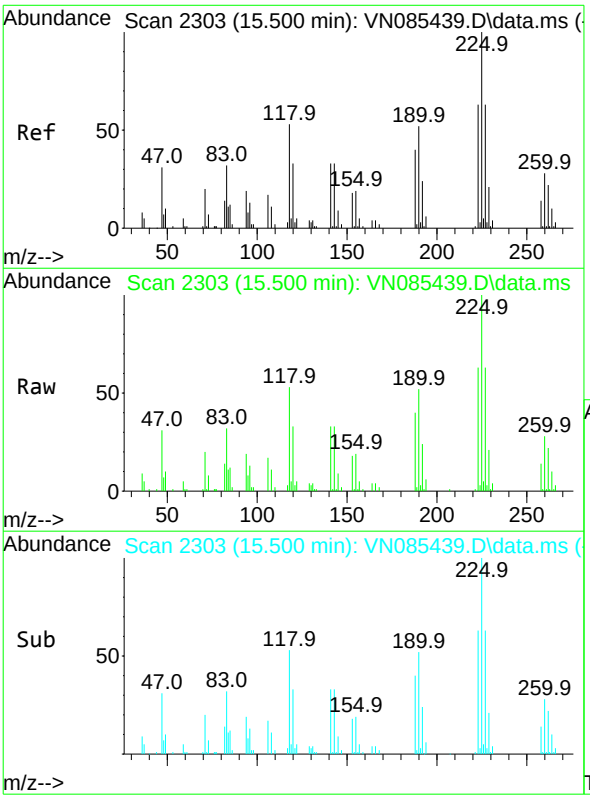
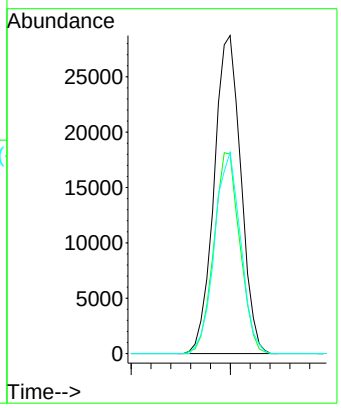


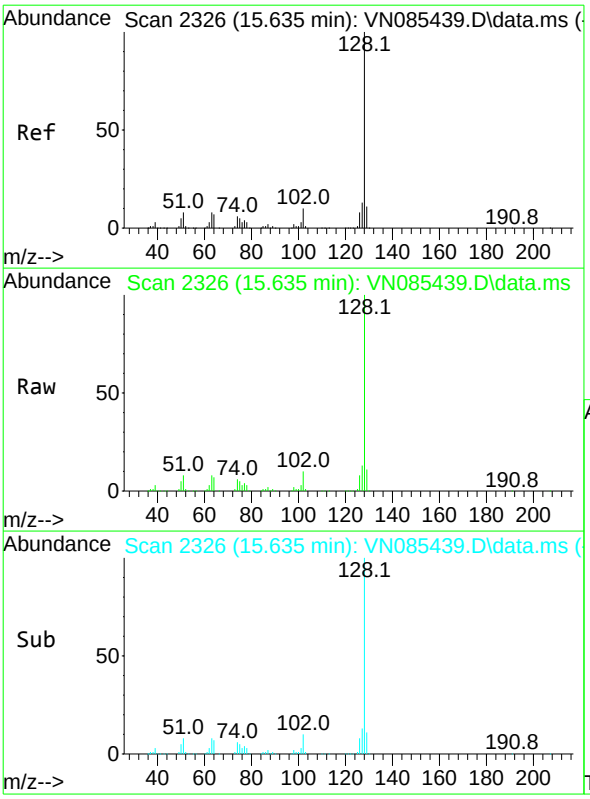




#94
Hexachlorobutadiene
Concen: 45.947 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:225 Resp: 53846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.4 | 30.7 | 92.1 |
| 227 | 61.7 | 30.9 | 92.5 |






#95
Naphthalene
Concen: 55.243 ug/l
RT: 15.635 min Scan# 23
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

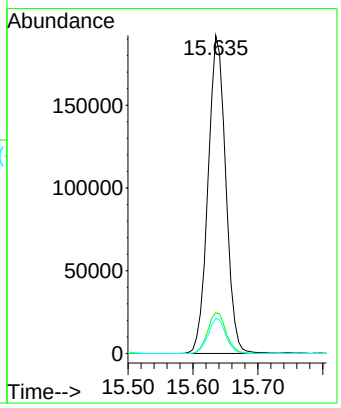
Tgt Ion:128 Resp: 363882

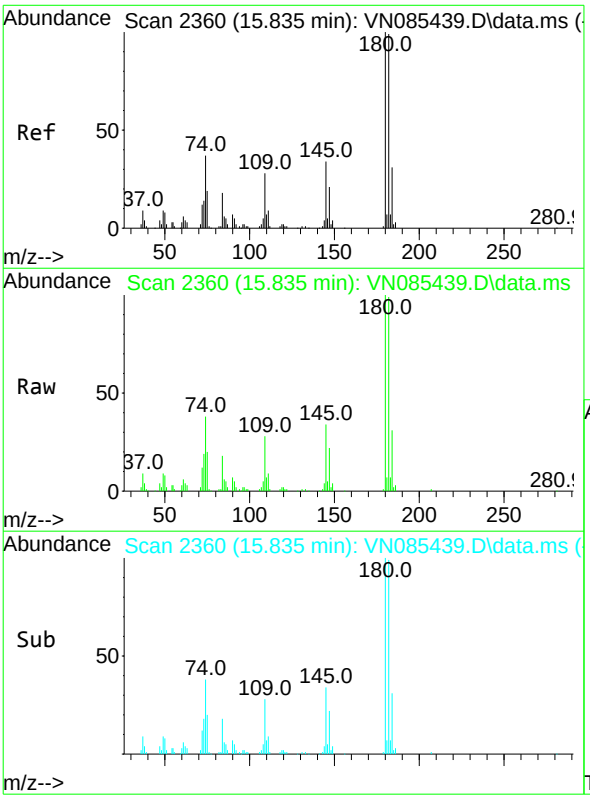
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.6 | 16.0 |
| 129 | 11.0 | 8.8 | 13.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

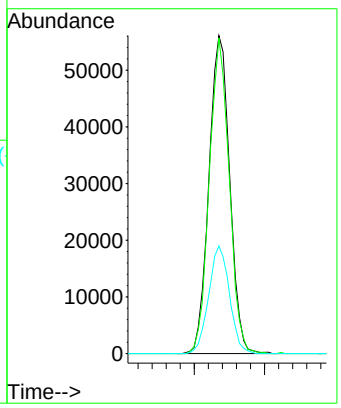



#96
1,2,3-Trichlorobenzene
Concen: 51.601 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:180 Resp: 115251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 47.4 | 142.2 |
| 145 | 33.8 | 16.9 | 50.7 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085440.D
Acq On : 14 Jan 2025 15:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 200796 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.094 | 114 | 340593 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 296298 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 143526 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.571 | 65 | 60593 | 18.694 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 37.380%# | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 45655 | 19.322 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 38.640%# | | | |
| 50) Toluene-d8 | 10.559 | 98 | 164391 | 19.581 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 39.160%# | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 55798 | 19.430 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 38.860%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 54666 | 20.107 | ug/l | 98 |
| 3) Chloromethane | 2.359 | 50 | 58426 | 19.848 | ug/l | 100 |
| 4) Vinyl Chloride | 2.512 | 62 | 58403 | 19.739 | ug/l | 99 |
| 5) Bromomethane | 2.954 | 94 | 36440 | 20.389 | ug/l | 94 |
| 6) Chloroethane | 3.118 | 64 | 37594 | 20.041 | ug/l | 93 |
| 7) Trichlorofluoromethane | 3.501 | 101 | 88121 | 20.526 | ug/l | 99 |
| 8) Diethyl Ether | 3.965 | 74 | 29138 | 19.647 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 48933 | 20.237 | ug/l | 99 |
| 10) Methyl Iodide | 4.589 | 142 | 56567 | 20.428 | ug/l | 93 |
| 11) Tert butyl alcohol | 5.506 | 59 | 37984 | 102.342 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 44670 | 20.728 | ug/l | 95 |
| 13) Acrolein | 4.171 | 56 | 49649 | 97.995 | ug/l | 99 |
| 14) Allyl chloride | 5.024 | 41 | 67705 | 19.362 | ug/l | 96 |
| 15) Acrylonitrile | 5.712 | 53 | 121626 | 103.171 | ug/l | 99 |
| 16) Acetone | 4.424 | 43 | 101065 | 96.502 | ug/l | 96 |
| 17) Carbon Disulfide | 4.712 | 76 | 132300 | 19.939 | ug/l | 98 |
| 18) Methyl Acetate | 5.018 | 43 | 60873 | 19.115 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.795 | 73 | 148847 | 21.272 | ug/l | 100 |
| 20) Methylene Chloride | 5.271 | 84 | 52813 | 20.370 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.789 | 96 | 46115 | 20.023 | ug/l | 98 |
| 22) Diisopropyl ether | 6.671 | 45 | 166719 | 21.480 | ug/l | 97 |
| 23) Vinyl Acetate | 6.594 | 43 | 588567m | 107.984 | ug/l | |
| 24) 1,1-Dichloroethane | 6.565 | 63 | 96875 | 20.469 | ug/l # | 96 |
| 25) 2-Butanone | 7.477 | 43 | 159952 | 103.786 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.483 | 77 | 79145 | 20.684 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.483 | 96 | 57454 | 21.180 | ug/l | 98 |
| 28) Bromochloromethane | 7.812 | 49 | 41181 | 18.703 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.836 | 42 | 104792 | 107.247 | ug/l | 99 |
| 30) Chloroform | 7.959 | 83 | 99655 | 20.374 | ug/l | 99 |
| 31) Cyclohexane | 8.253 | 56 | 82980 | 20.173 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 87659 | 20.431 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.371 | 75 | 67949 | 20.490 | ug/l | 98 |
| 37) Ethyl Acetate | 7.553 | 43 | 66443 | 19.850 | ug/l | 96 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 78842 | 20.767 | ug/l | 96 |
| 39) Methylcyclohexane | 9.594 | 83 | 65012 | 20.862 | ug/l | 96 |
| 40) Benzene | 8.600 | 78 | 207985 | 20.873 | ug/l | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085440.D
Acq On : 14 Jan 2025 15:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.771 | 41 | 36578 | 21.004 ug/l | 99 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 78402 | 20.891 ug/l | 99 |
| 43) Isopropyl Acetate | 8.683 | 43 | 109131 | 20.347 ug/l | 98 |
| 44) Trichloroethene | 9.347 | 130 | 48009 | 20.699 ug/l | 96 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 52833 | 20.758 ug/l | 93 |
| 46) Dibromomethane | 9.700 | 93 | 37721 | 20.540 ug/l | 98 |
| 47) Bromodichloromethane | 9.882 | 83 | 78918 | 21.093 ug/l | 96 |
| 48) Methyl methacrylate | 9.677 | 41 | 50224 | 20.808 ug/l | 96 |
| 49) 1,4-Dioxane | 9.688 | 88 | 17140 | 421.686 ug/l | 95 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 336911 | 108.249 ug/l | 100 |
| 52) Toluene | 10.630 | 92 | 125172 | 21.680 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.835 | 75 | 74129 | 20.965 ug/l | 96 |
| 54) cis-1,3-Dichloropropene | 10.306 | 75 | 81897 | 21.684 ug/l | 99 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 48039 | 21.025 ug/l | 97 |
| 56) Ethyl methacrylate | 10.871 | 69 | 70934 | 19.649 ug/l | 99 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 84210 | 21.196 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 153681 | 105.991 ug/l | 100 |
| 59) 2-Hexanone | 11.194 | 43 | 240595 | 109.863 ug/l | 98 |
| 60) Dibromochloromethane | 11.353 | 129 | 56069 | 20.326 ug/l | 96 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 48465 | 21.309 ug/l | 96 |
| 64) Tetrachloroethene | 11.100 | 164 | 43243 | 21.408 ug/l | 96 |
| 65) Chlorobenzene | 11.888 | 112 | 136809 | 21.077 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 48370 | 20.304 ug/l | 98 |
| 67) Ethyl Benzene | 11.959 | 91 | 229978 | 21.753 ug/l | 98 |
| 68) m/p-Xylenes | 12.071 | 106 | 177755 | 45.494 ug/l | 100 |
| 69) o-Xylene | 12.394 | 106 | 84548 | 22.643 ug/l | 98 |
| 70) Styrene | 12.412 | 104 | 140581 | 22.749 ug/l | 99 |
| 71) Bromoform | 12.576 | 173 | 36961 | 21.683 ug/l # | 96 |
| 73) Isopropylbenzene | 12.694 | 105 | 211354 | 21.819 ug/l | 100 |
| 74) N-amyl acetate | 12.494 | 43 | 94292 | 21.656 ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 68151 | 19.917 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 64180m | 22.036 ug/l | |
| 77) Bromobenzene | 12.976 | 156 | 52022 | 20.556 ug/l | 99 |
| 78) n-propylbenzene | 13.035 | 91 | 252610 | 22.028 ug/l | 100 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 158511 | 21.358 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 13.171 | 105 | 180294 | 22.533 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 22178m | 20.569 ug/l | |
| 82) 4-Chlorotoluene | 13.218 | 91 | 161880 | 21.906 ug/l | 100 |
| 83) tert-Butylbenzene | 13.435 | 119 | 147541 | 21.958 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.482 | 105 | 183144 | 22.965 ug/l | 99 |
| 85) sec-Butylbenzene | 13.612 | 105 | 209133 | 22.457 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.729 | 119 | 168888 | 21.661 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 97652 | 20.952 ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 13.806 | 146 | 98321 | 20.351 ug/l | 99 |
| 89) n-Butylbenzene | 14.053 | 91 | 142673 | 21.355 ug/l | 99 |
| 90) Hexachloroethane | 14.329 | 117 | 35205 | 19.858 ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 14.100 | 146 | 94954 | 20.425 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 12859 | 20.580 ug/l | 100 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 45878 | 21.233 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 22719 | 19.805 ug/l | 95 |
| 95) Naphthalene | 15.635 | 128 | 134793 | 20.906 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 45468 | 20.797 ug/l | 97 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085440.D
Acq On : 14 Jan 2025 15:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

ICAL Form

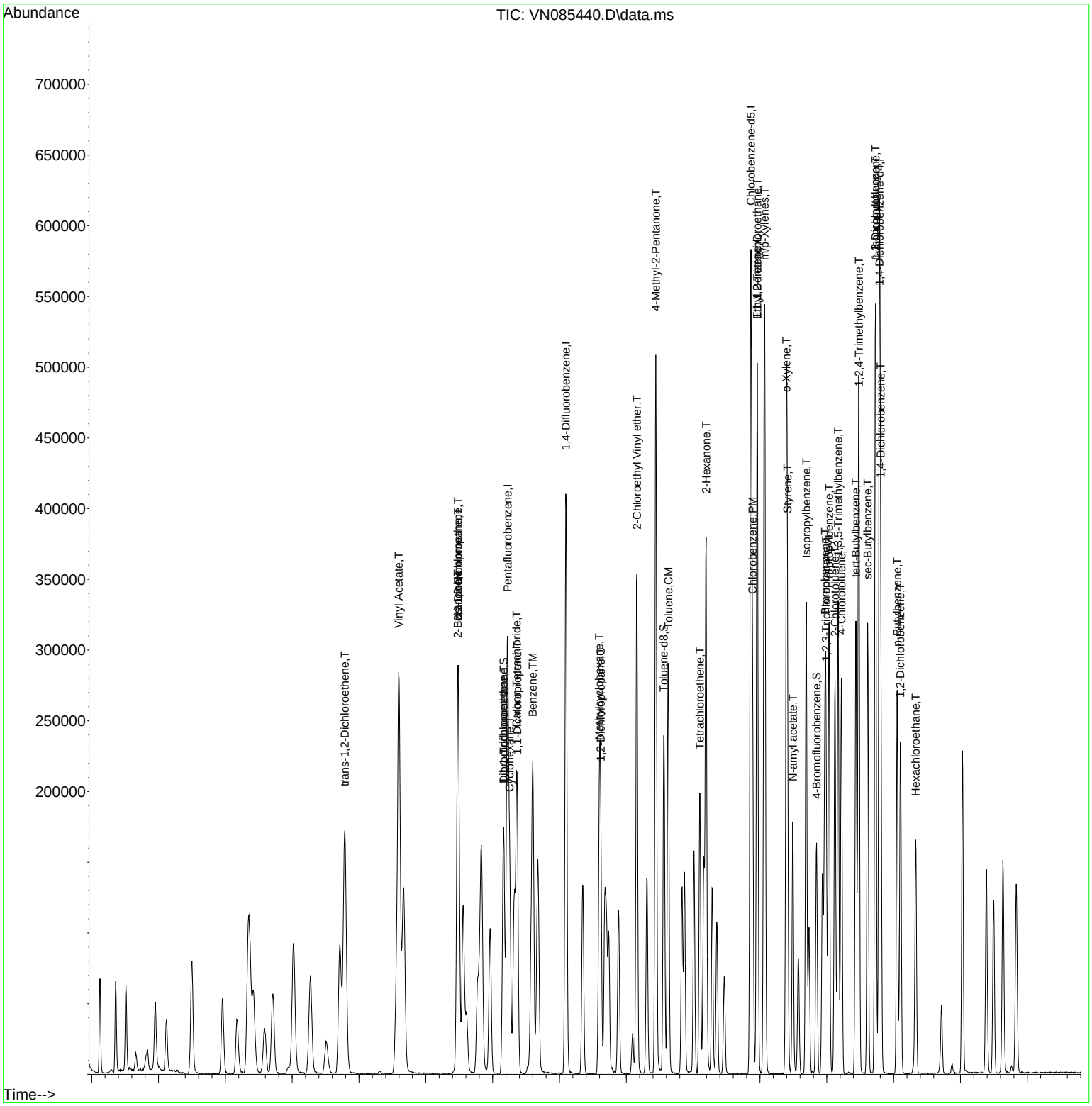
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085440.D
Acq On : 14 Jan 2025 15:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

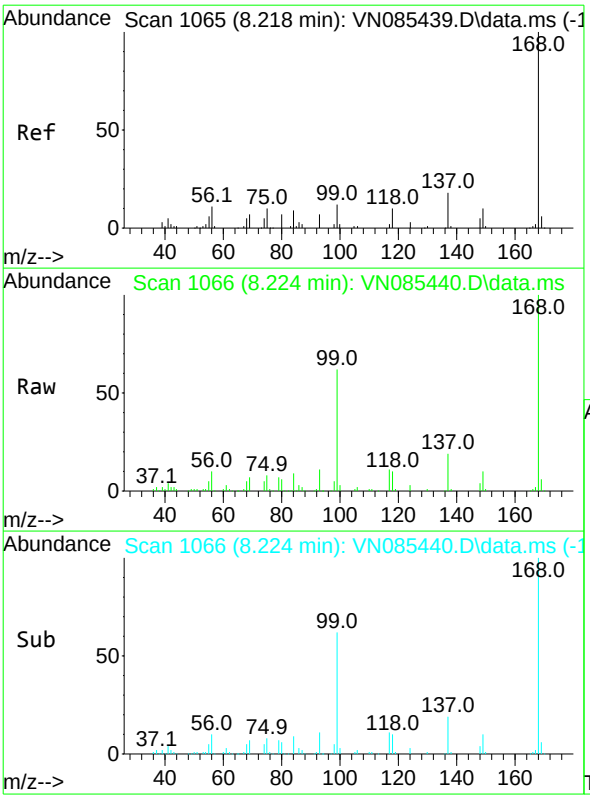
Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

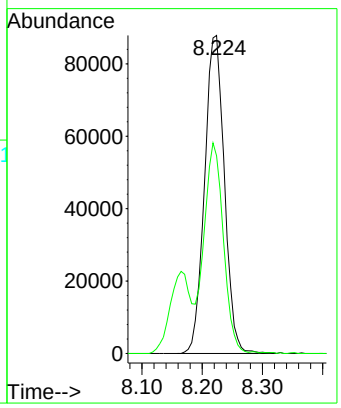
Tgt Ion:168 Resp: 200796

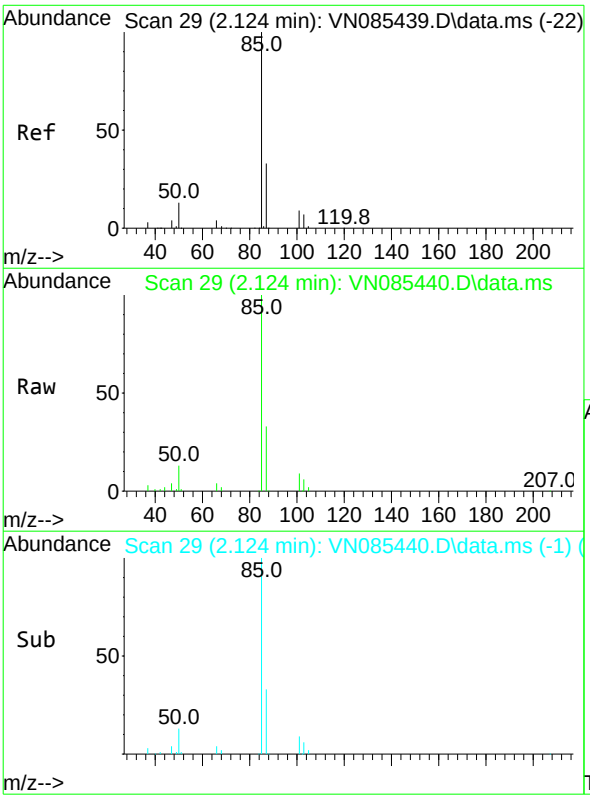
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.2 | 53.6 | 80.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

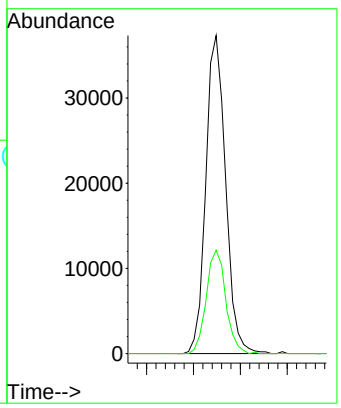


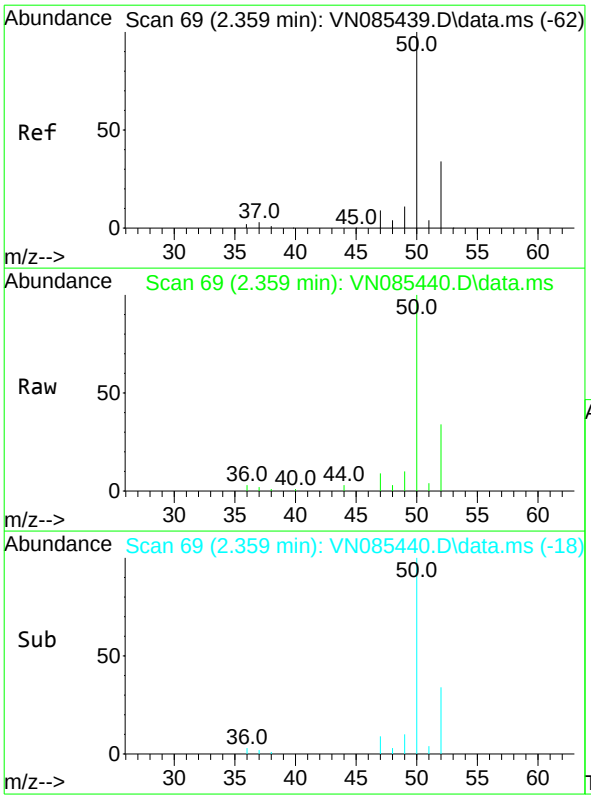




#2
Dichlorodifluoromethane
Concen: 20.107 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 85 Resp: 54666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 16.7 | 50.1 |






#3
Chloromethane
Concen: 19.848 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

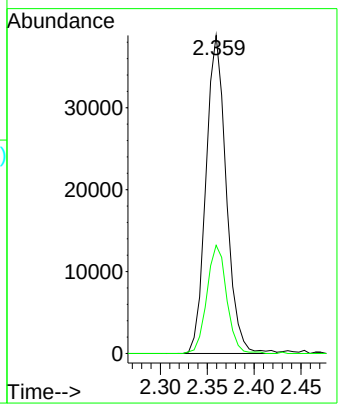
Tgt Ion: 50 Resp: 58426

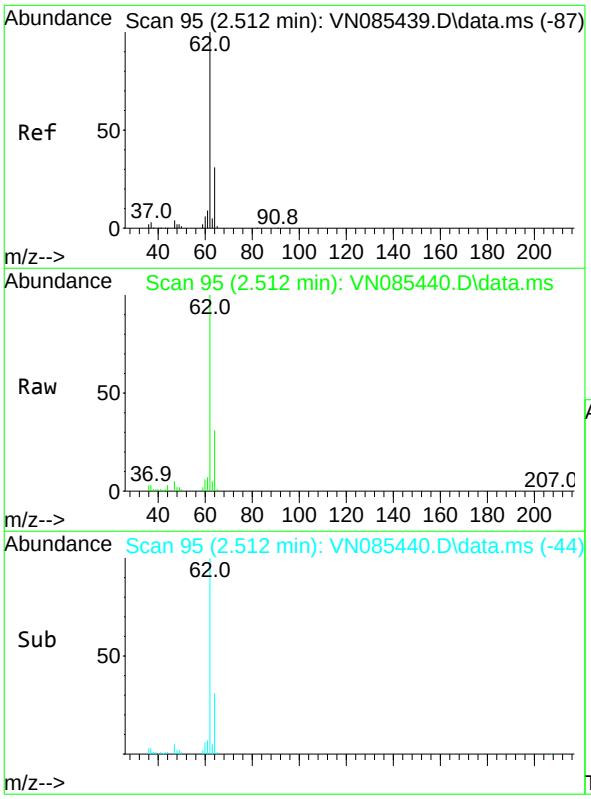
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.0 | 27.0 | 40.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

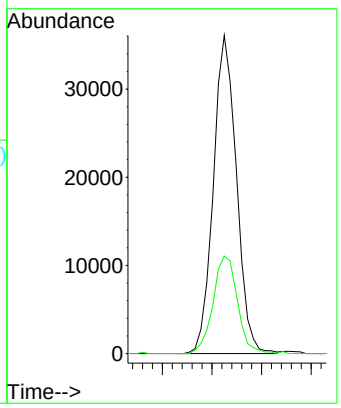


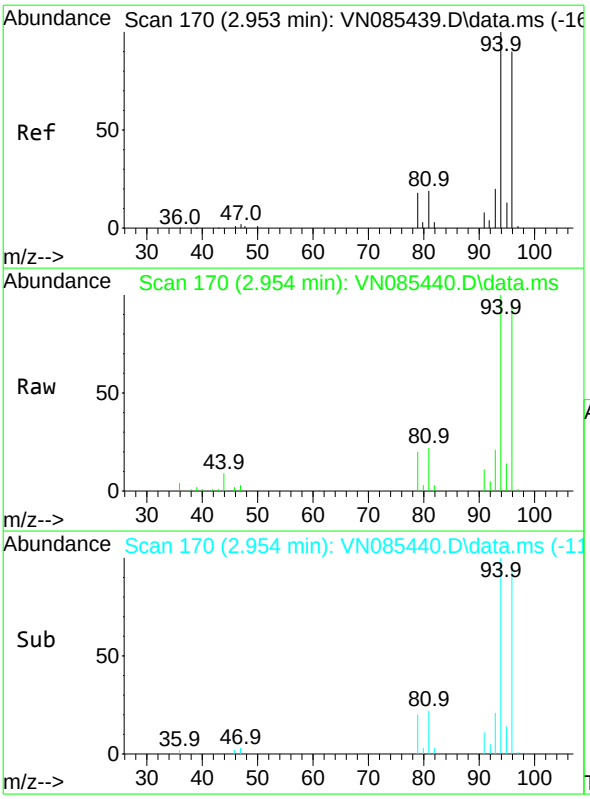




#4
Vinyl Chloride
Concen: 19.739 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 62 Resp: 58403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.7 | 24.8 | 37.2 |






#5
Bromomethane
Concen: 20.389 ug/l
RT: 2.954 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

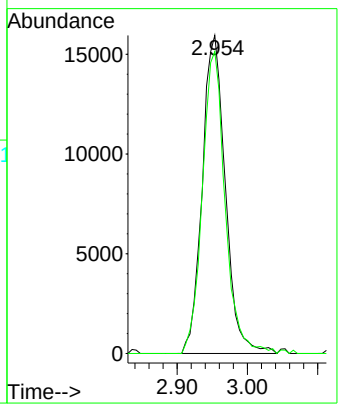
Tgt Ion: 94 Resp: 36440

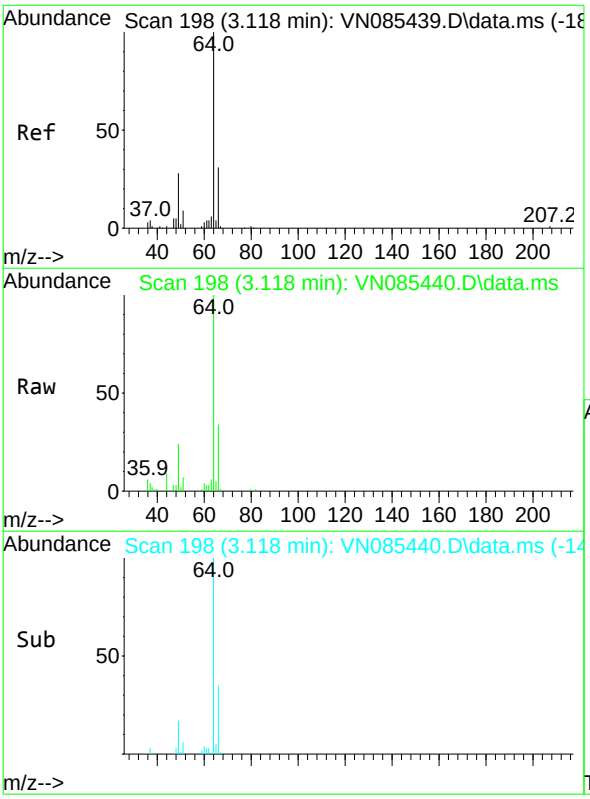
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.9 | 71.8 | 107.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

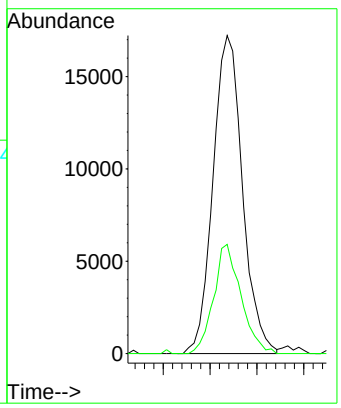


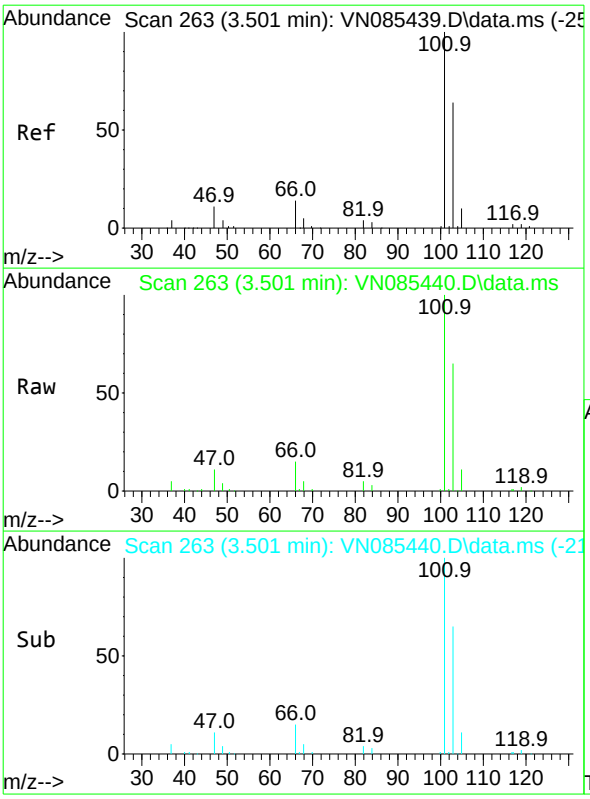




#6
Chloroethane
Concen: 20.041 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 64 Resp: 37594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.3 | 24.6 | 36.8 |






#7
Trichlorofluoromethane
Concen: 20.526 ug/l
RT: 3.501 min Scan# 26
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

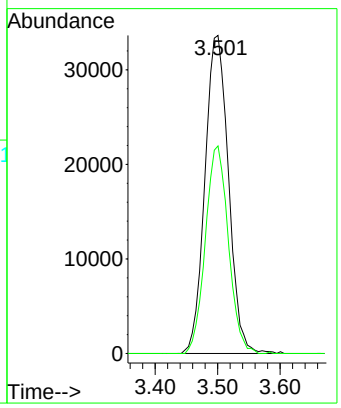
Tgt Ion:101 Resp: 88121

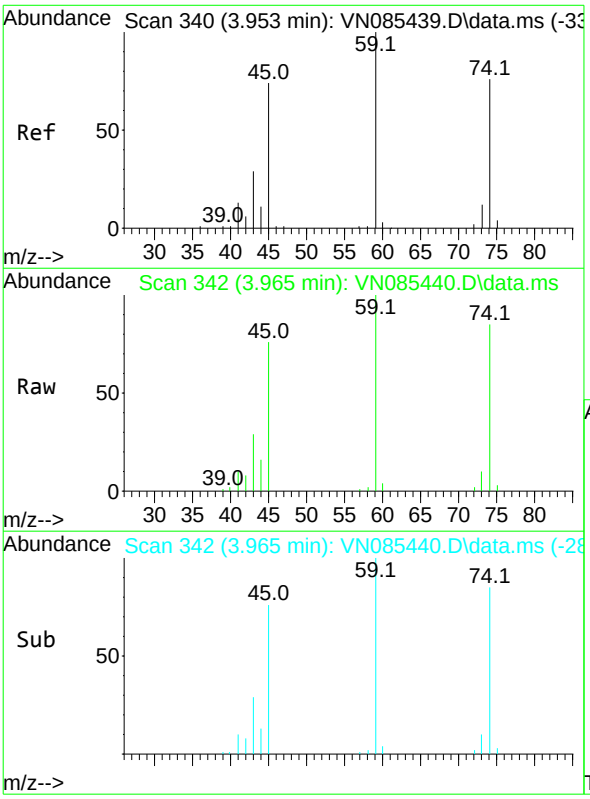
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.3 | 51.4 | 77.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

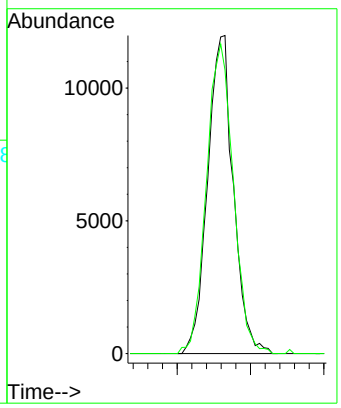


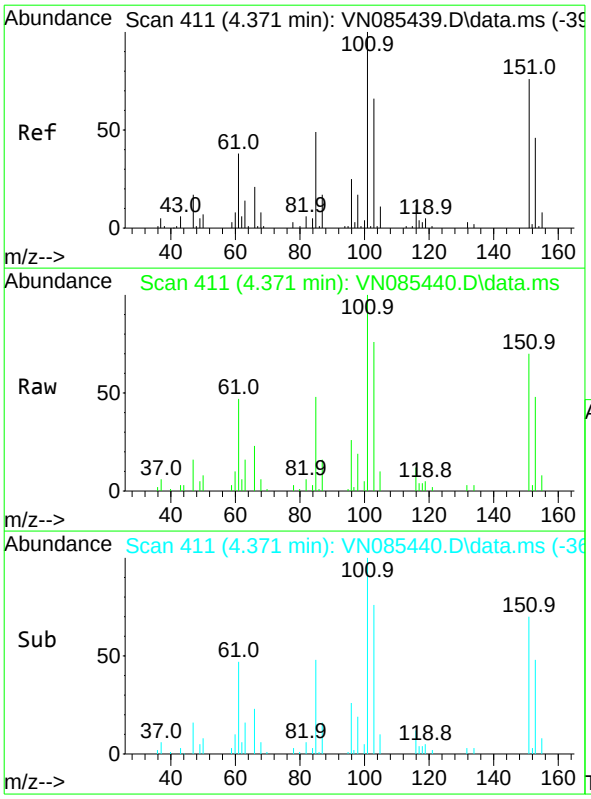




#8
Diethyl Ether
Concen: 19.647 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.012 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 74 Resp: 29138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 101.8 | 49.7 | 149.1 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.237 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

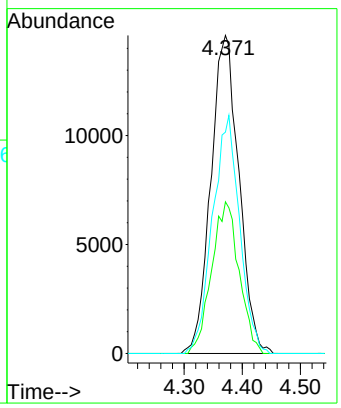
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

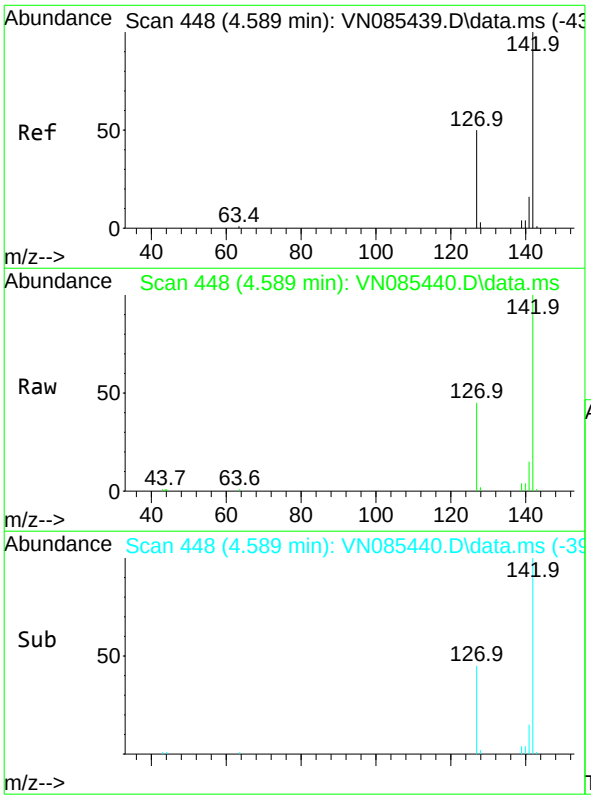
Tgt Ion:101 Resp: 48933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.6 | 37.8 | 56.8 |
| 151 | 72.1 | 58.8 | 88.2 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

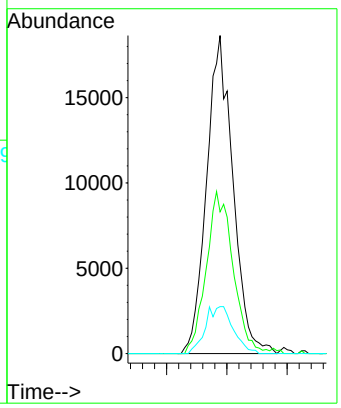


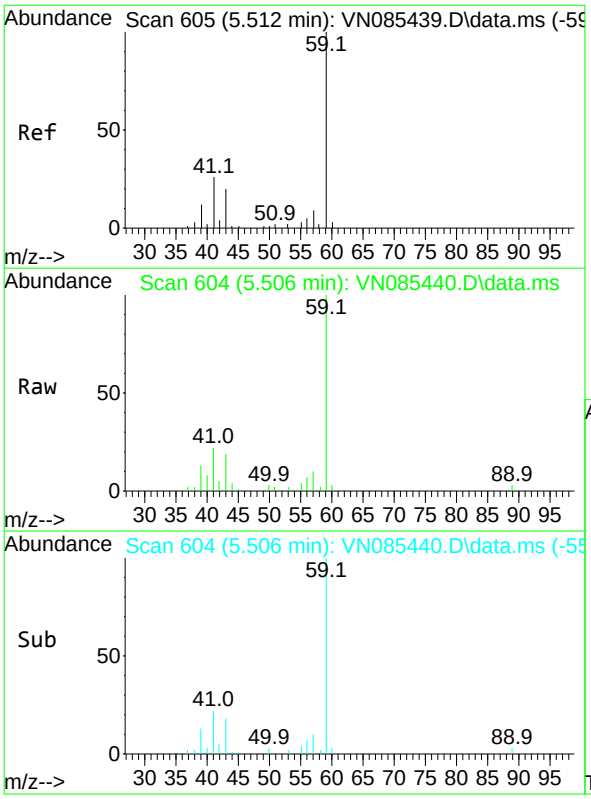




#10
Methyl Iodide
Concen: 20.428 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:142 Resp: 56567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.6 | 40.3 | 60.5 |
| 141 | 14.8 | 12.8 | 19.2 |






#11
Tert butyl alcohol
Concen: 102.342 ug/l
RT: 5.506 min Scan# 60
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

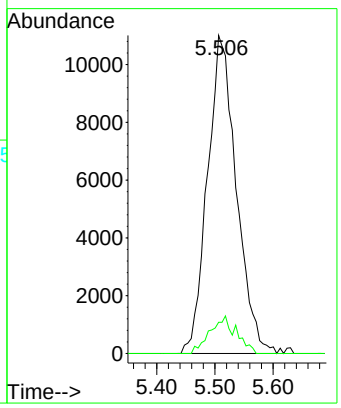
Tgt Ion: 59 Resp: 37984

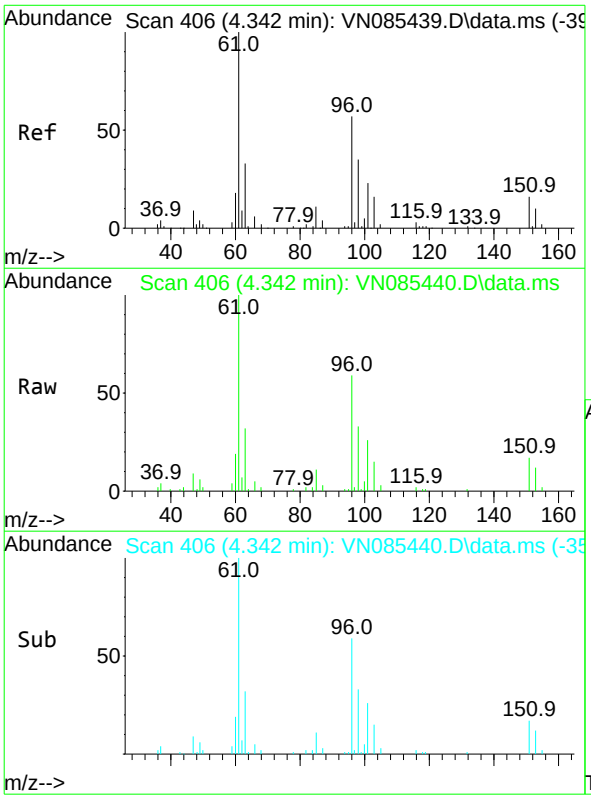
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.7 | 8.6 | 13.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

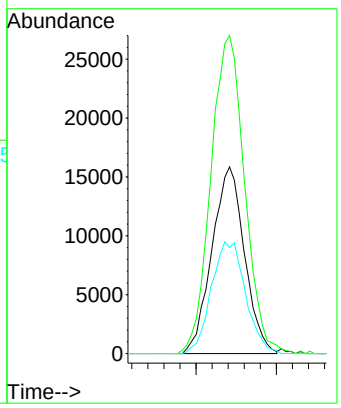


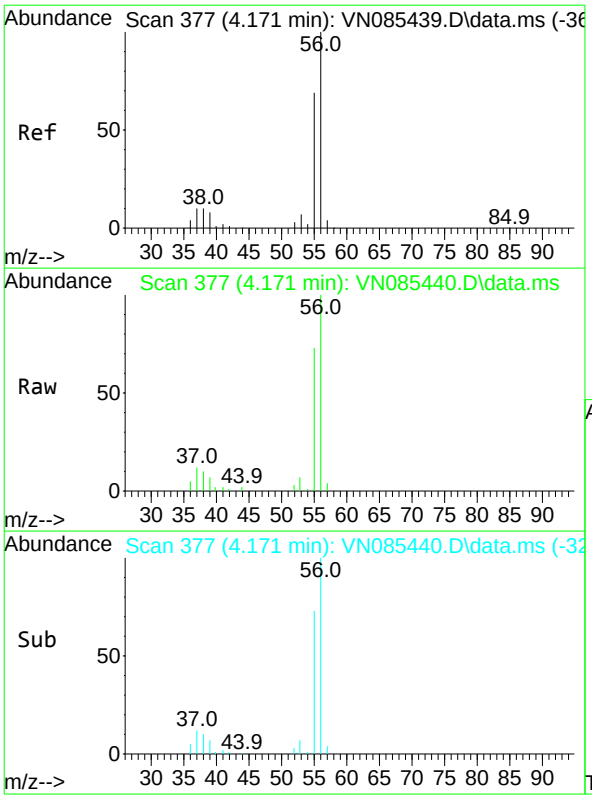




#12
1,1-Dichloroethene
Concen: 20.728 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 96 Resp: 44670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.3 | 141.0 | 211.4 |
| 98 | 56.8 | 49.0 | 73.6 |






#13
Acrolein
Concen: 97.995 ug/l
RT: 4.171 min Scan# 37
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

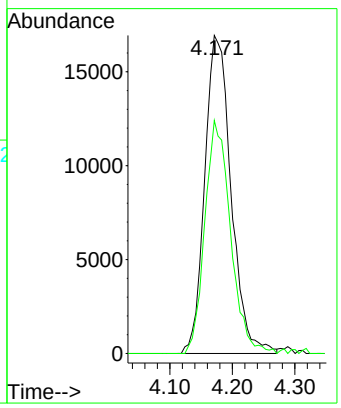
Tgt Ion: 56 Resp: 49649

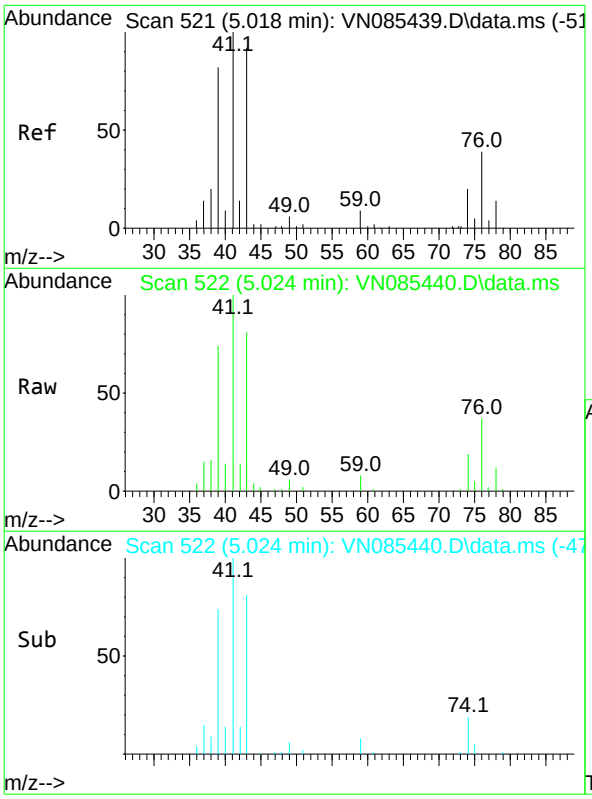
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.4 | 56.3 | 84.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

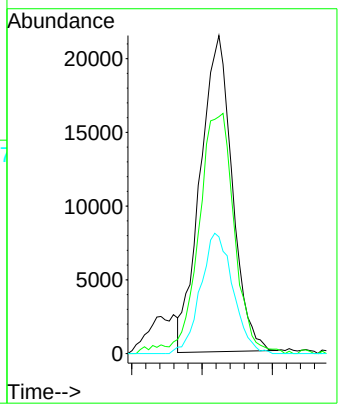


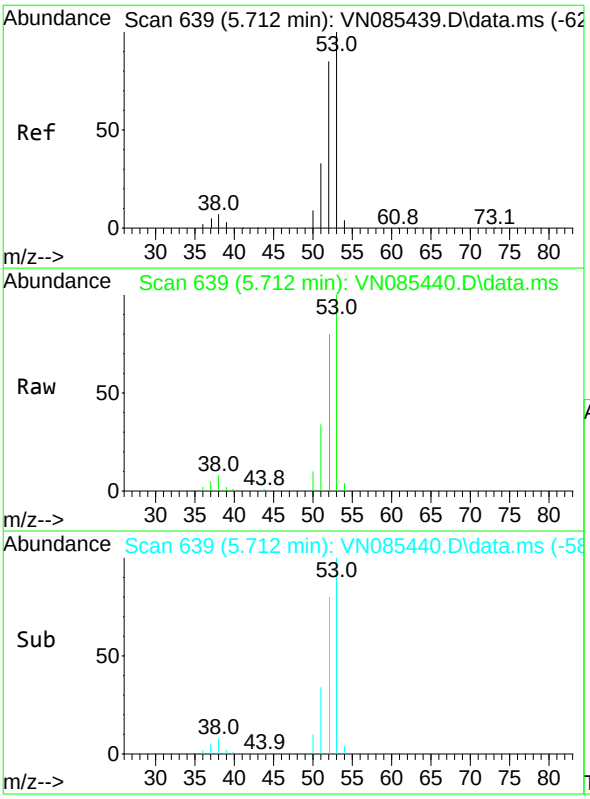




#14
Allyl chloride
Concen: 19.362 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 41 Resp: 67705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 85.0 | 64.4 | 96.6 |
| 76 | 38.6 | 30.5 | 45.7 |






#15
Acrylonitrile
Concen: 103.171 ug/l
RT: 5.712 min Scan# 63
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

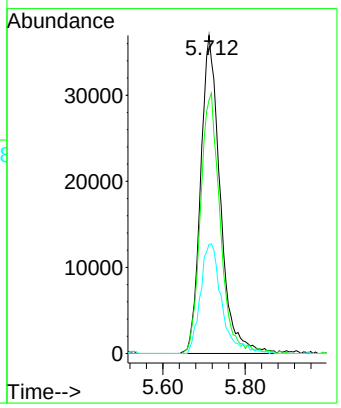
Tgt Ion: 53 Resp: 121626

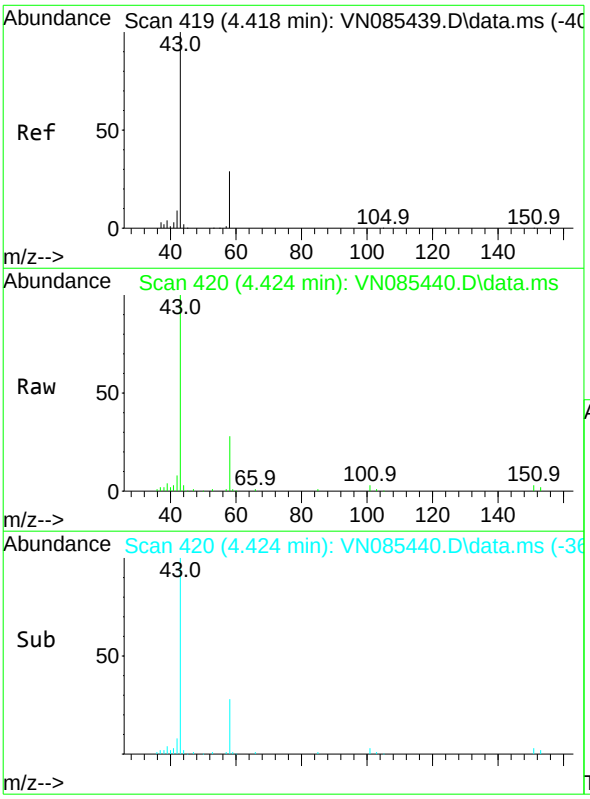
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.1 | 65.5 | 98.3 |
| 51 | 36.1 | 29.8 | 44.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

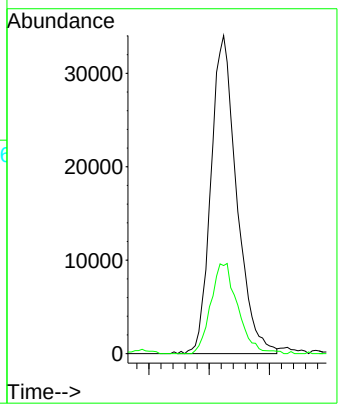


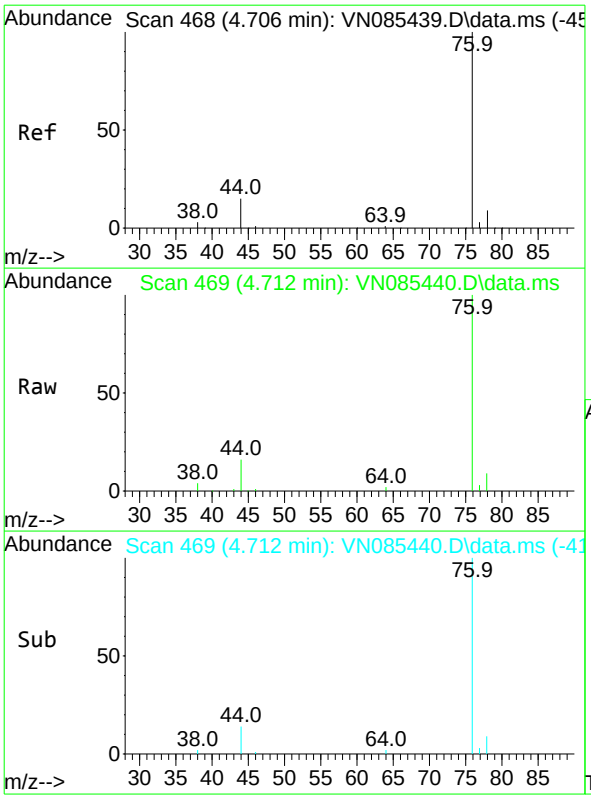




#16
Acetone
Concen: 96.502 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 101065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.7 | 23.8 | 35.6 |






#17
Carbon Disulfide
Concen: 19.939 ug/l
RT: 4.712 min Scan# 46
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

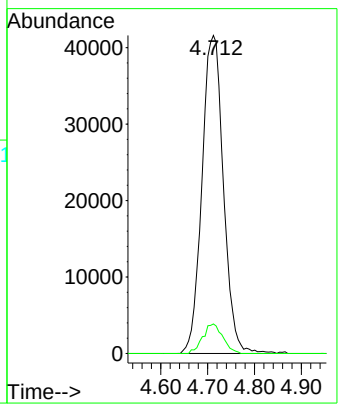
Tgt Ion: 76 Resp: 132300

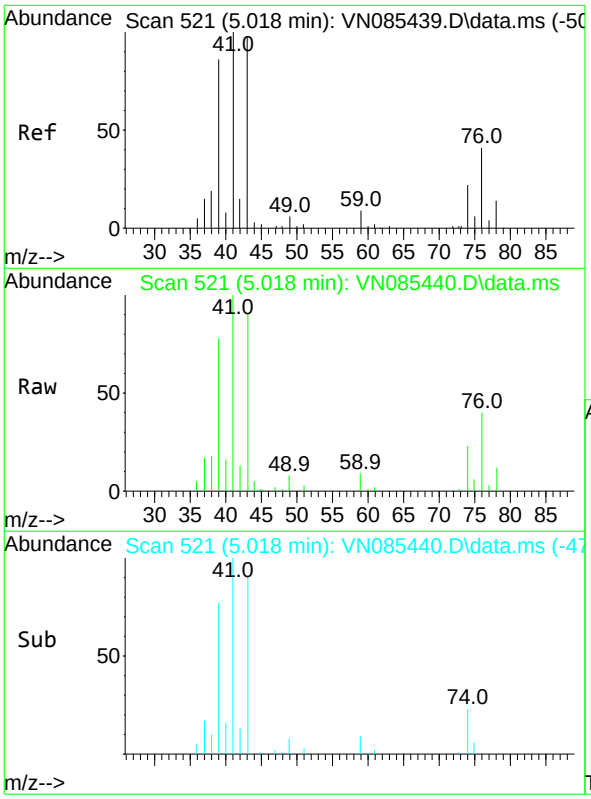
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.3 | 6.9 | 10.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

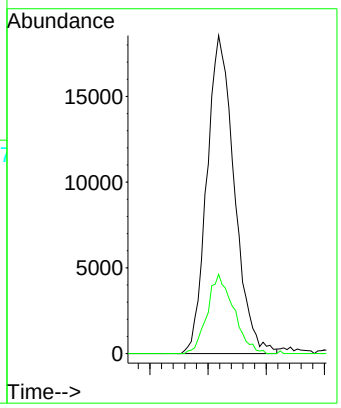


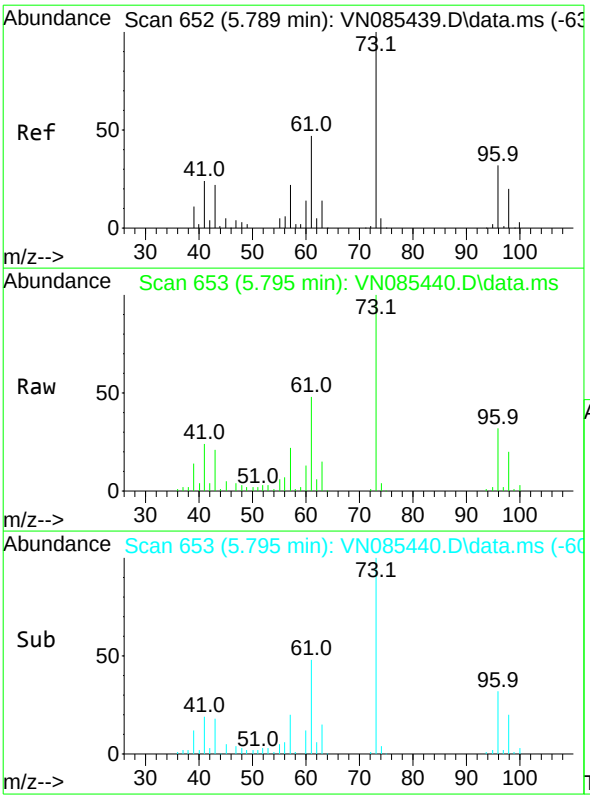




#18
Methyl Acetate
Concen: 19.115 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 60873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.0 | 18.6 | 28.0 |






#19
Methyl tert-butyl Ether
Concen: 21.272 ug/l
RT: 5.795 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

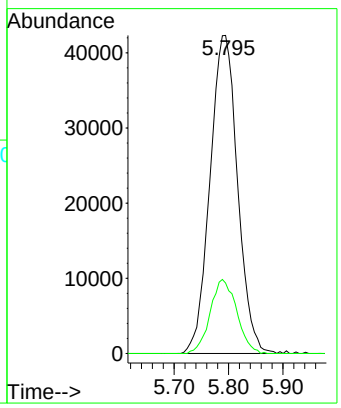
Tgt Ion: 73 Resp: 148847

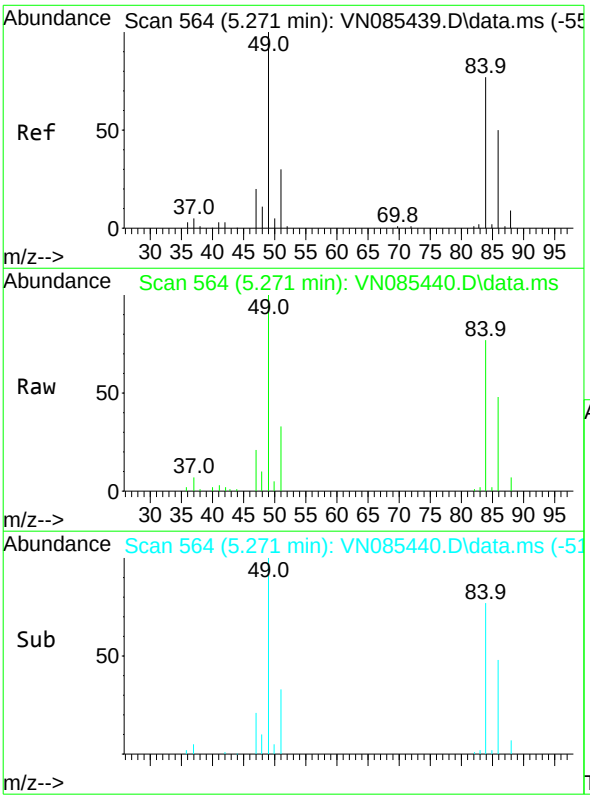
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.1 | 17.8 | 26.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

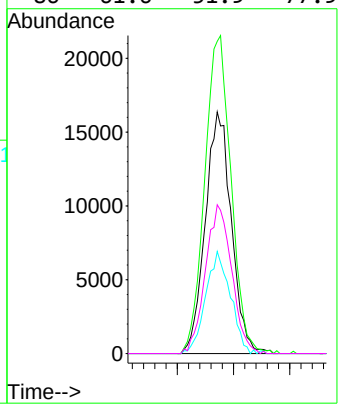


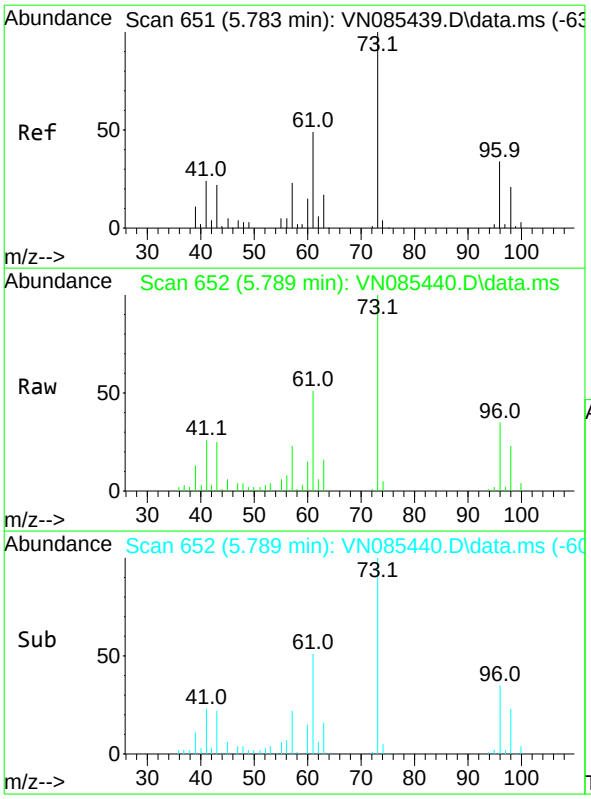




#20
Methylene Chloride
Concen: 20.370 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 84 Resp: 52813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 129.2 | 104.1 | 156.1 |
| 51 | 42.2 | 31.0 | 46.4 |
| 86 | 61.6 | 51.9 | 77.9 |






#21
trans-1,2-Dichloroethene
Concen: 20.023 ug/l
RT: 5.789 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

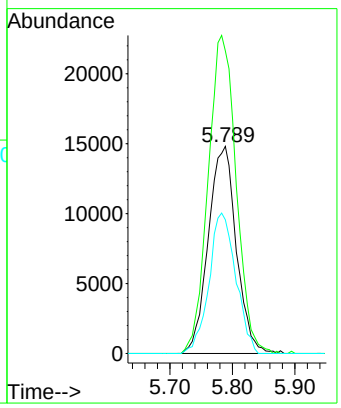
Tgt Ion: 96 Resp: 46115

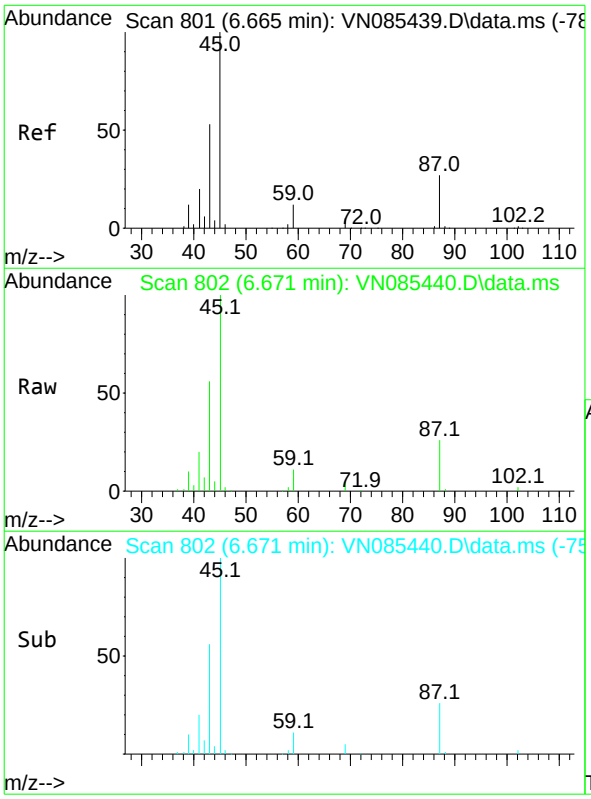
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 146.1 | 115.7 | 173.5 |
| 98 | 64.5 | 49.8 | 74.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

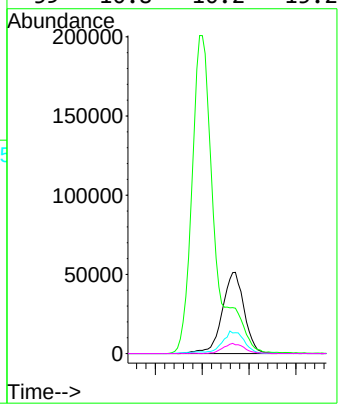


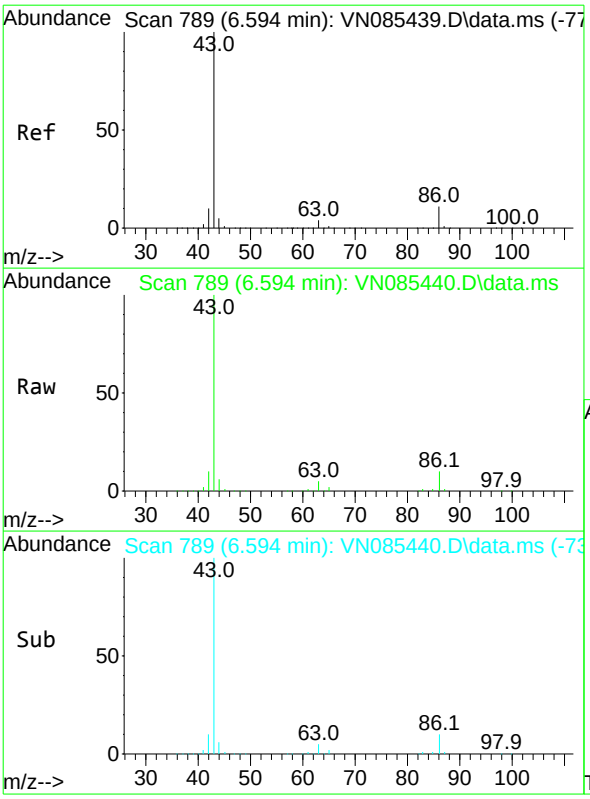




#22
Diisopropyl ether
Concen: 21.480 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 45 Resp: 166719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 54.3 | 45.0 | 67.6 |
| 87 | 25.3 | 21.8 | 32.8 |
| 59 | 10.8 | 10.2 | 15.2 |






#23
Vinyl Acetate
Concen: 107.984 ug/l m
RT: 6.594 min Scan# 78
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

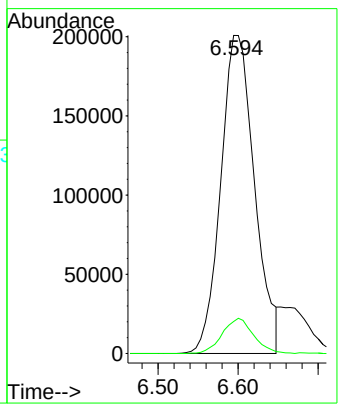
Tgt Ion: 43 Resp: 588567

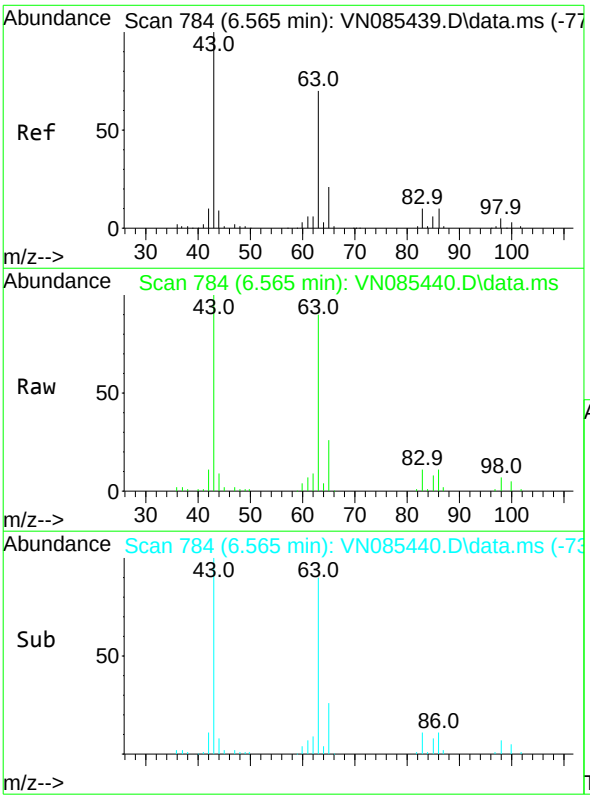
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.1 | 8.4 | 12.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

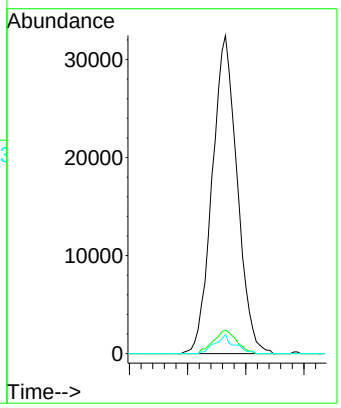


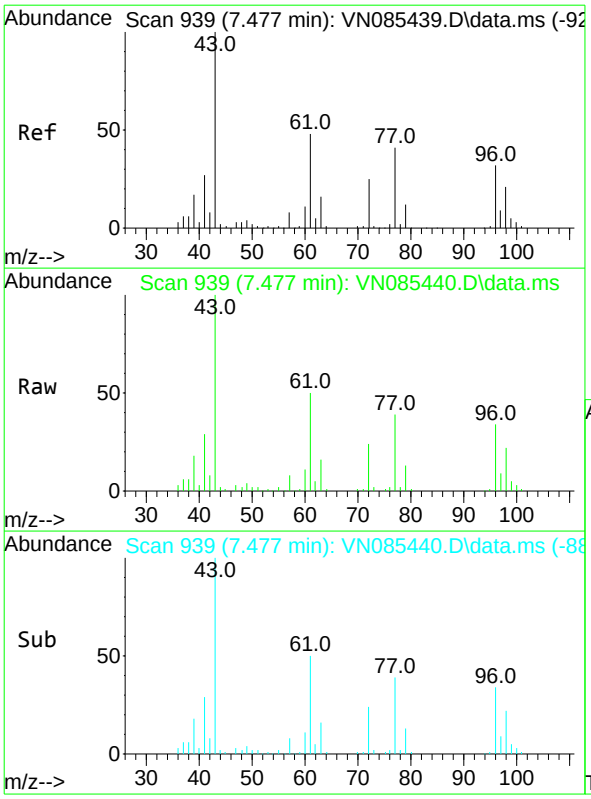




#24
1,1-Dichloroethane
Concen: 20.469 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 63 Resp: 96875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.3 | 9.8 |
| 100 | 6.0 | 2.0 | 6.0# |






#25
2-Butanone
Concen: 103.786 ug/l
RT: 7.477 min Scan# 93
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

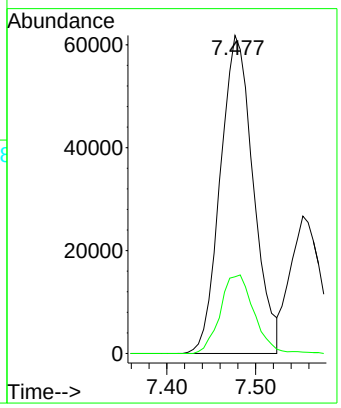
Tgt Ion: 43 Resp: 159952

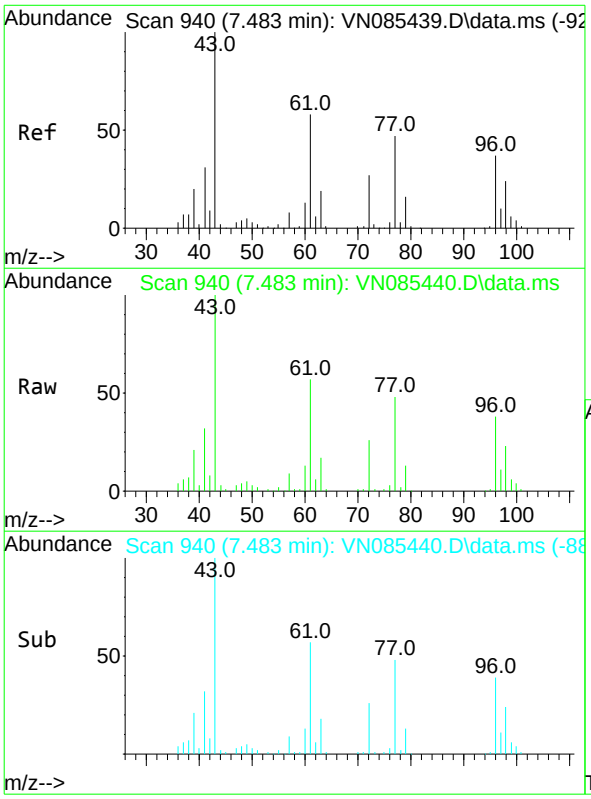
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.1 | 20.2 | 30.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

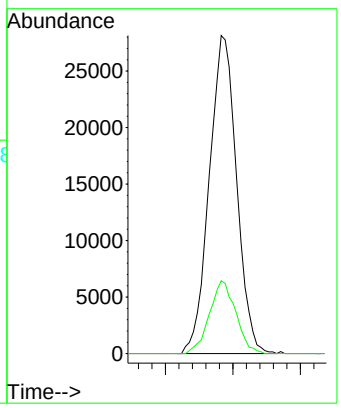


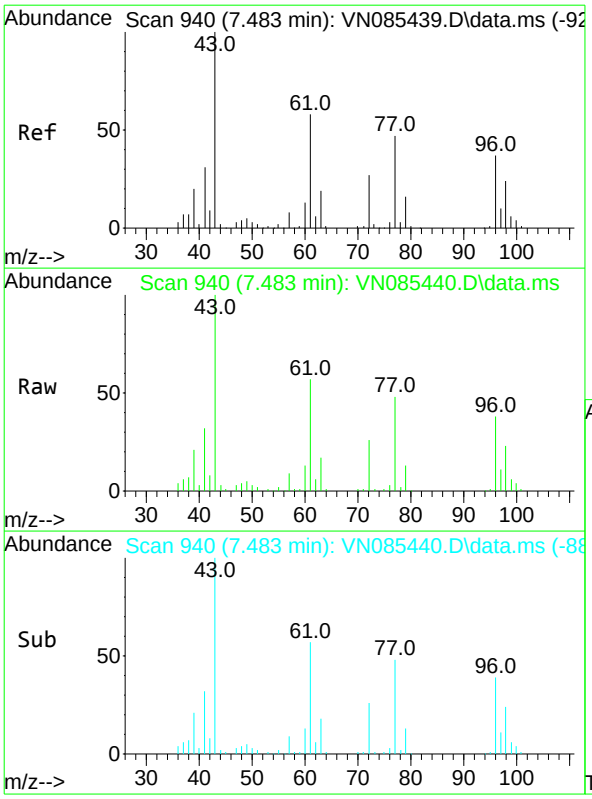




#26
2,2-Dichloropropane
Concen: 20.684 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 77 Resp: 79145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.0 | 10.7 | 32.1 |






#27
cis-1,2-Dichloroethene
Concen: 21.180 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

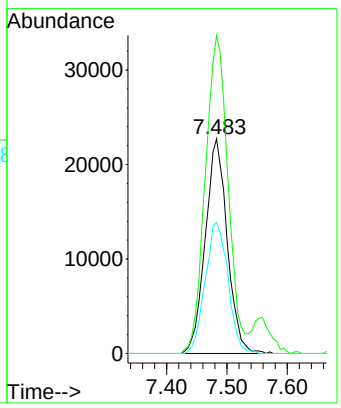
Tgt Ion: 96 Resp: 57454

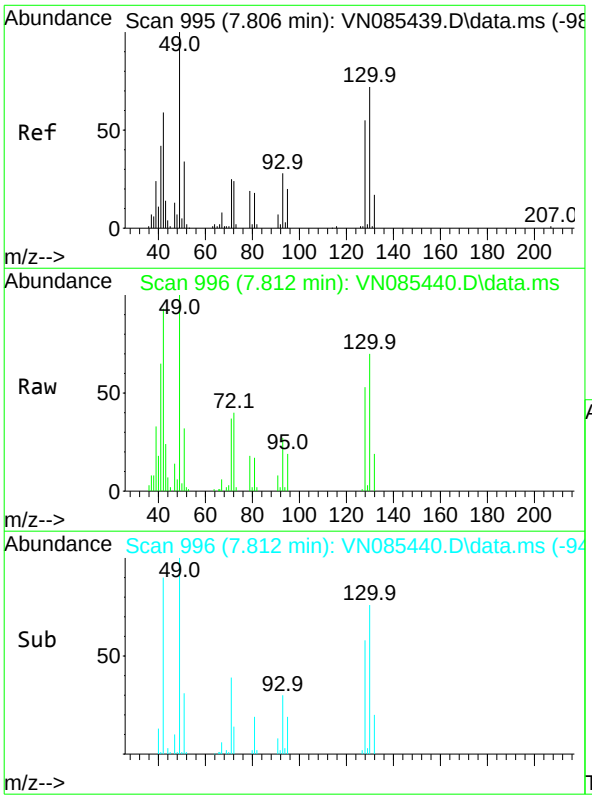
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 153.0 | 0.0 | 311.8 |
| 98 | 63.7 | 0.0 | 126.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

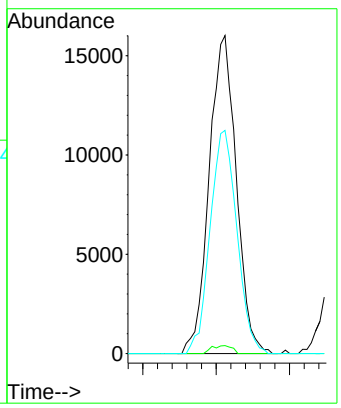


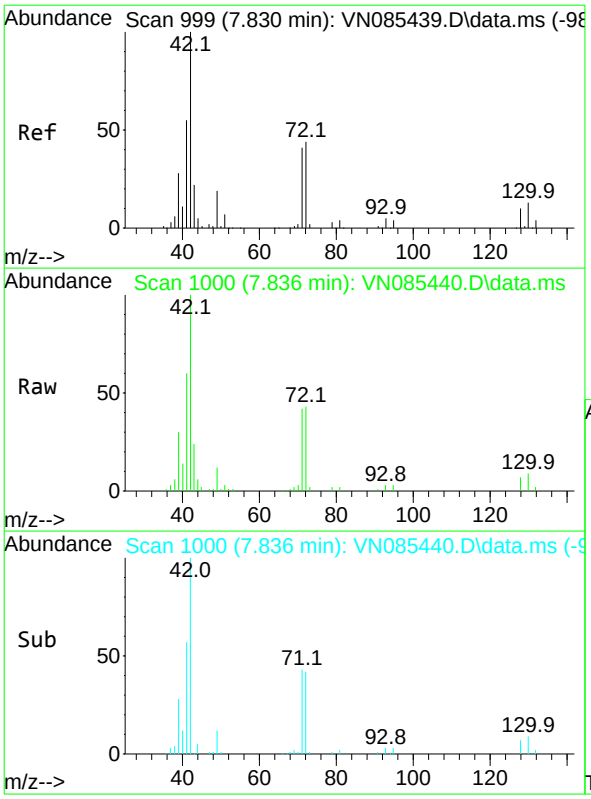




#28
Bromochloromethane
Concen: 18.703 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 49 Resp: 41181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 4.4 |
| 130 | 69.3 | 55.0 | 82.4 |






#29
Tetrahydrofuran
Concen: 107.247 ug/l
RT: 7.836 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

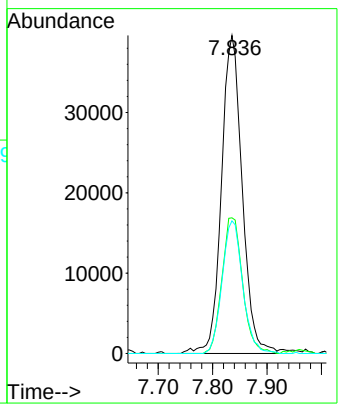
Tgt Ion: 42 Resp: 104792

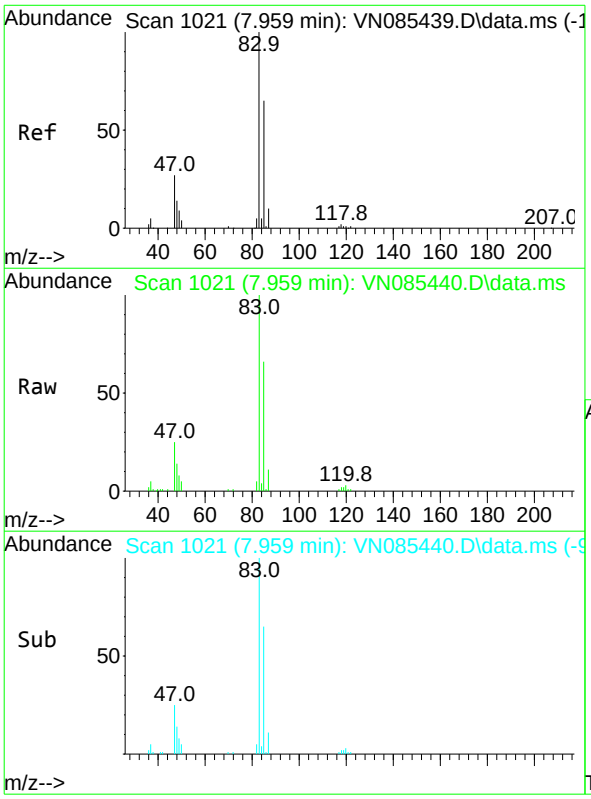
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.6 | 34.2 | 51.2 |
| 71 | 41.4 | 32.5 | 48.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

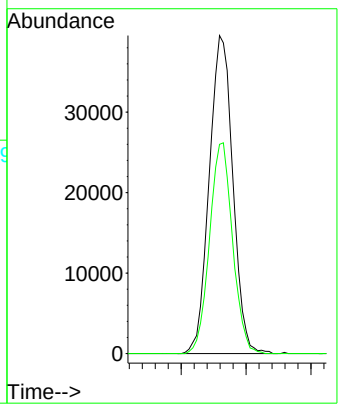


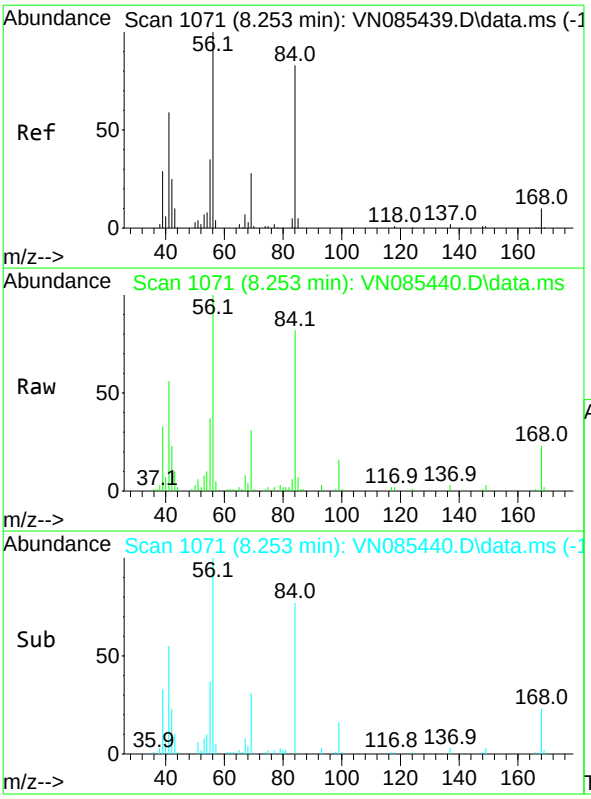




#30
Chloroform
Concen: 20.374 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 83 Resp: 99655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.8 | 51.8 | 77.6 |






#31
Cyclohexane
Concen: 20.173 ug/l
RT: 8.253 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

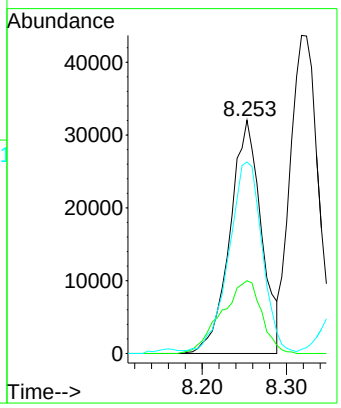
Tgt Ion: 56 Resp: 82980

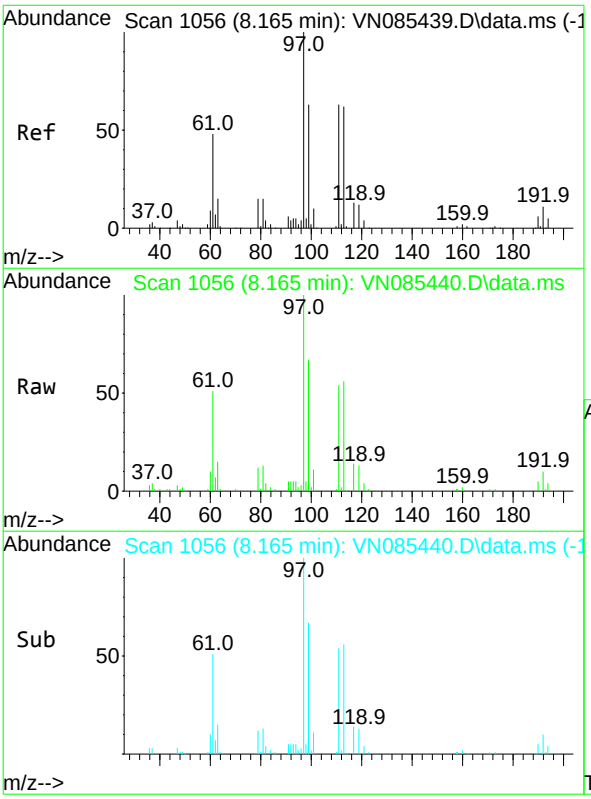
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.2 | 22.2 | 33.4 |
| 84 | 80.8 | 66.4 | 99.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

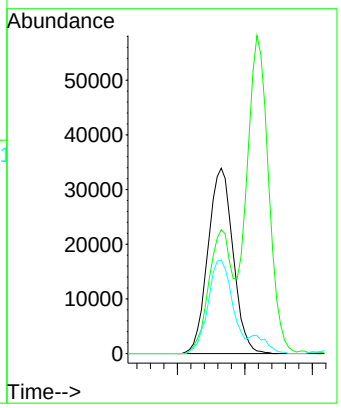


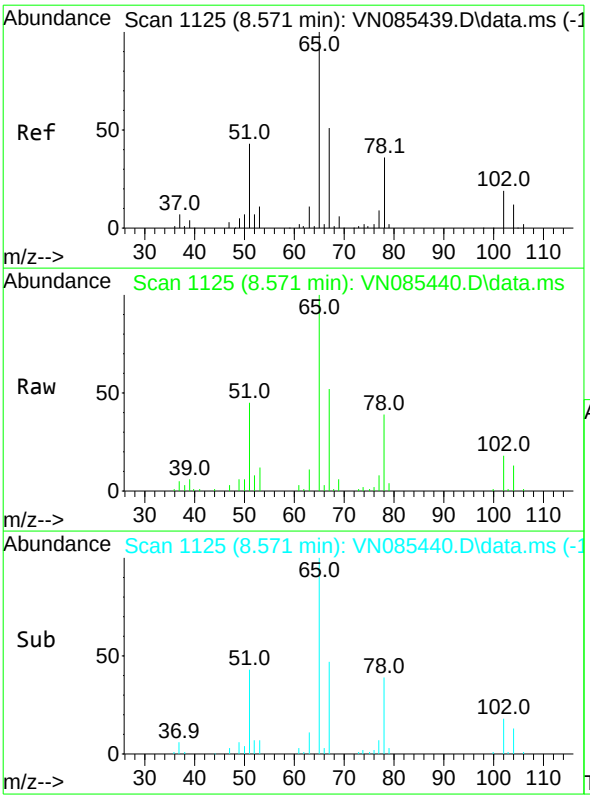




#32
1,1,1-Trichloroethane
Concen: 20.431 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 97 Resp: 87659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.2 | 49.8 | 74.6 |
| 61 | 50.3 | 41.4 | 62.2 |






#33
1,2-Dichloroethane-d4
Concen: 18.694 ug/l
RT: 8.571 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

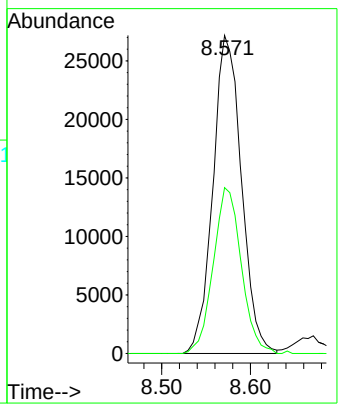
Tgt Ion: 65 Resp: 60593

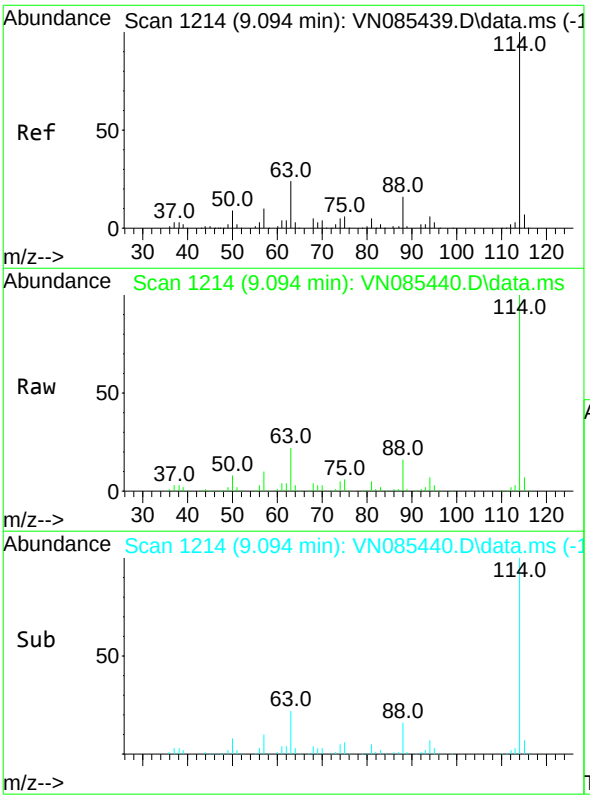
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.2 | 0.0 | 101.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

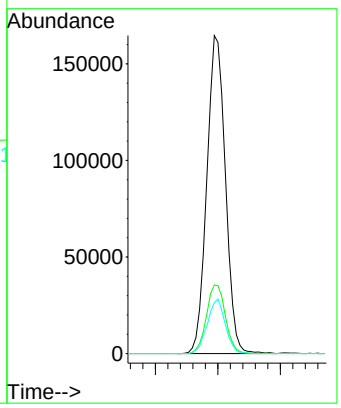


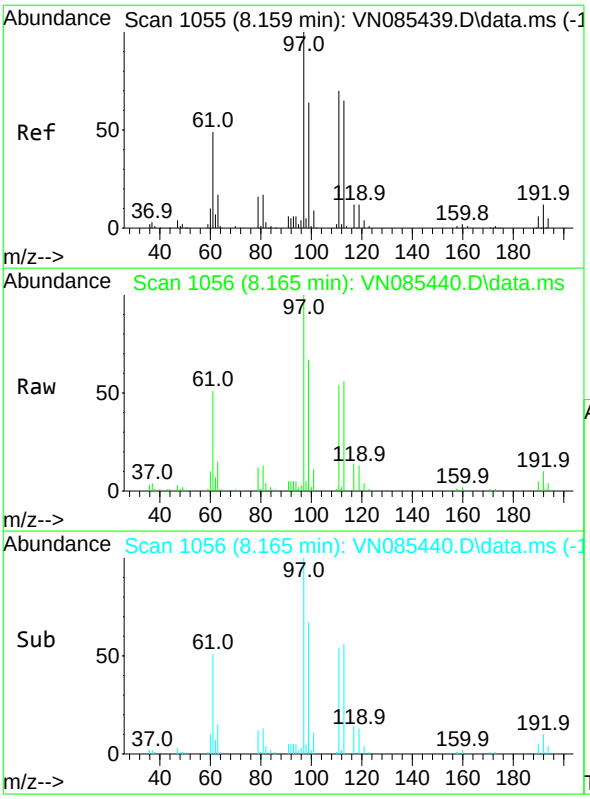




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:114 Resp: 340593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.6 | 0.0 | 47.6 |
| 88 | 16.0 | 0.0 | 32.6 |






#35
Dibromofluoromethane
Concen: 19.322 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:113 Resp: 45655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.6 | 82.7 | 124.1 |
| 192 | 17.9 | 14.3 | 21.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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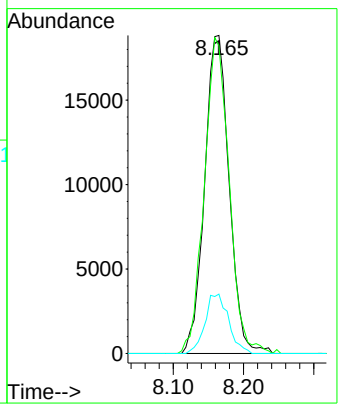
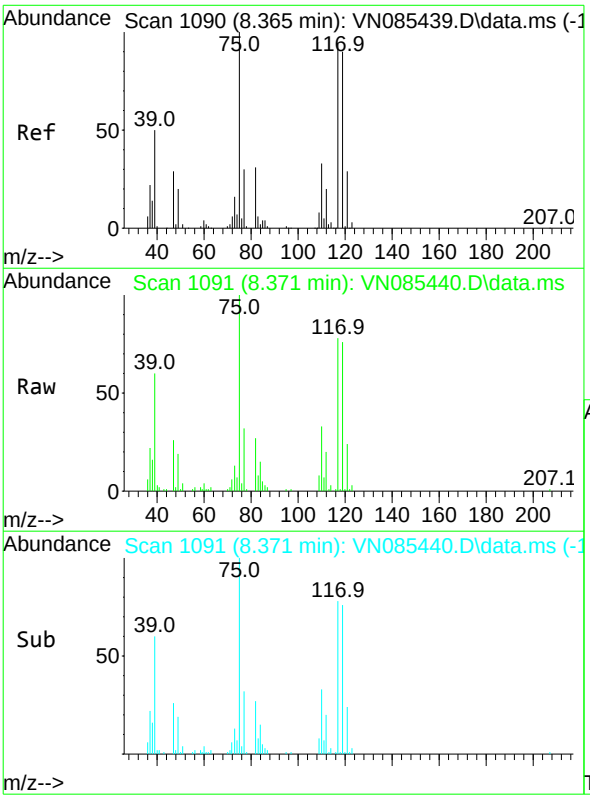
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

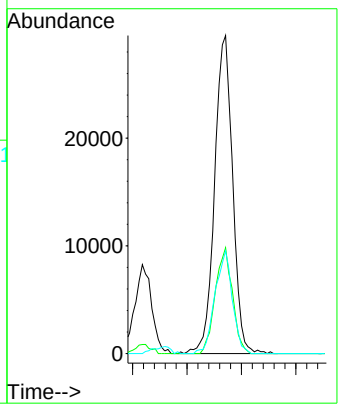


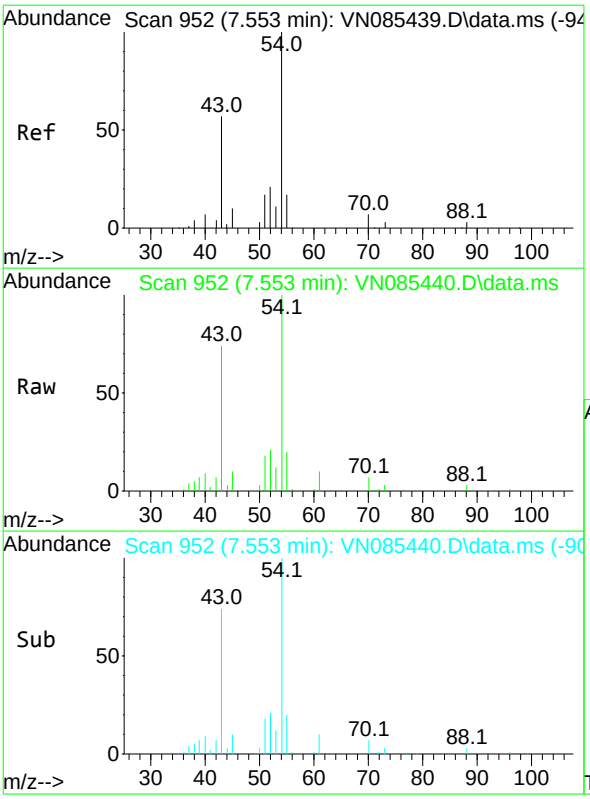




#36
1,1-Dichloropropene
Concen: 20.490 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 67949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 31.8 | 16.5 | 49.5 |
| 77 | 31.1 | 24.4 | 36.6 |






#37
Ethyl Acetate
Concen: 19.850 ug/l
RT: 7.553 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

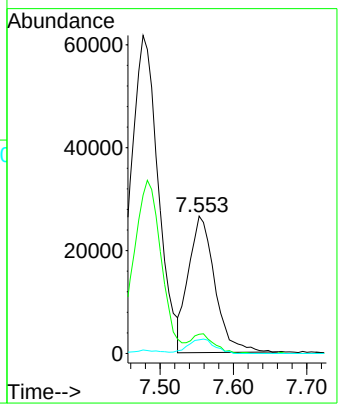
Tgt Ion: 43 Resp: 66443

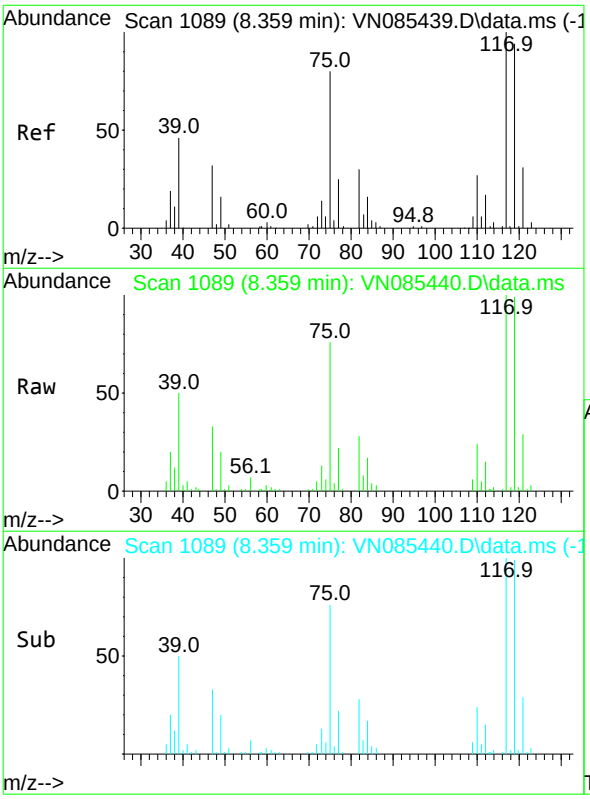
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 11.9 | 10.9 | 16.3 |
| 70 | 10.6 | 7.5 | 11.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

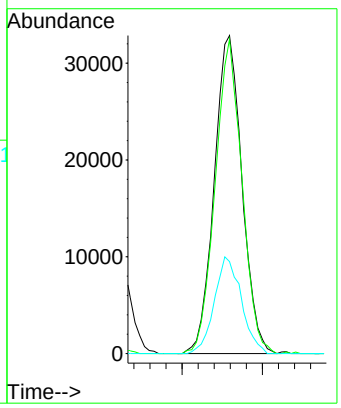


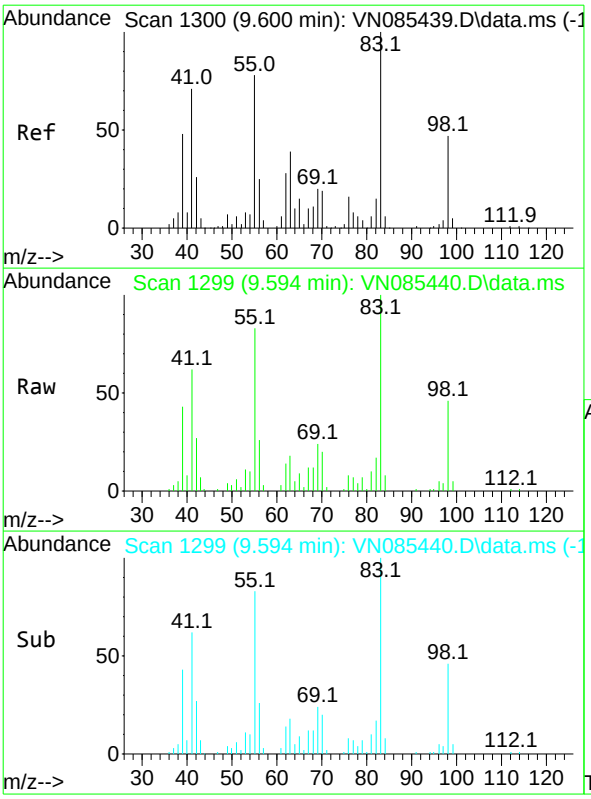




#38
Carbon Tetrachloride
Concen: 20.767 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:117 Resp: 78842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.9 | 75.4 | 113.2 |
| 121 | 28.9 | 24.6 | 37.0 |






#39
Methylcyclohexane
Concen: 20.862 ug/l
RT: 9.594 min Scan# 12
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

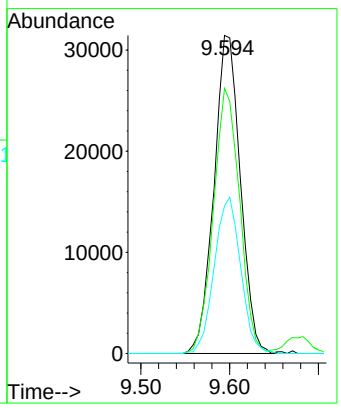
Tgt Ion: 83 Resp: 65012

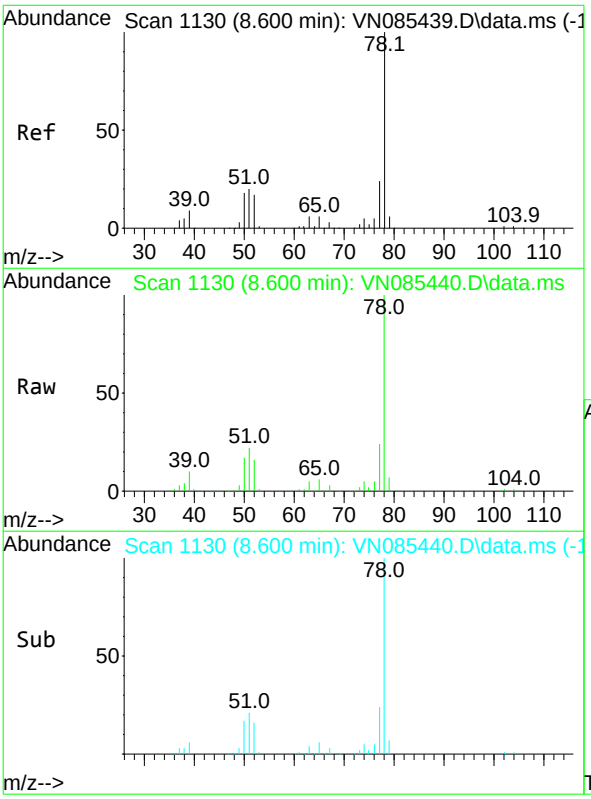
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 83.4 | 62.6 | 94.0 |
| 98 | 46.4 | 37.7 | 56.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

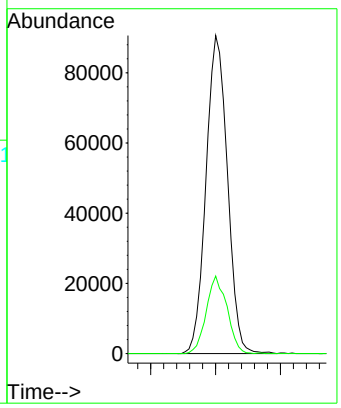


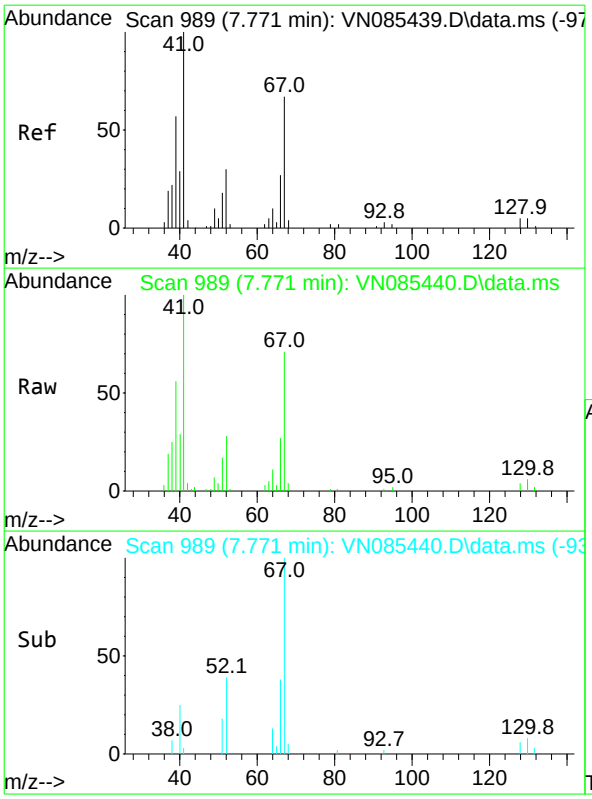




#40
Benzene
Concen: 20.873 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 78 Resp: 207985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.4 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 21.004 ug/l
RT: 7.771 min Scan# 98
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

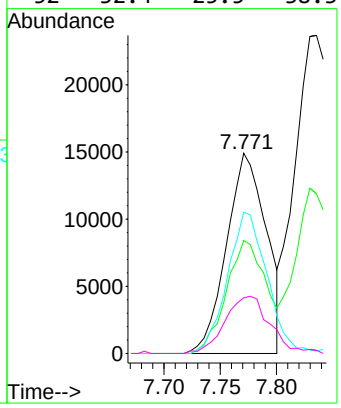
Tgt Ion: 41 Resp: 36578

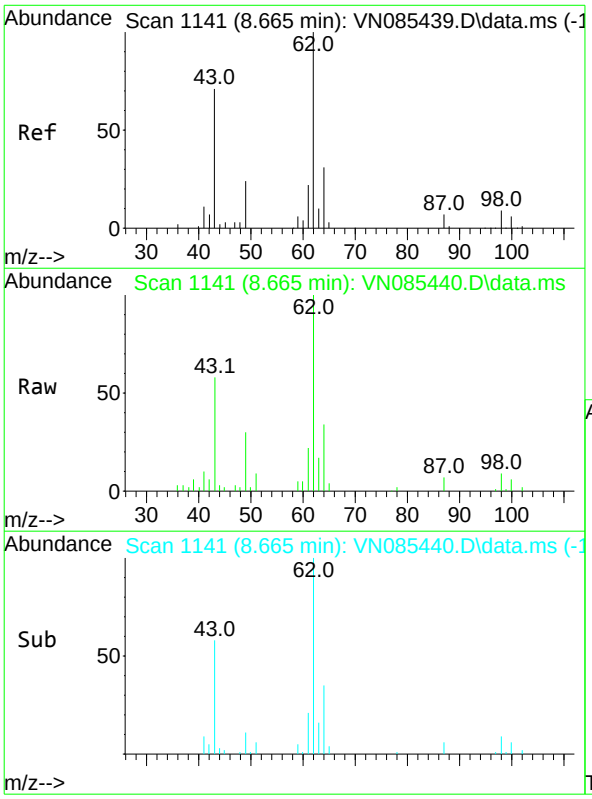
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 56.6 | 46.0 | 69.0 |
| 67 | 70.3 | 57.4 | 86.2 |
| 52 | 32.4 | 25.5 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

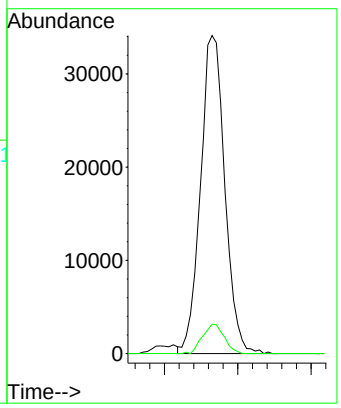


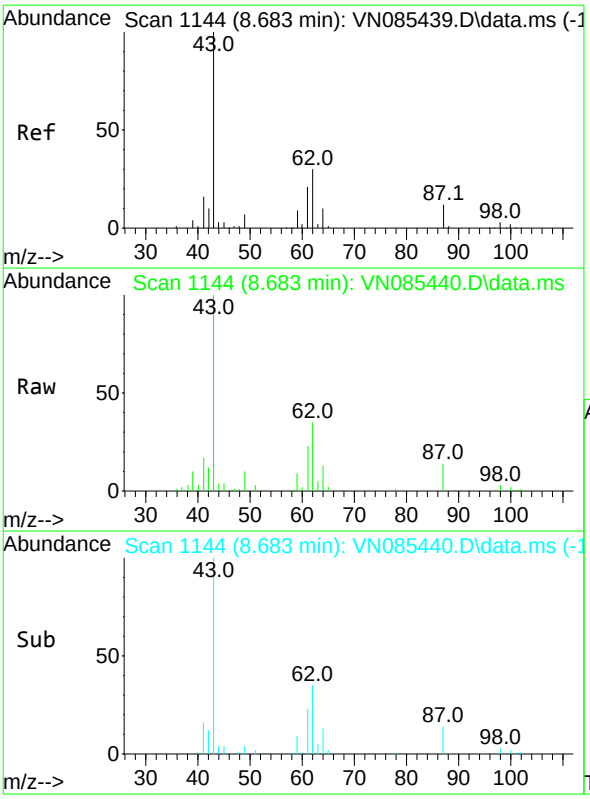




#42
1,2-Dichloroethane
Concen: 20.891 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 62 Resp: 78402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.3 | 0.0 | 17.0 |






#43
Isopropyl Acetate
Concen: 20.347 ug/l
RT: 8.683 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

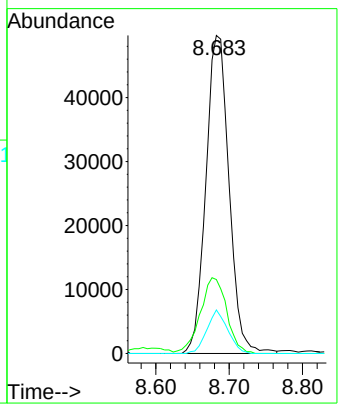
Tgt Ion: 43 Resp: 109131

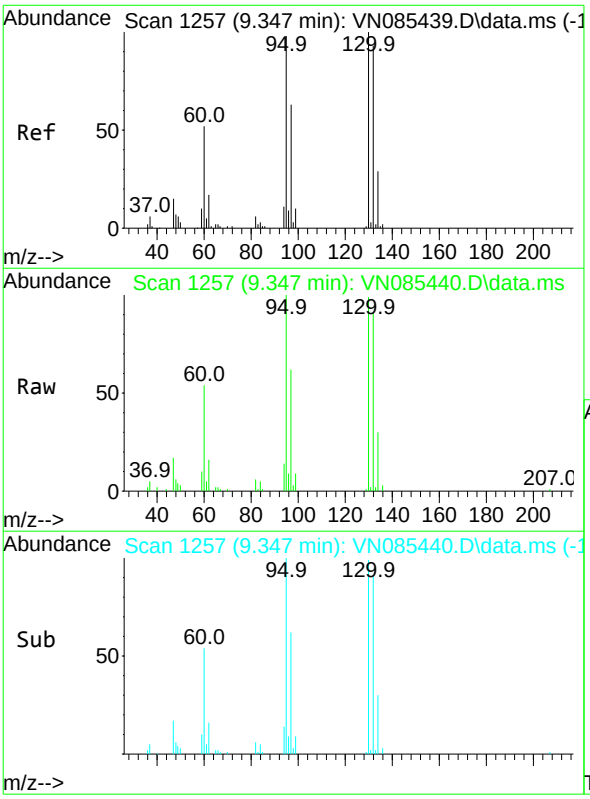
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 27.2 | 20.7 | 31.1 |
| 87 | 12.3 | 9.8 | 14.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

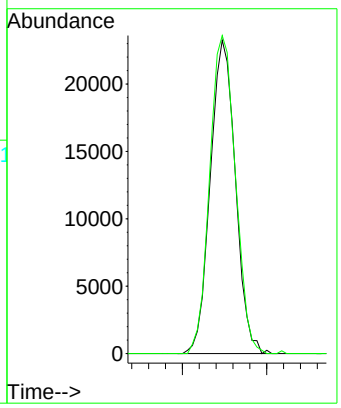


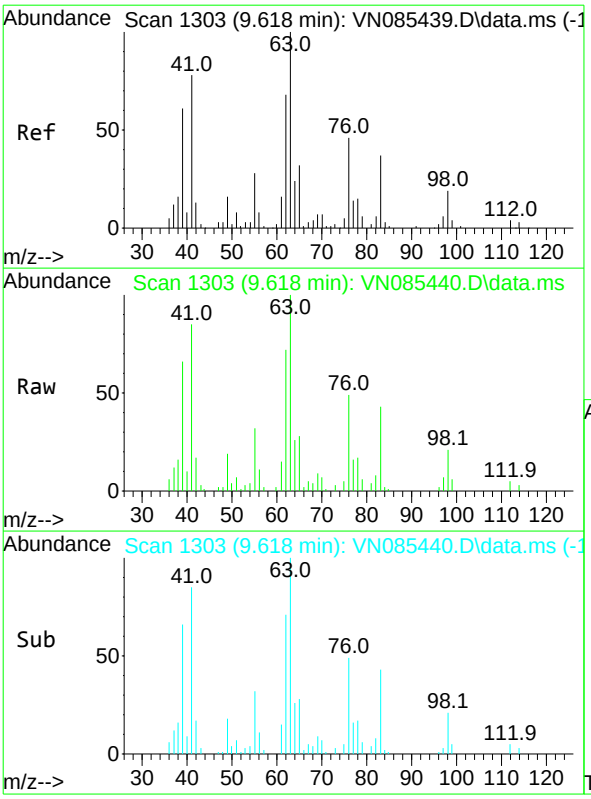




#44
Trichloroethene
Concen: 20.699 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:130 Resp: 48009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.5 | 0.0 | 195.8 |






#45
1,2-Dichloropropane
Concen: 20.758 ug/l
RT: 9.618 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

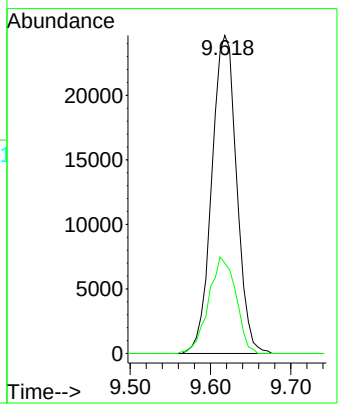
Tgt Ion: 63 Resp: 52833

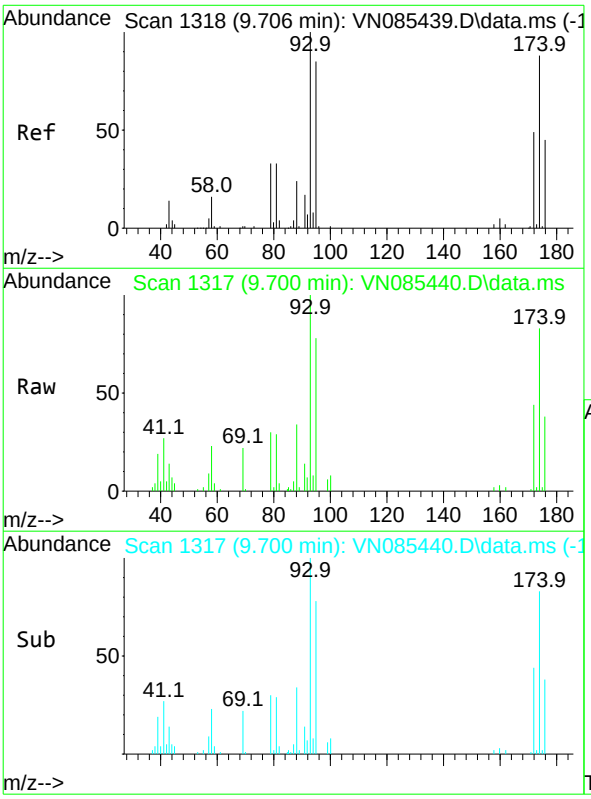
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 28.3 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

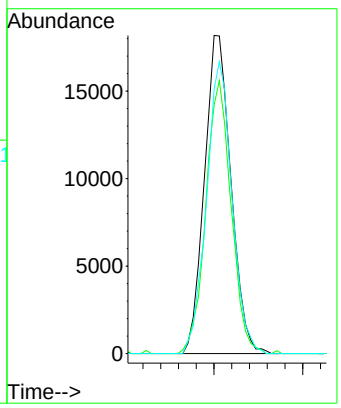


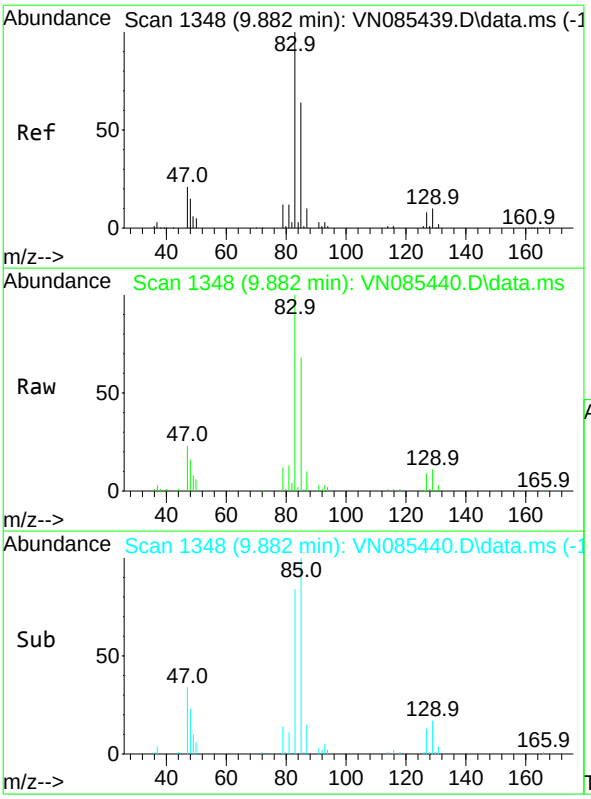




#46
Dibromomethane
Concen: 20.540 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 93 Resp: 37721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.0 | 64.7 | 97.1 |
| 174 | 88.4 | 69.0 | 103.4 |






#47
Bromodichloromethane
Concen: 21.093 ug/l
RT: 9.882 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

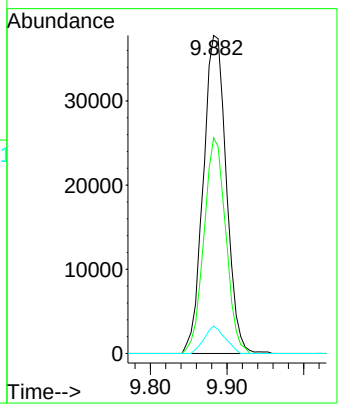
Tgt Ion: 83 Resp: 78918

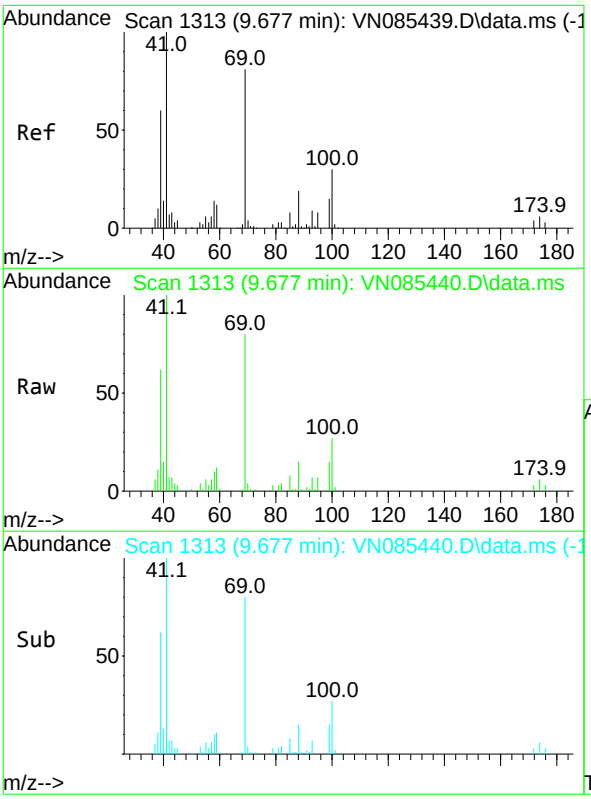
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.8 | 51.2 | 76.8 |
| 127 | 8.6 | 6.5 | 9.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

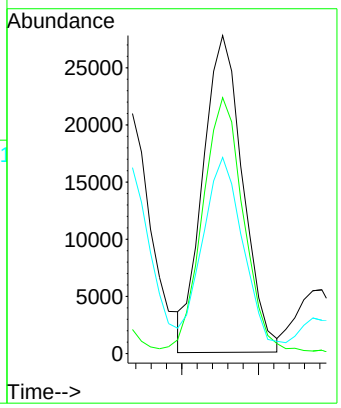


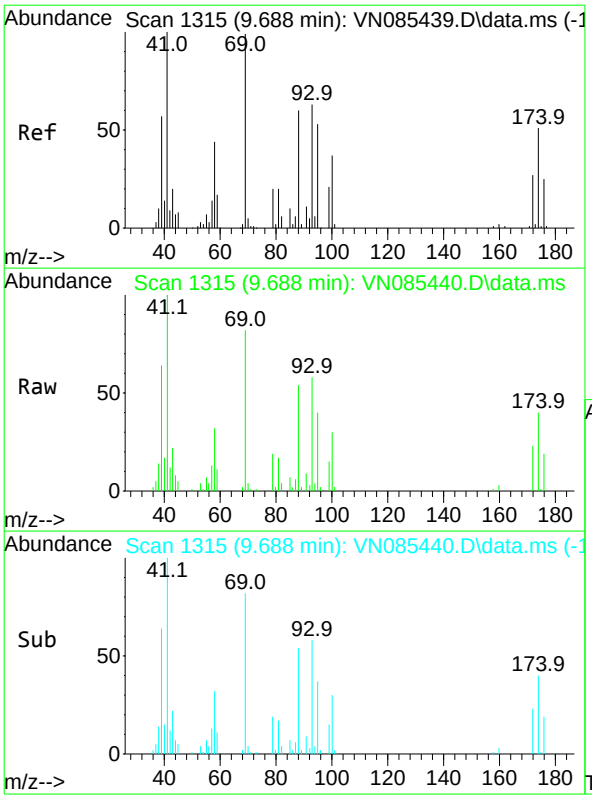




#48
Methyl methacrylate
Concen: 20.808 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 41 Resp: 50224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.3 | 64.7 | 97.1 |
| 39 | 64.2 | 49.0 | 73.6 |






#49
1,4-Dioxane
Concen: 421.686 ug/l
RT: 9.688 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 88 Resp: 17140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.9 | 26.6 | 39.8 |
| 58 | 69.0 | 59.5 | 89.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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Reviewed By :John Carlone 01/15/2025
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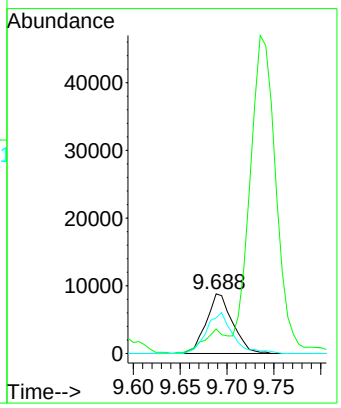
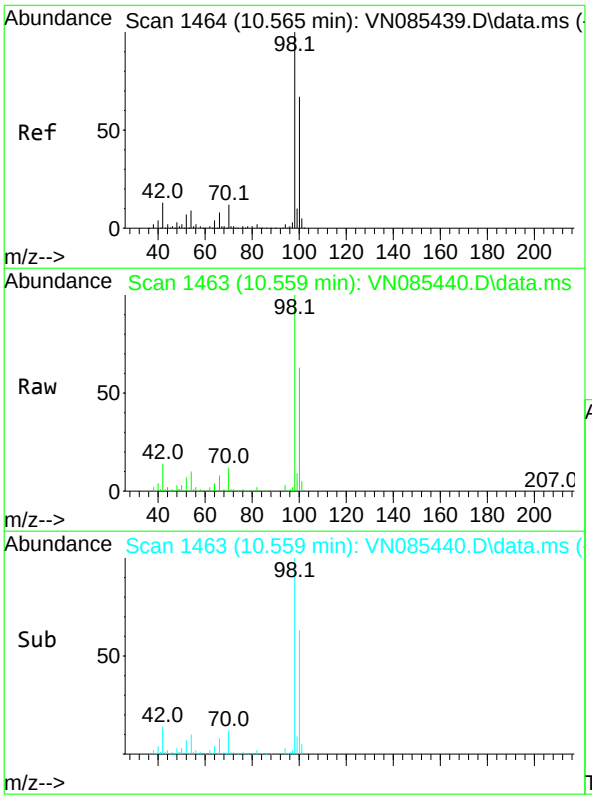
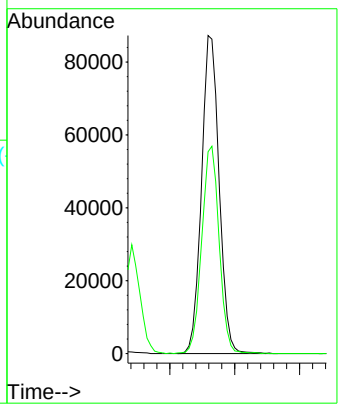


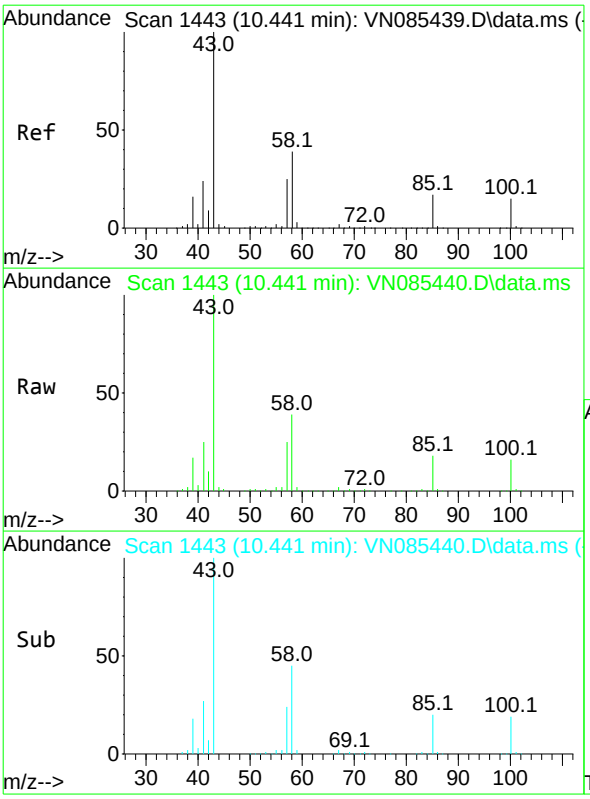




#50
Toluene-d8
Concen: 19.581 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 98 Resp: 164391

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






#51
4-Methyl-2-Pentanone
Concen: 108.249 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 336911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.1 | 30.5 | 45.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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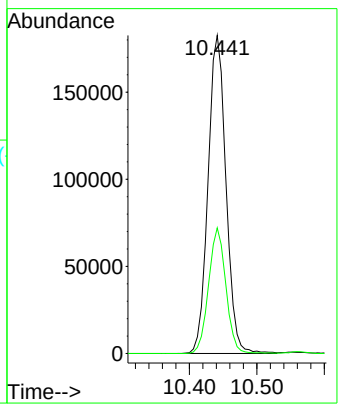
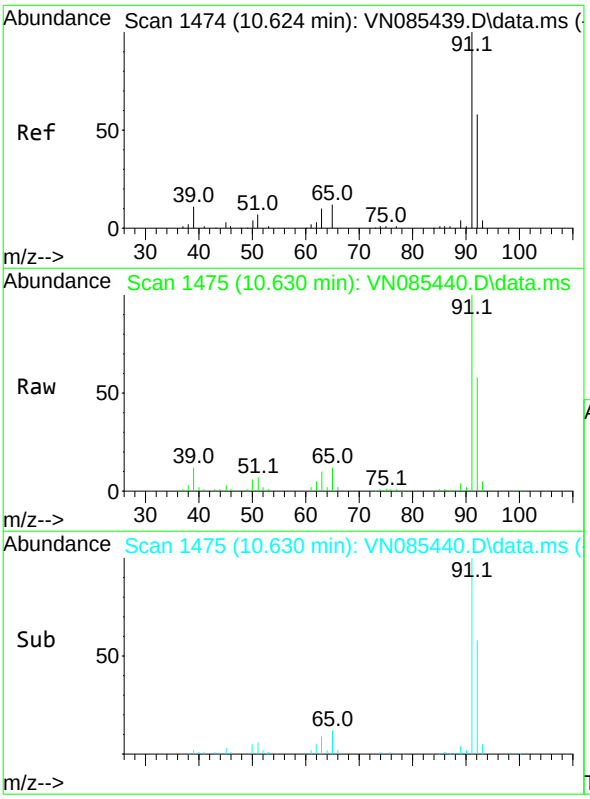
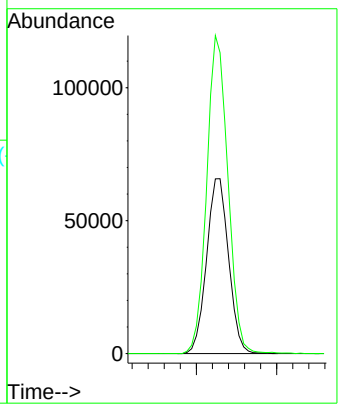


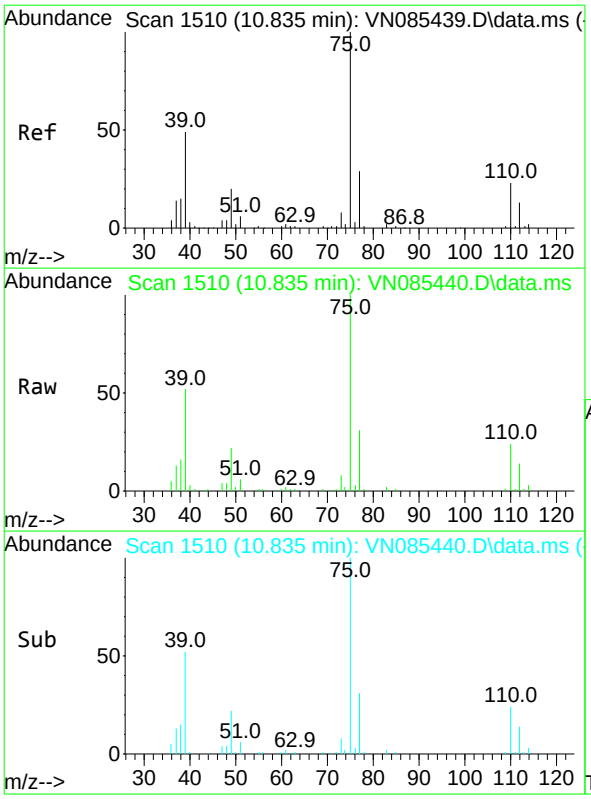




#52
Toluene
Concen: 21.680 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 92 Resp: 125172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 175.1 | 139.2 | 208.8 |






#53
t-1,3-Dichloropropene
Concen: 20.965 ug/l
RT: 10.835 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 74129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 23.5 | 35.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

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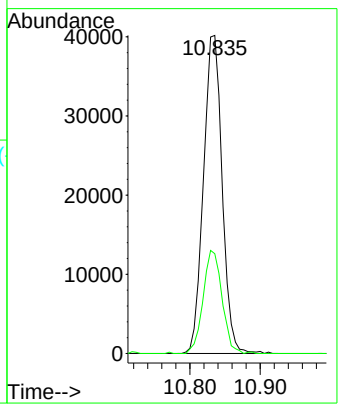
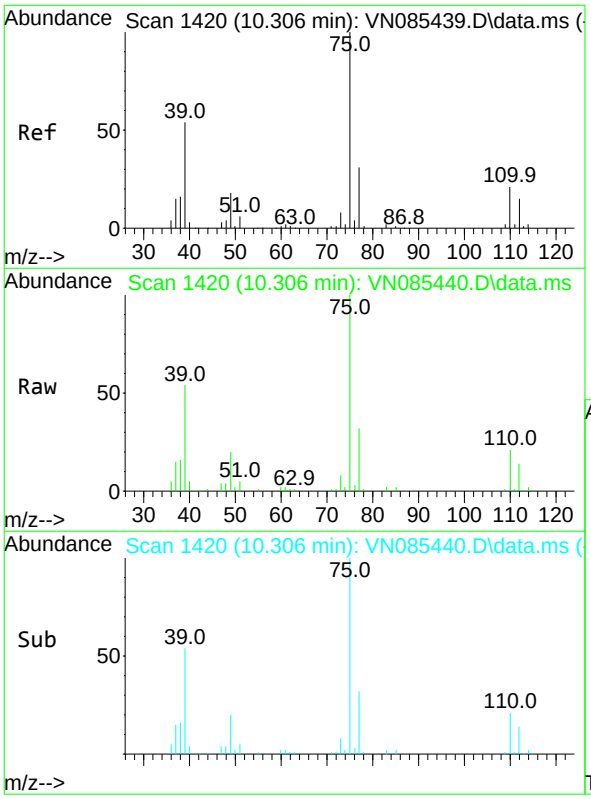
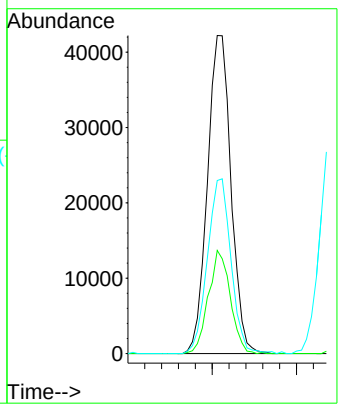


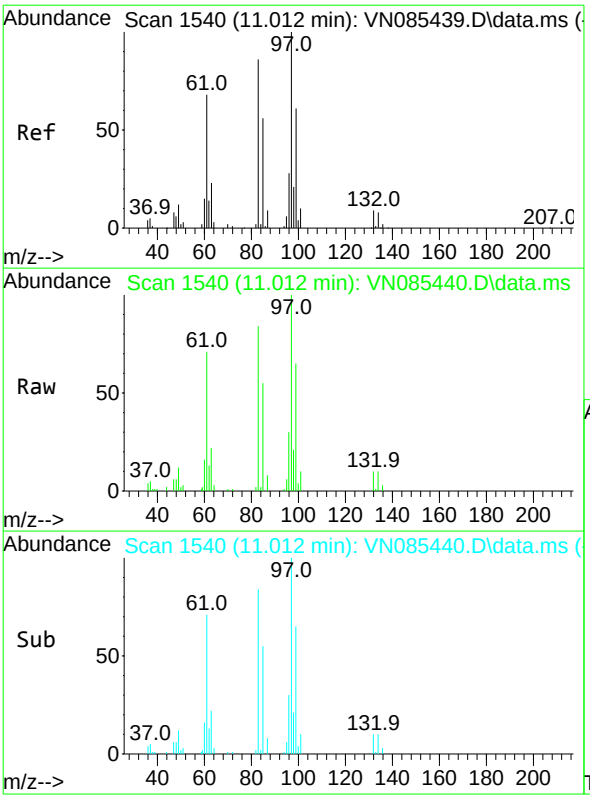




#54
cis-1,3-Dichloropropene
Concen: 21.684 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 81897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.4 | 25.0 | 37.4 |
| 39 | 54.4 | 43.1 | 64.7 |

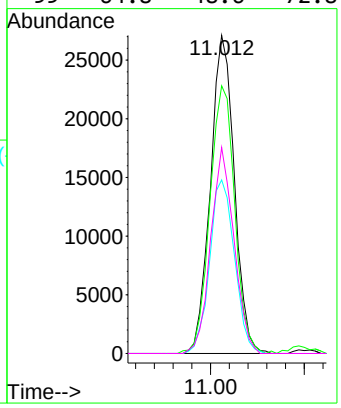





#55
1,1,2-Trichloroethane
Concen: 21.025 ug/l
RT: 11.012 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 97 Resp: 48039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.1 | 69.0 | 103.6 |
| 85 | 54.6 | 44.6 | 66.8 |
| 99 | 64.8 | 48.6 | 72.8 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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Reviewed By :John Carlone 01/15/2025
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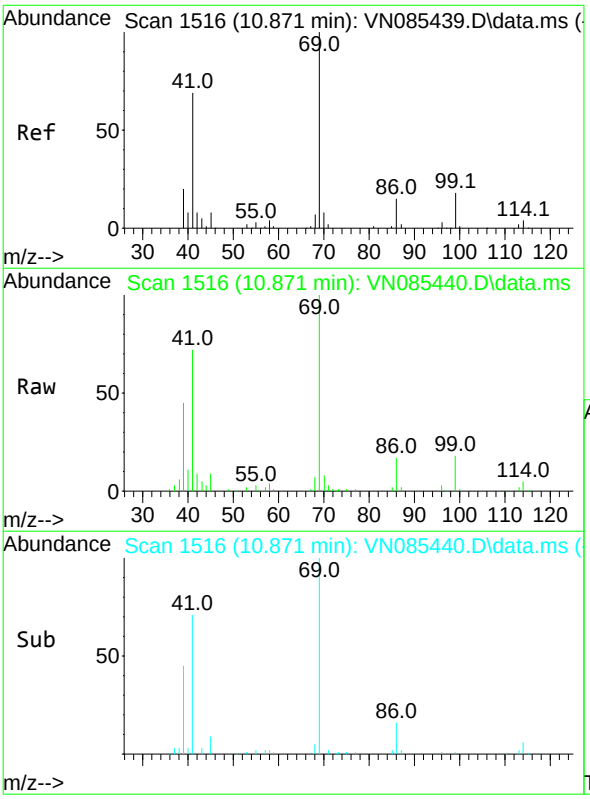
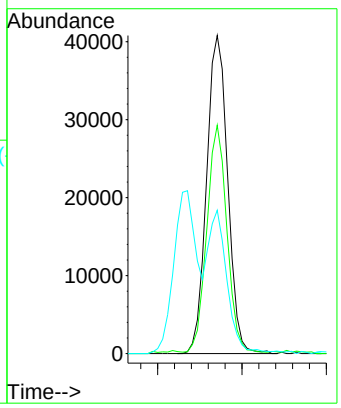
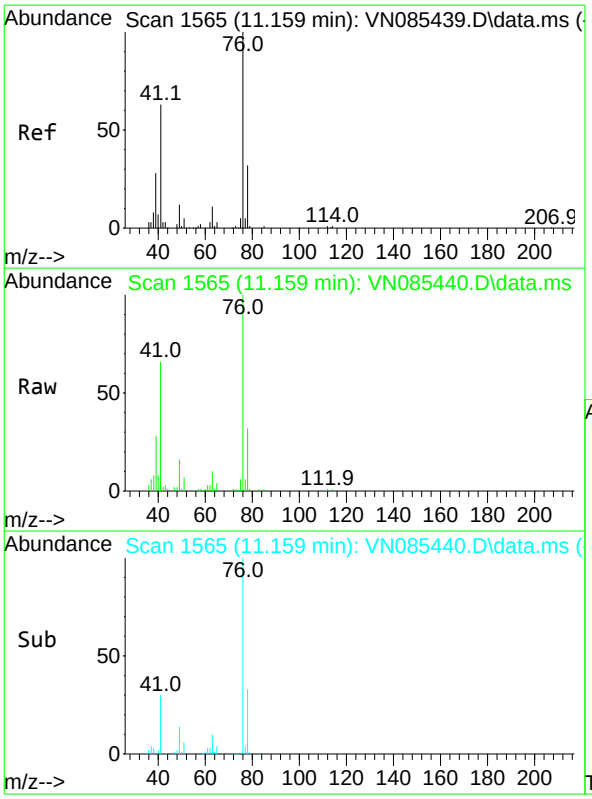



#56
Ethyl methacrylate
Concen: 19.649 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 69 Resp: 70934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 67.6 | 54.6 | 82.0 |
| 39 | 41.7 | 32.4 | 48.6 |






#57
1,3-Dichloropropane
Concen: 21.196 ug/l
RT: 11.159 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 76 Resp: 84210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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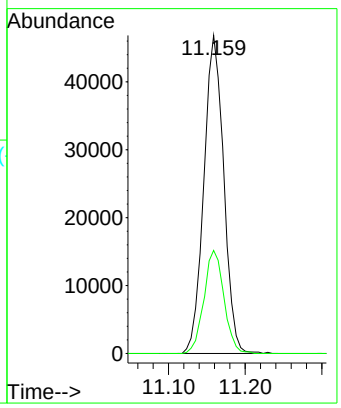
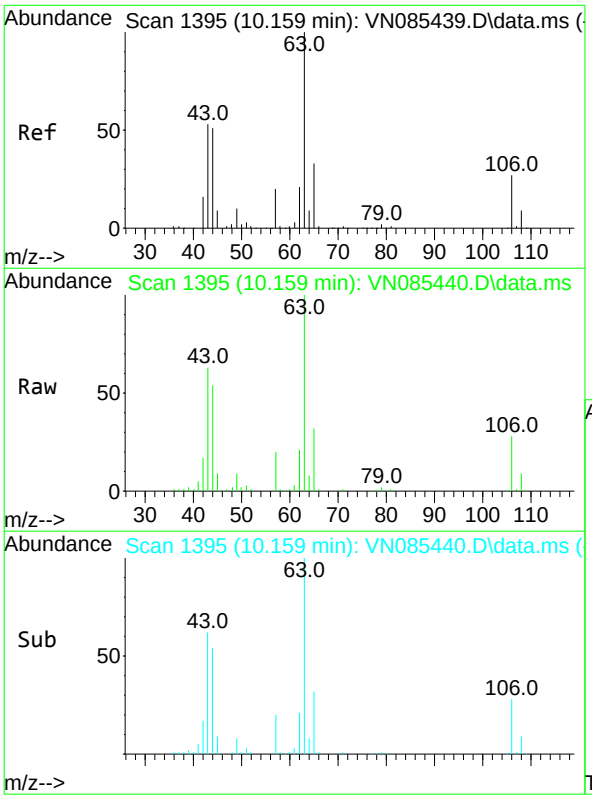
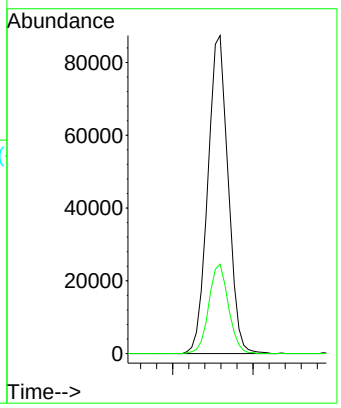


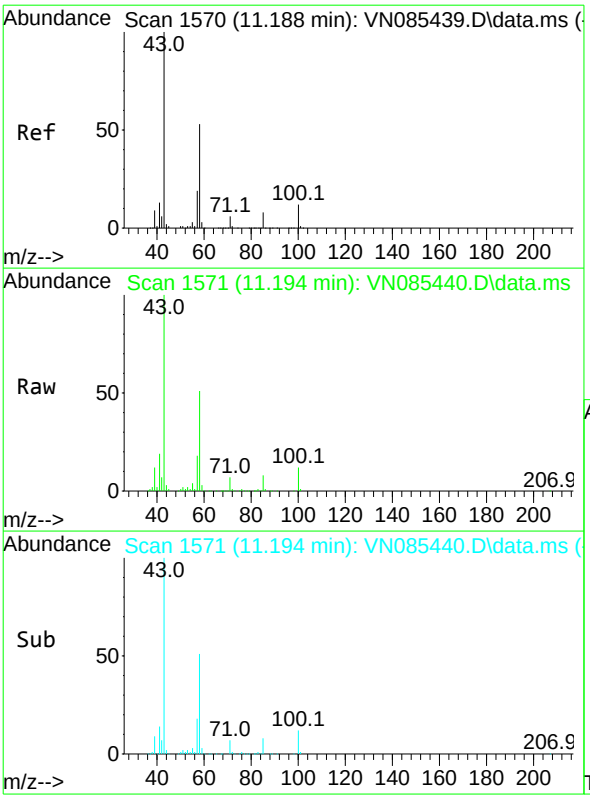




#58
2-Chloroethyl Vinyl ether
Concen: 105.991 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 63 Resp: 153681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.2 | 21.6 | 32.4 |






#59
2-Hexanone
Concen: 109.863 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 240595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 51.1 | 26.2 | 78.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

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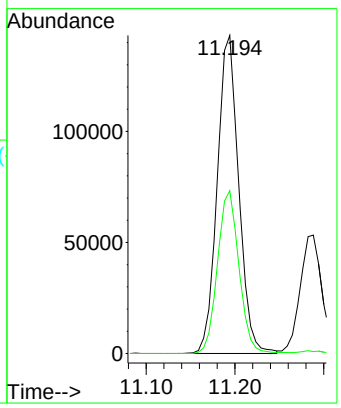
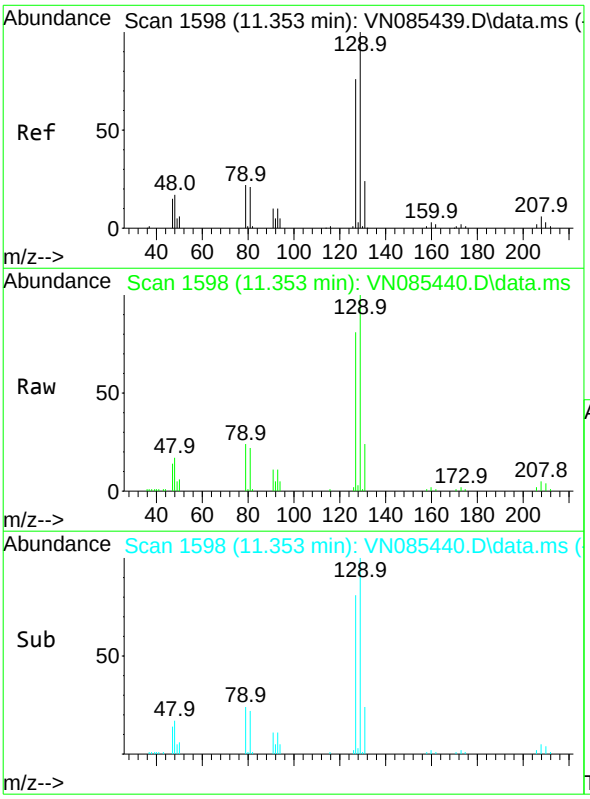
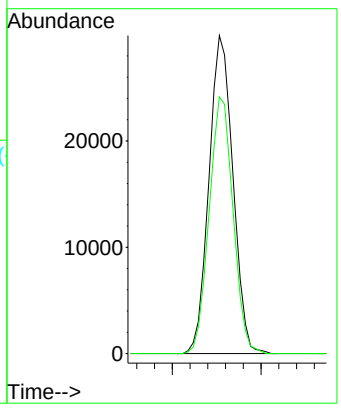


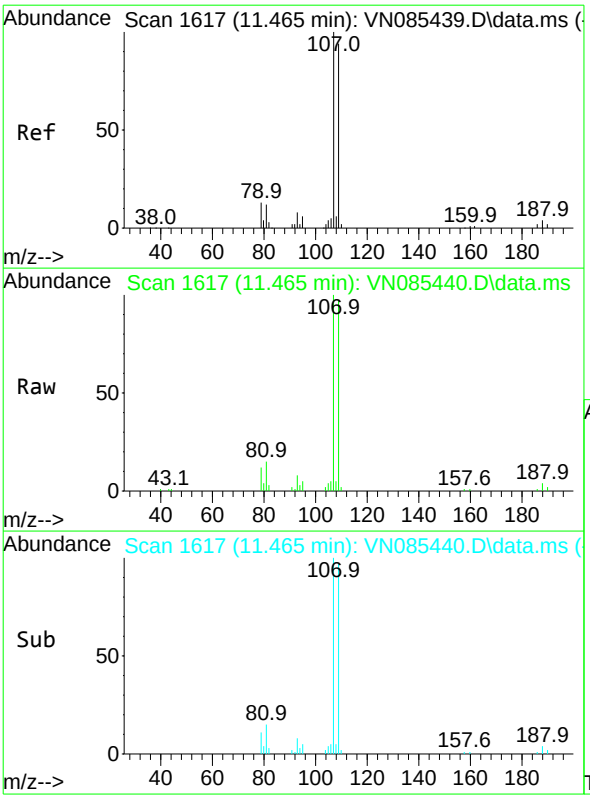




#60
Dibromochloromethane
Concen: 20.326 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:129 Resp: 56069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 80.4 | 38.6 | 115.8 |






#61
1,2-Dibromoethane
Concen: 21.309 ug/l
RT: 11.465 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:107 Resp: 48465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 90.6 | 75.9 | 113.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

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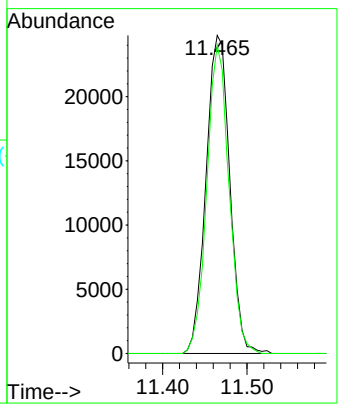
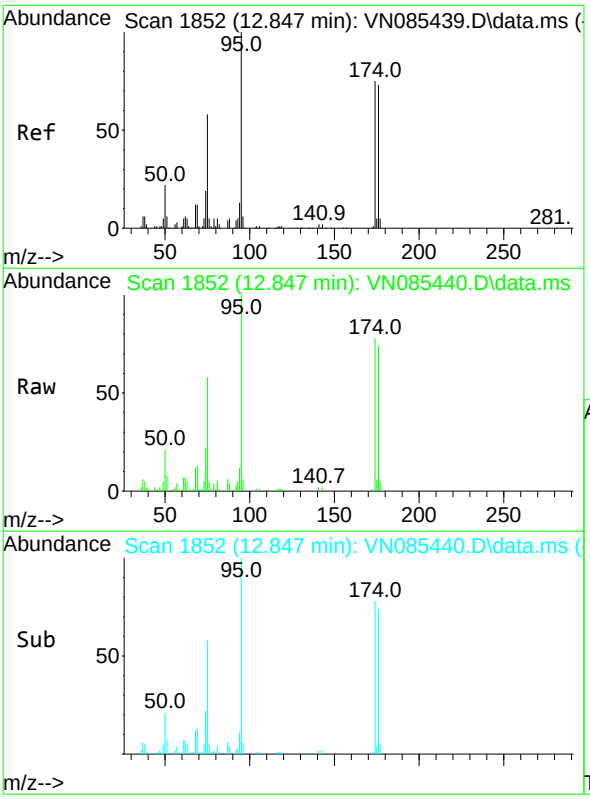
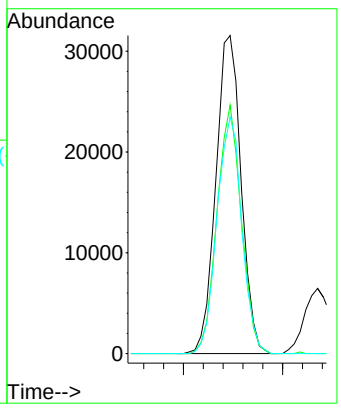


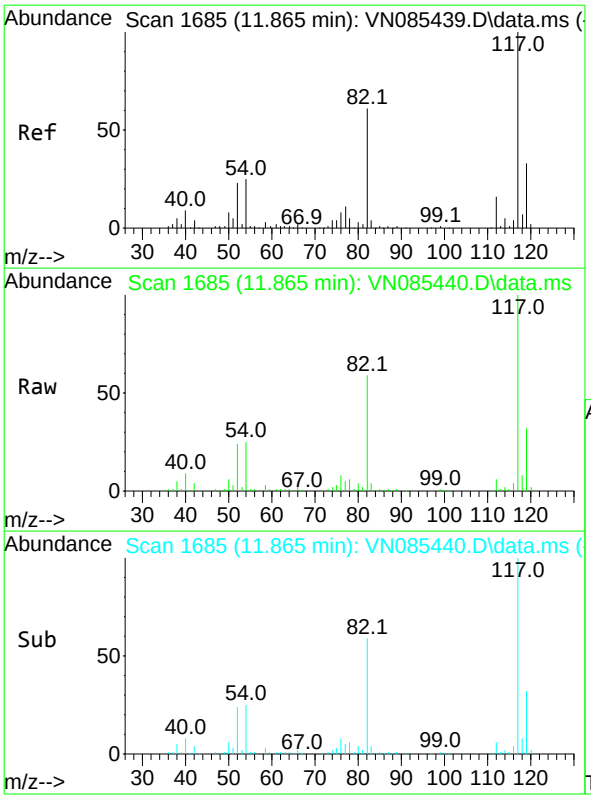




#62
4-Bromofluorobenzene
Concen: 19.430 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 95 Resp: 55798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.2 | 0.0 | 145.0 |
| 176 | 73.2 | 0.0 | 142.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

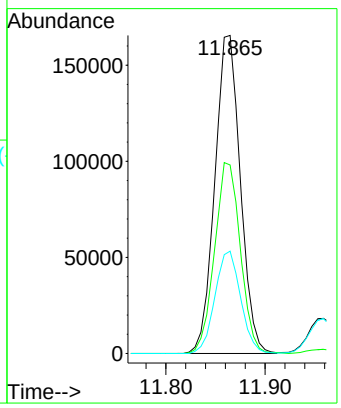
Tgt Ion:117 Resp: 296298

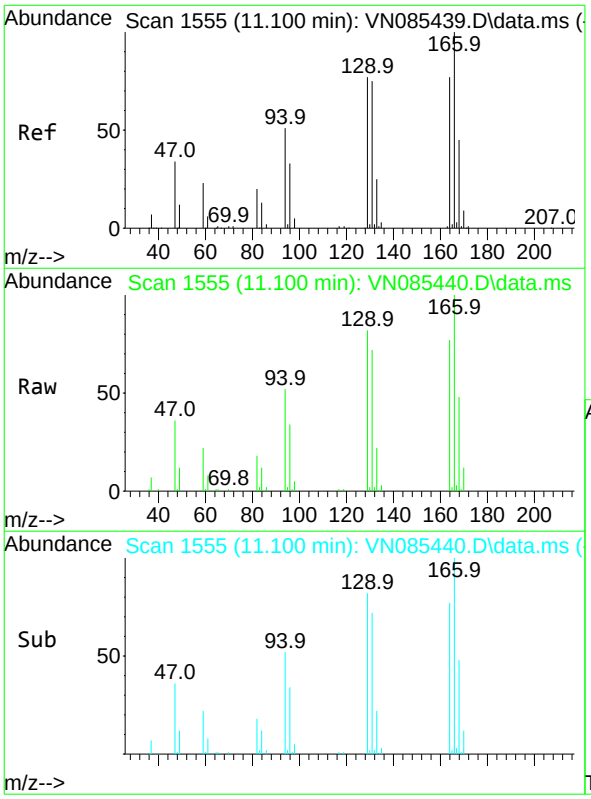
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.3 | 48.6 | 72.8 |
| 119 | 32.2 | 26.6 | 39.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

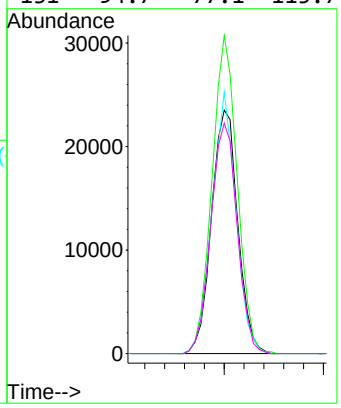


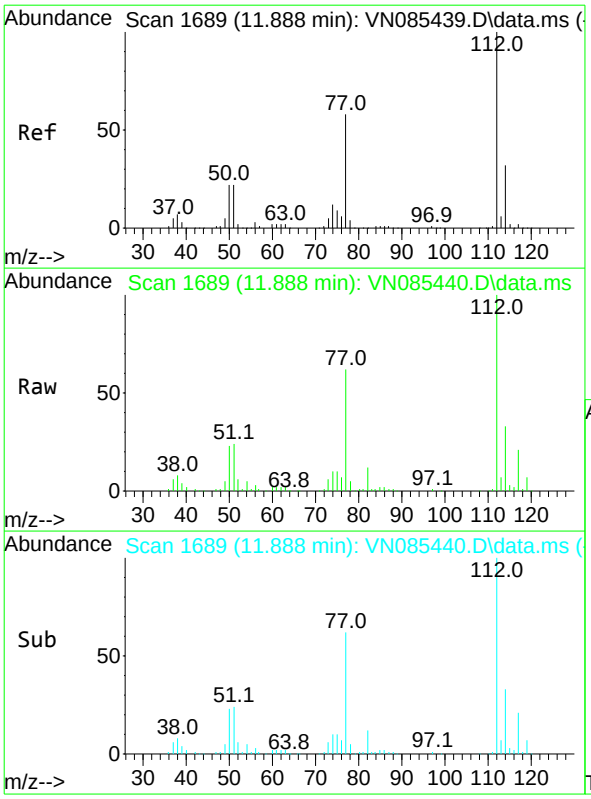




#64
Tetrachloroethene
Concen: 21.408 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:164 Resp: 43243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 130.6 | 103.4 | 155.2 |
| 129 | 107.4 | 79.2 | 118.8 |
| 131 | 94.7 | 77.1 | 115.7 |






#65
Chlorobenzene
Concen: 21.077 ug/l
RT: 11.888 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

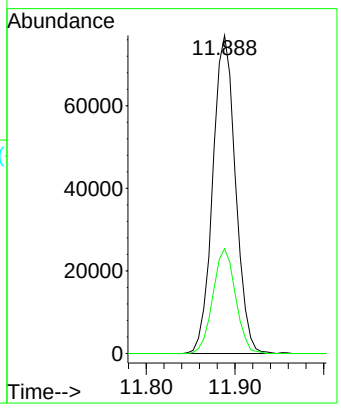
Tgt Ion:112 Resp: 136809

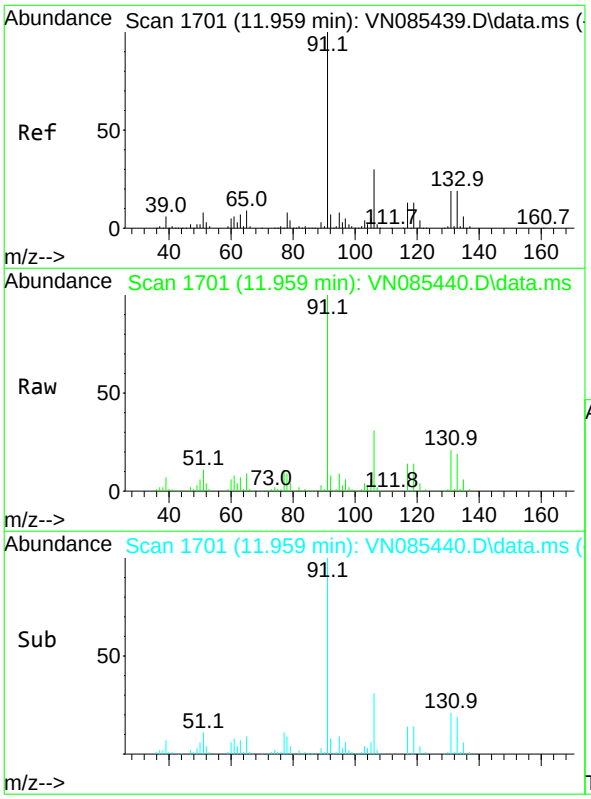
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.9 | 25.3 | 37.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

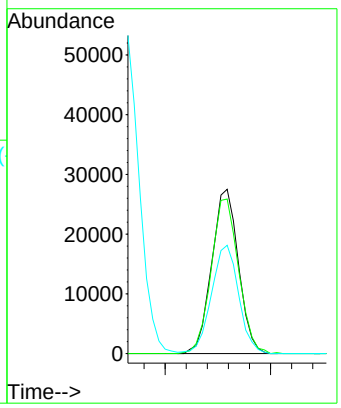


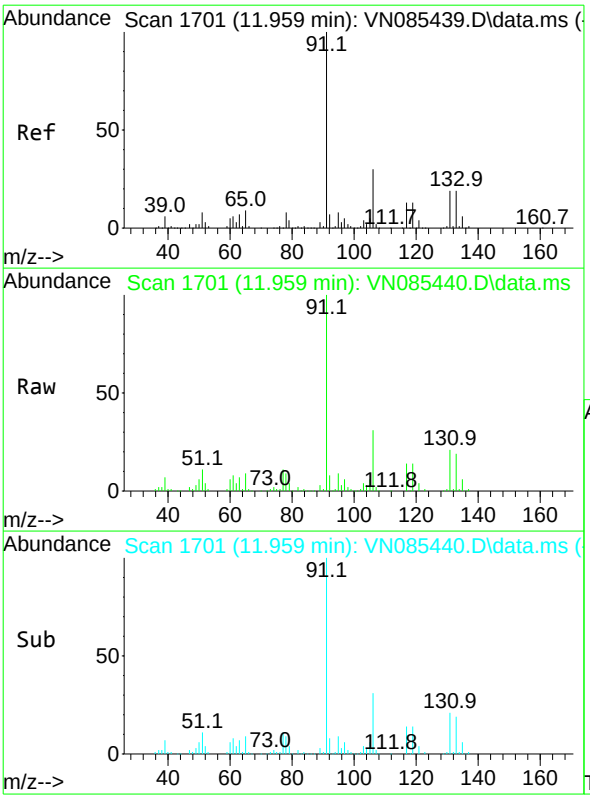




#66
1,1,1,2-Tetrachloroethane
Concen: 20.304 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:131 Resp: 48370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.9 | 47.4 | 142.3 |
| 119 | 67.2 | 33.1 | 99.5 |






#67
Ethyl Benzene
Concen: 21.753 ug/l
RT: 11.959 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

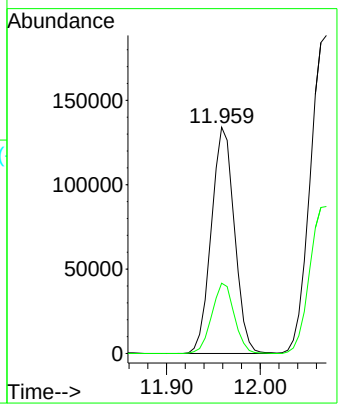
Tgt Ion: 91 Resp: 229978

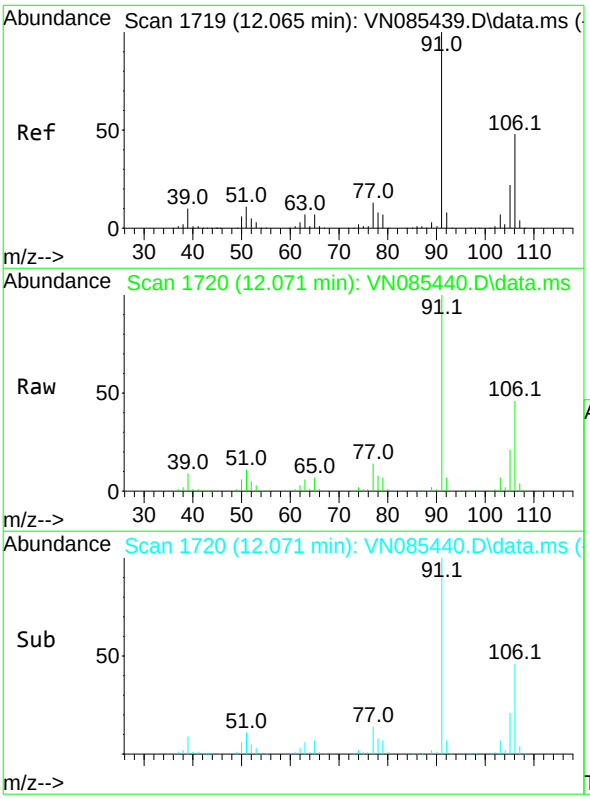
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.1 | 23.8 | 35.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

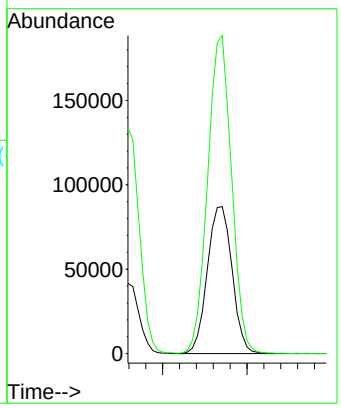


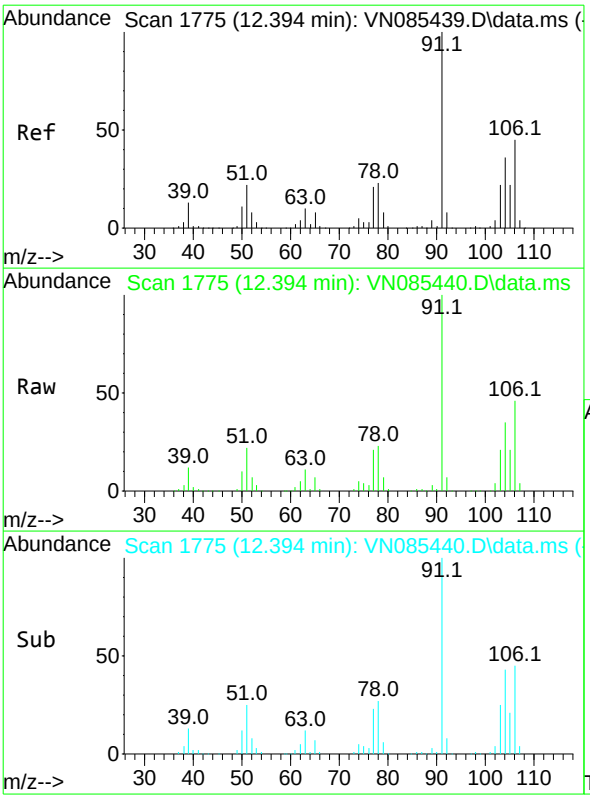




#68
m/p-Xylenes
Concen: 45.494 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:106 Resp: 177755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.3 | 167.7 | 251.5 |






#69
o-Xylene
Concen: 22.643 ug/l
RT: 12.394 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:106 Resp: 84548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.0 | 110.4 | 331.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

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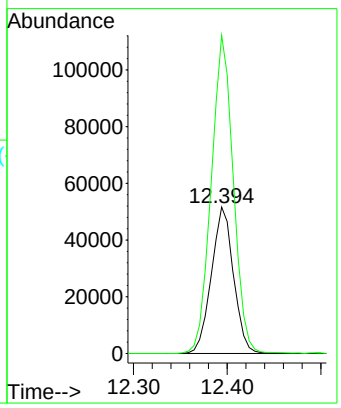
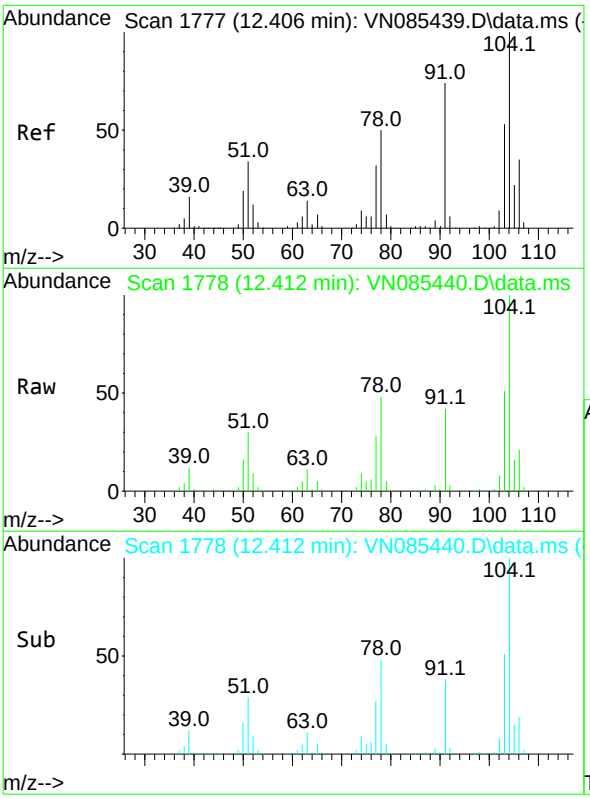
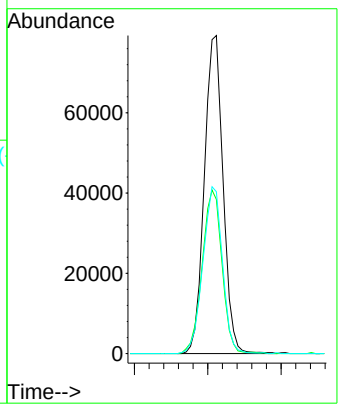


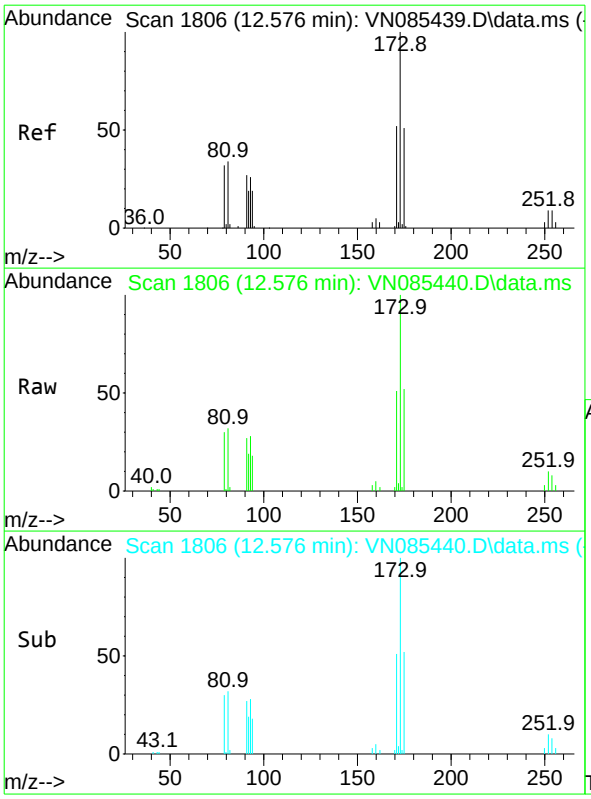




#70
Styrene
Concen: 22.749 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:104 Resp: 140581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 54.4 | 42.5 | 63.7 |
| 103 | 54.8 | 43.8 | 65.8 |






#71
Bromoform
Concen: 21.683 ug/l
RT: 12.576 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:173 Resp: 36961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 51.7 | 24.4 | 73.2 |
| 254 | 0.0 | 0.0 | 0.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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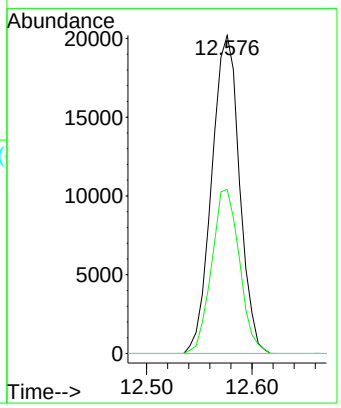
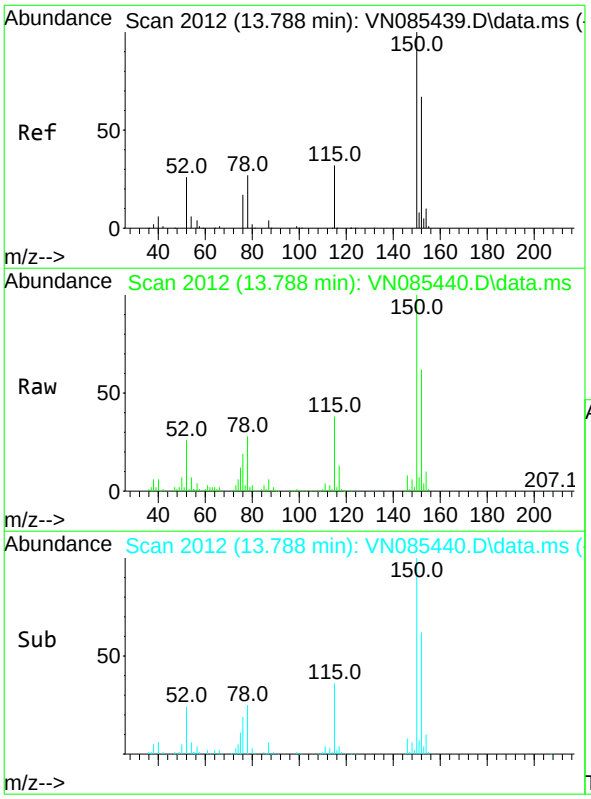
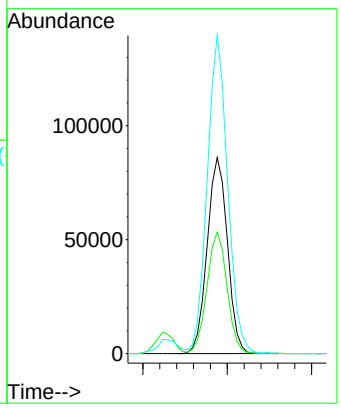


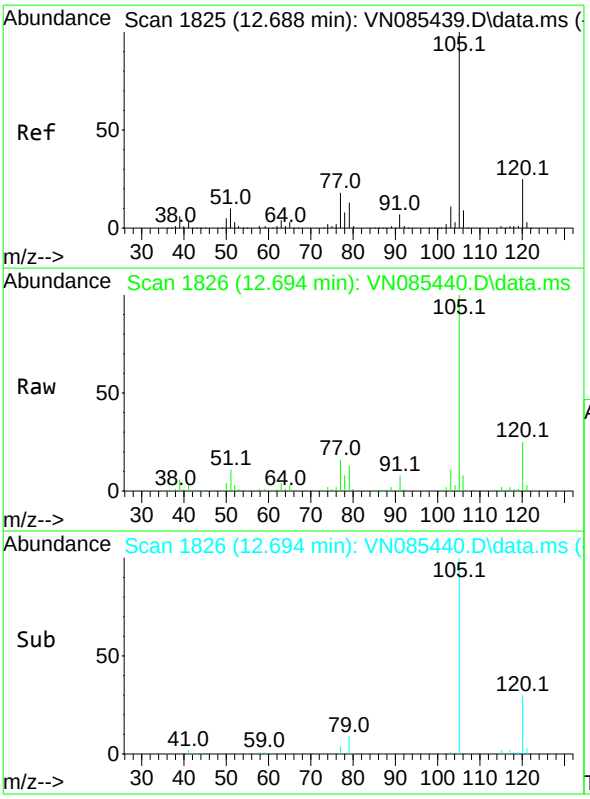




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:152 Resp: 143526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.4 | 31.1 | 93.3 |
| 150 | 163.9 | 0.0 | 343.6 |






#73
Isopropylbenzene
Concen: 21.819 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:105 Resp: 211354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.5 | 12.8 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

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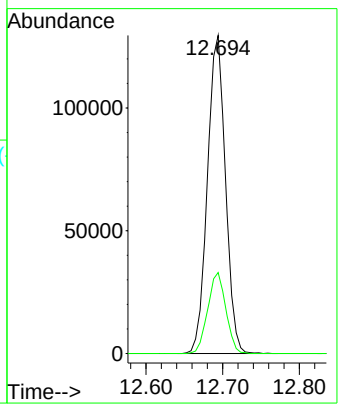
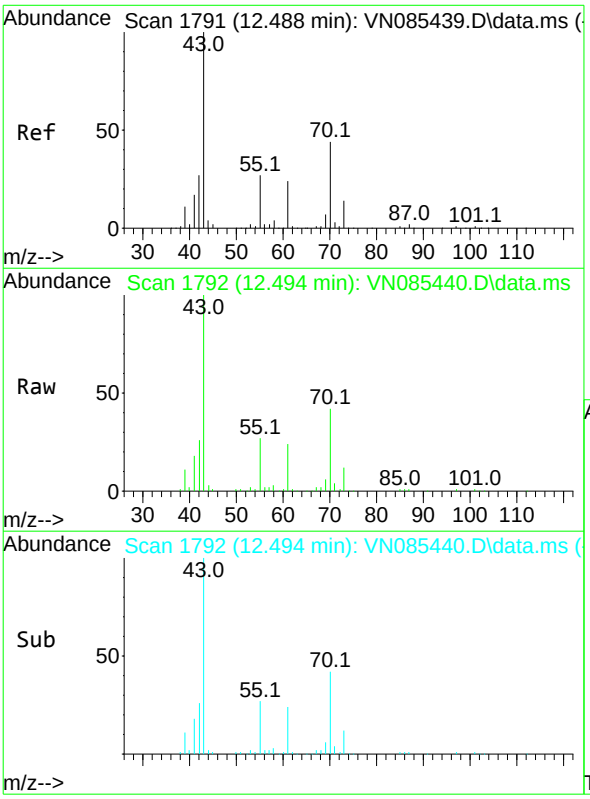
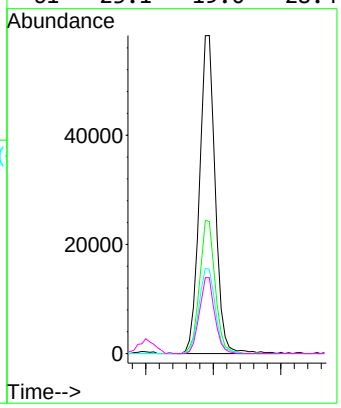


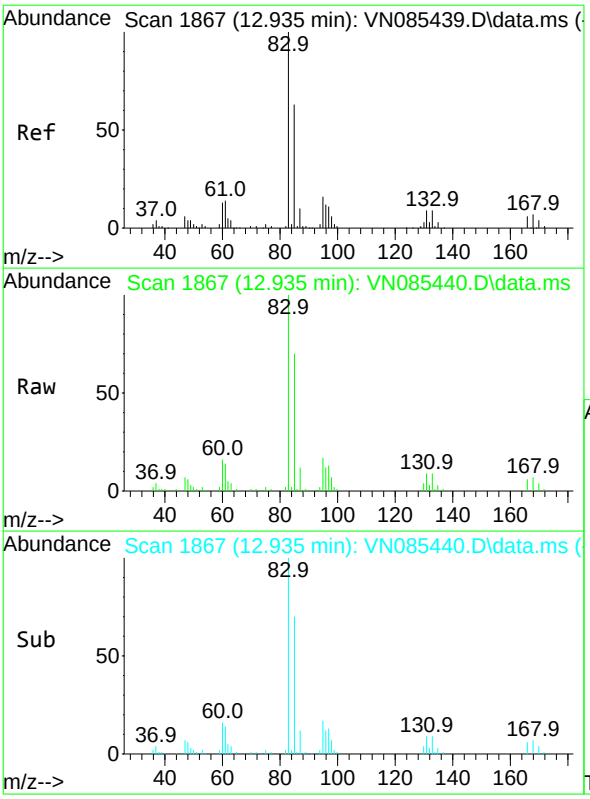




#74
N-amyl acetate
Concen: 21.656 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 94292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 41.4 | 34.0 | 51.0 |
| 55 | 27.9 | 21.4 | 32.2 |
| 61 | 23.1 | 19.0 | 28.4 |






#75
1,1,2,2-Tetrachloroethane
Concen: 19.917 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 68151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 4.8 | 14.4 |
| 85 | 65.5 | 32.2 | 96.6 |

**Manual Integrations**
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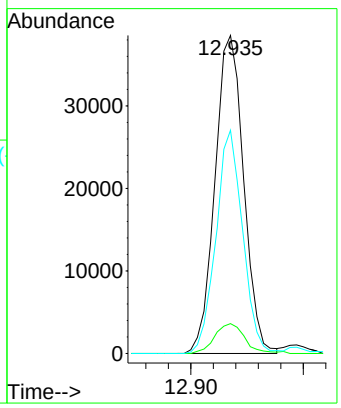
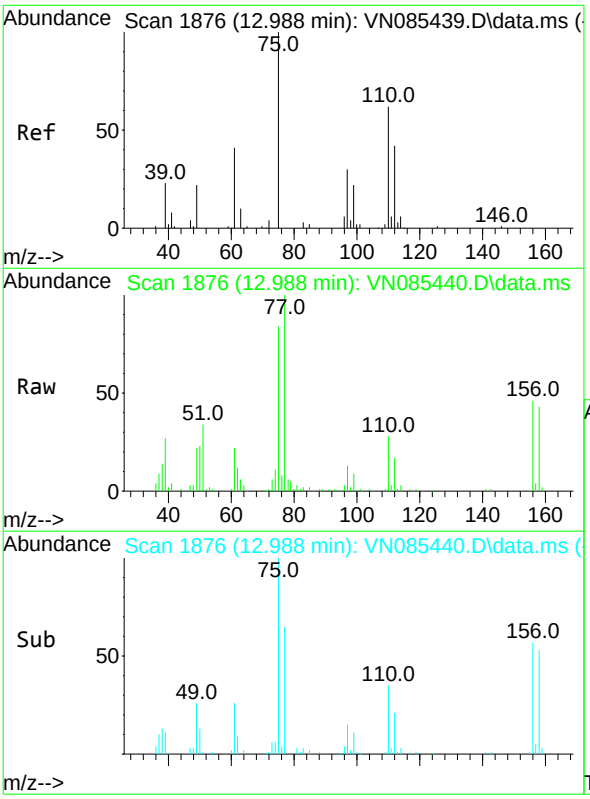
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

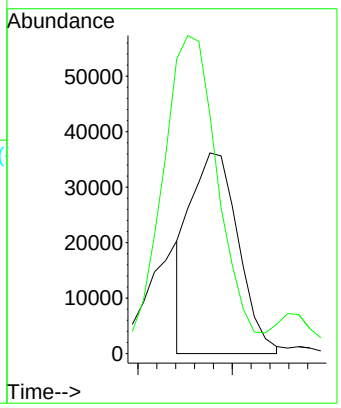


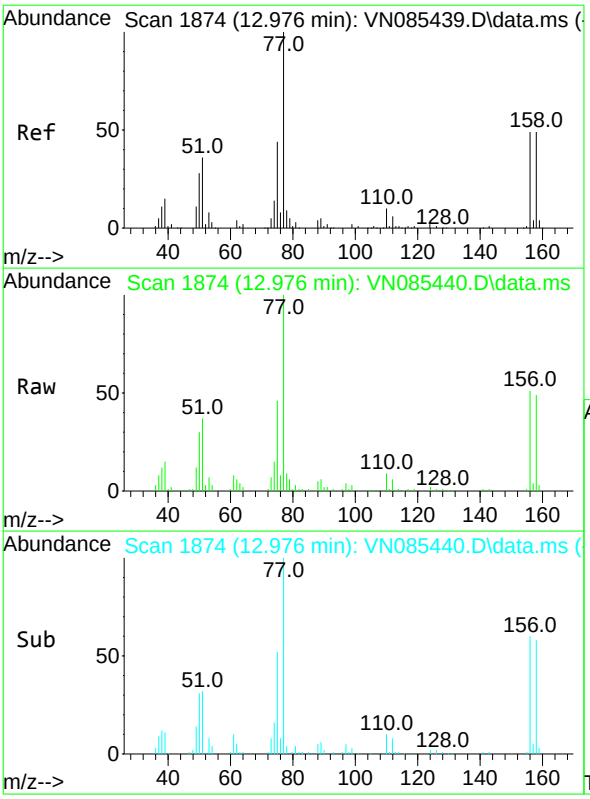




#76
1,2,3-Trichloropropane
Concen: 22.036 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 64180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 186.8 | 109.7 | 329.2 |






#77
Bromobenzene
Concen: 20.556 ug/l
RT: 12.976 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:156 Resp: 52022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 230.4 | 114.1 | 342.4 |
| 158 | 97.0 | 48.9 | 146.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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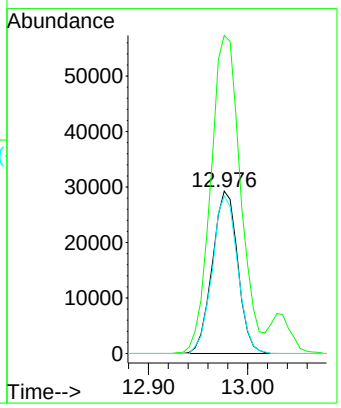
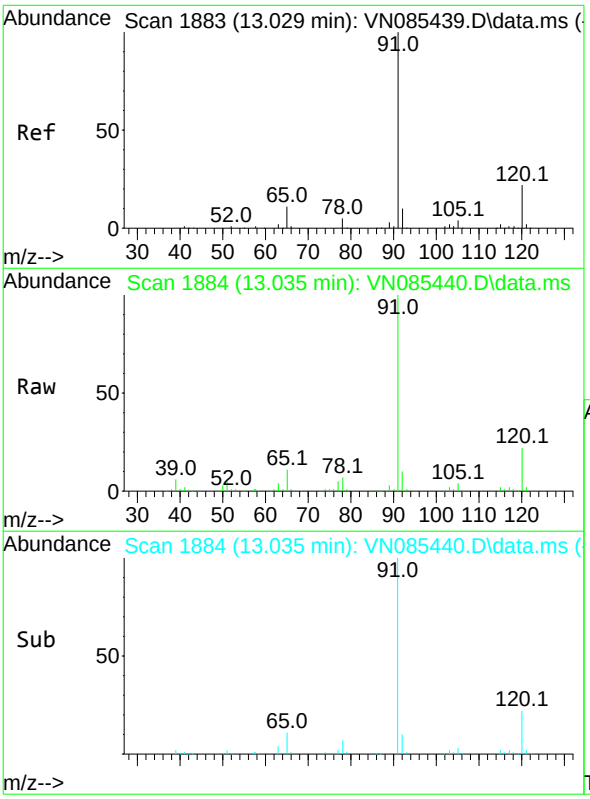
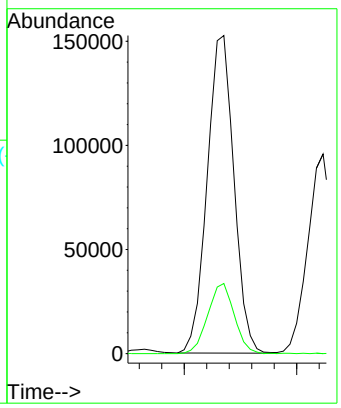


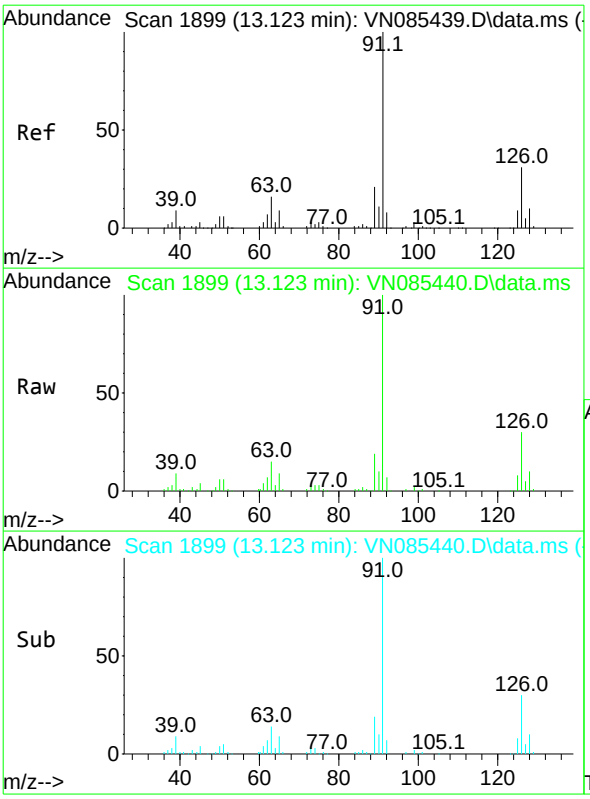




#78
n-propylbenzene
Concen: 22.028 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 91 Resp: 252610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.8 | 10.9 | 32.6 |






#79
2-Chlorotoluene
Concen: 21.358 ug/l
RT: 13.123 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 91 Resp: 158511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.5 | 15.7 | 47.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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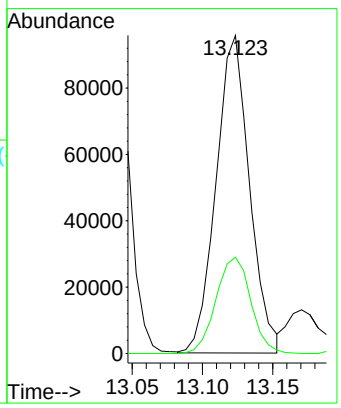
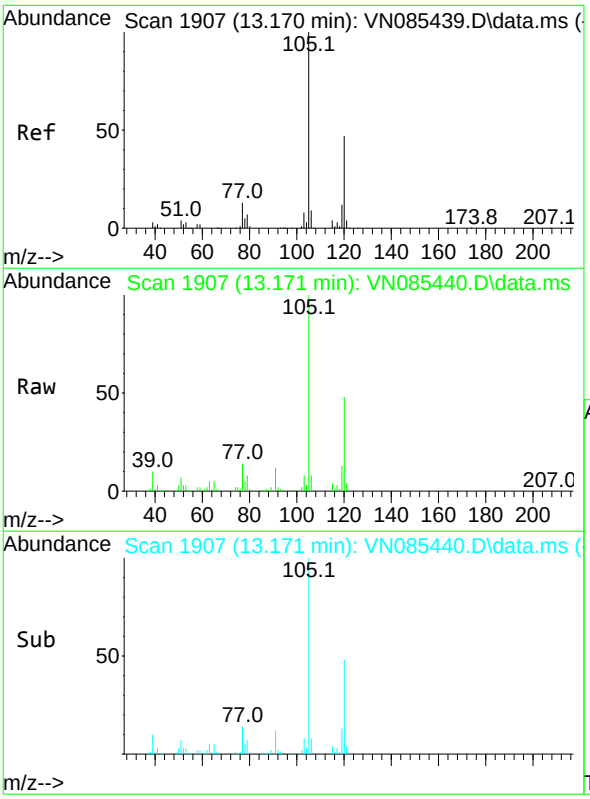
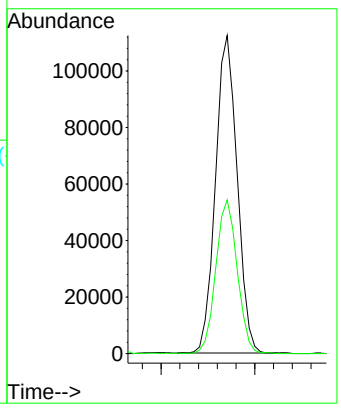


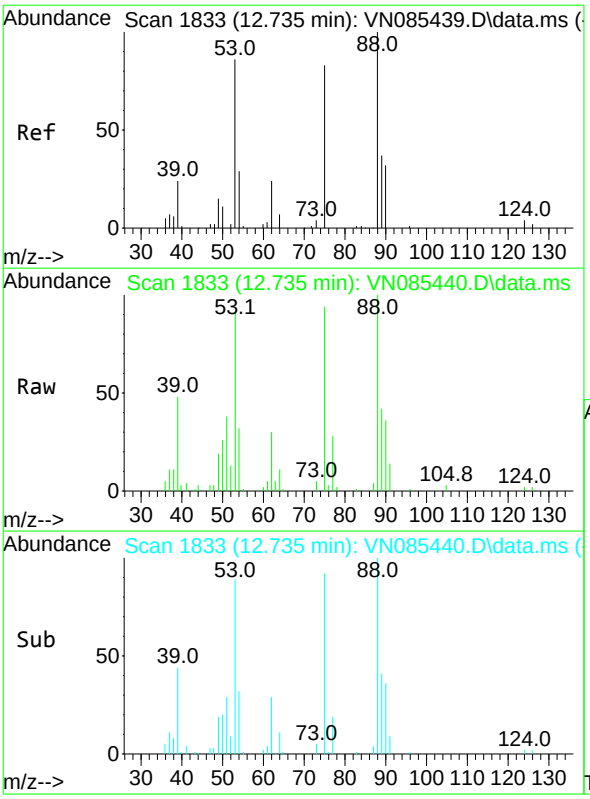




#80
1,3,5-Trimethylbenzene
Concen: 22.533 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:105 Resp: 180294

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






#81
trans-1,4-Dichloro-2-butene
Concen: 20.569 ug/l m
RT: 12.735 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 22178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 107.2 | 95.6 | 143.4 |
| 89 | 46.9 | 37.0 | 55.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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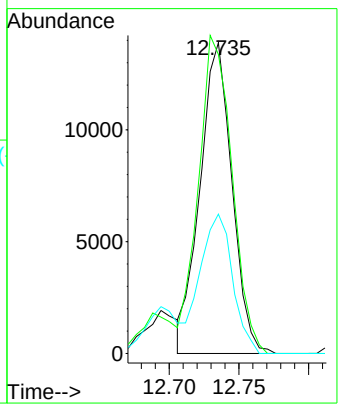
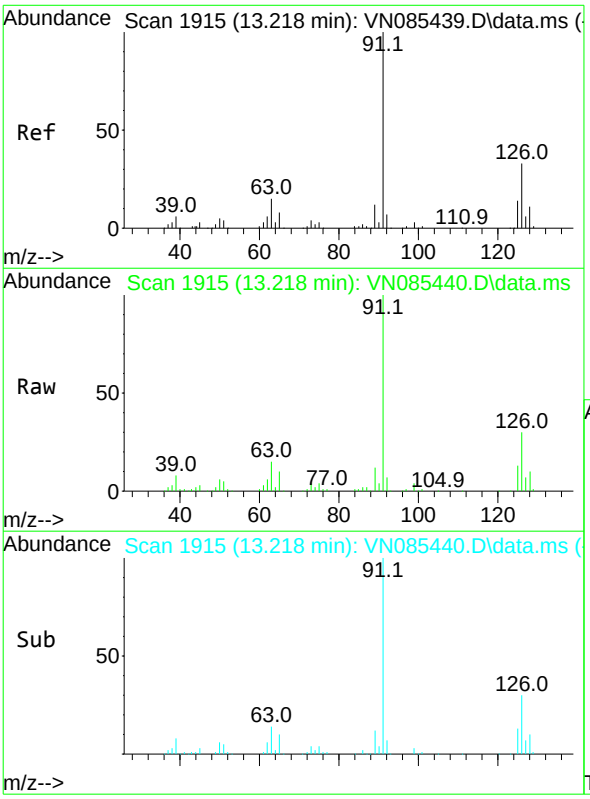
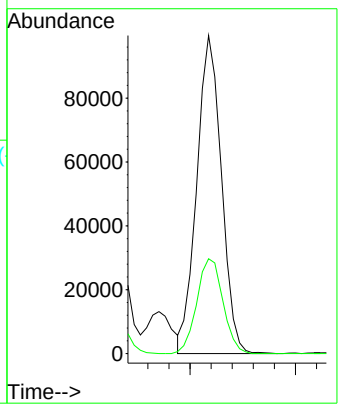


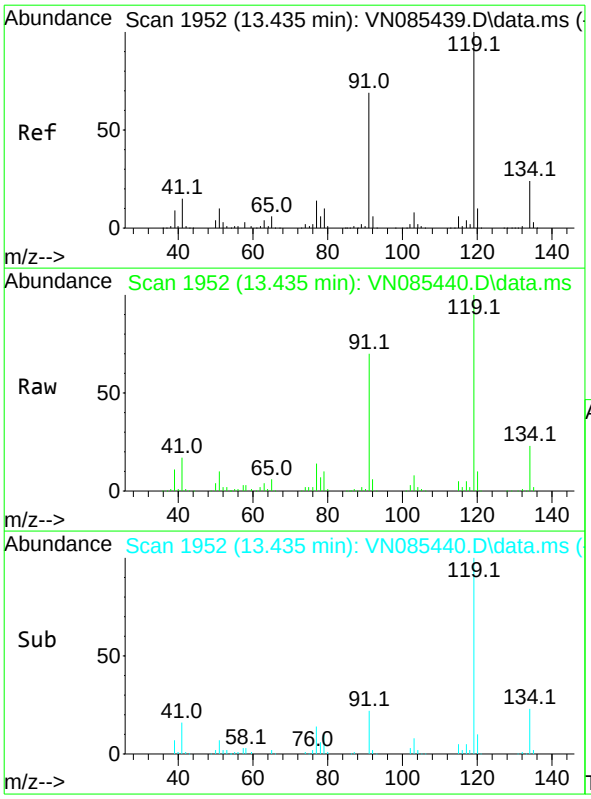




#82
4-Chlorotoluene
Concen: 21.906 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 91 Resp: 161880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.6 | 15.9 | 47.7 |






#83
tert-Butylbenzene
Concen: 21.958 ug/l
RT: 13.435 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

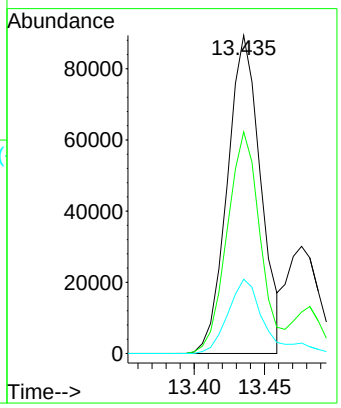
Tgt Ion:119 Resp: 147541

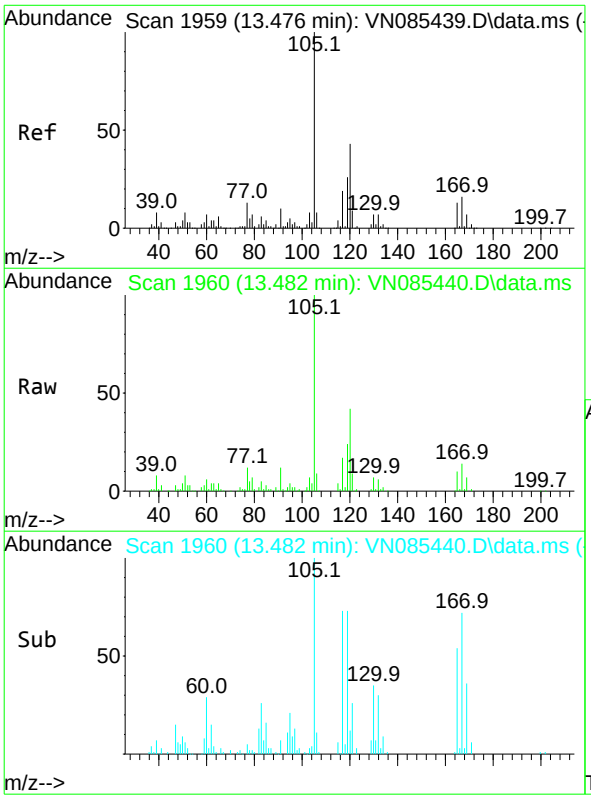
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 69.5 | 35.1 | 105.3 |
| 134 | 25.5 | 12.0 | 36.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

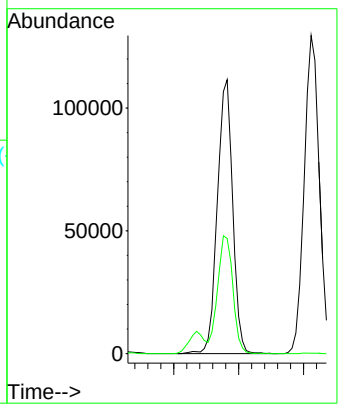


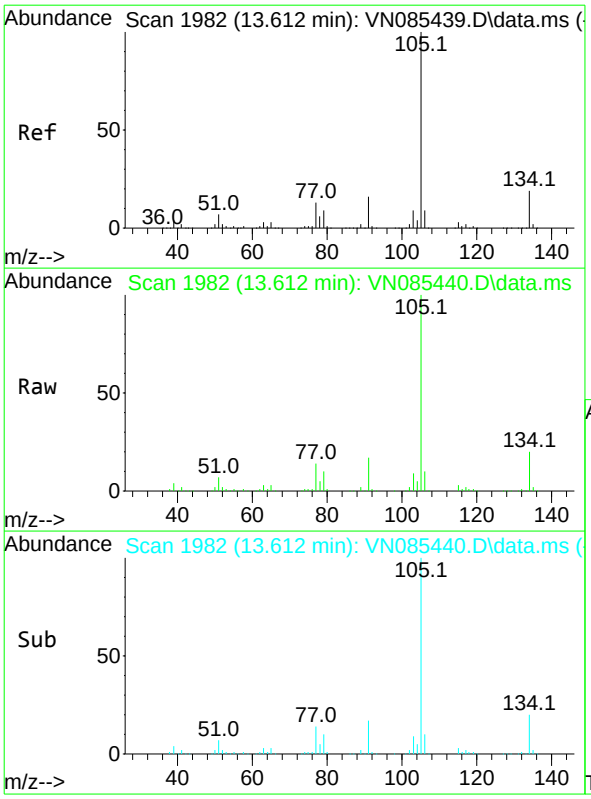




#84
1,2,4-Trimethylbenzene
Concen: 22.965 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:105 Resp: 183144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.8 | 21.6 | 65.0 |






#85
sec-Butylbenzene
Concen: 22.457 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

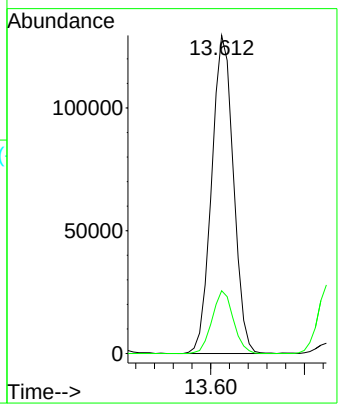
Tgt Ion:105 Resp: 209133

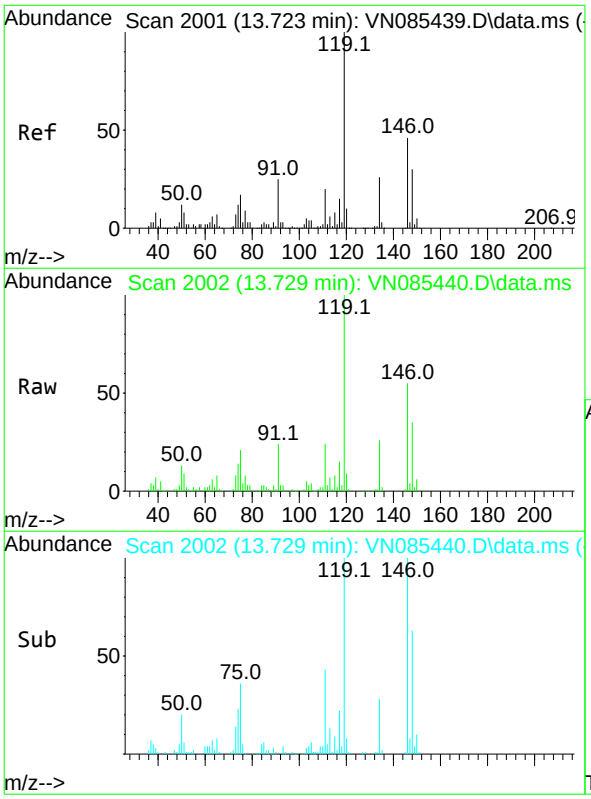
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.2 | 9.7 | 28.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

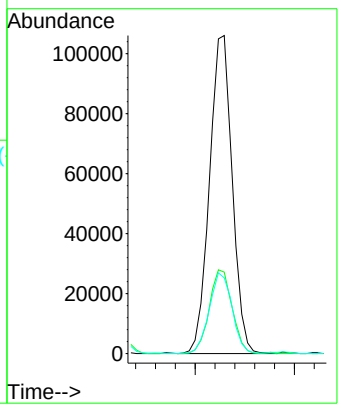


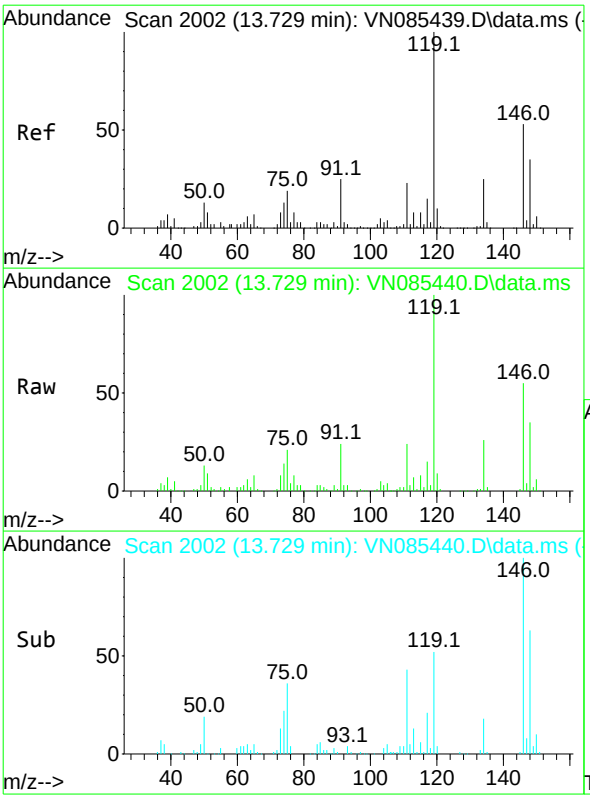




#86
p-Isopropyltoluene
Concen: 21.661 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:119 Resp: 168888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 12.7 | 38.0 |
| 91 | 25.5 | 12.7 | 38.1 |






#87
1,3-Dichlorobenzene
Concen: 20.952 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

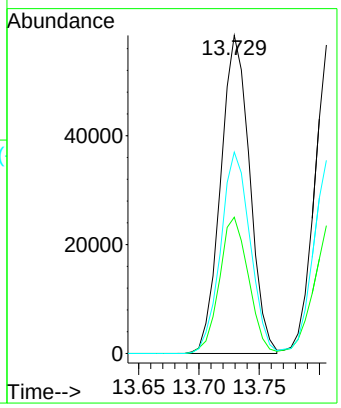
Tgt Ion:146 Resp: 97652

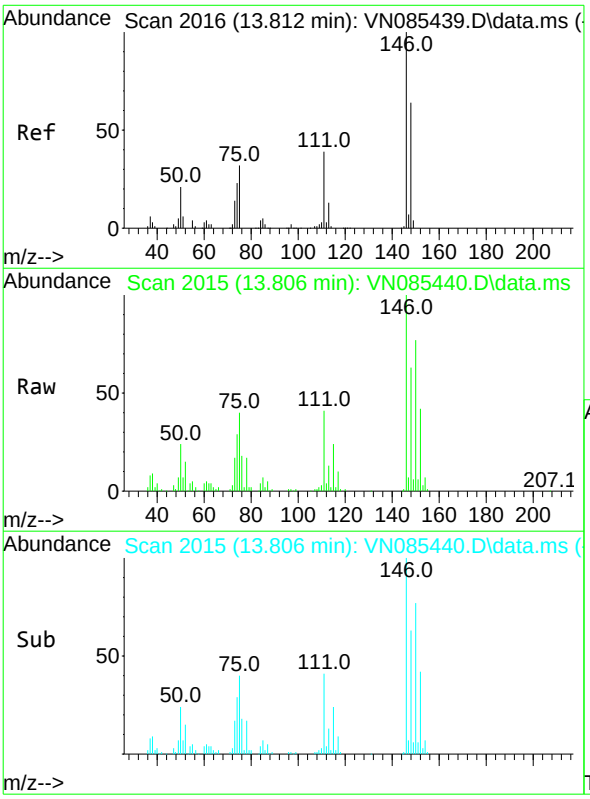
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.9 | 21.4 | 64.3 |
| 148 | 64.3 | 32.3 | 96.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

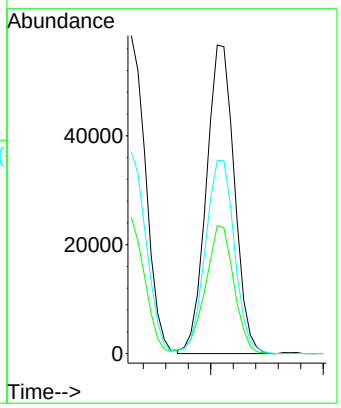


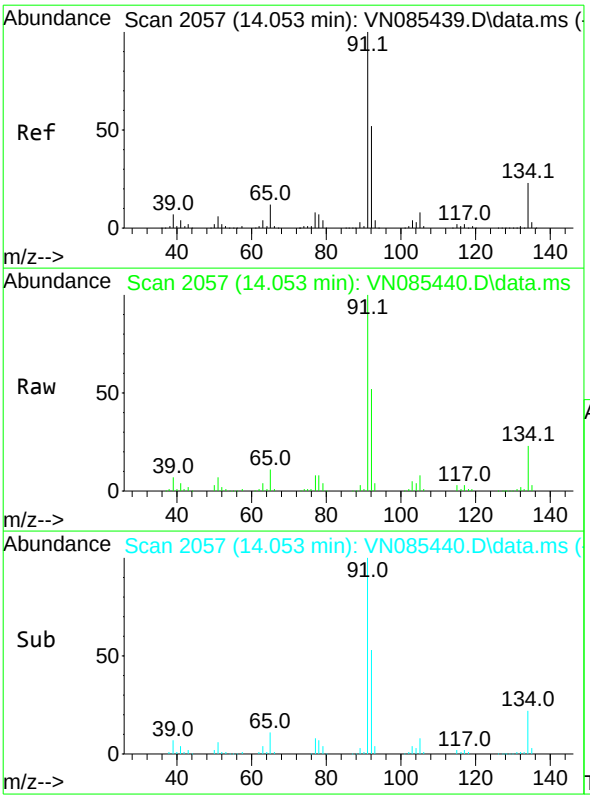




#88
1,4-Dichlorobenzene
Concen: 20.351 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:146 Resp: 98321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.2 | 21.3 | 63.7 |
| 148 | 65.1 | 32.4 | 97.0 |






#89
n-Butylbenzene
Concen: 21.355 ug/l
RT: 14.053 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

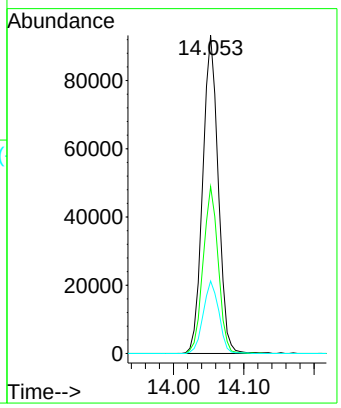
Tgt Ion: 91 Resp: 142673

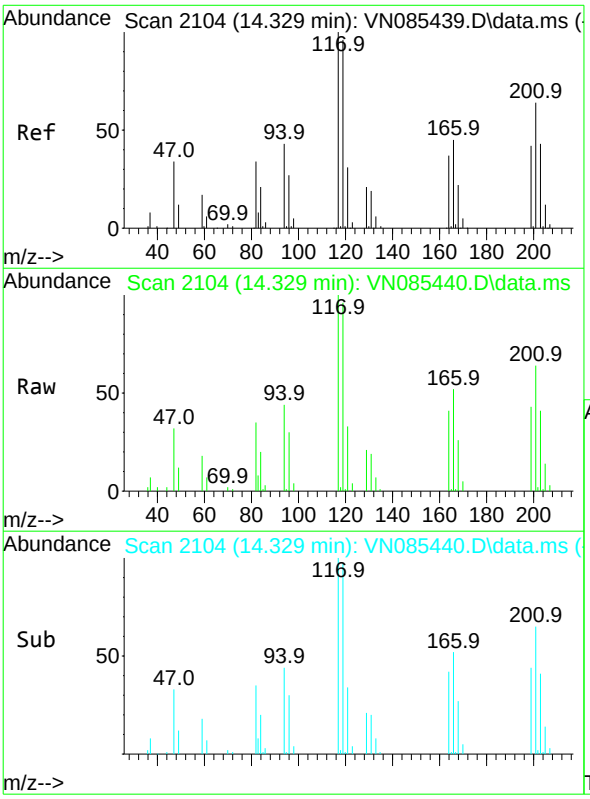
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.0 | 25.8 | 77.3 |
| 134 | 23.0 | 11.7 | 35.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

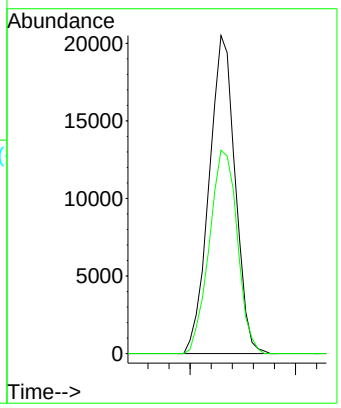


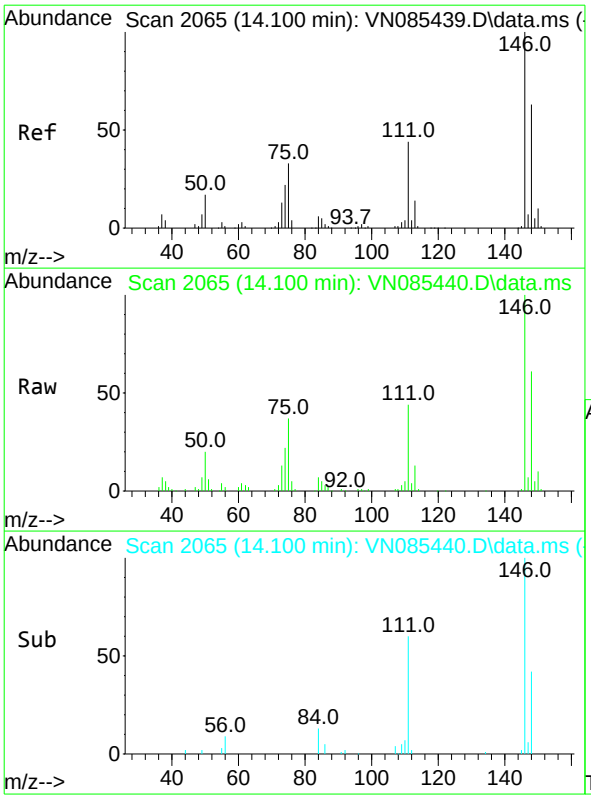




#90
Hexachloroethane
Concen: 19.858 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:117 Resp: 35205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 68.8 | 33.7 | 101.0 |






#91
1,2-Dichlorobenzene
Concen: 20.425 ug/l
RT: 14.100 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

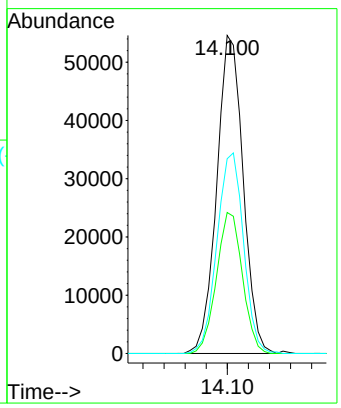
Tgt Ion:146 Resp: 94954

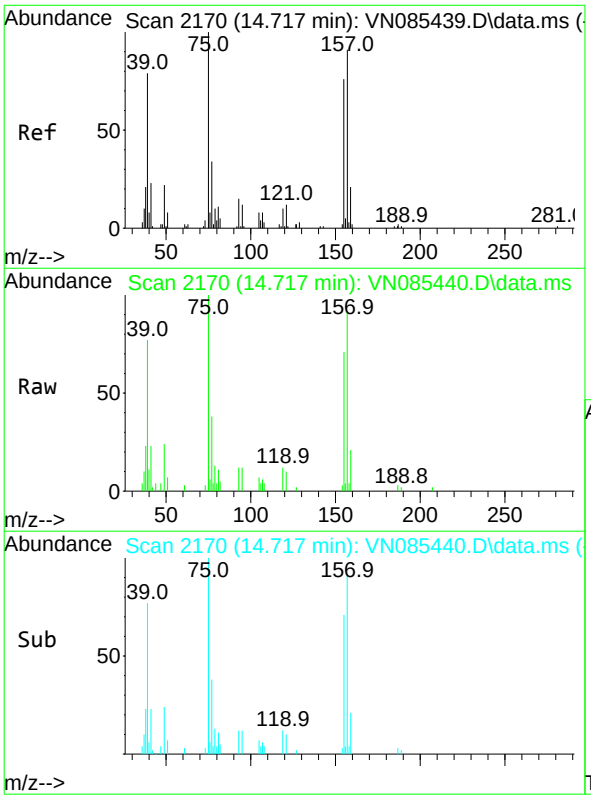
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.5 | 21.7 | 65.1 |
| 148 | 63.5 | 31.4 | 94.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

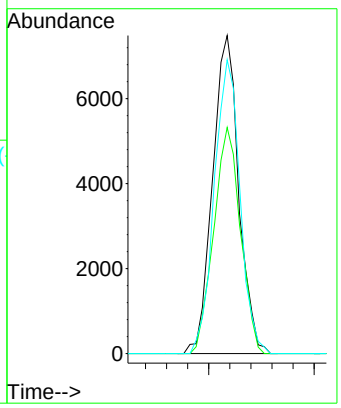


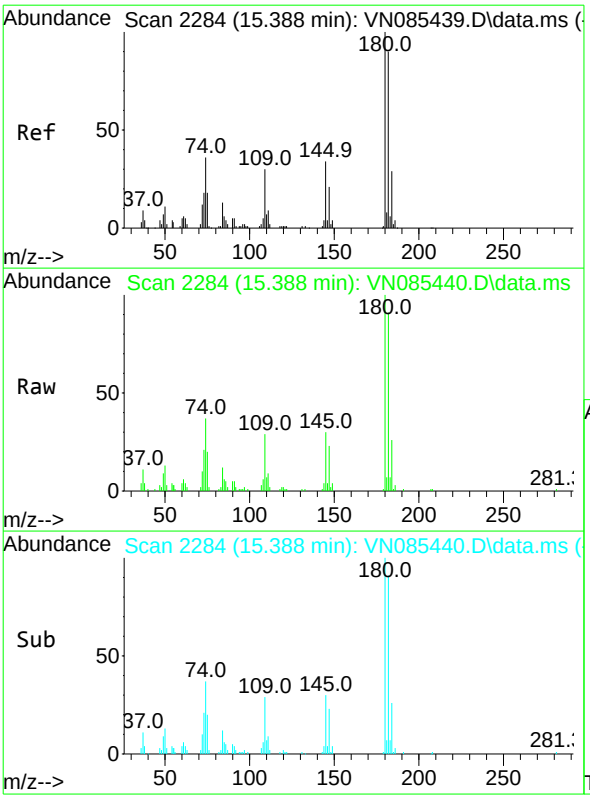




#92
1,2-Dibromo-3-Chloropropane
Concen: 20.580 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 12859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 72.7 | 36.4 | 109.2 |
| 157 | 90.9 | 45.4 | 136.1 |






#93
1,2,4-Trichlorobenzene
Concen: 21.233 ug/l
RT: 15.388 min Scan# 22
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

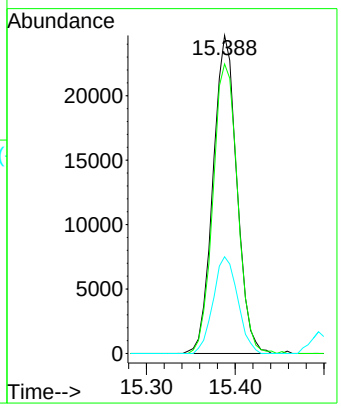
Tgt Ion:180 Resp: 45878

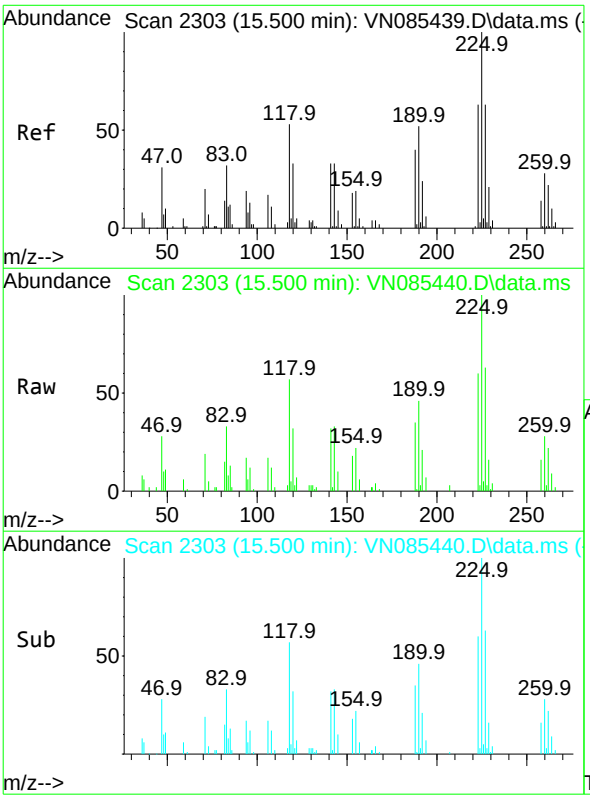
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.2 | 46.8 | 140.3 |
| 145 | 31.4 | 16.0 | 48.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

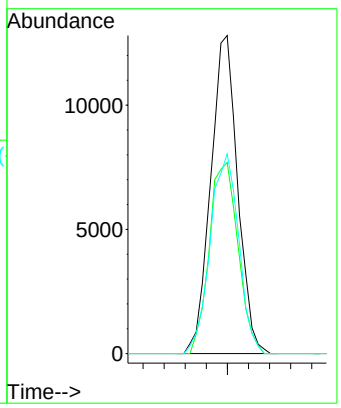


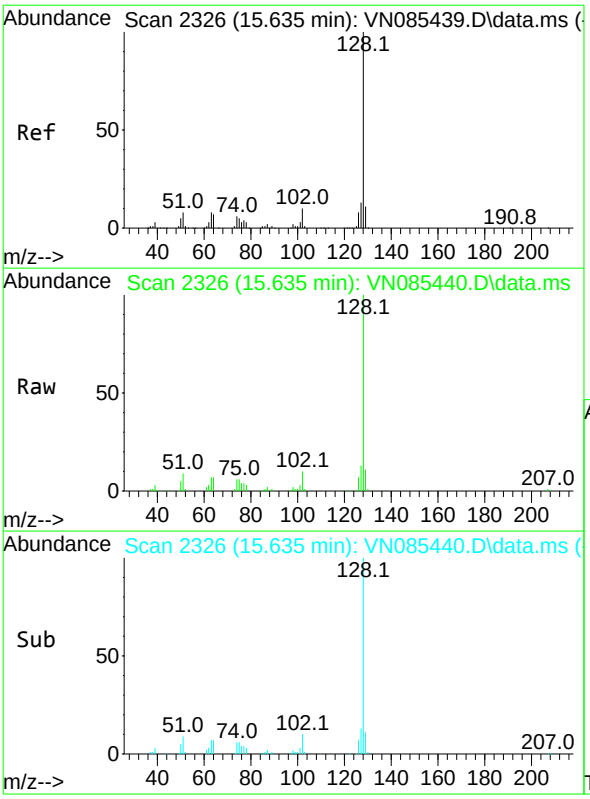




#94
Hexachlorobutadiene
Concen: 19.805 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:225 Resp: 22719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.3 | 30.7 | 92.1 |
| 227 | 66.3 | 30.9 | 92.5 |






#95
Naphthalene
Concen: 20.906 ug/l
RT: 15.635 min Scan# 23
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

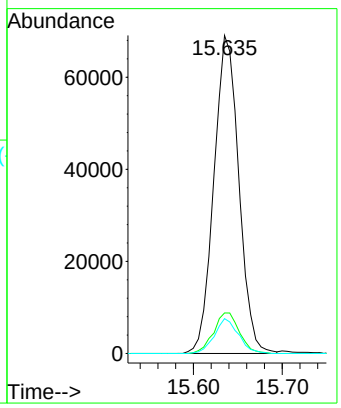
Tgt Ion:128 Resp: 134793

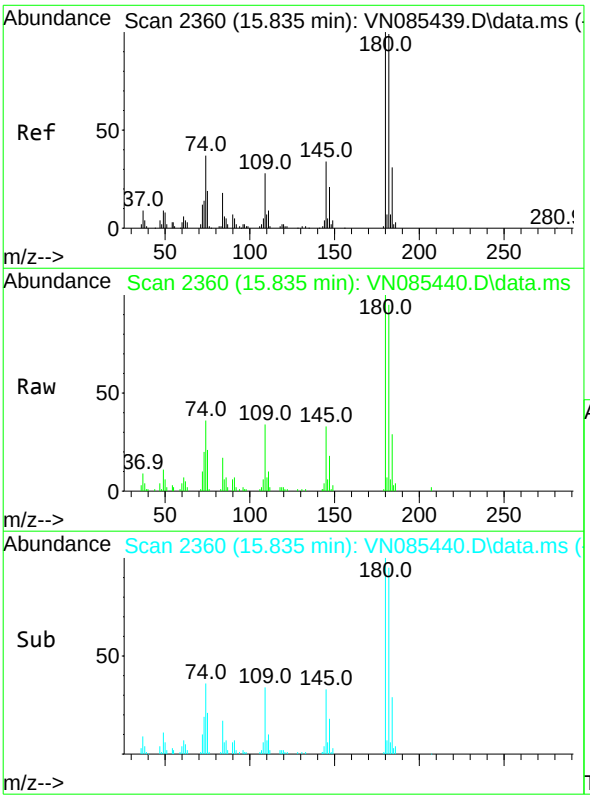
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.6 | 16.0 |
| 129 | 10.6 | 8.8 | 13.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

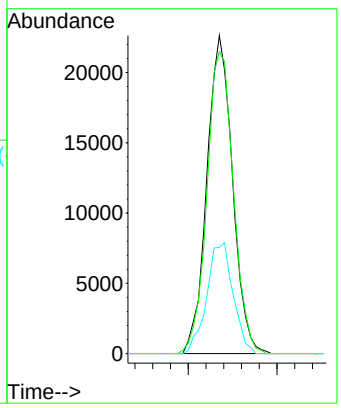



#96
1,2,3-Trichlorobenzene
Concen: 20.797 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:180 Resp: 45468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.9 | 47.4 | 142.2 |
| 145 | 35.7 | 16.9 | 50.7 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085441.D
Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 15 01:44:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 195889 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 340403 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 294508 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 132934 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.571 | 65 | 29856 | 9.442 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 18.880%# | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 21110 | 8.939 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 17.880%# | | | |
| 50) Toluene-d8 | 10.565 | 98 | 73223 | 8.727 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 17.460%# | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 24327 | 8.476 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 16.960%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 26124 | 9.850 | ug/l | 96 |
| 3) Chloromethane | 2.359 | 50 | 27143 | 9.452 | ug/l | 99 |
| 4) Vinyl Chloride | 2.512 | 62 | 27862 | 9.653 | ug/l | 100 |
| 5) Bromomethane | 2.965 | 94 | 17139 | 9.830 | ug/l | 87 |
| 6) Chloroethane | 3.130 | 64 | 16791 | 9.175 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.501 | 101 | 40755 | 9.731 | ug/l | 98 |
| 8) Diethyl Ether | 3.953 | 74 | 12415 | 8.581 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 22982 | 9.742 | ug/l | 98 |
| 10) Methyl Iodide | 4.589 | 142 | 25085 | 9.286 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.512 | 59 | 17962 | 49.608 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 20615 | 9.806 | ug/l | 99 |
| 13) Acrolein | 4.177 | 56 | 25568 | 51.729 | ug/l | 99 |
| 14) Allyl chloride | 5.018 | 41 | 32240 | 9.451 | ug/l | 97 |
| 15) Acrylonitrile | 5.712 | 53 | 53959 | 46.918 | ug/l | 98 |
| 16) Acetone | 4.424 | 43 | 48475 | 47.446 | ug/l | 98 |
| 17) Carbon Disulfide | 4.712 | 76 | 60201 | 9.300 | ug/l # | 94 |
| 18) Methyl Acetate | 5.030 | 43 | 30500 | 9.817 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.789 | 73 | 65207 | 9.552 | ug/l | 91 |
| 20) Methylene Chloride | 5.277 | 84 | 23723 | 9.379 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.783 | 96 | 21127 | 9.403 | ug/l | 97 |
| 22) Diisopropyl ether | 6.671 | 45 | 71857 | 9.490 | ug/l | 97 |
| 23) Vinyl Acetate | 6.600 | 43 | 250575 | 47.125 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 6.565 | 63 | 43099 | 9.335 | ug/l | 95 |
| 25) 2-Butanone | 7.477 | 43 | 71191 | 47.350 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.483 | 77 | 36105 | 9.672 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.489 | 96 | 25049 | 9.466 | ug/l | 97 |
| 28) Bromochloromethane | 7.806 | 49 | 19037 | 8.863 | ug/l | 97 |
| 29) Tetrahydrofuran | 7.836 | 42 | 45641 | 47.881 | ug/l | 98 |
| 30) Chloroform | 7.965 | 83 | 45792 | 9.596 | ug/l | 100 |
| 31) Cyclohexane | 8.253 | 56 | 40211 | 10.020 | ug/l # | 93 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 39170 | 9.358 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.371 | 75 | 30015 | 9.056 | ug/l | 97 |
| 37) Ethyl Acetate | 7.559 | 43 | 30760 | 9.195 | ug/l | 97 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 36015 | 9.492 | ug/l | 94 |
| 39) Methylcyclohexane | 9.594 | 83 | 27721 | 8.900 | ug/l | 95 |
| 40) Benzene | 8.600 | 78 | 93680 | 9.407 | ug/l | 96 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085441.D
Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 15 01:44:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.777 | 41 | 16859 | 9.686 ug/l | 96 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 35569 | 9.483 ug/l | 99 |
| 43) Isopropyl Acetate | 8.683 | 43 | 48926 | 9.127 ug/l | 99 |
| 44) Trichloroethene | 9.347 | 130 | 21113 | 9.108 ug/l | 95 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 22747 | 8.942 ug/l | 97 |
| 46) Dibromomethane | 9.706 | 93 | 17260 | 9.404 ug/l | 99 |
| 47) Bromodichloromethane | 9.883 | 83 | 35020 | 9.365 ug/l | 98 |
| 48) Methyl methacrylate | 9.677 | 41 | 21873 | 9.067 ug/l | 97 |
| 49) 1,4-Dioxane | 9.694 | 88 | 7734 | 190.382 ug/l | 98 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 146990 | 47.254 ug/l | 98 |
| 52) Toluene | 10.630 | 92 | 54976 | 9.527 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.835 | 75 | 32780 | 9.276 ug/l | 96 |
| 54) cis-1,3-Dichloropropene | 10.312 | 75 | 35904 | 9.512 ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 21060 | 9.222 ug/l | 98 |
| 56) Ethyl methacrylate | 10.871 | 69 | 28454 | 9.042 ug/l | 95 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 37768 | 9.512 ug/l | 98 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 63110 | 43.550 ug/l | 98 |
| 59) 2-Hexanone | 11.194 | 43 | 101318 | 46.291 ug/l | 98 |
| 60) Dibromochloromethane | 11.353 | 129 | 25029 | 9.079 ug/l | 98 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 21055 | 9.263 ug/l | 100 |
| 64) Tetrachloroethene | 11.100 | 164 | 19934 | 9.928 ug/l | 97 |
| 65) Chlorobenzene | 11.888 | 112 | 61680 | 9.560 ug/l | 93 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 21853 | 9.229 ug/l | 98 |
| 67) Ethyl Benzene | 11.959 | 91 | 99248 | 9.445 ug/l | 97 |
| 68) m/p-Xylenes | 12.065 | 106 | 72431 | 18.650 ug/l | 99 |
| 69) o-Xylene | 12.394 | 106 | 34382 | 9.264 ug/l | 99 |
| 70) Styrene | 12.406 | 104 | 56285 | 9.163 ug/l | 98 |
| 71) Bromoform | 12.576 | 173 | 16071 | 9.485 ug/l # | 98 |
| 73) Isopropylbenzene | 12.694 | 105 | 87003 | 9.697 ug/l | 99 |
| 74) N-amyl acetate | 12.494 | 43 | 37343 | 9.260 ug/l | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 30770 | 9.709 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.994 | 75 | 25443m | 9.432 ug/l | |
| 77) Bromobenzene | 12.976 | 156 | 22784 | 9.720 ug/l | 97 |
| 78) n-propylbenzene | 13.035 | 91 | 102262 | 9.628 ug/l | 98 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 68346 | 9.943 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 13.171 | 105 | 71656 | 9.669 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 9236 | 9.248 ug/l | 100 |
| 82) 4-Chlorotoluene | 13.218 | 91 | 66773 | 9.756 ug/l | 97 |
| 83) tert-Butylbenzene | 13.435 | 119 | 59455 | 9.553 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.476 | 105 | 72046 | 9.754 ug/l | 99 |
| 85) sec-Butylbenzene | 13.612 | 105 | 83662 | 9.699 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.729 | 119 | 67556 | 9.674 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 41843 | 9.693 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.812 | 146 | 42728 | 9.549 ug/l | 99 |
| 89) n-Butylbenzene | 14.053 | 91 | 57632 | 9.314 ug/l | 97 |
| 90) Hexachloroethane | 14.329 | 117 | 15261 | 9.294 ug/l | 97 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 40726 | 9.458 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 5639 | 9.744 ug/l | 95 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 18720 | 9.354 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 10491 | 9.874 ug/l | 98 |
| 95) Naphthalene | 15.635 | 128 | 52054 | 8.717 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 19450 | 9.605 ug/l | 96 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085441.D
Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

Quant Time: Jan 15 01:44:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

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

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

Quantitation Report (QT Reviewed)

ICAL Form

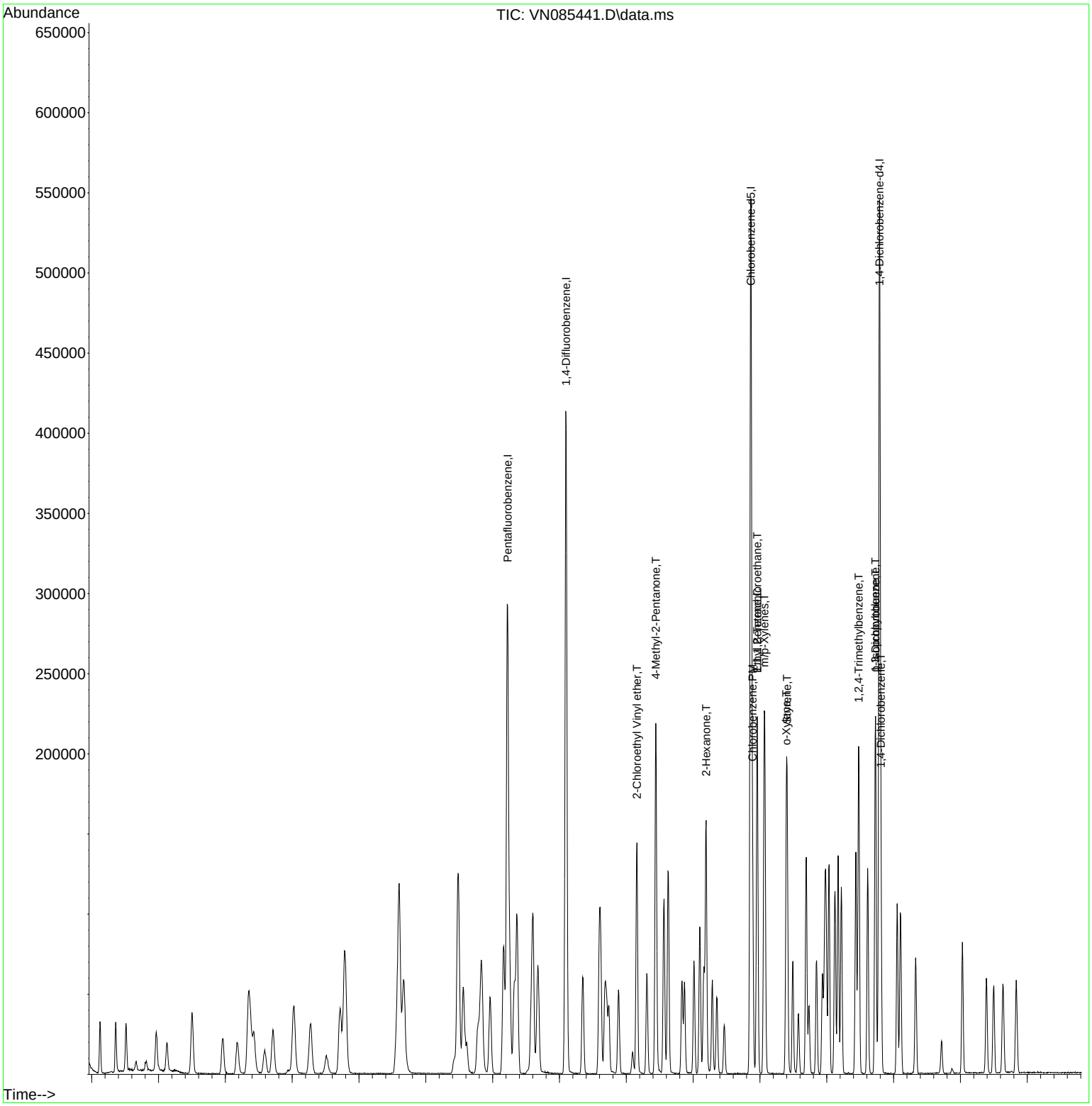
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085441.D
Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

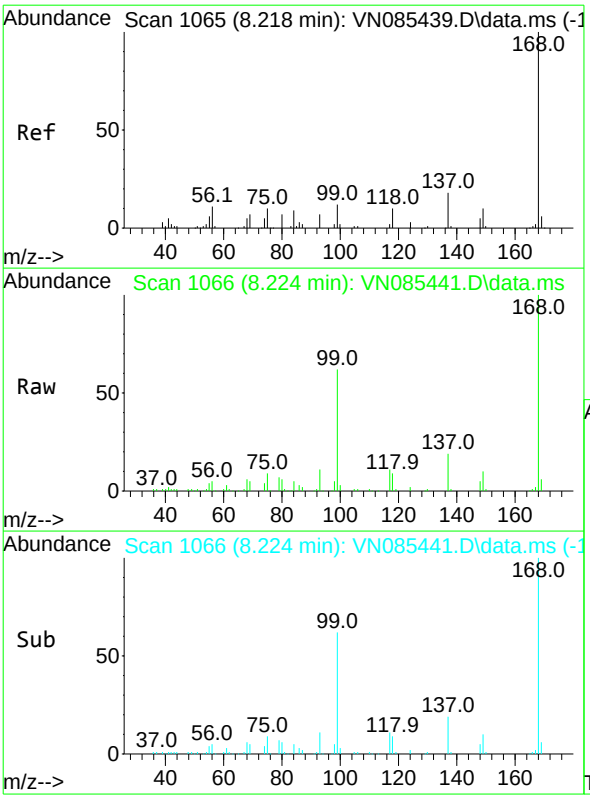
Quant Time: Jan 15 01:44:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:168 Resp: 195889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.7 | 53.6 | 80.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

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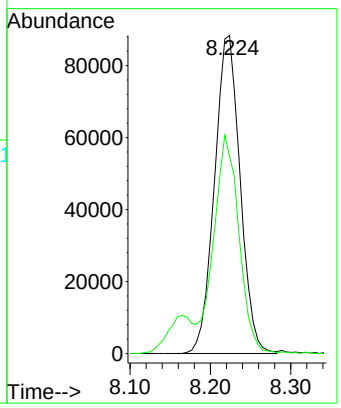
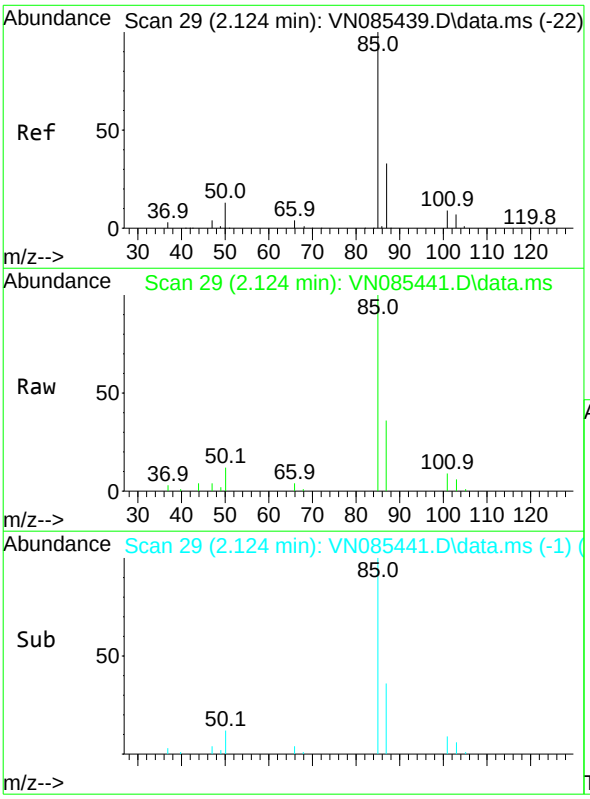
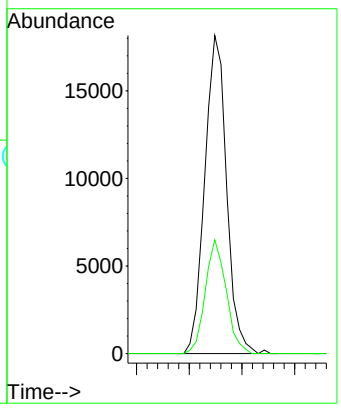


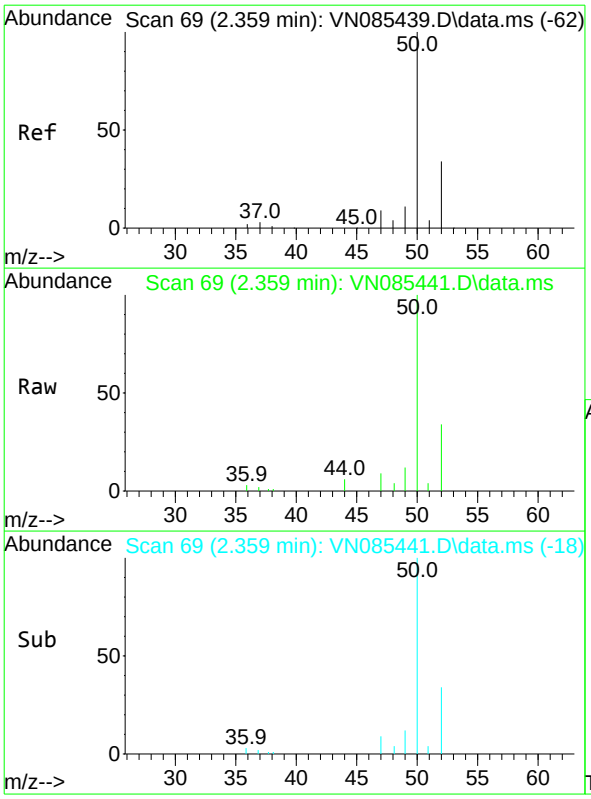




#2
Dichlorodifluoromethane
Concen: 9.850 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 85 Resp: 26124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 35.8 | 16.7 | 50.1 |






#3
Chloromethane
Concen: 9.452 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

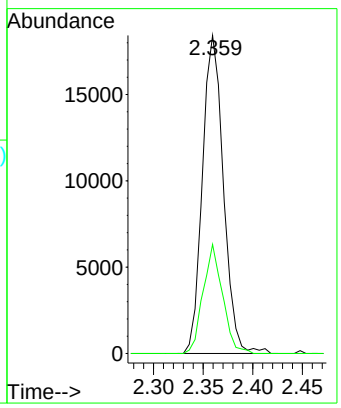
Tgt Ion: 50 Resp: 27143

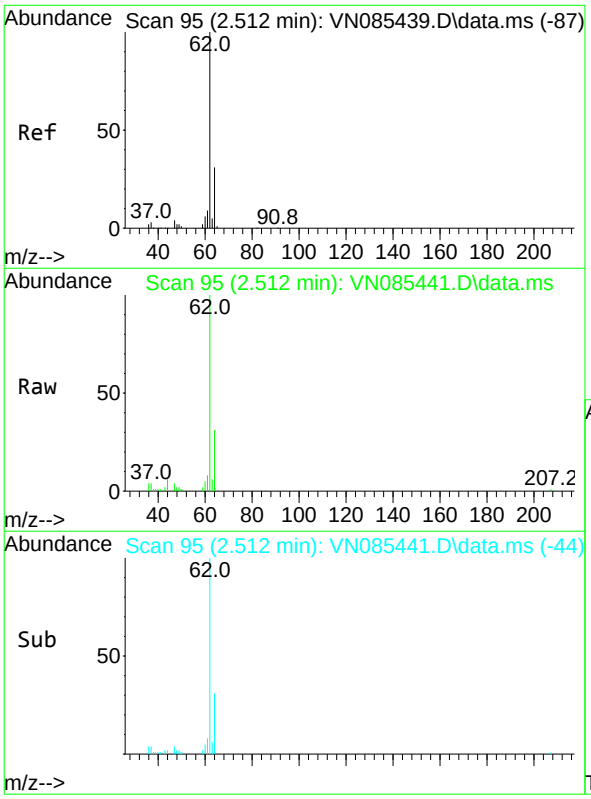
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.3 | 27.0 | 40.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

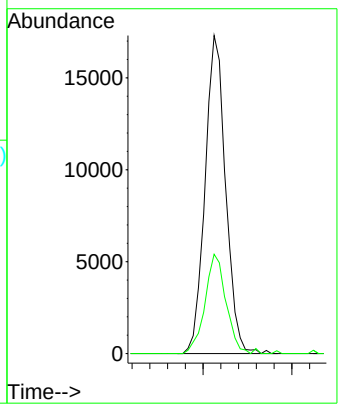


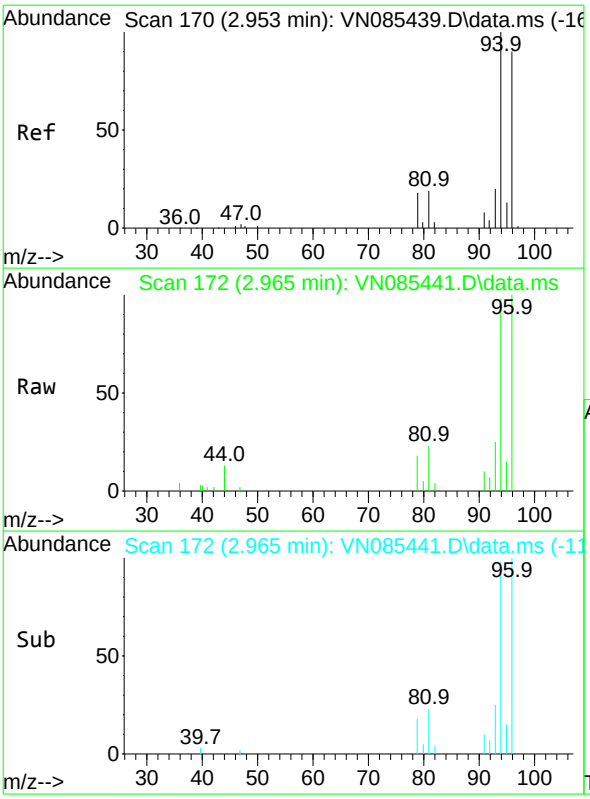




#4
Vinyl Chloride
Concen: 9.653 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 62 Resp: 27862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.2 | 24.8 | 37.2 |






#5
Bromomethane
Concen: 9.830 ug/l
RT: 2.965 min Scan# 17
Delta R.T. 0.012 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 94 Resp: 17139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 102.1 | 71.8 | 107.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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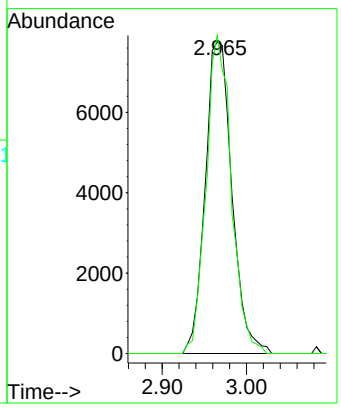
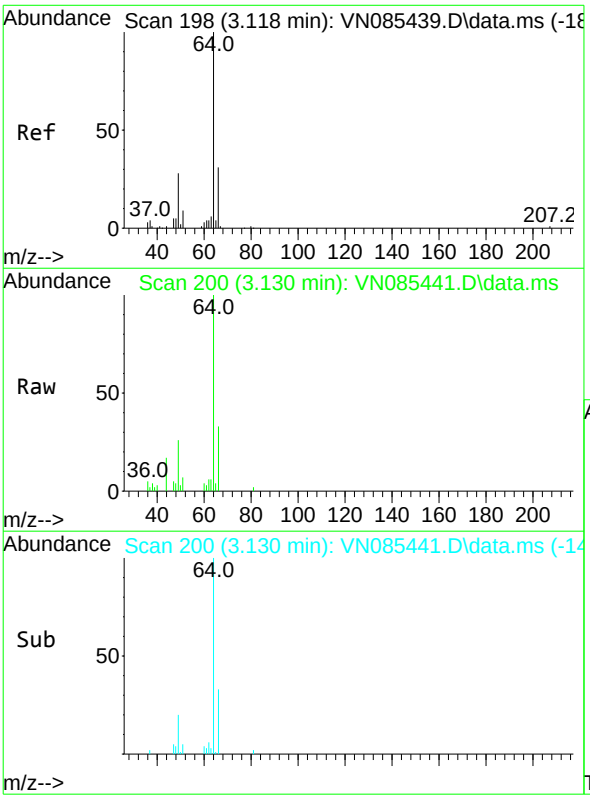
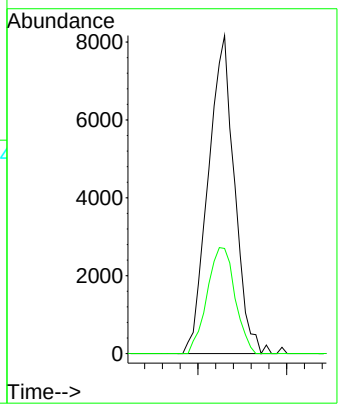


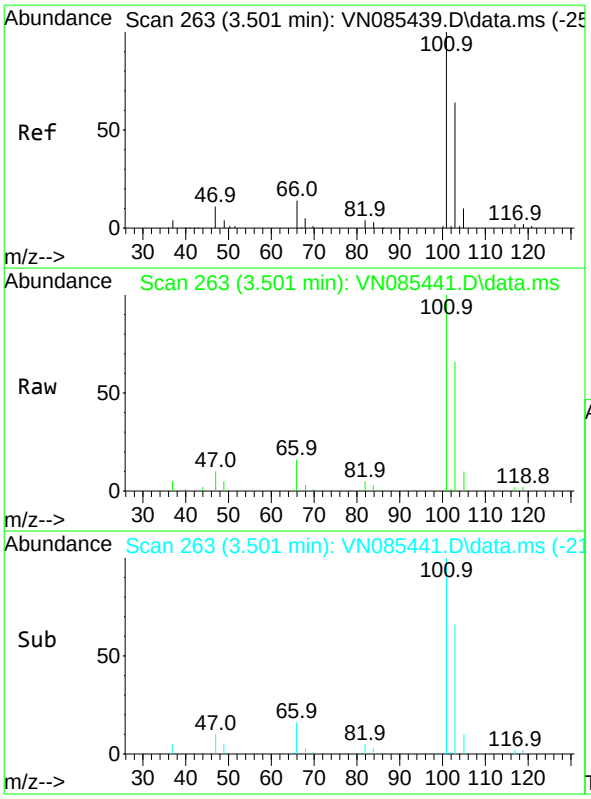




#6
Chloroethane
Concen: 9.175 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 64 Resp: 16791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.1 | 24.6 | 36.8 |






#7
Trichlorofluoromethane
Concen: 9.731 ug/l
RT: 3.501 min Scan# 26
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

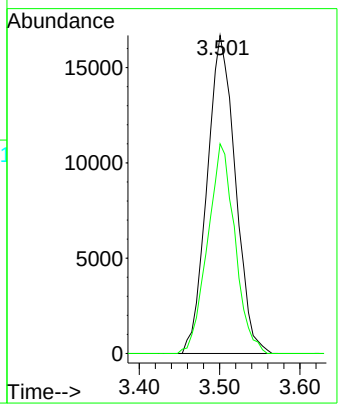
Tgt Ion:101 Resp: 40755

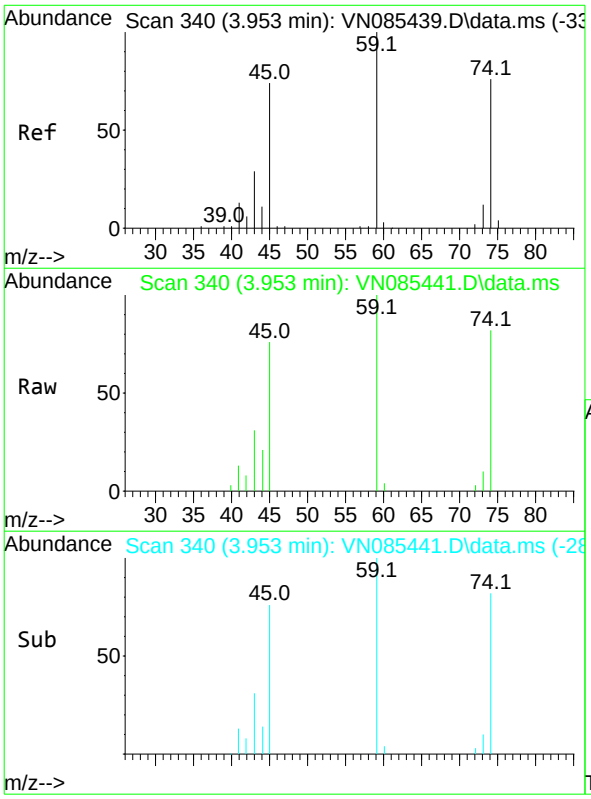
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.9 | 51.4 | 77.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

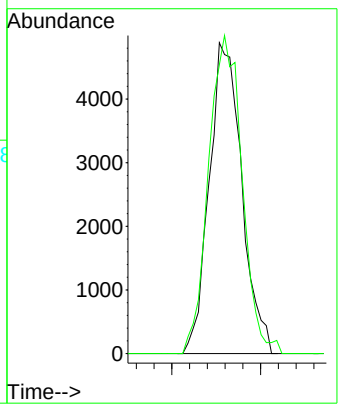


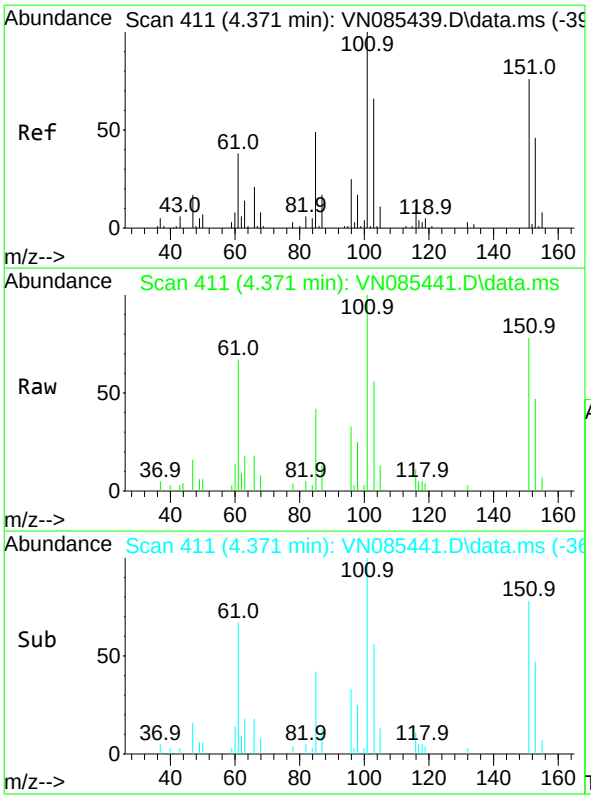




#8
Diethyl Ether
Concen: 8.581 ug/l
RT: 3.953 min Scan# 340
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 74 Resp: 12415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 105.3 | 49.7 | 149.1 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.742 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

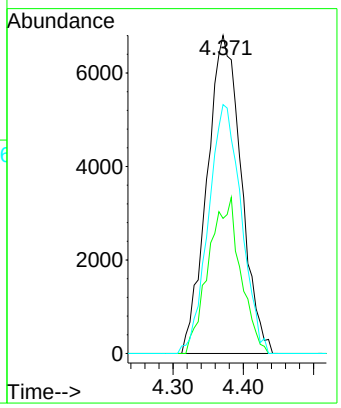
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

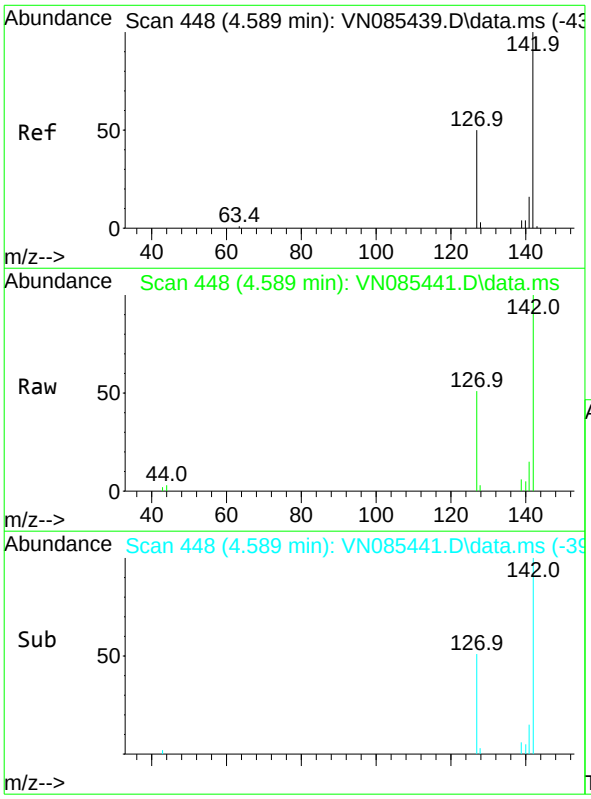
Tgt Ion:101 Resp: 22982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.8 | 37.8 | 56.8 |
| 151 | 75.2 | 58.8 | 88.2 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

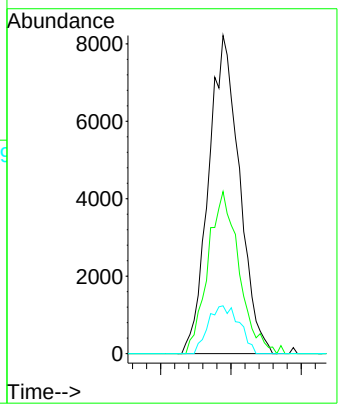


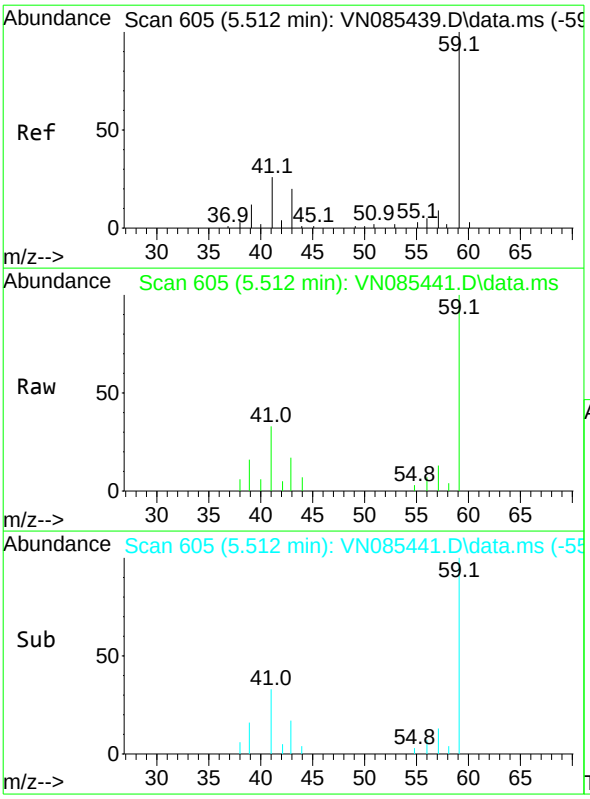




#10
Methyl Iodide
Concen: 9.286 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:142 Resp: 25085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 50.9 | 40.3 | 60.5 |
| 141 | 15.0 | 12.8 | 19.2 |






#11
Tert butyl alcohol
Concen: 49.608 ug/l
RT: 5.512 min Scan# 60
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 59 Resp: 17962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.9 | 8.6 | 13.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

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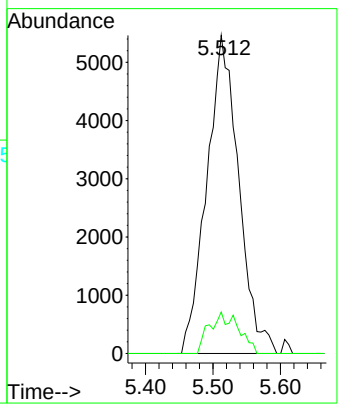
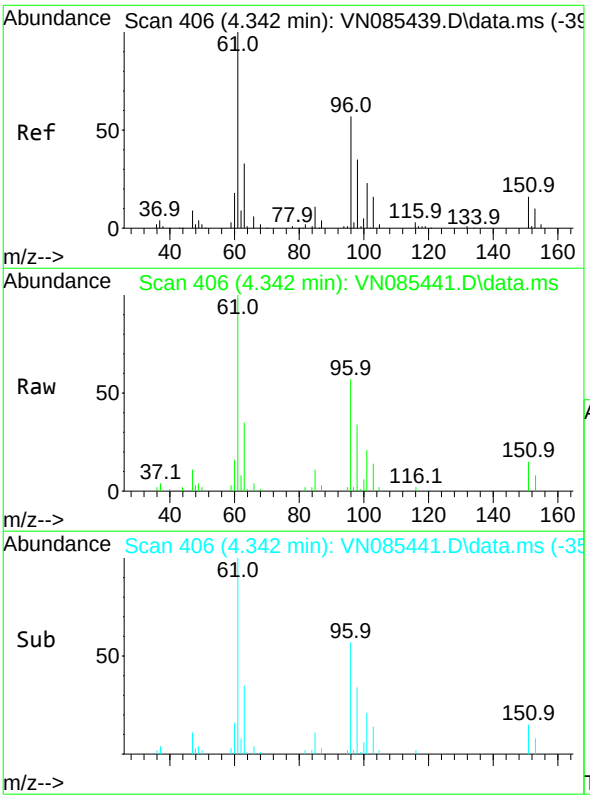
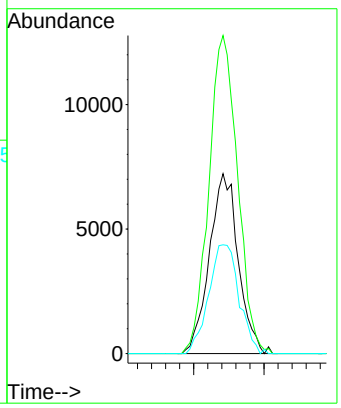


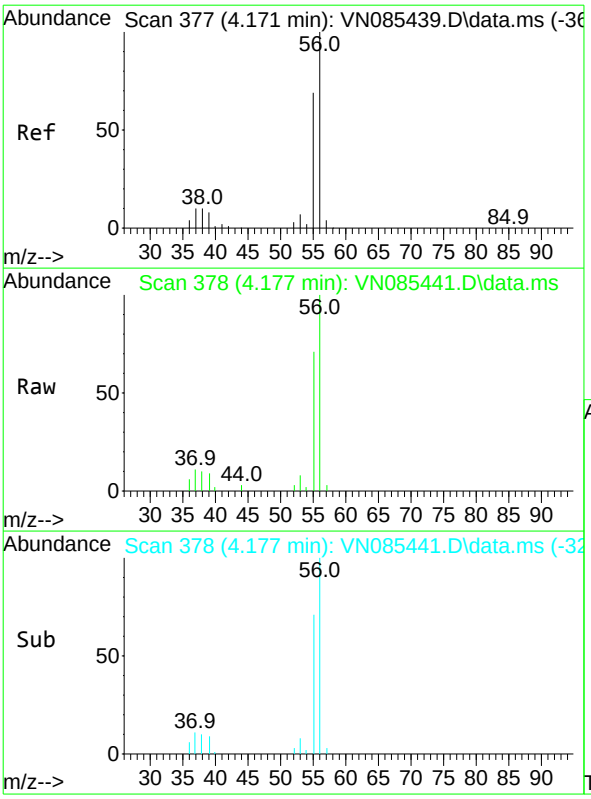




#12
1,1-Dichloroethene
Concen: 9.806 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 96 Resp: 20615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 176.8 | 141.0 | 211.4 |
| 98 | 60.5 | 49.0 | 73.6 |






#13
Acrolein
Concen: 51.729 ug/l
RT: 4.177 min Scan# 37
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 56 Resp: 25568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.9 | 56.3 | 84.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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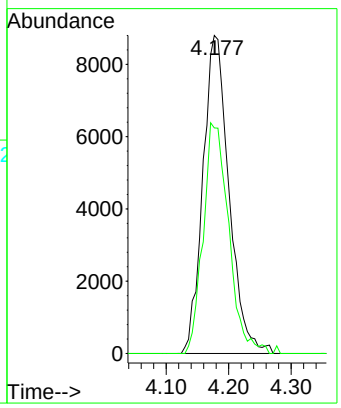
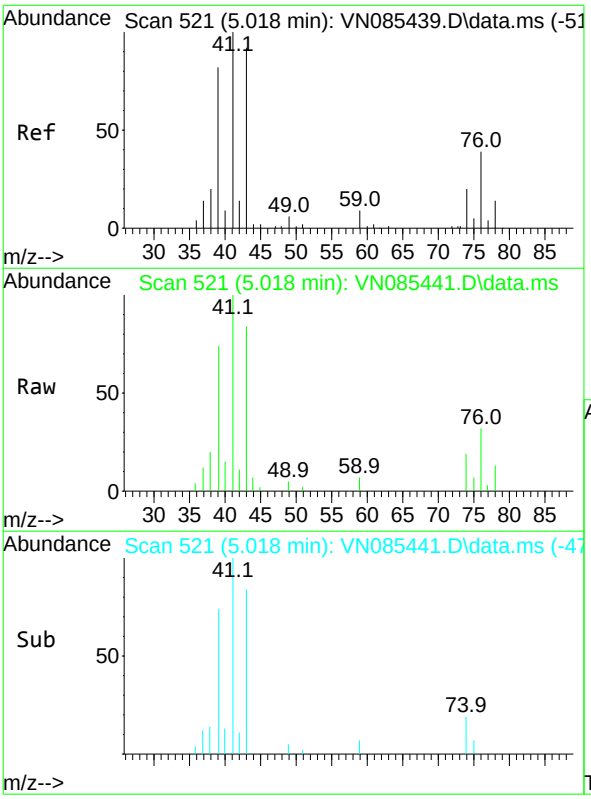
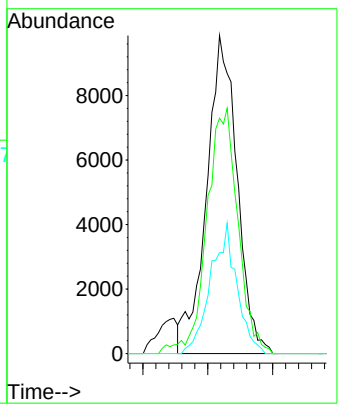


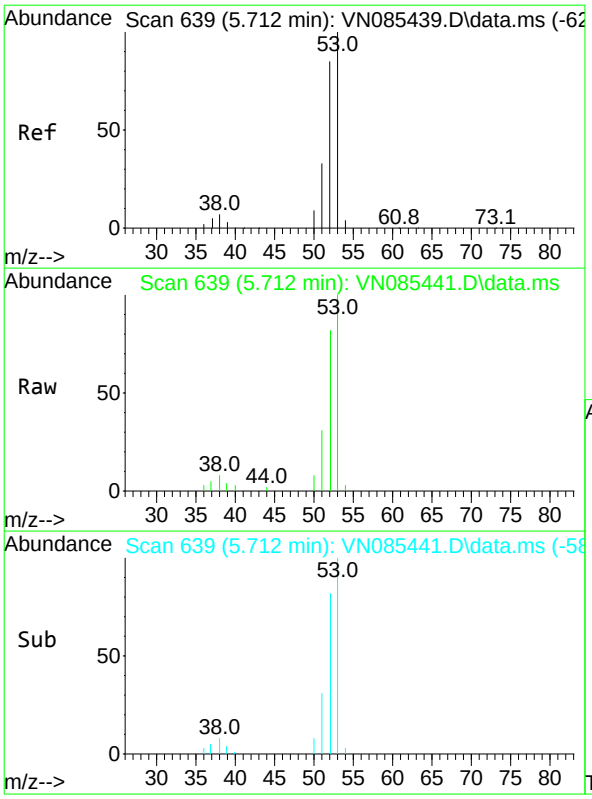




#14
Allyl chloride
Concen: 9.451 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 41 Resp: 32240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 78.3 | 64.4 | 96.6 |
| 76 | 35.1 | 30.5 | 45.7 |






#15
Acrylonitrile
Concen: 46.918 ug/l
RT: 5.712 min Scan# 63
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

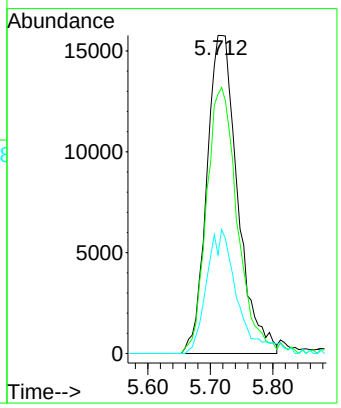
Tgt Ion: 53 Resp: 53959

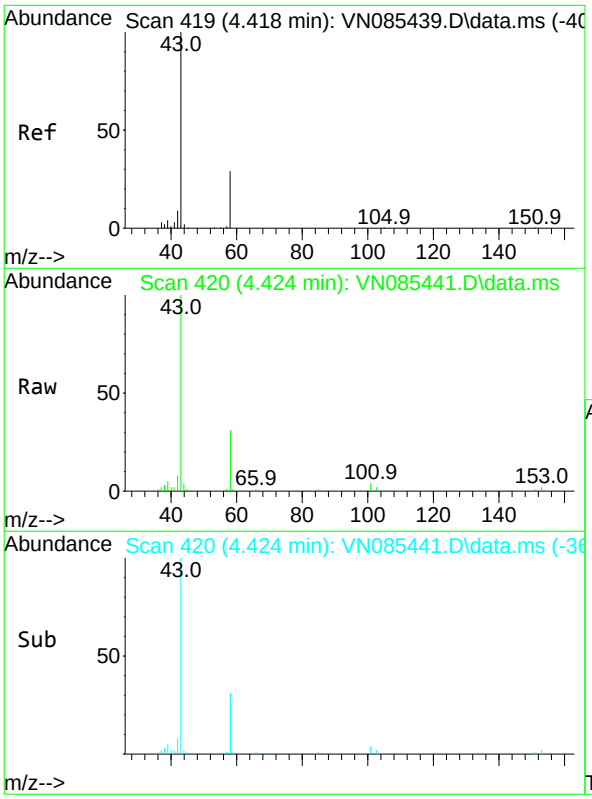
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.3 | 65.5 | 98.3 |
| 51 | 38.8 | 29.8 | 44.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

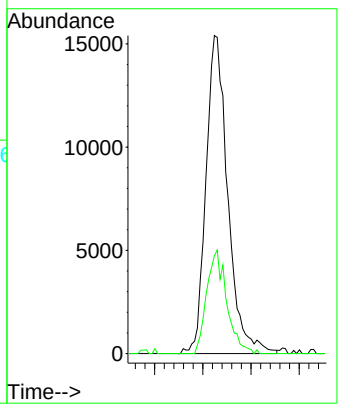


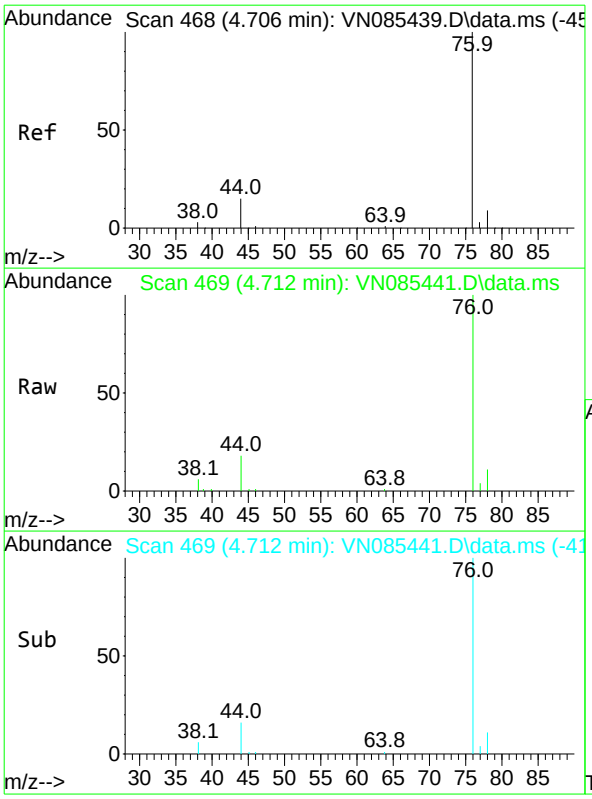




#16
Acetone
Concen: 47.446 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 48475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.8 | 23.8 | 35.6 |






#17
Carbon Disulfide
Concen: 9.300 ug/l
RT: 4.712 min Scan# 46
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

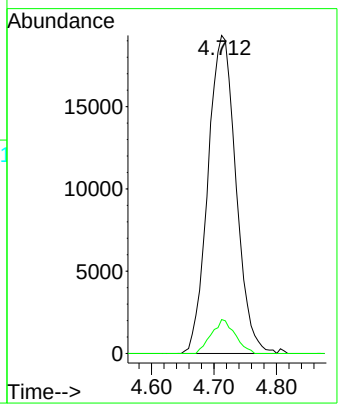
Tgt Ion: 76 Resp: 60201

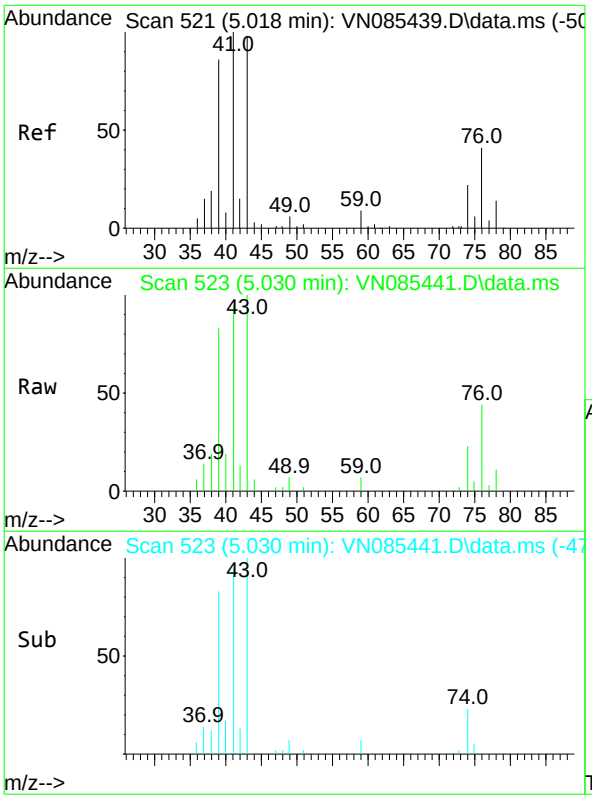
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.7 | 6.9 | 10.3# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

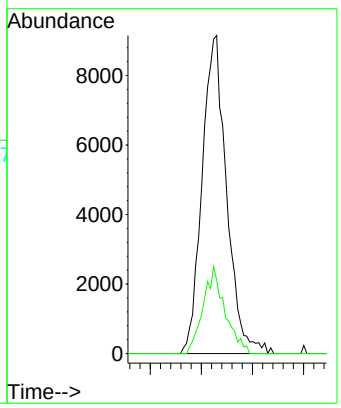


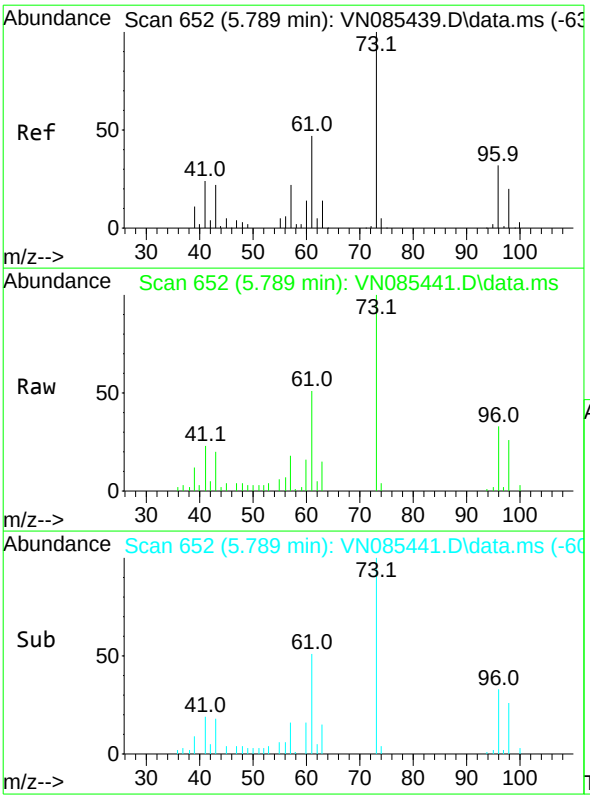




#18
Methyl Acetate
Concen: 9.817 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 30500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.3 | 18.6 | 28.0 |






#19
Methyl tert-butyl Ether
Concen: 9.552 ug/l
RT: 5.789 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

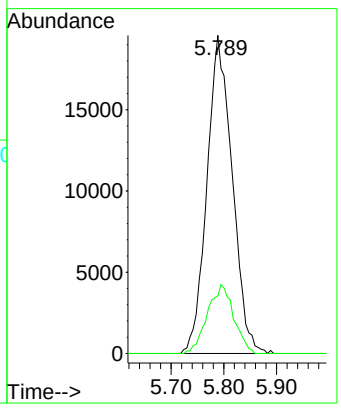
Tgt Ion: 73 Resp: 65207

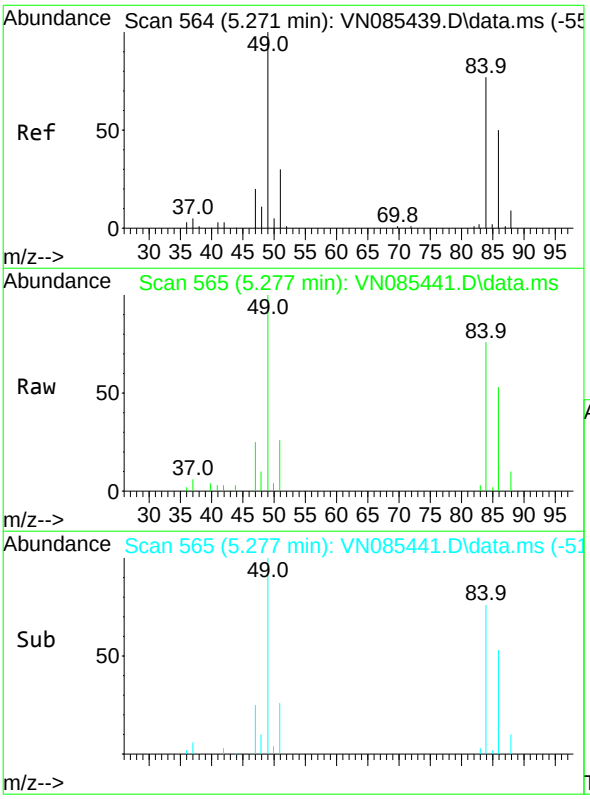
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 18.1 | 17.8 | 26.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

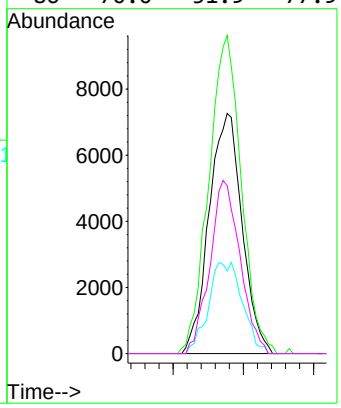


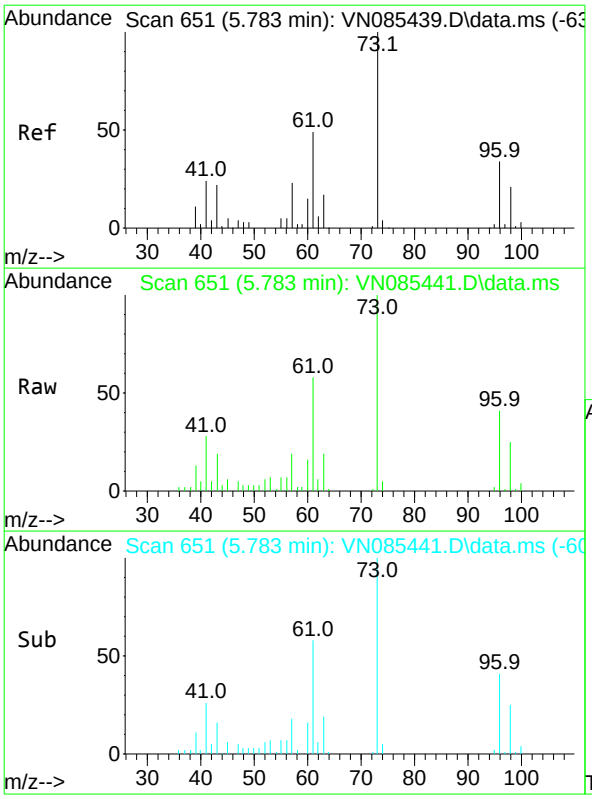




#20
Methylene Chloride
Concen: 9.379 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 84 Resp: 23723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 132.4 | 104.1 | 156.1 |
| 51 | 34.4 | 31.0 | 46.4 |
| 86 | 70.0 | 51.9 | 77.9 |






#21
trans-1,2-Dichloroethene
Concen: 9.403 ug/l
RT: 5.783 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

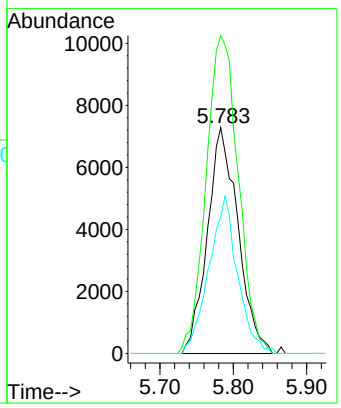
Tgt Ion: 96 Resp: 21127

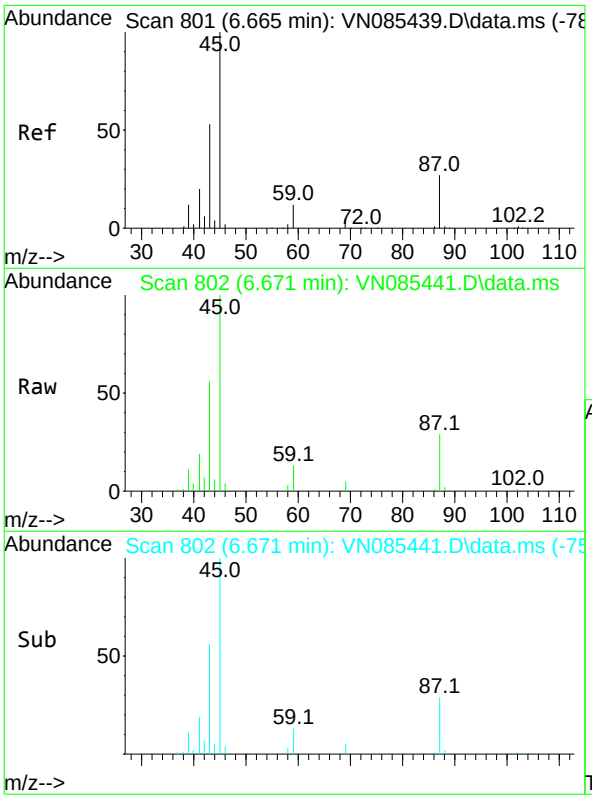
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 140.8 | 115.7 | 173.5 |
| 98 | 60.5 | 49.8 | 74.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

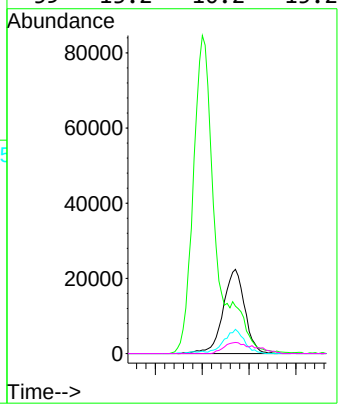


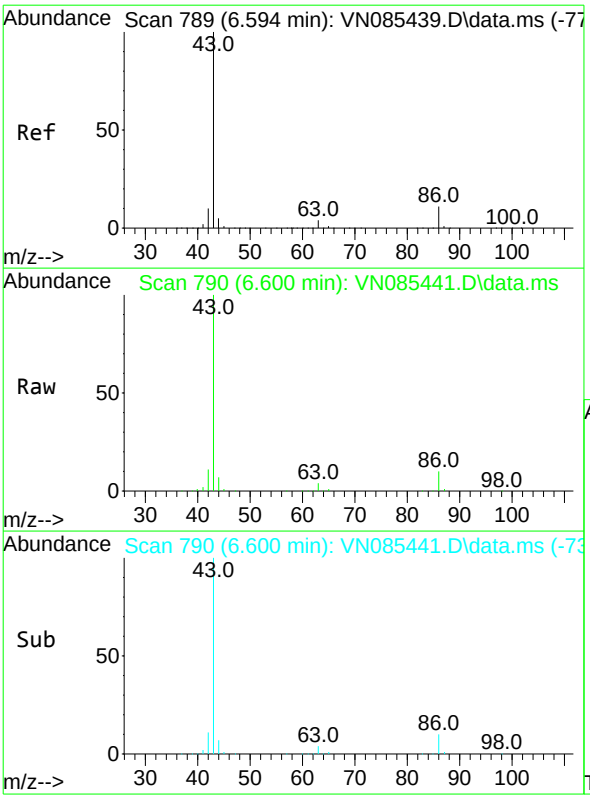




#22
Diisopropyl ether
Concen: 9.490 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 45 Resp: 71857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 53.2 | 45.0 | 67.6 |
| 87 | 28.8 | 21.8 | 32.8 |
| 59 | 13.2 | 10.2 | 15.2 |






#23
Vinyl Acetate
Concen: 47.125 ug/l
RT: 6.600 min Scan# 79
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

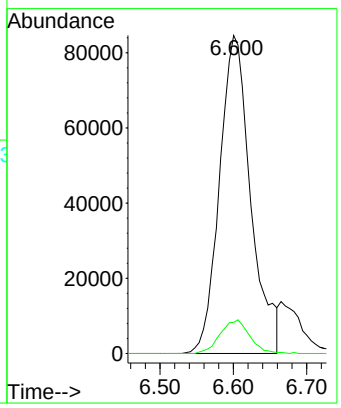
Tgt Ion: 43 Resp: 250575

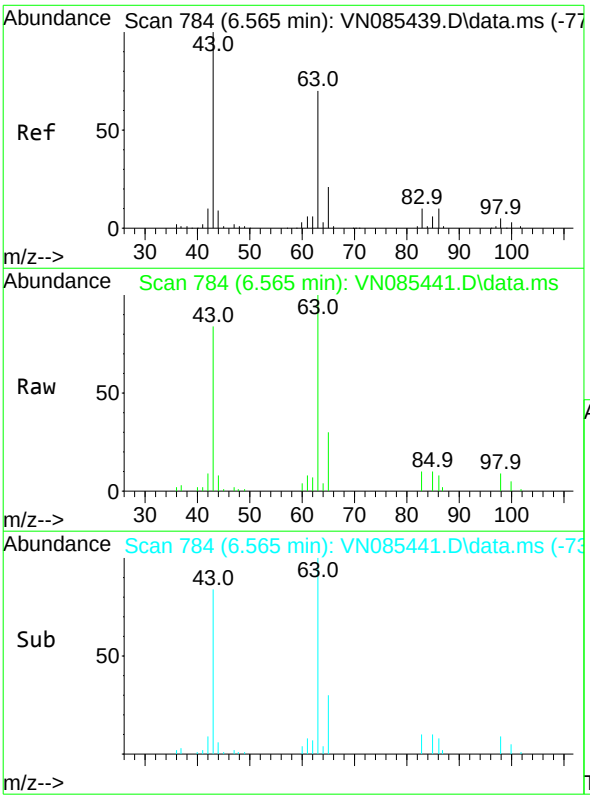
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.8 | 8.4 | 12.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

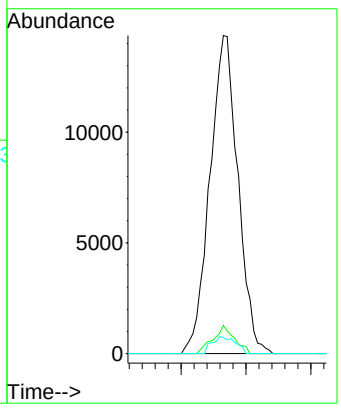


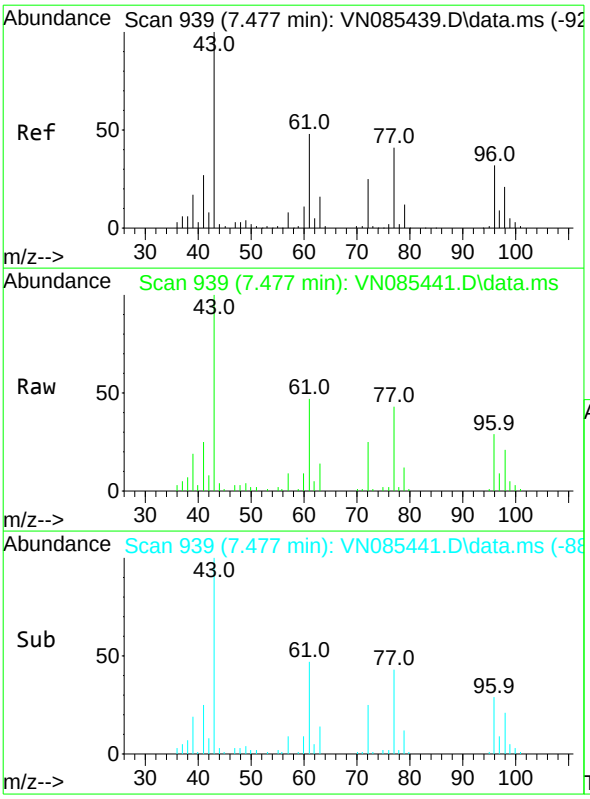




#24
1,1-Dichloroethane
Concen: 9.335 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 63 Resp: 43099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.8 | 3.3 | 9.8 |
| 100 | 5.0 | 2.0 | 6.0 |






#25
2-Butanone
Concen: 47.350 ug/l
RT: 7.477 min Scan# 93
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

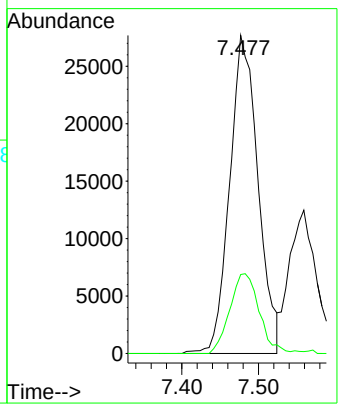
Tgt Ion: 43 Resp: 71191

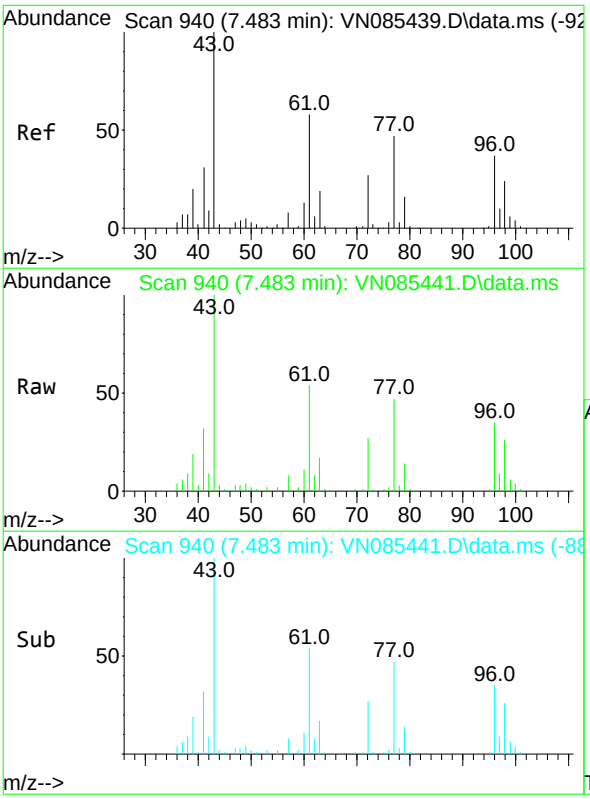
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.8 | 20.2 | 30.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

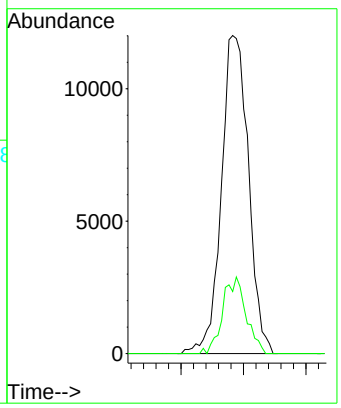


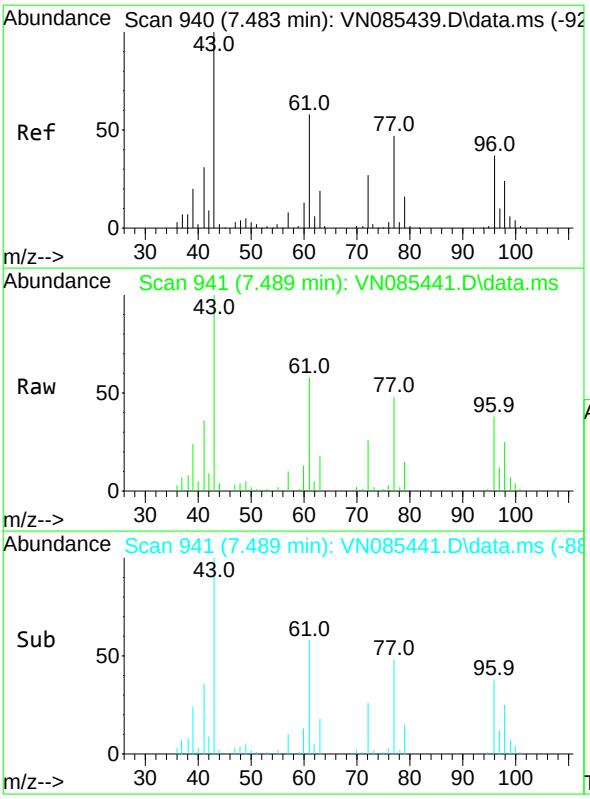




#26
2,2-Dichloropropane
Concen: 9.672 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 77 Resp: 36105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 20.8 | 10.7 | 32.1 |






#27
cis-1,2-Dichloroethene
Concen: 9.466 ug/l
RT: 7.489 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 96 Resp: 25049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 151.8 | 0.0 | 311.8 |
| 98 | 64.7 | 0.0 | 126.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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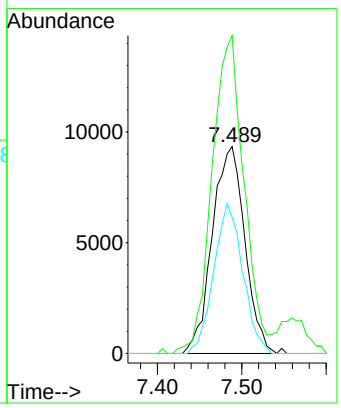
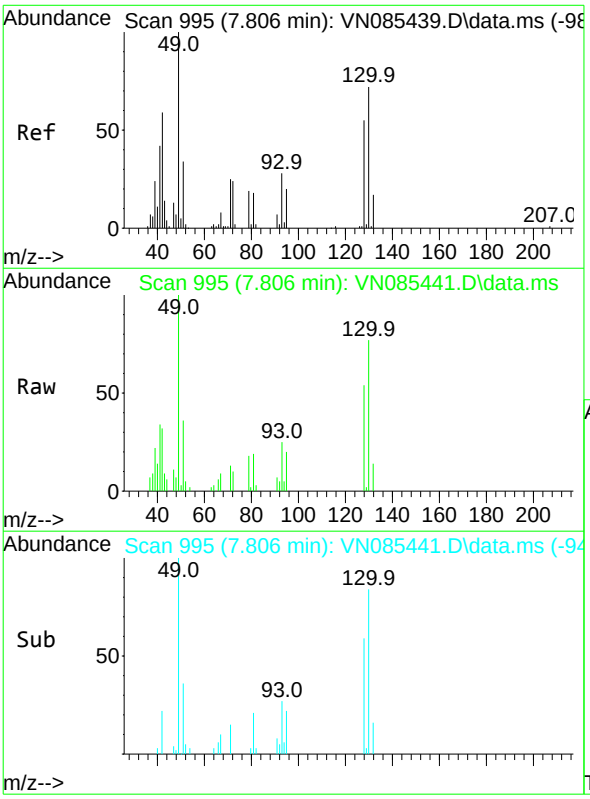
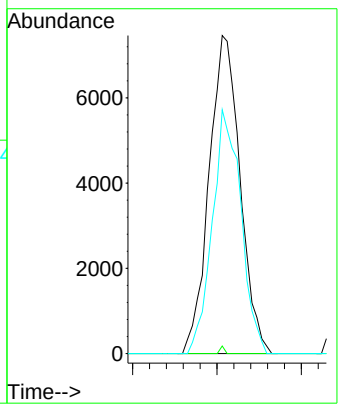


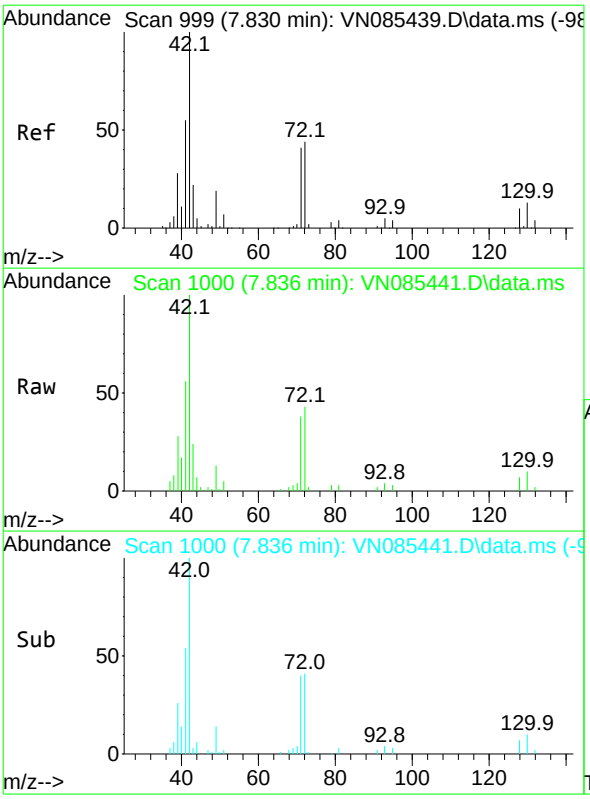




#28
Bromochloromethane
Concen: 8.863 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 49 Resp: 19037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.3 | 0.0 | 4.4 |
| 130 | 70.8 | 55.0 | 82.4 |






#29
Tetrahydrofuran
Concen: 47.881 ug/l
RT: 7.836 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

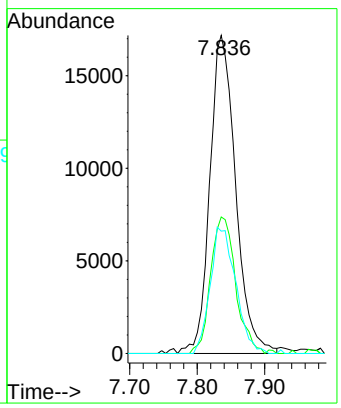
Tgt Ion: 42 Resp: 45641

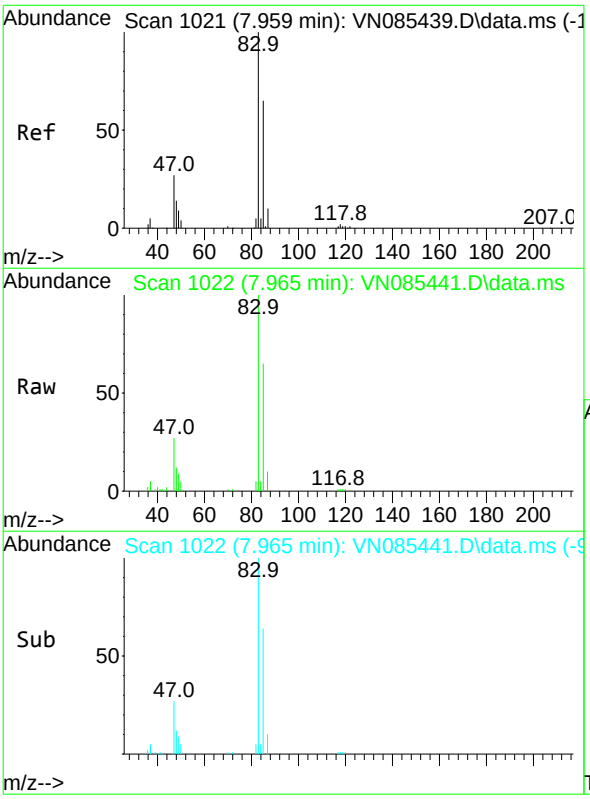
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.6 | 34.2 | 51.2 |
| 71 | 39.2 | 32.5 | 48.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

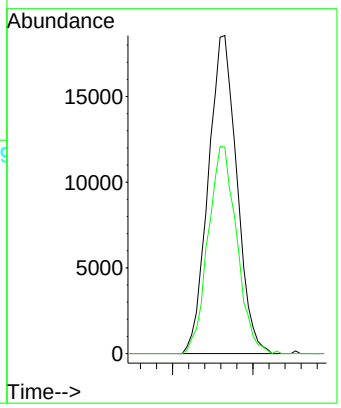


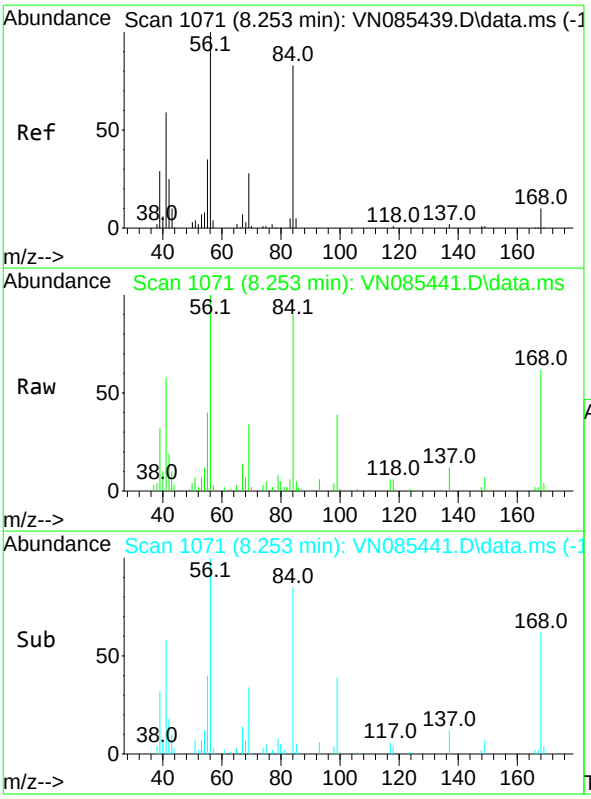




#30
Chloroform
Concen: 9.596 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 83 Resp: 45792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.9 | 51.8 | 77.6 |






#31
Cyclohexane
Concen: 10.020 ug/l
RT: 8.253 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

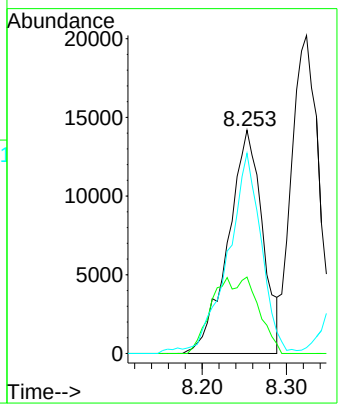
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

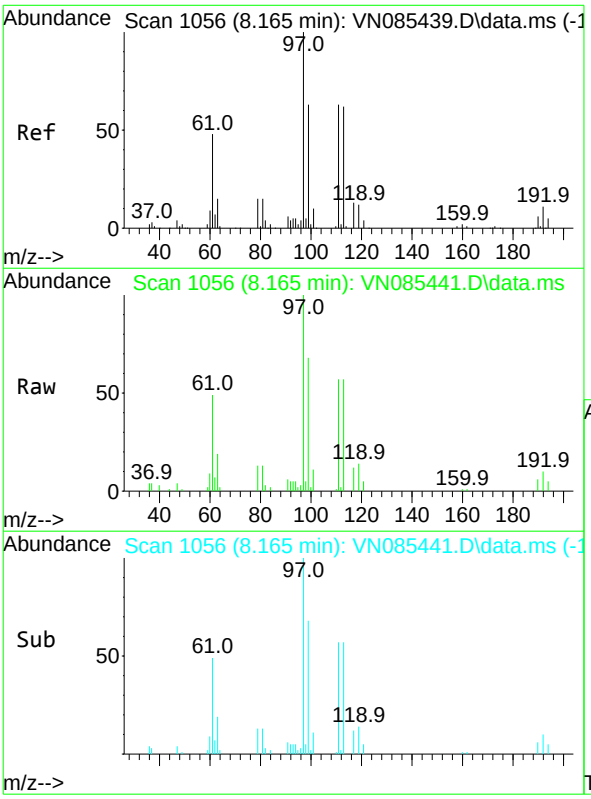
Tgt Ion: 56 Resp: 40211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.2 | 22.2 | 33.4# |
| 84 | 87.2 | 66.4 | 99.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

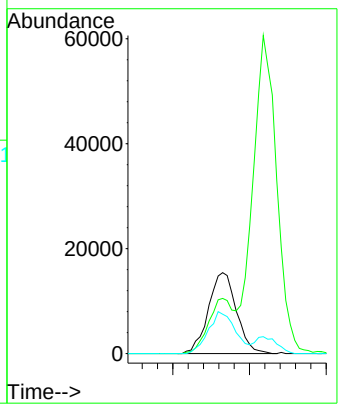


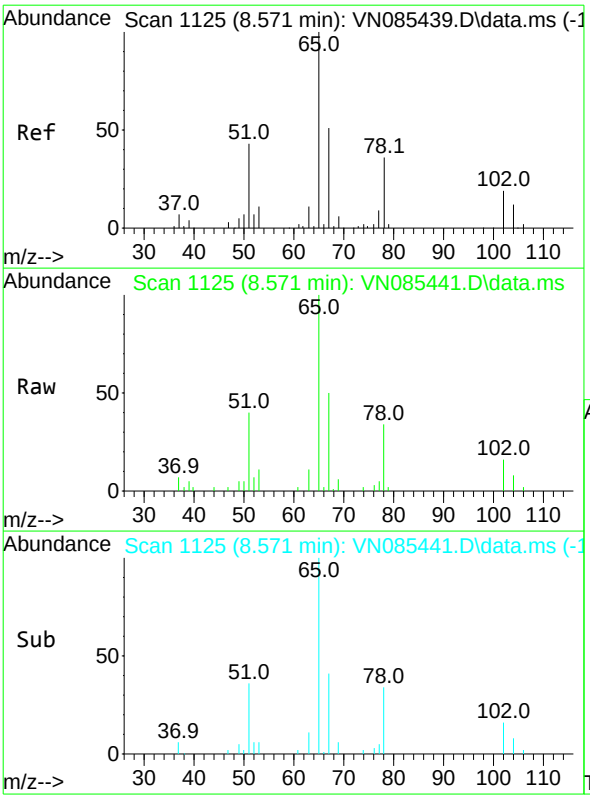




#32
1,1,1-Trichloroethane
Concen: 9.358 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 97 Resp: 39170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.6 | 49.8 | 74.6 |
| 61 | 50.2 | 41.4 | 62.2 |






#33
1,2-Dichloroethane-d4
Concen: 9.442 ug/l
RT: 8.571 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

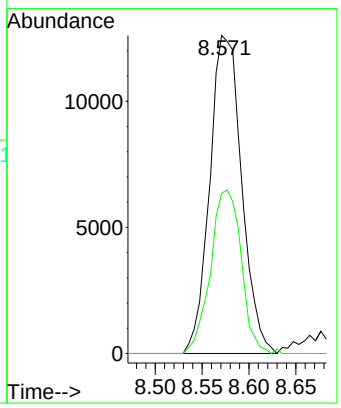
Tgt Ion: 65 Resp: 29856

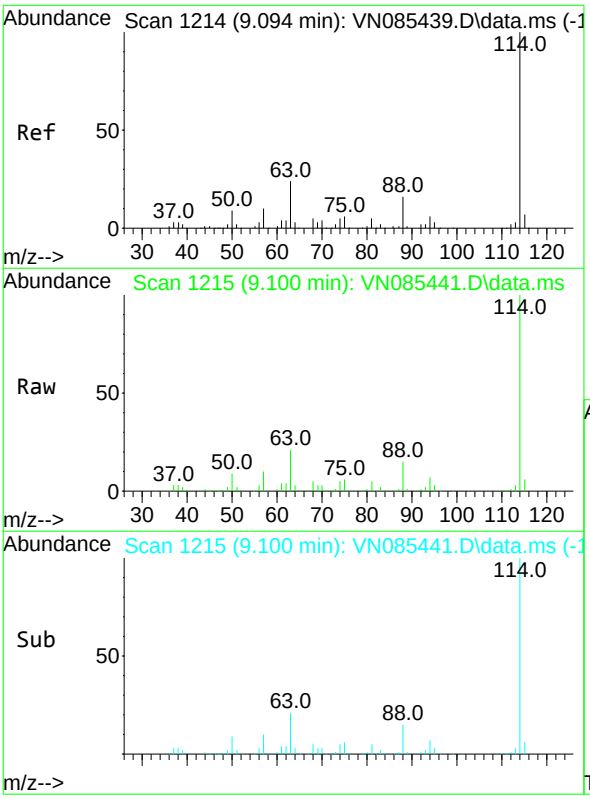
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.5 | 0.0 | 101.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

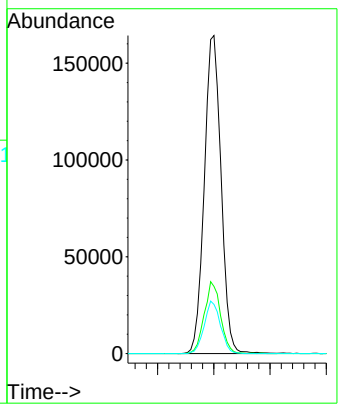


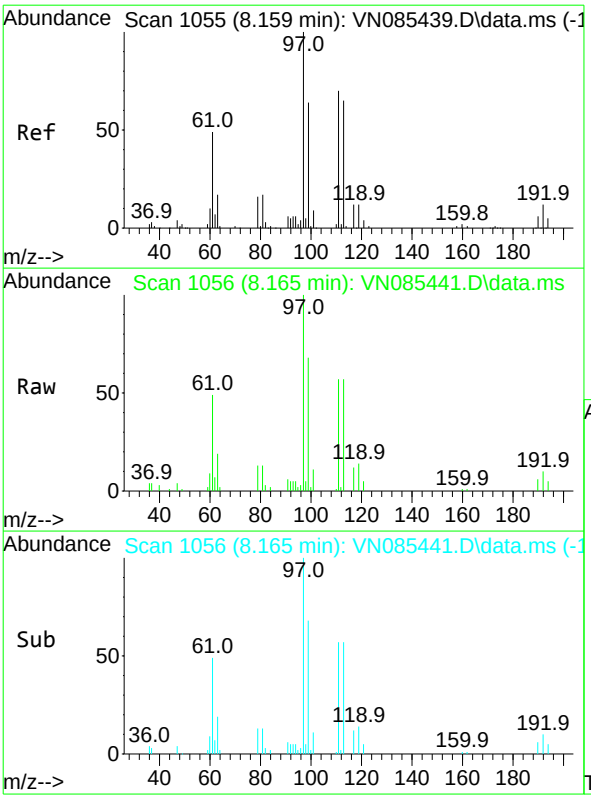




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:114 Resp: 340403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.1 | 0.0 | 47.6 |
| 88 | 15.5 | 0.0 | 32.6 |






#35
Dibromofluoromethane
Concen: 8.939 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:113 Resp: 21110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.4 | 82.7 | 124.1 |
| 192 | 16.4 | 14.3 | 21.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
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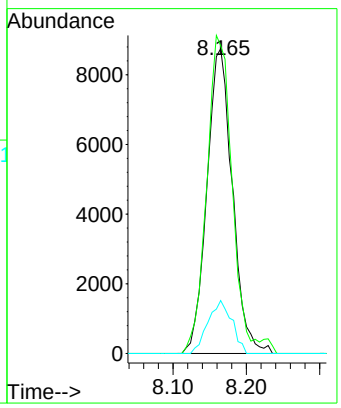
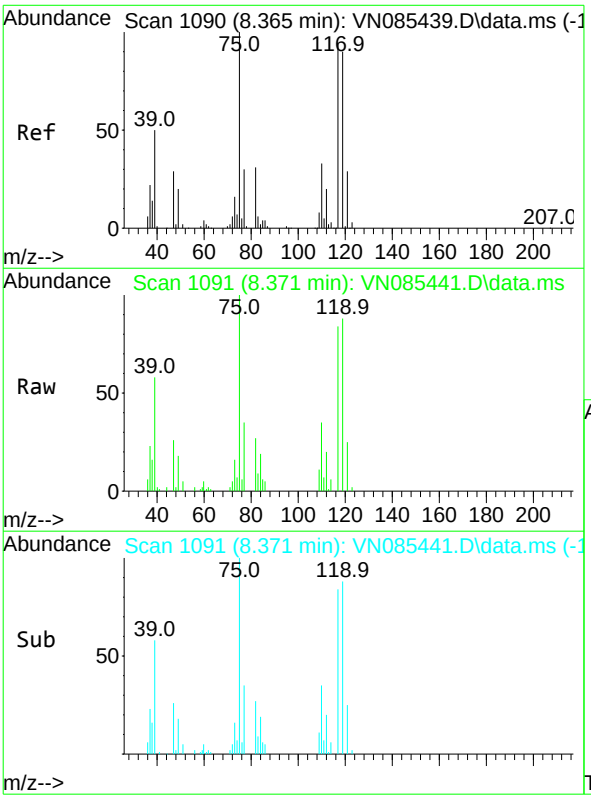
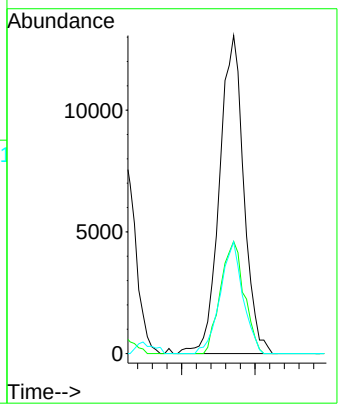


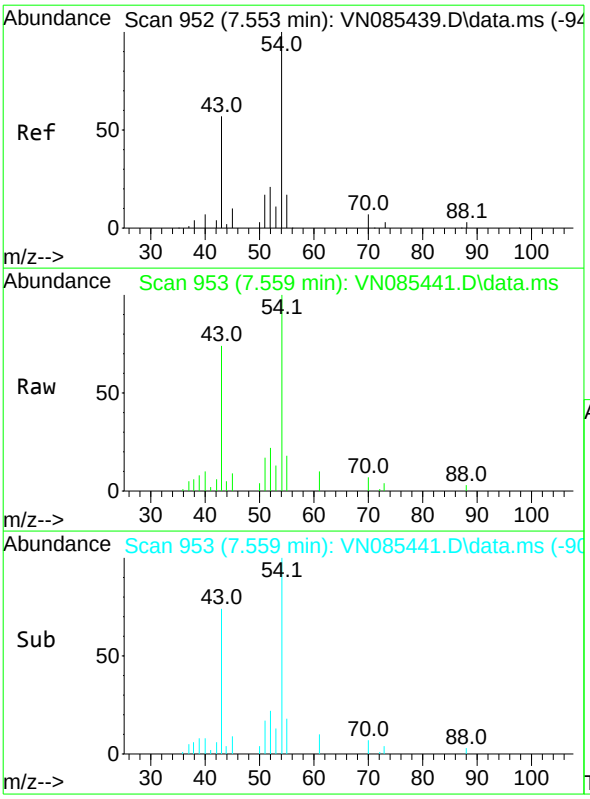




#36
1,1-Dichloropropene
Concen: 9.056 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 30015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.3 | 16.5 | 49.5 |
| 77 | 32.9 | 24.4 | 36.6 |






#37
Ethyl Acetate
Concen: 9.195 ug/l
RT: 7.559 min Scan# 95
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 30760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 12.2 | 10.9 | 16.3 |
| 70 | 8.4 | 7.5 | 11.3 |

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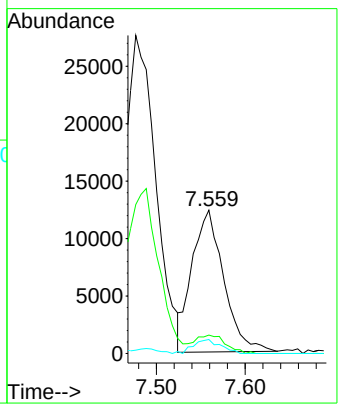
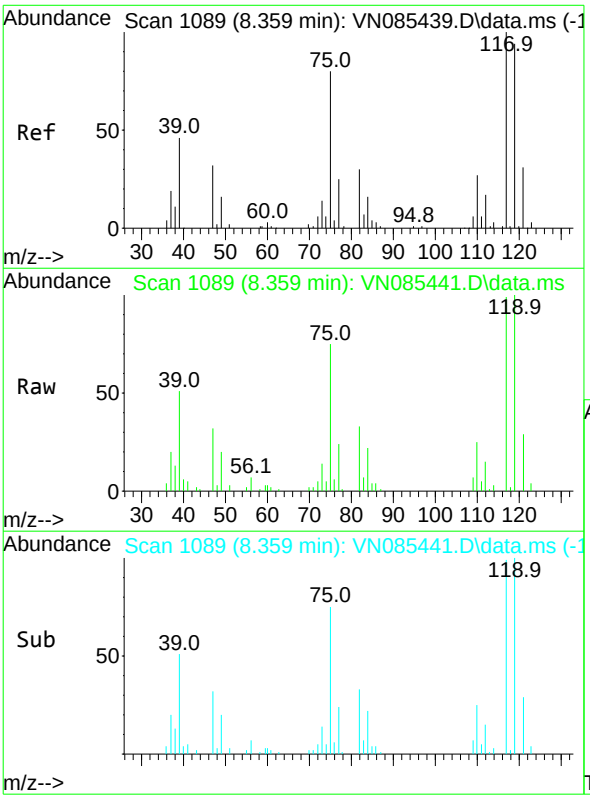
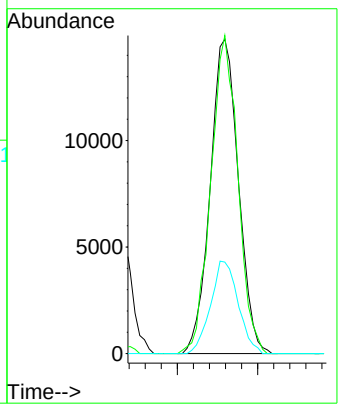


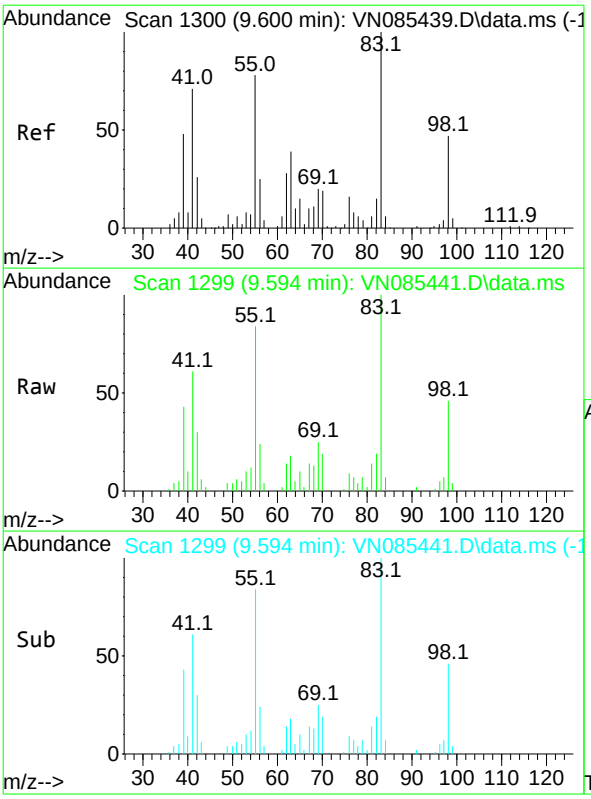




#38
Carbon Tetrachloride
Concen: 9.492 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:117 Resp: 36015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 101.2 | 75.4 | 113.2 |
| 121 | 29.1 | 24.6 | 37.0 |






#39
Methylcyclohexane
Concen: 8.900 ug/l
RT: 9.594 min Scan# 12
Delta R.T. -0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 83 Resp: 27721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 83.8 | 62.6 | 94.0 |
| 98 | 45.8 | 37.7 | 56.5 |

**Instrument :**
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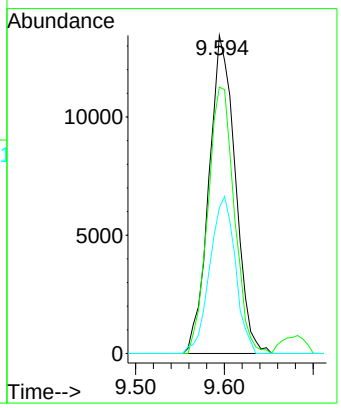
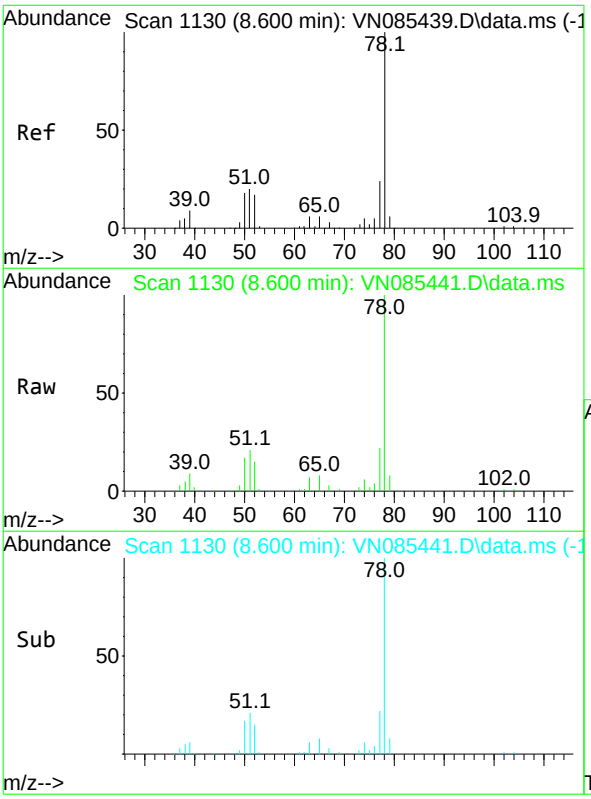
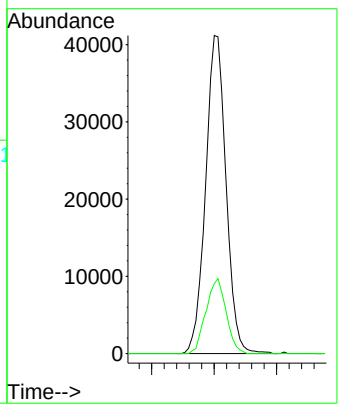


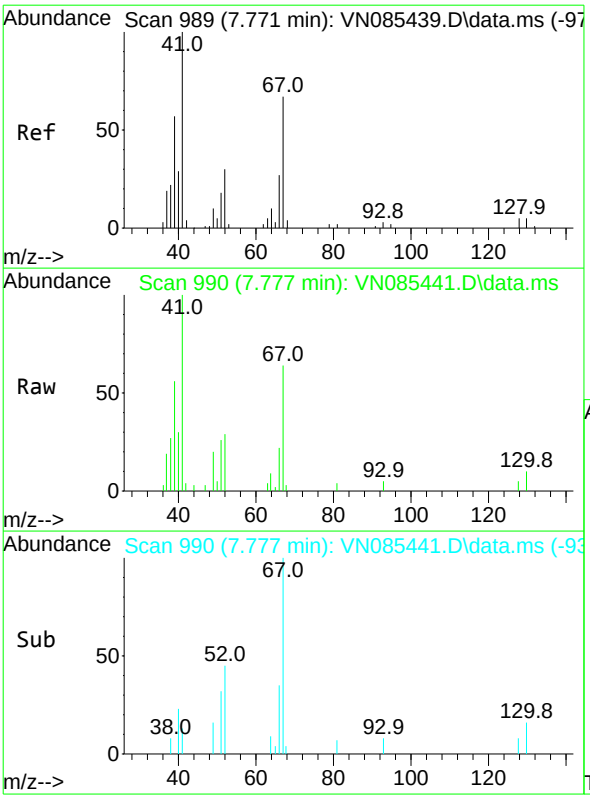




#40
Benzene
Concen: 9.407 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 78 Resp: 93680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.0 | 19.0 | 28.6 |

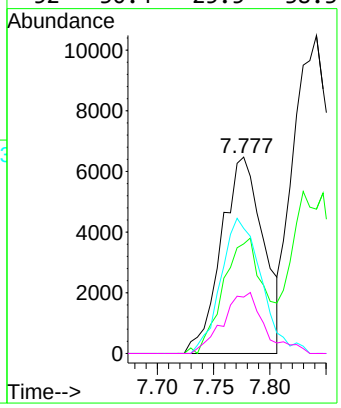





#41
Methacrylonitrile
Concen: 9.686 ug/l
RT: 7.777 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 41 Resp: 16859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.3 | 46.0 | 69.0 |
| 67 | 66.2 | 57.4 | 86.2 |
| 52 | 30.4 | 25.5 | 38.3 |

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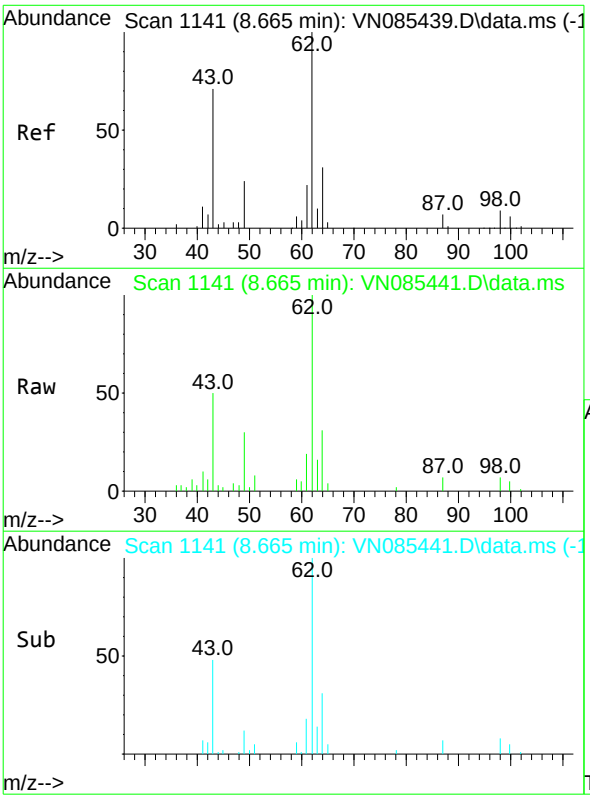
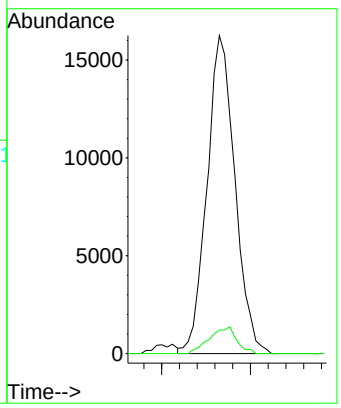
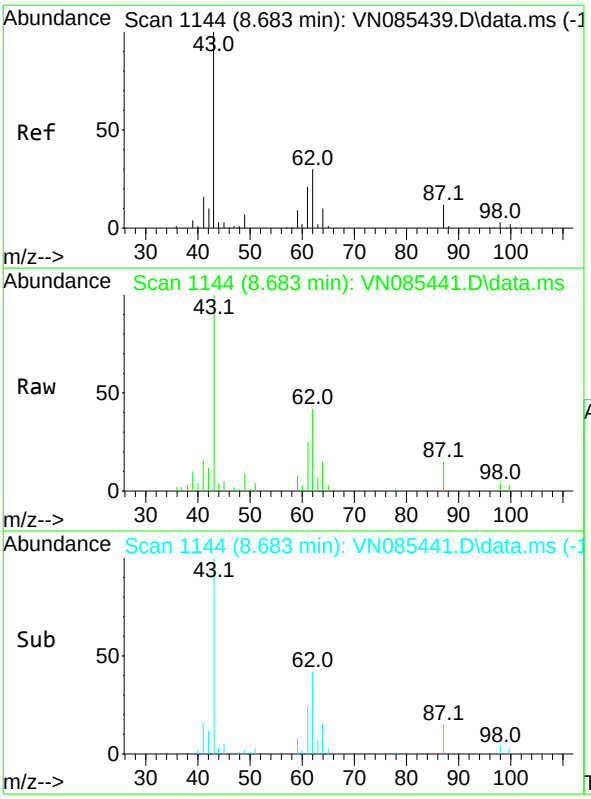



#42
1,2-Dichloroethane
Concen: 9.483 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 62 Resp: 35569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.2 | 0.0 | 17.0 |






#43
Isopropyl Acetate
Concen: 9.127 ug/l
RT: 8.683 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 48926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 26.2 | 20.7 | 31.1 |
| 87 | 12.8 | 9.8 | 14.8 |

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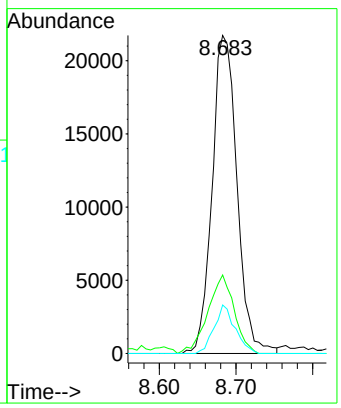
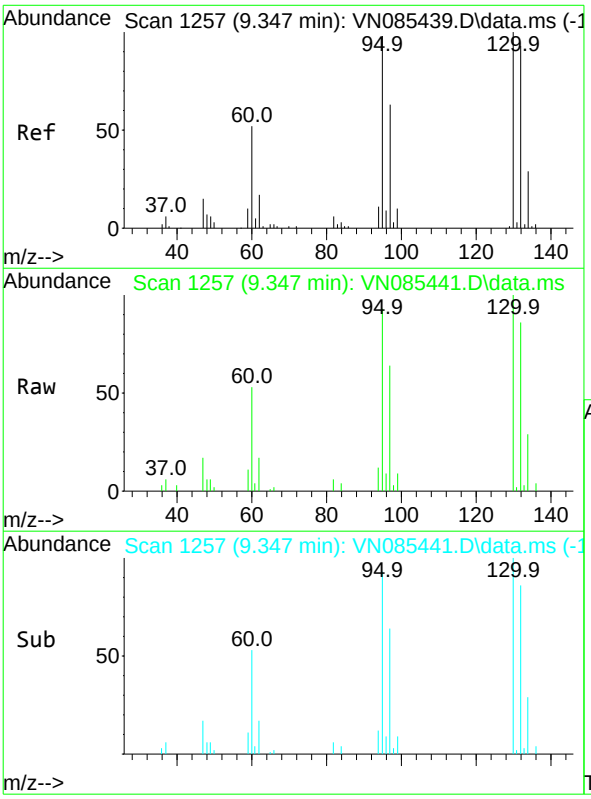
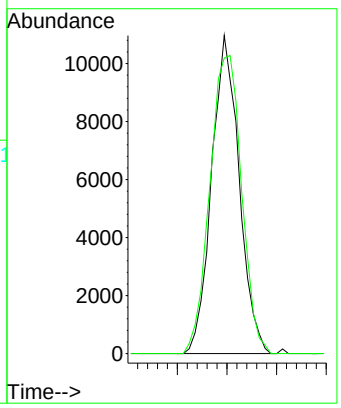


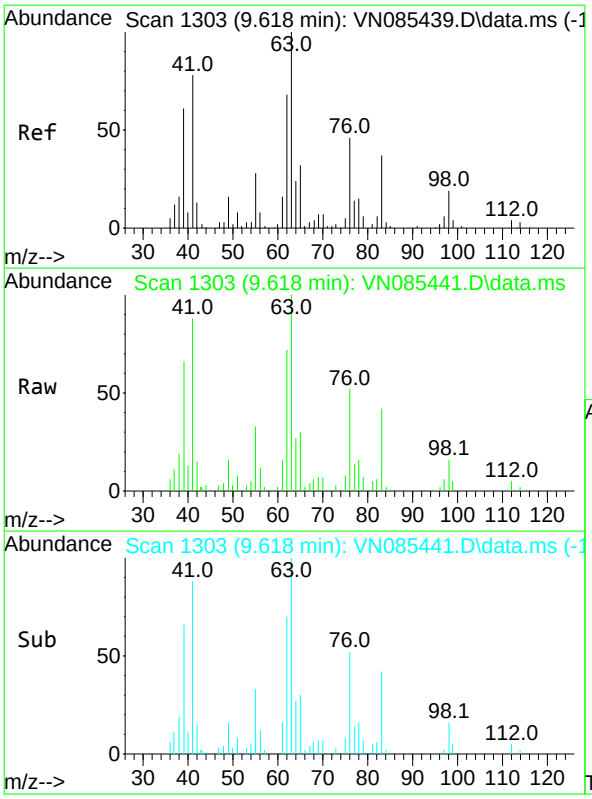




#44
Trichloroethene
Concen: 9.108 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:130 Resp: 21113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 92.9 | 0.0 | 195.8 |






#45
1,2-Dichloropropane
Concen: 8.942 ug/l
RT: 9.618 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 63 Resp: 22747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.4 | 25.6 | 38.4 |

**Instrument :**
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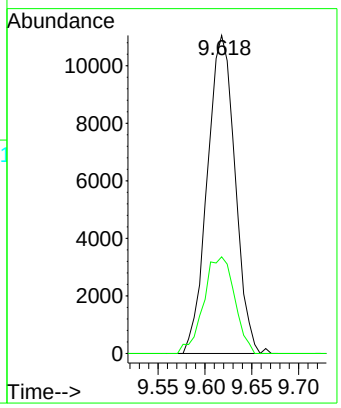
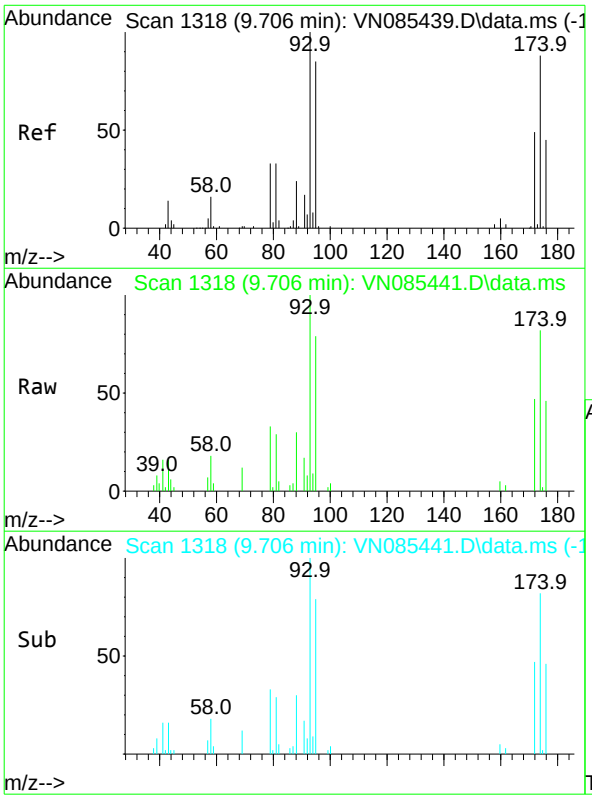
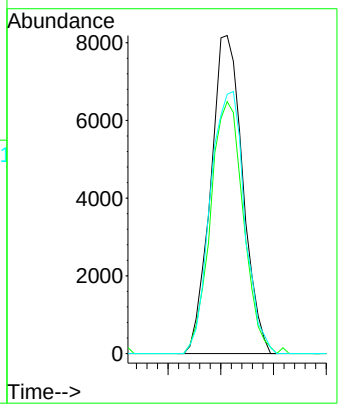


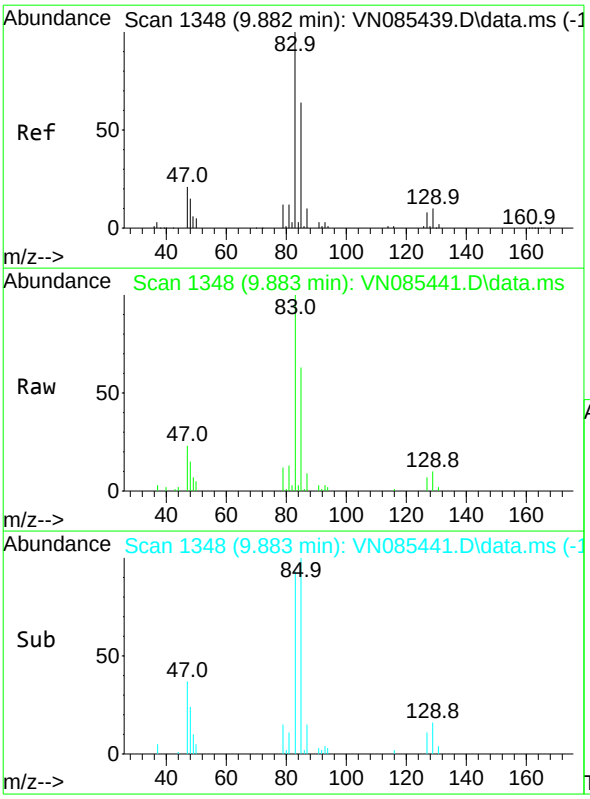




#46
Dibromomethane
Concen: 9.404 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 93 Resp: 17260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.5 | 64.7 | 97.1 |
| 174 | 87.8 | 69.0 | 103.4 |






#47
Bromodichloromethane
Concen: 9.365 ug/l
RT: 9.883 min Scan# 13
Delta R.T. 0.001 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 83 Resp: 35020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.6 | 51.2 | 76.8 |
| 127 | 6.9 | 6.5 | 9.7 |

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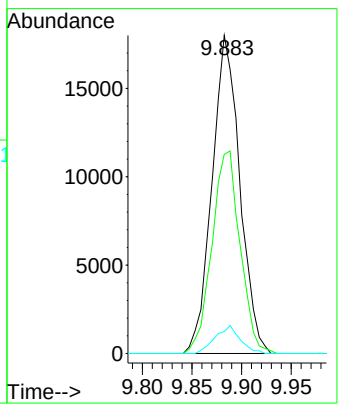
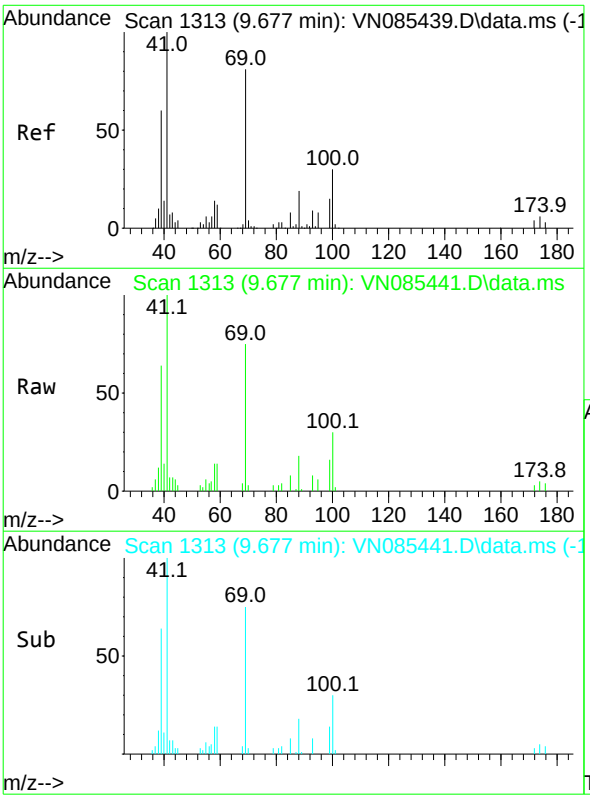
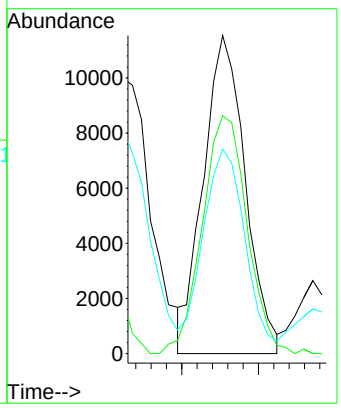


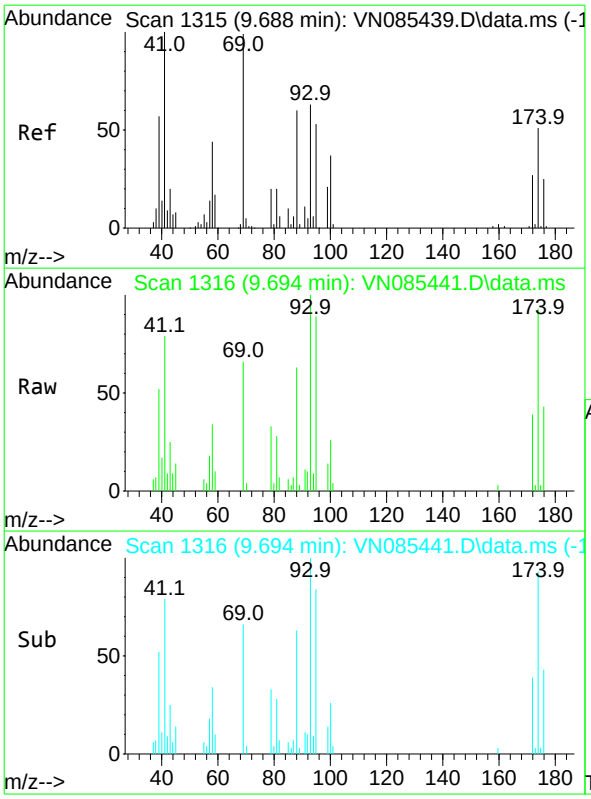




#48
Methyl methacrylate
Concen: 9.067 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 41 Resp: 21873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 80.0 | 64.7 | 97.1 |
| 39 | 65.2 | 49.0 | 73.6 |






#49
1,4-Dioxane
Concen: 190.382 ug/l
RT: 9.694 min Scan# 13
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

Tgt Ion: 88 Resp: 7734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.2 | 26.6 | 39.8 |
| 58 | 73.3 | 59.5 | 89.3 |

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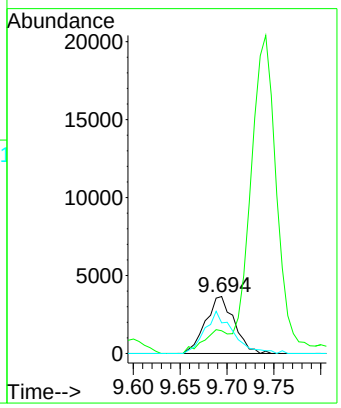
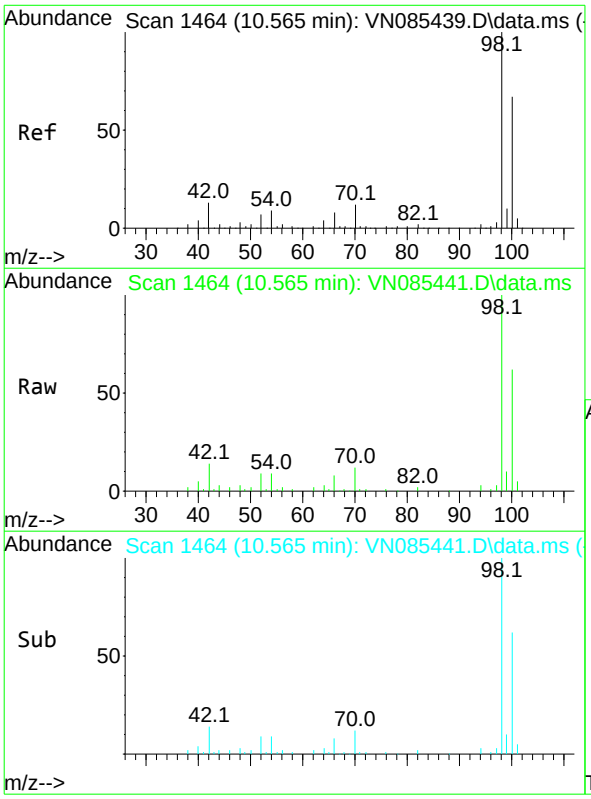
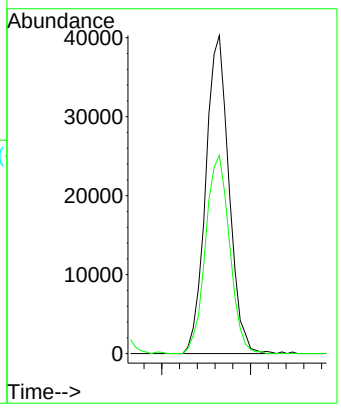


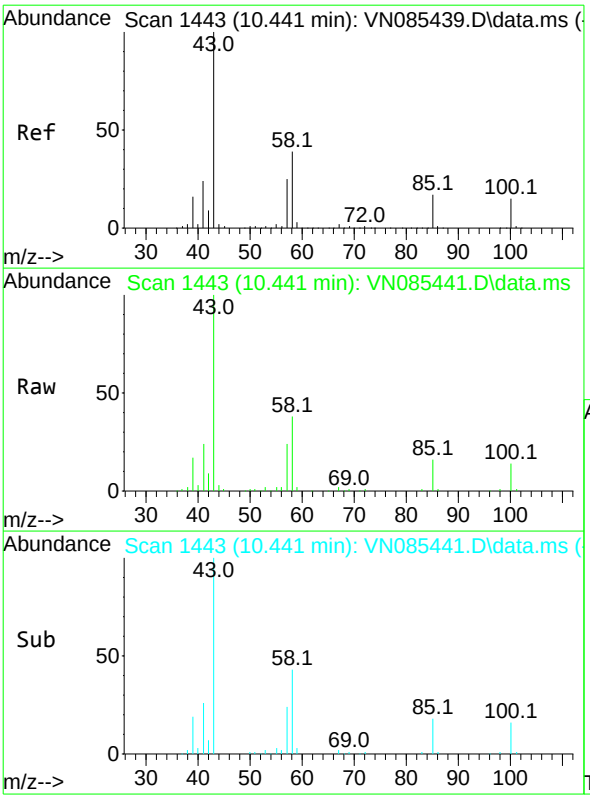




#50
Toluene-d8
Concen: 8.727 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 98 Resp: 73223

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






#51
4-Methyl-2-Pentanone
Concen: 47.254 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 146990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.1 | 30.5 | 45.7 |

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

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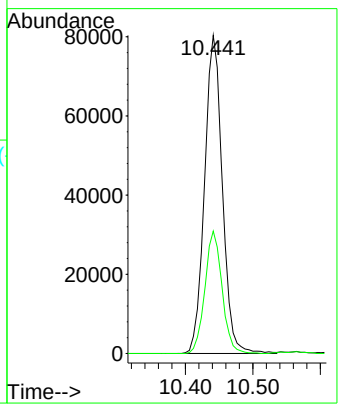
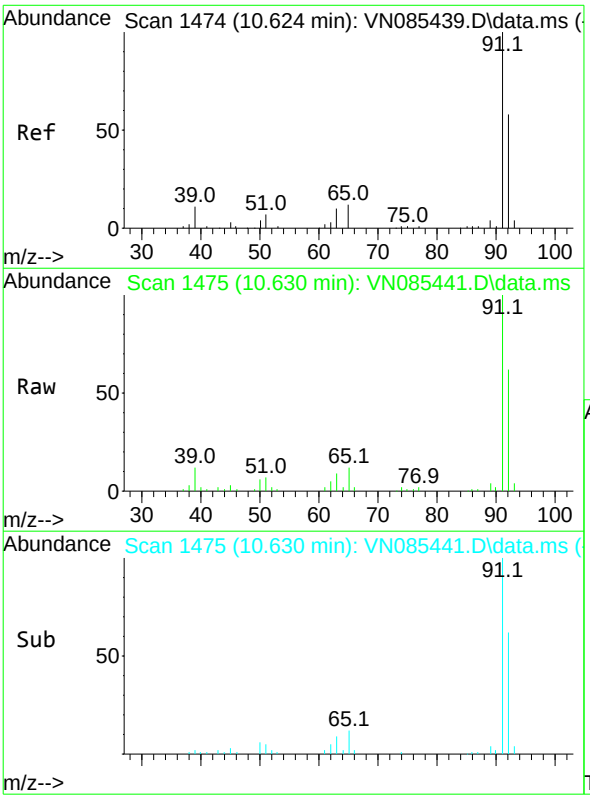
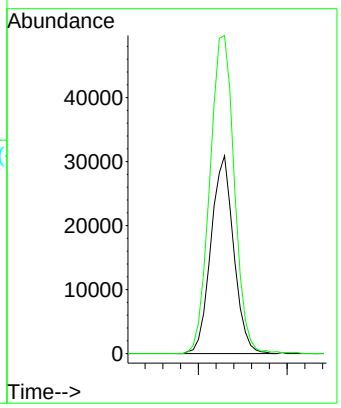


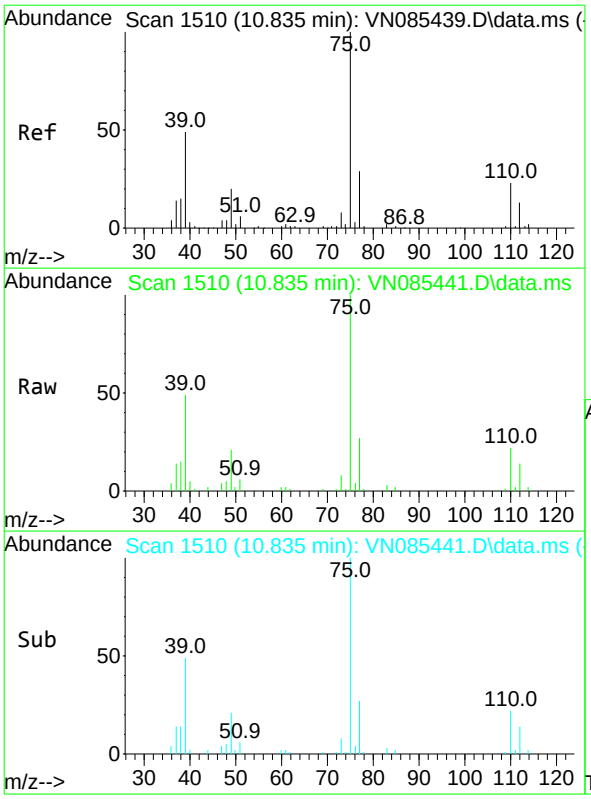




#52
Toluene
Concen: 9.527 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 92 Resp: 54976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.7 | 139.2 | 208.8 |






#53
t-1,3-Dichloropropene
Concen: 9.276 ug/l
RT: 10.835 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

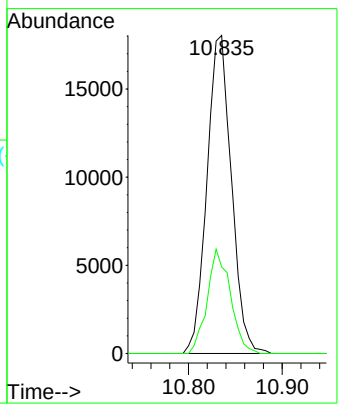
Tgt Ion: 75 Resp: 32780

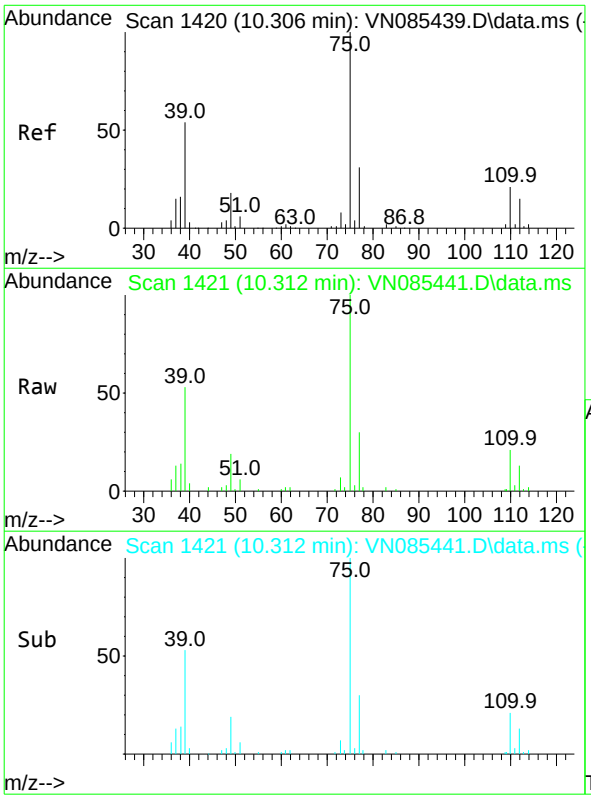
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 27.2 | 23.5 | 35.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

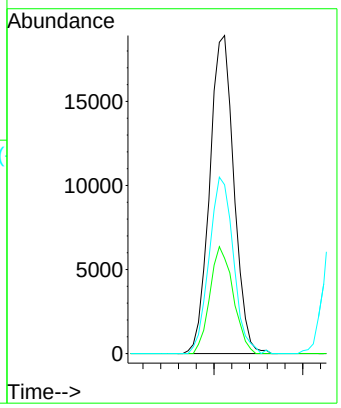


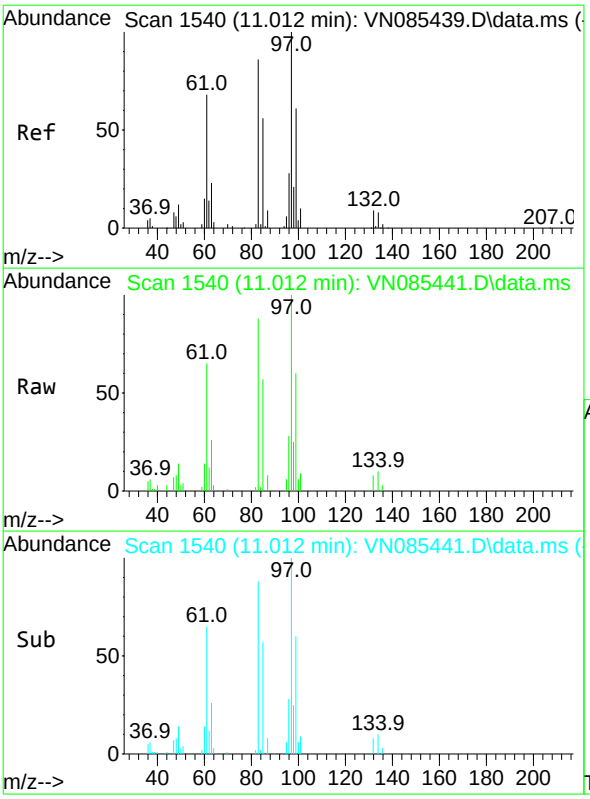




#54
cis-1,3-Dichloropropene
Concen: 9.512 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 35904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.0 | 25.0 | 37.4 |
| 39 | 53.1 | 43.1 | 64.7 |

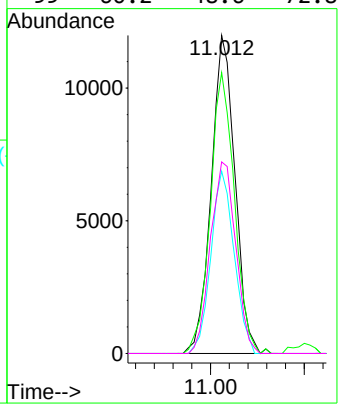





#55
1,1,2-Trichloroethane
Concen: 9.222 ug/l
RT: 11.012 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 97 Resp: 21060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.3 | 69.0 | 103.6 |
| 85 | 57.3 | 44.6 | 66.8 |
| 99 | 60.2 | 48.6 | 72.8 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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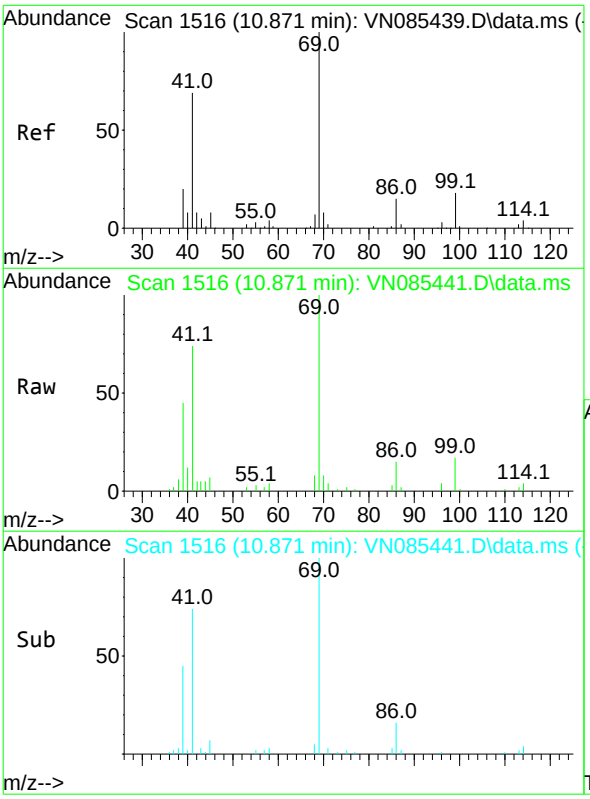
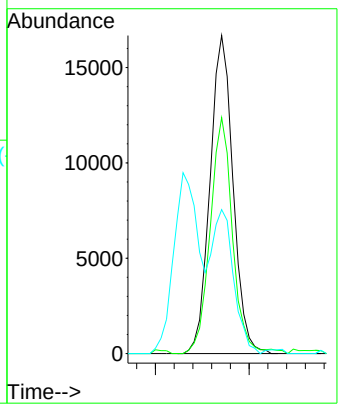
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

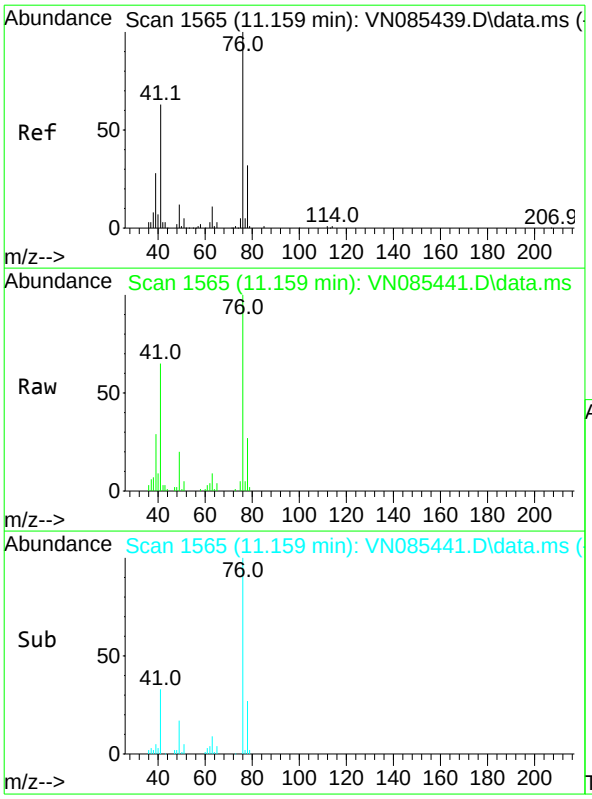



#56
Ethyl methacrylate
Concen: 9.042 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 69 Resp: 28454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 72.1 | 54.6 | 82.0 |
| 39 | 43.4 | 32.4 | 48.6 |






#57
1,3-Dichloropropane
Concen: 9.512 ug/l
RT: 11.159 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 76 Resp: 37768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.1 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

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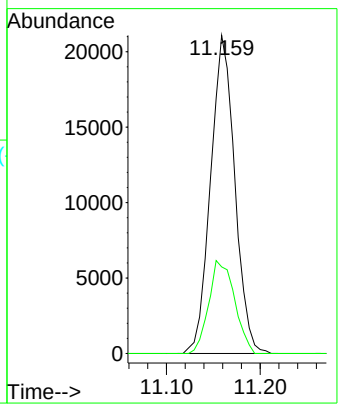
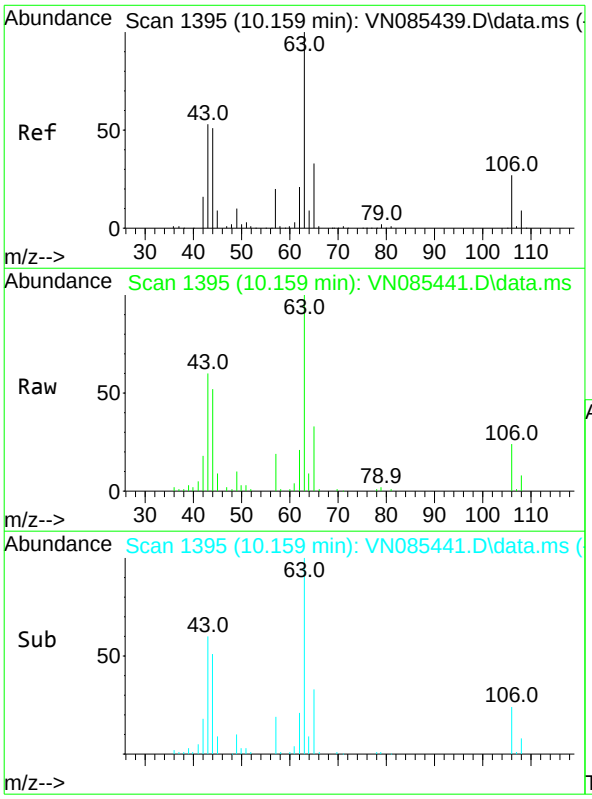
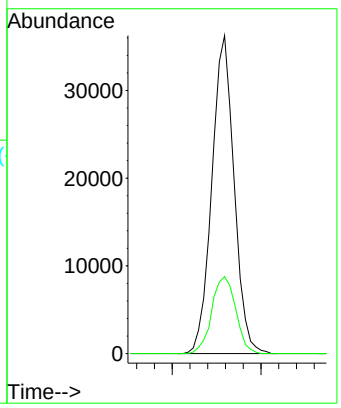


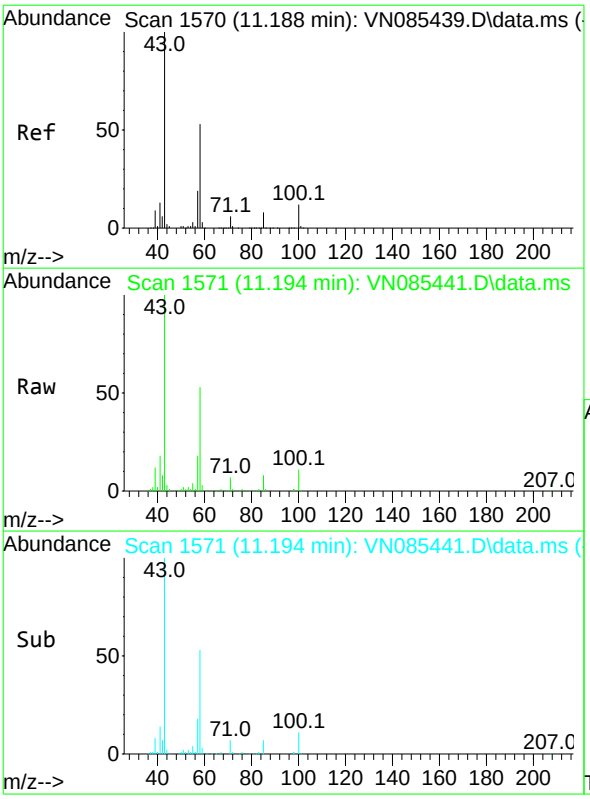




#58
2-Chloroethyl Vinyl ether
Concen: 43.550 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 63 Resp: 63110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.1 | 21.6 | 32.4 |






#59
2-Hexanone
Concen: 46.291 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 101318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 50.9 | 26.2 | 78.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

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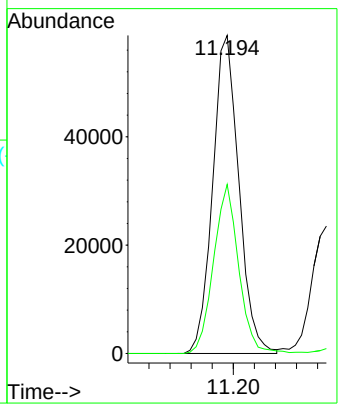
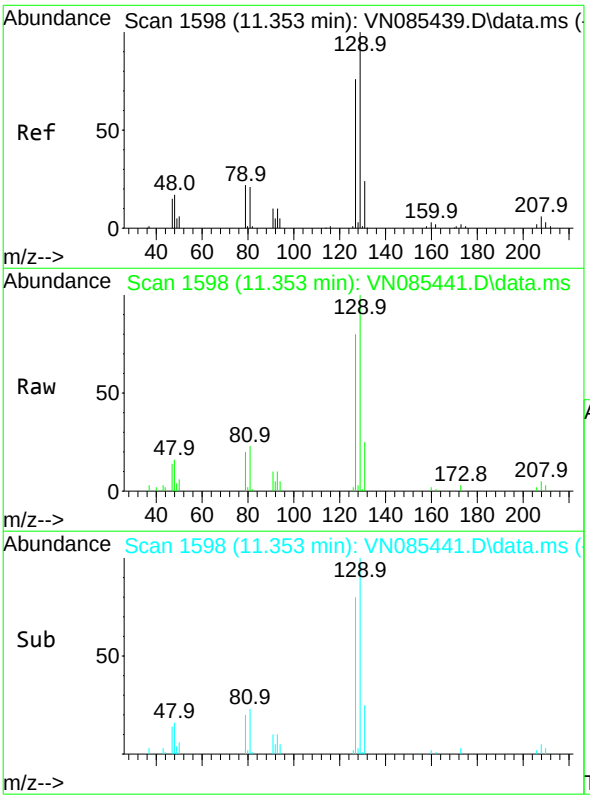
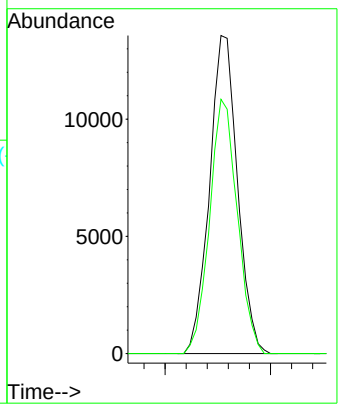


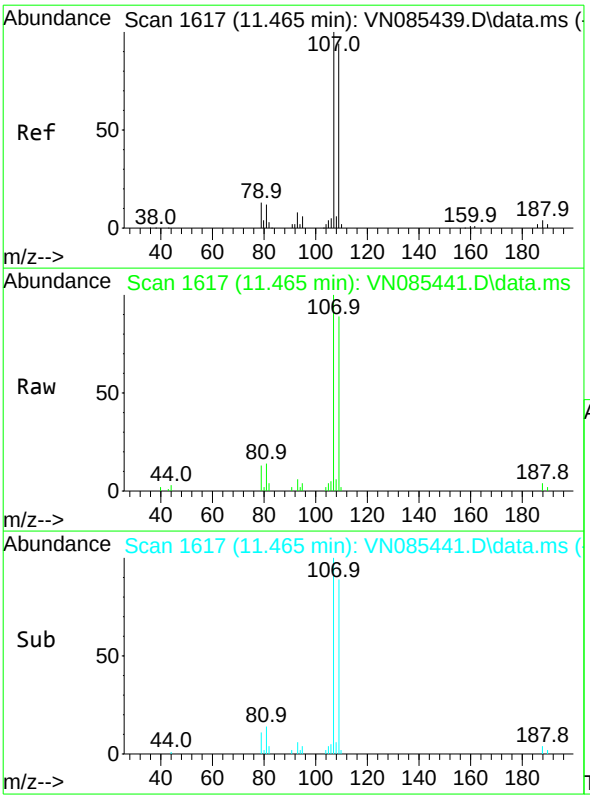




#60
Dibromochloromethane
Concen: 9.079 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:129 Resp: 25029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 79.1 | 38.6 | 115.8 |






#61
1,2-Dibromoethane
Concen: 9.263 ug/l
RT: 11.465 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:107 Resp: 21055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.6 | 75.9 | 113.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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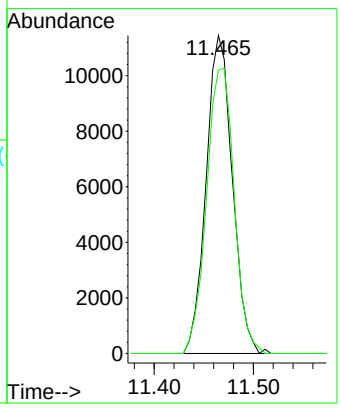
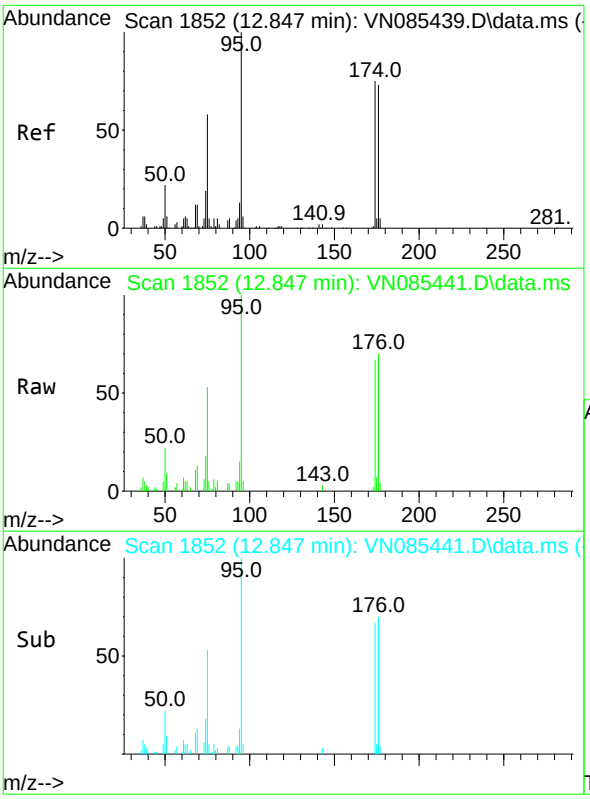
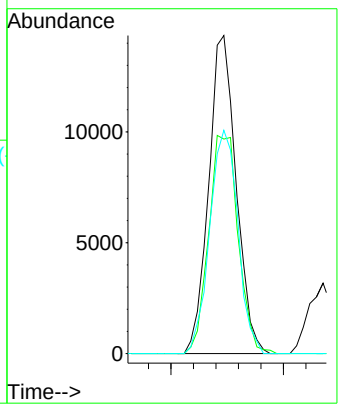


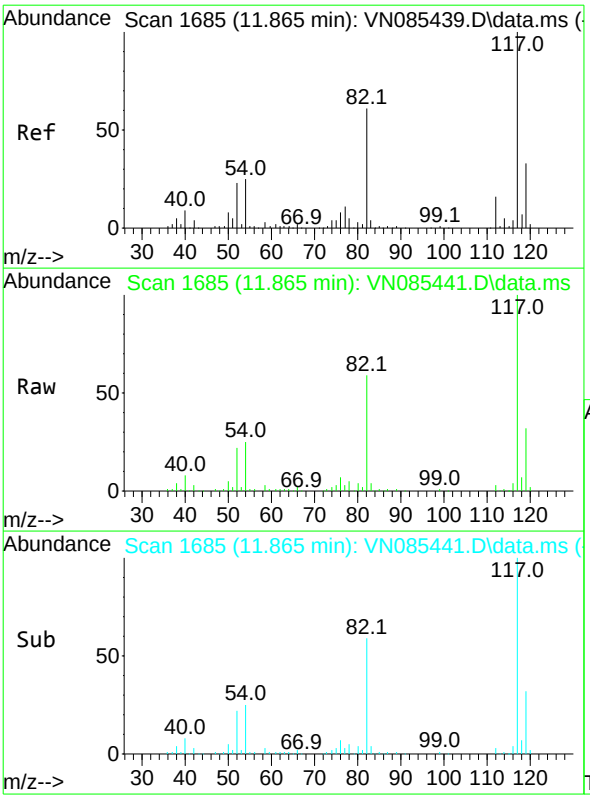




#62
4-Bromofluorobenzene
Concen: 8.476 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 95 Resp: 24327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 73.9 | 0.0 | 145.0 |
| 176 | 72.1 | 0.0 | 142.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:117 Resp: 294508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.7 | 48.6 | 72.8 |
| 119 | 32.2 | 26.6 | 39.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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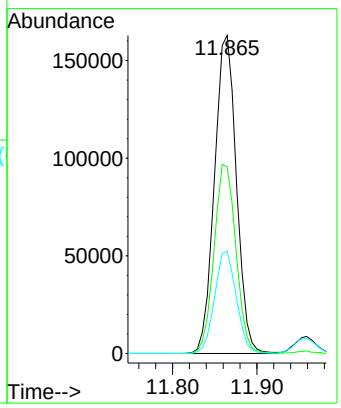
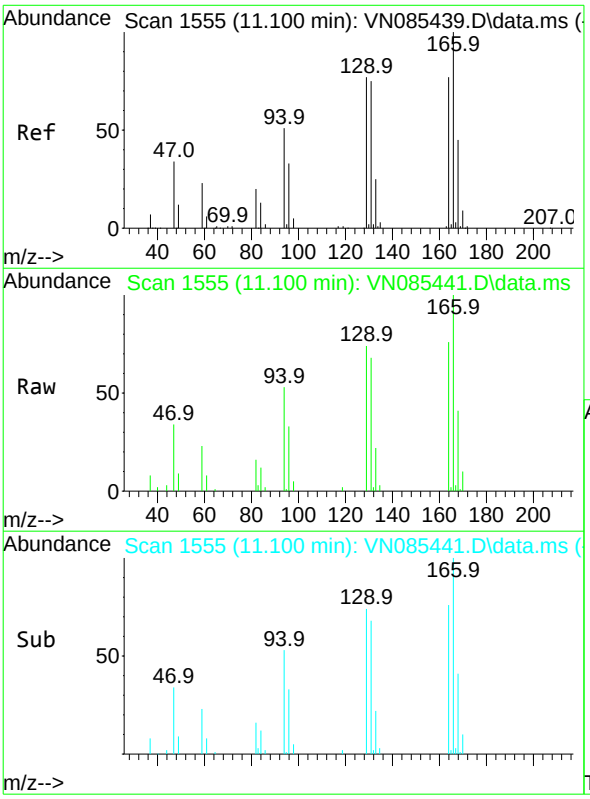
Supervised By :Mahesh Dadoda 01/15/2025

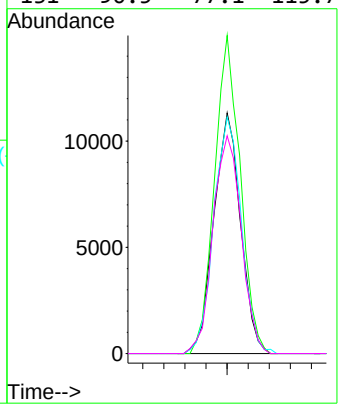


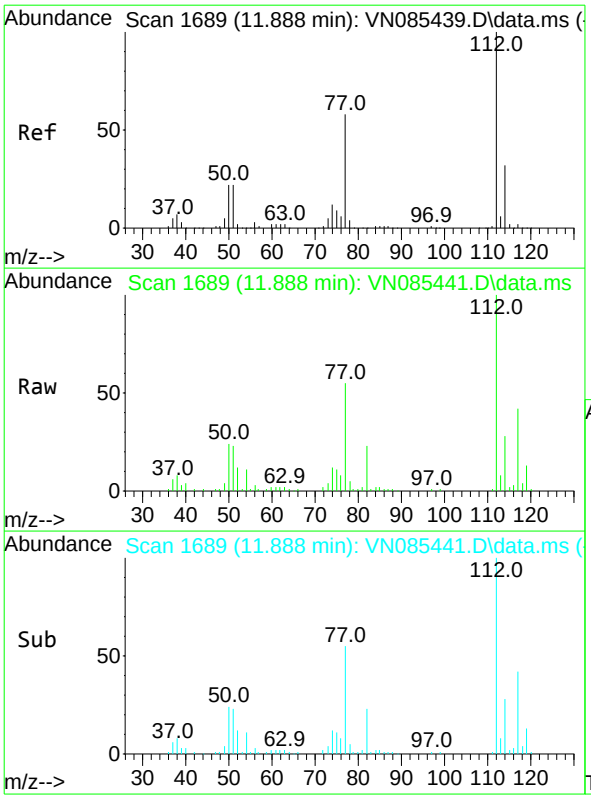




#64
Tetrachloroethene
Concen: 9.928 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:164 Resp: 19934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 132.2 | 103.4 | 155.2 |
| 129 | 98.3 | 79.2 | 118.8 |
| 131 | 90.5 | 77.1 | 115.7 |






#65
Chlorobenzene
Concen: 9.560 ug/l
RT: 11.888 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:112 Resp: 61680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 27.6 | 25.3 | 37.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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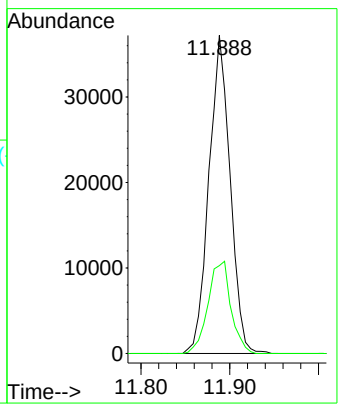
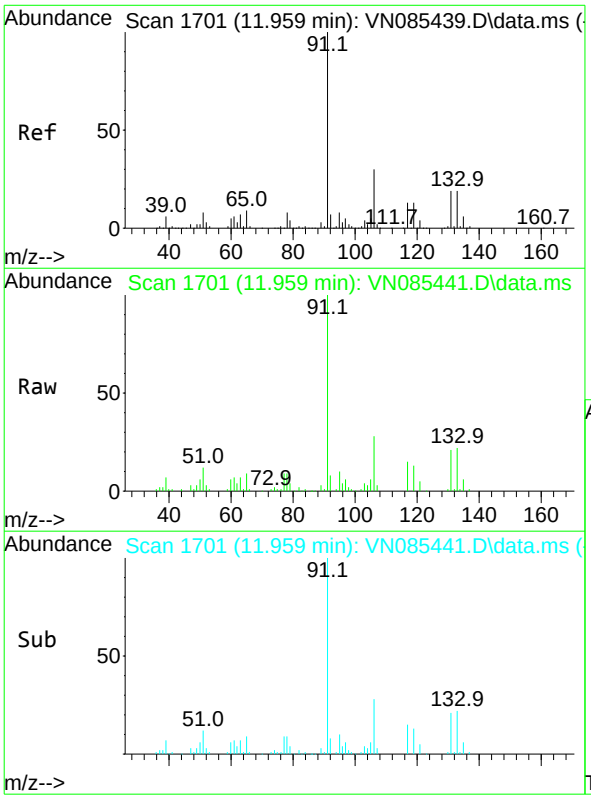
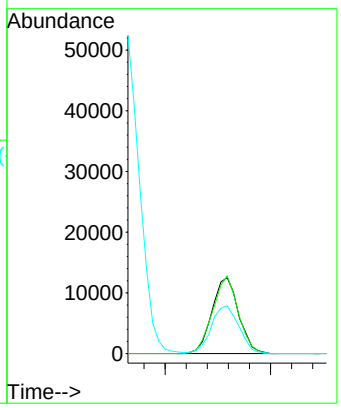


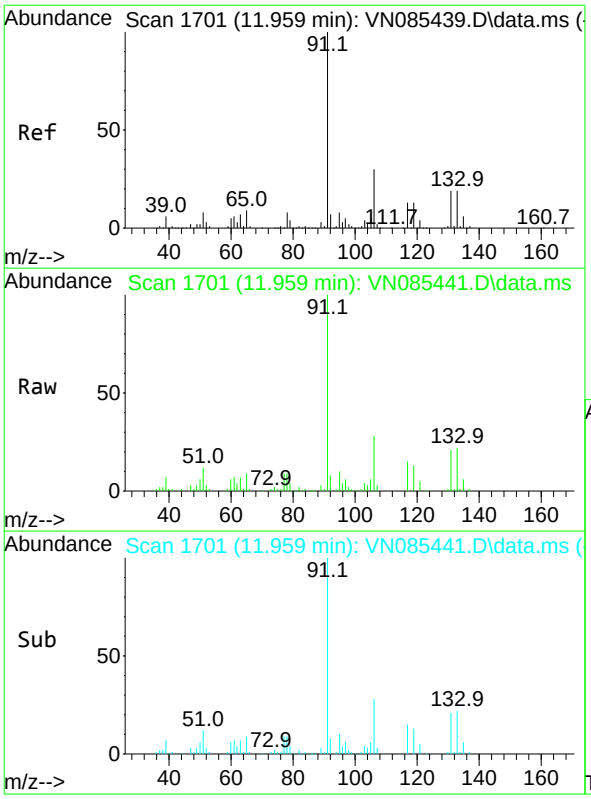




#66
1,1,1,2-Tetrachloroethane
Concen: 9.229 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:131 Resp: 21853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 98.5 | 47.4 | 142.3 |
| 119 | 66.0 | 33.1 | 99.5 |






#67
Ethyl Benzene
Concen: 9.445 ug/l
RT: 11.959 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 91 Resp: 99248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.2 | 23.8 | 35.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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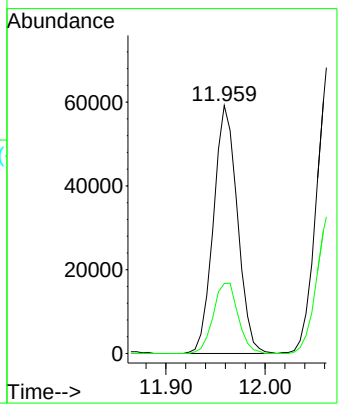
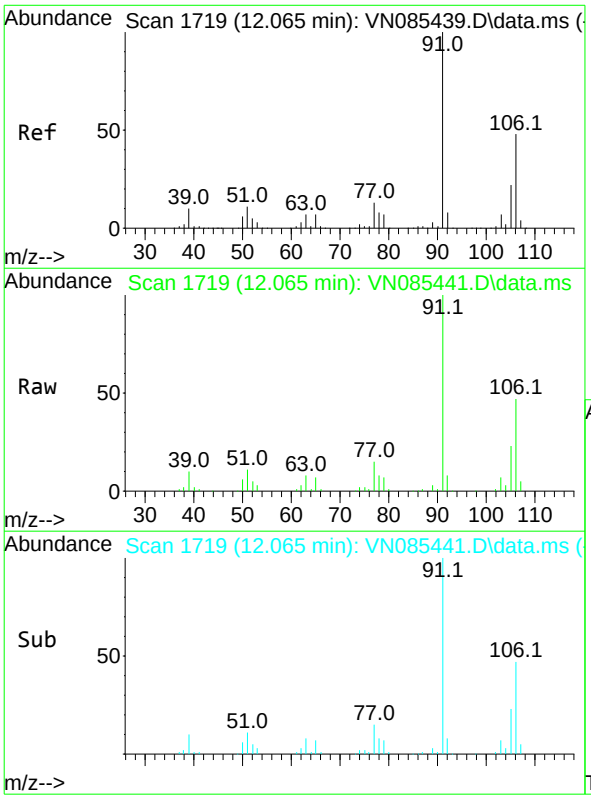
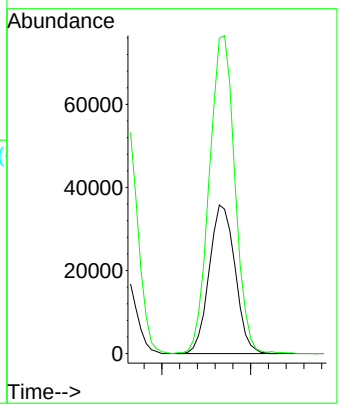


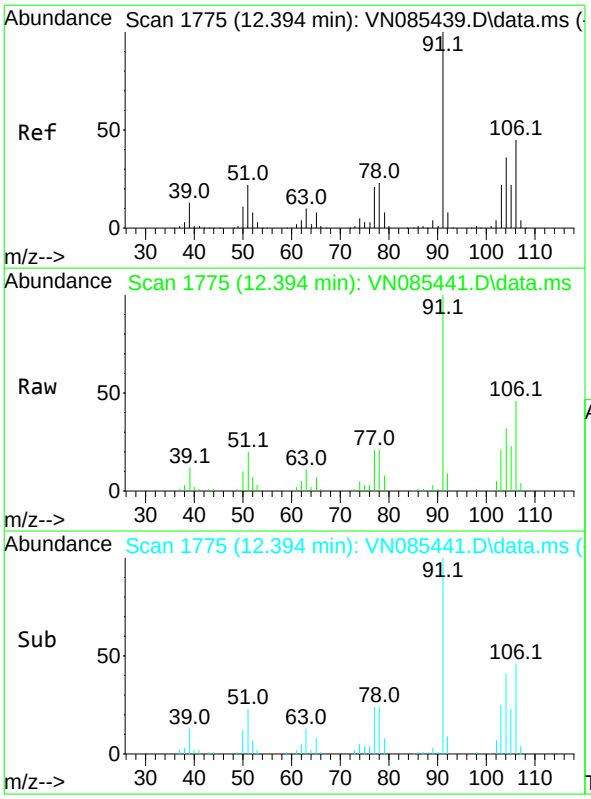




#68
m/p-Xylenes
Concen: 18.650 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:106 Resp: 72431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 211.7 | 167.7 | 251.5 |






#69
o-Xylene
Concen: 9.264 ug/l
RT: 12.394 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:106 Resp: 34382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.5 | 110.4 | 331.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

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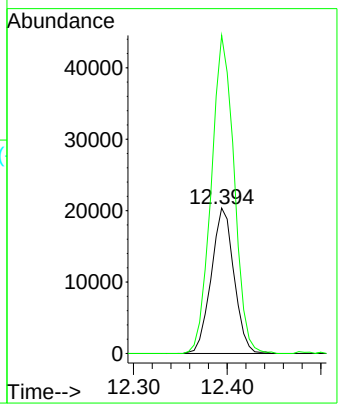
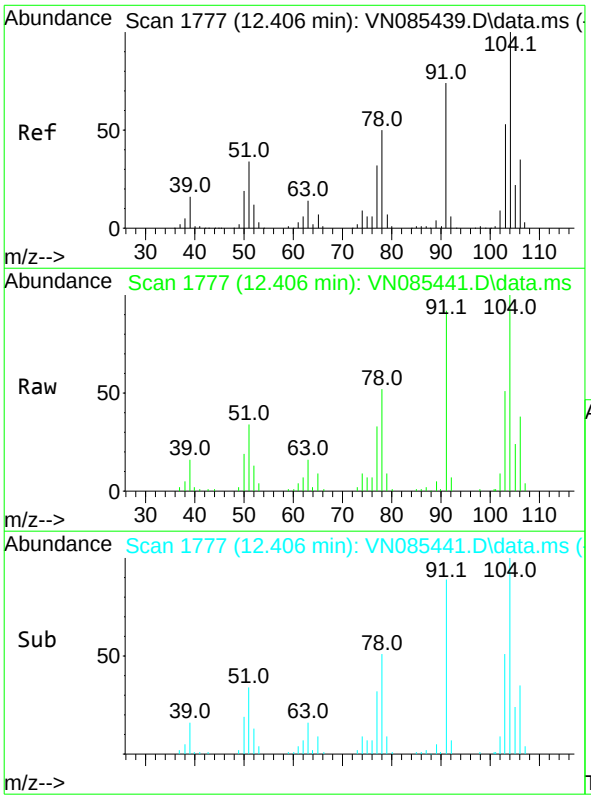
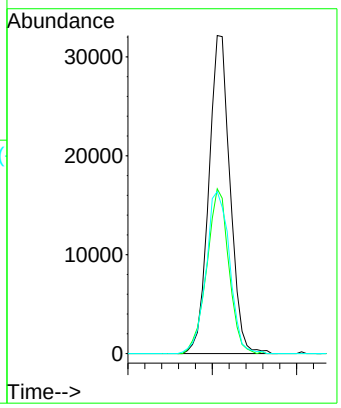


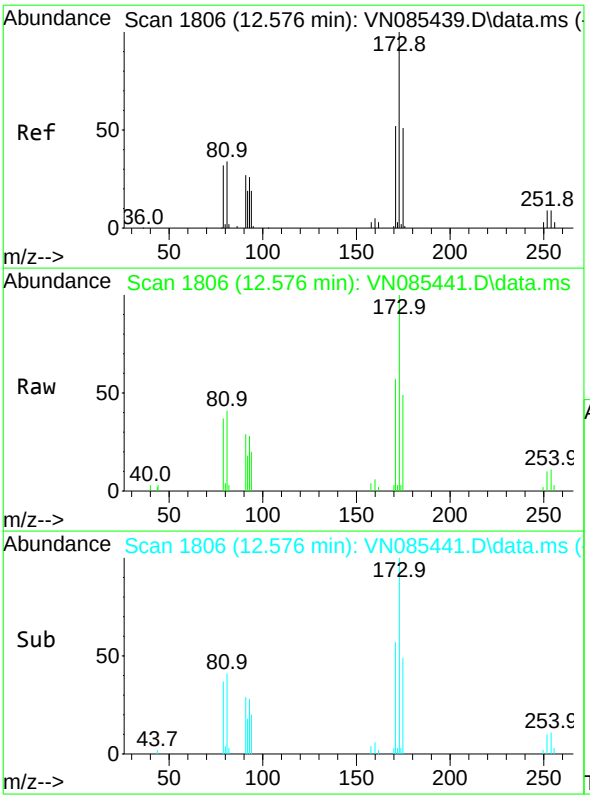




#70
Styrene
Concen: 9.163 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:104 Resp: 56285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.8 | 42.5 | 63.7 |
| 103 | 56.8 | 43.8 | 65.8 |






#71
Bromoform
Concen: 9.485 ug/l
RT: 12.576 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

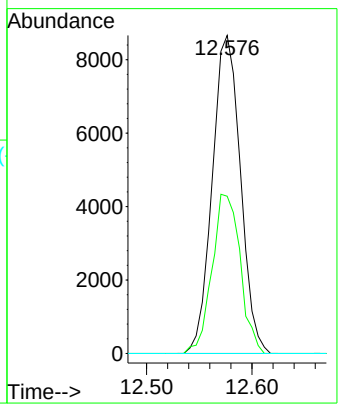
Tgt Ion:173 Resp: 16071

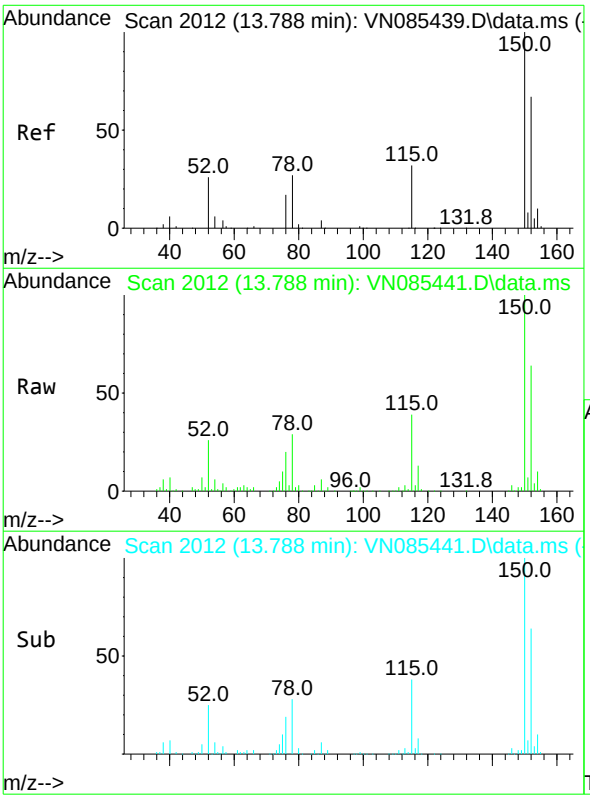
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 50.0 | 24.4 | 73.2 |
| 254 | 0.0 | 0.0 | 0.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

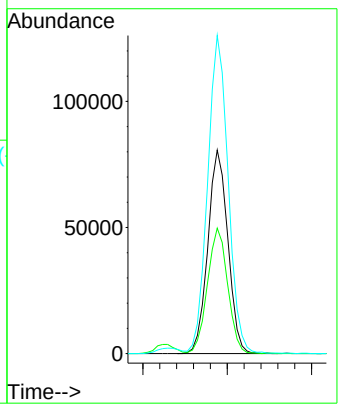


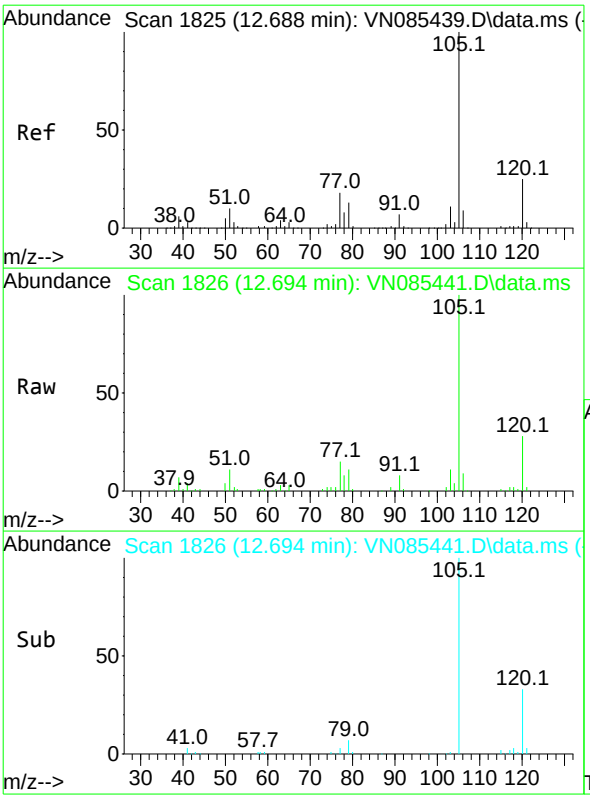




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:152 Resp: 132934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.3 | 31.1 | 93.3 |
| 150 | 159.8 | 0.0 | 343.6 |






#73
Isopropylbenzene
Concen: 9.697 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:105 Resp: 87003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 12.8 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

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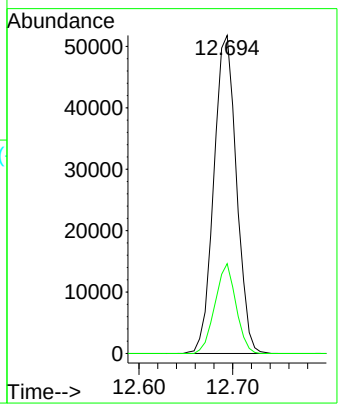
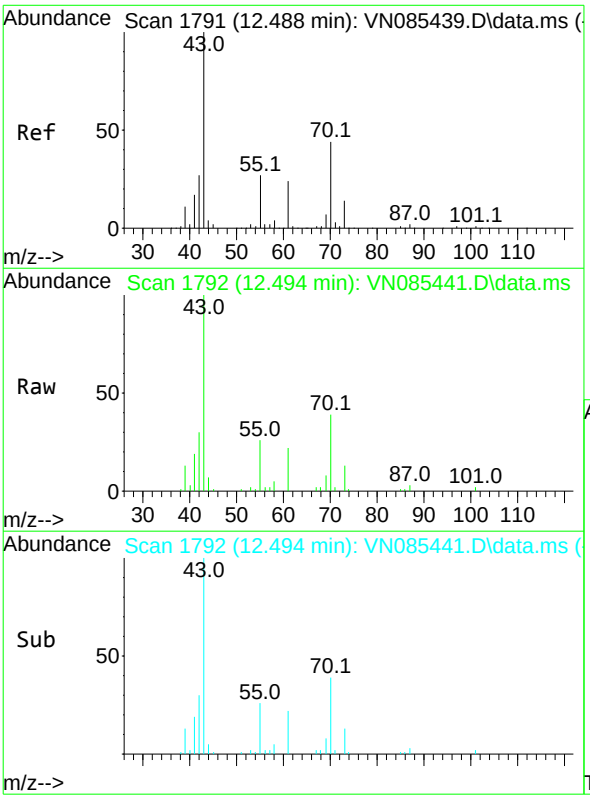
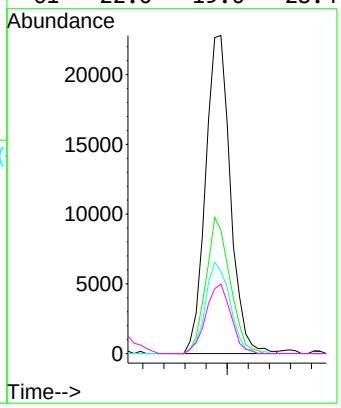


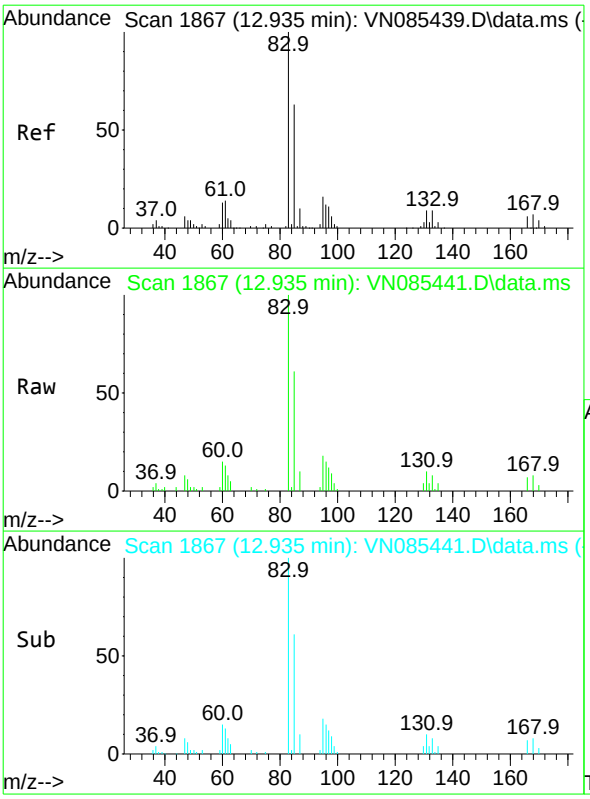




#74
N-amyl acetate
Concen: 9.260 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 37343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 41.4 | 34.0 | 51.0 |
| 55 | 28.5 | 21.4 | 32.2 |
| 61 | 22.0 | 19.0 | 28.4 |






#75
1,1,2,2-Tetrachloroethane
Concen: 9.709 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 83 Resp: 30770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.8 | 14.4 |
| 85 | 63.6 | 32.2 | 96.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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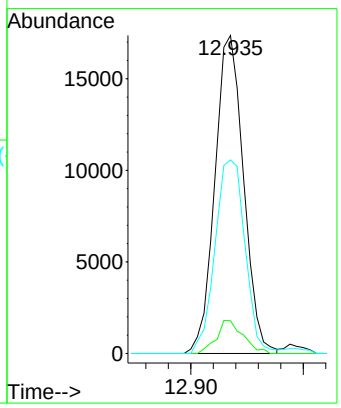
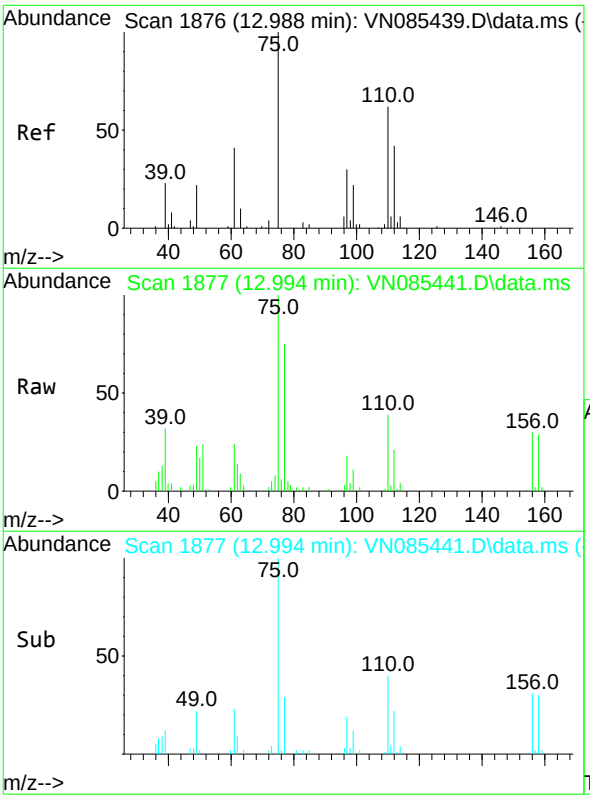
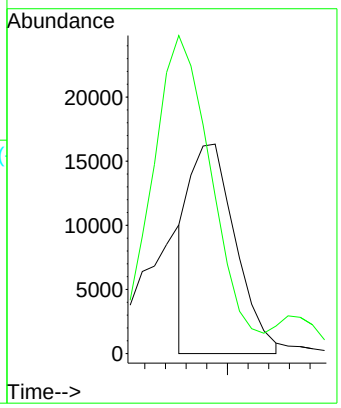


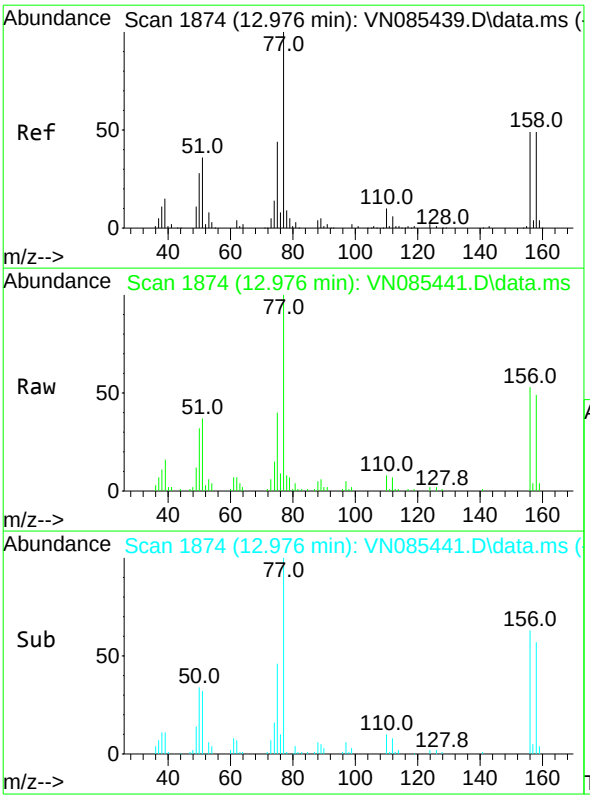




#76
1,2,3-Trichloropropane
Concen: 9.432 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 25443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 198.5 | 109.7 | 329.2 |






#77
Bromobenzene
Concen: 9.720 ug/l
RT: 12.976 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:156 Resp: 22784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 221.6 | 114.1 | 342.4 |
| 158 | 98.7 | 48.9 | 146.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

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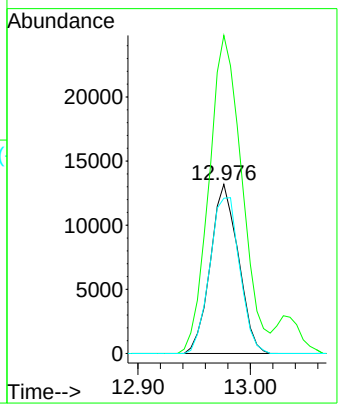
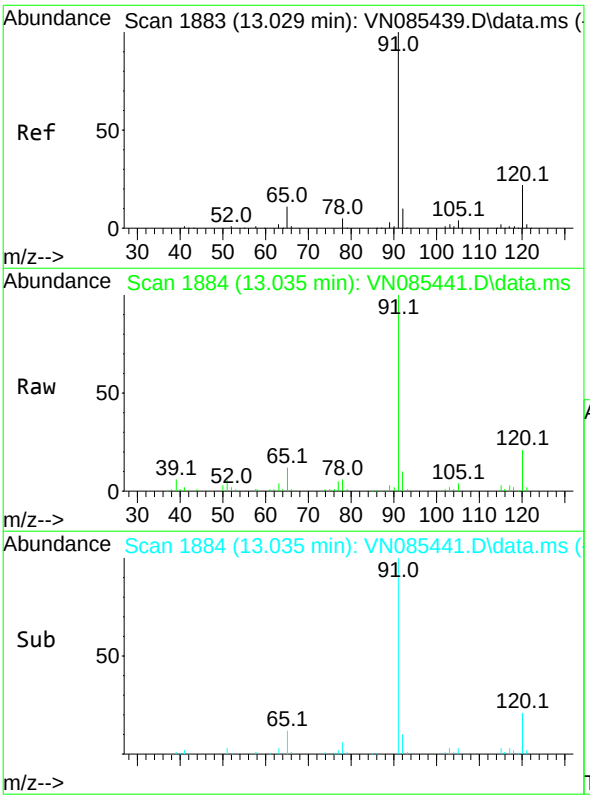
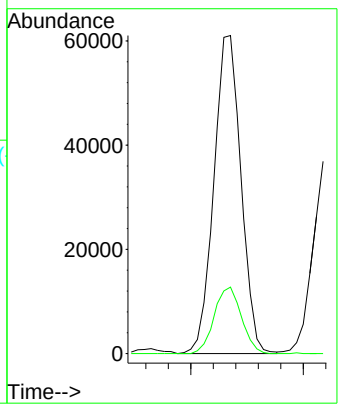


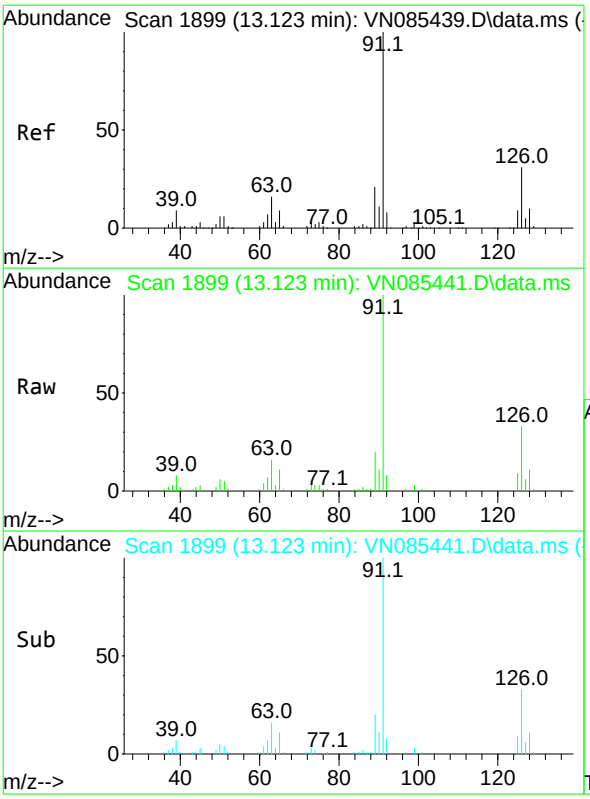




#78
n-propylbenzene
Concen: 9.628 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 91 Resp: 102262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 20.9 | 10.9 | 32.6 |






#79
2-Chlorotoluene
Concen: 9.943 ug/l
RT: 13.123 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 91 Resp: 68346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.5 | 15.7 | 47.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

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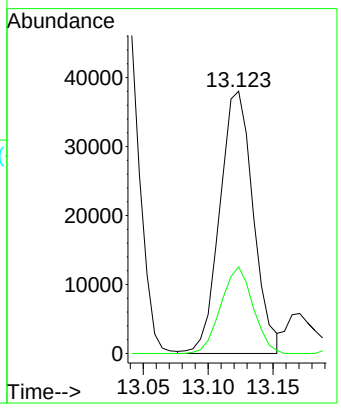
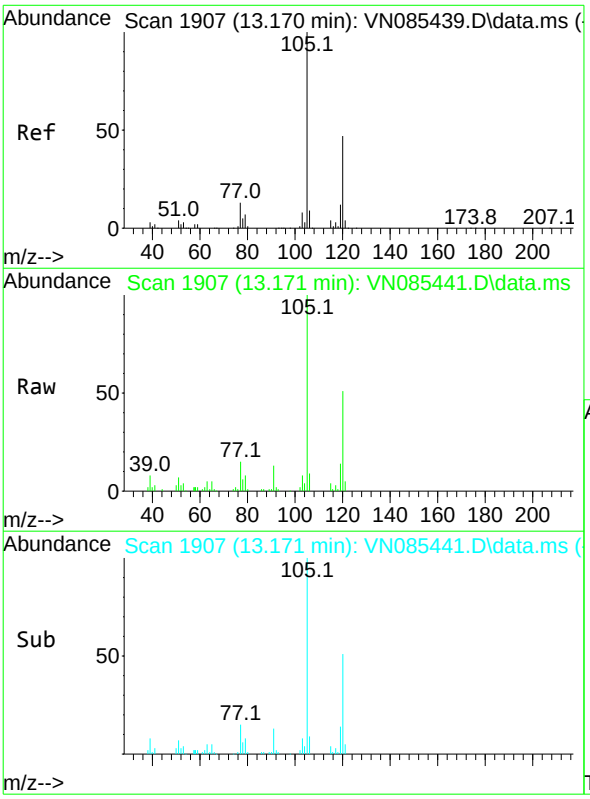
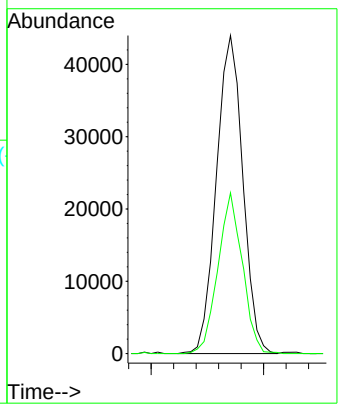


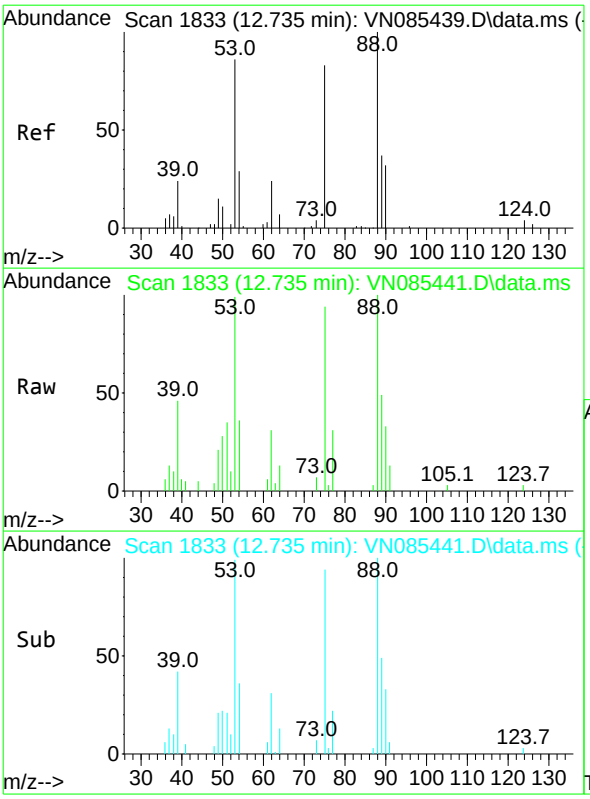




#80
1,3,5-Trimethylbenzene
Concen: 9.669 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:105 Resp: 71656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.8 | 23.9 | 71.7 |






#81
trans-1,4-Dichloro-2-butene
Concen: 9.248 ug/l
RT: 12.735 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 9236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 119.6 | 95.6 | 143.4 |
| 89 | 46.6 | 37.0 | 55.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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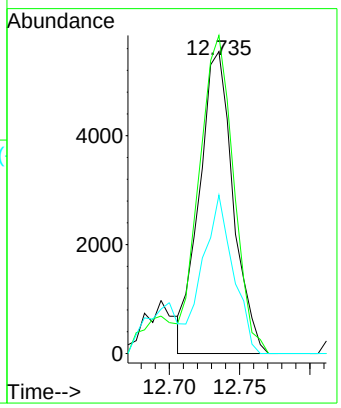
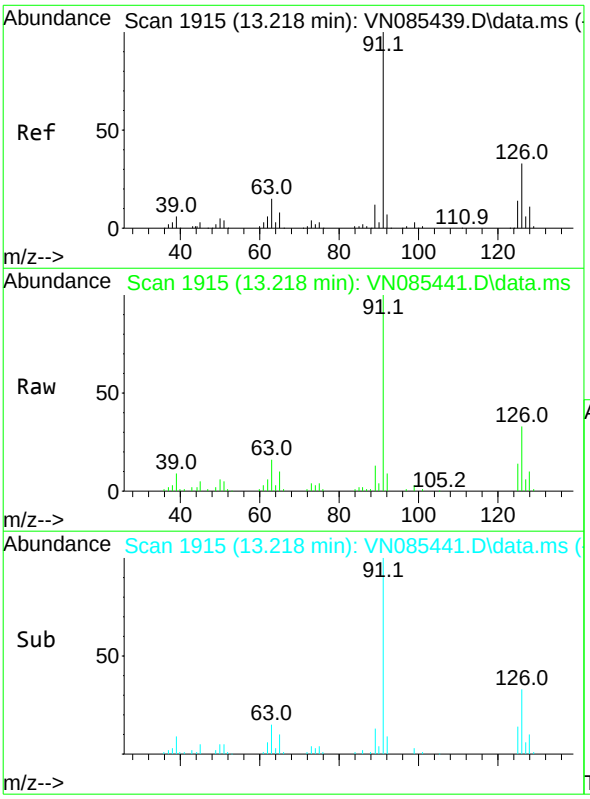
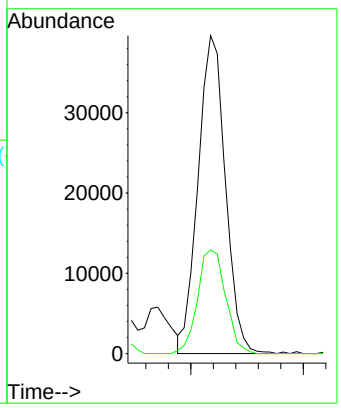


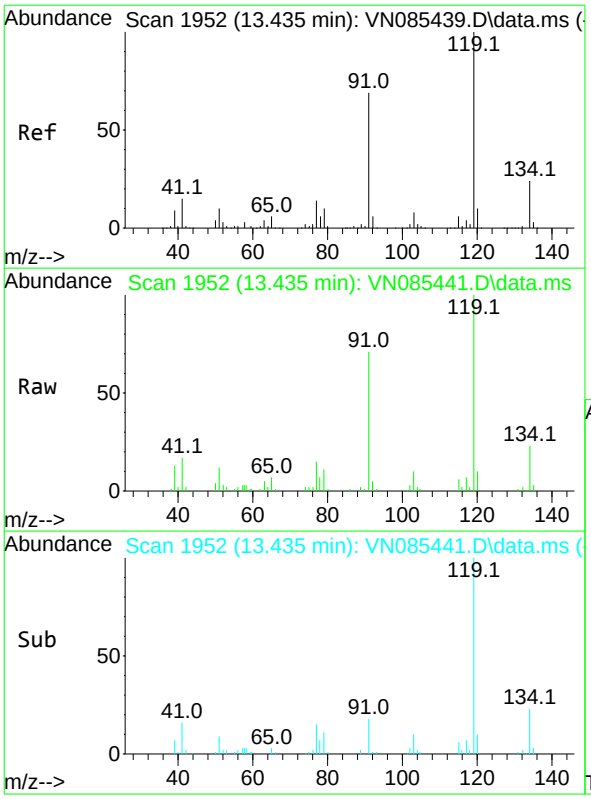




#82
4-Chlorotoluene
Concen: 9.756 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 91 Resp: 66773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.6 | 15.9 | 47.7 |






#83
tert-Butylbenzene
Concen: 9.553 ug/l
RT: 13.435 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:119 Resp: 59455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 70.0 | 35.1 | 105.3 |
| 134 | 27.8 | 12.0 | 36.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

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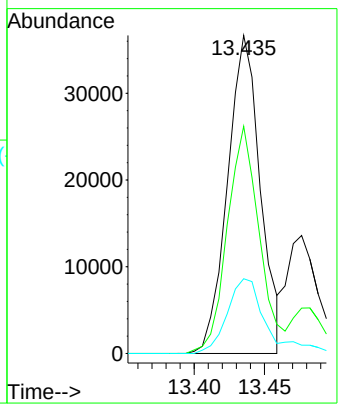
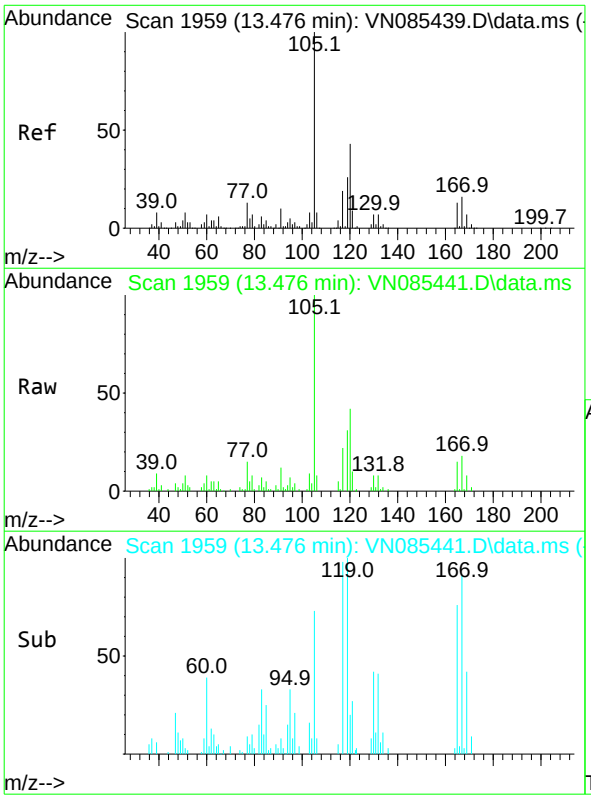
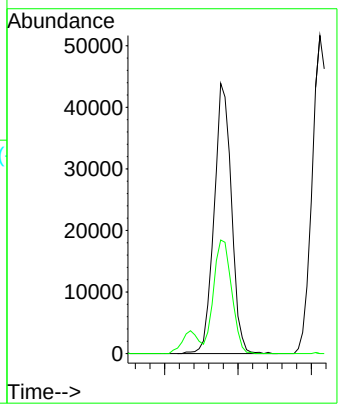


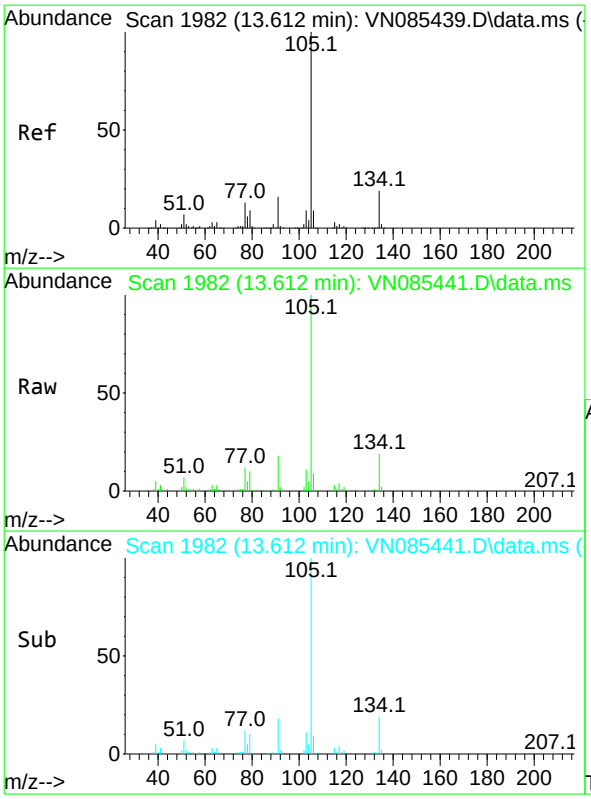




#84
1,2,4-Trimethylbenzene
Concen: 9.754 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:105 Resp: 72046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.8 | 21.6 | 65.0 |






#85
sec-Butylbenzene
Concen: 9.699 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:105 Resp: 83662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.9 | 9.7 | 28.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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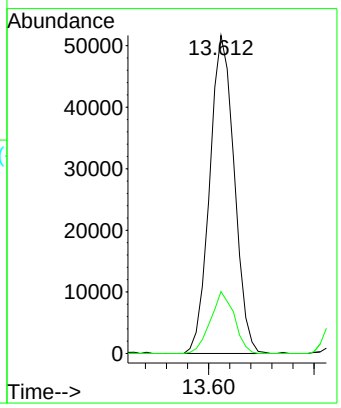
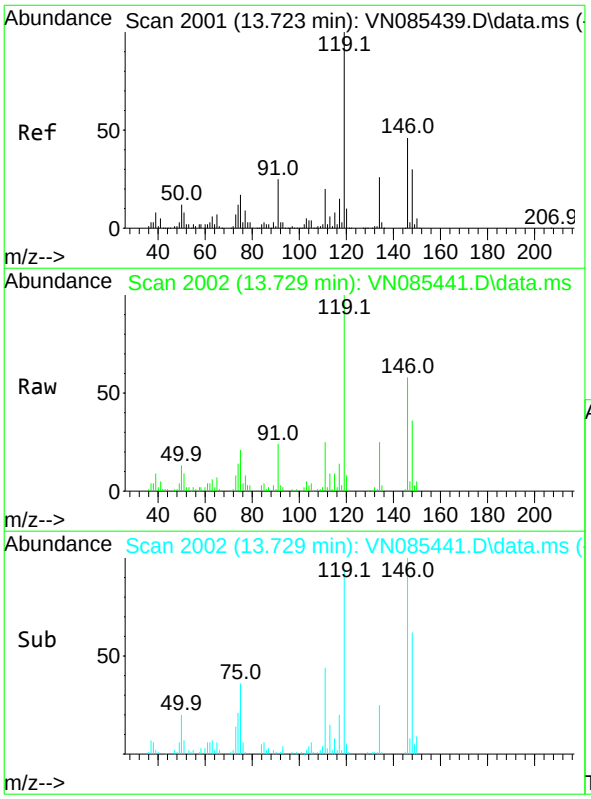
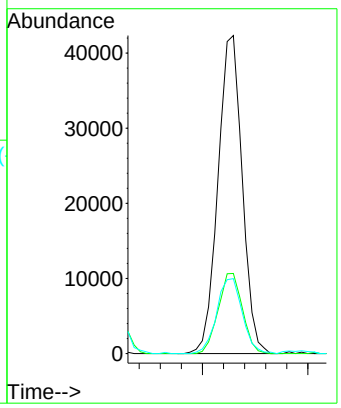


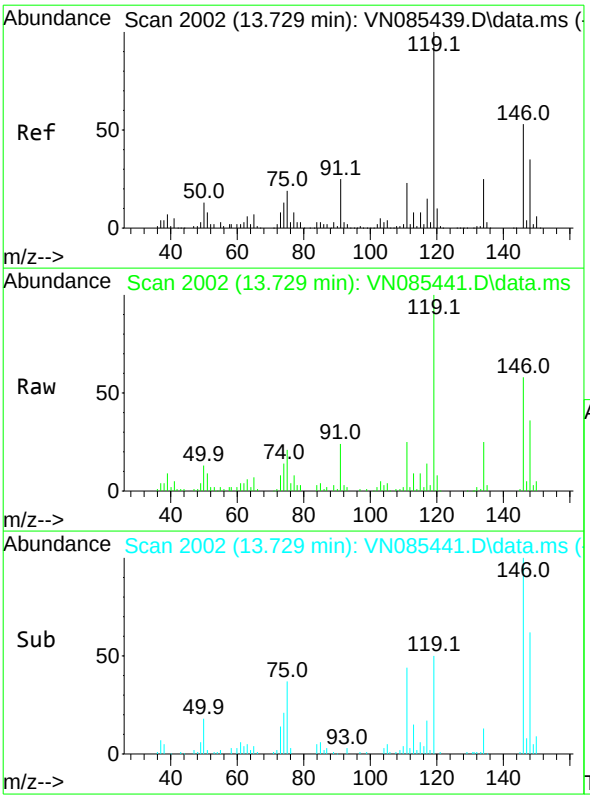




#86
p-Isopropyltoluene
Concen: 9.674 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:119 Resp: 67556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.2 | 12.7 | 38.0 |
| 91 | 25.0 | 12.7 | 38.1 |






#87
1,3-Dichlorobenzene
Concen: 9.693 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:146 Resp: 41843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.1 | 21.4 | 64.3 |
| 148 | 63.0 | 32.3 | 96.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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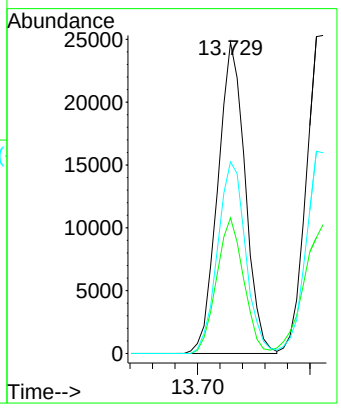
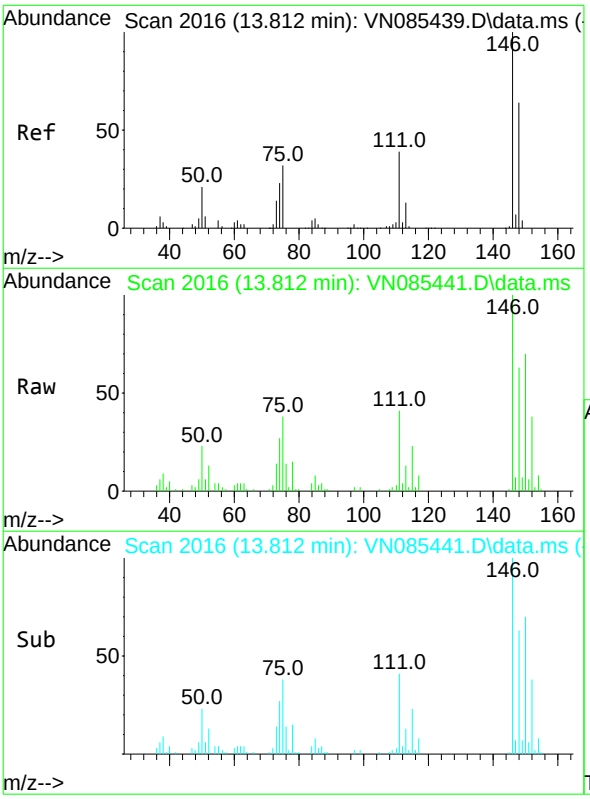
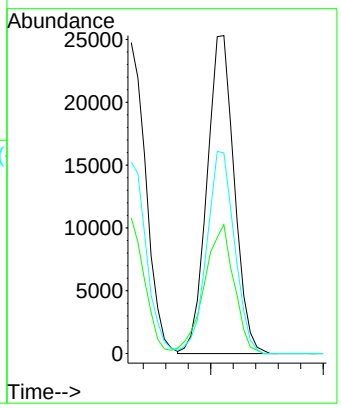


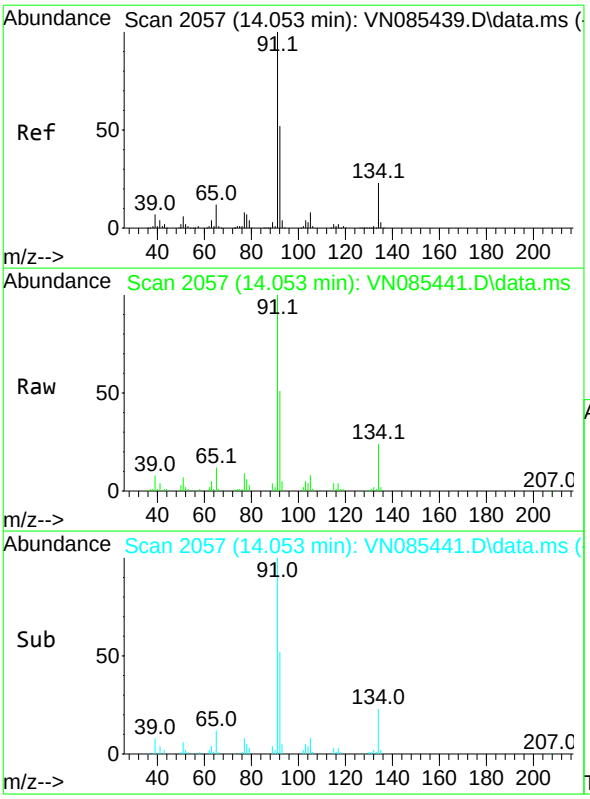




#88
1,4-Dichlorobenzene
Concen: 9.549 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:146 Resp: 42728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.0 | 21.3 | 63.7 |
| 148 | 64.6 | 32.4 | 97.0 |






#89
n-Butylbenzene
Concen: 9.314 ug/l
RT: 14.053 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 91 Resp: 57632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 49.2 | 25.8 | 77.3 |
| 134 | 22.8 | 11.7 | 35.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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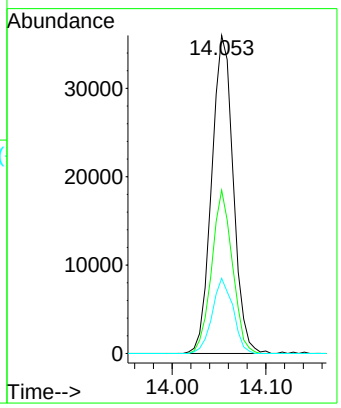
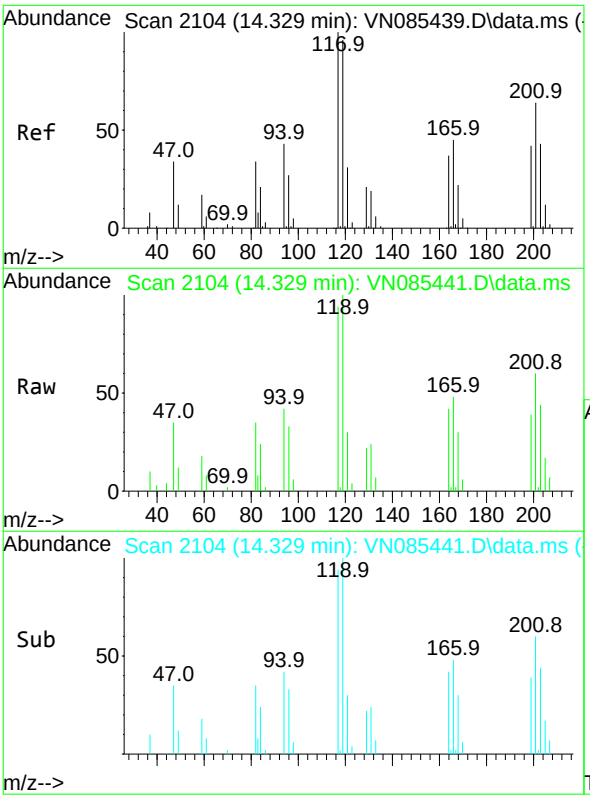
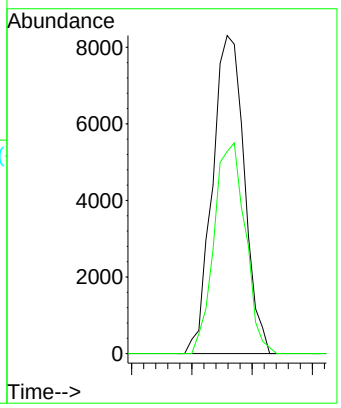


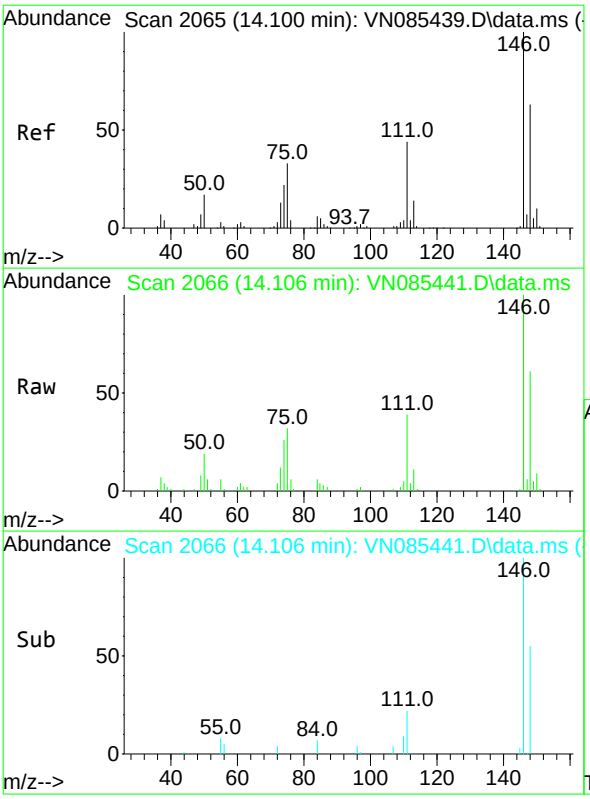




#90
Hexachloroethane
Concen: 9.294 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:117 Resp: 15261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 65.0 | 33.7 | 101.0 |






#91
1,2-Dichlorobenzene
Concen: 9.458 ug/l
RT: 14.106 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

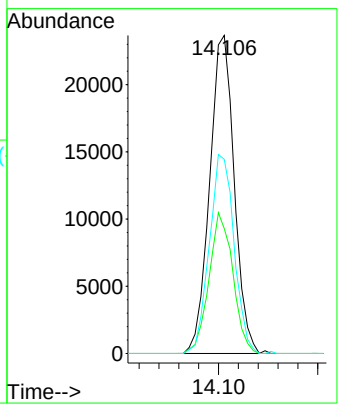
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

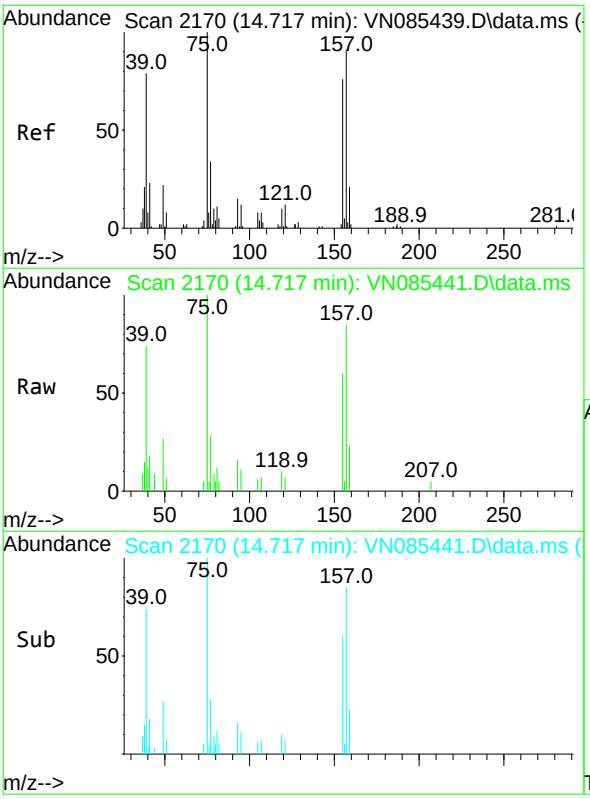
Tgt Ion:146 Resp: 40726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.9 | 21.7 | 65.1 |
| 148 | 62.9 | 31.4 | 94.2 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

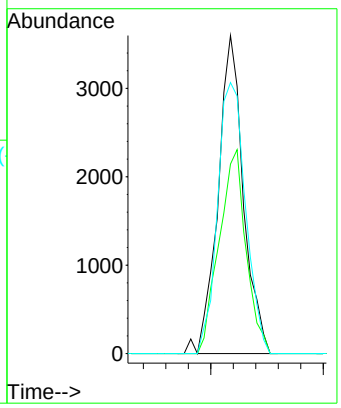


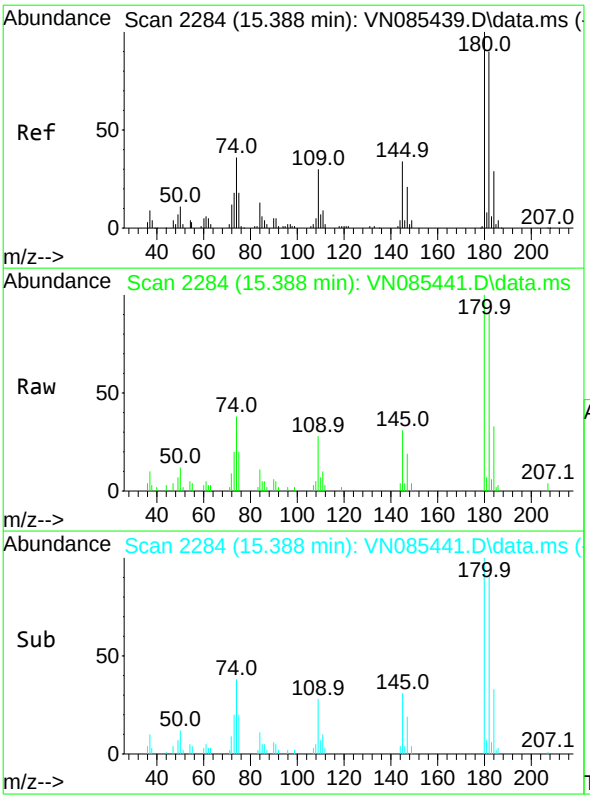




#92
1,2-Dibromo-3-Chloropropane
Concen: 9.744 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 5639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 67.9 | 36.4 | 109.2 |
| 157 | 94.1 | 45.4 | 136.1 |






#93
1,2,4-Trichlorobenzene
Concen: 9.354 ug/l
RT: 15.388 min Scan# 22
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

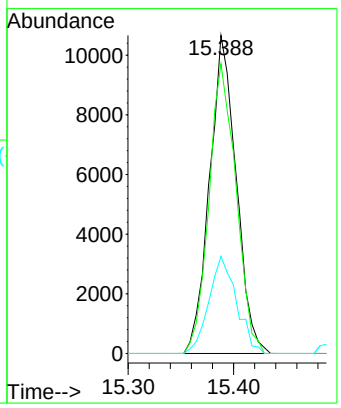
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

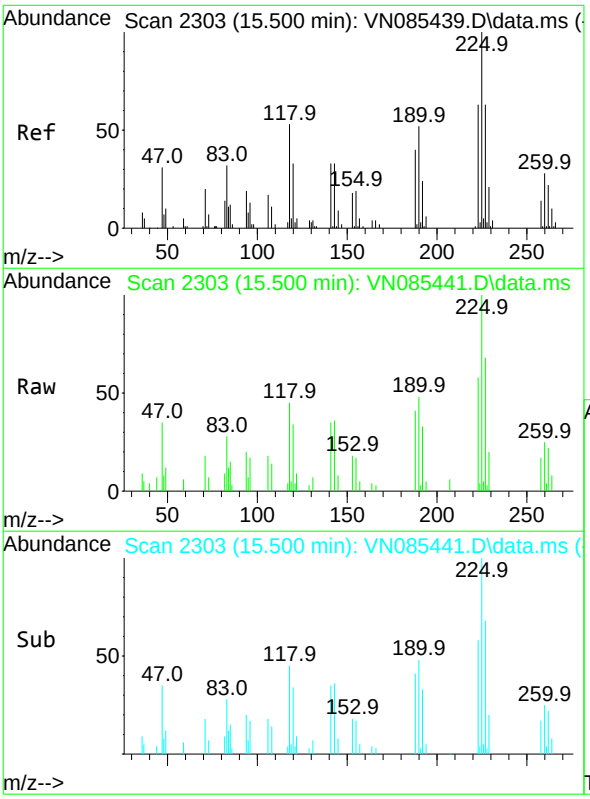
Tgt Ion:180 Resp: 18720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.4 | 46.8 | 140.3 |
| 145 | 31.7 | 16.0 | 48.0 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

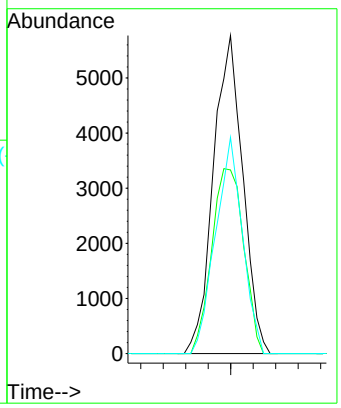


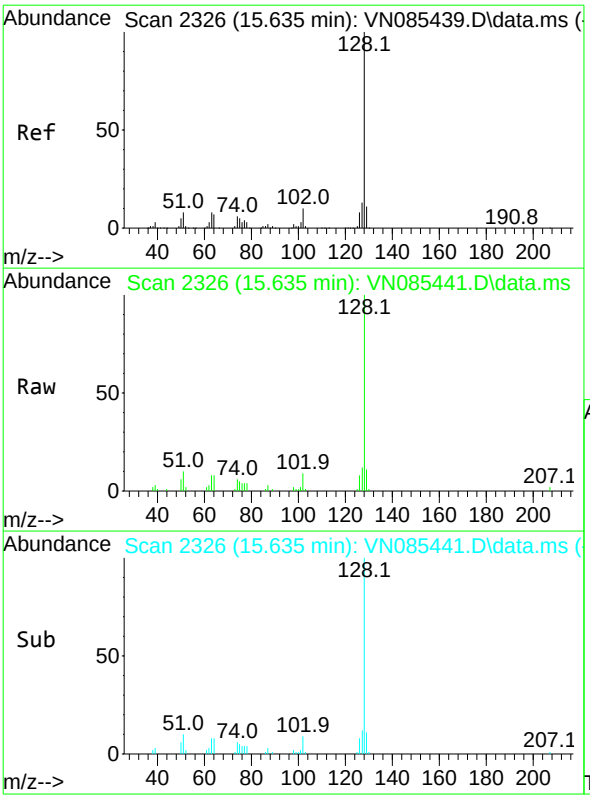




#94
Hexachlorobutadiene
Concen: 9.874 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:225 Resp: 10491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.3 | 30.7 | 92.1 |
| 227 | 62.1 | 30.9 | 92.5 |






#95
Naphthalene
Concen: 8.717 ug/l
RT: 15.635 min Scan# 23
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

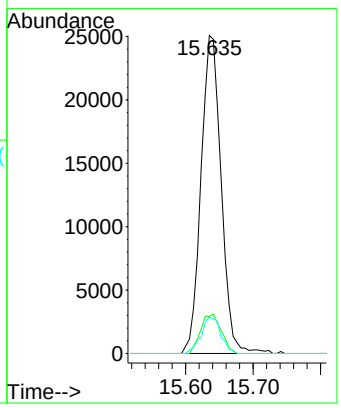
Tgt Ion:128 Resp: 52054

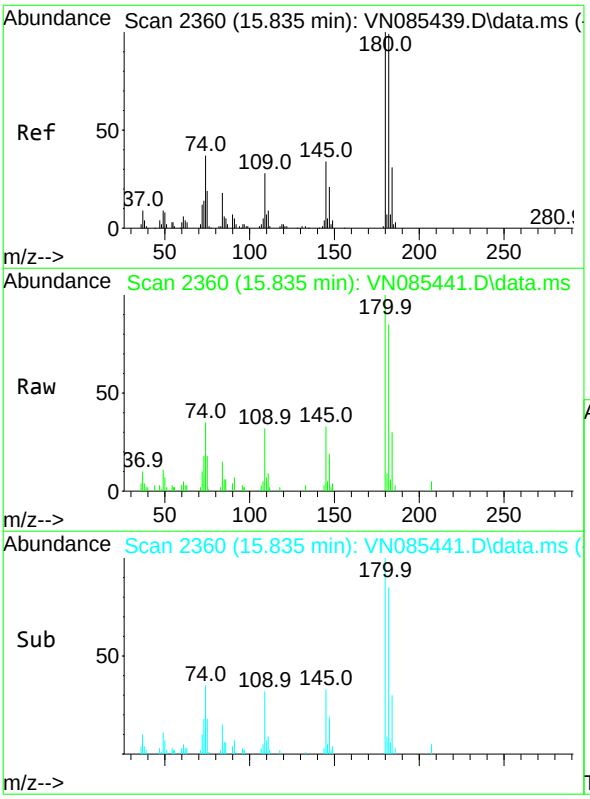
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.6 | 10.6 | 16.0 |
| 129 | 11.2 | 8.8 | 13.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

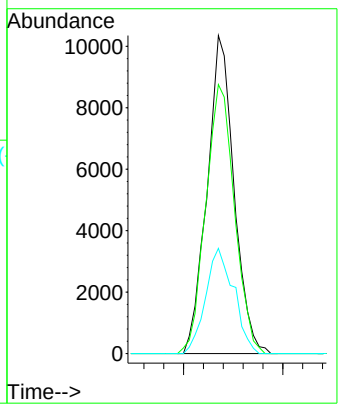



#96
1,2,3-Trichlorobenzene
Concen: 9.605 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:180 Resp: 19450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 90.3 | 47.4 | 142.2 |
| 145 | 34.7 | 16.9 | 50.7 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 186556 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 324413 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 282203 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 126086 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 17046 | 5.660 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 11.320%# | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 12102 | 5.377 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 10.760%# | | | |
| 50) Toluene-d8 | 10.565 | 98 | 41328 | 5.168 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 10.340%# | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 13520 | 4.943 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 9.880%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 13199 | 5.225 | ug/l | 97 |
| 3) Chloromethane | 2.359 | 50 | 14526 | 5.311 | ug/l | 96 |
| 4) Vinyl Chloride | 2.512 | 62 | 14564 | 5.298 | ug/l | 98 |
| 5) Bromomethane | 2.953 | 94 | 9788 | 5.895 | ug/l | 98 |
| 6) Chloroethane | 3.124 | 64 | 9430 | 5.411 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.501 | 101 | 20098 | 5.039 | ug/l | 92 |
| 8) Diethyl Ether | 3.959 | 74 | 6652 | 4.828 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 4.365 | 101 | 11917 | 5.305 | ug/l | 97 |
| 10) Methyl Iodide | 4.583 | 142 | 12331 | 4.793 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.518 | 59 | 9075 | 26.318 | ug/l # | 94 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 10429 | 5.209 | ug/l | 96 |
| 13) Acrolein | 4.171 | 56 | 9430 | 20.033 | ug/l | 97 |
| 14) Allyl chloride | 5.030 | 41 | 16741 | 5.153 | ug/l | 97 |
| 15) Acrylonitrile | 5.718 | 53 | 27869 | 25.445 | ug/l | 97 |
| 16) Acetone | 4.430 | 43 | 25122 | 25.819 | ug/l | 97 |
| 17) Carbon Disulfide | 4.706 | 76 | 32068 | 5.202 | ug/l | 96 |
| 18) Methyl Acetate | 5.024 | 43 | 15106 | 5.106 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.800 | 73 | 31439 | 4.836 | ug/l | 94 |
| 20) Methylene Chloride | 5.271 | 84 | 12981 | 5.389 | ug/l # | 83 |
| 21) trans-1,2-Dichloroethene | 5.783 | 96 | 10614 | 4.960 | ug/l # | 78 |
| 22) Diisopropyl ether | 6.665 | 45 | 35785 | 4.962 | ug/l # | 96 |
| 23) Vinyl Acetate | 6.600 | 43 | 118439m | 23.389 | ug/l | |
| 24) 1,1-Dichloroethane | 6.565 | 63 | 22865 | 5.200 | ug/l | 99 |
| 25) 2-Butanone | 7.483 | 43 | 36127 | 25.231 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.488 | 77 | 18398 | 5.175 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.488 | 96 | 12477 | 4.951 | ug/l | 99 |
| 28) Bromochloromethane | 7.806 | 49 | 11096 | 5.424 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.841 | 42 | 21983 | 24.215 | ug/l | 99 |
| 30) Chloroform | 7.959 | 83 | 23384 | 5.146 | ug/l | 98 |
| 31) Cyclohexane | 8.247 | 56 | 22343 | 5.846 | ug/l # | 92 |
| 32) 1,1,1-Trichloroethane | 8.159 | 97 | 21416 | 5.372 | ug/l | 91 |
| 36) 1,1-Dichloropropene | 8.371 | 75 | 15886 | 5.029 | ug/l | 96 |
| 37) Ethyl Acetate | 7.553 | 43 | 16879m | 5.294 | ug/l | |
| 38) Carbon Tetrachloride | 8.359 | 117 | 18317 | 5.065 | ug/l | 96 |
| 39) Methylcyclohexane | 9.600 | 83 | 14175 | 4.776 | ug/l | 98 |
| 40) Benzene | 8.600 | 78 | 47833 | 5.040 | ug/l | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.777 | 41 | 7380 | 4.449 ug/l | 96 |
| 42) 1,2-Dichloroethane | 8.671 | 62 | 18628 | 5.211 ug/l | 98 |
| 43) Isopropyl Acetate | 8.688 | 43 | 24792 | 4.853 ug/l | 98 |
| 44) Trichloroethene | 9.347 | 130 | 11133 | 5.039 ug/l | 86 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 12591 | 5.194 ug/l | 92 |
| 46) Dibromomethane | 9.700 | 93 | 8230 | 4.705 ug/l | 91 |
| 47) Bromodichloromethane | 9.888 | 83 | 18456 | 5.179 ug/l # | 96 |
| 48) Methyl methacrylate | 9.677 | 41 | 10574 | 4.599 ug/l | 95 |
| 49) 1,4-Dioxane | 9.694 | 88 | 3619 | 93.477 ug/l | 97 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 71889 | 24.250 ug/l | 98 |
| 52) Toluene | 10.629 | 92 | 27098 | 4.928 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.829 | 75 | 17099 | 5.077 ug/l | 95 |
| 54) cis-1,3-Dichloropropene | 10.306 | 75 | 17440 | 4.848 ug/l | 97 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 11311 | 5.197 ug/l | 96 |
| 56) Ethyl methacrylate | 10.871 | 69 | 14094 | 5.627 ug/l | 94 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 18945 | 5.006 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 33210 | 24.047 ug/l | 97 |
| 59) 2-Hexanone | 11.194 | 43 | 49021 | 23.501 ug/l | 94 |
| 60) Dibromochloromethane | 11.353 | 129 | 13635 | 5.190 ug/l | 96 |
| 61) 1,2-Dibromoethane | 11.471 | 107 | 10419 | 4.810 ug/l | 98 |
| 64) Tetrachloroethene | 11.100 | 164 | 9756 | 5.071 ug/l | 91 |
| 65) Chlorobenzene | 11.888 | 112 | 31312 | 5.065 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 11620 | 5.121 ug/l | 98 |
| 67) Ethyl Benzene | 11.965 | 91 | 48216 | 4.789 ug/l | 98 |
| 68) m/p-Xylenes | 12.065 | 106 | 34771 | 9.344 ug/l | 99 |
| 69) o-Xylene | 12.394 | 106 | 16419 | 4.617 ug/l | 98 |
| 70) Styrene | 12.412 | 104 | 26218 | 4.454 ug/l | 99 |
| 71) Bromoform | 12.576 | 173 | 8017 | 4.938 ug/l # | 99 |
| 73) Isopropylbenzene | 12.694 | 105 | 39811 | 4.678 ug/l | 99 |
| 74) N-amyl acetate | 12.488 | 43 | 17577 | 4.595 ug/l | 95 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 15483 | 5.151 ug/l | 97 |
| 76) 1,2,3-Trichloropropane | 12.994 | 75 | 12173m | 4.758 ug/l | |
| 77) Bromobenzene | 12.982 | 156 | 11091 | 4.989 ug/l | 99 |
| 78) n-propylbenzene | 13.035 | 91 | 45450 | 4.512 ug/l | 99 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 31932 | 4.898 ug/l | 98 |
| 80) 1,3,5-Trimethylbenzene | 13.170 | 105 | 31891 | 4.537 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.729 | 75 | 4229 | 4.465 ug/l | 90 |
| 82) 4-Chlorotoluene | 13.218 | 91 | 31976 | 4.926 ug/l | 100 |
| 83) tert-Butylbenzene | 13.435 | 119 | 27597 | 4.675 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.482 | 105 | 32054 | 4.575 ug/l | 98 |
| 85) sec-Butylbenzene | 13.612 | 105 | 38148 | 4.663 ug/l | 98 |
| 86) p-Isopropyltoluene | 13.723 | 119 | 29856 | 4.584 ug/l | 98 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 20876 | 5.099 ug/l | 98 |
| 88) 1,4-Dichlorobenzene | 13.812 | 146 | 21982 | 5.179 ug/l | 97 |
| 89) n-Butylbenzene | 14.053 | 91 | 27437 | 4.675 ug/l | 96 |
| 90) Hexachloroethane | 14.329 | 117 | 7767 | 4.987 ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 20177 | 4.940 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.729 | 75 | 2872 | 5.232 ug/l | 90 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 9037 | 4.761 ug/l | 94 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 5563 | 5.520 ug/l | 98 |
| 95) Naphthalene | 15.641 | 128 | 25047 | 4.422 ug/l | 96 |
| 96) 1,2,3-Trichlorobenzene | 15.841 | 180 | 8737 | 4.549 ug/l | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

ICAL Form

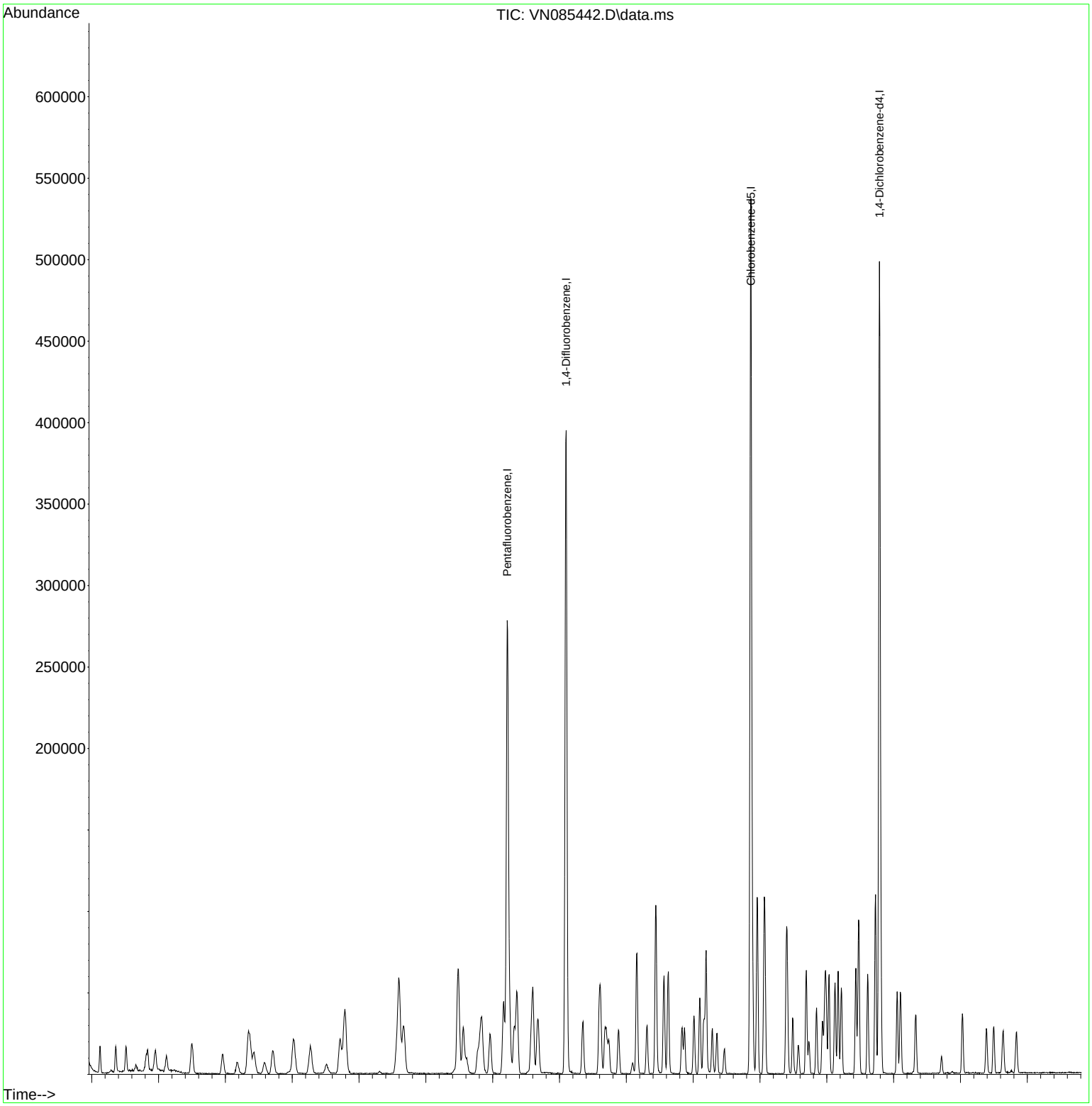
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

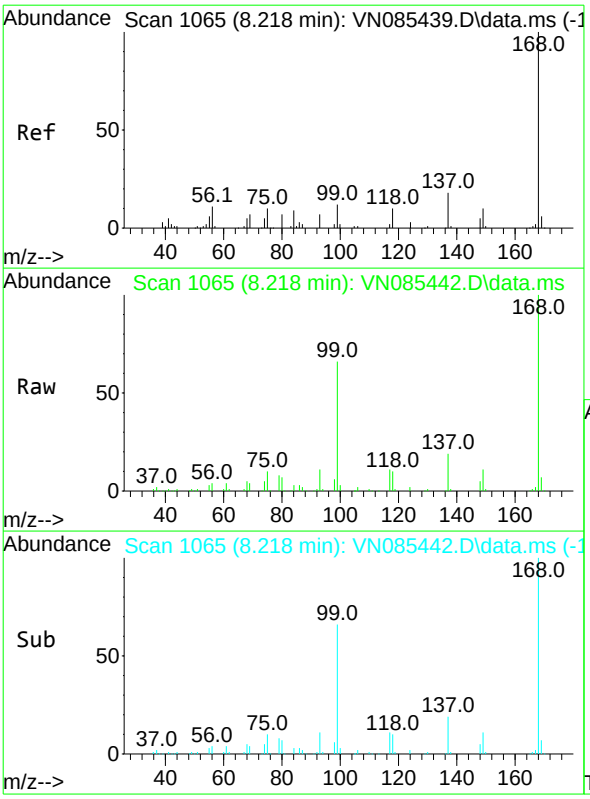
Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

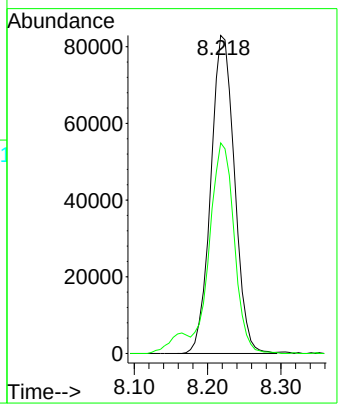
Tgt Ion:168 Resp: 186556

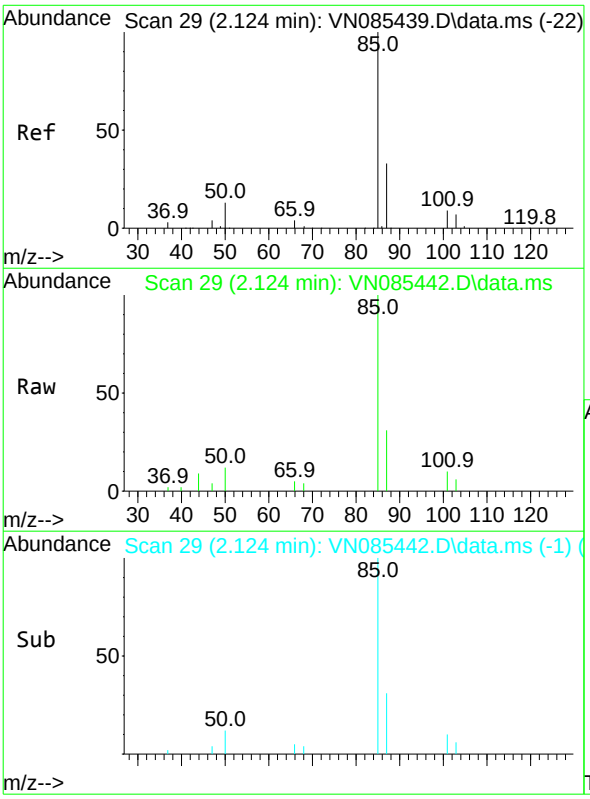
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.9 | 53.6 | 80.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

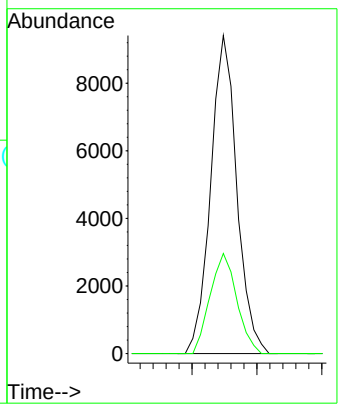


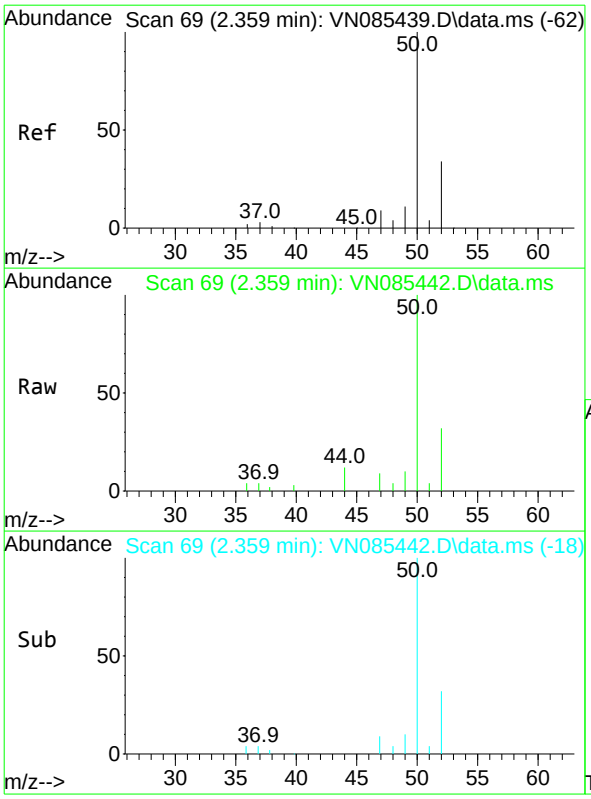




#2
Dichlorodifluoromethane
Concen: 5.225 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 85 Resp: 13199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.5 | 16.7 | 50.1 |






#3
Chloromethane
Concen: 5.311 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

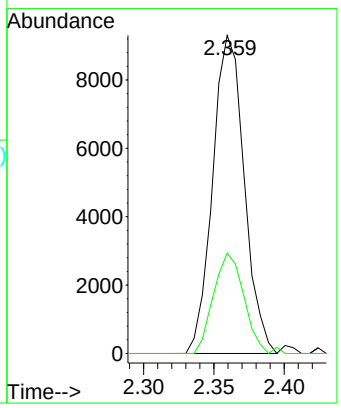
Tgt Ion: 50 Resp: 14526

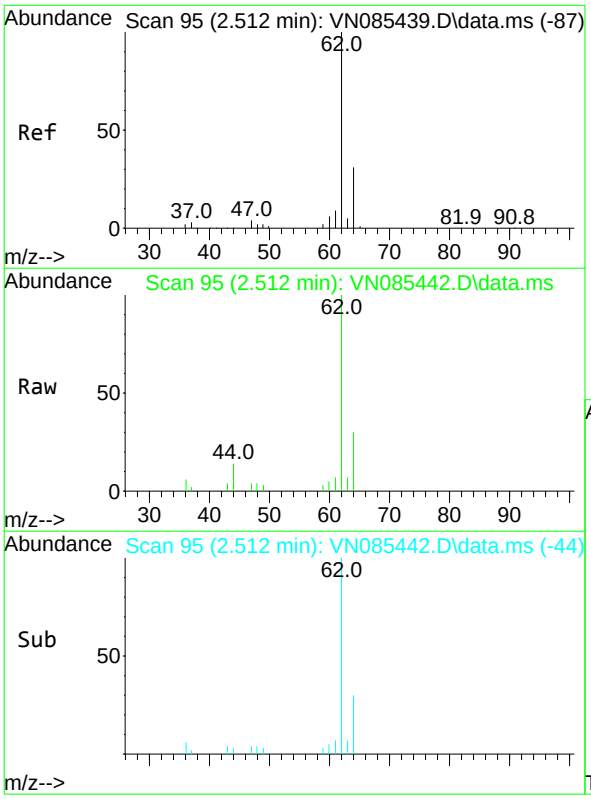
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.6 | 27.0 | 40.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

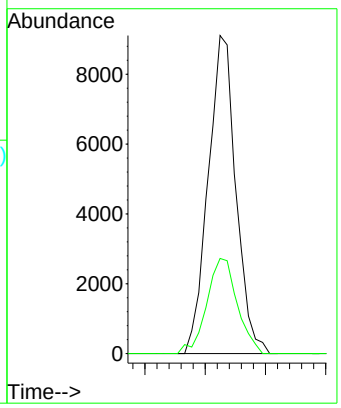


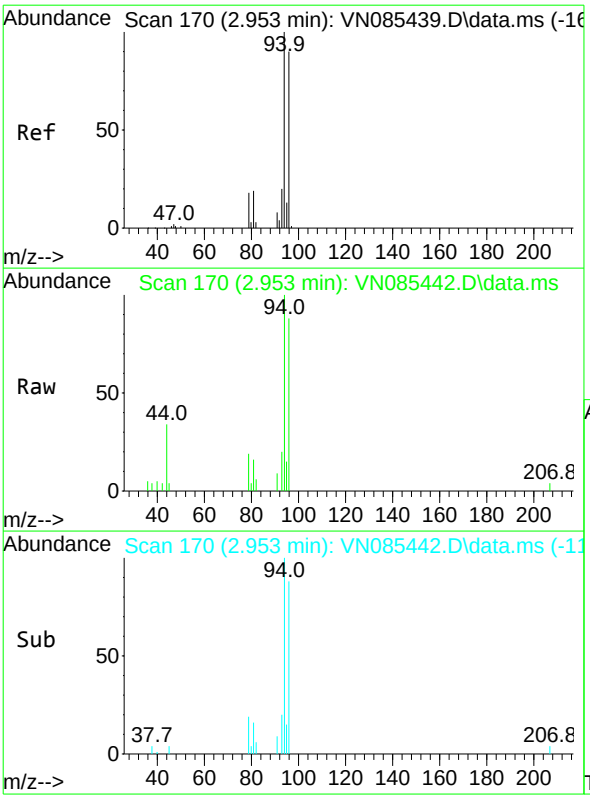




#4
Vinyl Chloride
Concen: 5.298 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 62 Resp: 14564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.9 | 24.8 | 37.2 |






#5
Bromomethane
Concen: 5.895 ug/l
RT: 2.953 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

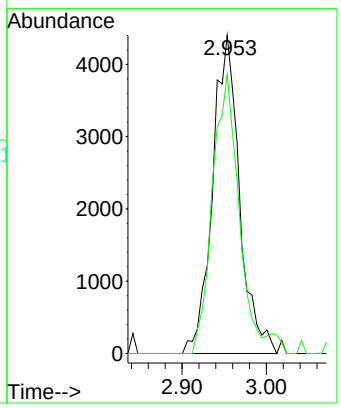
Tgt Ion: 94 Resp: 9788

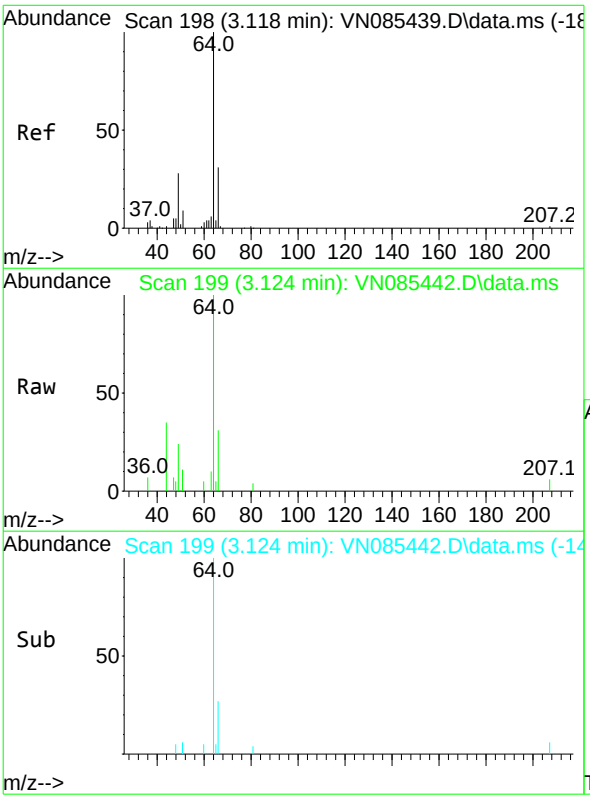
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 87.7 | 71.8 | 107.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

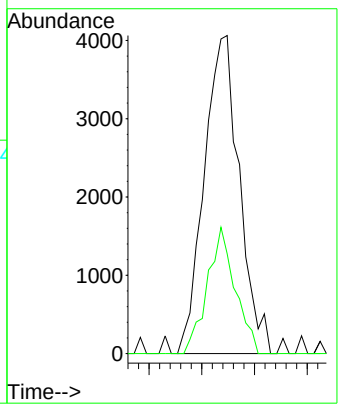


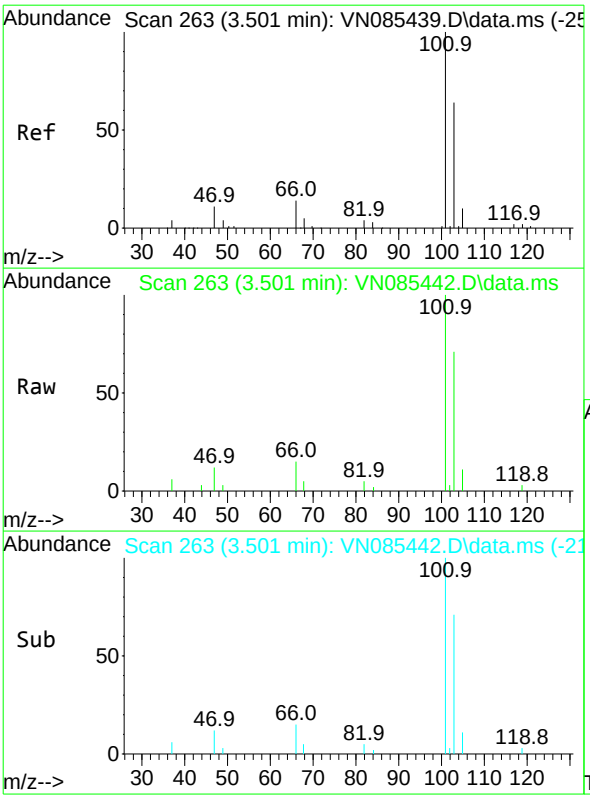




#6
Chloroethane
Concen: 5.411 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 64 Resp: 9430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.4 | 24.6 | 36.8 |






#7
Trichlorofluoromethane
Concen: 5.039 ug/l
RT: 3.501 min Scan# 26
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:101 Resp: 20098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 70.8 | 51.4 | 77.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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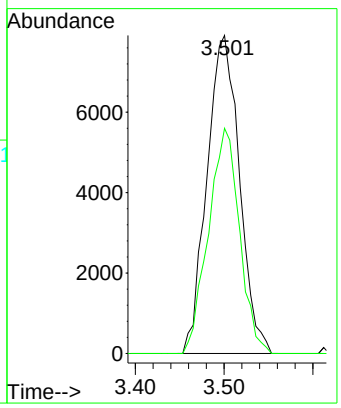
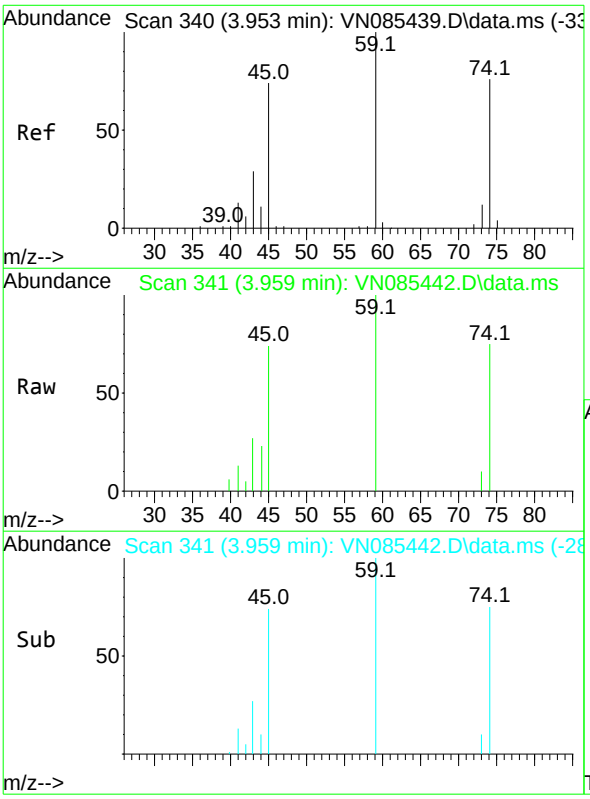
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

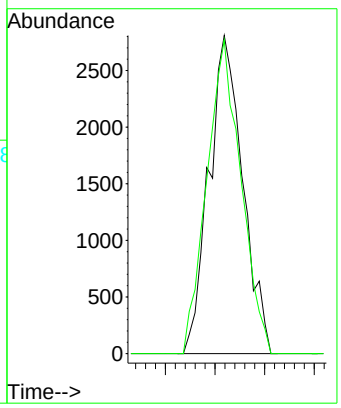


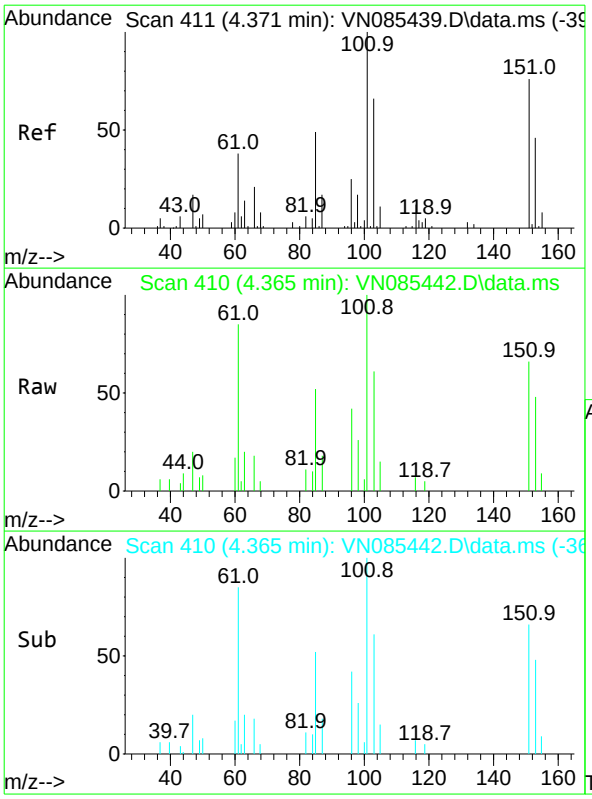




#8
Diethyl Ether
Concen: 4.828 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 74 Resp: 6652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 99.5 | 49.7 | 149.1 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.305 ug/l
RT: 4.365 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

Tgt Ion:101 Resp: 11917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.5 | 37.8 | 56.8 |
| 151 | 76.7 | 58.8 | 88.2 |

**Manual Integrations**
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Reviewed By :John Carlone 01/15/2025
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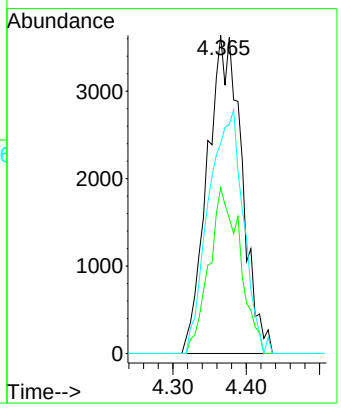
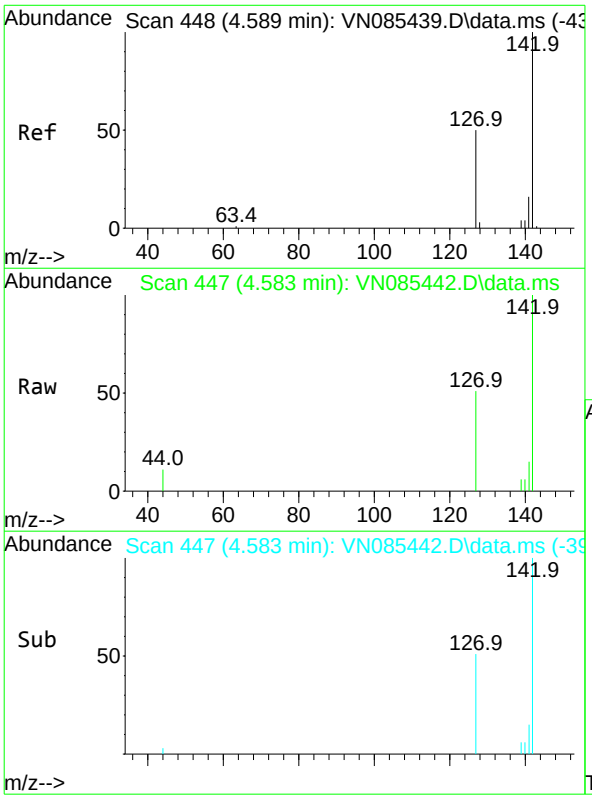
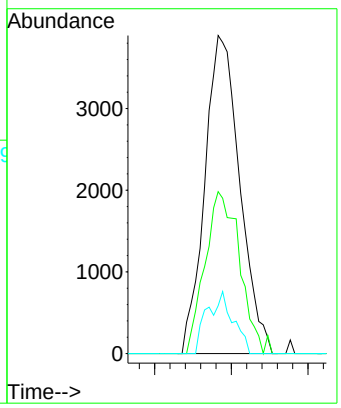


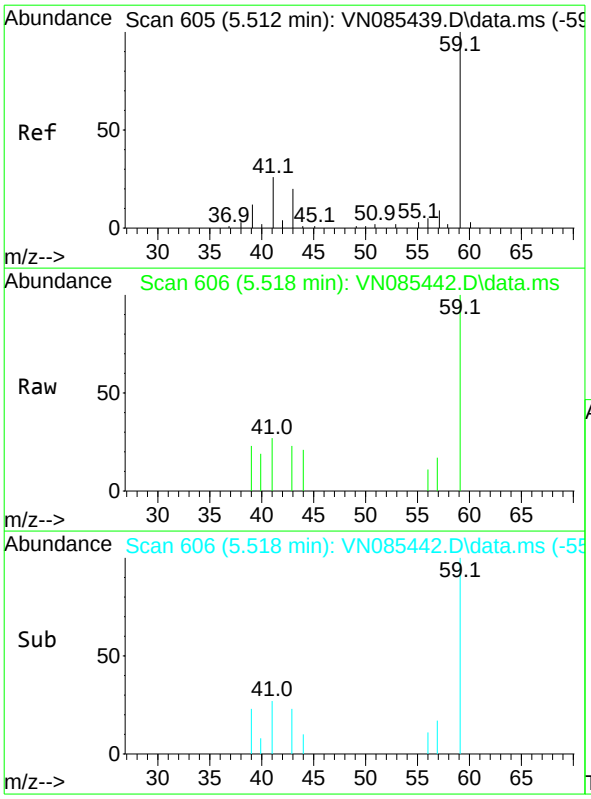




#10
Methyl Iodide
Concen: 4.793 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:142 Resp: 12331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 50.9 | 40.3 | 60.5 |
| 141 | 15.0 | 12.8 | 19.2 |






#11
Tert butyl alcohol
Concen: 26.318 ug/l
RT: 5.518 min Scan# 60
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

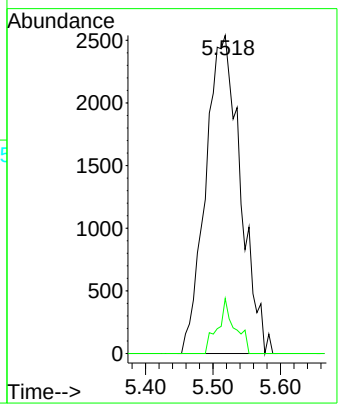
Tgt Ion: 59 Resp: 9075

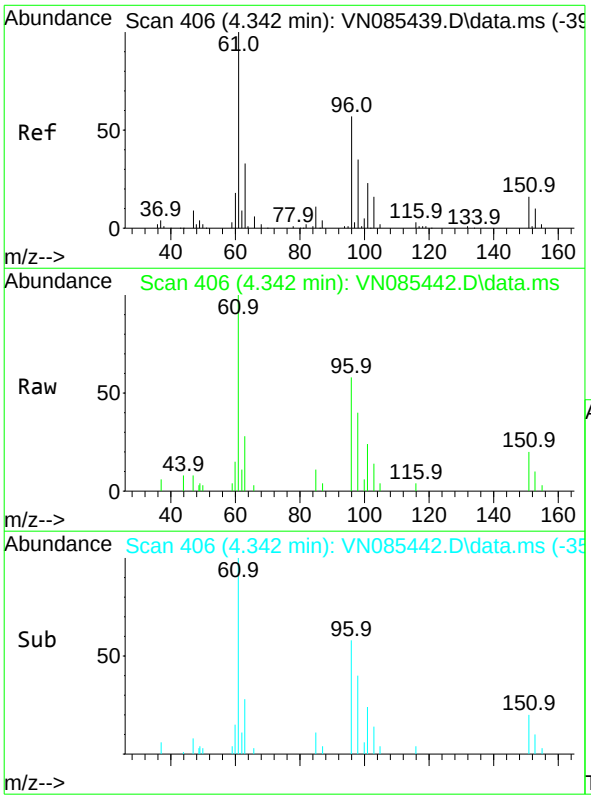
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.5 | 8.6 | 13.0# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

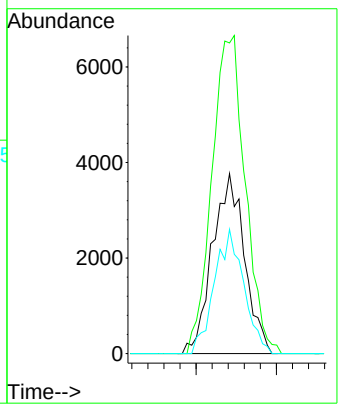


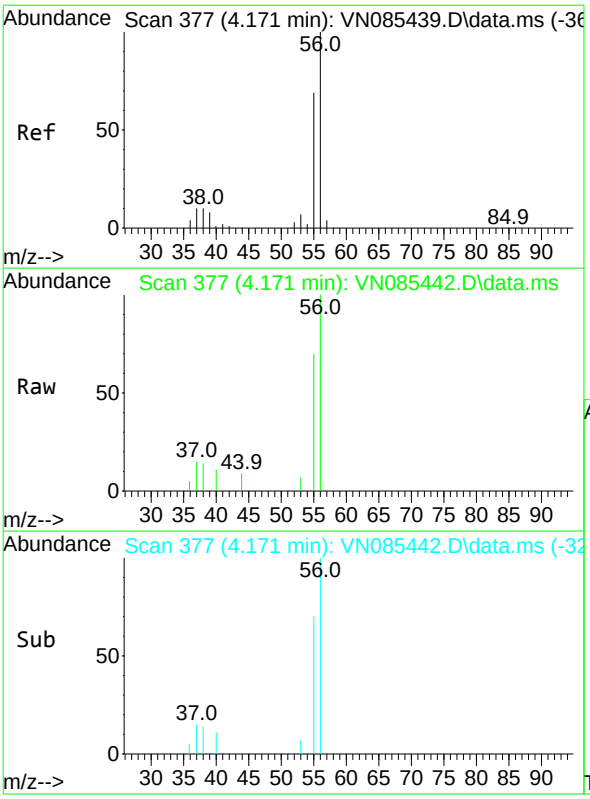




#12
1,1-Dichloroethene
Concen: 5.209 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 96 Resp: 10429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 172.7 | 141.0 | 211.4 |
| 98 | 69.0 | 49.0 | 73.6 |






#13
Acrolein
Concen: 20.033 ug/l
RT: 4.171 min Scan# 37
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

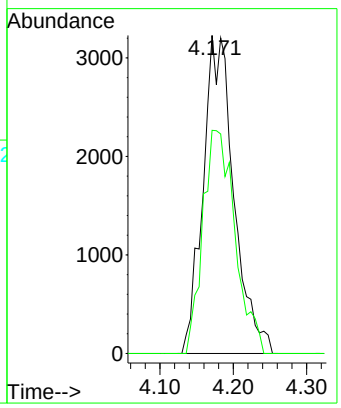
Tgt Ion: 56 Resp: 9430

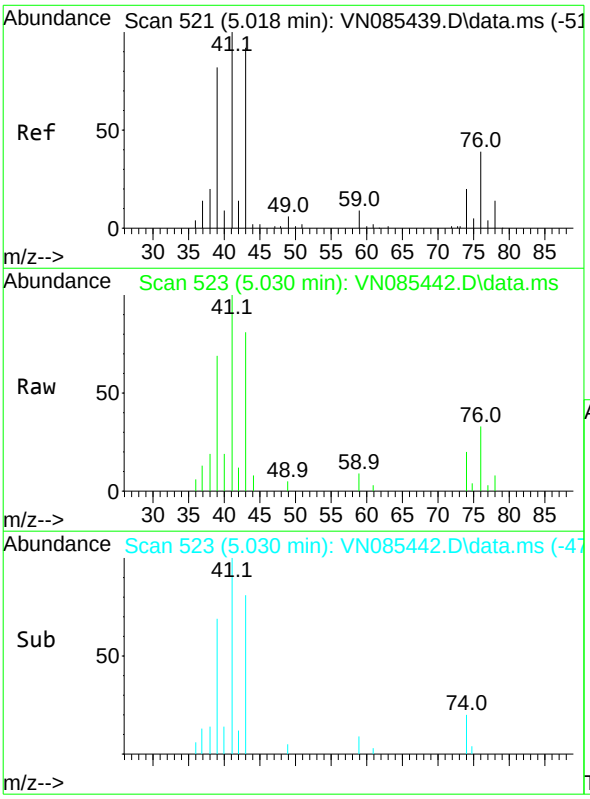
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 73.2 | 56.3 | 84.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

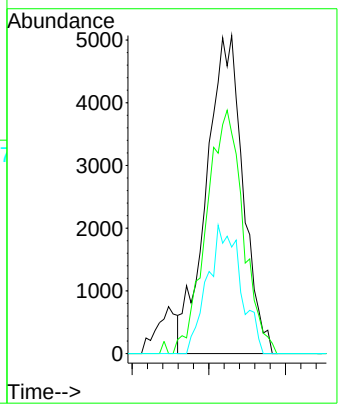


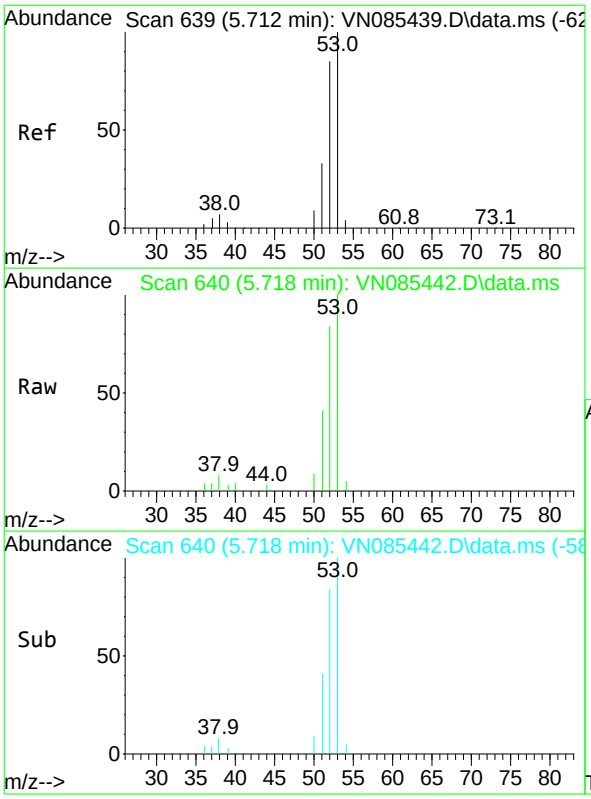




#14
Allyl chloride
Concen: 5.153 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 41 Resp: 16741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 77.4 | 64.4 | 96.6 |
| 76 | 36.6 | 30.5 | 45.7 |






#15
Acrylonitrile
Concen: 25.445 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 53 Resp: 27869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 85.5 | 65.5 | 98.3 |
| 51 | 38.5 | 29.8 | 44.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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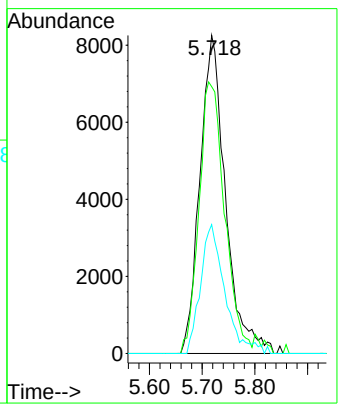
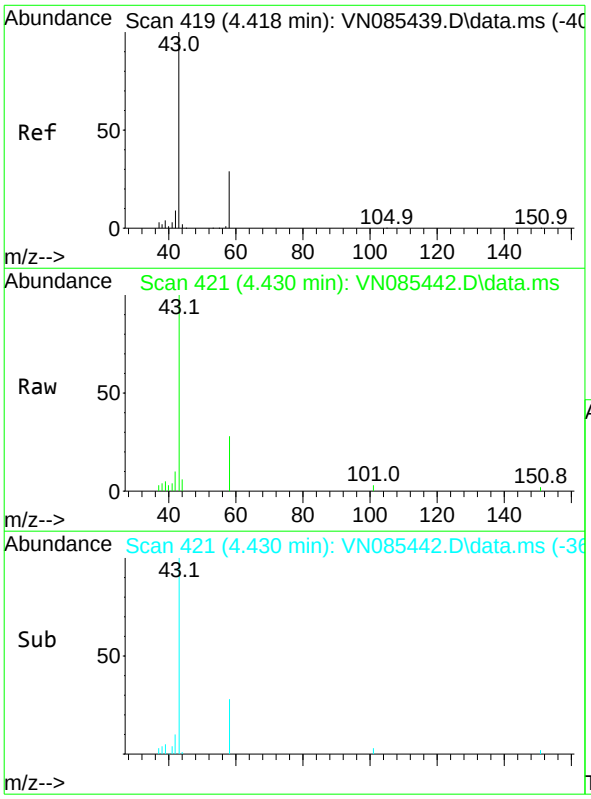
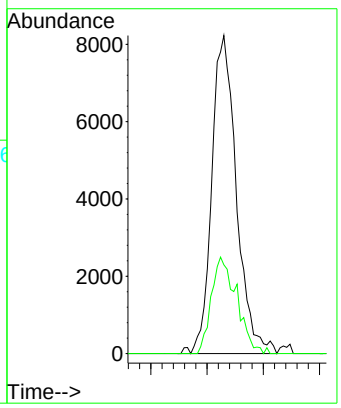


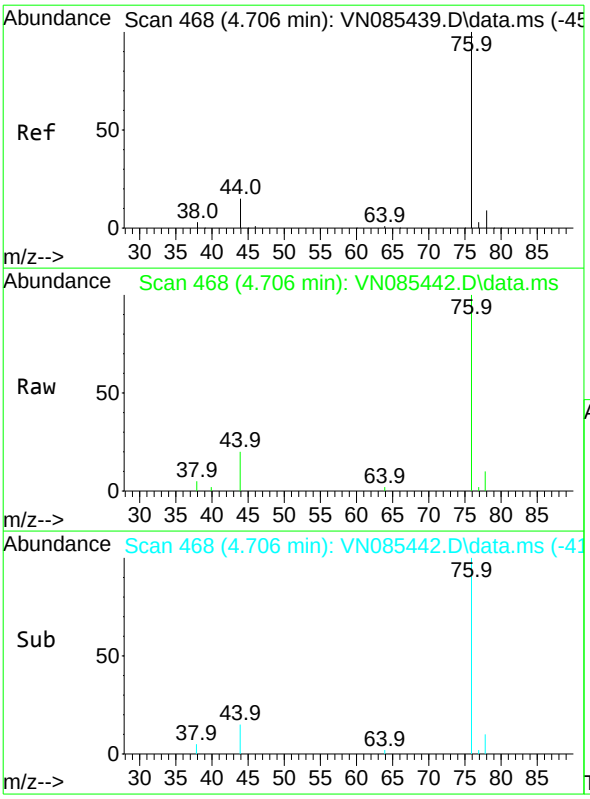




#16
Acetone
Concen: 25.819 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 25122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.9 | 23.8 | 35.6 |






#17
Carbon Disulfide
Concen: 5.202 ug/l
RT: 4.706 min Scan# 46
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 76 Resp: 32068

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

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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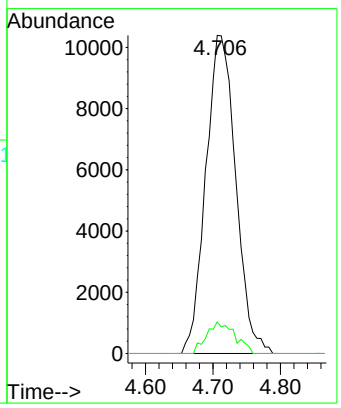
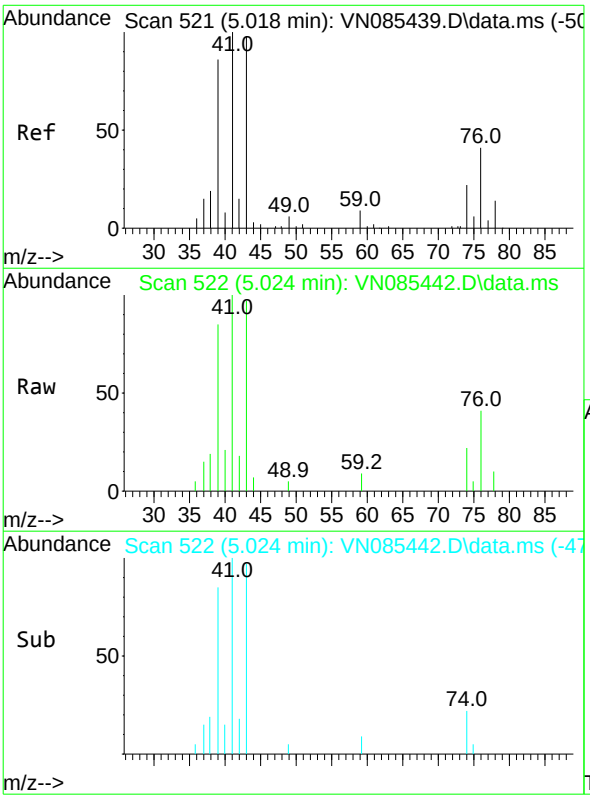
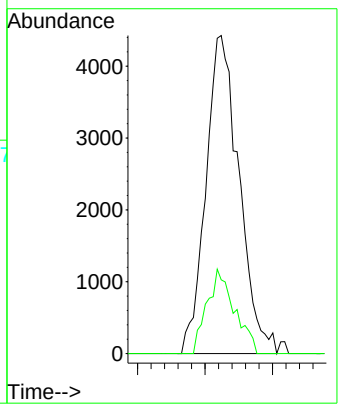


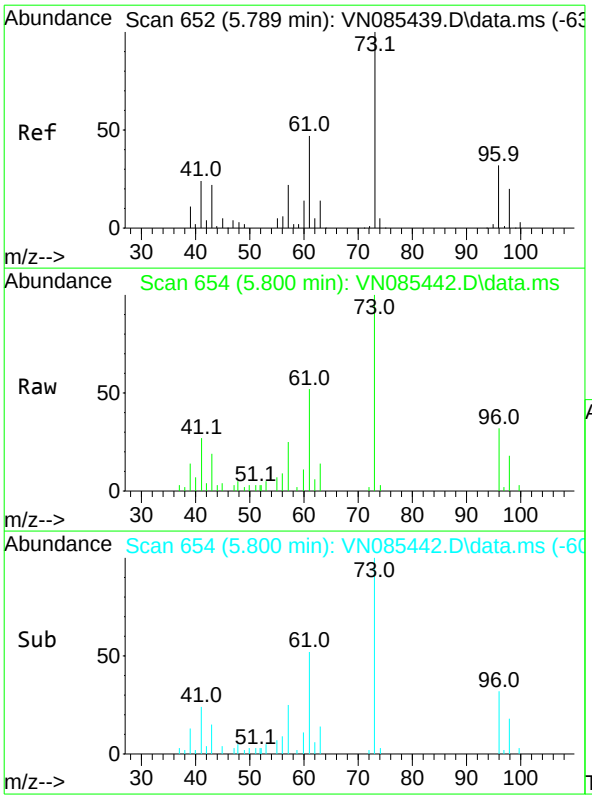




#18
Methyl Acetate
Concen: 5.106 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 15106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 22.0 | 18.6 | 28.0 |






#19
Methyl tert-butyl Ether
Concen: 4.836 ug/l
RT: 5.800 min Scan# 65
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 73 Resp: 31439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 25.2 | 17.8 | 26.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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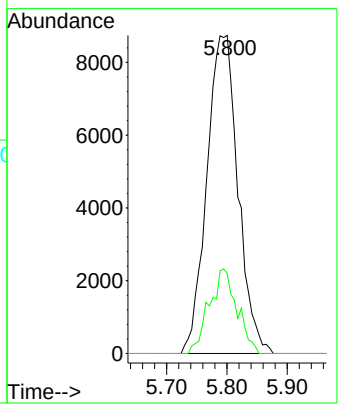
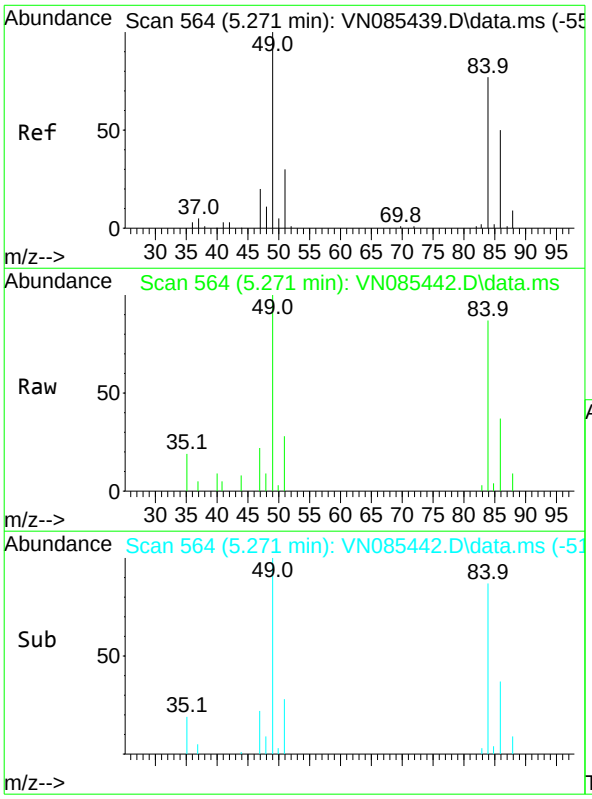
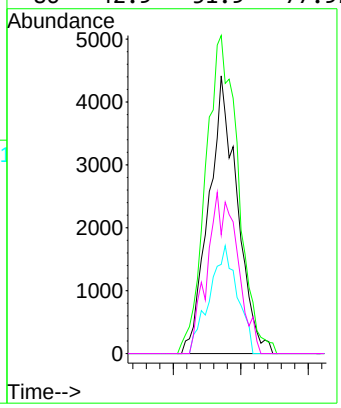


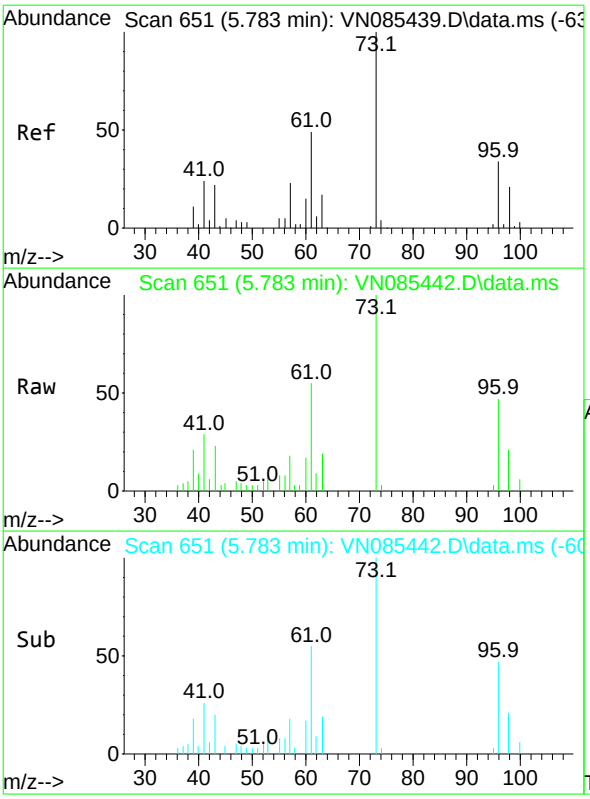




#20
Methylene Chloride
Concen: 5.389 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 84 Resp: 12981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 114.5 | 104.1 | 156.1 |
| 51 | 32.1 | 31.0 | 46.4 |
| 86 | 42.9 | 51.9 | 77.9# |






#21
trans-1,2-Dichloroethene
Concen: 4.960 ug/l
RT: 5.783 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

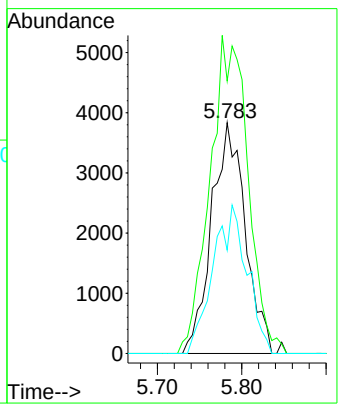
Tgt Ion: 96 Resp: 10614

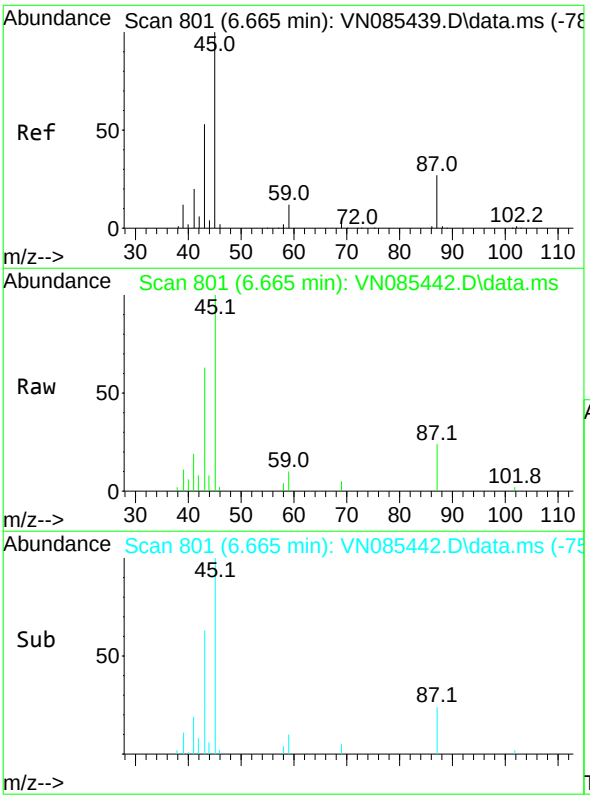
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 118.1 | 115.7 | 173.5 |
| 98 | 44.7 | 49.8 | 74.8# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

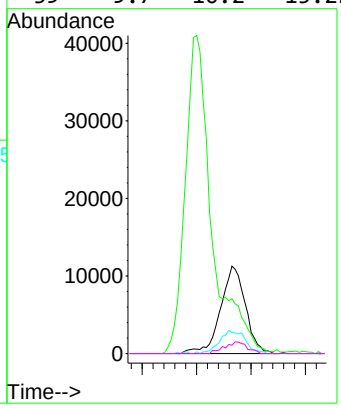


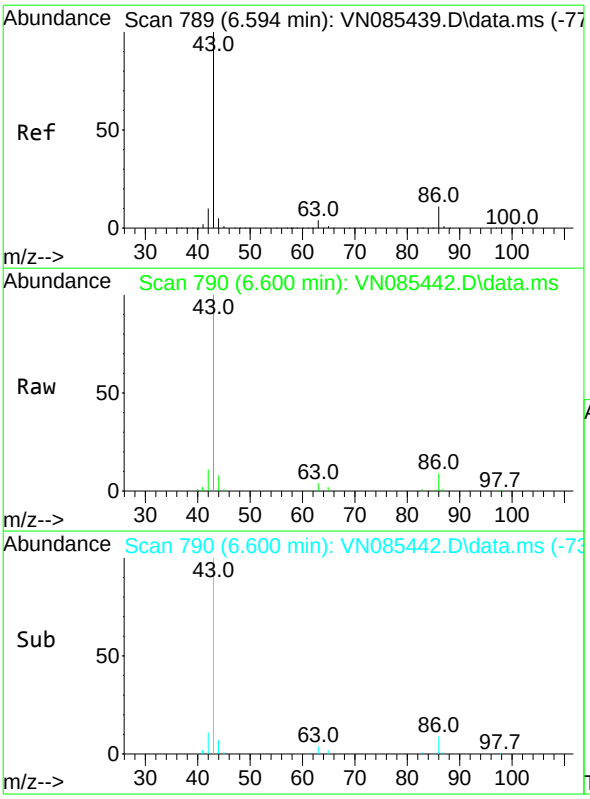




#22
Diisopropyl ether
Concen: 4.962 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 45 Resp: 35785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 58.3 | 45.0 | 67.6 |
| 87 | 24.2 | 21.8 | 32.8 |
| 59 | 9.7 | 10.2 | 15.2# |






#23
Vinyl Acetate
Concen: 23.389 ug/l m
RT: 6.600 min Scan# 79
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

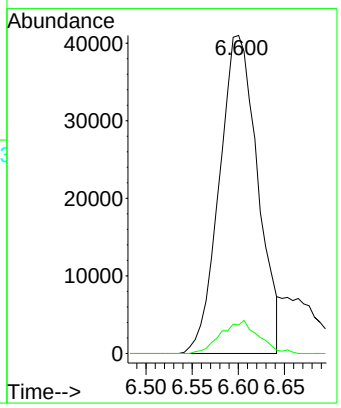
Tgt Ion: 43 Resp: 118439

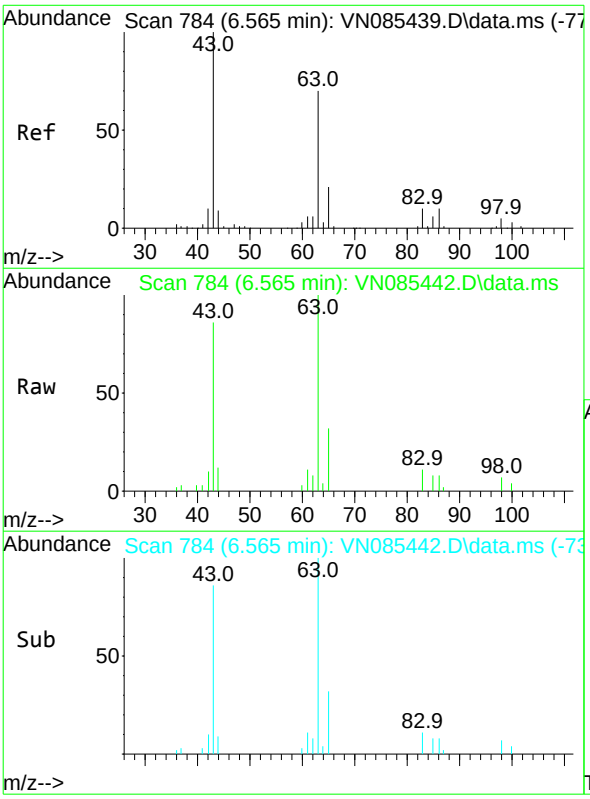
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.0 | 8.4 | 12.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

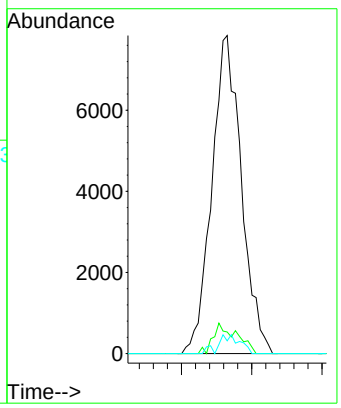


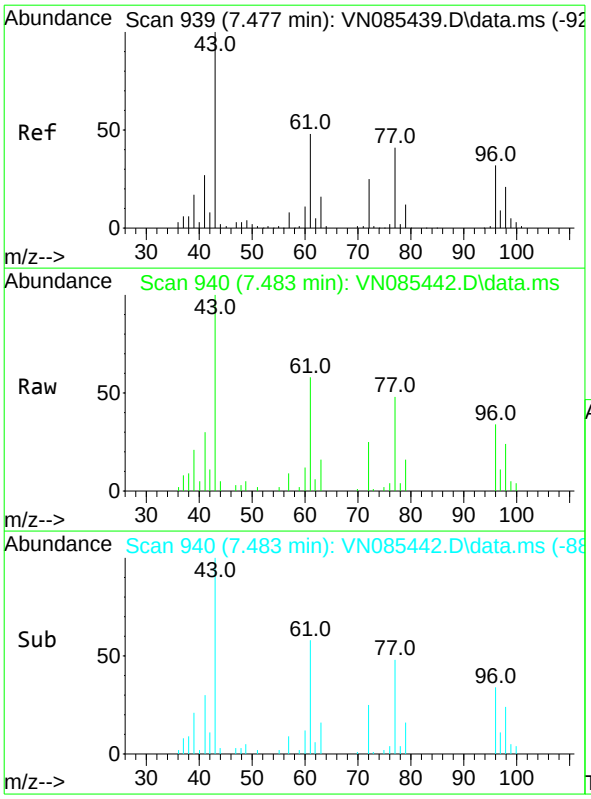




#24
1,1-Dichloroethane
Concen: 5.200 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 63 Resp: 22865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.8 | 3.3 | 9.8 |
| 100 | 4.0 | 2.0 | 6.0 |






#25
2-Butanone
Concen: 25.231 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

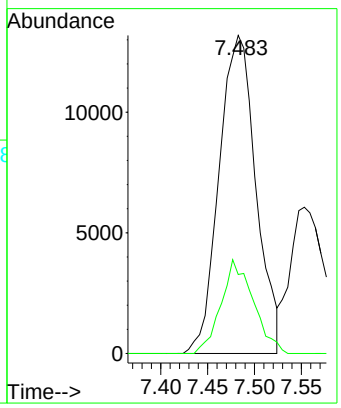
Tgt Ion: 43 Resp: 36127

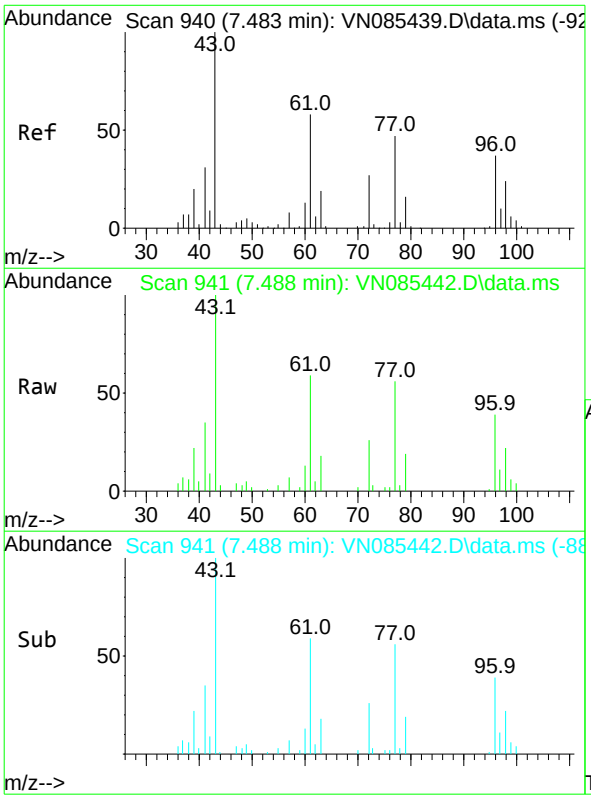
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.9 | 20.2 | 30.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

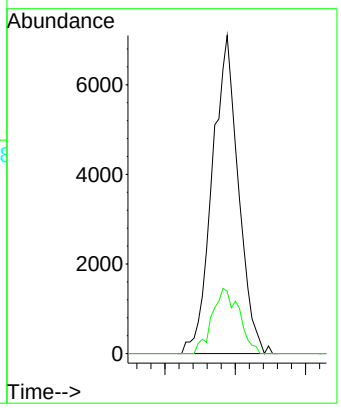


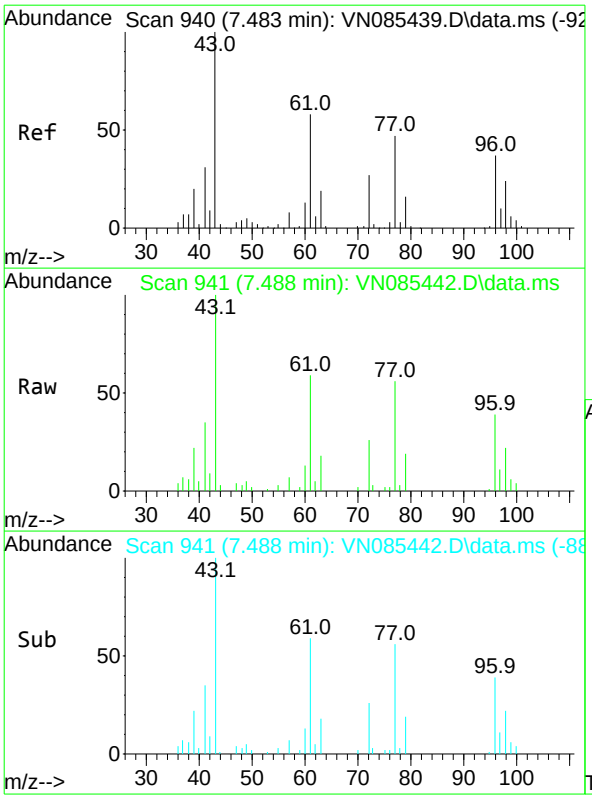




#26
2,2-Dichloropropane
Concen: 5.175 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 77 Resp: 18398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.2 | 10.7 | 32.1 |






#27
cis-1,2-Dichloroethene
Concen: 4.951 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 96 Resp: 12477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 154.5 | 0.0 | 311.8 |
| 98 | 62.8 | 0.0 | 126.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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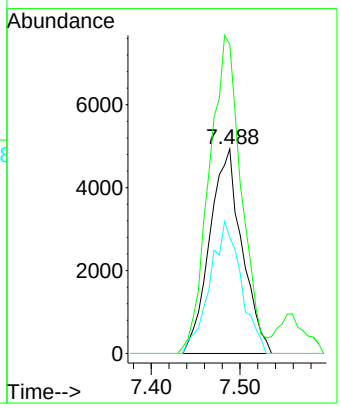
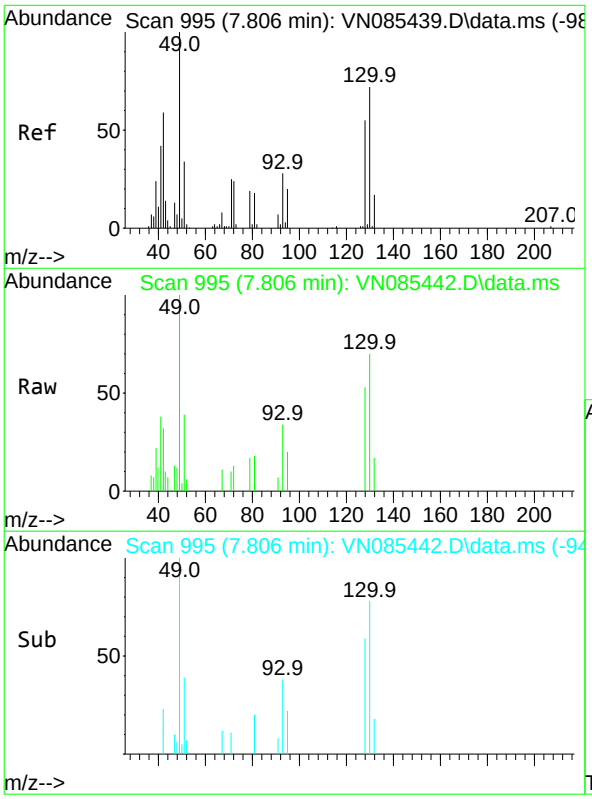
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

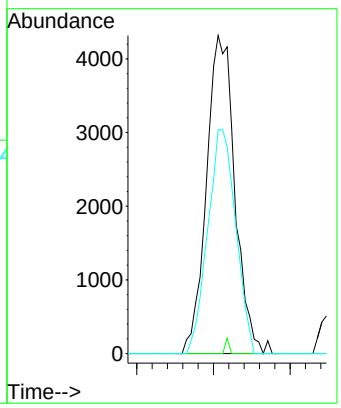


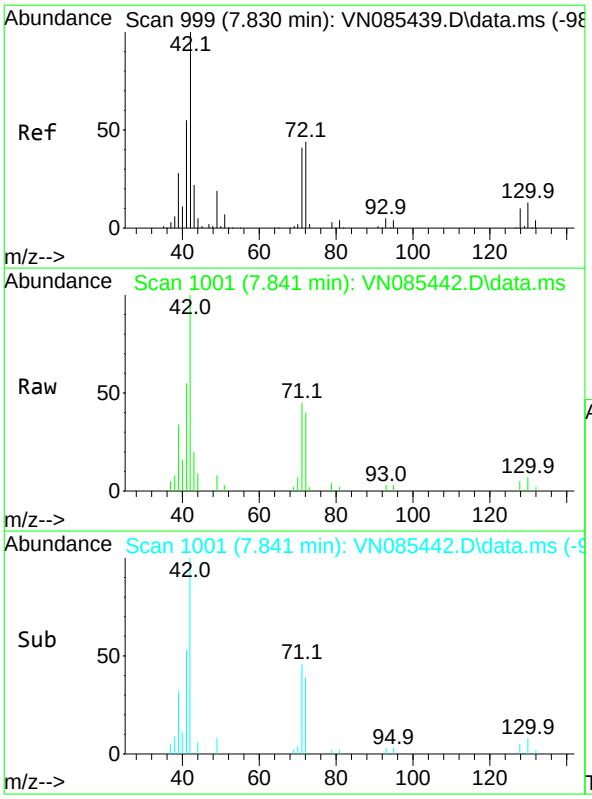




#28
Bromochloromethane
Concen: 5.424 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 49 Resp: 11096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.7 | 0.0 | 4.4 |
| 130 | 69.5 | 55.0 | 82.4 |






#29
Tetrahydrofuran
Concen: 24.215 ug/l
RT: 7.841 min Scan# 10
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

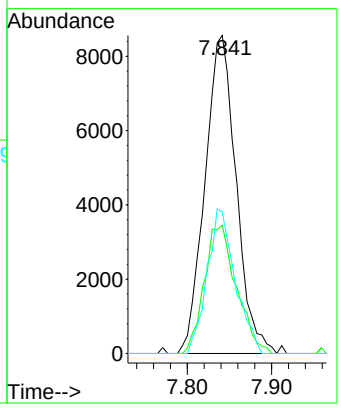
Tgt Ion: 42 Resp: 21983

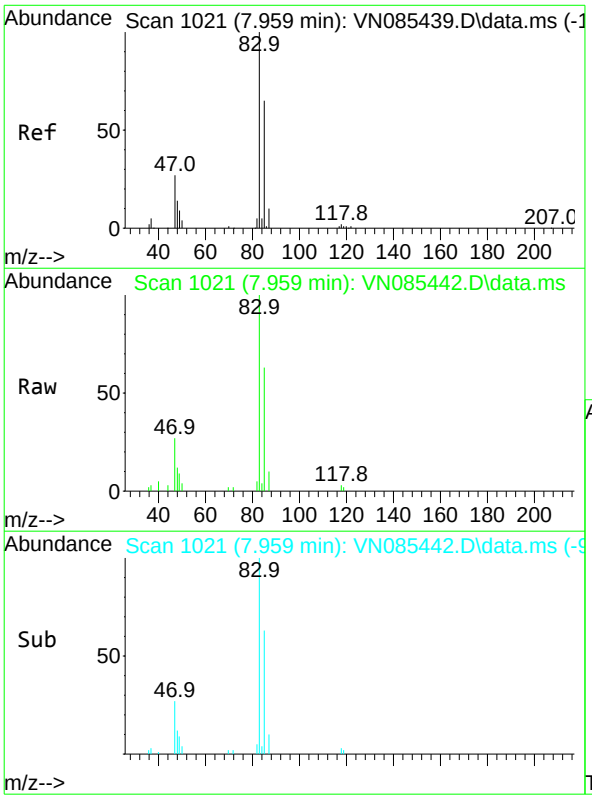
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.5 | 34.2 | 51.2 |
| 71 | 41.0 | 32.5 | 48.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

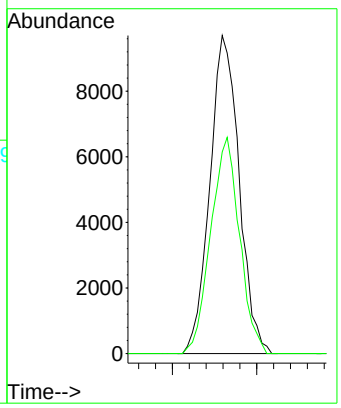


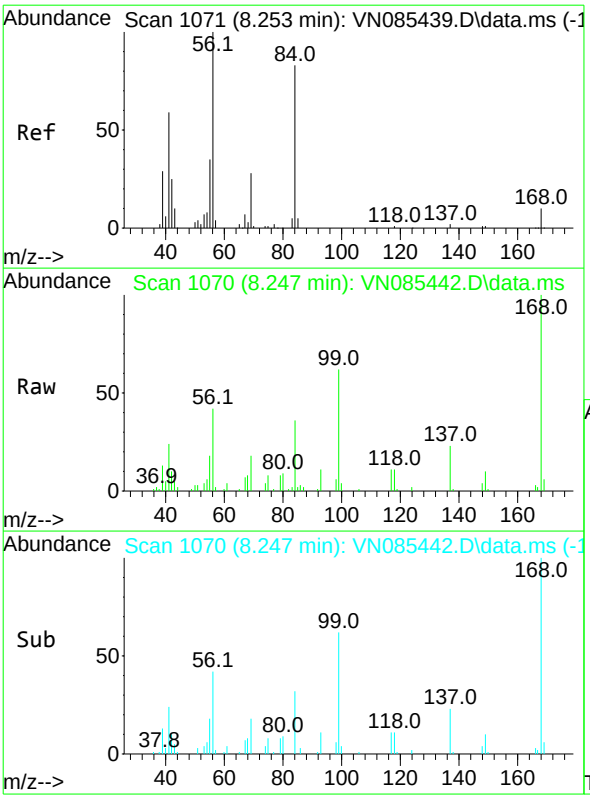




#30
Chloroform
Concen: 5.146 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 83 Resp: 23384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.4 | 51.8 | 77.6 |






#31
Cyclohexane
Concen: 5.846 ug/l
RT: 8.247 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

Tgt Ion: 56 Resp: 22343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 42.3 | 22.2 | 33.4# |
| 84 | 84.3 | 66.4 | 99.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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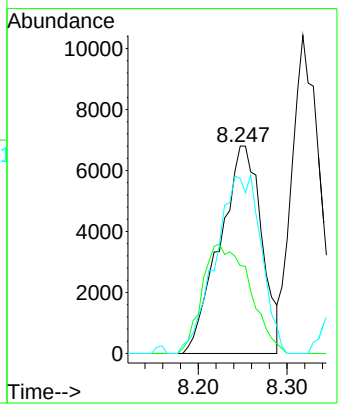
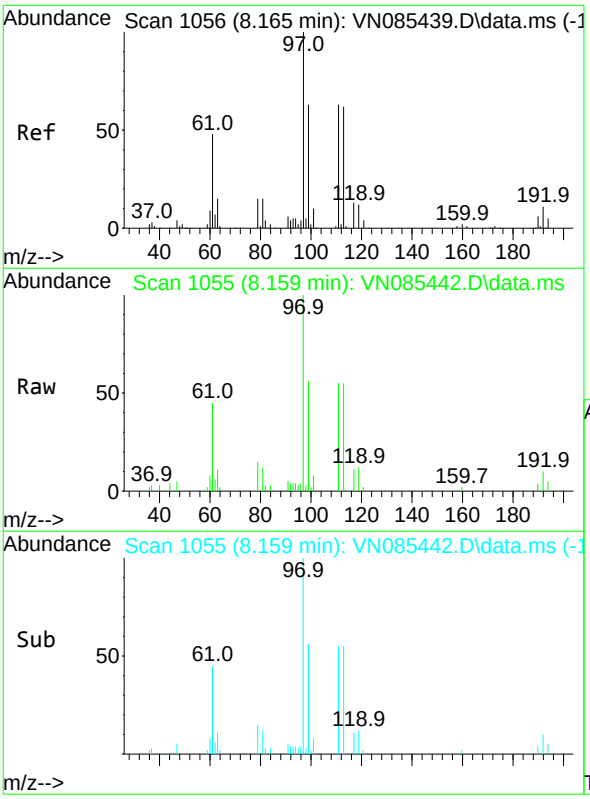
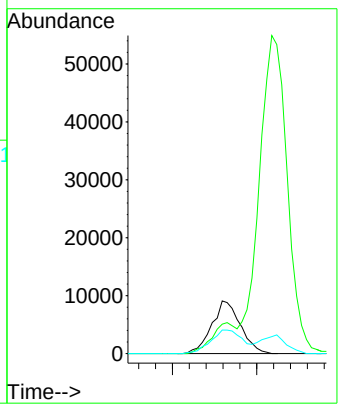


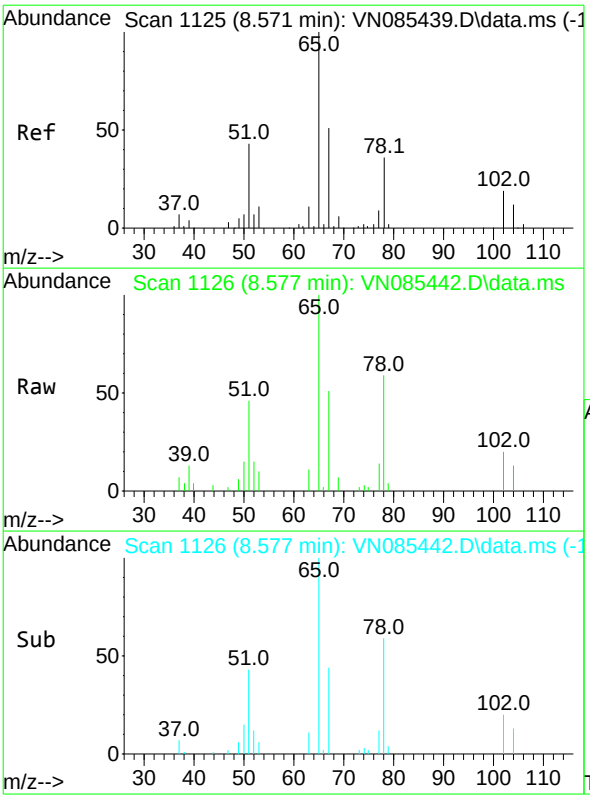




#32
1,1,1-Trichloroethane
Concen: 5.372 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 97 Resp: 21416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 50.5 | 49.8 | 74.6 |
| 61 | 50.1 | 41.4 | 62.2 |






#33
1,2-Dichloroethane-d4
Concen: 5.660 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

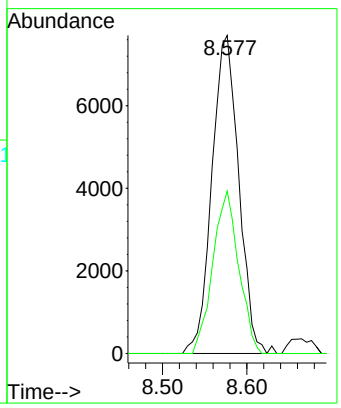
Tgt Ion: 65 Resp: 17046

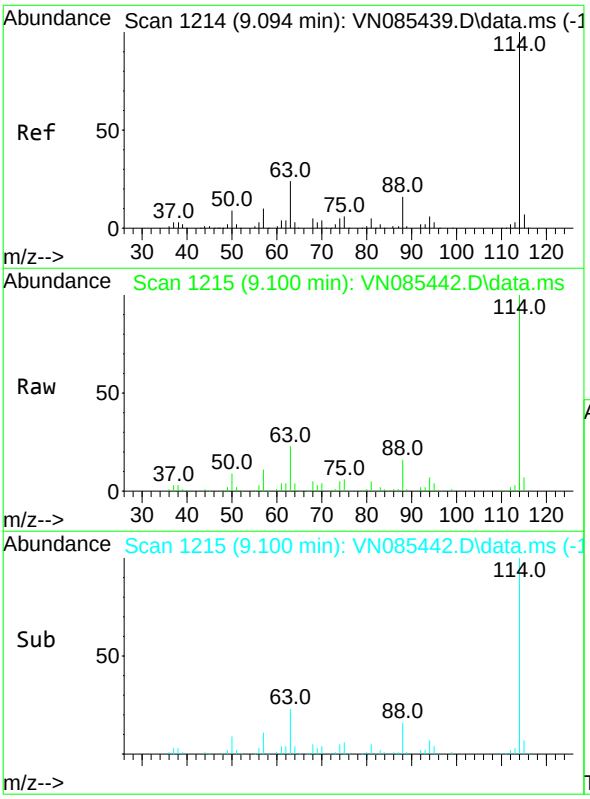
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.2 | 0.0 | 101.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

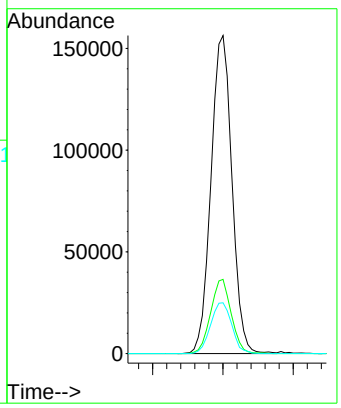


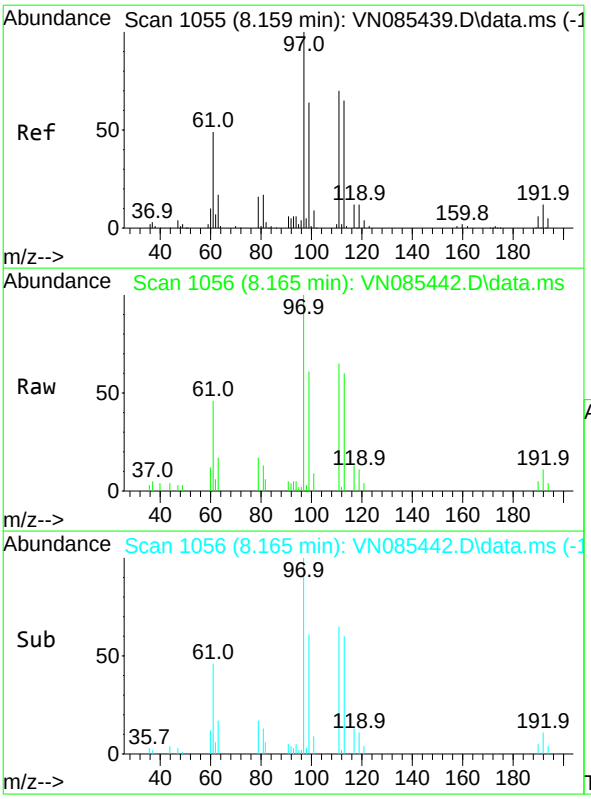




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:114 Resp: 324413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.3 | 0.0 | 47.6 |
| 88 | 16.0 | 0.0 | 32.6 |






#35
Dibromofluoromethane
Concen: 5.377 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

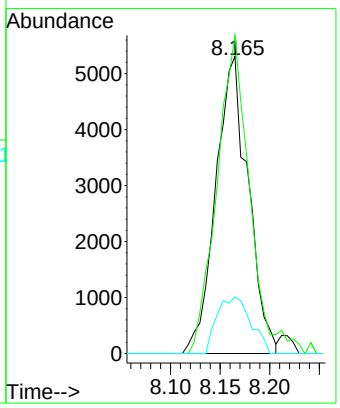
Tgt Ion:113 Resp: 12102

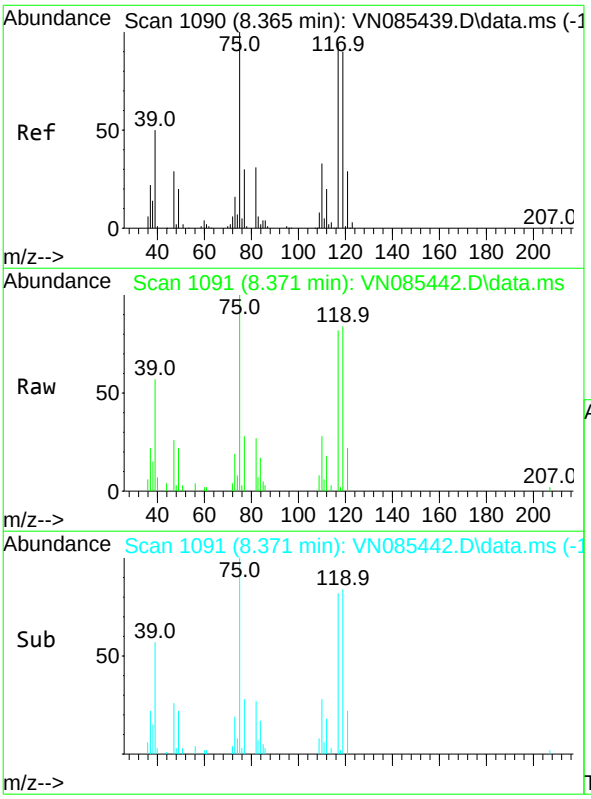
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 107.4 | 82.7 | 124.1 |
| 192 | 19.7 | 14.3 | 21.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

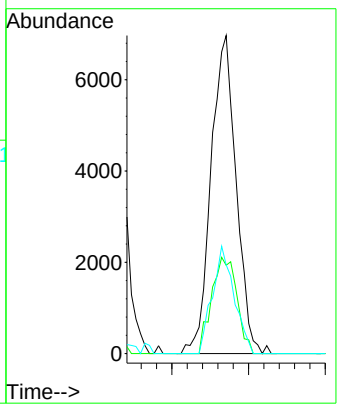


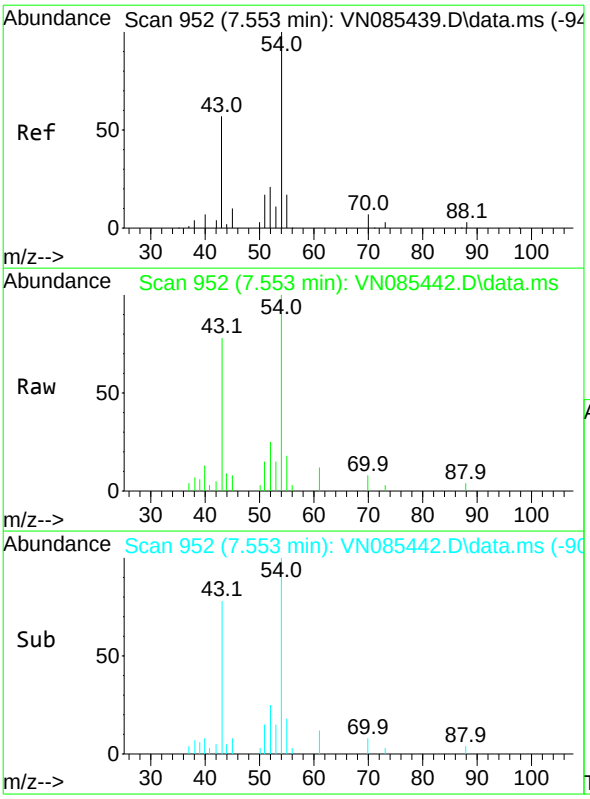




#36
1,1-Dichloropropene
Concen: 5.029 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 15886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 30.3 | 16.5 | 49.5 |
| 77 | 29.2 | 24.4 | 36.6 |






#37
Ethyl Acetate
Concen: 5.294 ug/l m
RT: 7.553 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

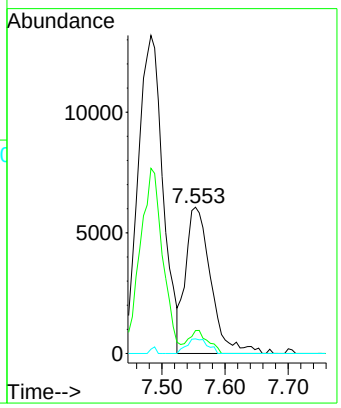
Tgt Ion: 43 Resp: 16879

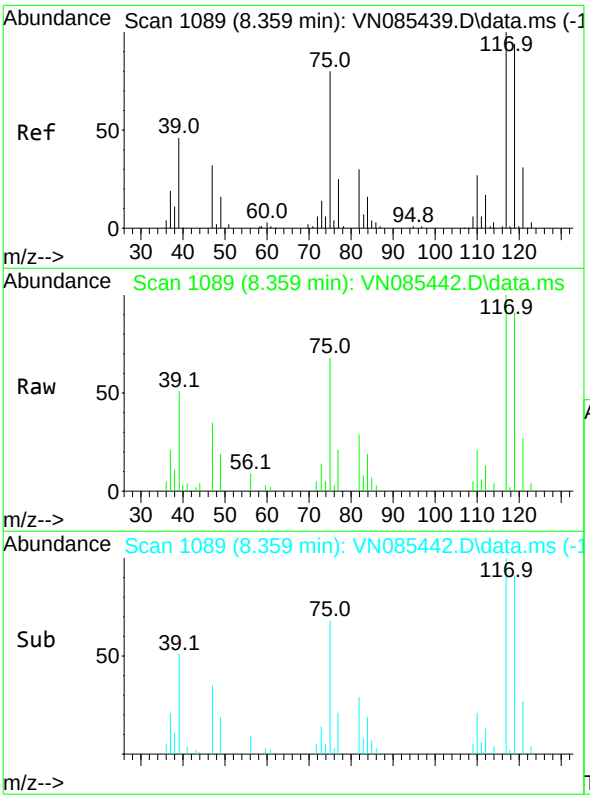
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 12.3 | 10.9 | 16.3 |
| 70 | 8.4 | 7.5 | 11.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

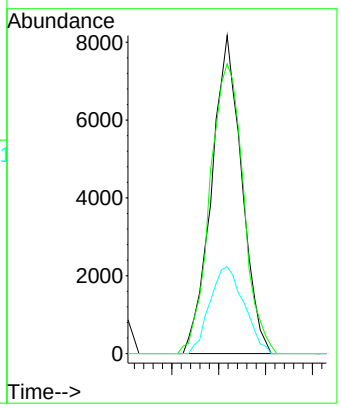


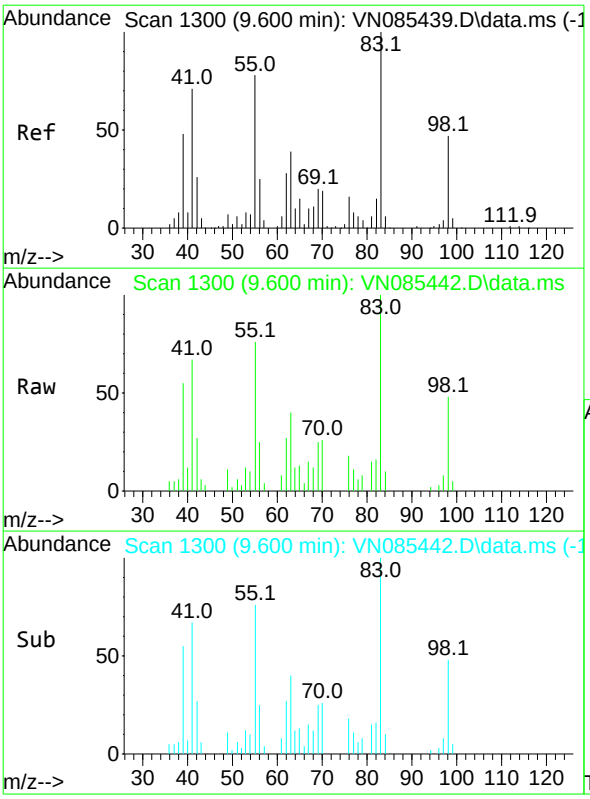




#38
Carbon Tetrachloride
Concen: 5.065 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:117 Resp: 18317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.1 | 75.4 | 113.2 |
| 121 | 27.3 | 24.6 | 37.0 |






#39
Methylcyclohexane
Concen: 4.776 ug/l
RT: 9.600 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

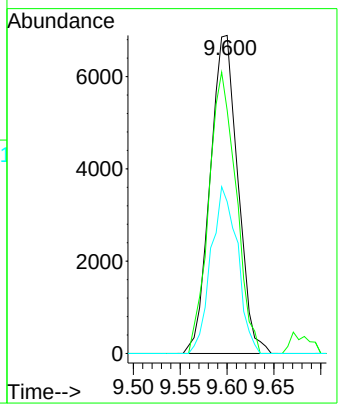
Tgt Ion: 83 Resp: 14175

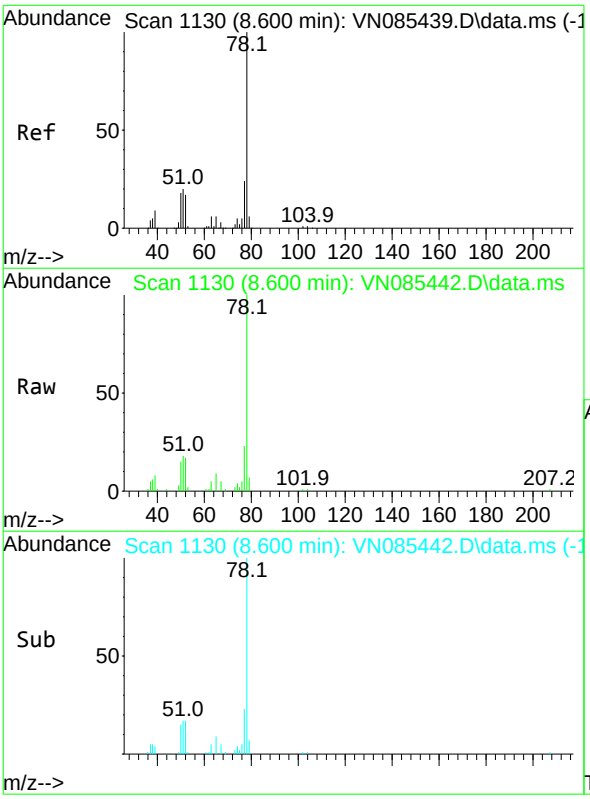
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.5 | 62.6 | 94.0 |
| 98 | 47.7 | 37.7 | 56.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

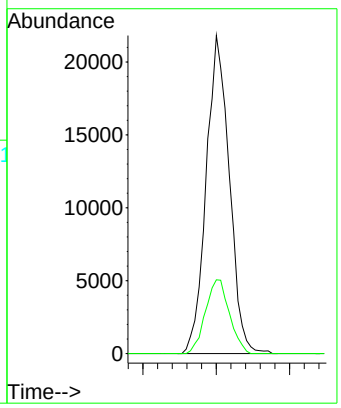


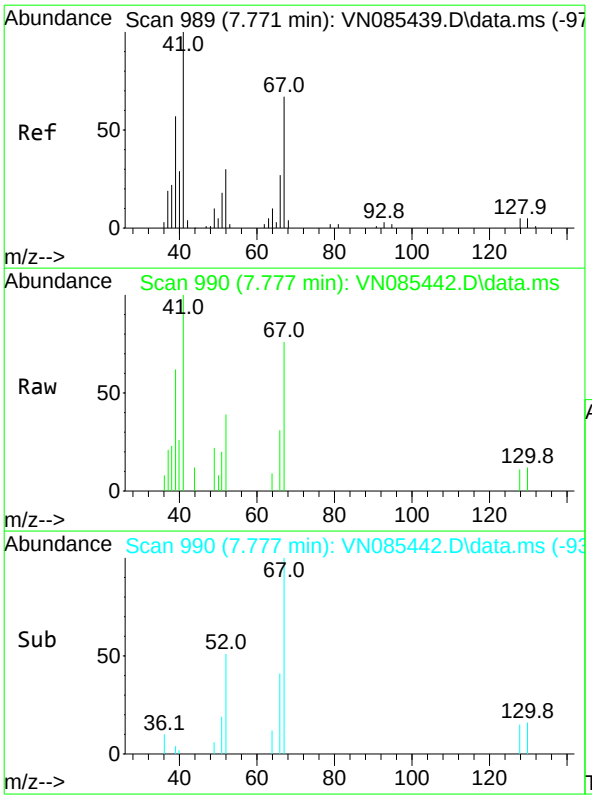




#40
Benzene
Concen: 5.040 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 78 Resp: 47833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.2 | 19.0 | 28.6 |

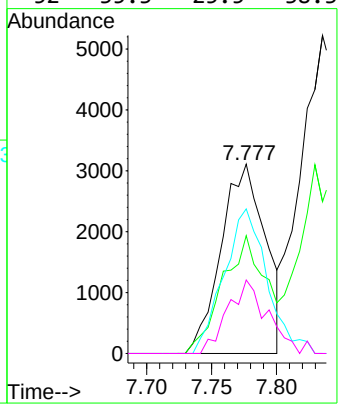





#41
Methacrylonitrile
Concen: 4.449 ug/l
RT: 7.777 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 41 Resp: 7380

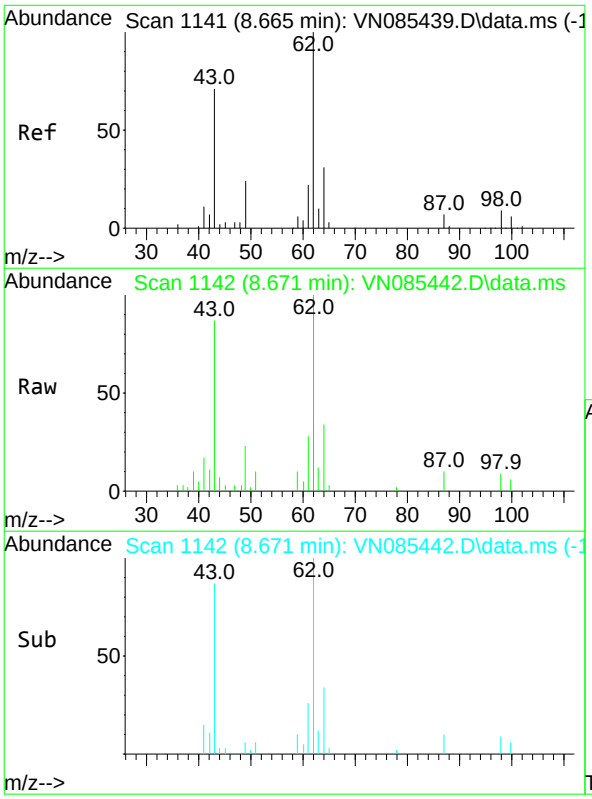
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.5 | 46.0 | 69.0 |
| 67 | 74.6 | 57.4 | 86.2 |
| 52 | 35.3 | 25.5 | 38.3 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

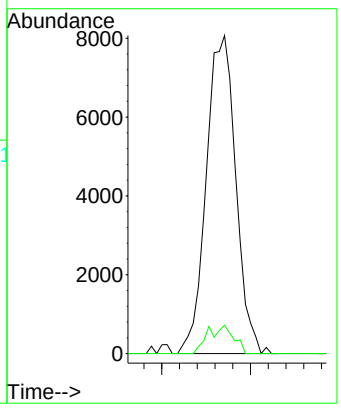
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

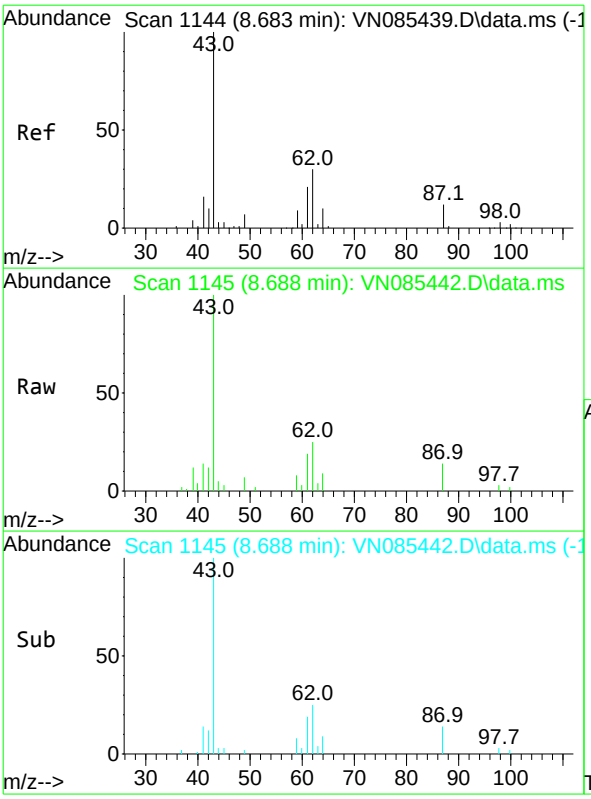



#42
1,2-Dichloroethane
Concen: 5.211 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 62 Resp: 18628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.8 | 0.0 | 17.0 |






#43
Isopropyl Acetate
Concen: 4.853 ug/l
RT: 8.688 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

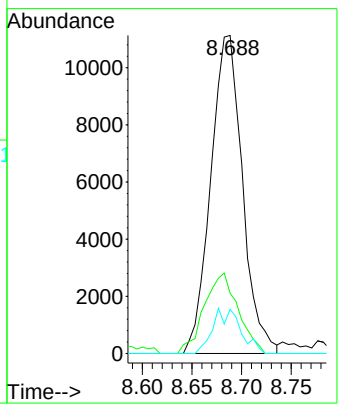
Tgt Ion: 43 Resp: 24792

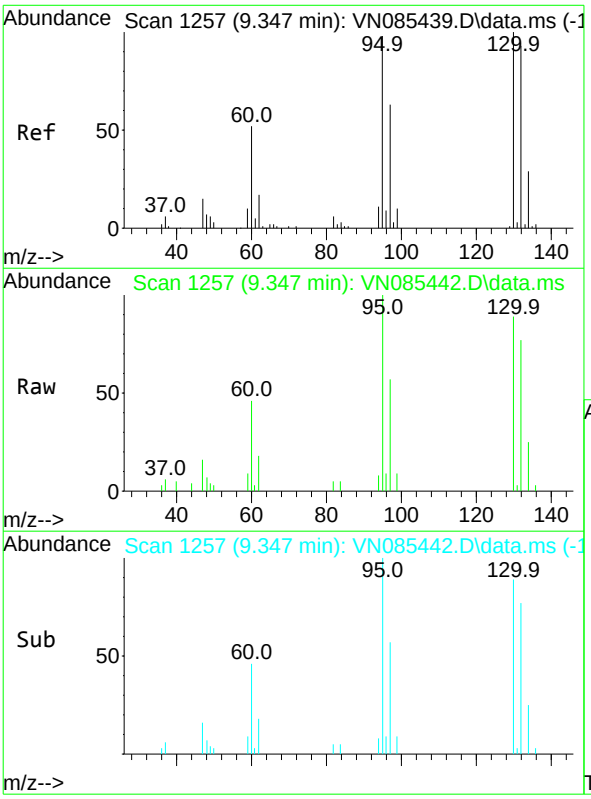
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 27.0 | 20.7 | 31.1 |
| 87 | 12.3 | 9.8 | 14.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

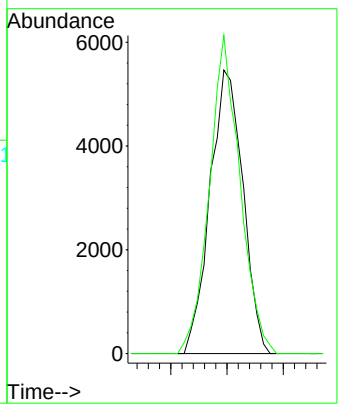


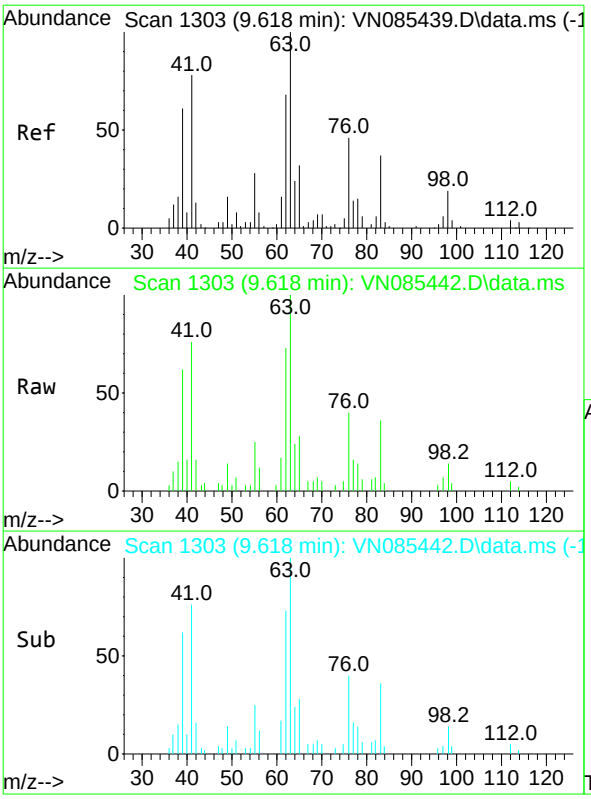




#44
Trichloroethene
Concen: 5.039 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:130 Resp: 11133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 112.2 | 0.0 | 195.8 |






#45
1,2-Dichloropropane
Concen: 5.194 ug/l
RT: 9.618 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 63 Resp: 12591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 27.8 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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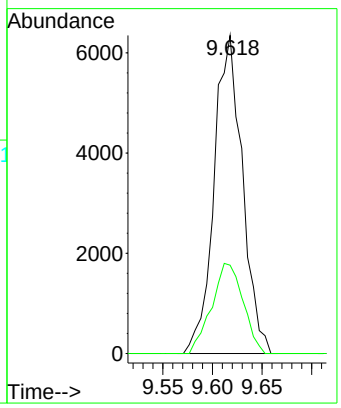
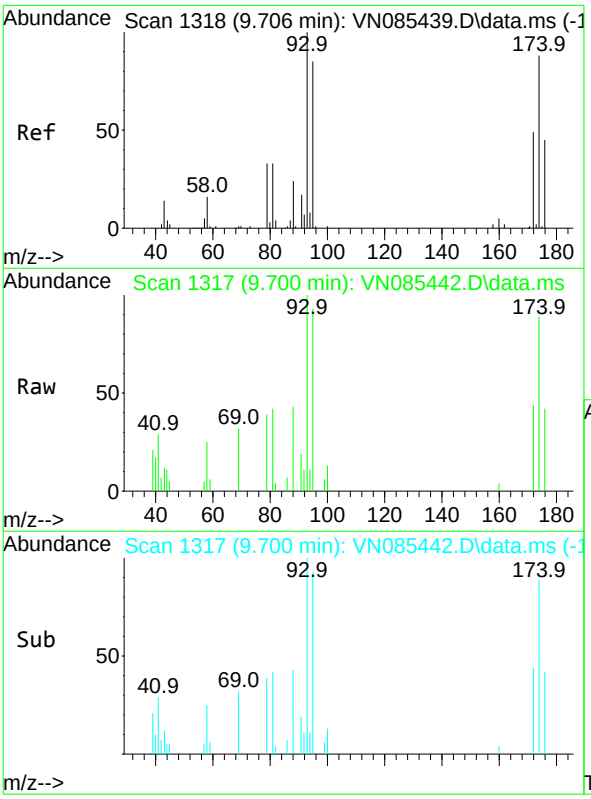
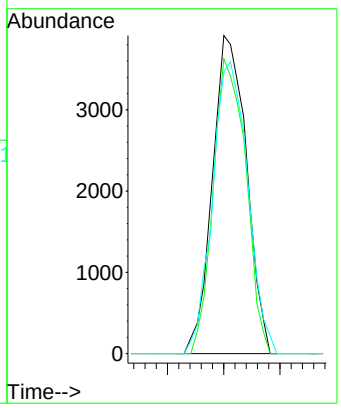


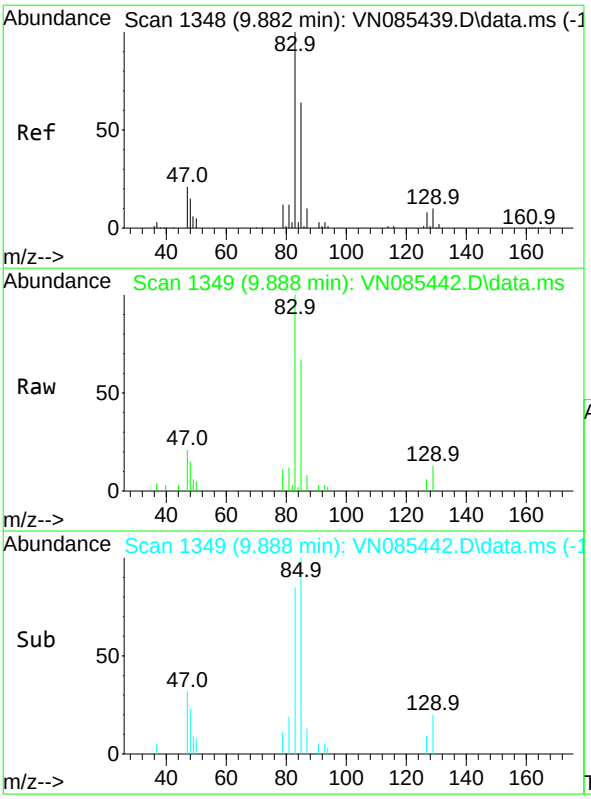




#46
Dibromomethane
Concen: 4.705 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 93 Resp: 8230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 88.7 | 64.7 | 97.1 |
| 174 | 95.0 | 69.0 | 103.4 |






#47
Bromodichloromethane
Concen: 5.179 ug/l
RT: 9.888 min Scan# 13
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 83 Resp: 18456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.0 | 51.2 | 76.8 |
| 127 | 6.1 | 6.5 | 9.7# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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Reviewed By :John Carlone 01/15/2025
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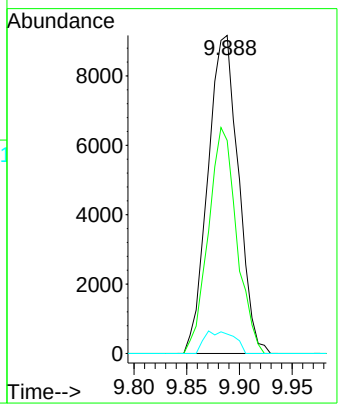
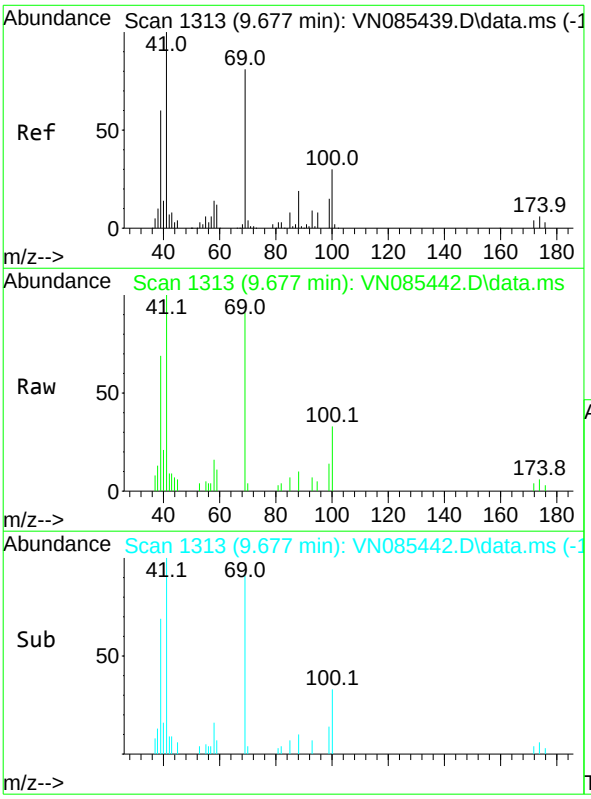
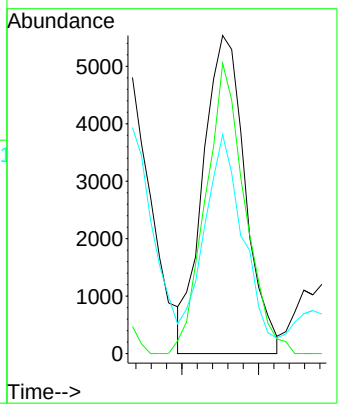


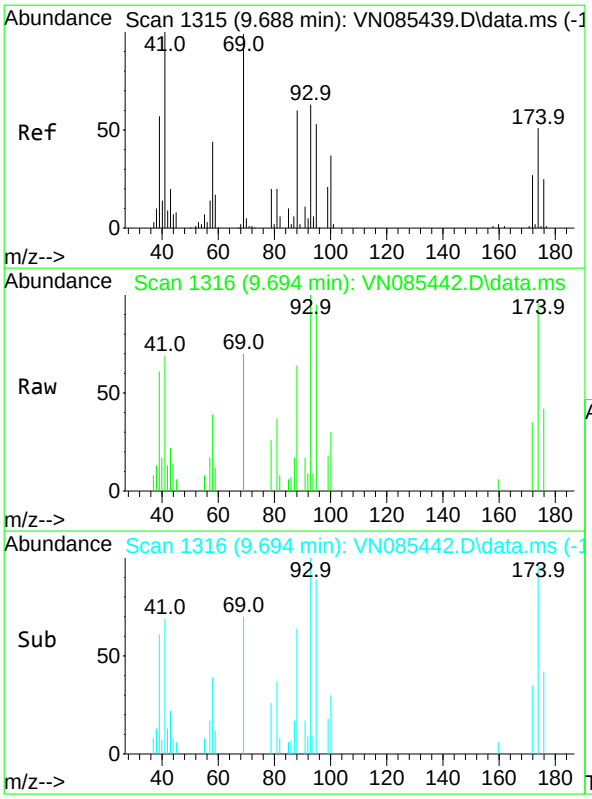




#48
Methyl methacrylate
Concen: 4.599 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 41 Resp: 10574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.9 | 64.7 | 97.1 |
| 39 | 65.3 | 49.0 | 73.6 |






#49
1,4-Dioxane
Concen: 93.477 ug/l
RT: 9.694 min Scan# 13
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

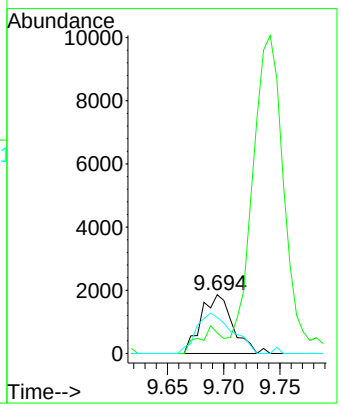
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

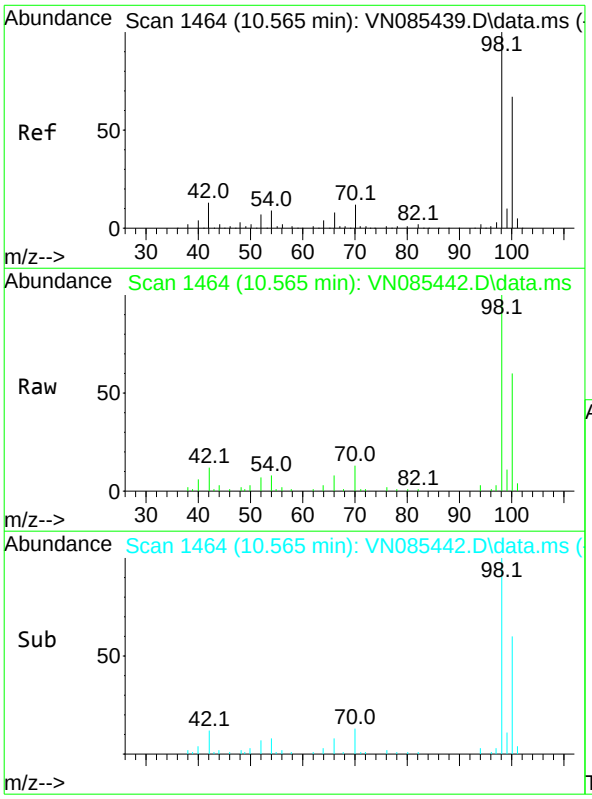
Tgt Ion: 88 Resp: 3619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 32.3 | 26.6 | 39.8 |
| 58 | 77.9 | 59.5 | 89.3 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

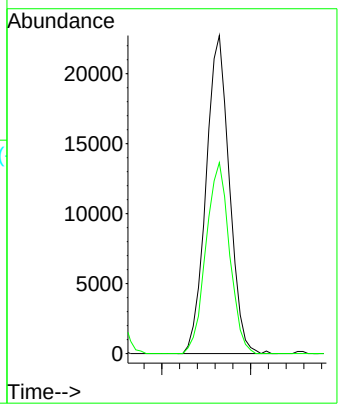


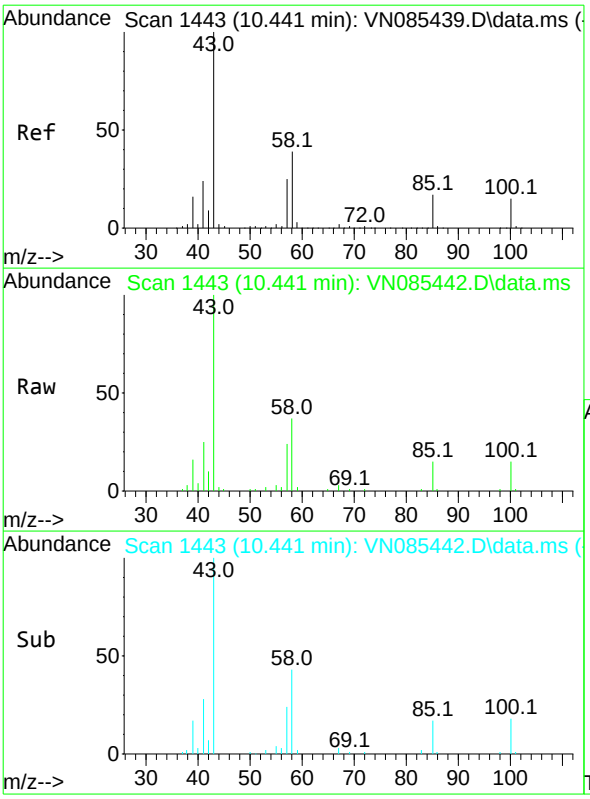




#50
Toluene-d8
Concen: 5.168 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 98 Resp: 41328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 60.9 | 52.2 | 78.4 |






#51
4-Methyl-2-Pentanone
Concen: 24.250 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

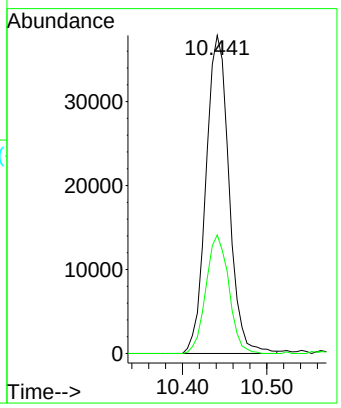
Tgt Ion: 43 Resp: 71889

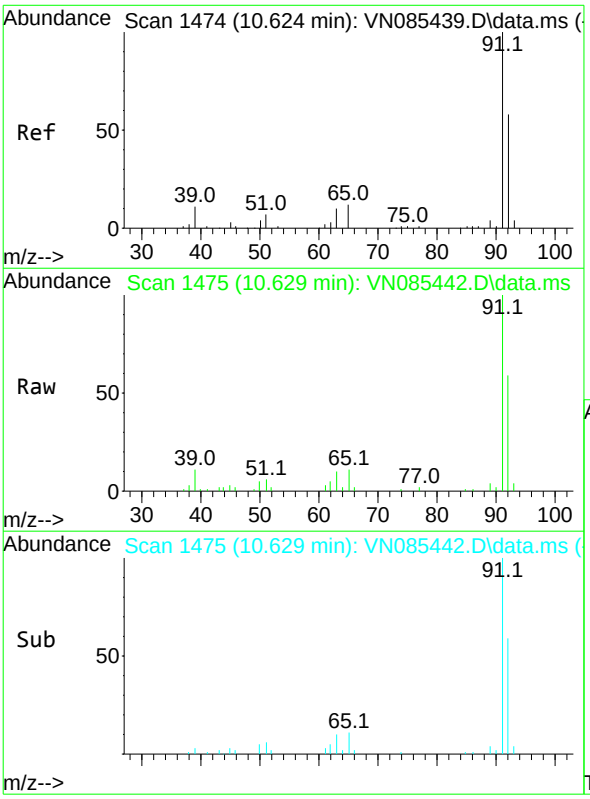
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.9 | 30.5 | 45.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

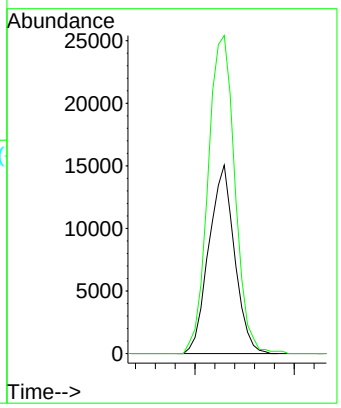


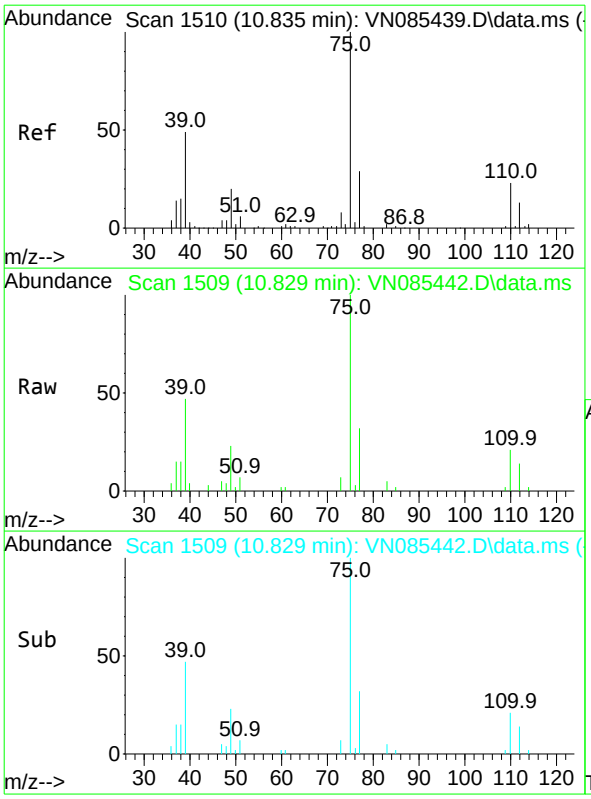




#52
Toluene
Concen: 4.928 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 92 Resp: 27098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 176.4 | 139.2 | 208.8 |






#53
t-1,3-Dichloropropene
Concen: 5.077 ug/l
RT: 10.829 min Scan# 15
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 17099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.2 | 23.5 | 35.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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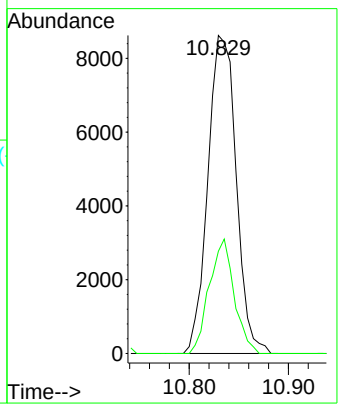
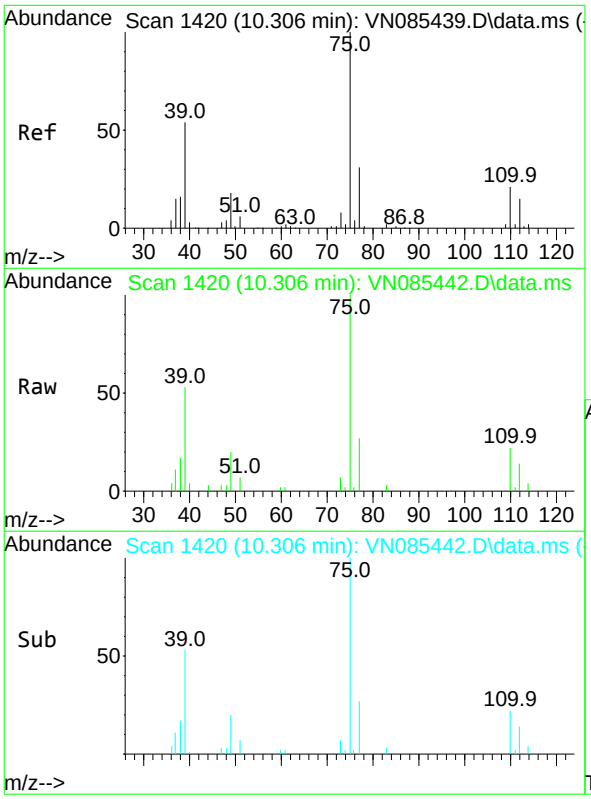
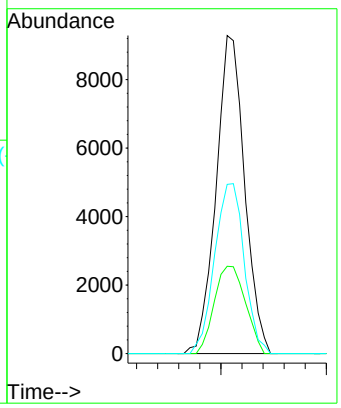


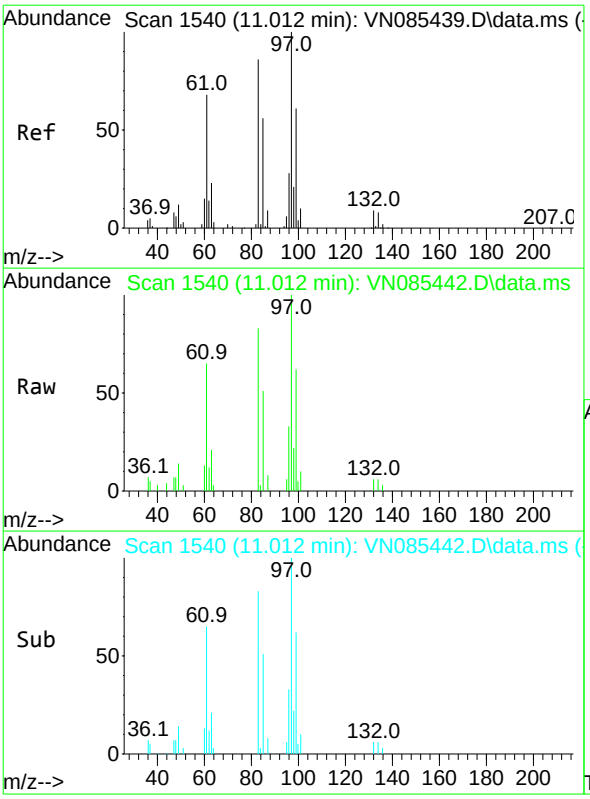




#54
cis-1,3-Dichloropropene
Concen: 4.848 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 17440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 27.5 | 25.0 | 37.4 |
| 39 | 53.2 | 43.1 | 64.7 |






#55
1,1,2-Trichloroethane
Concen: 5.197 ug/l
RT: 11.012 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

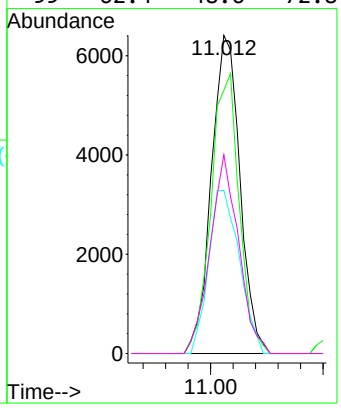
Tgt Ion: 97 Resp: 11311

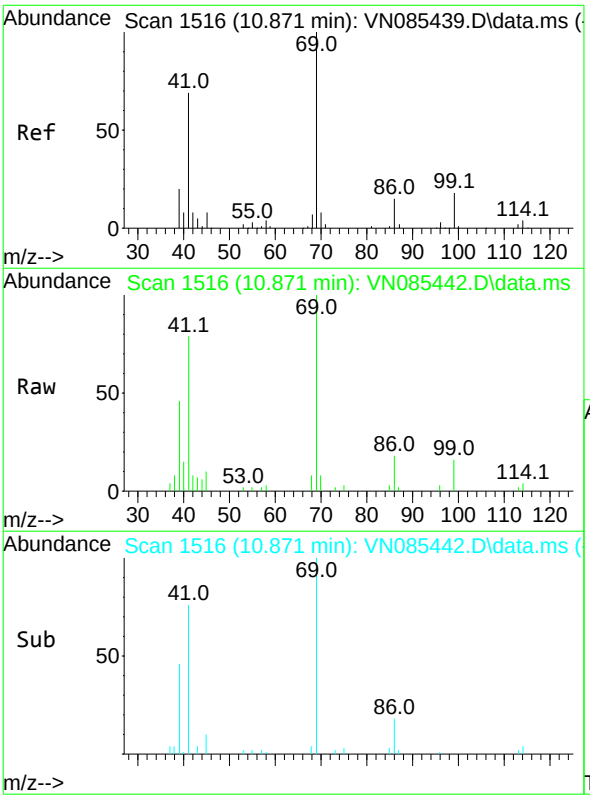
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.7 | 69.0 | 103.6 |
| 85 | 51.3 | 44.6 | 66.8 |
| 99 | 62.4 | 48.6 | 72.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

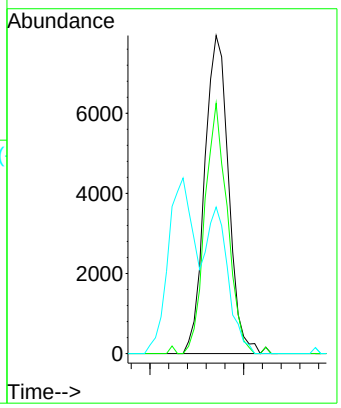


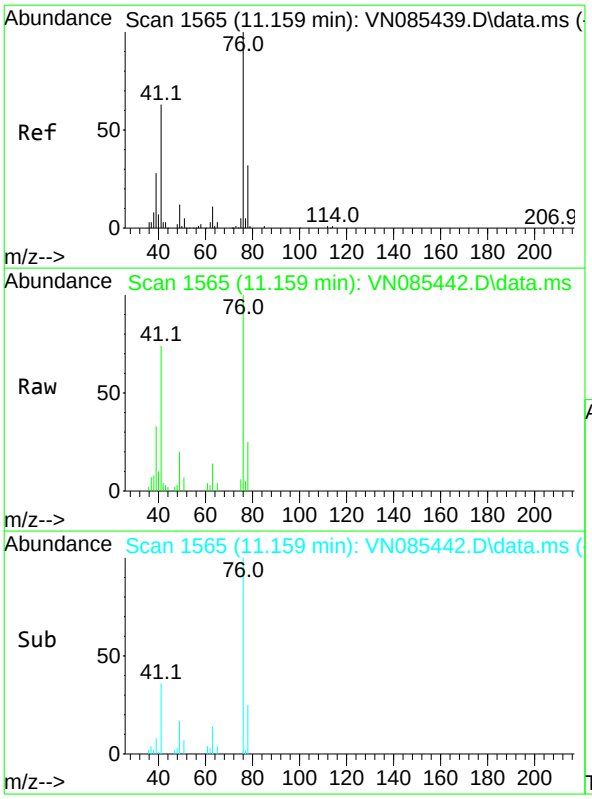




#56
Ethyl methacrylate
Concen: 5.627 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 69 Resp: 14094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 73.8 | 54.6 | 82.0 |
| 39 | 42.6 | 32.4 | 48.6 |






#57
1,3-Dichloropropane
Concen: 5.006 ug/l
RT: 11.159 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 76 Resp: 18945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

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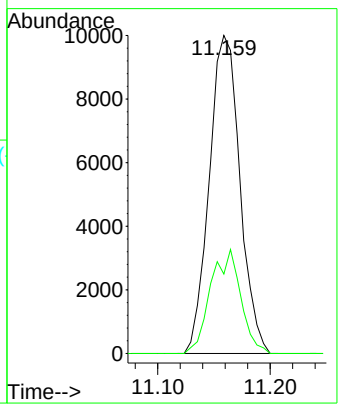
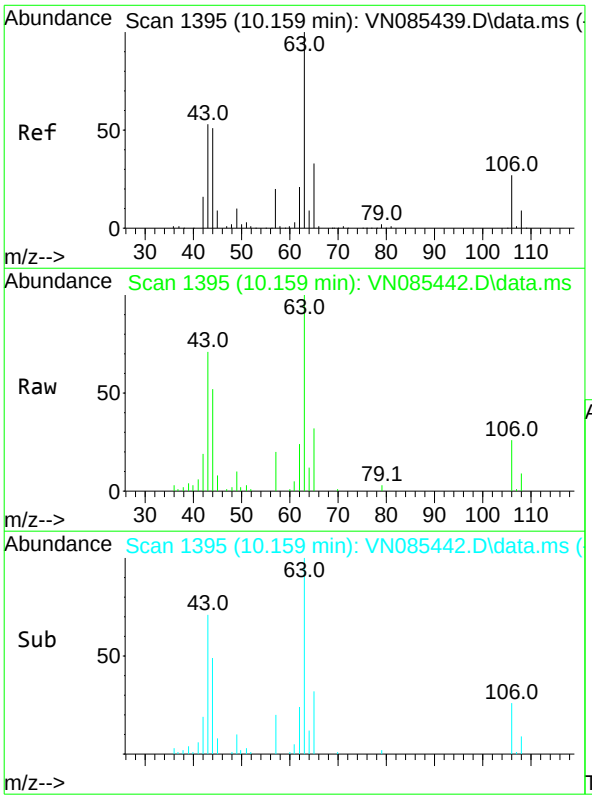
Supervised By :Mahesh Dadoda 01/15/2025

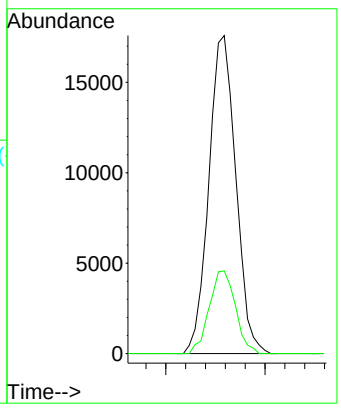


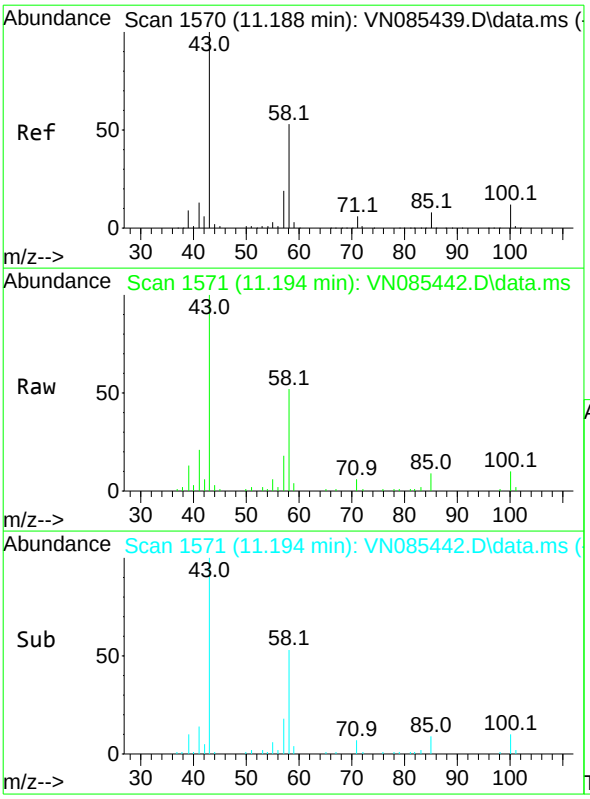




#58
2-Chloroethyl Vinyl ether
Concen: 24.047 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 63 Resp: 33210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 25.2 | 21.6 | 32.4 |






#59
2-Hexanone
Concen: 23.501 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

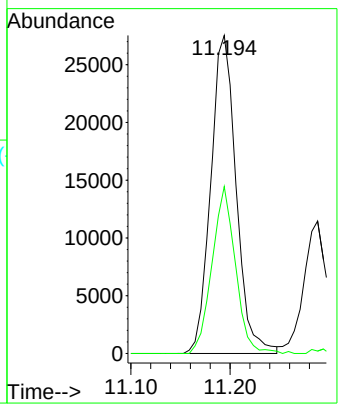
Tgt Ion: 43 Resp: 49021

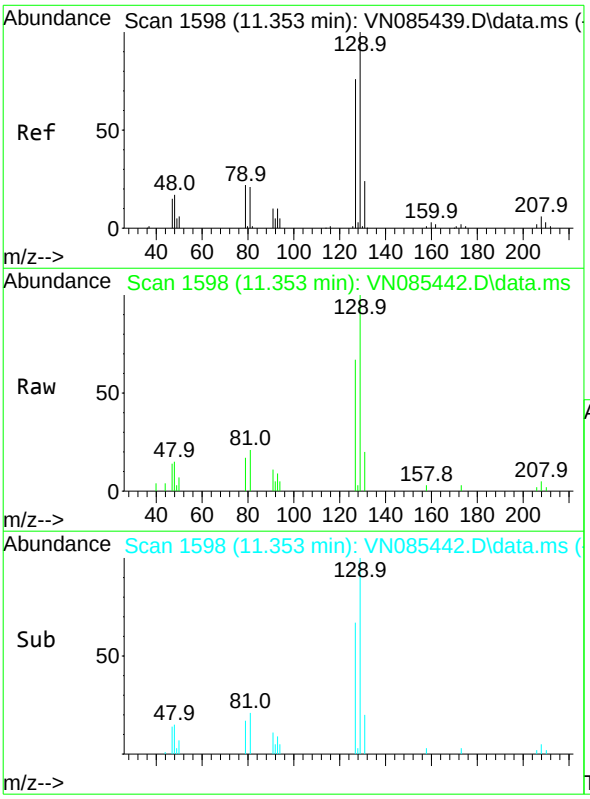
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 48.3 | 26.2 | 78.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

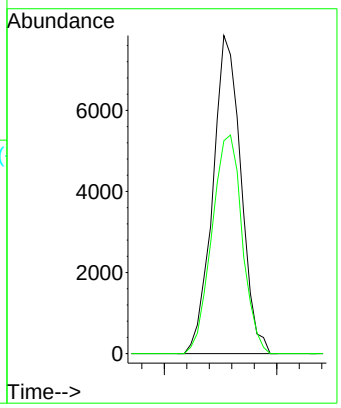


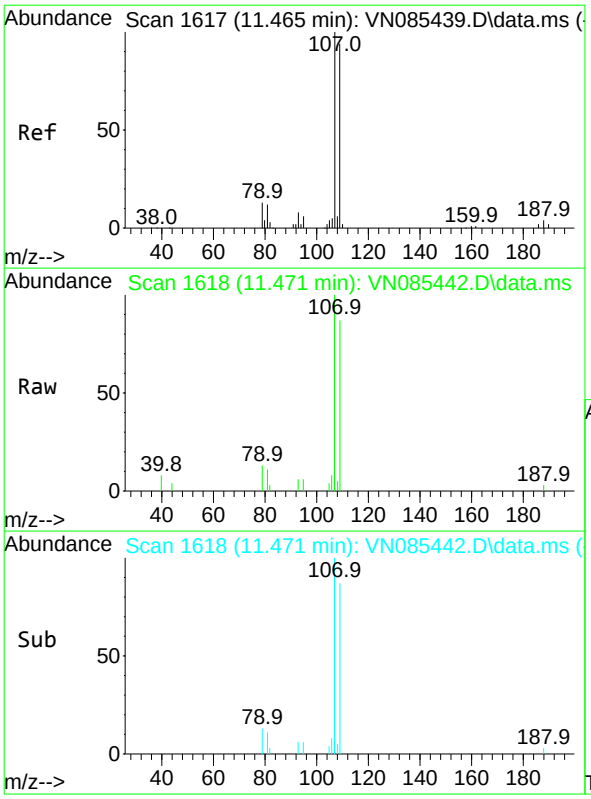




#60
Dibromochloromethane
Concen: 5.190 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:129 Resp: 13635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 73.9 | 38.6 | 115.8 |






#61
1,2-Dibromoethane
Concen: 4.810 ug/l
RT: 11.471 min Scan# 16
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

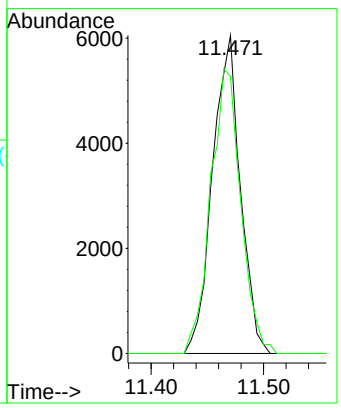
Tgt Ion:107 Resp: 10419

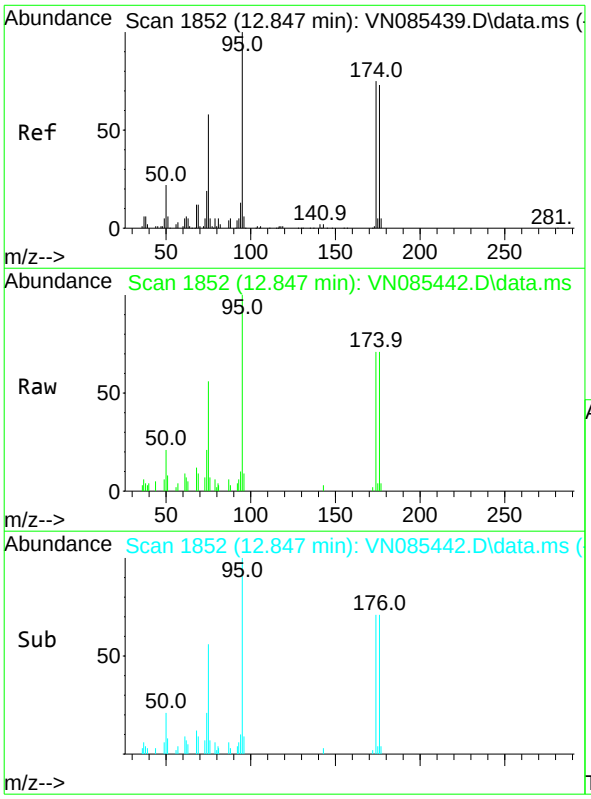
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.8 | 75.9 | 113.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

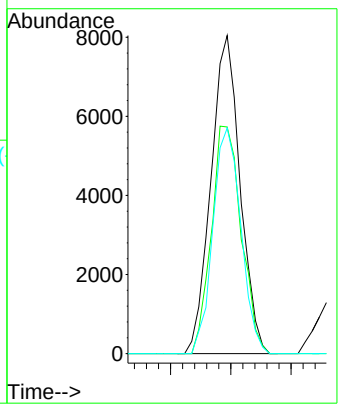


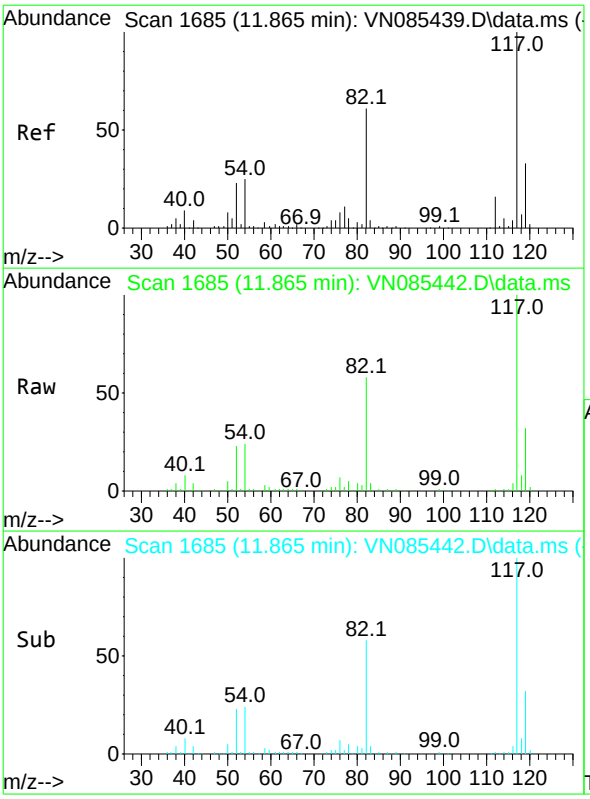




#62
4-Bromofluorobenzene
Concen: 4.943 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 95 Resp: 13520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 73.2 | 0.0 | 145.0 |
| 176 | 68.0 | 0.0 | 142.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:117 Resp: 282203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.3 | 48.6 | 72.8 |
| 119 | 32.1 | 26.6 | 39.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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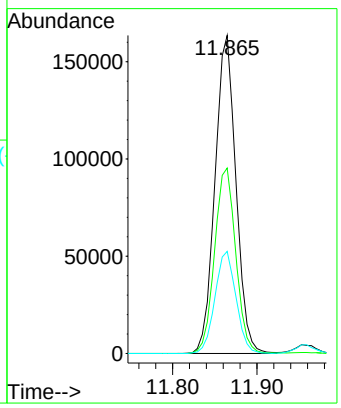
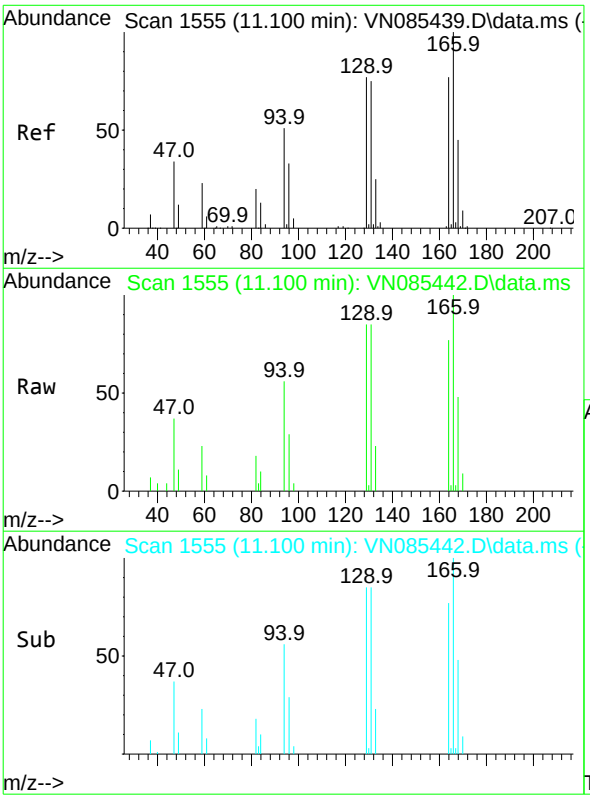
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

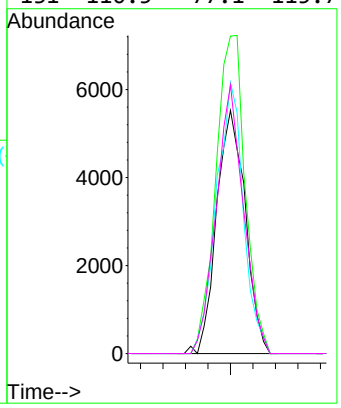


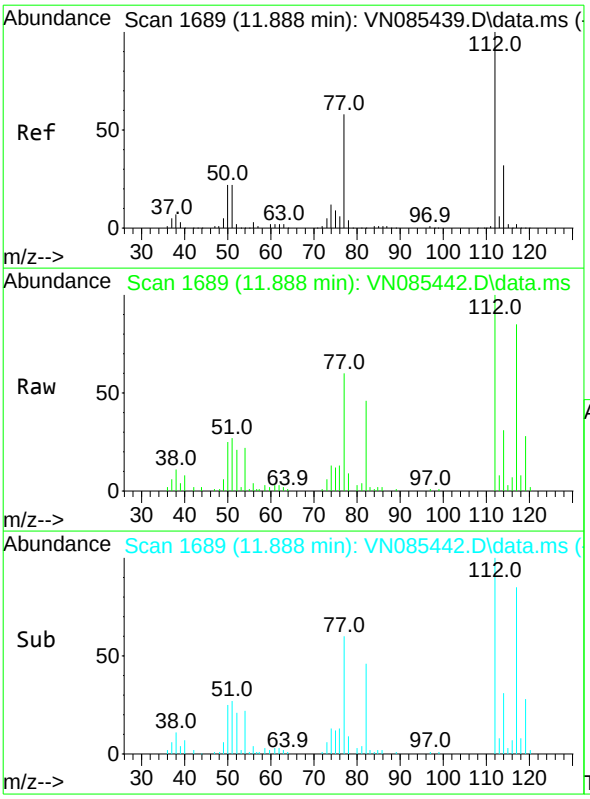




#64
Tetrachloroethene
Concen: 5.071 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:164 Resp: 9756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 130.6 | 103.4 | 155.2 |
| 129 | 111.5 | 79.2 | 118.8 |
| 131 | 110.5 | 77.1 | 115.7 |






#65
Chlorobenzene
Concen: 5.065 ug/l
RT: 11.888 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:112 Resp: 31312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 30.7 | 25.3 | 37.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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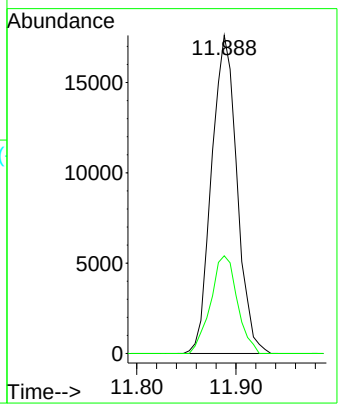
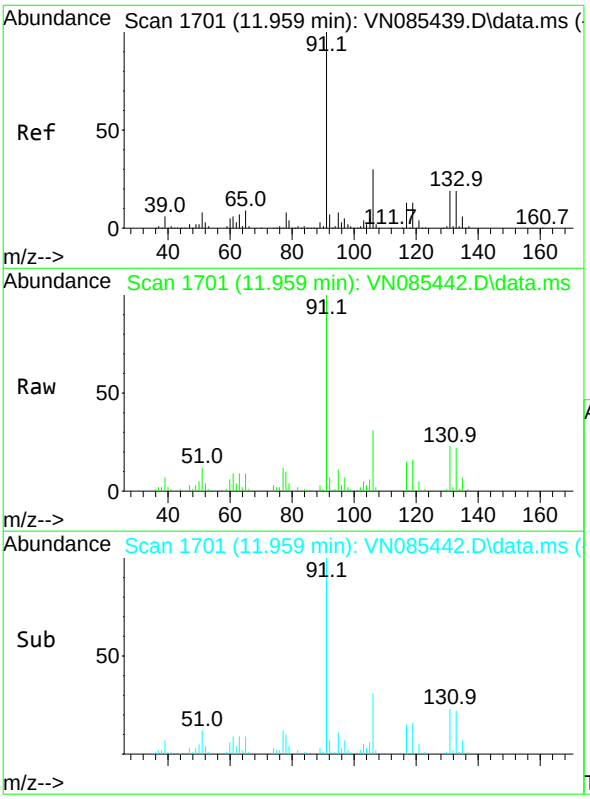
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

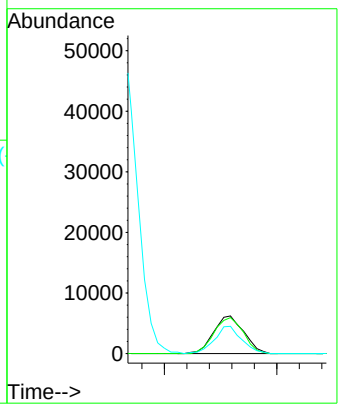


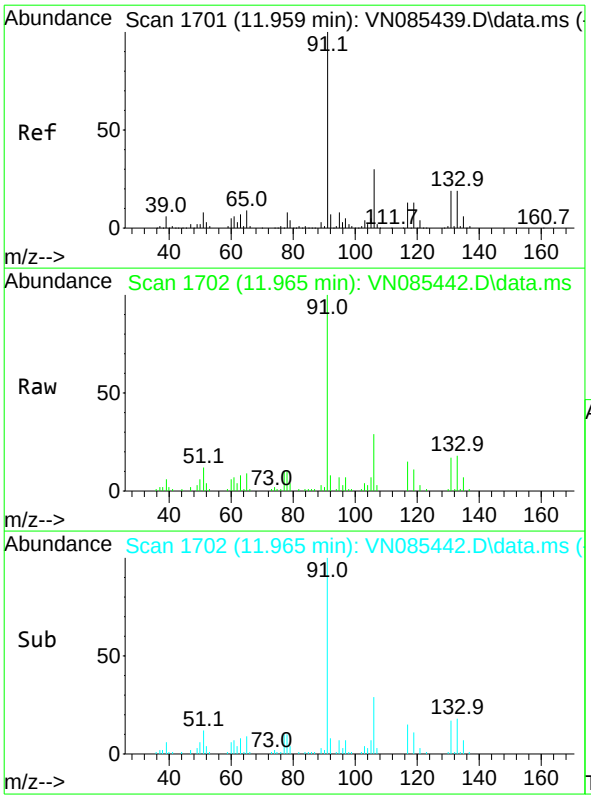




#66
1,1,1,2-Tetrachloroethane
Concen: 5.121 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:131 Resp: 11620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 92.7 | 47.4 | 142.3 |
| 119 | 65.0 | 33.1 | 99.5 |






#67
Ethyl Benzene
Concen: 4.789 ug/l
RT: 11.965 min Scan# 17
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

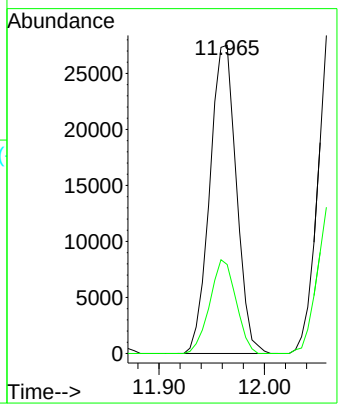
Tgt Ion: 91 Resp: 48216

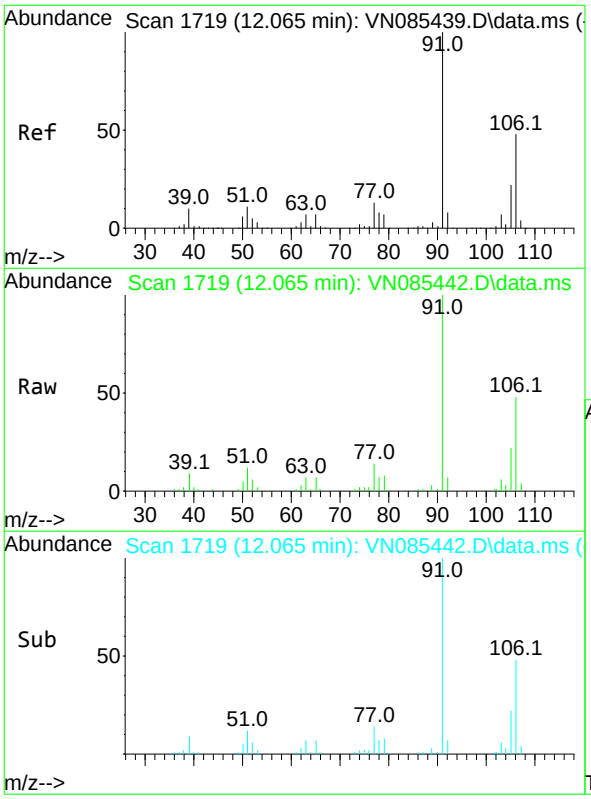
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.9 | 23.8 | 35.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

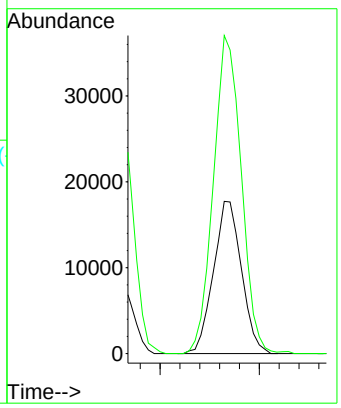


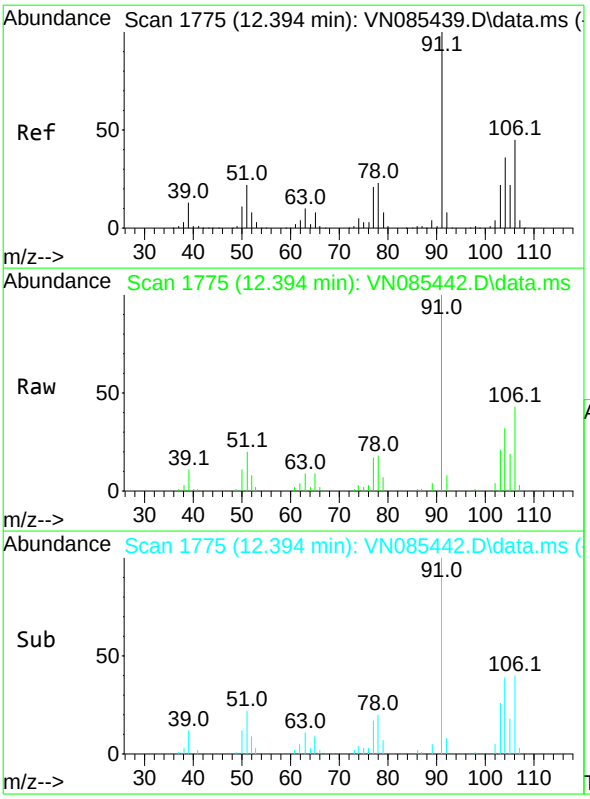




#68
m/p-Xylenes
Concen: 9.344 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:106 Resp: 34771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.9 | 167.7 | 251.5 |






#69
o-Xylene
Concen: 4.617 ug/l
RT: 12.394 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

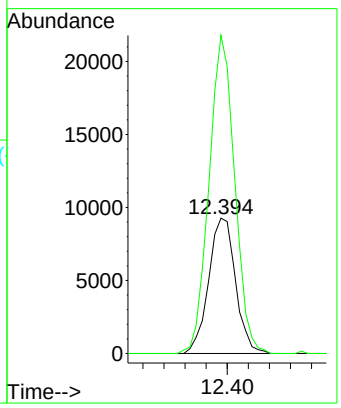
Tgt Ion:106 Resp: 16419

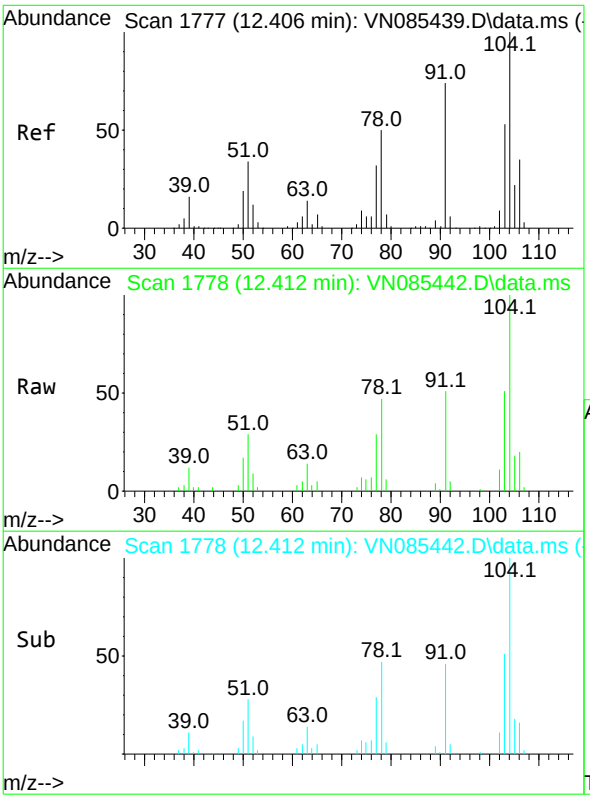
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 224.0 | 110.4 | 331.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

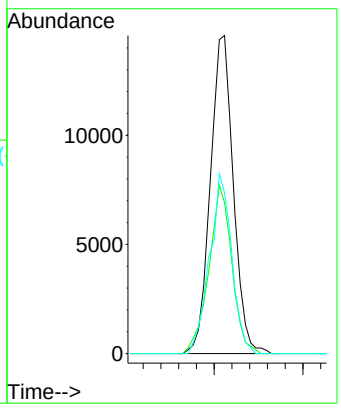


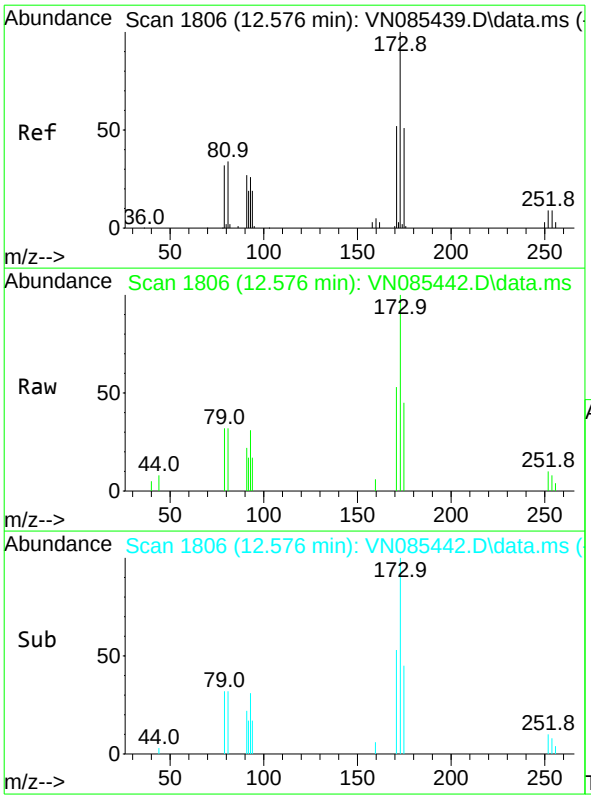




#70
Styrene
Concen: 4.454 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:104 Resp: 26218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.6 | 42.5 | 63.7 |
| 103 | 54.2 | 43.8 | 65.8 |






#71
Bromoform
Concen: 4.938 ug/l
RT: 12.576 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

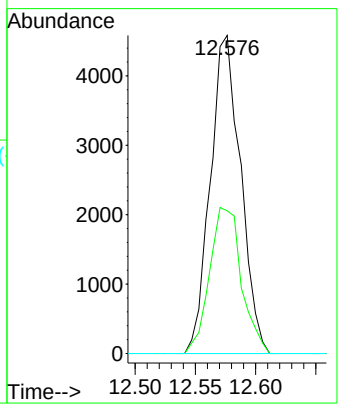
Tgt Ion:173 Resp: 8017

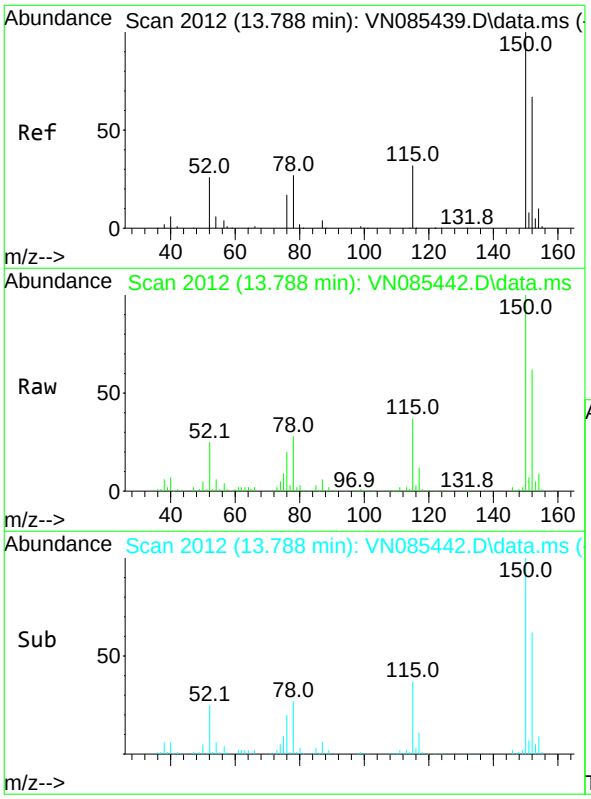
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.3 | 24.4 | 73.2 |
| 254 | 0.0 | 0.0 | 0.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

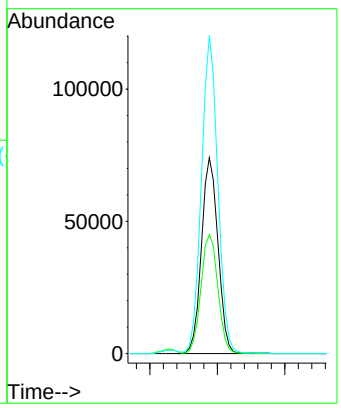


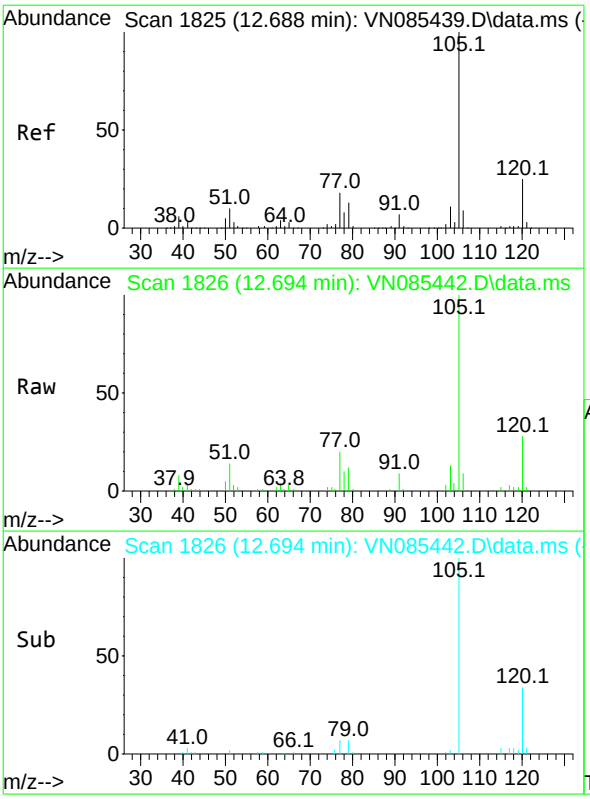




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:152 Resp: 126086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.0 | 31.1 | 93.3 |
| 150 | 160.7 | 0.0 | 343.6 |






#73
Isopropylbenzene
Concen: 4.678 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:105 Resp: 39811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 12.8 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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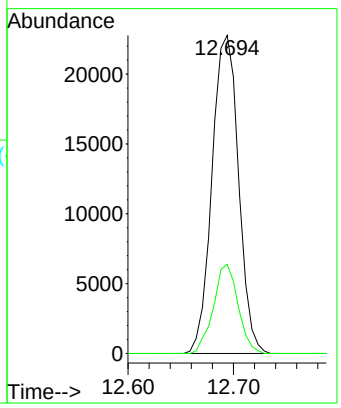
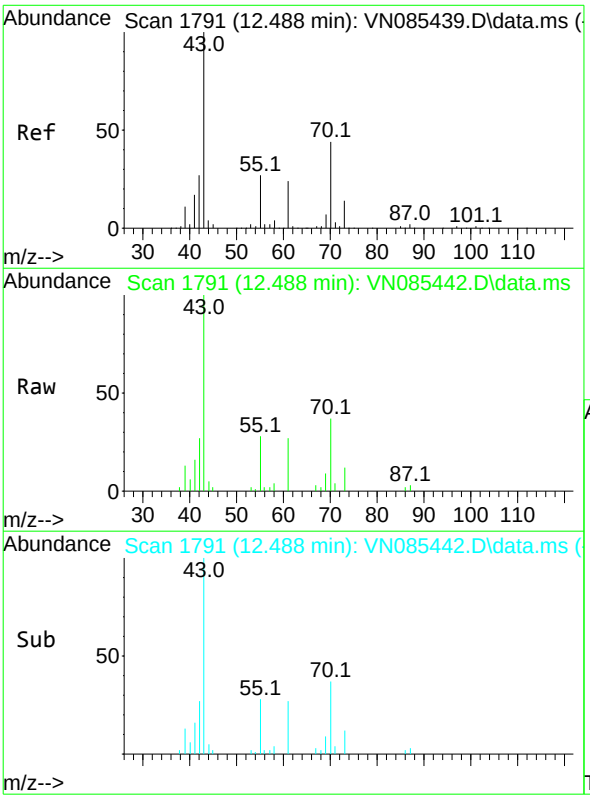
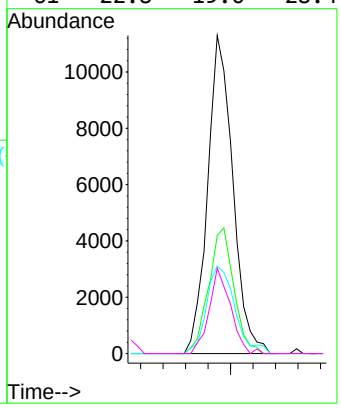


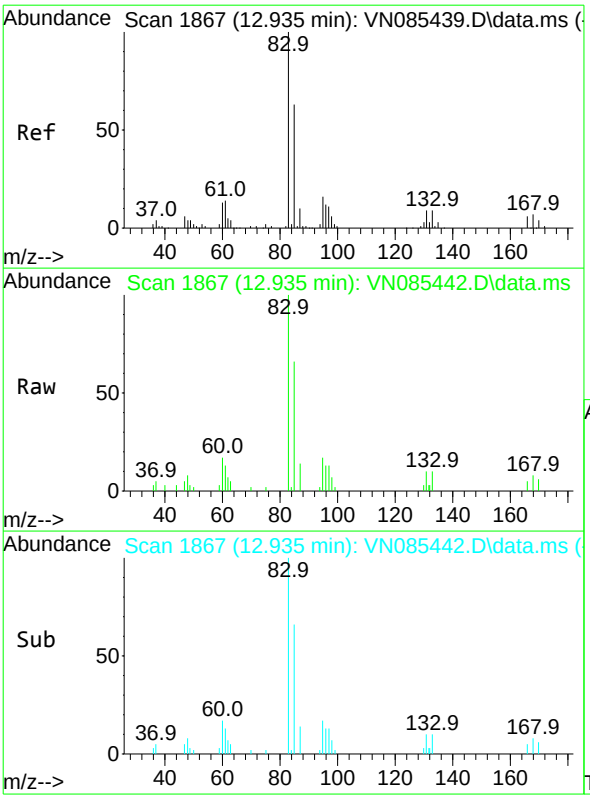




#74
N-amyl acetate
Concen: 4.595 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 17577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 39.5 | 34.0 | 51.0 |
| 55 | 30.8 | 21.4 | 32.2 |
| 61 | 22.8 | 19.0 | 28.4 |






#75
1,1,2,2-Tetrachloroethane
Concen: 5.151 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 83 Resp: 15483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.5 | 4.8 | 14.4 |
| 85 | 67.5 | 32.2 | 96.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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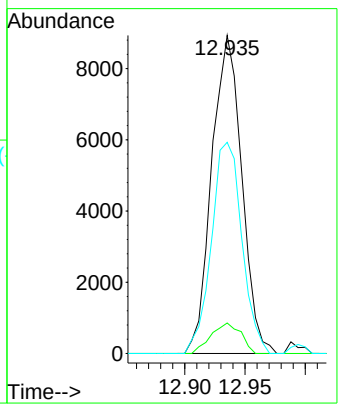
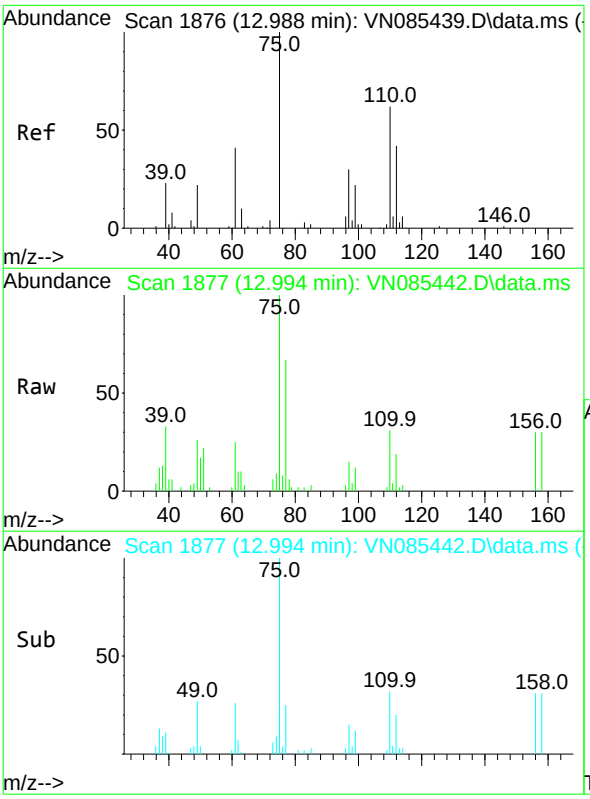
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

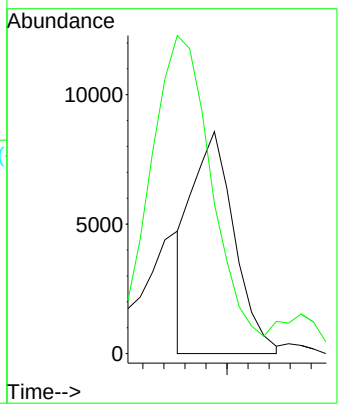


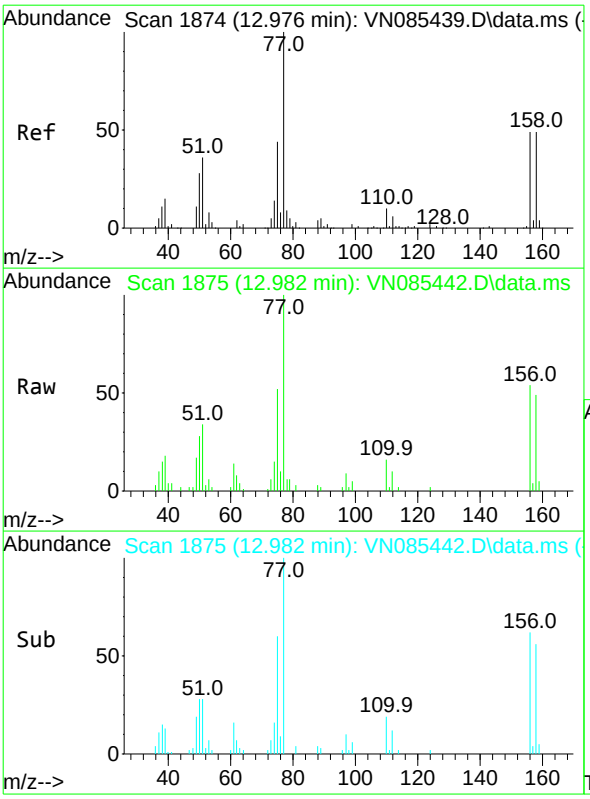




#76
1,2,3-Trichloropropane
Concen: 4.758 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 12173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 209.1 | 109.7 | 329.2 |






#77
Bromobenzene
Concen: 4.989 ug/l
RT: 12.982 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

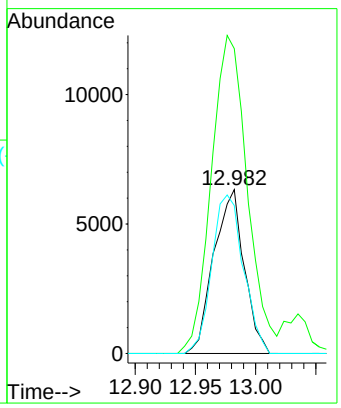
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

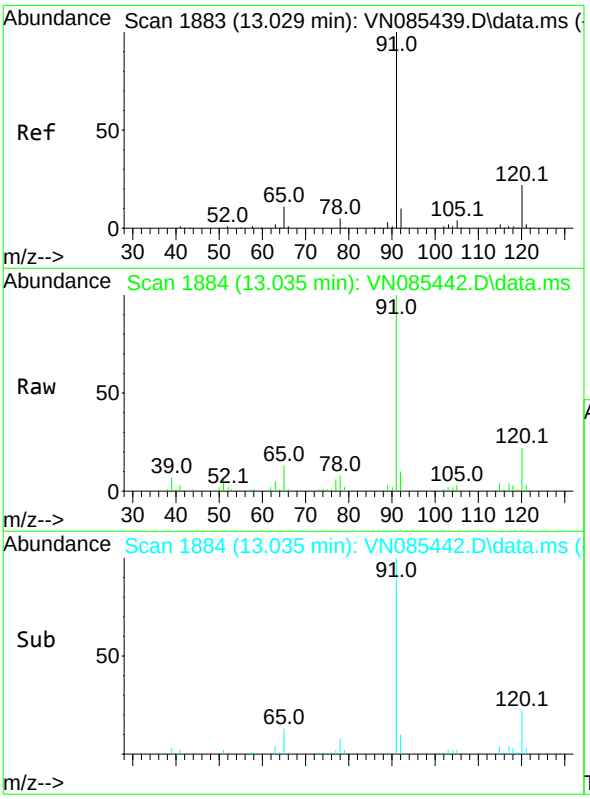
Tgt Ion:156 Resp: 11091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 229.5 | 114.1 | 342.4 |
| 158 | 100.8 | 48.9 | 146.8 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

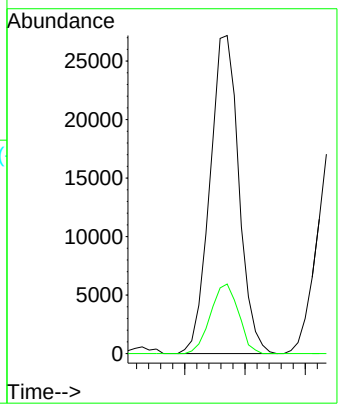


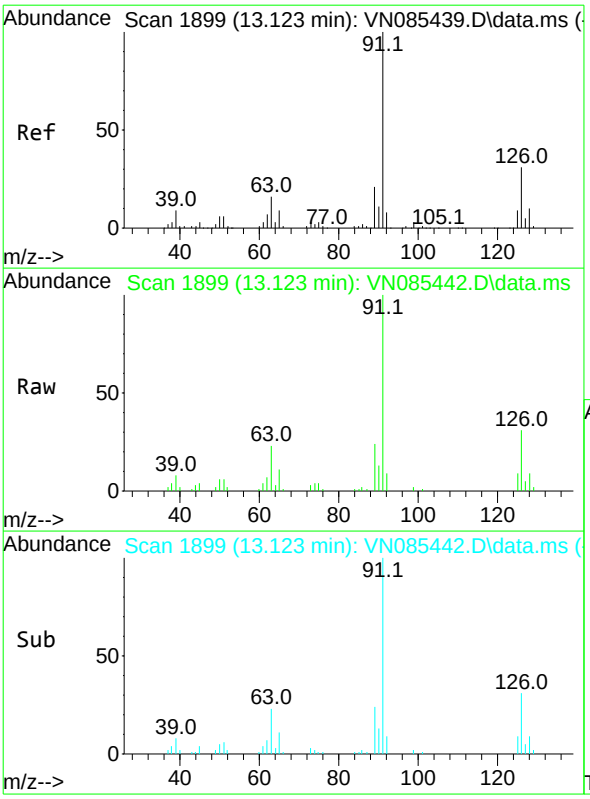




#78
n-propylbenzene
Concen: 4.512 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 91 Resp: 45450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.1 | 10.9 | 32.6 |






#79
2-Chlorotoluene
Concen: 4.898 ug/l
RT: 13.123 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

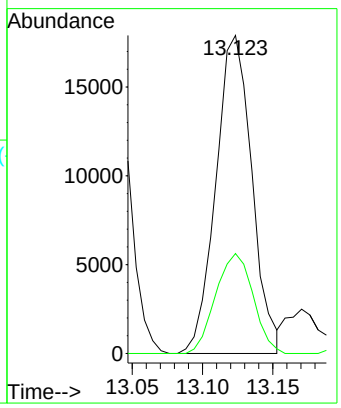
Tgt Ion: 91 Resp: 31932

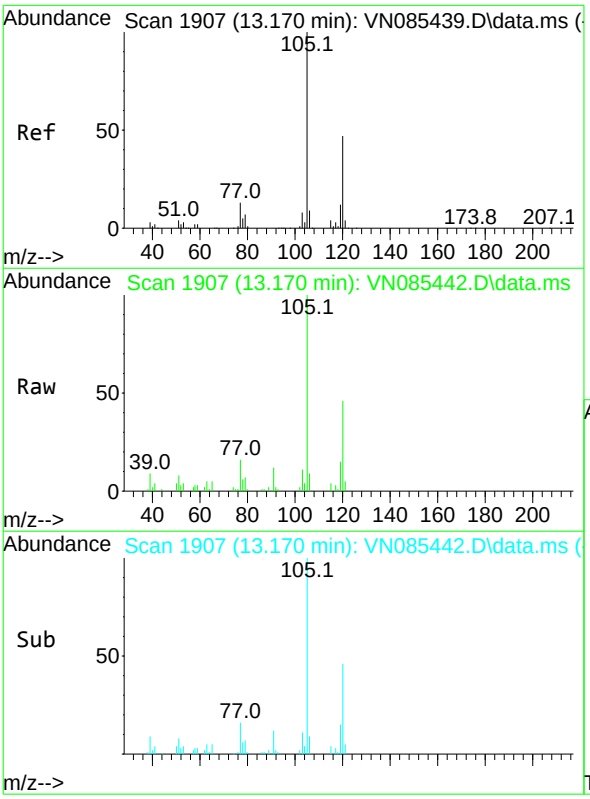
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.6 | 15.7 | 47.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

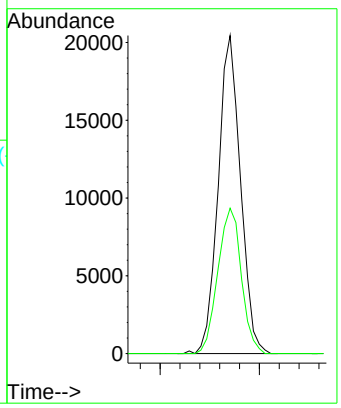


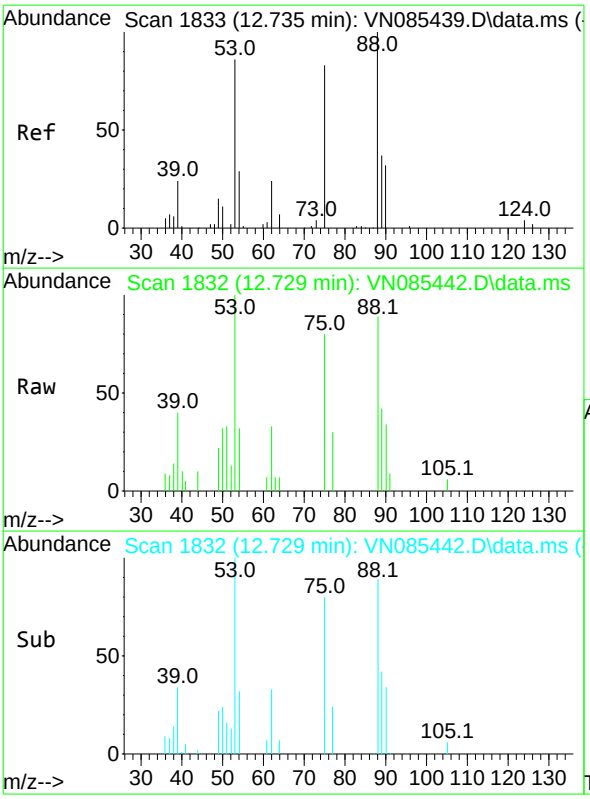




#80
1,3,5-Trimethylbenzene
Concen: 4.537 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:105 Resp: 31891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.1 | 23.9 | 71.7 |






#81
trans-1,4-Dichloro-2-butene
Concen: 4.465 ug/l
RT: 12.729 min Scan# 18
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

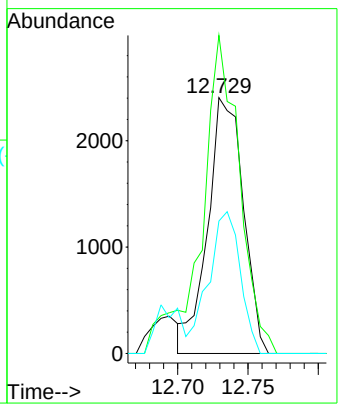
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

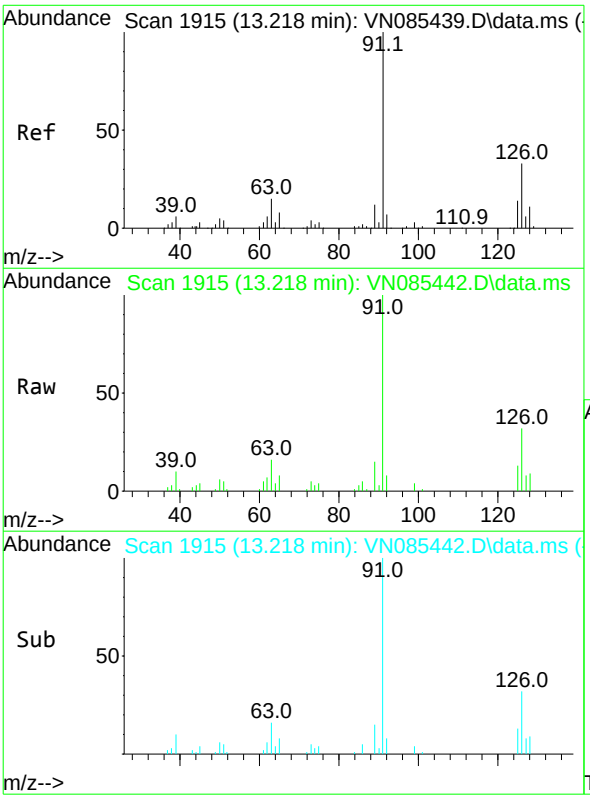
Tgt Ion: 75 Resp: 4229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 132.6 | 95.6 | 143.4 |
| 89 | 49.7 | 37.0 | 55.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

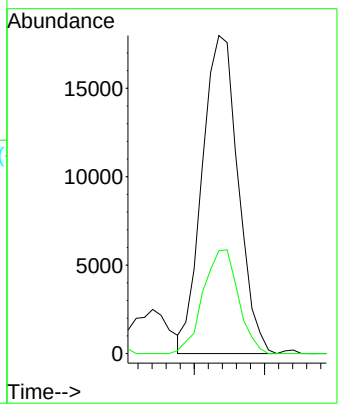


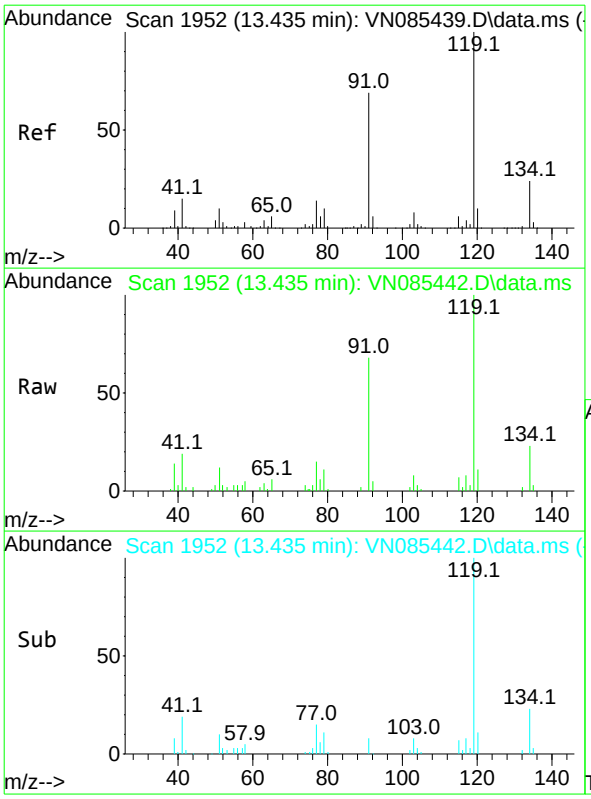




#82
4-Chlorotoluene
Concen: 4.926 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 91 Resp: 31976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.9 | 15.9 | 47.7 |






#83
tert-Butylbenzene
Concen: 4.675 ug/l
RT: 13.435 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

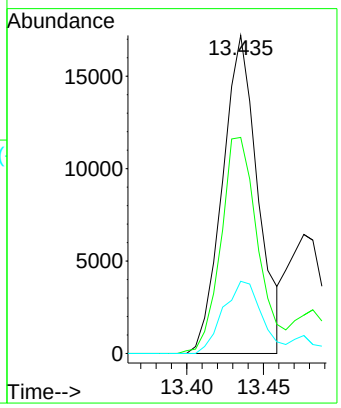
Tgt Ion:119 Resp: 27597

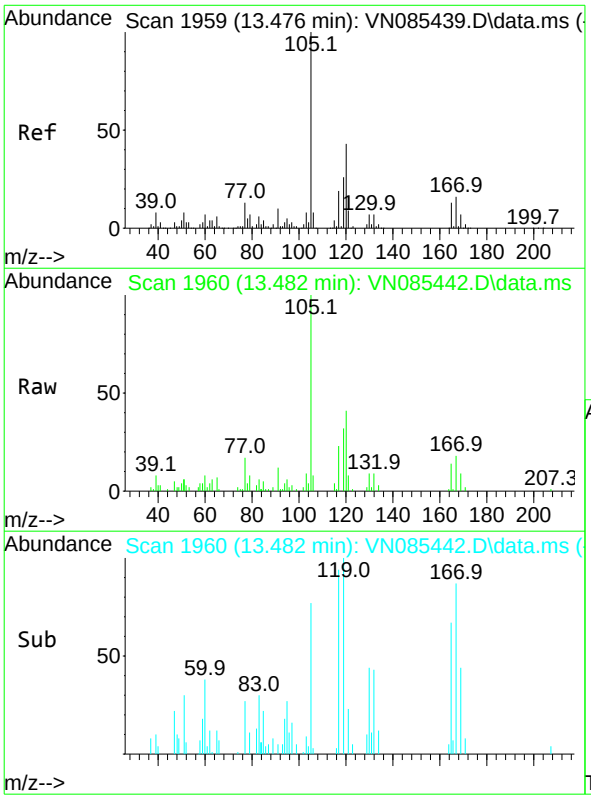
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 71.1 | 35.1 | 105.3 |
| 134 | 24.8 | 12.0 | 36.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

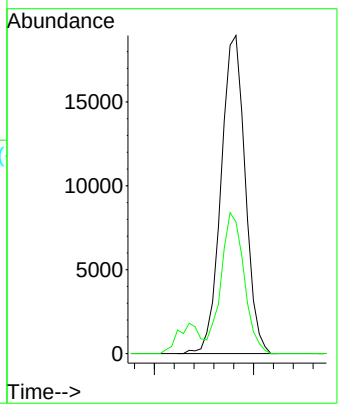


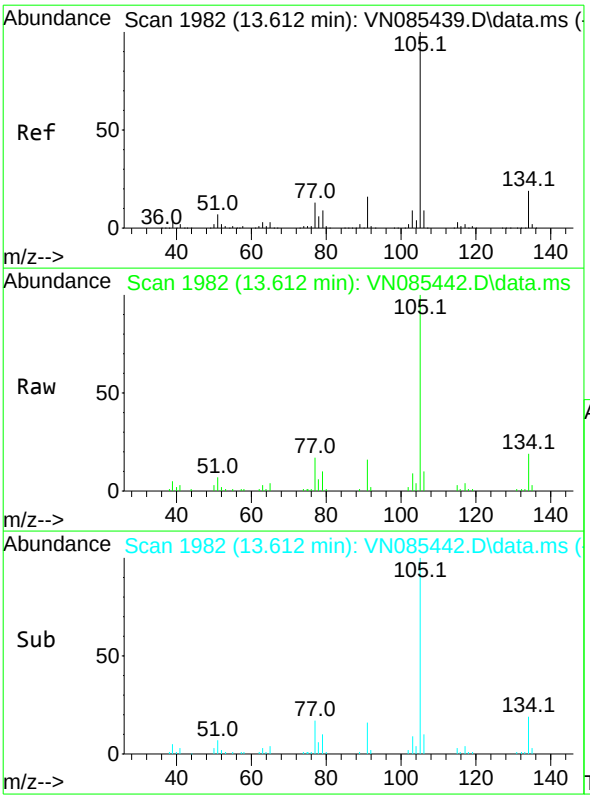




#84
1,2,4-Trimethylbenzene
Concen: 4.575 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:105 Resp: 32054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.0 | 21.6 | 65.0 |






#85
sec-Butylbenzene
Concen: 4.663 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

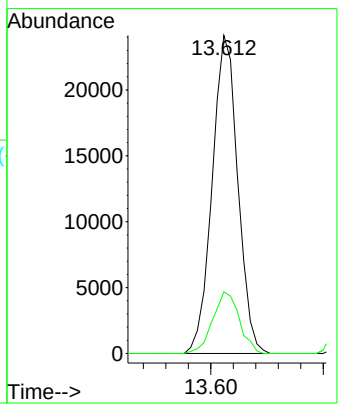
Tgt Ion:105 Resp: 38148

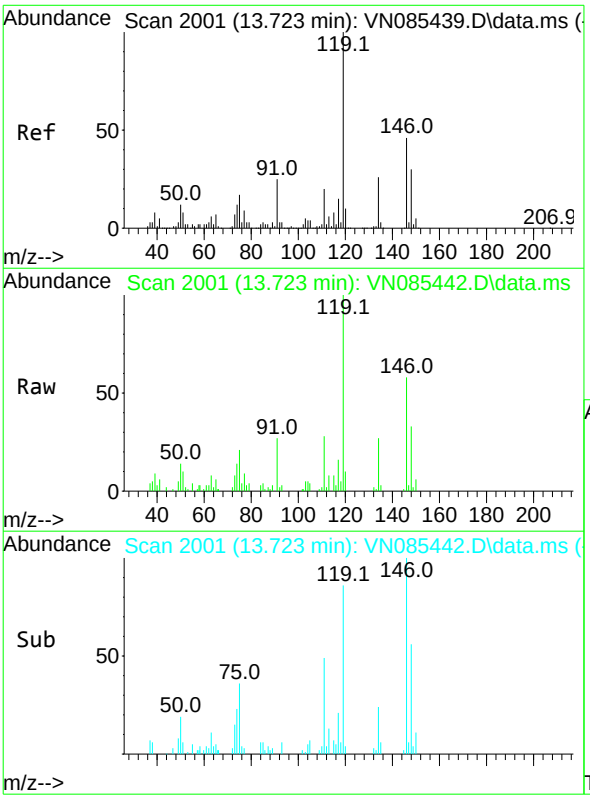
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.1 | 9.7 | 28.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

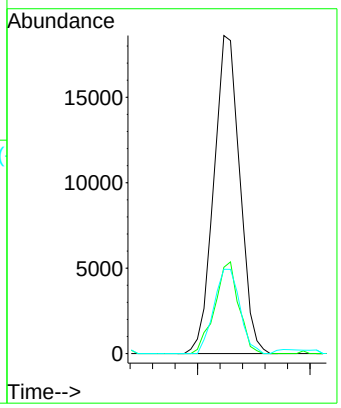


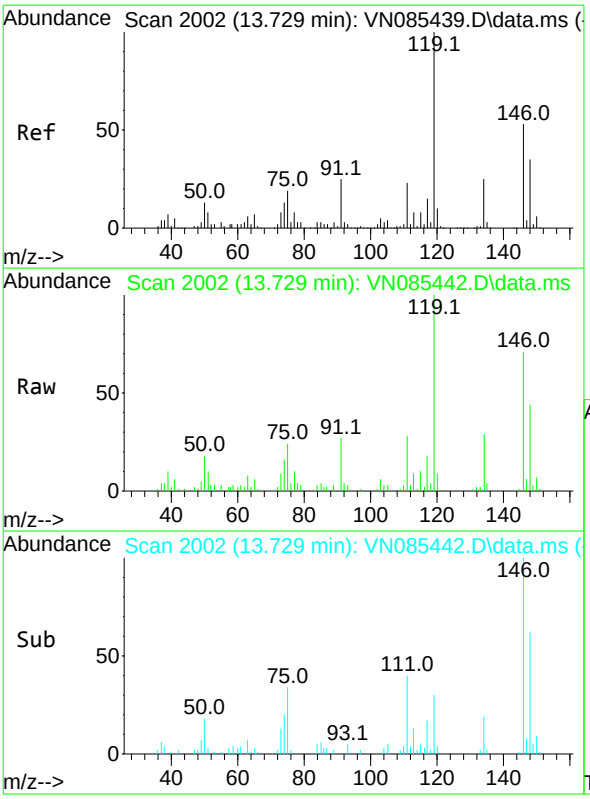




#86
p-Isopropyltoluene
Concen: 4.584 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:119 Resp: 29856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 12.7 | 38.0 |
| 91 | 26.5 | 12.7 | 38.1 |






#87
1,3-Dichlorobenzene
Concen: 5.099 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

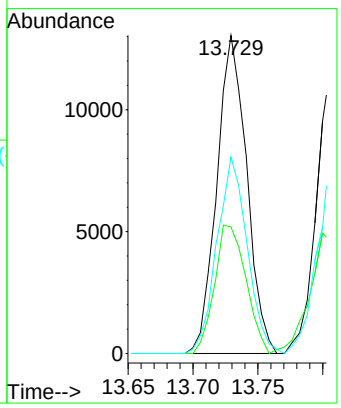
Tgt Ion:146 Resp: 20876

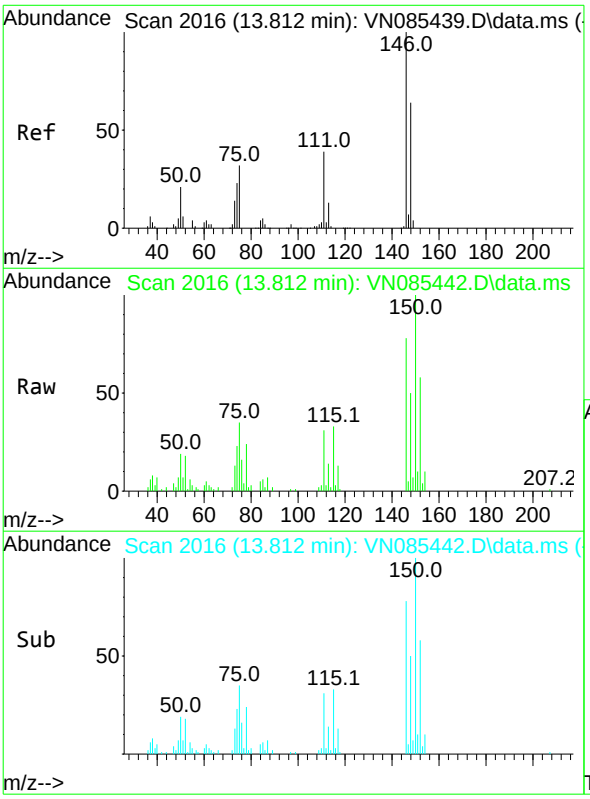
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.3 | 21.4 | 64.3 |
| 148 | 62.7 | 32.3 | 96.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

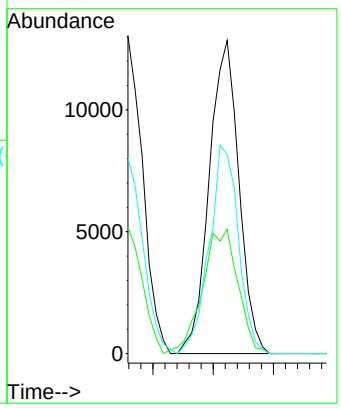


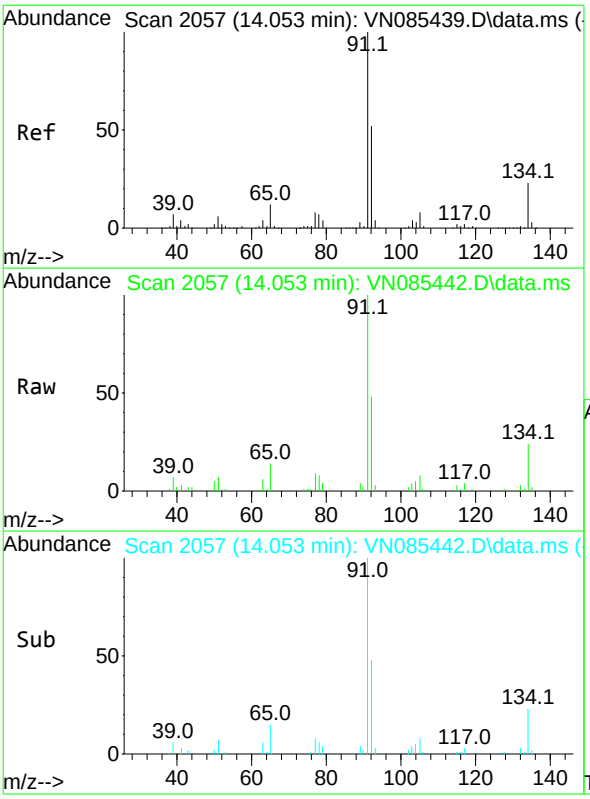




#88
1,4-Dichlorobenzene
Concen: 5.179 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:146 Resp: 21982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.1 | 21.3 | 63.7 |
| 148 | 65.5 | 32.4 | 97.0 |






#89
n-Butylbenzene
Concen: 4.675 ug/l
RT: 14.053 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

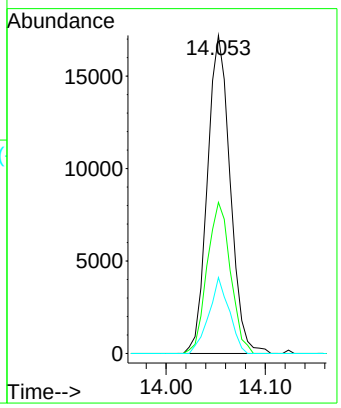
Tgt Ion: 91 Resp: 27437

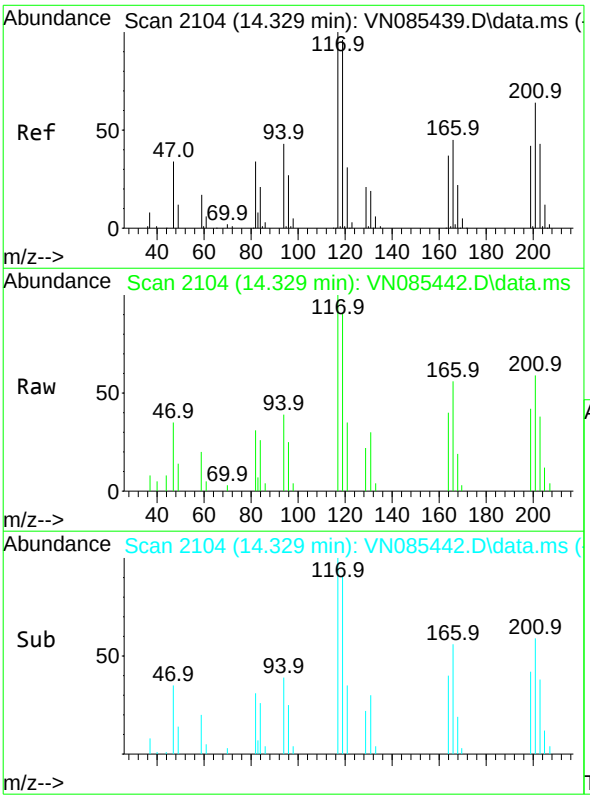
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 48.7 | 25.8 | 77.3 |
| 134 | 21.4 | 11.7 | 35.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

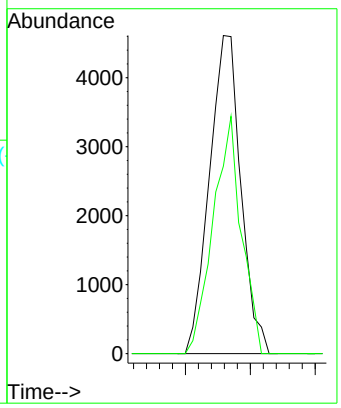


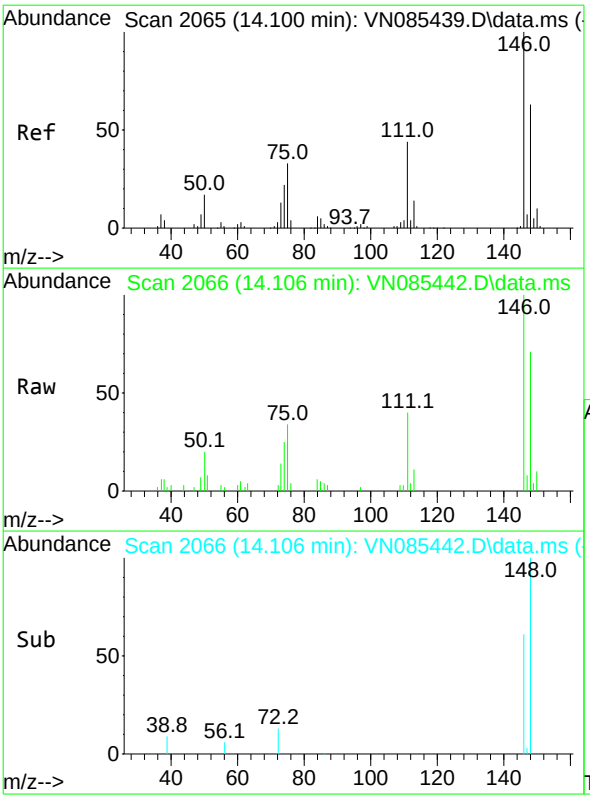




#90
Hexachloroethane
Concen: 4.987 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:117 Resp: 7767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 66.9 | 33.7 | 101.0 |






#91
1,2-Dichlorobenzene
Concen: 4.940 ug/l
RT: 14.106 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

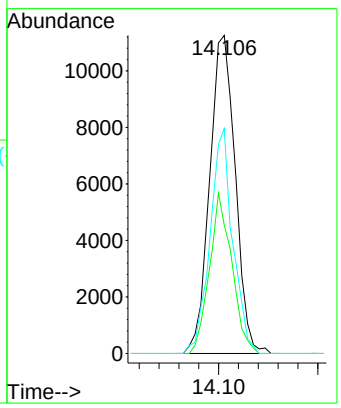
Tgt Ion:146 Resp: 20177

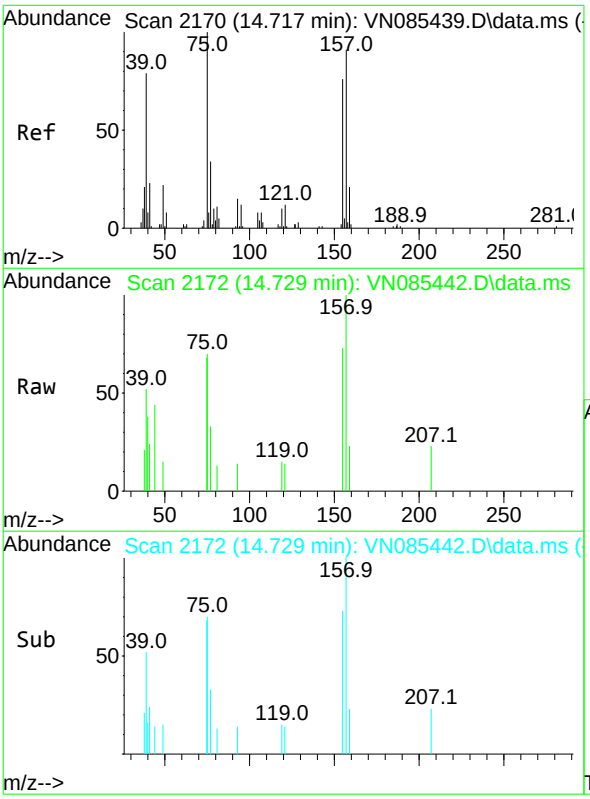
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.0 | 21.7 | 65.1 |
| 148 | 62.8 | 31.4 | 94.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

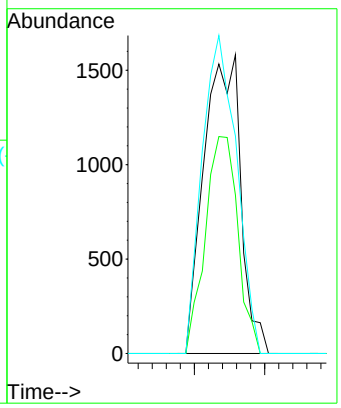


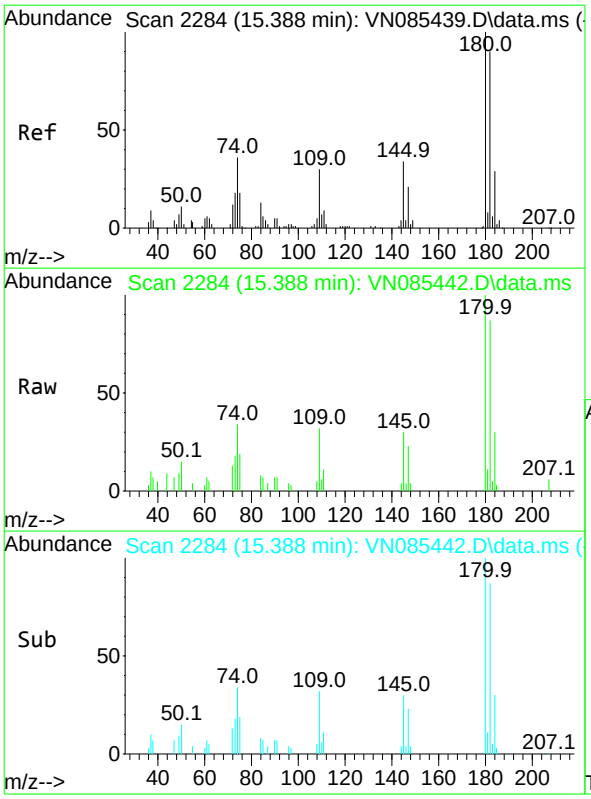




#92
1,2-Dibromo-3-Chloropropane
Concen: 5.232 ug/l
RT: 14.729 min Scan# 2172
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 2872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 64.2 | 36.4 | 109.2 |
| 157 | 99.8 | 45.4 | 136.1 |






#93
1,2,4-Trichlorobenzene
Concen: 4.761 ug/l
RT: 15.388 min Scan# 22
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

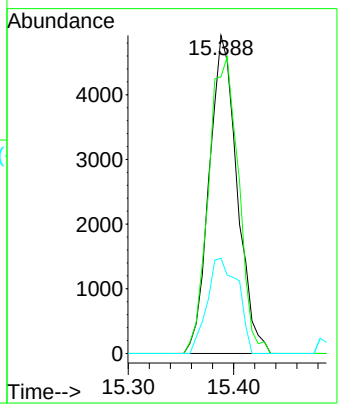
Tgt Ion:180 Resp: 9037

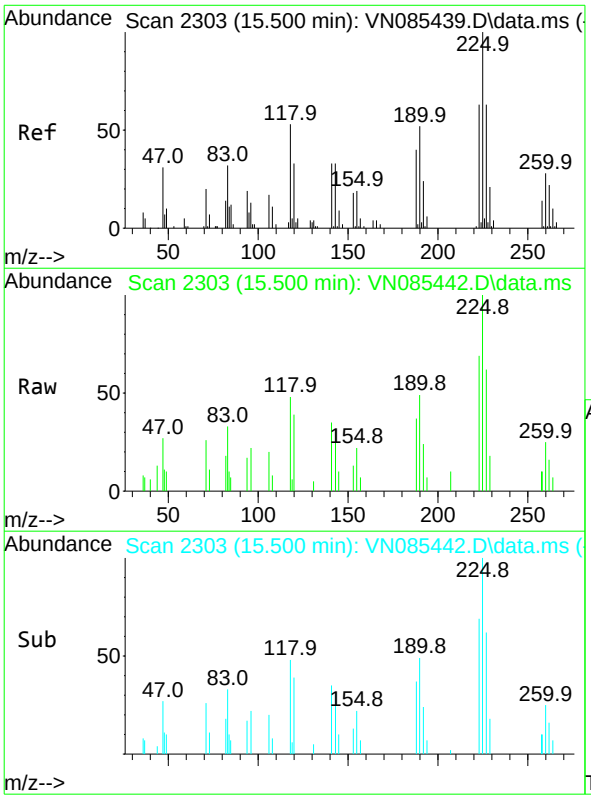
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 100.5 | 46.8 | 140.3 |
| 145 | 33.0 | 16.0 | 48.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

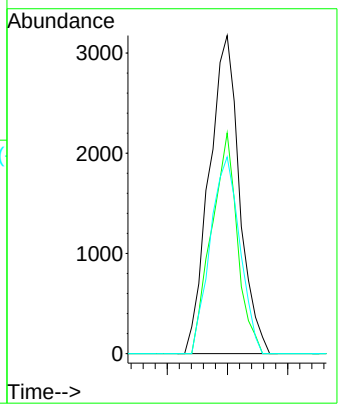


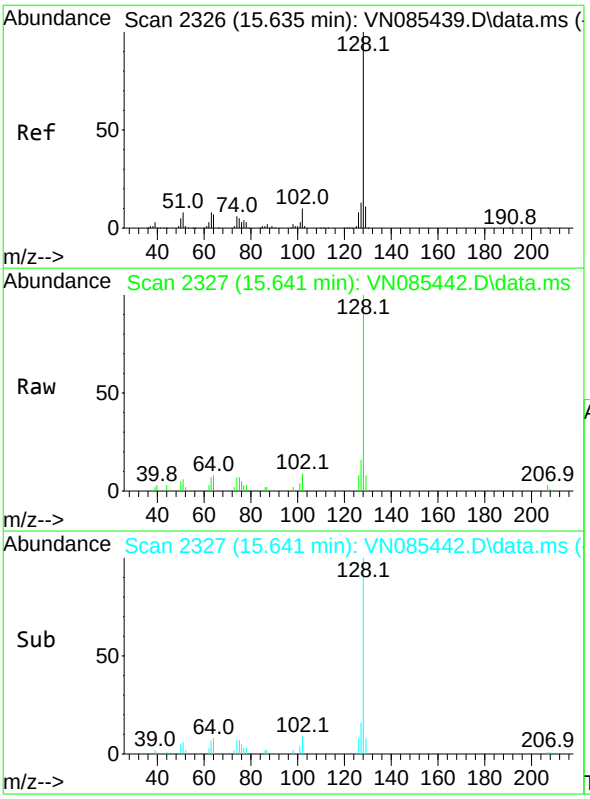




#94
Hexachlorobutadiene
Concen: 5.520 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:225 Resp: 5563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 59.2 | 30.7 | 92.1 |
| 227 | 60.1 | 30.9 | 92.5 |






#95
Naphthalene
Concen: 4.422 ug/l
RT: 15.641 min Scan# 23
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

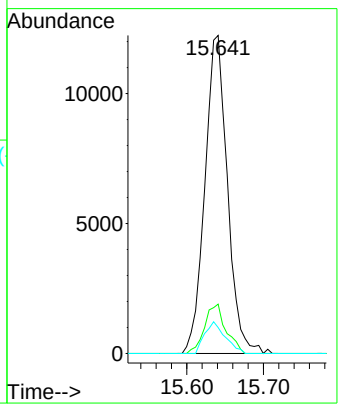
Tgt Ion:128 Resp: 25047

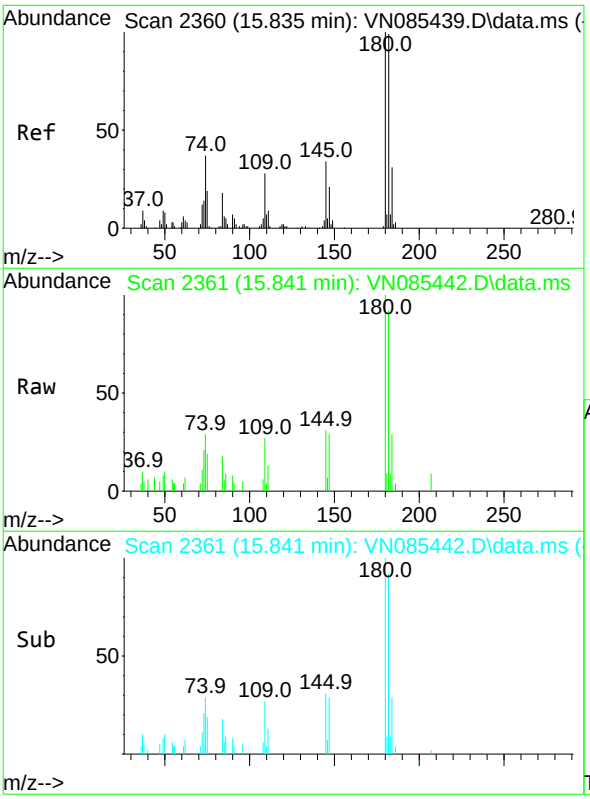
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 14.7 | 10.6 | 16.0 |
| 129 | 9.1 | 8.8 | 13.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

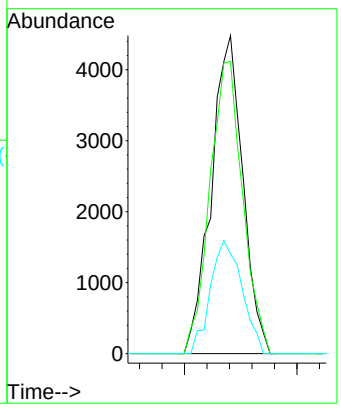



#96
1,2,3-Trichlorobenzene
Concen: 4.549 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:180 Resp: 8737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.4 | 142.2 |
| 145 | 35.5 | 16.9 | 50.7 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085443.D
Acq On : 14 Jan 2025 17:19
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 15 01:46:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 166880 | 50.000 ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 302938 | 50.000 ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 256851 | 50.000 ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 99539 | 50.000 ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | |
| 33) 1,2-Dichloroethane-d4 | 0.000 | 65 | 0d | 0.000 ug/l | |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 0.000%# | |
| 35) Dibromofluoromethane | 0.000 | 113 | 0d | 0.000 ug/l | |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 0.000%# | |
| 50) Toluene-d8 | 0.000 | 98 | 0d | 0.000 ug/l | |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 0.000%# | |
| 62) 4-Bromofluorobenzene | 0.000 | 95 | 0d | 0.000 ug/l | |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 0.000%# | |
| **Target Compounds** | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 2382 | 1.054 ug/l | 91 |
| 3) Chloromethane | 2.359 | 50 | 2801 | 1.145 ug/l | 93 |
| 4) Vinyl Chloride | 2.512 | 62 | 2732 | 1.111 ug/l # | 81 |
| 6) Chloroethane | 3.124 | 64 | 1809 | 1.160 ug/l | 94 |
| 7) Trichlorofluoromethane | 3.512 | 101 | 3860 | 1.082 ug/l | 88 |
| 8) Diethyl Ether | 3.953 | 74 | 1526 | 1.238 ug/l | 81 |
| 9) 1,1,2-Trichlorotrifluo... | 4.359 | 101 | 2156m | 1.073 ug/l | |
| 12) 1,1-Dichloroethene | 4.330 | 96 | 1660 | 0.927 ug/l # | 67 |
| 14) Allyl chloride | 5.024 | 41 | 3179 | 1.094 ug/l # | 85 |
| 15) Acrylonitrile | 5.718 | 53 | 4967 | 5.070 ug/l # | 70 |
| 16) Acetone | 4.436 | 43 | 5102 | 5.862 ug/l | 92 |
| 17) Carbon Disulfide | 4.706 | 76 | 6601 | 1.197 ug/l # | 87 |
| 18) Methyl Acetate | 5.030 | 43 | 2908 | 1.099 ug/l # | 80 |
| 19) Methyl tert-butyl Ether | 5.789 | 73 | 5156 | 0.887 ug/l # | 87 |
| 20) Methylene Chloride | 5.265 | 84 | 2190 | 1.016 ug/l # | 87 |
| 21) trans-1,2-Dichloroethene | 5.794 | 96 | 2110 | 1.102 ug/l # | 66 |
| 22) Diisopropyl ether | 6.677 | 45 | 5691 | 0.882 ug/l # | 88 |
| 23) Vinyl Acetate | 6.606 | 43 | 18526m | 4.090 ug/l | |
| 24) 1,1-Dichloroethane | 6.583 | 63 | 4020m | 1.022 ug/l | |
| 25) 2-Butanone | 7.483 | 43 | 6448m | 5.034 ug/l | |
| 26) 2,2-Dichloropropane | 7.488 | 77 | 3104 | 0.976 ug/l | 92 |
| 27) cis-1,2-Dichloroethene | 7.477 | 96 | 2185 | 0.969 ug/l | 92 |
| 28) Bromochloromethane | 7.812 | 49 | 2082 | 1.138 ug/l # | 89 |
| 29) Tetrahydrofuran | 7.835 | 42 | 3693 | 4.548 ug/l | 98 |
| 30) Chloroform | 7.965 | 83 | 4250 | 1.045 ug/l # | 80 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 3678 | 1.031 ug/l # | 56 |
| 36) 1,1-Dichloropropene | 8.371 | 75 | 3084 | 1.046 ug/l # | 84 |
| 37) Ethyl Acetate | 7.577 | 43 | 3056m | 1.026 ug/l | |
| 38) Carbon Tetrachloride | 8.359 | 117 | 3436 | 1.018 ug/l | 90 |
| 39) Methylcyclohexane | 9.600 | 83 | 2403 | 0.867 ug/l # | 87 |
| 40) Benzene | 8.606 | 78 | 8480 | 0.957 ug/l | 91 |
| 41) Methacrylonitrile | 7.771 | 41 | 1458 | 0.941 ug/l # | 76 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 3131 | 0.938 ug/l | 91 |
| 43) Isopropyl Acetate | 8.682 | 43 | 4803 | 1.007 ug/l # | 87 |
| 44) Trichloroethene | 9.347 | 130 | 2133 | 1.034 ug/l | 71 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 2246 | 0.992 ug/l | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085443.D
Acq On : 14 Jan 2025 17:19
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 15 01:46:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 46) Dibromomethane | 9.706 | 93 | 1769 | 1.083 ug/l | 92 |
| 47) Bromodichloromethane | 9.882 | 83 | 2935 | 0.882 ug/l | 90 |
| 48) Methyl methacrylate | 9.677 | 41 | 1886 | 0.878 ug/l | 96 |
| 49) 1,4-Dioxane | 9.688 | 88 | 673 | 18.616 ug/l # | 47 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 11523 | 4.163 ug/l | 93 |
| 52) Toluene | 10.618 | 92 | 4180 | 0.814 ug/l | 93 |
| 53) t-1,3-Dichloropropene | 10.835 | 75 | 2522 | 0.802 ug/l | 92 |
| 54) cis-1,3-Dichloropropene | 10.312 | 75 | 2725 | 0.811 ug/l # | 83 |
| 55) 1,1,2-Trichloroethane | 11.018 | 97 | 1901 | 0.935 ug/l | 91 |
| 56) Ethyl methacrylate | 10.871 | 69 | 1923 | 2.471 ug/l # | 88 |
| 57) 1,3-Dichloropropane | 11.165 | 76 | 3113 | 0.881 ug/l | 95 |
| 58) 2-Chloroethyl Vinyl ether | 10.153 | 63 | 4929 | 3.822 ug/l | 91 |
| 59) 2-Hexanone | 11.194 | 43 | 7905 | 4.058 ug/l | 87 |
| 60) Dibromochloromethane | 11.359 | 129 | 2339 | 0.953 ug/l | 98 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 2022 | 1.000 ug/l | 90 |
| 64) Tetrachloroethene | 11.106 | 164 | 1658 | 0.947 ug/l # | 83 |
| 65) Chlorobenzene | 11.888 | 112 | 5401 | 0.960 ug/l | 93 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 2185 | 1.058 ug/l # | 64 |
| 67) Ethyl Benzene | 11.959 | 91 | 7347 | 0.802 ug/l | 94 |
| 68) m/p-Xylenes | 12.070 | 106 | 5059 | 1.494 ug/l | 100 |
| 69) o-Xylene | 12.394 | 106 | 2478 | 0.766 ug/l | 97 |
| 70) Styrene | 12.406 | 104 | 3812 | 0.712 ug/l | 99 |
| 71) Bromoform | 12.582 | 173 | 1208 | 0.818 ug/l # | 88 |
| 73) Isopropylbenzene | 12.688 | 105 | 5506 | 0.820 ug/l | 98 |
| 74) N-amyl acetate | 12.494 | 43 | 2716 | 0.899 ug/l # | 87 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 2616 | 1.102 ug/l # | 96 |
| 76) 1,2,3-Trichloropropane | 12.982 | 75 | 2198m | 1.088 ug/l | |
| 77) Bromobenzene | 12.976 | 156 | 1733 | 0.987 ug/l | 97 |
| 78) n-propylbenzene | 13.029 | 91 | 6424 | 0.808 ug/l | 93 |
| 79) 2-Chlorotoluene | 13.117 | 91 | 4483 | 0.871 ug/l | 97 |
| 80) 1,3,5-Trimethylbenzene | 13.165 | 105 | 4301 | 0.775 ug/l | 90 |
| 82) 4-Chlorotoluene | 13.223 | 91 | 4268 | 0.833 ug/l | 99 |
| 83) tert-Butylbenzene | 13.435 | 119 | 3753 | 0.805 ug/l | 96 |
| 84) 1,2,4-Trimethylbenzene | 13.482 | 105 | 3758 | 0.679 ug/l | 93 |
| 85) sec-Butylbenzene | 13.612 | 105 | 4614 | 0.714 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.723 | 119 | 3538 | 0.716 ug/l | 98 |
| 87) 1,3-Dichlorobenzene | 13.723 | 146 | 3038 | 0.940 ug/l | 95 |
| 88) 1,4-Dichlorobenzene | 13.806 | 146 | 3517m | 1.050 ug/l | |
| 89) n-Butylbenzene | 14.053 | 91 | 3527 | 0.761 ug/l | 93 |
| 90) Hexachloroethane | 14.341 | 117 | 1355 | 1.102 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 3515 | 1.090 ug/l | 96 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.711 | 75 | 402 | 0.928 ug/l | 74 |
| 93) 1,2,4-Trichlorobenzene | 15.394 | 180 | 1310 | 0.874 ug/l # | 80 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 822 | 1.033 ug/l | 89 |
| 95) Naphthalene | 15.641 | 128 | 4210 | 0.941 ug/l # | 90 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 1494 | 0.985 ug/l # | 86 |

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

Quantitation Report (QT Reviewed)

ICAL Form

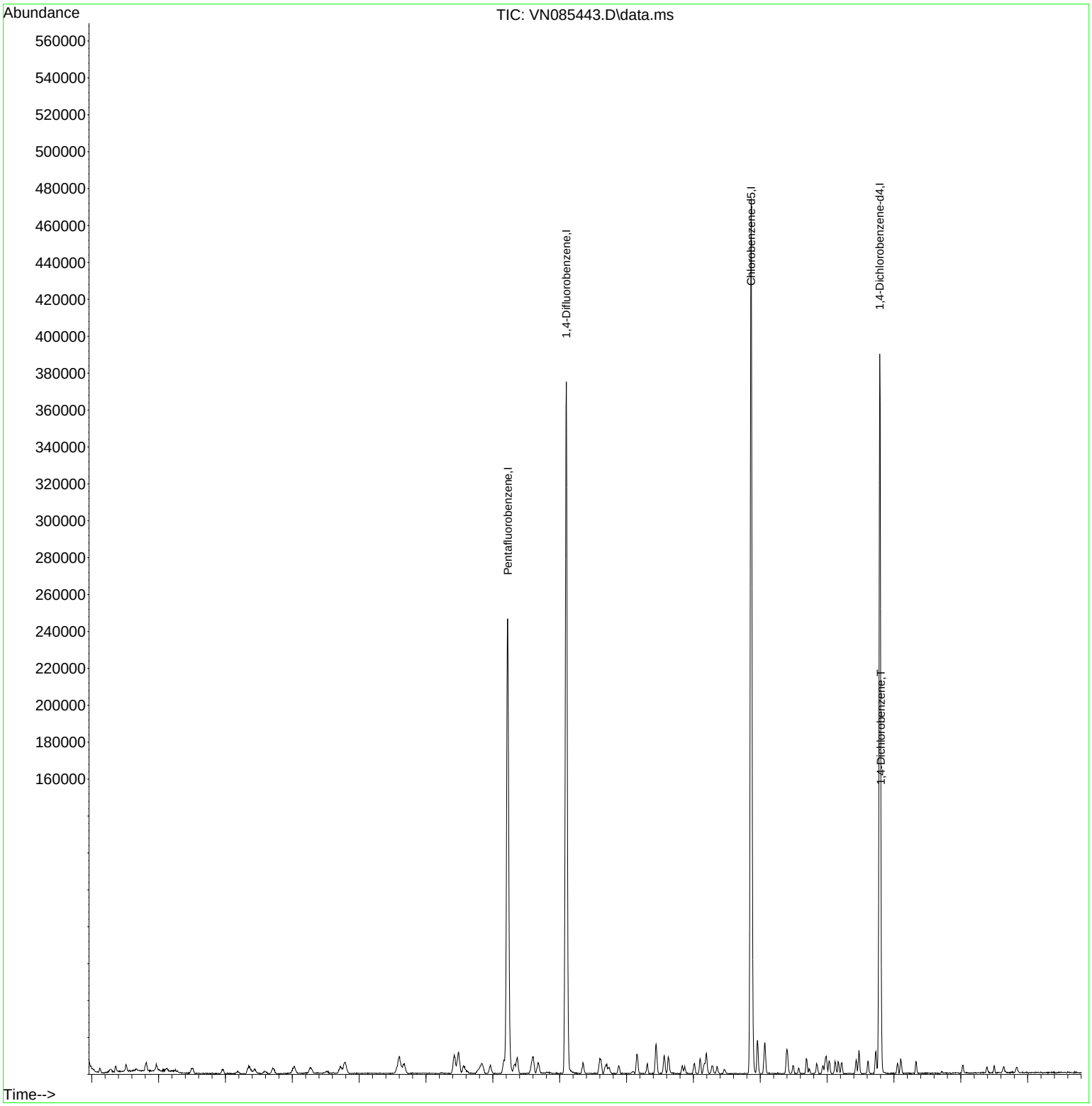
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085443.D
Acq On : 14 Jan 2025 17:19
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

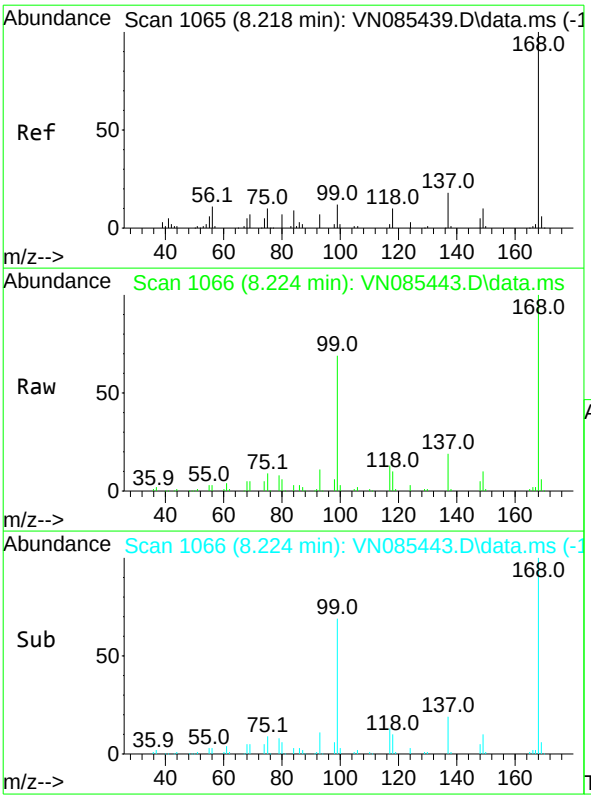
Quant Time: Jan 15 01:46:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

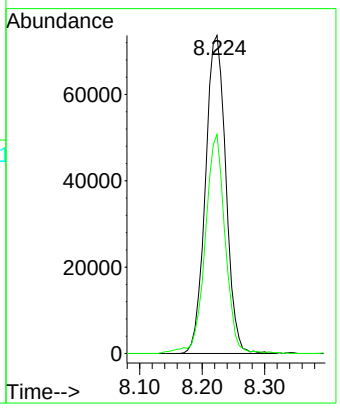
Tgt Ion:168 Resp: 166880

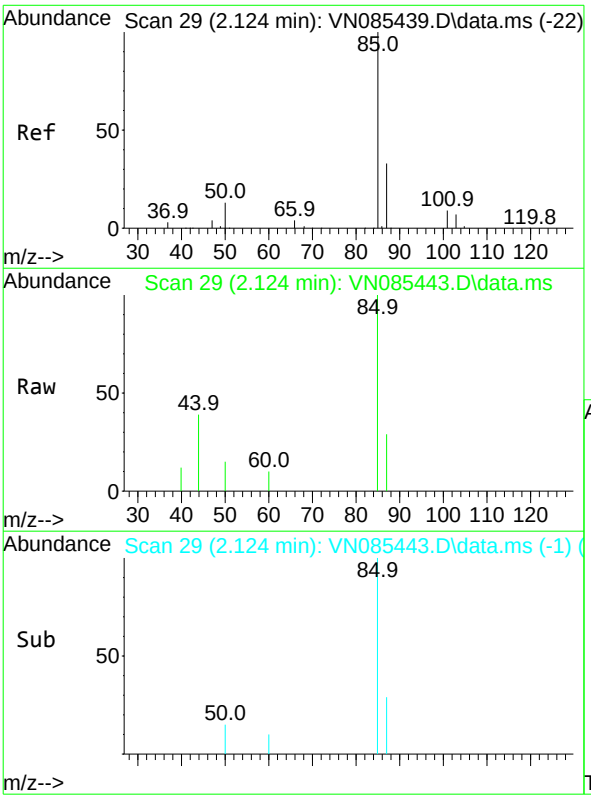
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 68.6 | 53.6 | 80.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

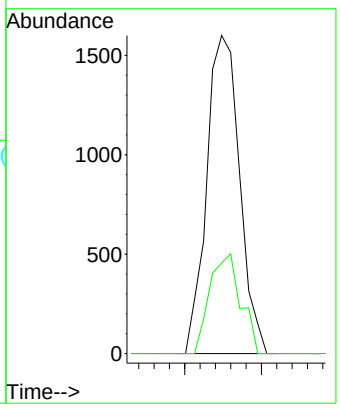


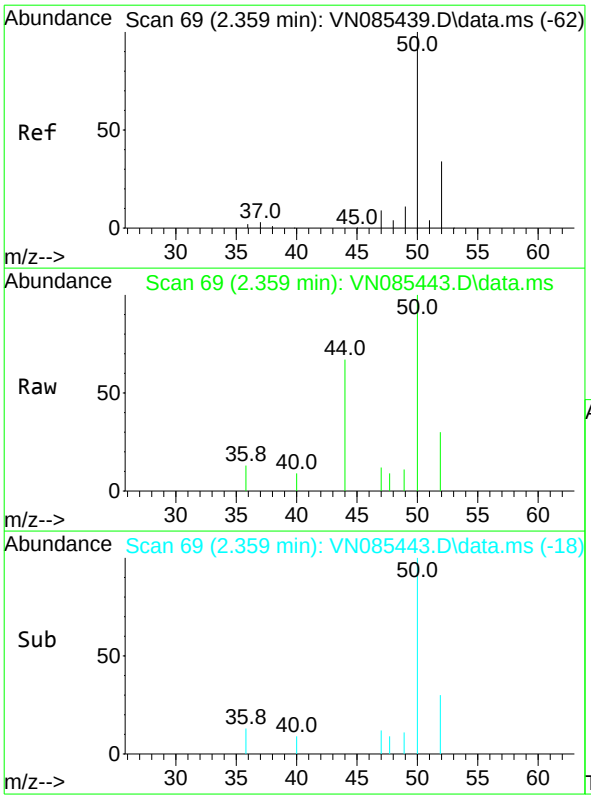




#2
Dichlorodifluoromethane
Concen: 1.054 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 85 Resp: 2382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 28.5 | 16.7 | 50.1 |






#3
Chloromethane
Concen: 1.145 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

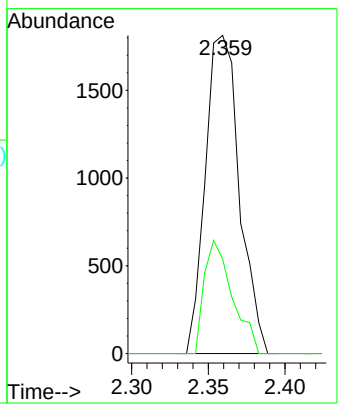
Tgt Ion: 50 Resp: 2801

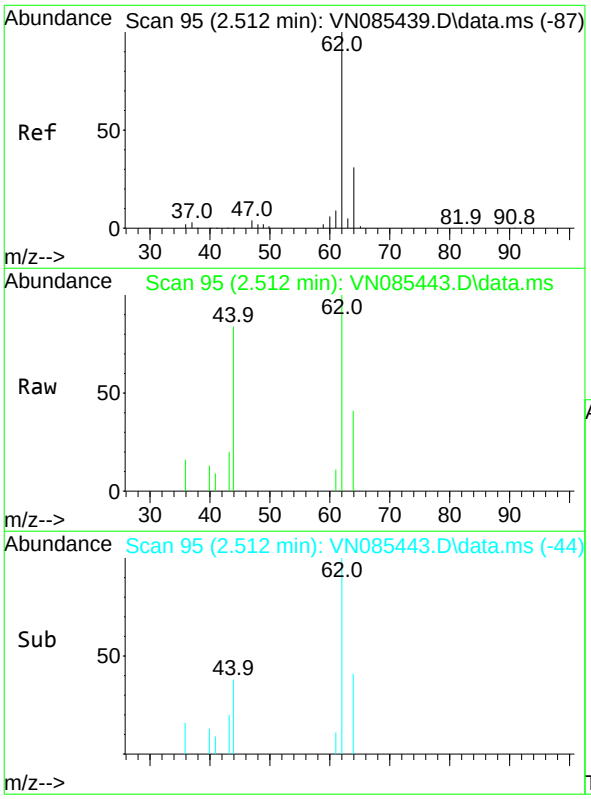
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 29.7 | 27.0 | 40.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

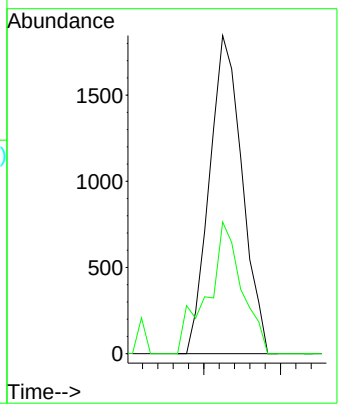


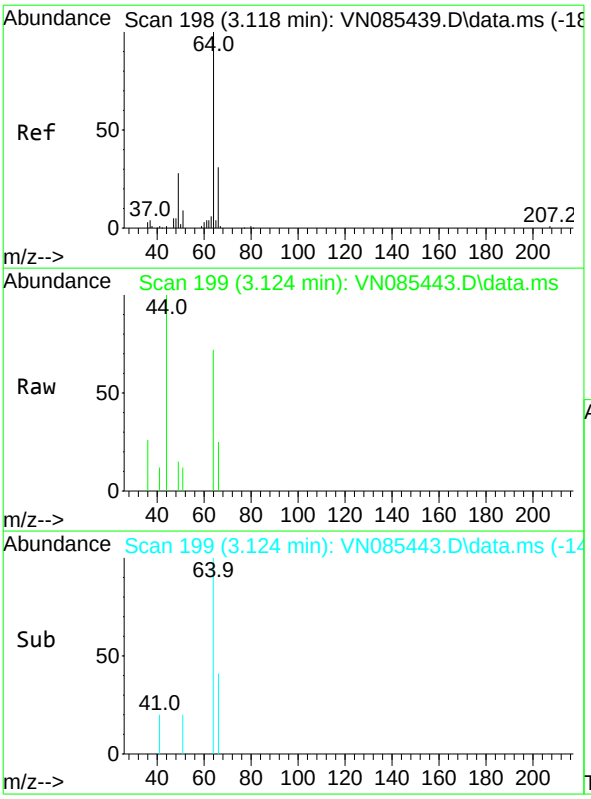




#4
Vinyl Chloride
Concen: 1.111 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 62 Resp: 2732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 41.4 | 24.8 | 37.2# |






#6
Chloroethane
Concen: 1.160 ug/l
RT: 3.124 min Scan# 19
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

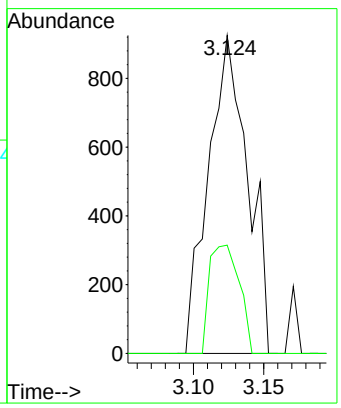
Tgt Ion: 64 Resp: 1809

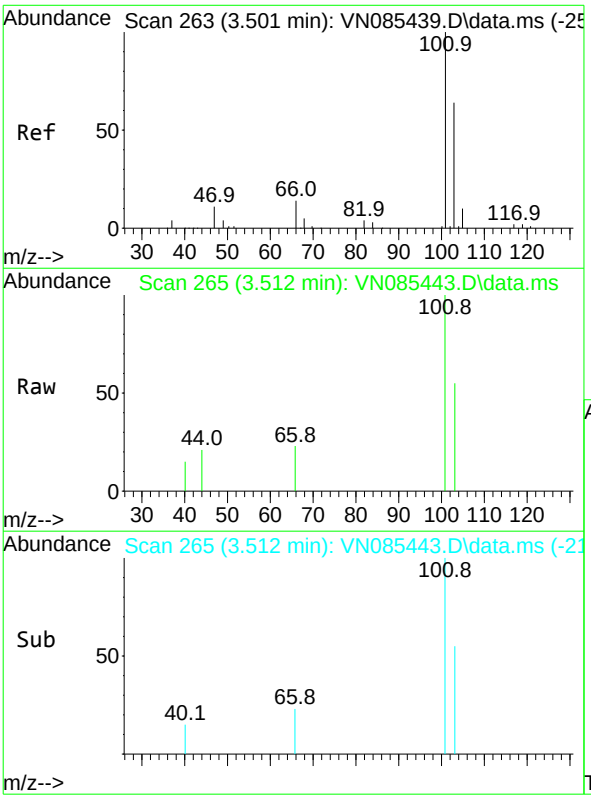
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.1 | 24.6 | 36.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

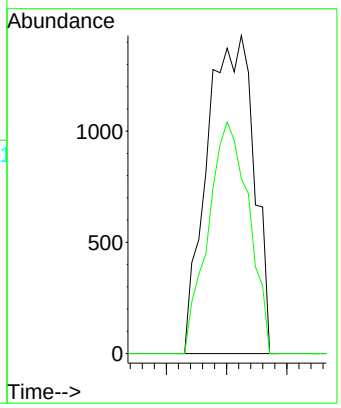


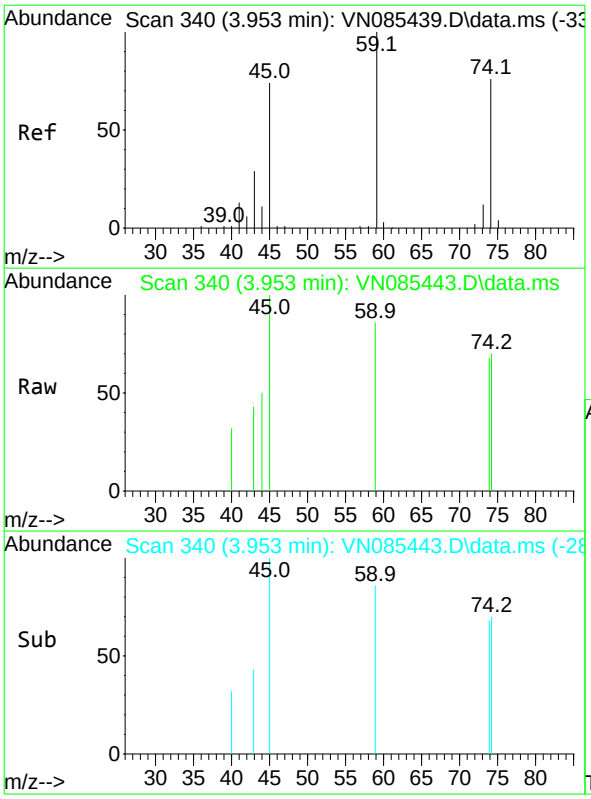




#7
Trichlorofluoromethane
Concen: 1.082 ug/l
RT: 3.512 min Scan# 265
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:101 Resp: 3860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 55.0 | 51.4 | 77.2 |






#8
Diethyl Ether
Concen: 1.238 ug/l
RT: 3.953 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 74 Resp: 1526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 80.9 | 49.7 | 149.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

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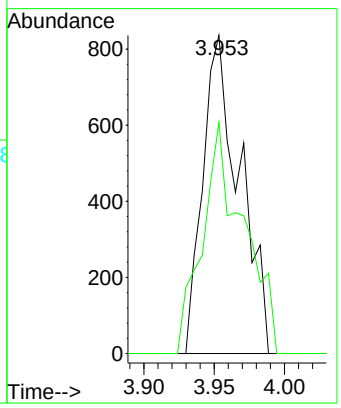
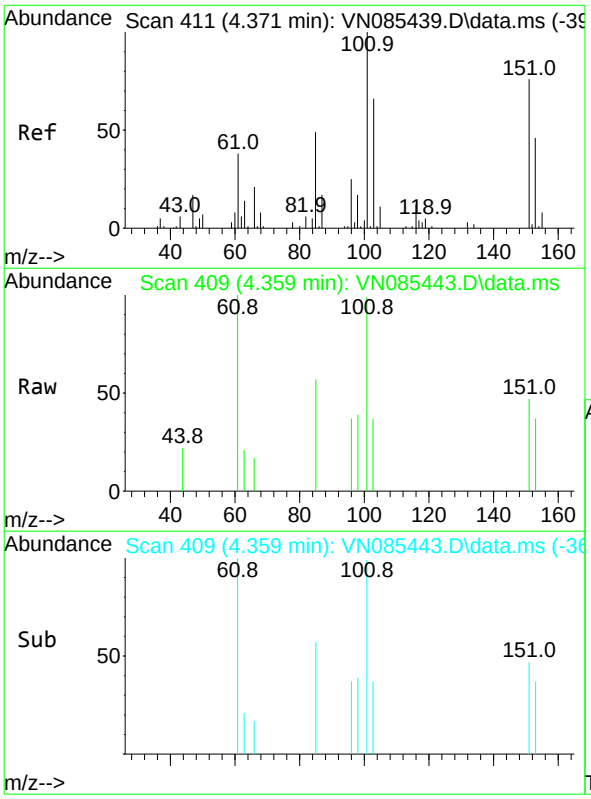
Supervised By :Mahesh Dadoda 01/15/2025

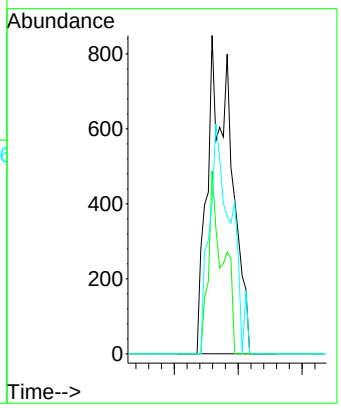


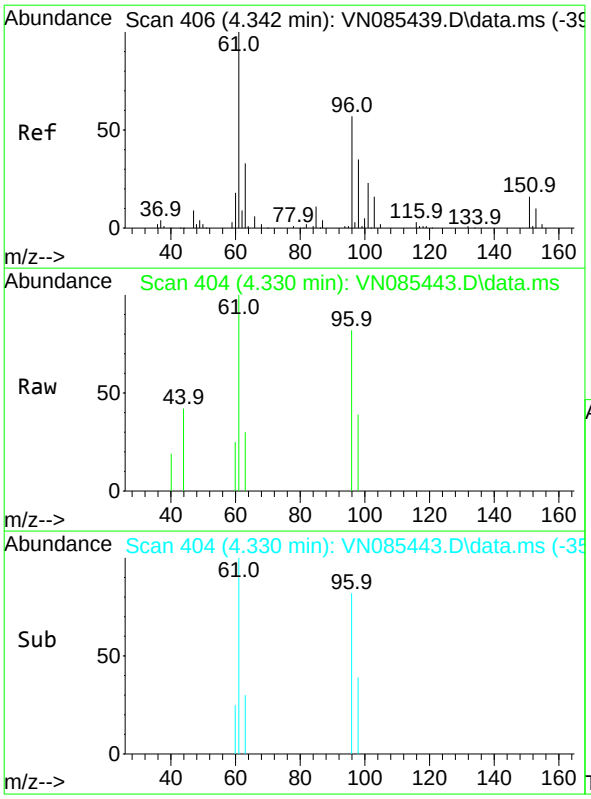




#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.073 ug/l m
RT: 4.359 min Scan# 409
Delta R.T. -0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:101 Resp: 2156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 35.3 | 37.8 | 56.8# |
| 151 | 66.4 | 58.8 | 88.2 |






#12
1,1-Dichloroethene
Concen: 0.927 ug/l
RT: 4.330 min Scan# 40
Delta R.T. -0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 96 Resp: 1660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 122.1 | 141.0 | 211.4# |
| 98 | 48.1 | 49.0 | 73.6# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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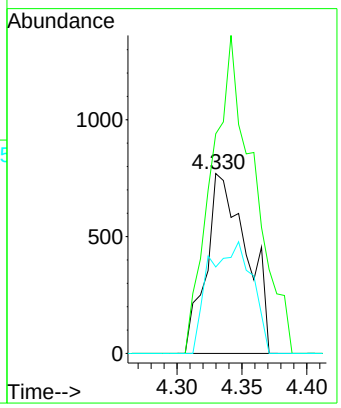
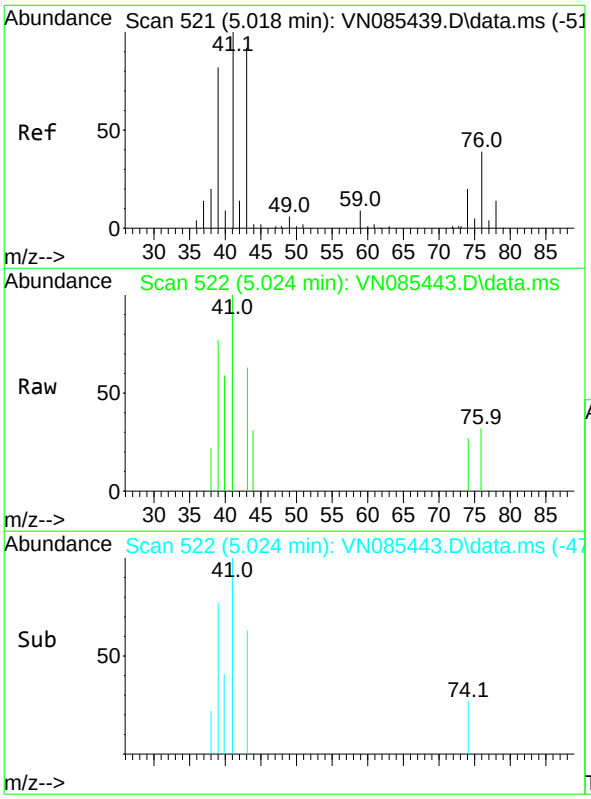
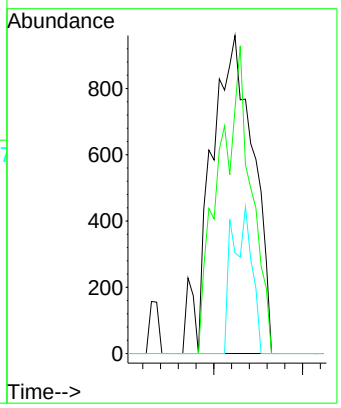


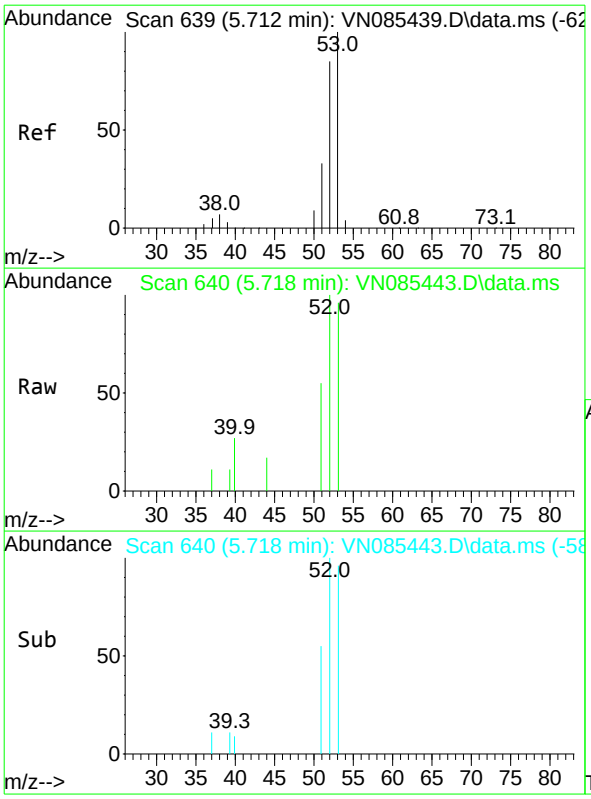




#14
Allyl chloride
Concen: 1.094 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 41 Resp: 3179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 73.1 | 64.4 | 96.6 |
| 76 | 21.4 | 30.5 | 45.7# |






#15
Acrylonitrile
Concen: 5.070 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

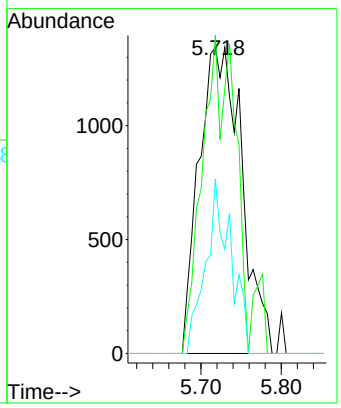
Tgt Ion: 53 Resp: 4967

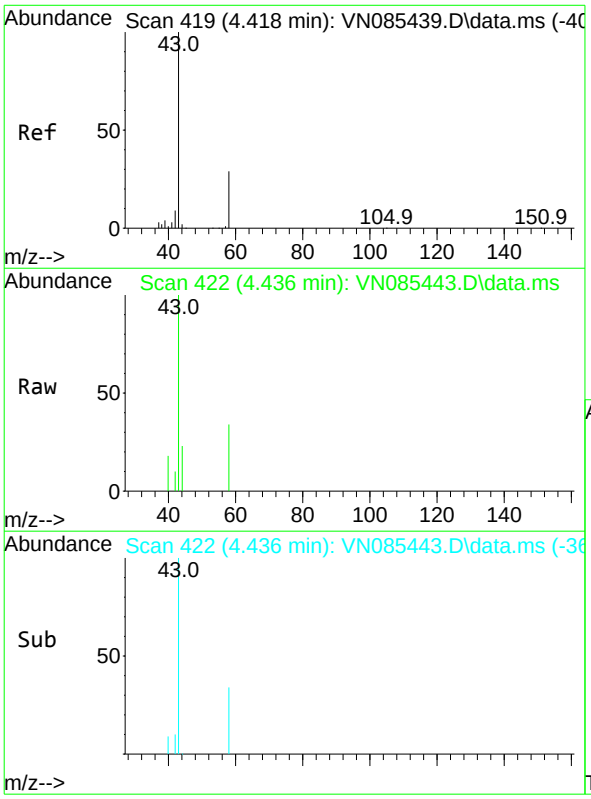
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 45.1 | 65.5 | 98.3# |
| 51 | 33.3 | 29.8 | 44.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

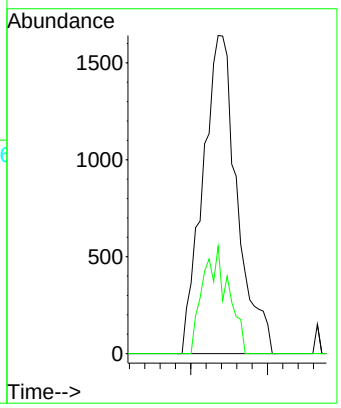


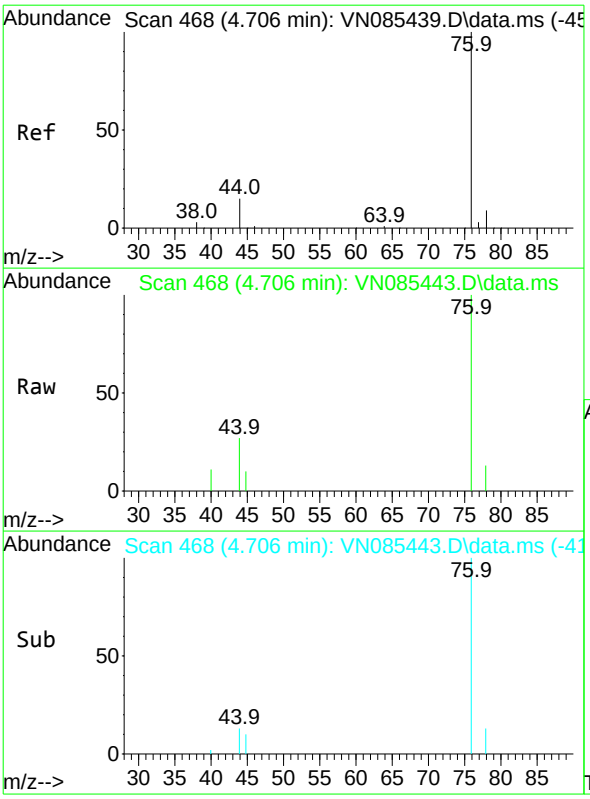




#16
Acetone
Concen: 5.862 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 5102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.8 | 23.8 | 35.6 |






#17
Carbon Disulfide
Concen: 1.197 ug/l
RT: 4.706 min Scan# 46
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 76 Resp: 6601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 13.2 | 6.9 | 10.3# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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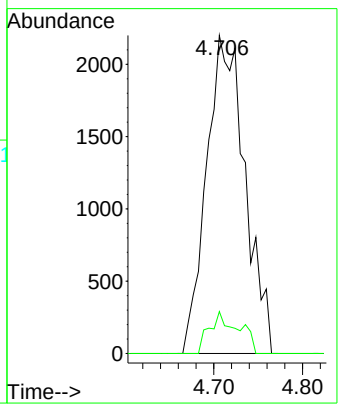
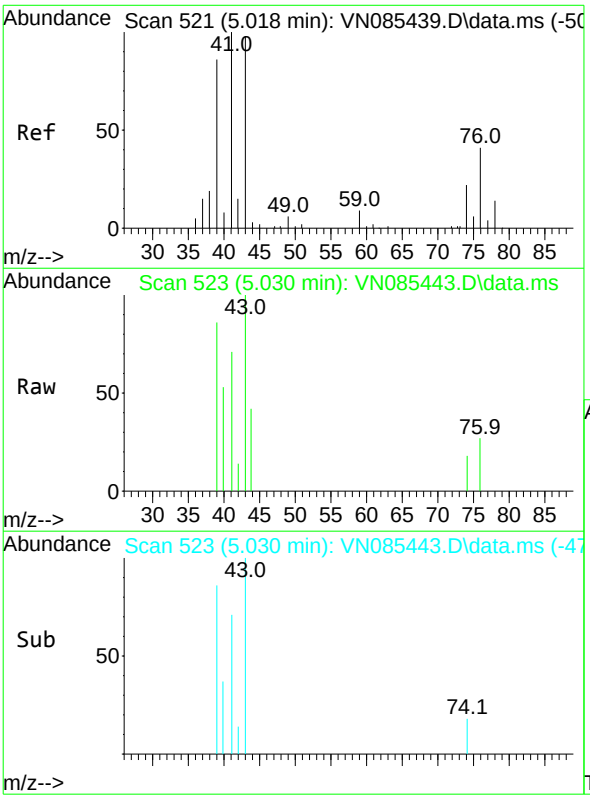
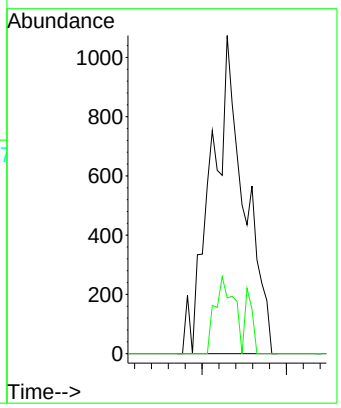


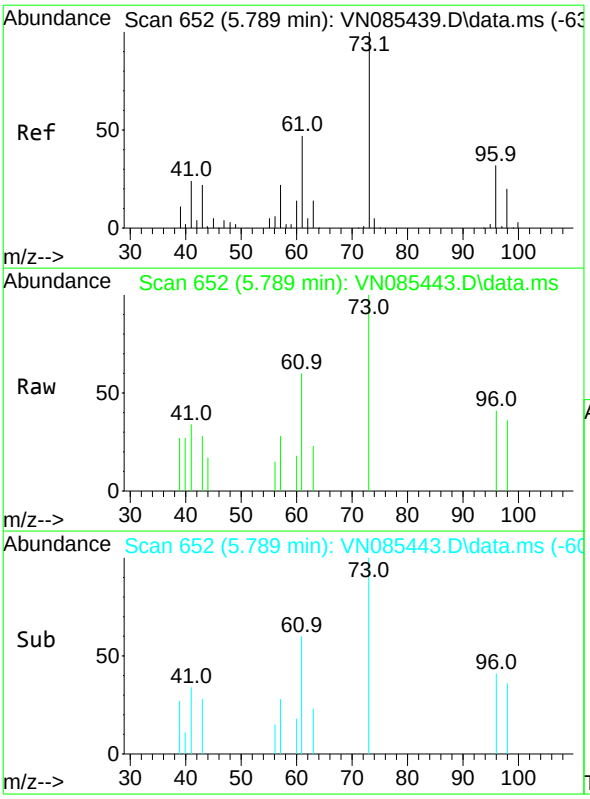




#18
Methyl Acetate
Concen: 1.099 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 2908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 13.8 | 18.6 | 28.0# |






#19
Methyl tert-butyl Ether
Concen: 0.887 ug/l
RT: 5.789 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 73 Resp: 5156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 28.4 | 17.8 | 26.8# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

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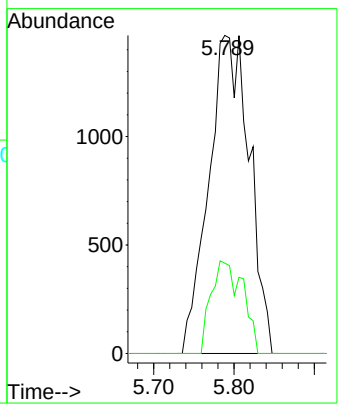
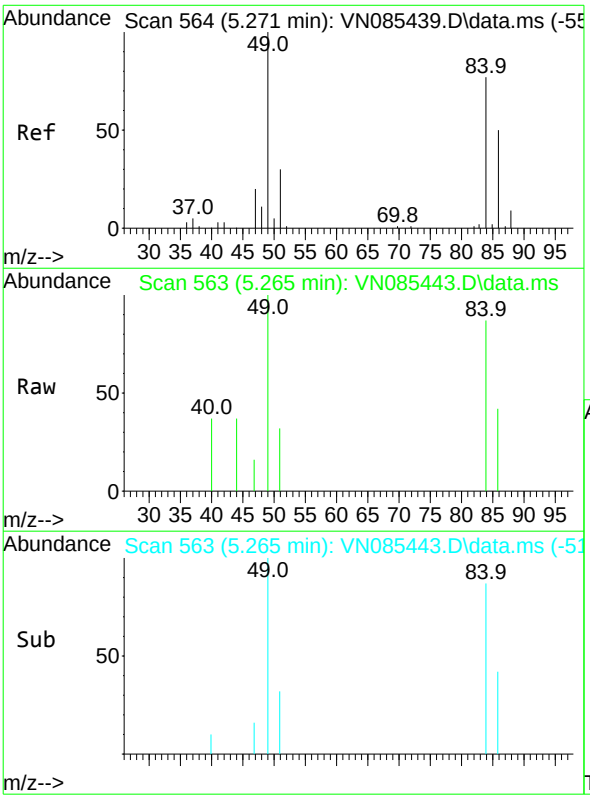
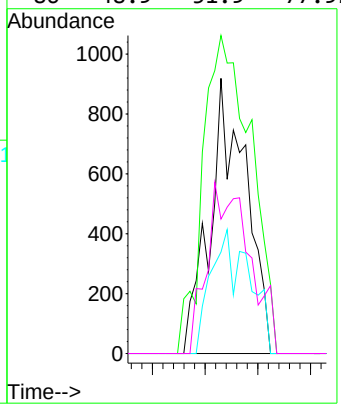


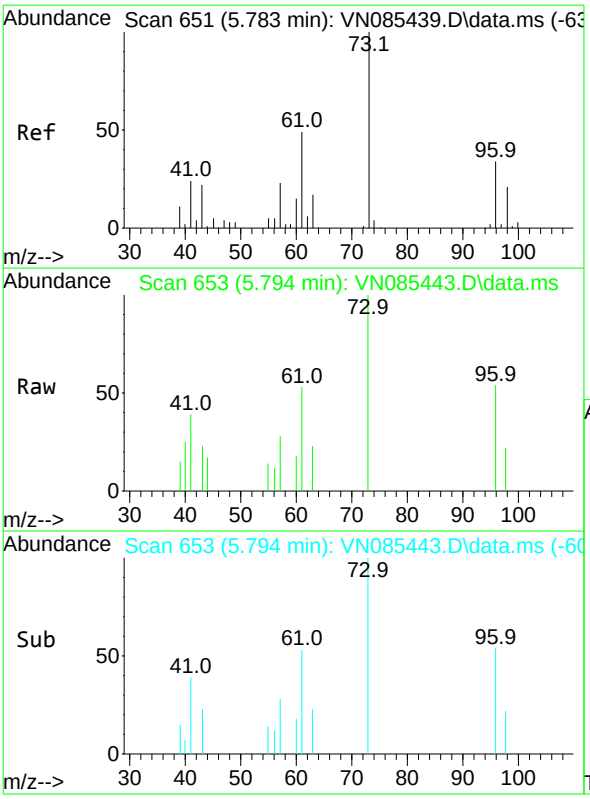




#20
Methylene Chloride
Concen: 1.016 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 84 Resp: 2190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 115.6 | 104.1 | 156.1 |
| 51 | 36.9 | 31.0 | 46.4 |
| 86 | 48.9 | 51.9 | 77.9# |






#21
trans-1,2-Dichloroethene
Concen: 1.102 ug/l
RT: 5.794 min Scan# 65
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 96 Resp: 2110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 98.7 | 115.7 | 173.5# |
| 98 | 41.8 | 49.8 | 74.8# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

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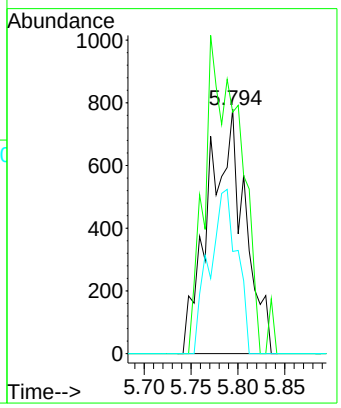
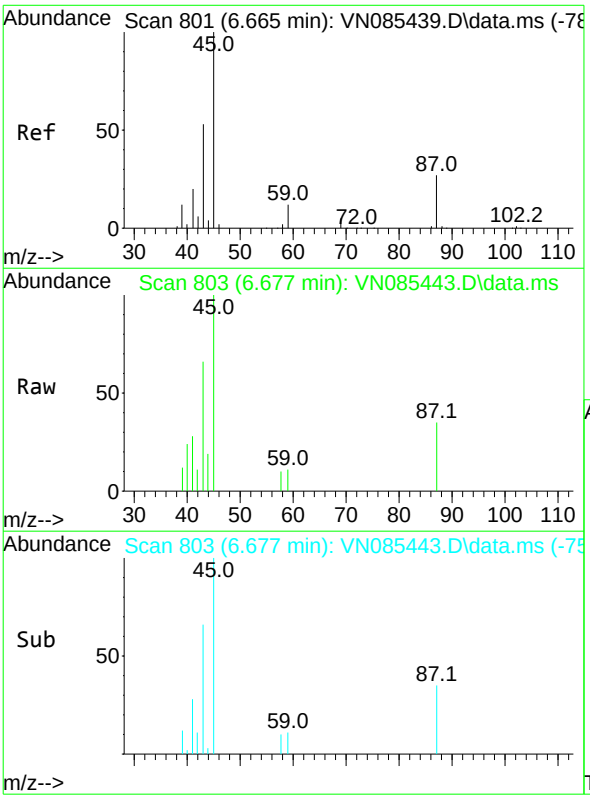
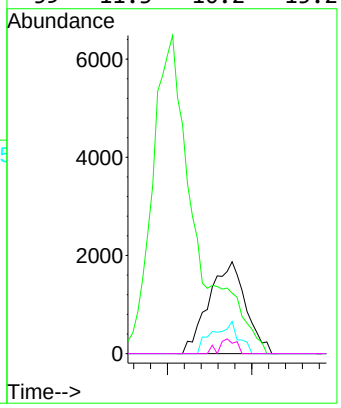


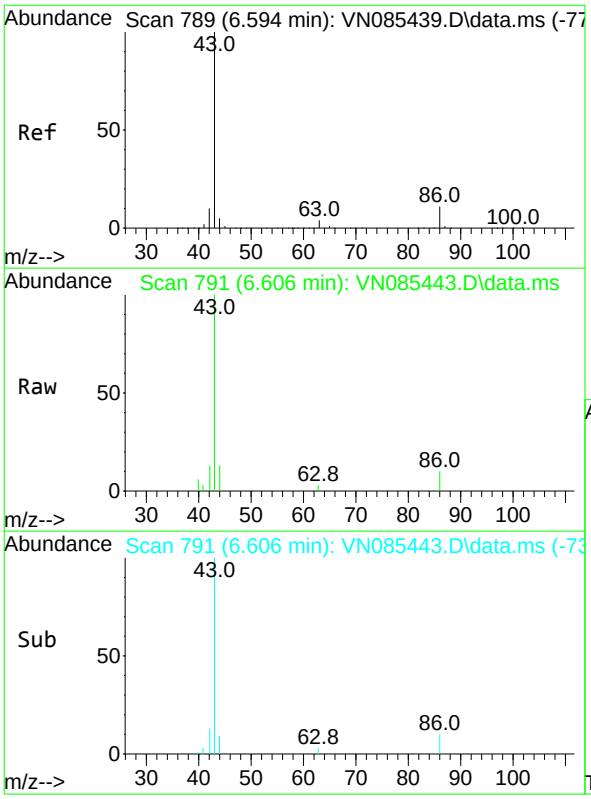




#22
Diisopropyl ether
Concen: 0.882 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 45 Resp: 5691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 65.9 | 45.0 | 67.6 |
| 87 | 35.0 | 21.8 | 32.8# |
| 59 | 11.3 | 10.2 | 15.2 |






#23
Vinyl Acetate
Concen: 4.090 ug/l m
RT: 6.606 min Scan# 79
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 18526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.8 | 8.4 | 12.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

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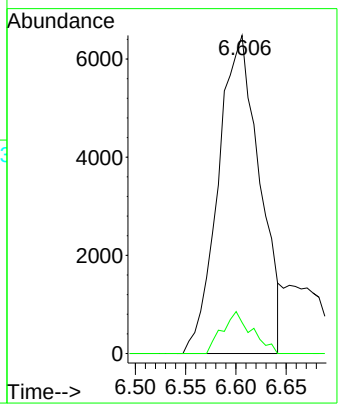
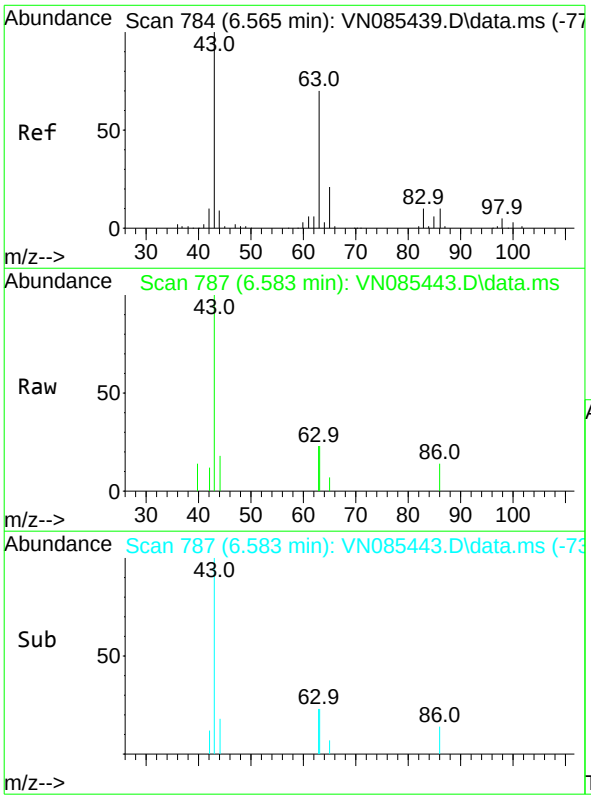
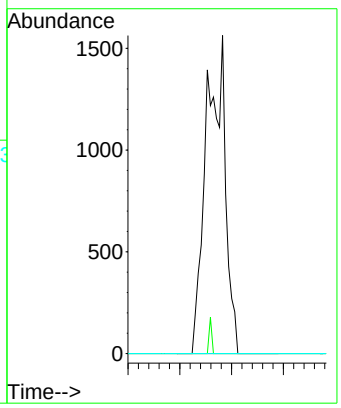


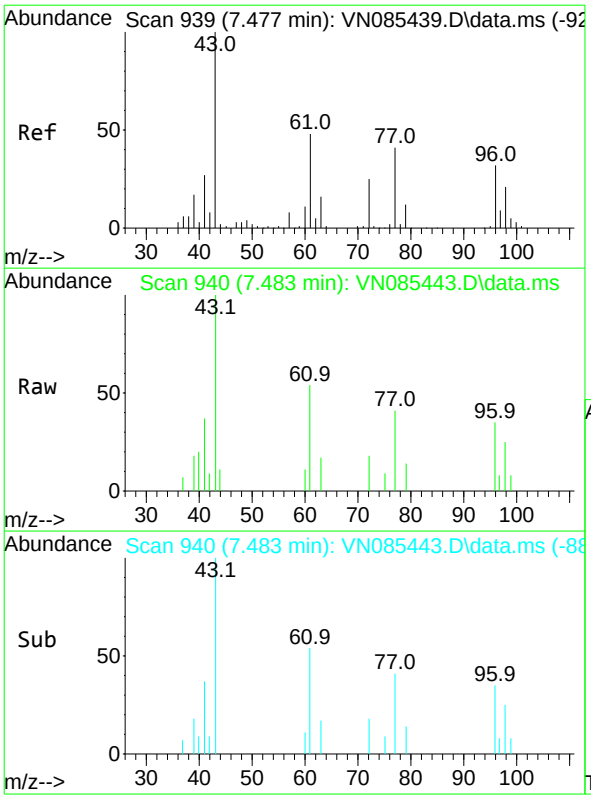




#24
1,1-Dichloroethane
Concen: 1.022 ug/l m
RT: 6.583 min Scan# 787
Delta R.T. 0.018 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 63 Resp: 4020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 0.0 | 3.3 | 9.8# |
| 100 | 0.0 | 2.0 | 6.0# |






#25
2-Butanone
Concen: 5.034 ug/l m
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

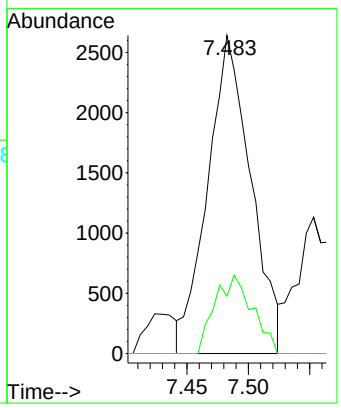
Tgt Ion: 43 Resp: 6448

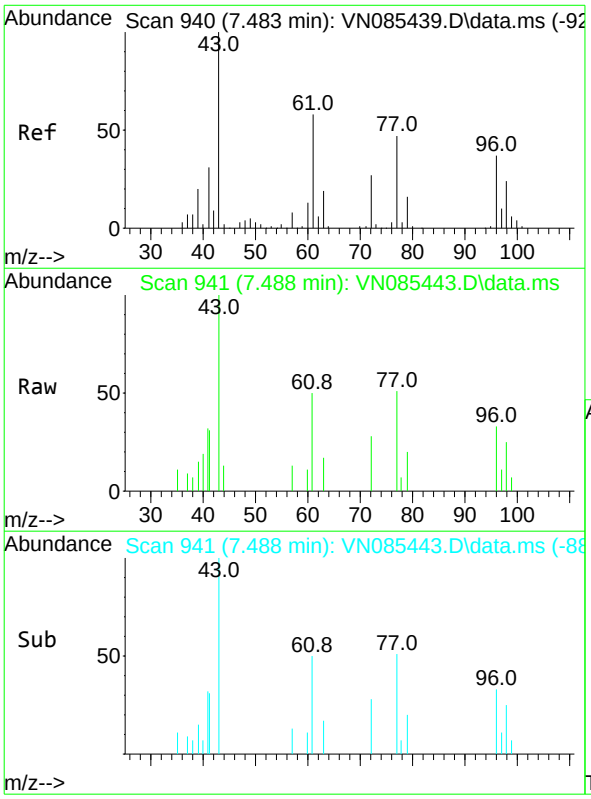
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 18.0 | 20.2 | 30.4# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

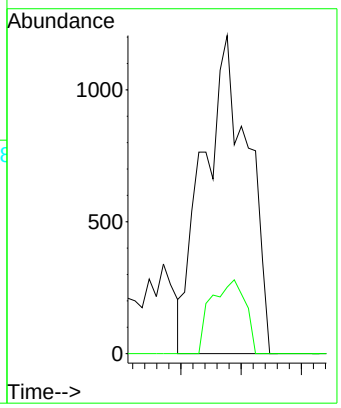


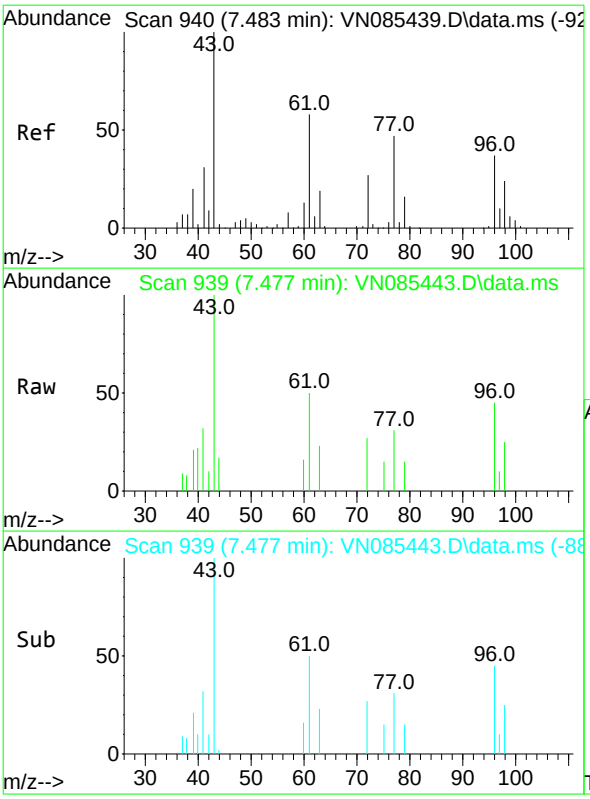




#26
2,2-Dichloropropane
Concen: 0.976 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 77 Resp: 3104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 17.7 | 10.7 | 32.1 |






#27
cis-1,2-Dichloroethene
Concen: 0.969 ug/l
RT: 7.477 min Scan# 93
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 96 Resp: 2185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 166.1 | 0.0 | 311.8 |
| 98 | 68.7 | 0.0 | 126.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

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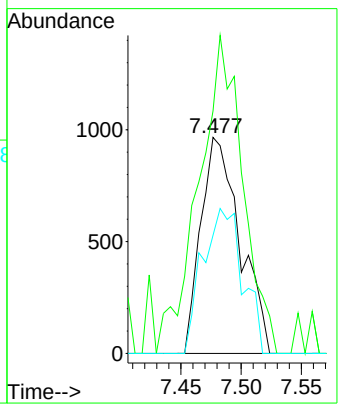
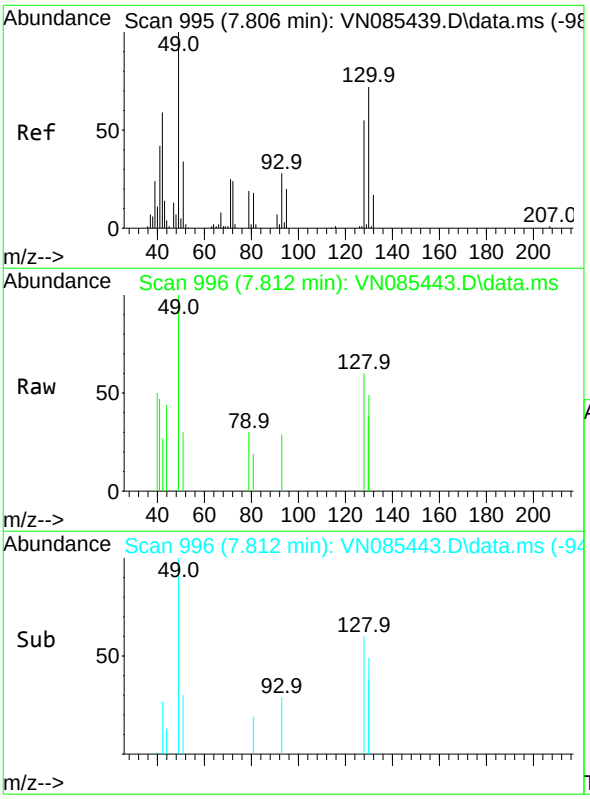
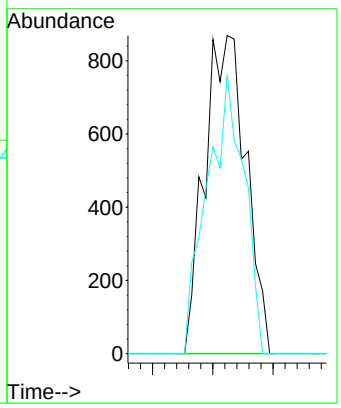


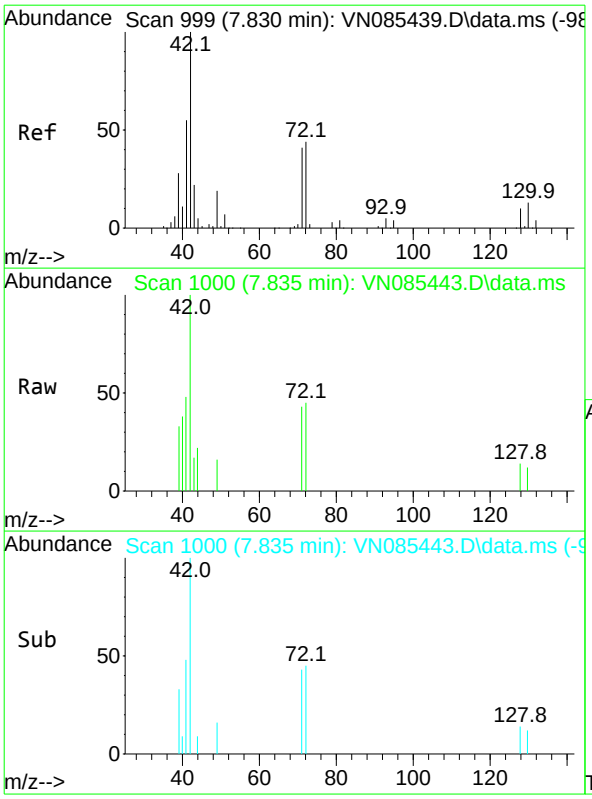




#28
Bromochloromethane
Concen: 1.138 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 49 Resp: 2082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.0 | 0.0 | 4.4 |
| 130 | 78.0 | 55.0 | 82.4 |






#29
Tetrahydrofuran
Concen: 4.548 ug/l
RT: 7.835 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 42 Resp: 3693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 43.1 | 34.2 | 51.2 |
| 71 | 37.9 | 32.5 | 48.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

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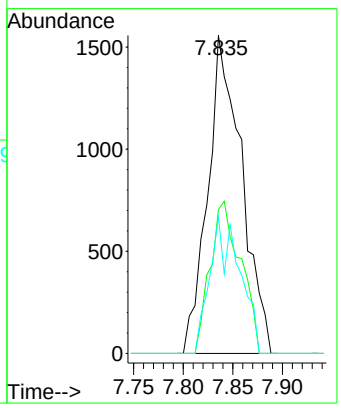
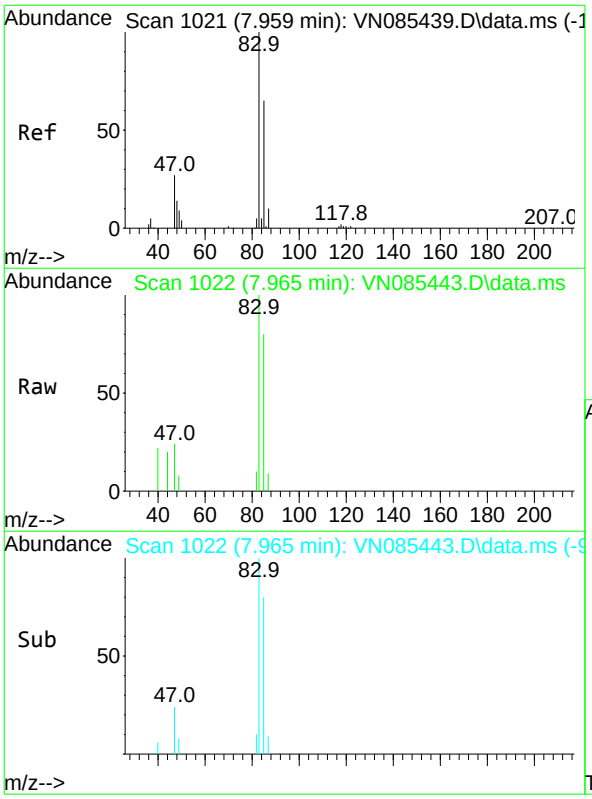
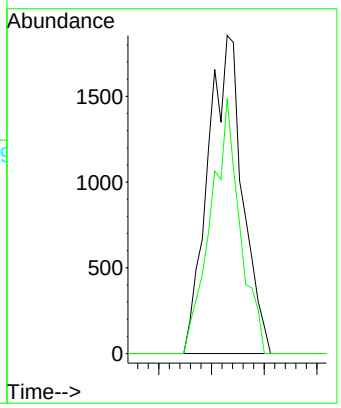


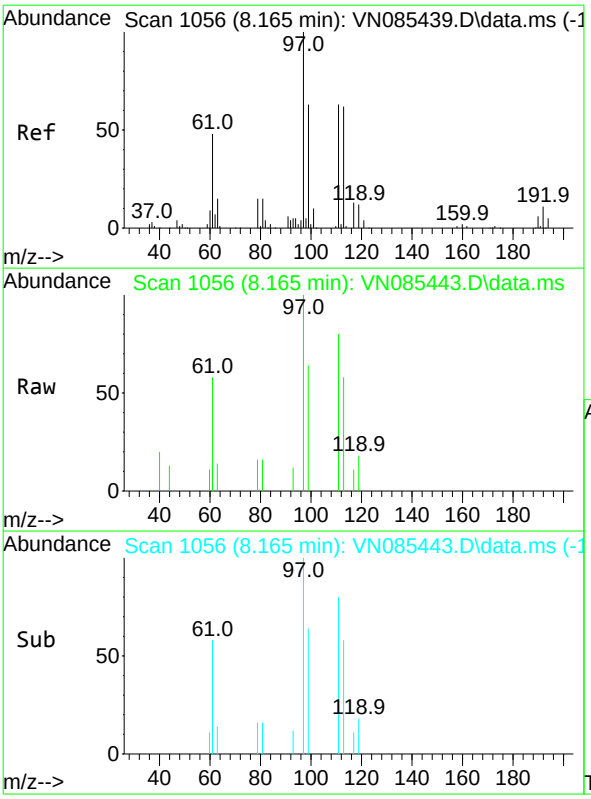




#30
Chloroform
Concen: 1.045 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 83 Resp: 4250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 80.2 | 51.8 | 77.6# |






#32
1,1,1-Trichloroethane
Concen: 1.031 ug/l
RT: 8.165 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 97 Resp: 3678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 0.0 | 49.8 | 74.6# |
| 61 | 52.2 | 41.4 | 62.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

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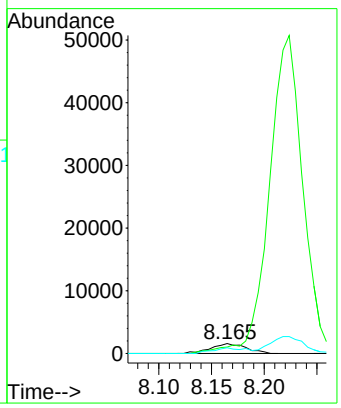
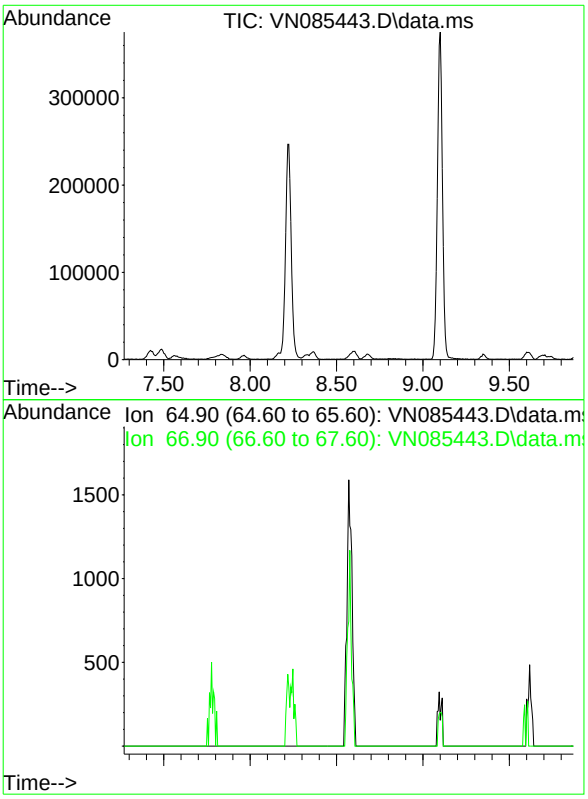


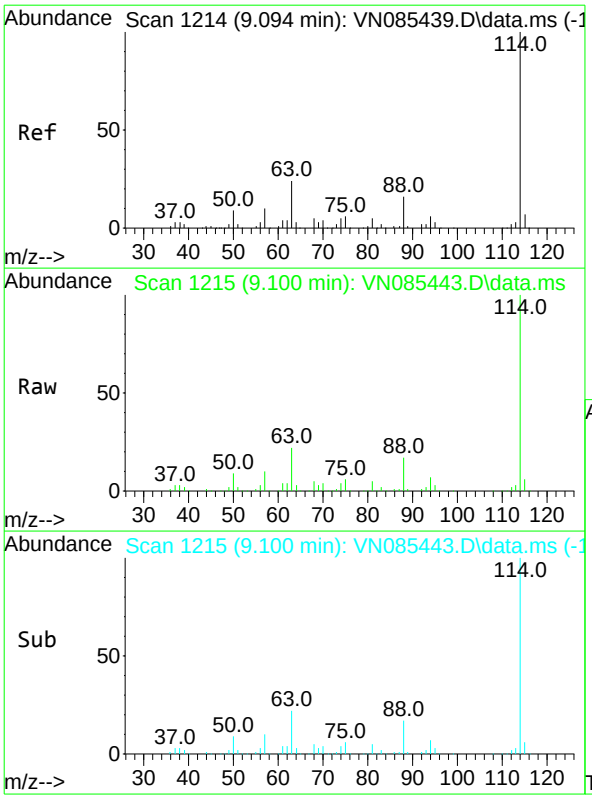




#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 8.57 min

Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 65

| Sig | Exp Ratio |
|---|---|
| 65 | 100 |
| 67 | 50.8 |




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:114 Resp: 302938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.3 | 0.0 | 47.6 |
| 88 | 16.8 | 0.0 | 32.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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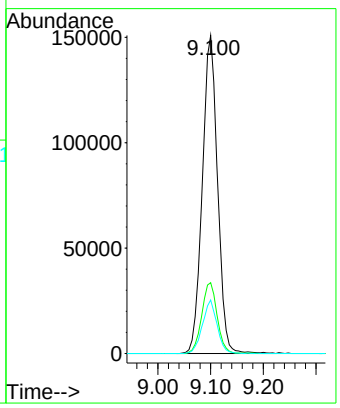
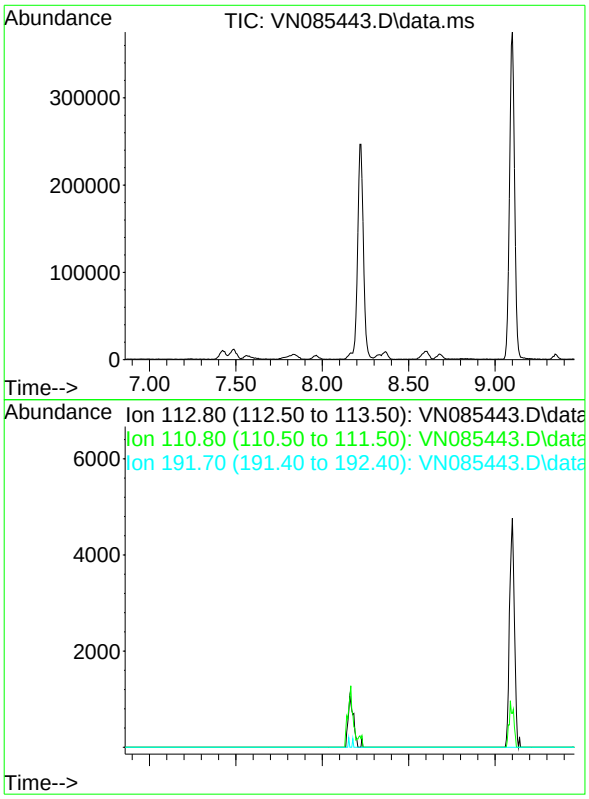


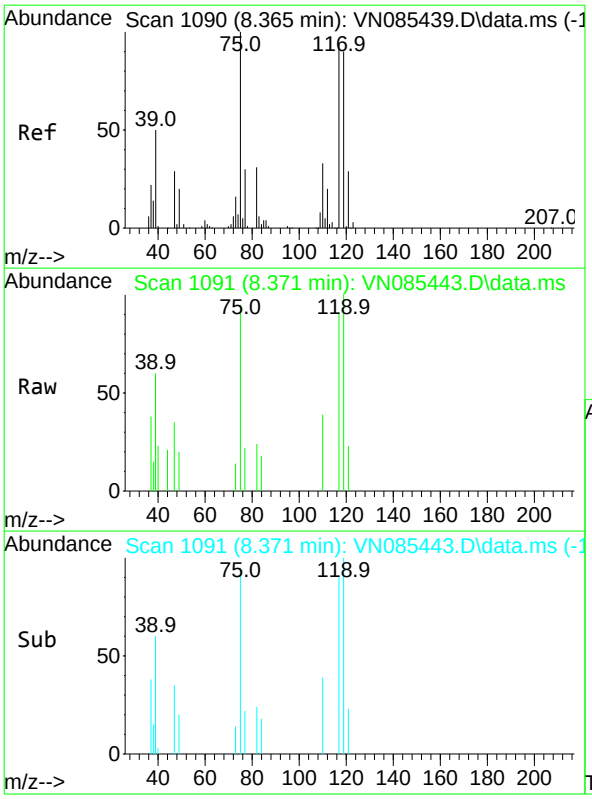




#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 8.16 min

Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 113

| Sig | Exp Ratio |
|---|---|
| 113 | 100 |
| 111 | 103.4 |
| 192 | 17.9 |




#36
1,1-Dichloropropene
Concen: 1.046 ug/l
RT: 8.371 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

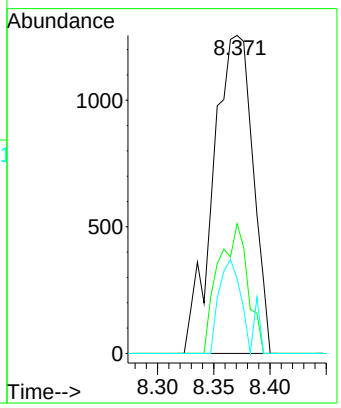
Tgt Ion: 75 Resp: 3084

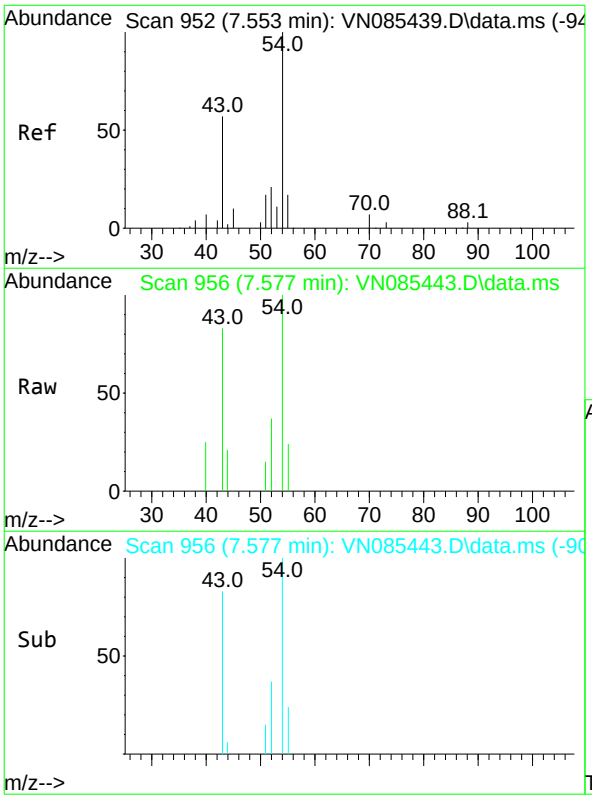
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 30.1 | 16.5 | 49.5 |
| 77 | 15.9 | 24.4 | 36.6# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

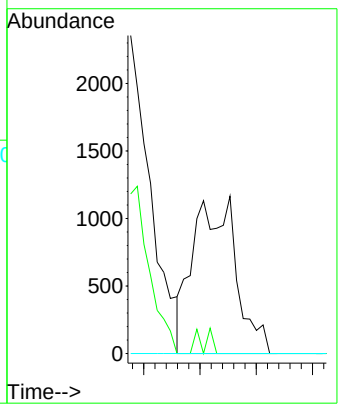


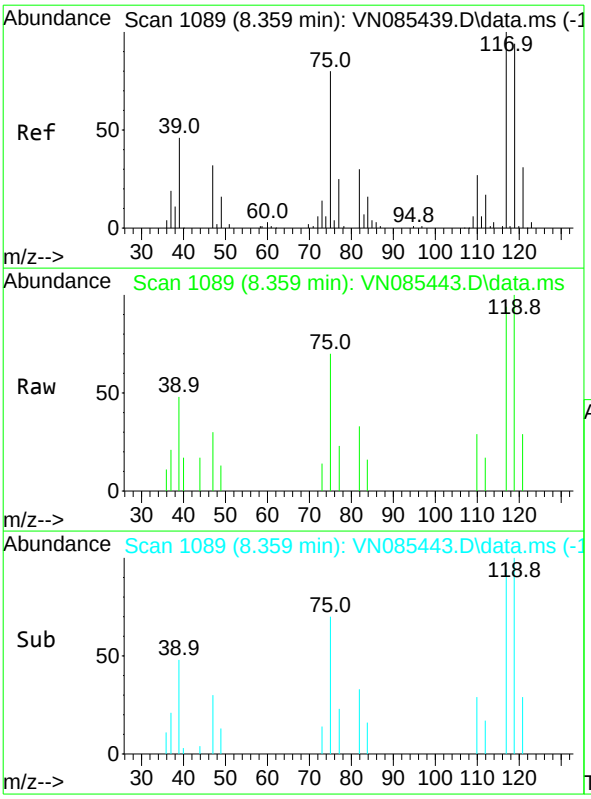




#37
Ethyl Acetate
Concen: 1.026 ug/l m
RT: 7.577 min Scan# 956
Delta R.T. 0.023 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 3056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 4.3 | 10.9 | 16.3# |
| 70 | 0.0 | 7.5 | 11.3# |






#38
Carbon Tetrachloride
Concen: 1.018 ug/l
RT: 8.359 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

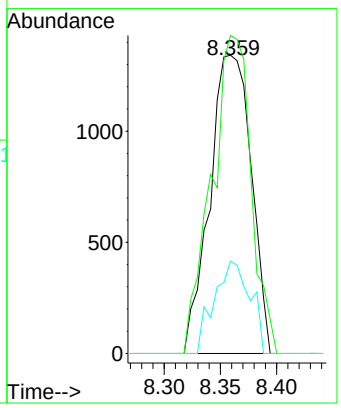
Tgt Ion:117 Resp: 3436

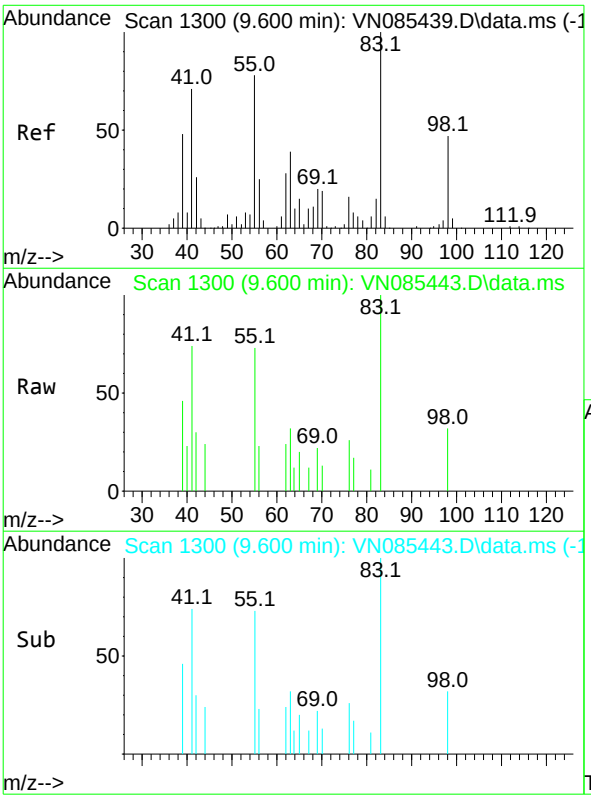
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 106.6 | 75.4 | 113.2 |
| 121 | 31.0 | 24.6 | 37.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

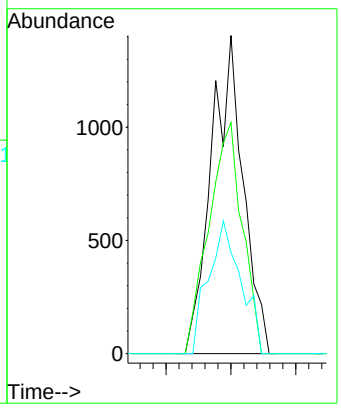


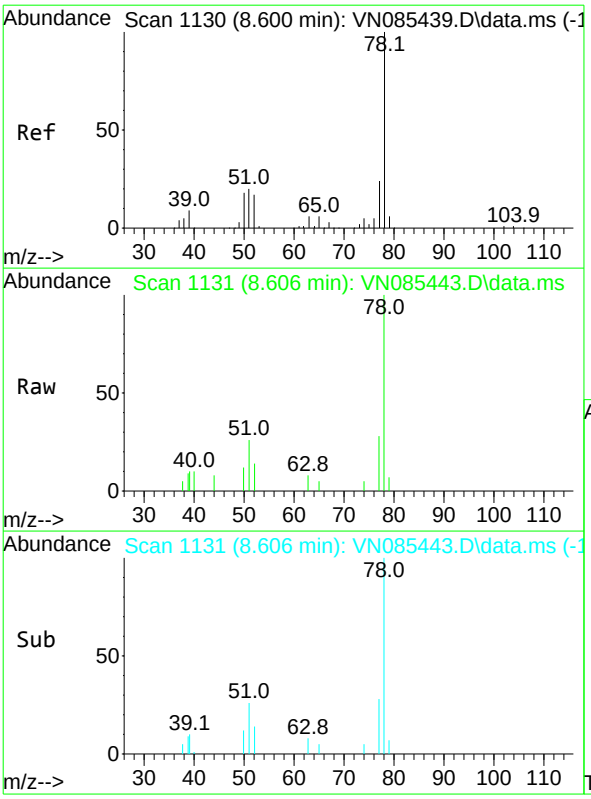




#39
Methylcyclohexane
Concen: 0.867 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 83 Resp: 2403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.7 | 62.6 | 94.0 |
| 98 | 31.8 | 37.7 | 56.5# |






#40
Benzene
Concen: 0.957 ug/l
RT: 8.606 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 78 Resp: 8480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 28.3 | 19.0 | 28.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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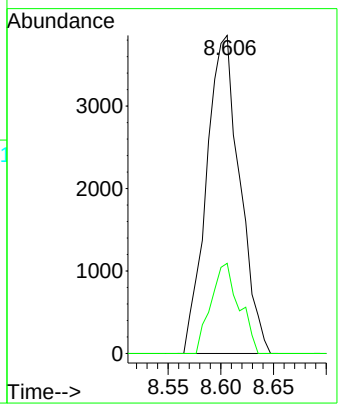
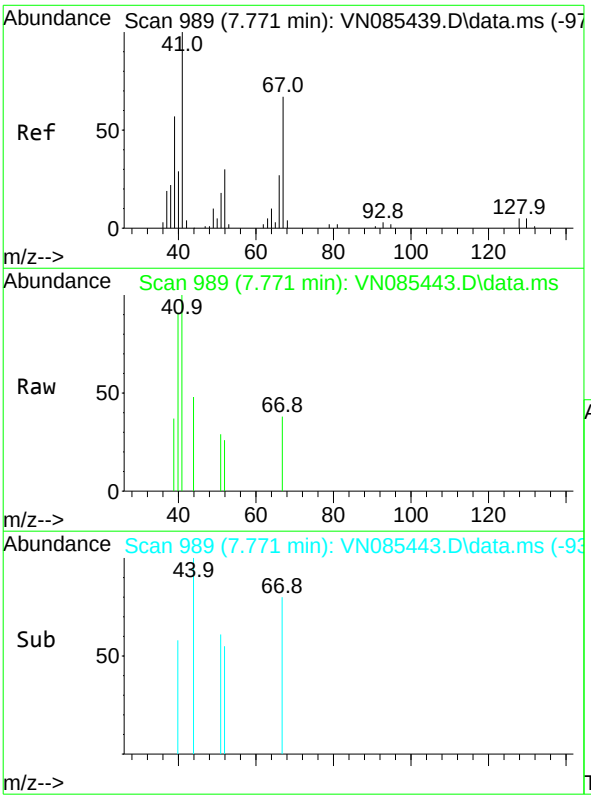
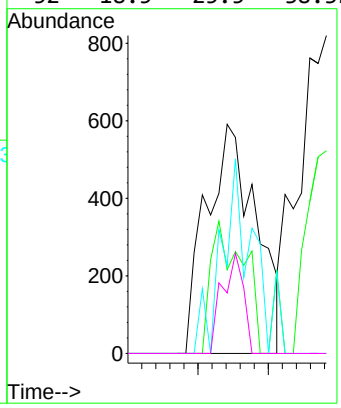


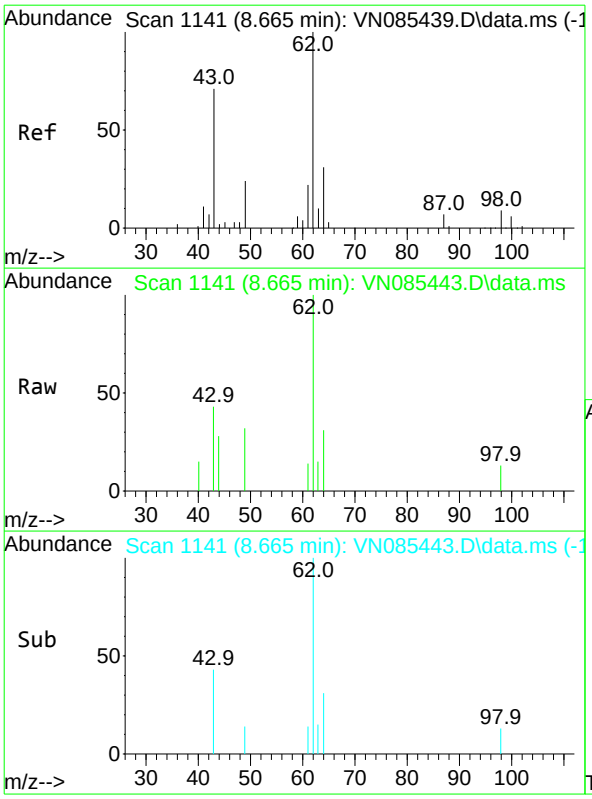




#41
Methacrylonitrile
Concen: 0.941 ug/l
RT: 7.771 min Scan# 989
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 41 Resp: 1458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 37.6 | 46.0 | 69.0# |
| 67 | 53.8 | 57.4 | 86.2# |
| 52 | 18.5 | 25.5 | 38.3# |






#42
1,2-Dichloroethane
Concen: 0.938 ug/l
RT: 8.665 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

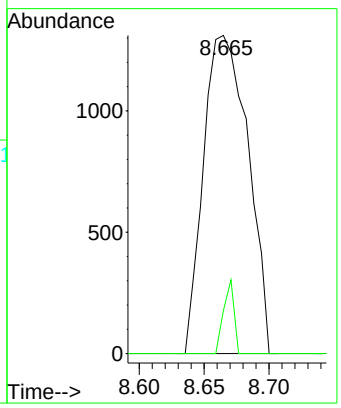
Tgt Ion: 62 Resp: 3131

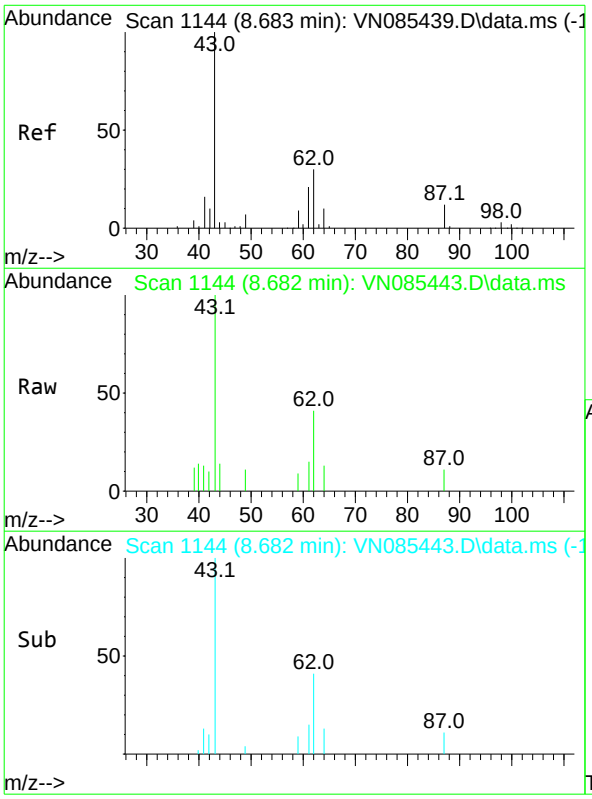
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 5.4 | 0.0 | 17.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

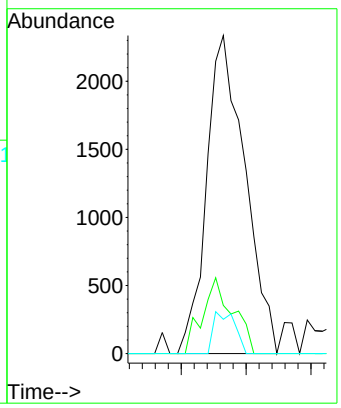


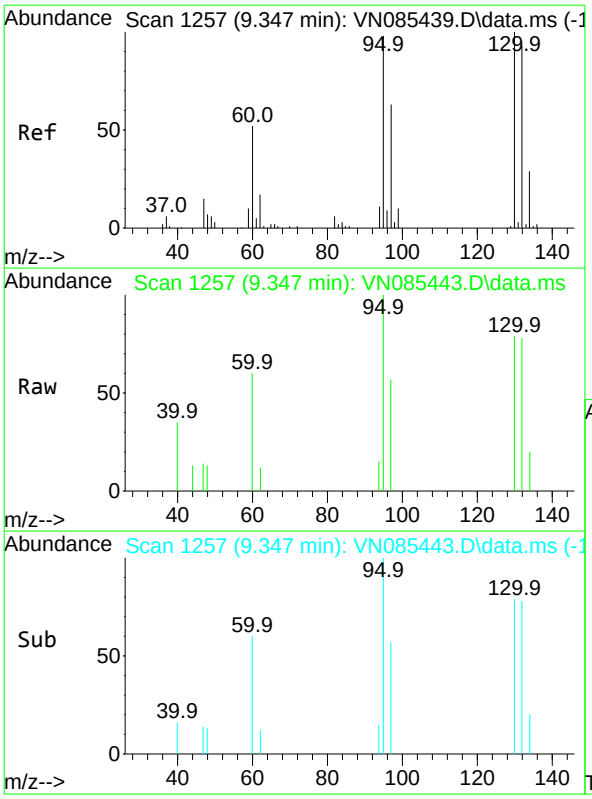




#43
Isopropyl Acetate
Concen: 1.007 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 4803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 18.9 | 20.7 | 31.1# |
| 87 | 7.3 | 9.8 | 14.8# |






#44
Trichloroethene
Concen: 1.034 ug/l
RT: 9.347 min Scan# 12
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:130 Resp: 2133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 126.1 | 0.0 | 195.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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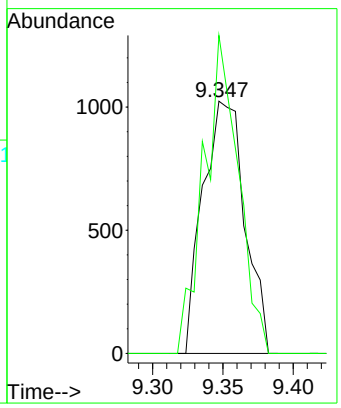
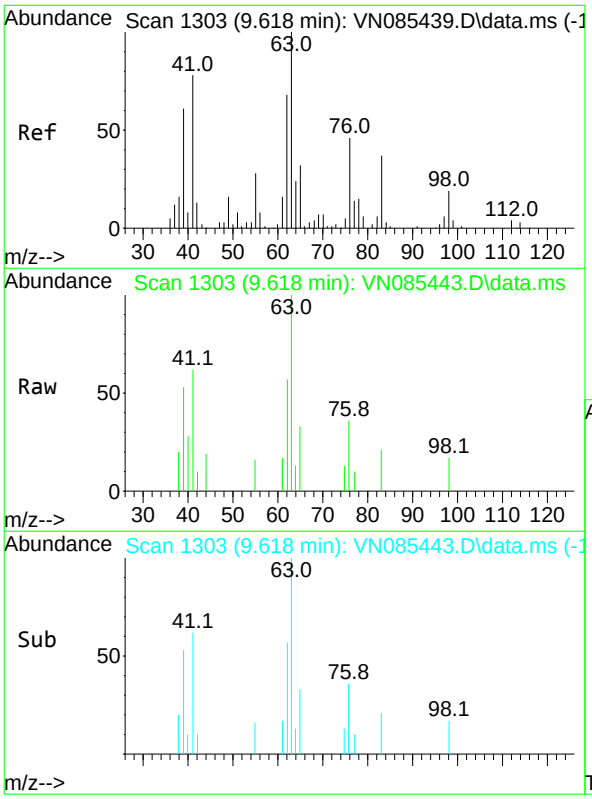
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

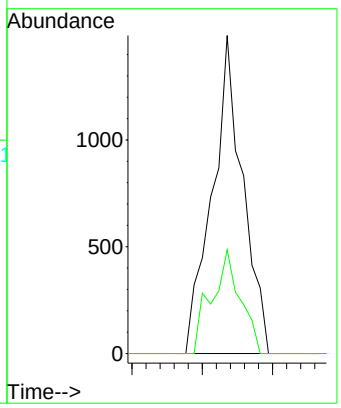


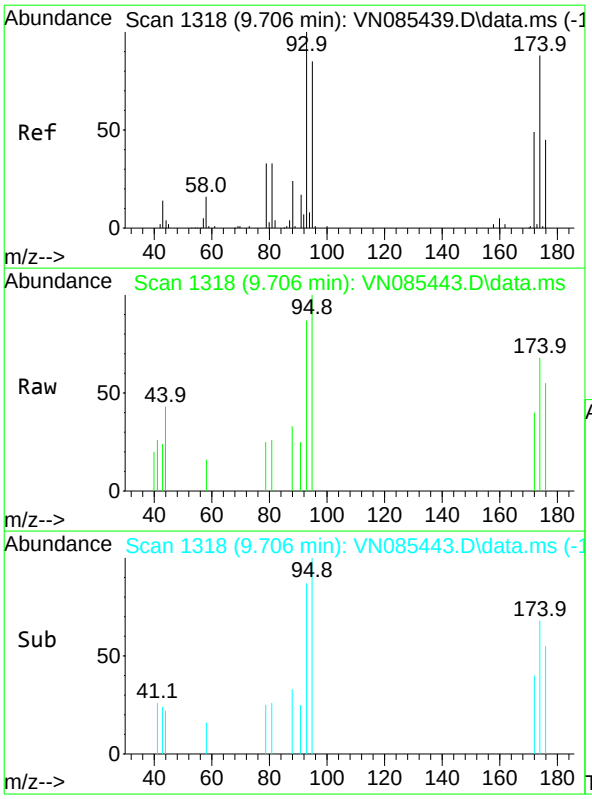




#45
1,2-Dichloropropane
Concen: 0.992 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 63 Resp: 2246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.6 | 25.6 | 38.4 |






#46
Dibromomethane
Concen: 1.083 ug/l
RT: 9.706 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

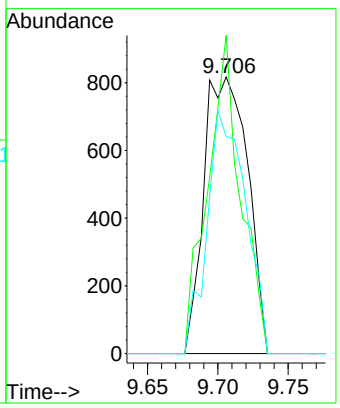
Tgt Ion: 93 Resp: 1769

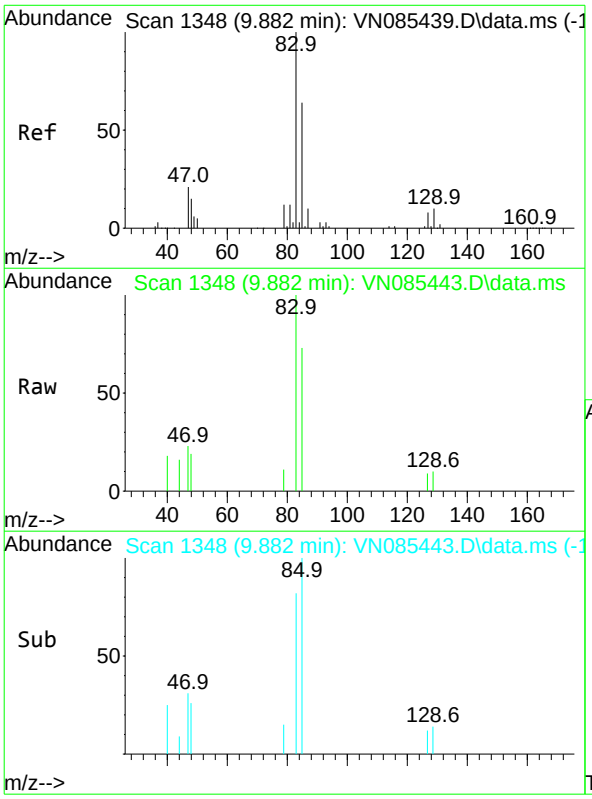
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 86.5 | 64.7 | 97.1 |
| 174 | 77.4 | 69.0 | 103.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

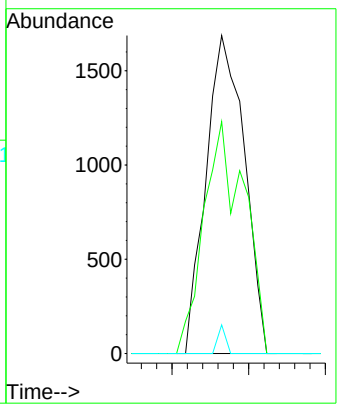


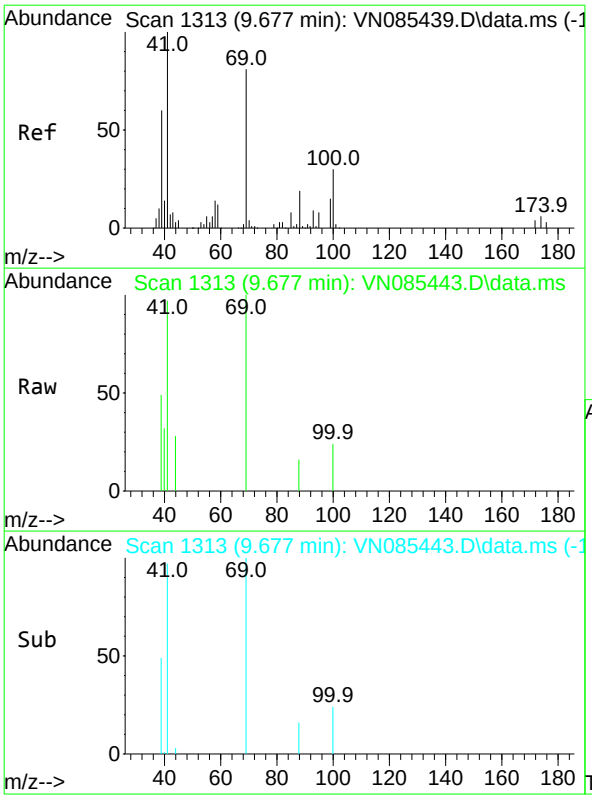




#47
Bromodichloromethane
Concen: 0.882 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 83 Resp: 2935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 72.9 | 51.2 | 76.8 |
| 127 | 9.0 | 6.5 | 9.7 |






#48
Methyl methacrylate
Concen: 0.878 ug/l
RT: 9.677 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

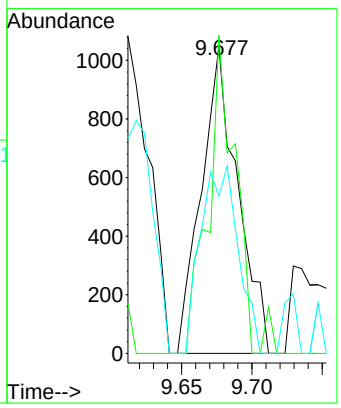
Tgt Ion: 41 Resp: 1886

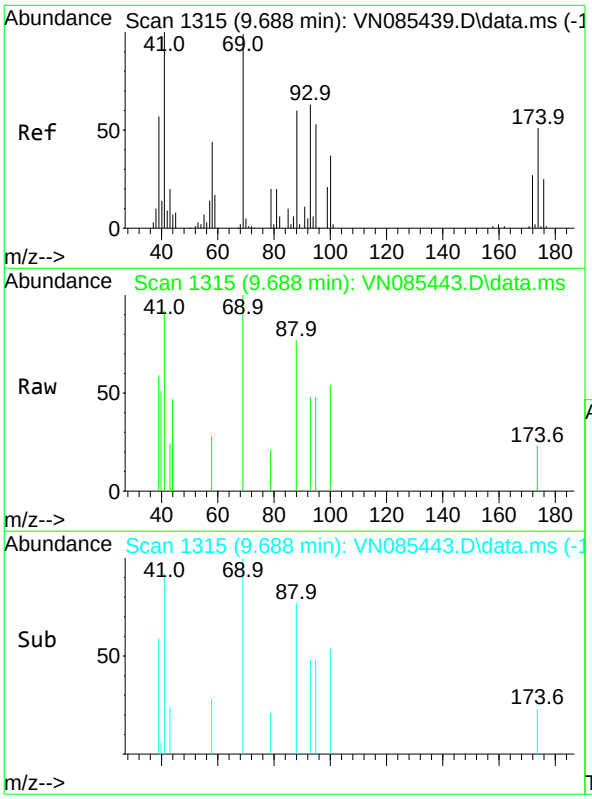
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 76.2 | 64.7 | 97.1 |
| 39 | 62.8 | 49.0 | 73.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

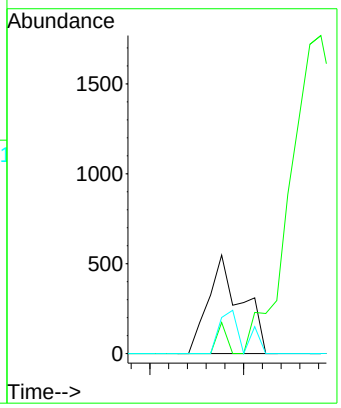


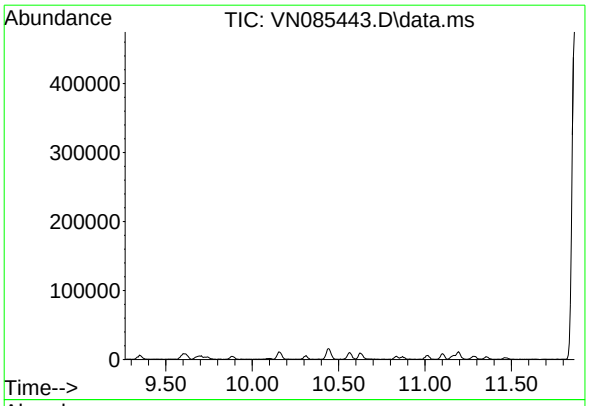




#49
1,4-Dioxane
Concen: 18.616 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 88 Resp: 673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 26.6 | 39.8# |
| 58 | 31.1 | 59.5 | 89.3# |






#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.56 min

Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

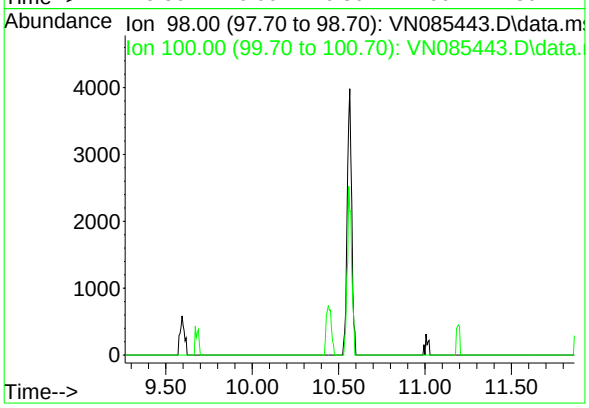
Tgt Ion: 98

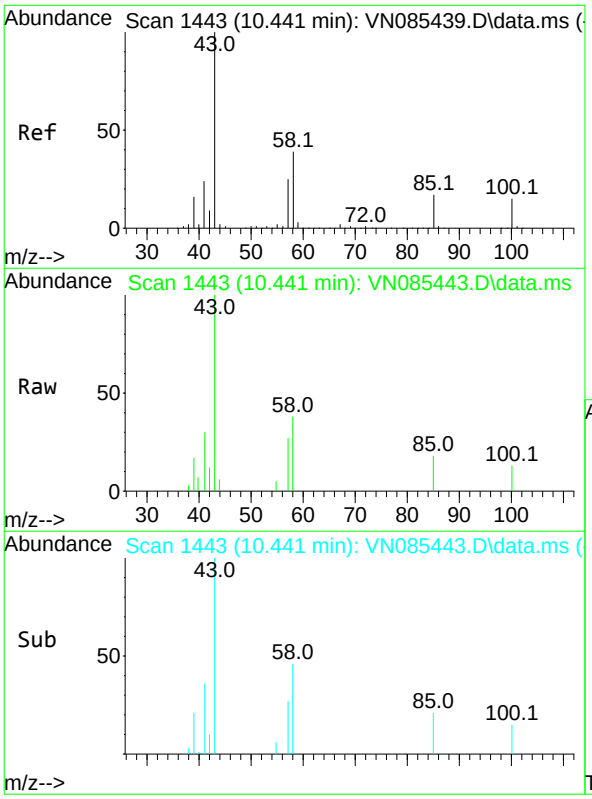
| Sig | Exp Ratio |
|---|---|
| 98 | 100 |
| 100 | 65.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

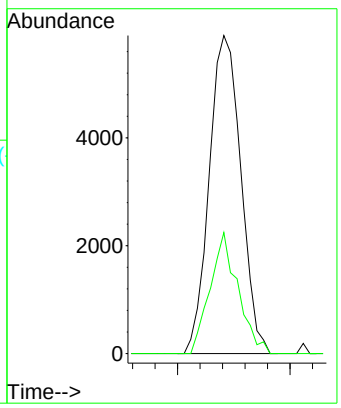


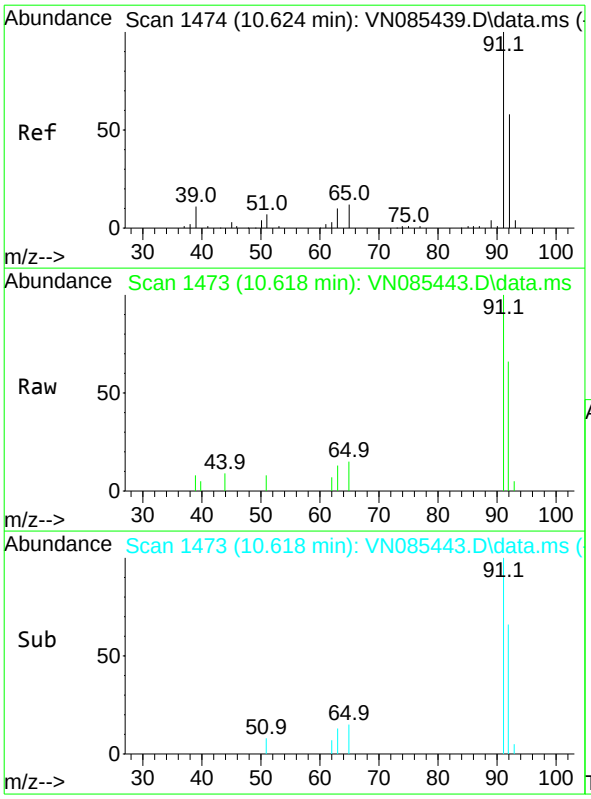




#51
4-Methyl-2-Pentanone
Concen: 4.163 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 11523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.6 | 30.5 | 45.7 |






#52
Toluene
Concen: 0.814 ug/l
RT: 10.618 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 92 Resp: 4180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 183.9 | 139.2 | 208.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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Reviewed By :John Carlone 01/15/2025
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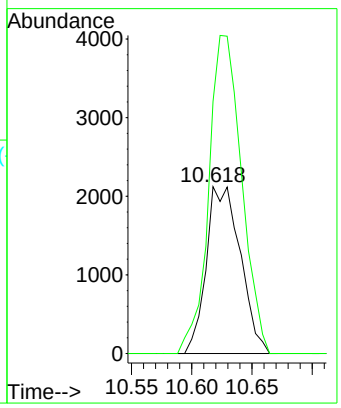
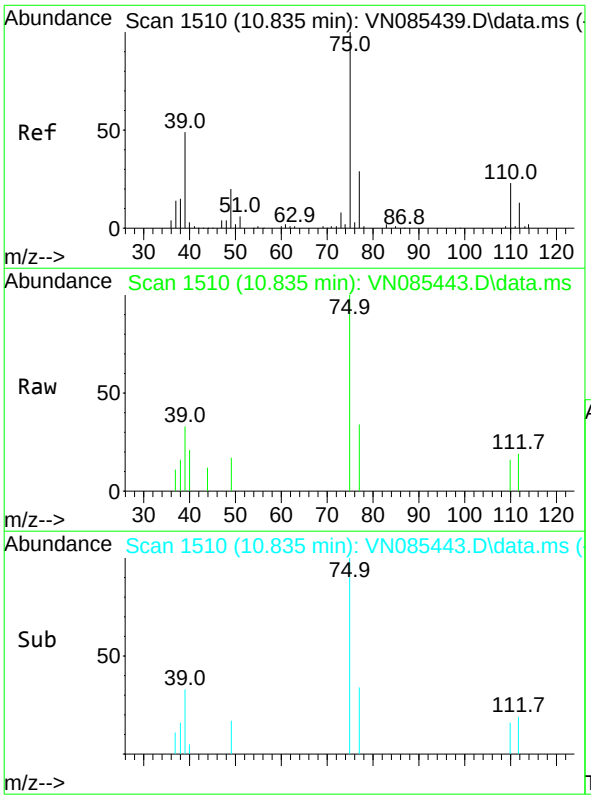
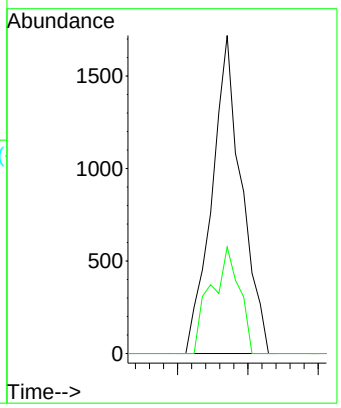


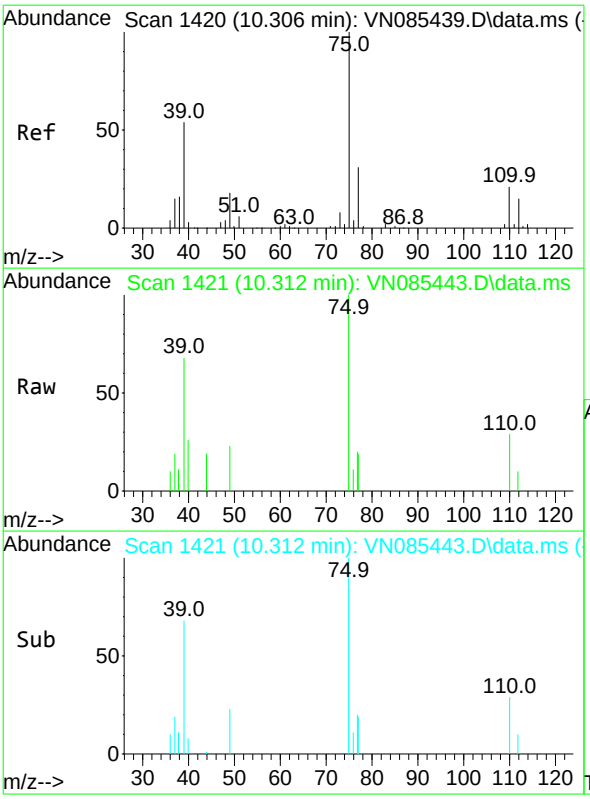




#53
t-1,3-Dichloropropene
Concen: 0.802 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 75 Resp: 2522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.5 | 23.5 | 35.3 |






#54
cis-1,3-Dichloropropene
Concen: 0.811 ug/l
RT: 10.312 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

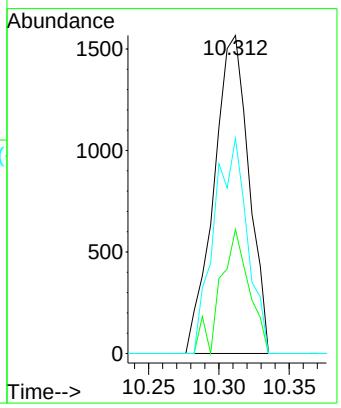
Tgt Ion: 75 Resp: 2725

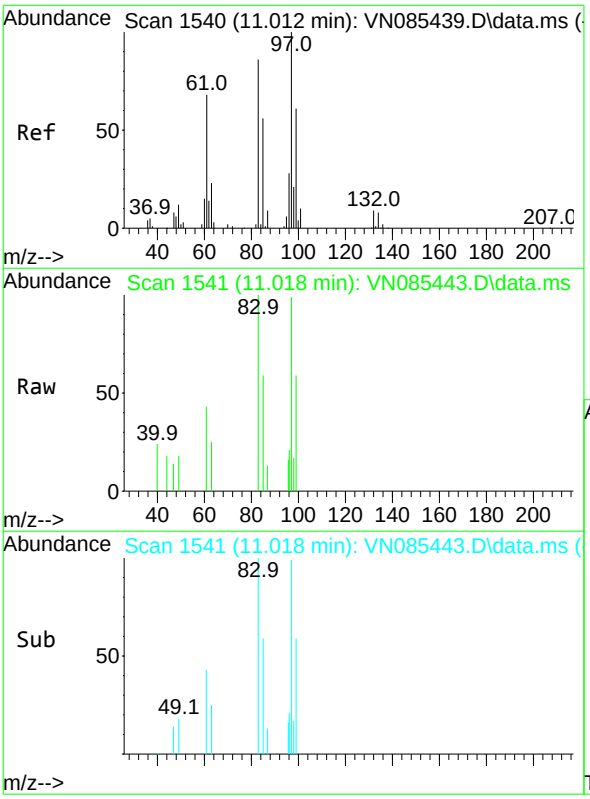
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 39.0 | 25.0 | 37.4# |
| 39 | 67.6 | 43.1 | 64.7# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

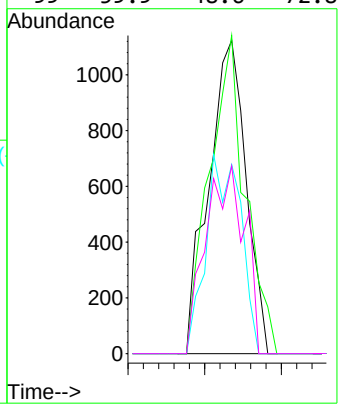


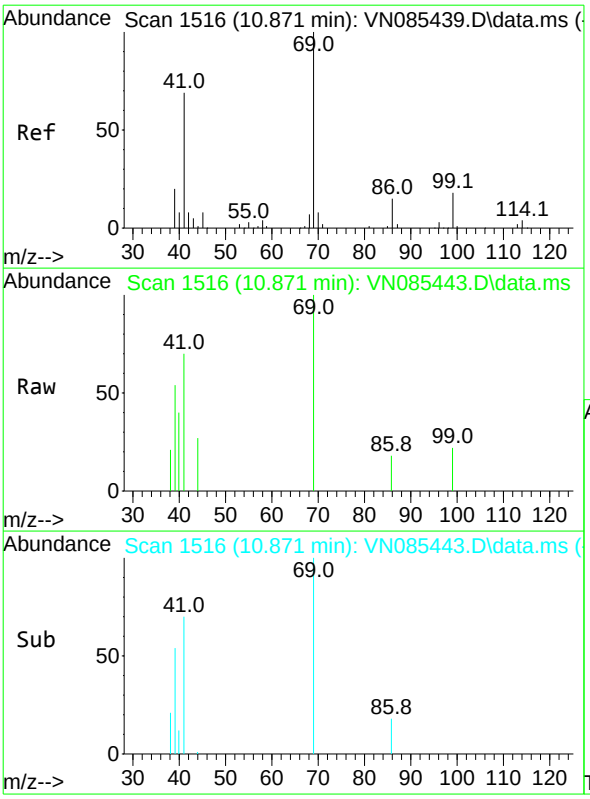




#55
1,1,2-Trichloroethane
Concen: 0.935 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 97 Resp: 1901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 101.5 | 69.0 | 103.6 |
| 85 | 60.3 | 44.6 | 66.8 |
| 99 | 59.9 | 48.6 | 72.8 |






#56
Ethyl methacrylate
Concen: 2.471 ug/l
RT: 10.871 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

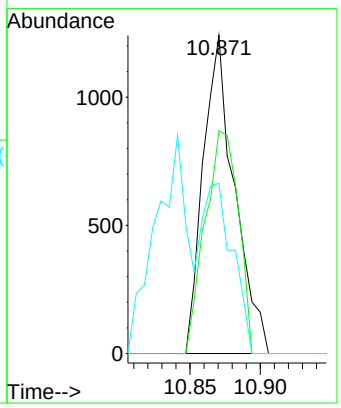
Tgt Ion: 69 Resp: 1923

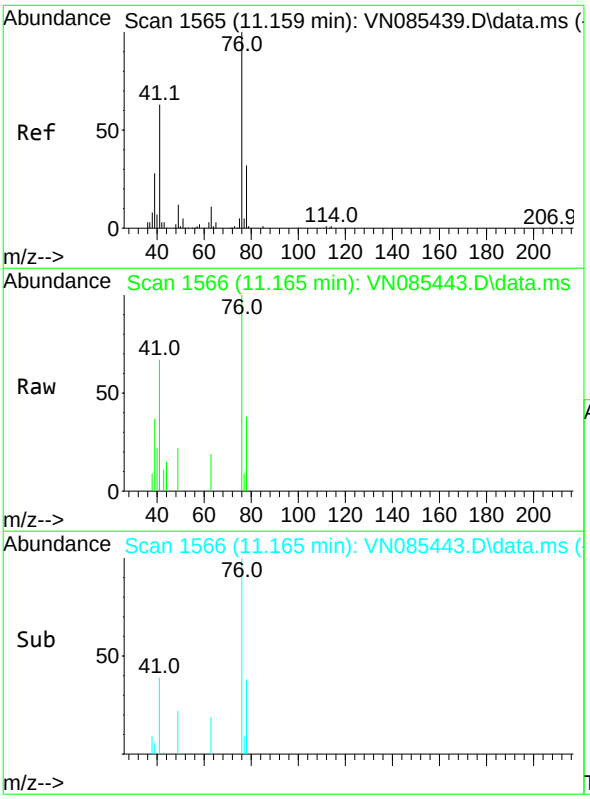
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 74.4 | 54.6 | 82.0 |
| 39 | 52.4 | 32.4 | 48.6# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

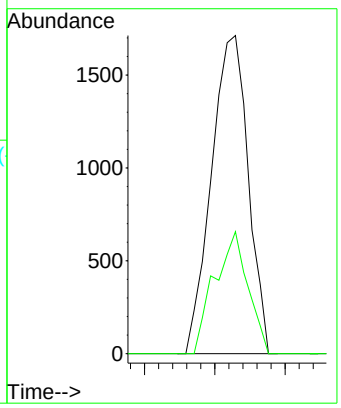


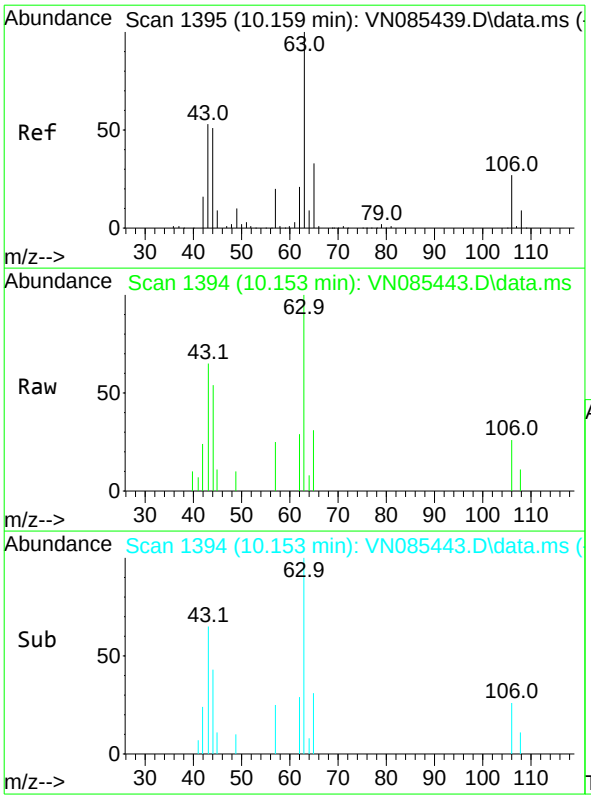




#57
1,3-Dichloropropane
Concen: 0.881 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 76 Resp: 3113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 34.9 | 25.6 | 38.4 |






#58
2-Chloroethyl Vinyl ether
Concen: 3.822 ug/l
RT: 10.153 min Scan# 13
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

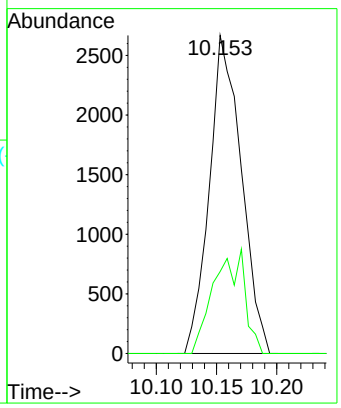
Tgt Ion: 63 Resp: 4929

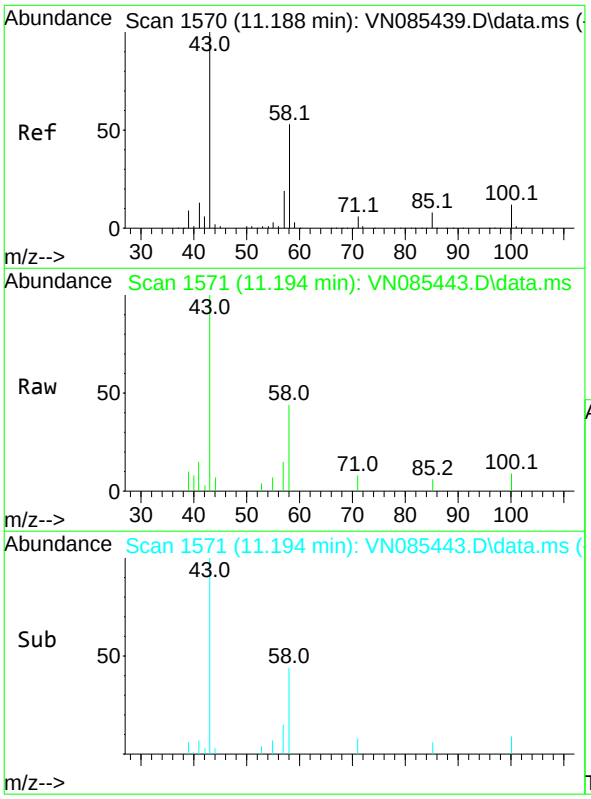
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 31.7 | 21.6 | 32.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

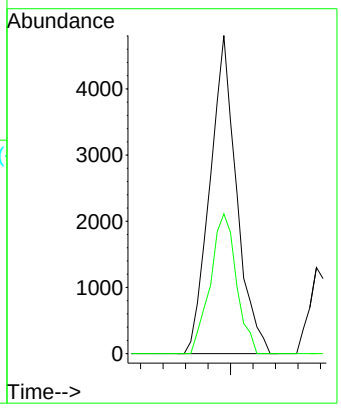


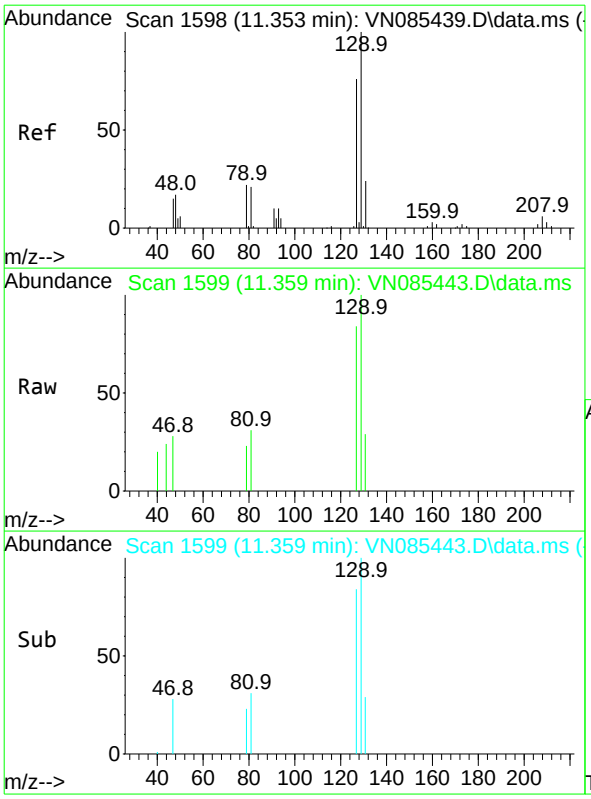




#59
2-Hexanone
Concen: 4.058 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 7905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.9 | 26.2 | 78.6 |






#60
Dibromochloromethane
Concen: 0.953 ug/l
RT: 11.359 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:129 Resp: 2339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.9 | 38.6 | 115.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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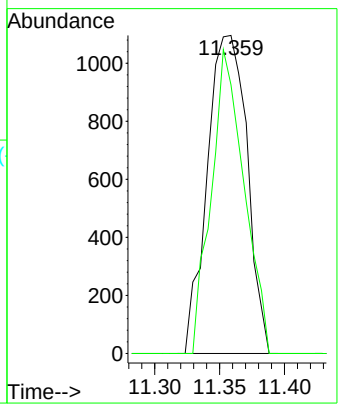
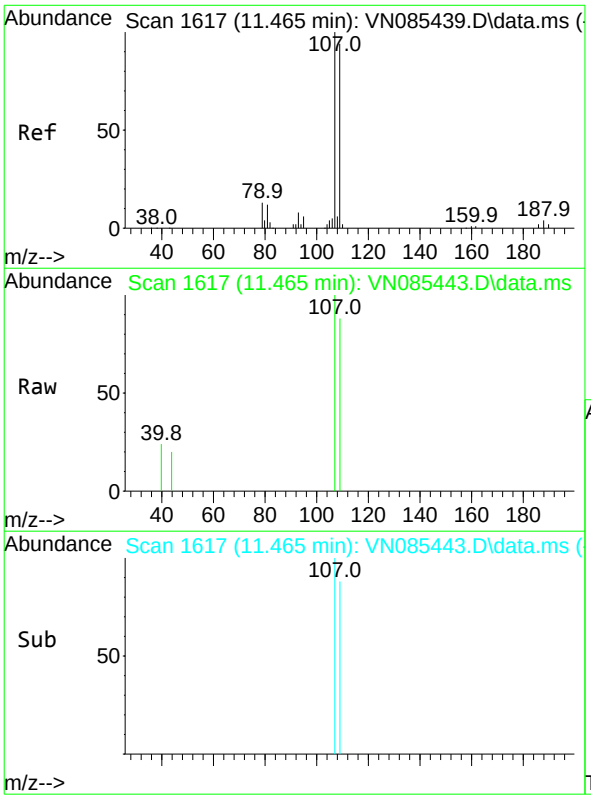
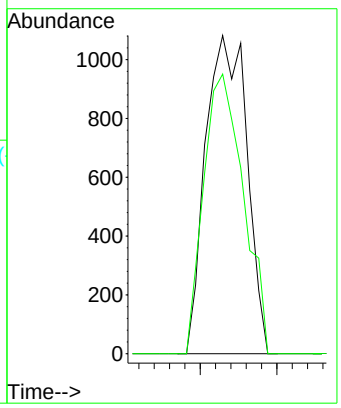


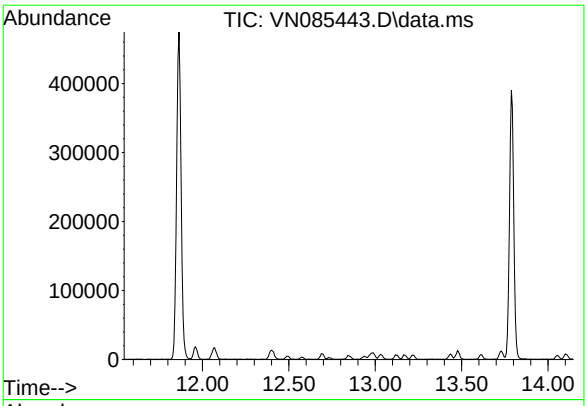




#61
1,2-Dibromoethane
Concen: 1.000 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:107 Resp: 2022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 84.8 | 75.9 | 113.9 |






#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.85 min

Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

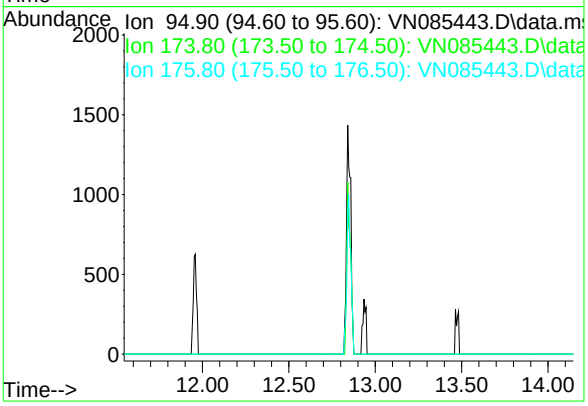
Tgt Ion: 95

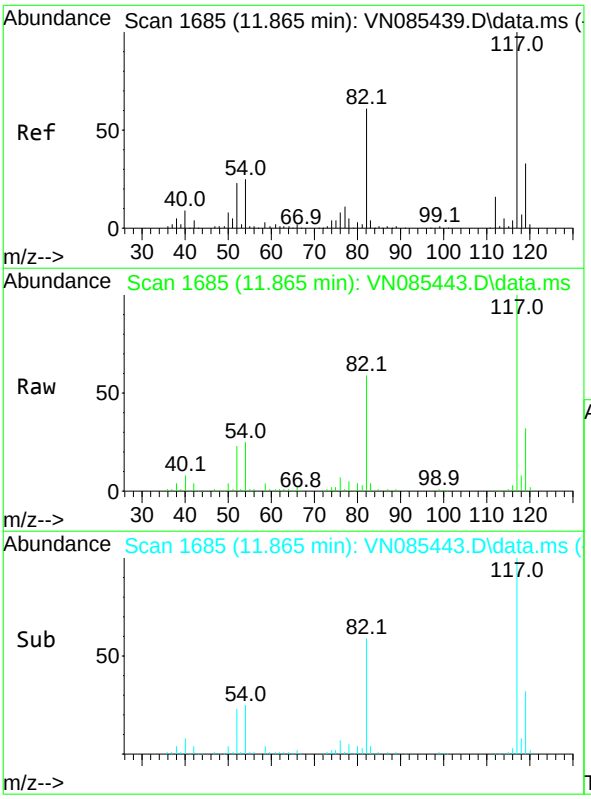
| Sig | Exp Ratio |
|---|---|
| 95 | 100 |
| 174 | 72.5 |
| 176 | 71.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

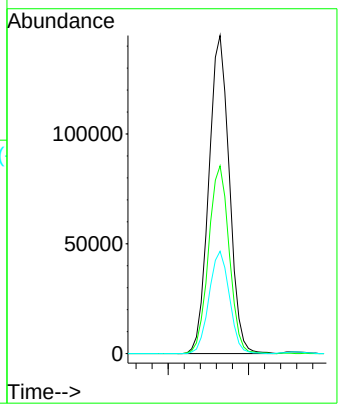


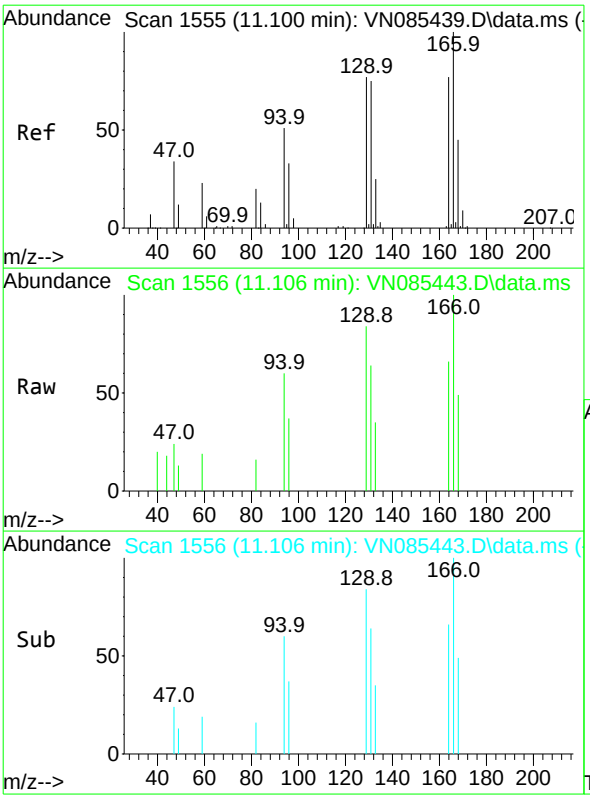




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:117 Resp: 256851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.0 | 48.6 | 72.8 |
| 119 | 32.2 | 26.6 | 39.8 |






#64
Tetrachloroethene
Concen: 0.947 ug/l
RT: 11.106 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

Tgt Ion:164 Resp: 1658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 152.1 | 103.4 | 155.2 |
| 129 | 128.3 | 79.2 | 118.8# |
| 131 | 96.9 | 77.1 | 115.7 |

**Manual Integrations**
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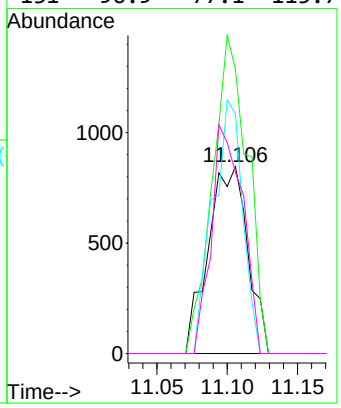
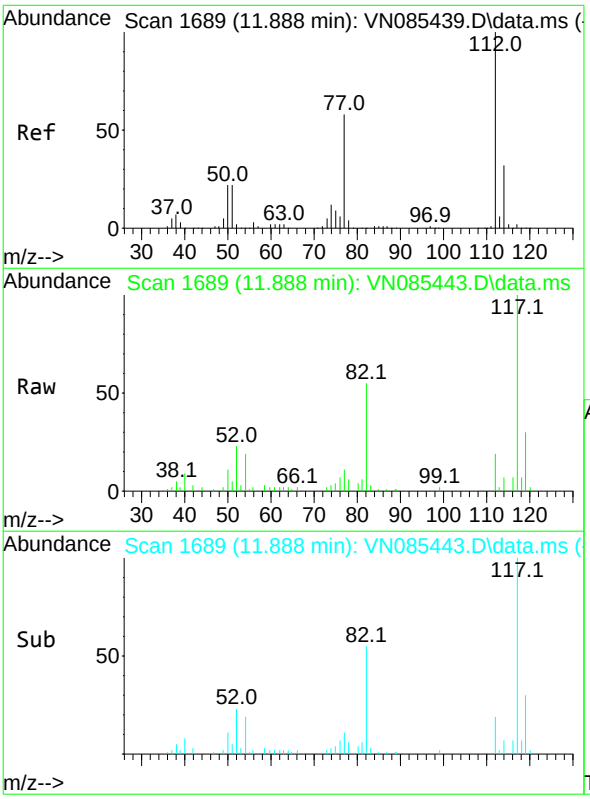
Supervised By :Mahesh Dadoda 01/15/2025

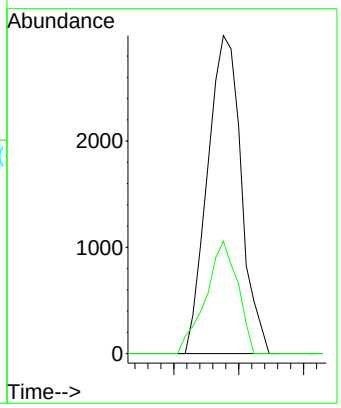


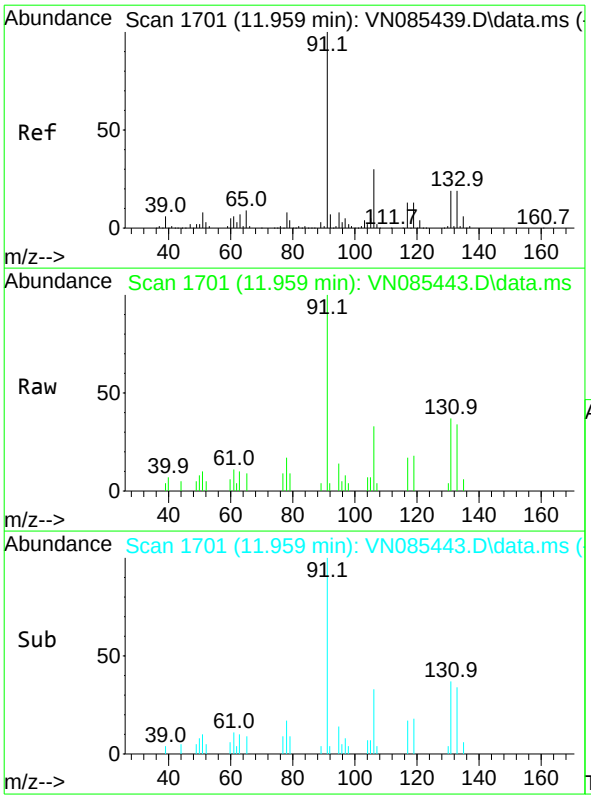




#65
Chlorobenzene
Concen: 0.960 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:112 Resp: 5401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 35.3 | 25.3 | 37.9 |






#66
1,1,1,2-Tetrachloroethane
Concen: 1.058 ug/l
RT: 11.959 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

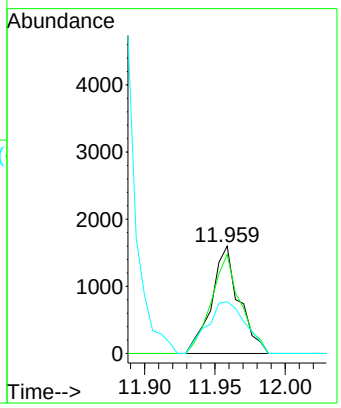
Tgt Ion:131 Resp: 2185

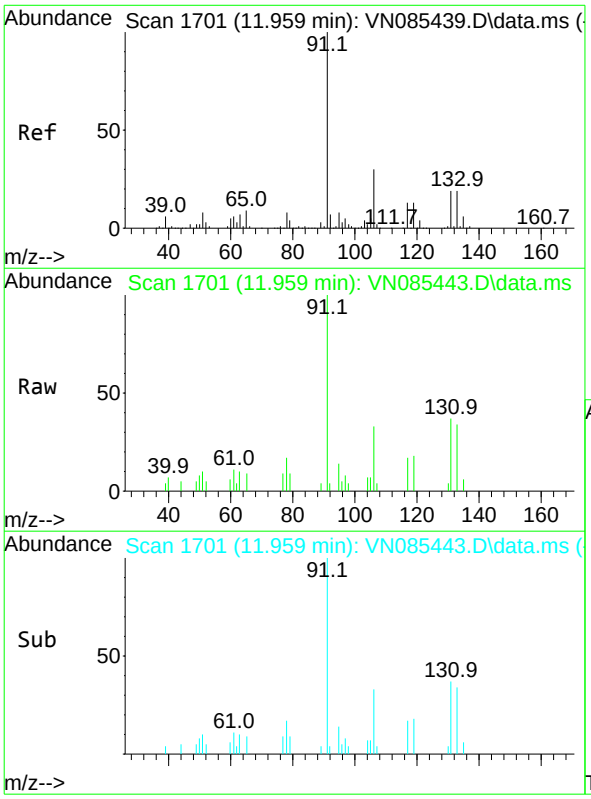
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.7 | 47.4 | 142.3 |
| 119 | 0.0 | 33.1 | 99.5# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

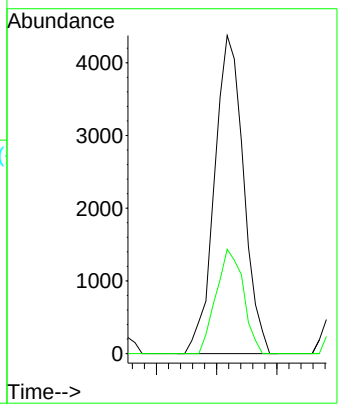


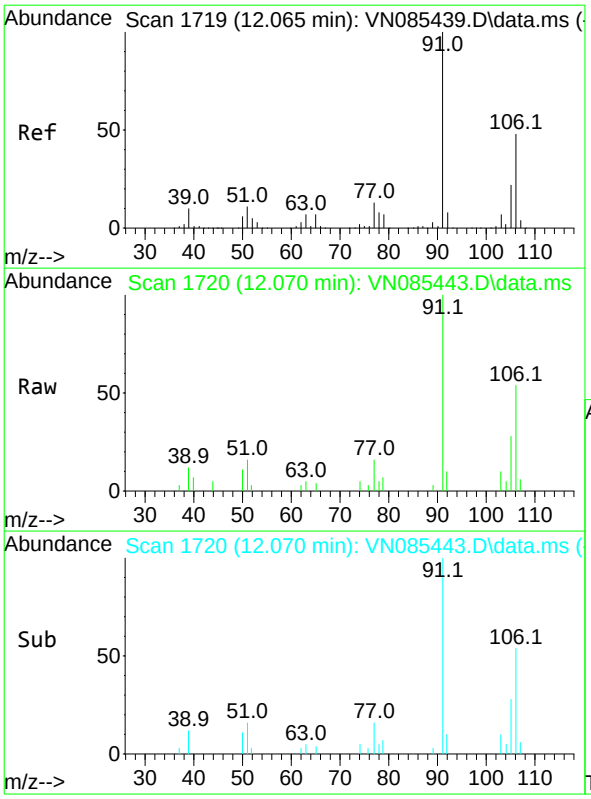




#67
Ethyl Benzene
Concen: 0.802 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 91 Resp: 7347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.8 | 23.8 | 35.8 |






#68
m/p-Xylenes
Concen: 1.494 ug/l
RT: 12.070 min Scan# 17
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:106 Resp: 5059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.3 | 167.7 | 251.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

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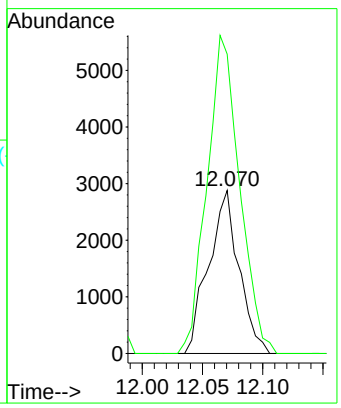
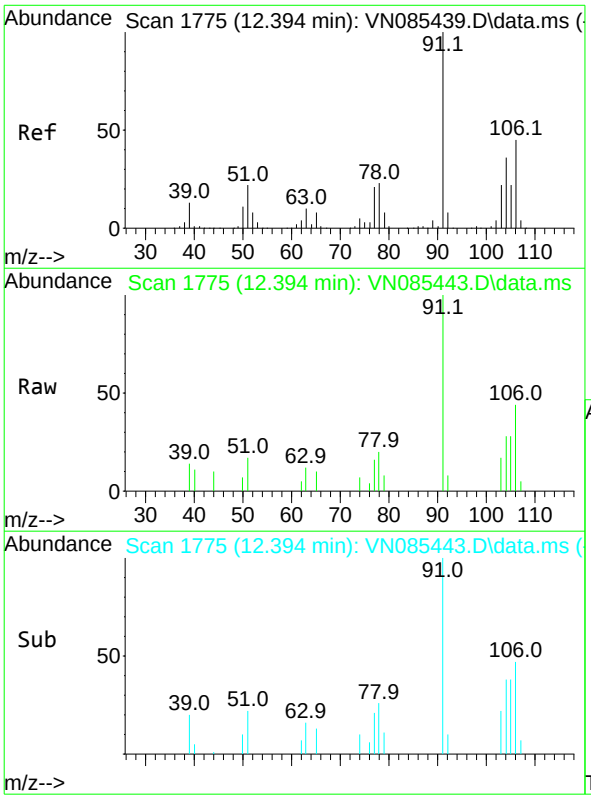
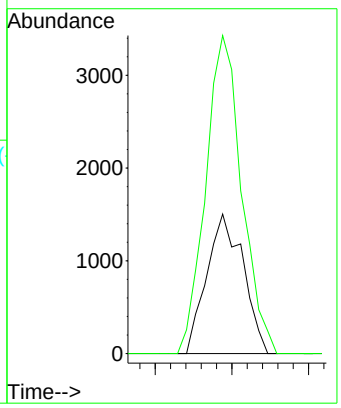


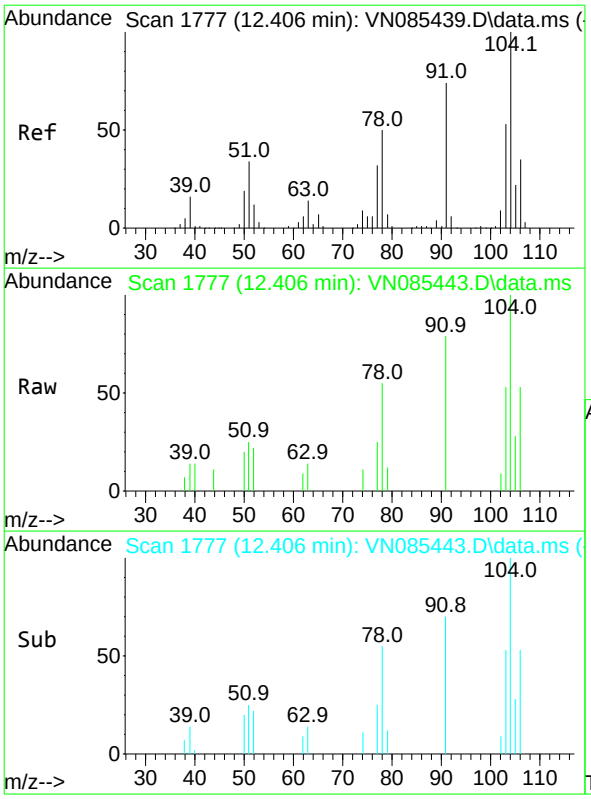




#69
o-Xylene
Concen: 0.766 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:106 Resp: 2478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 225.4 | 110.4 | 331.2 |






#70
Styrene
Concen: 0.712 ug/l
RT: 12.406 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:104 Resp: 3812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.9 | 42.5 | 63.7 |
| 103 | 53.7 | 43.8 | 65.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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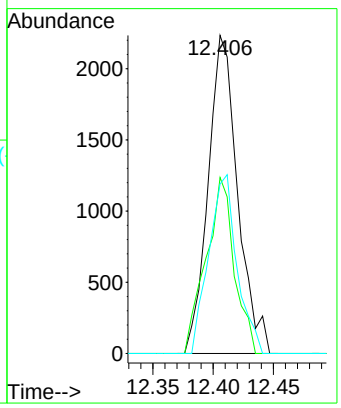
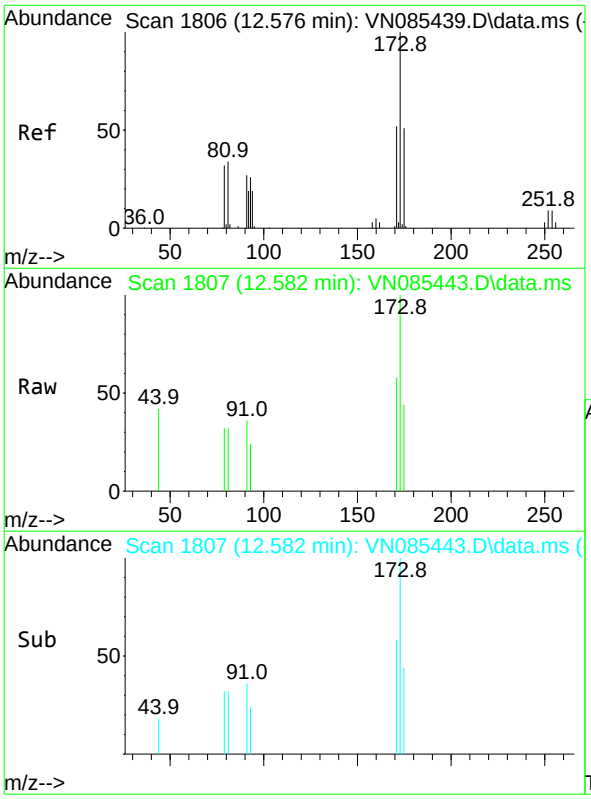
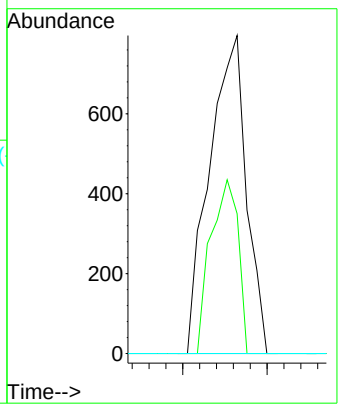


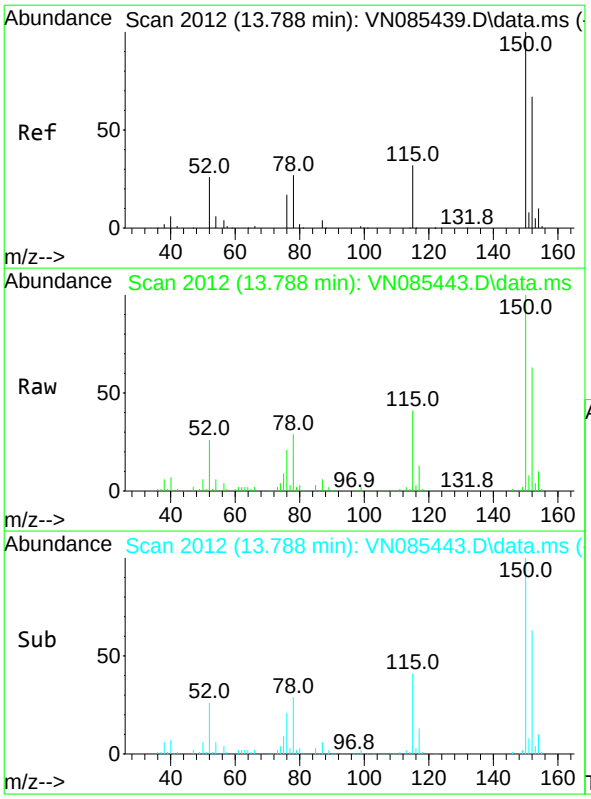




#71
Bromoform
Concen: 0.818 ug/l
RT: 12.582 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:173 Resp: 1208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 40.7 | 24.4 | 73.2 |
| 254 | 0.0 | 0.0 | 0.0 |






#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

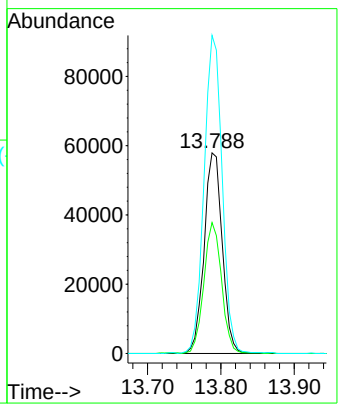
Tgt Ion:152 Resp: 99539

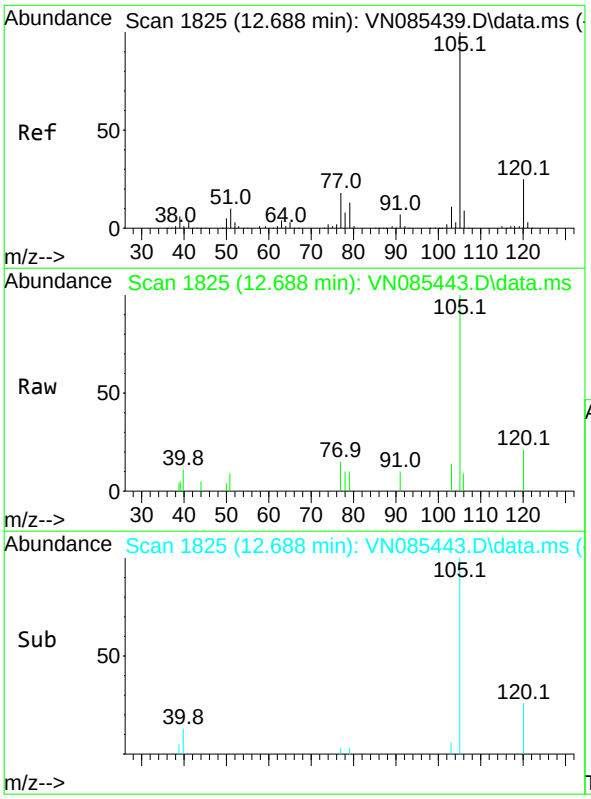
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 63.8 | 31.1 | 93.3 |
| 150 | 158.5 | 0.0 | 343.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

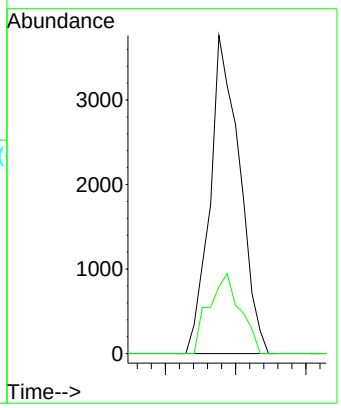


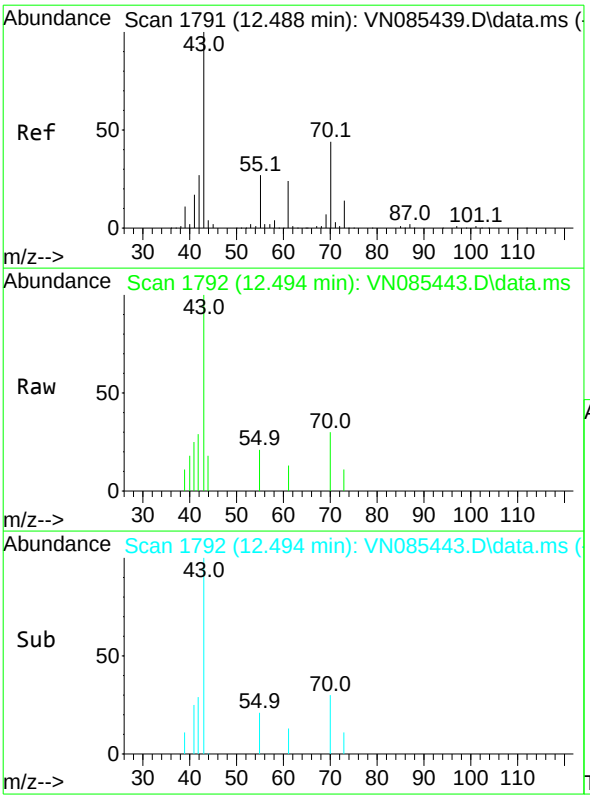




#73
Isopropylbenzene
Concen: 0.820 ug/l
RT: 12.688 min Scan# 1825
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:105 Resp: 5506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.7 | 12.8 | 38.3 |






#74
N-amyl acetate
Concen: 0.899 ug/l
RT: 12.494 min Scan# 17
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

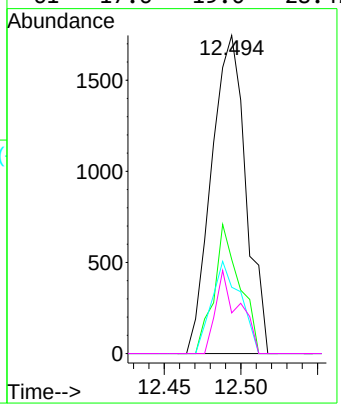
Tgt Ion: 43 Resp: 2716

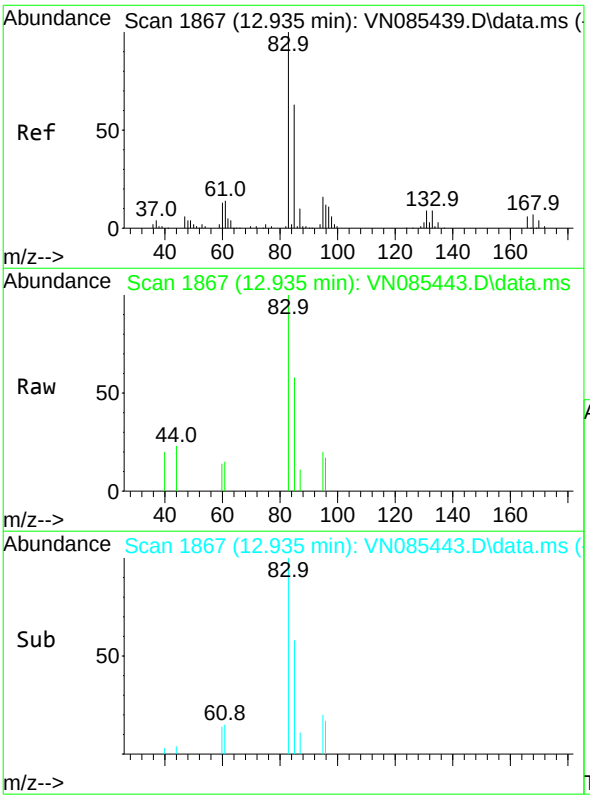
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 30.4 | 34.0 | 51.0# |
| 55 | 24.2 | 21.4 | 32.2 |
| 61 | 17.6 | 19.0 | 28.4# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

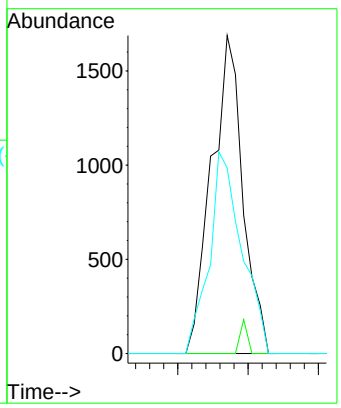


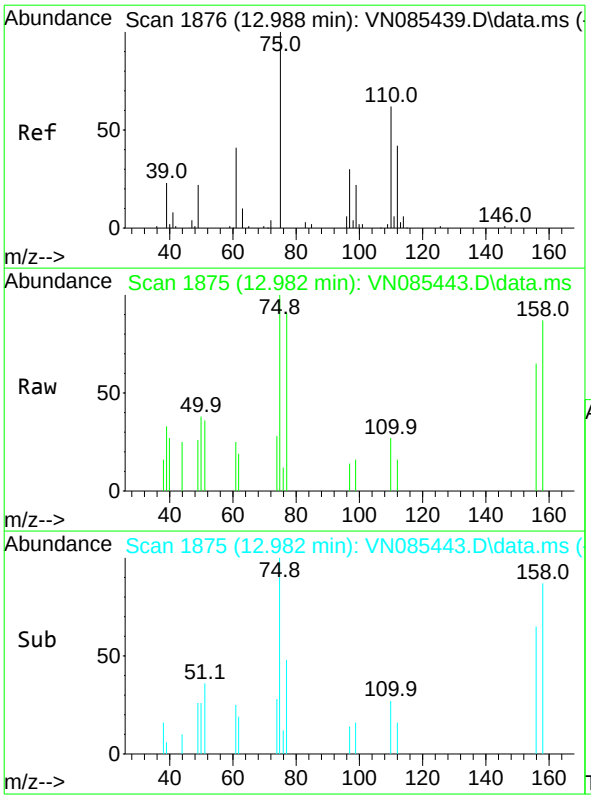




#75
1,1,2,2-Tetrachloroethane
Concen: 1.102 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 83 Resp: 2616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 2.4 | 4.8 | 14.4# |
| 85 | 65.7 | 32.2 | 96.6 |






#76
1,2,3-Trichloropropane
Concen: 1.088 ug/l m
RT: 12.982 min Scan# 18
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

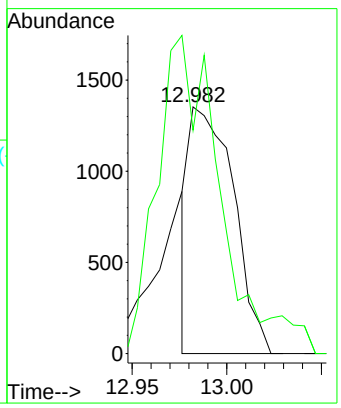
Tgt Ion: 75 Resp: 2198

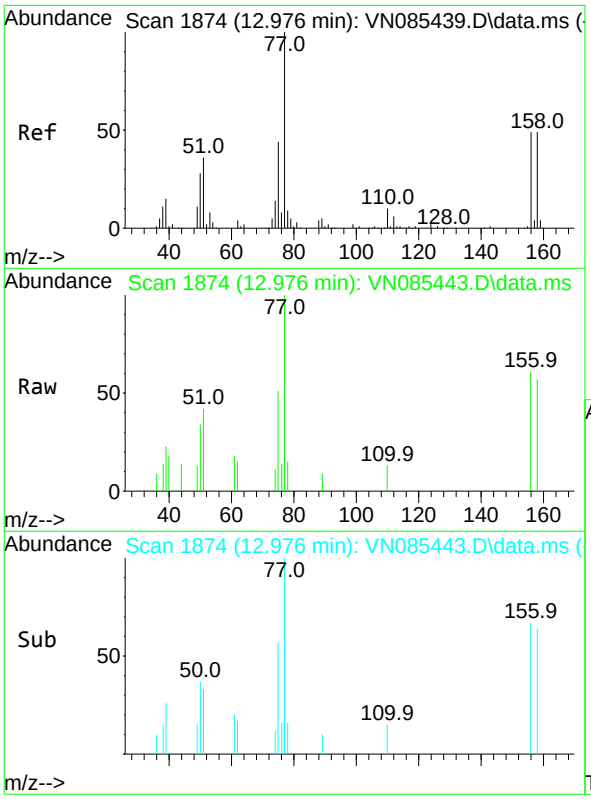
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 184.2 | 109.7 | 329.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

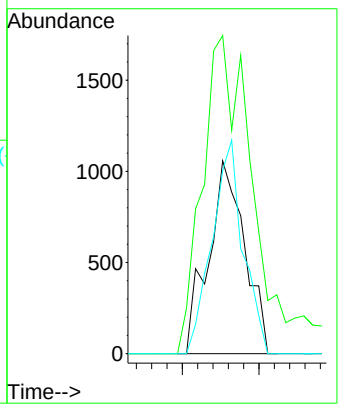


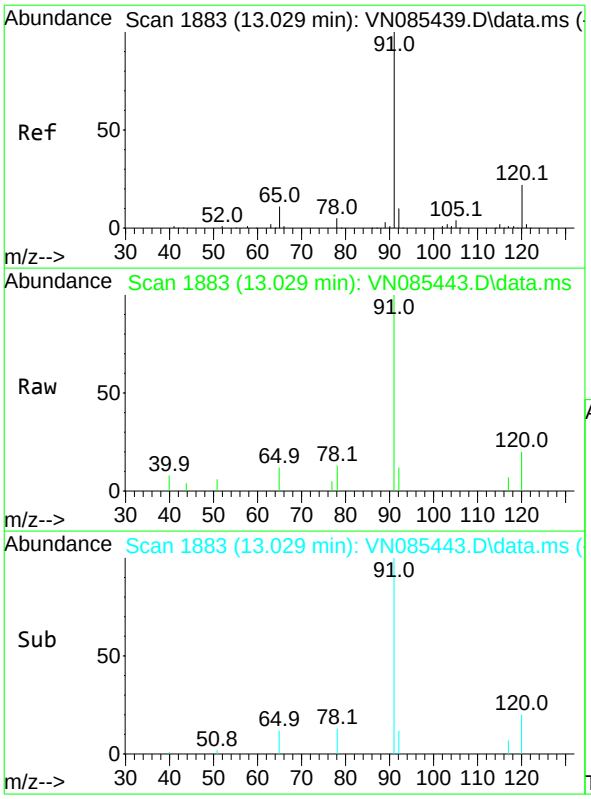




#77
Bromobenzene
Concen: 0.987 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:156 Resp: 1733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 233.6 | 114.1 | 342.4 |
| 158 | 94.9 | 48.9 | 146.8 |






#78
n-propylbenzene
Concen: 0.808 ug/l
RT: 13.029 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 91 Resp: 6424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 18.2 | 10.9 | 32.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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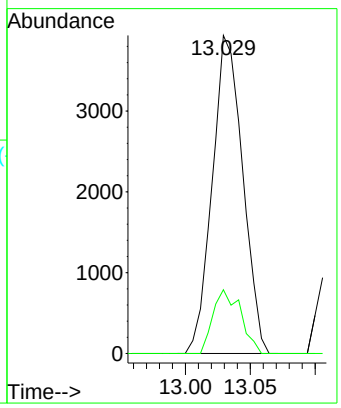
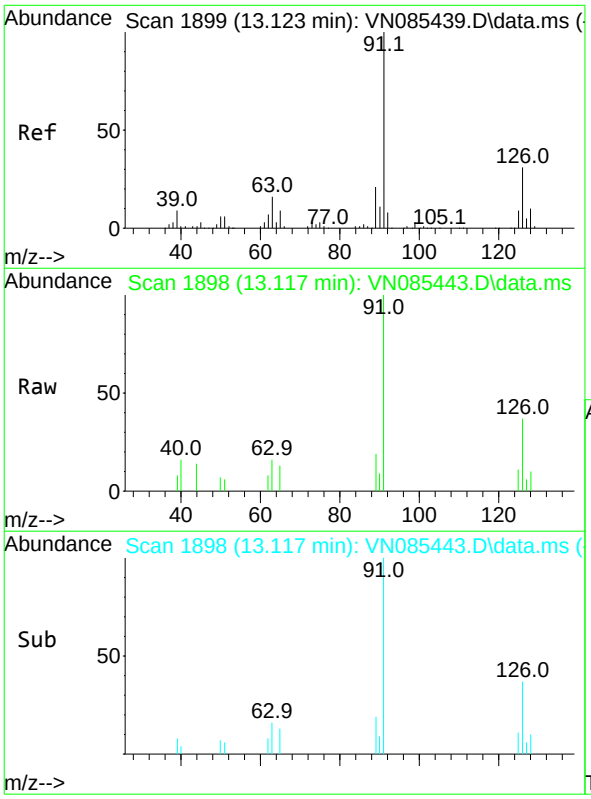
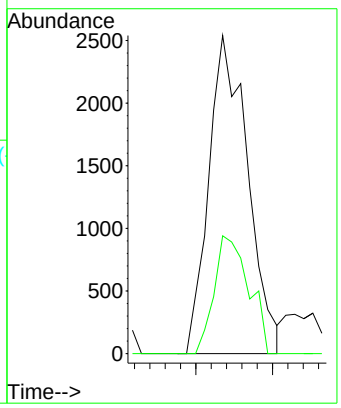


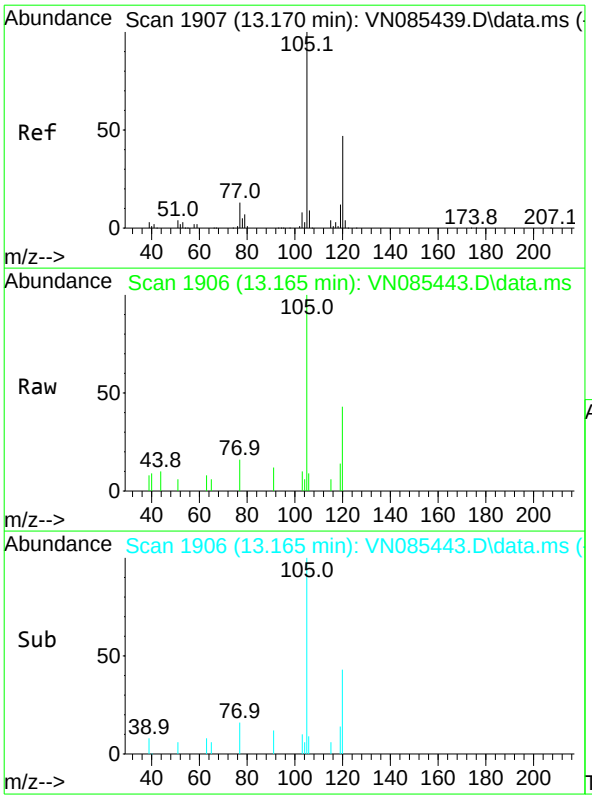




#79
2-Chlorotoluene
Concen: 0.871 ug/l
RT: 13.117 min Scan# 1898
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 91 Resp: 4483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.9 | 15.7 | 47.1 |






#80
1,3,5-Trimethylbenzene
Concen: 0.775 ug/l
RT: 13.165 min Scan# 19
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

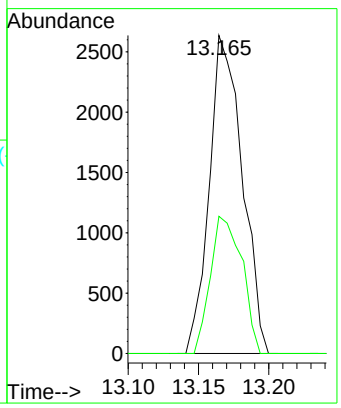
Tgt Ion:105 Resp: 4301

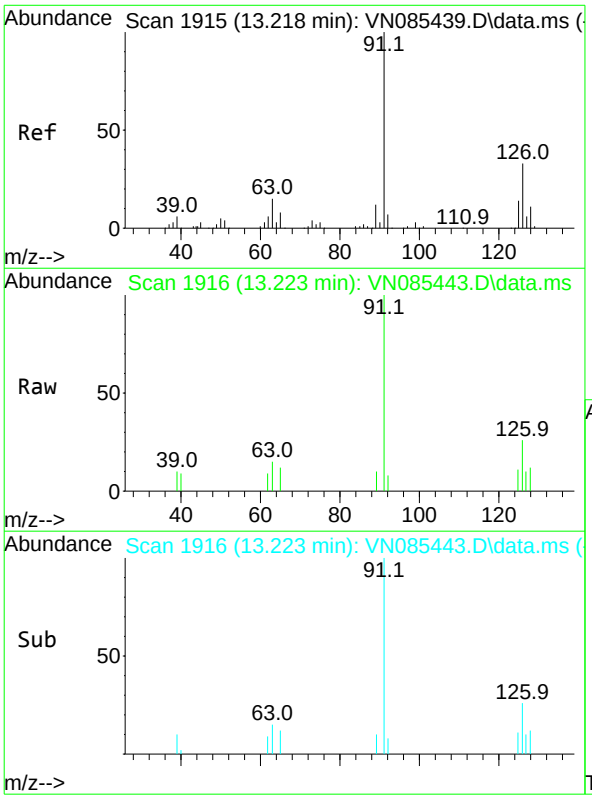
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 41.2 | 23.9 | 71.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

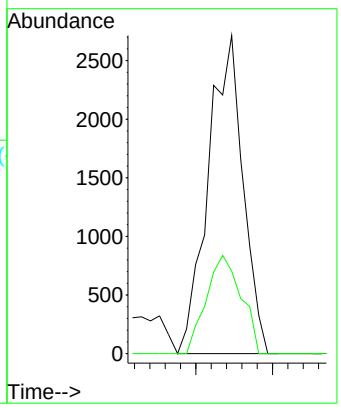


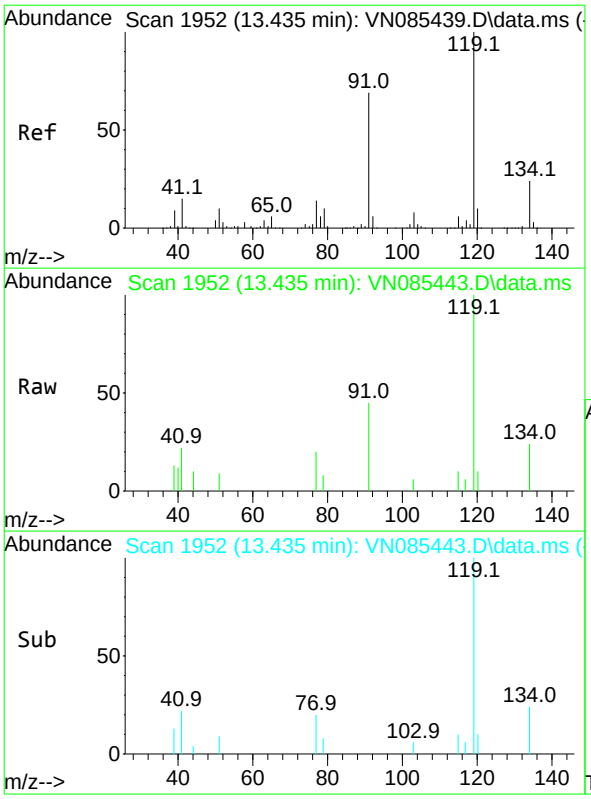




#82
4-Chlorotoluene
Concen: 0.833 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 91 Resp: 4268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.0 | 15.9 | 47.7 |






#83
tert-Butylbenzene
Concen: 0.805 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:119 Resp: 3753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.9 | 35.1 | 105.3 |
| 134 | 24.9 | 12.0 | 36.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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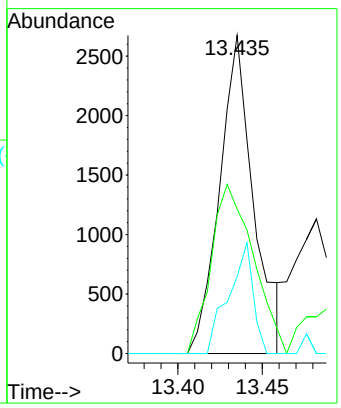
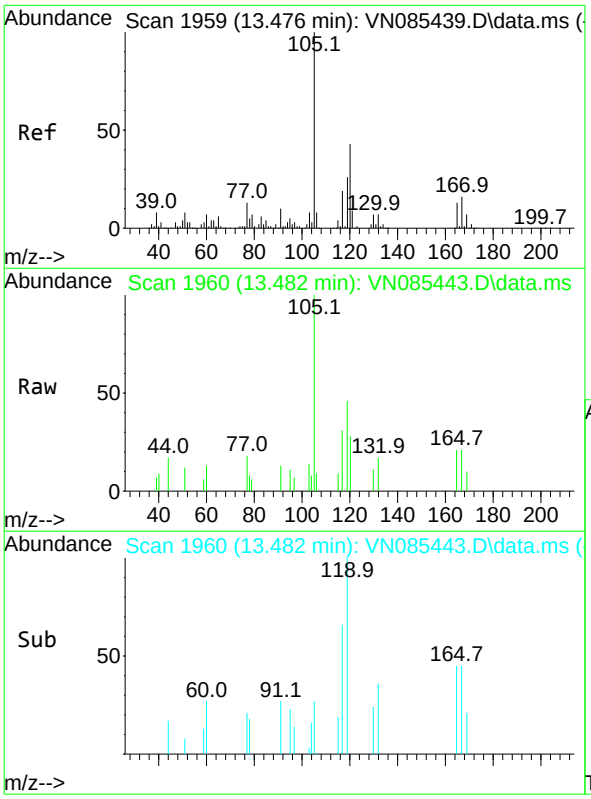
Supervised By :Mahesh Dadoda 01/15/2025

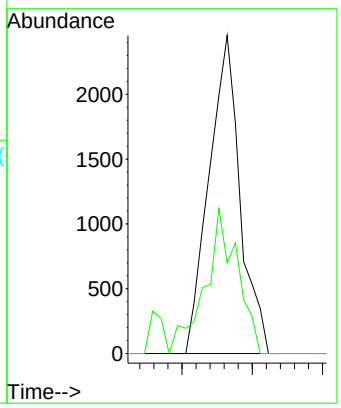


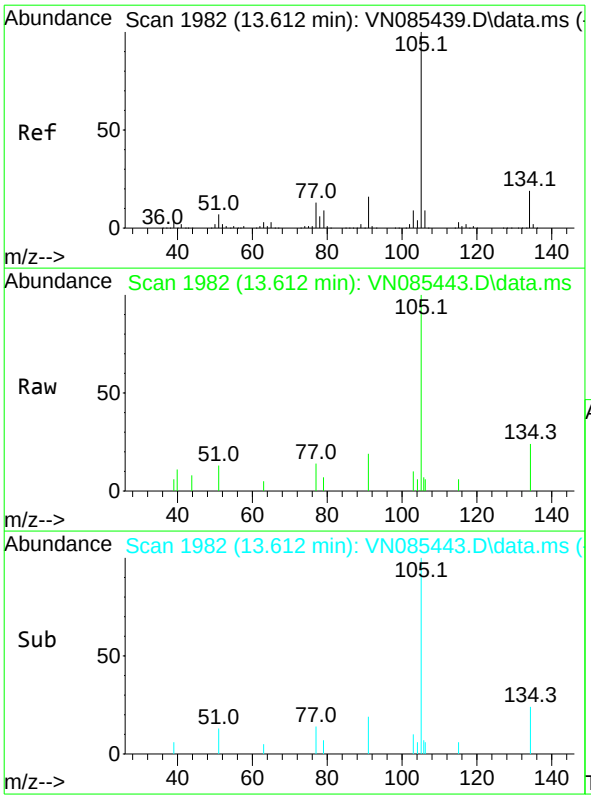




#84
1,2,4-Trimethylbenzene
Concen: 0.679 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:105 Resp: 3758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.7 | 21.6 | 65.0 |






#85
sec-Butylbenzene
Concen: 0.714 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

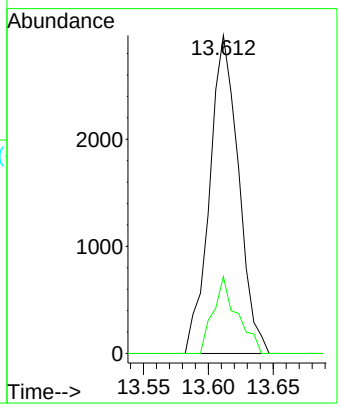
Tgt Ion:105 Resp: 4614

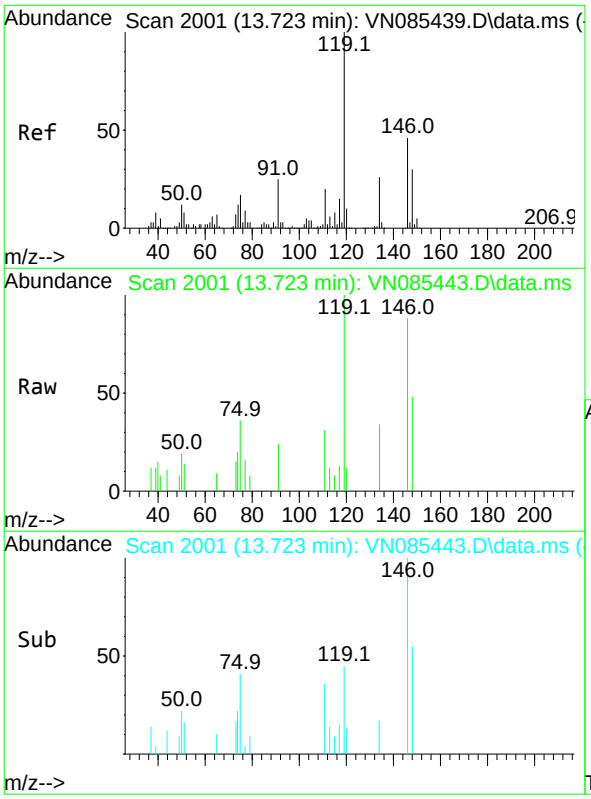
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 9.7 | 28.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

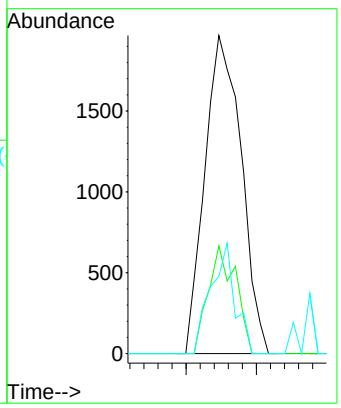


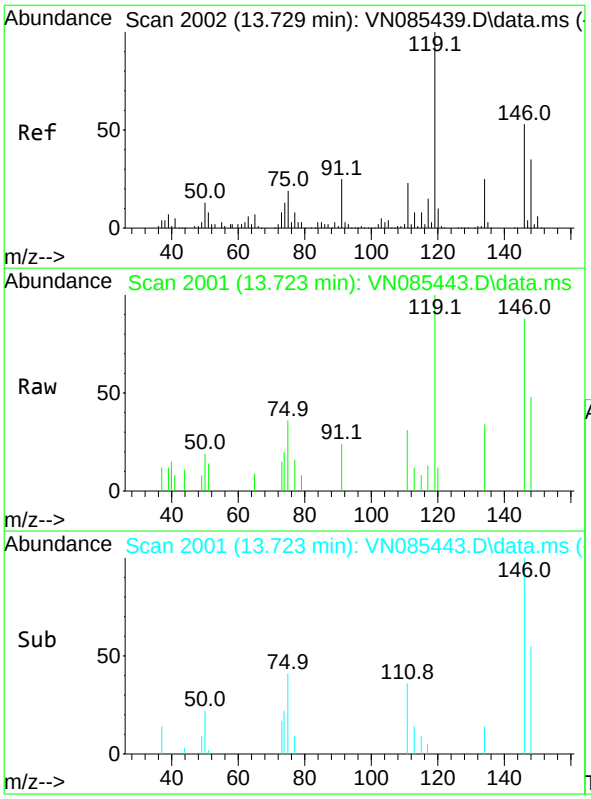




#86
p-Isopropyltoluene
Concen: 0.716 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:119 Resp: 3538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.6 | 12.7 | 38.0 |
| 91 | 23.2 | 12.7 | 38.1 |






#87
1,3-Dichlorobenzene
Concen: 0.940 ug/l
RT: 13.723 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

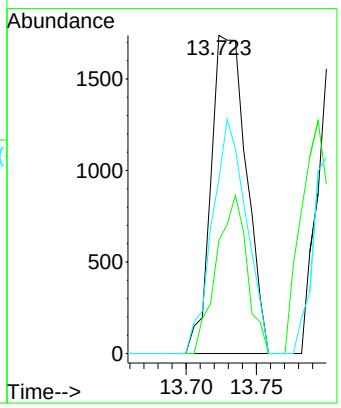
Tgt Ion:146 Resp: 3038

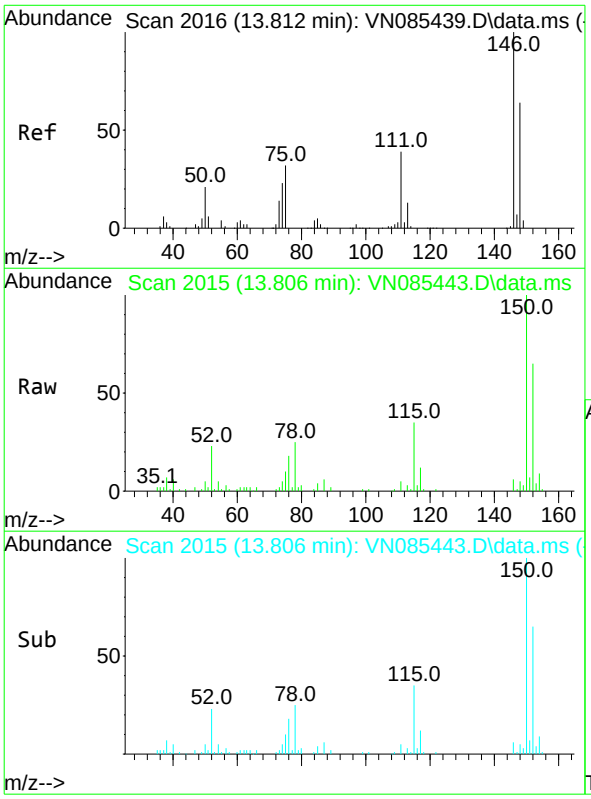
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.0 | 21.4 | 64.3 |
| 148 | 70.9 | 32.3 | 96.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

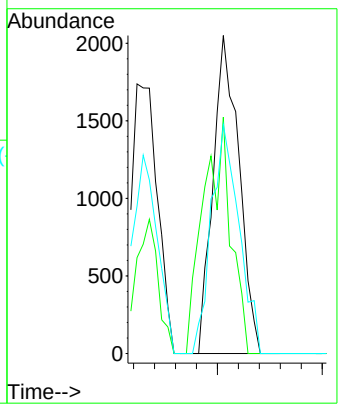


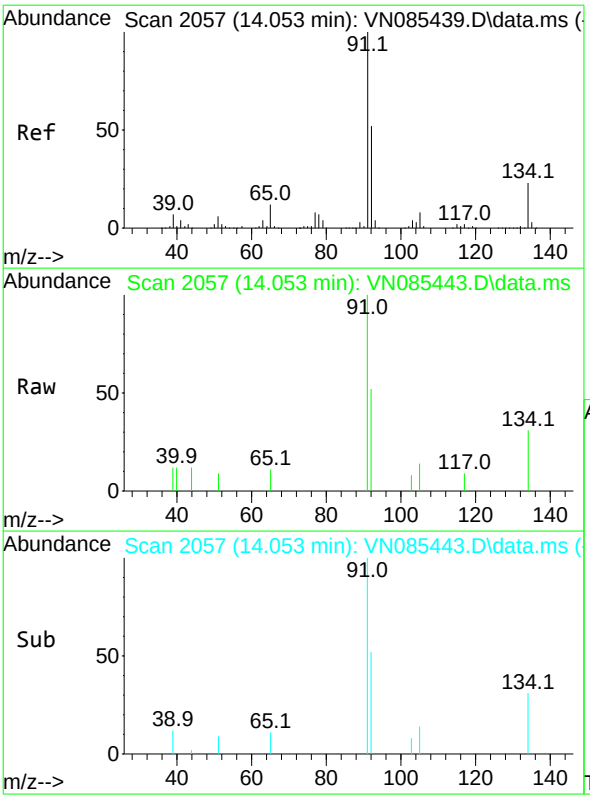




#88
1,4-Dichlorobenzene
Concen: 1.050 ug/l m
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:146 Resp: 3517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.2 | 21.3 | 63.7 |
| 148 | 61.2 | 32.4 | 97.0 |






#89
n-Butylbenzene
Concen: 0.761 ug/l
RT: 14.053 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 91 Resp: 3527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.2 | 25.8 | 77.3 |
| 134 | 25.5 | 11.7 | 35.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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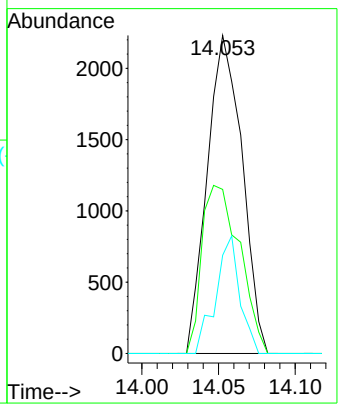
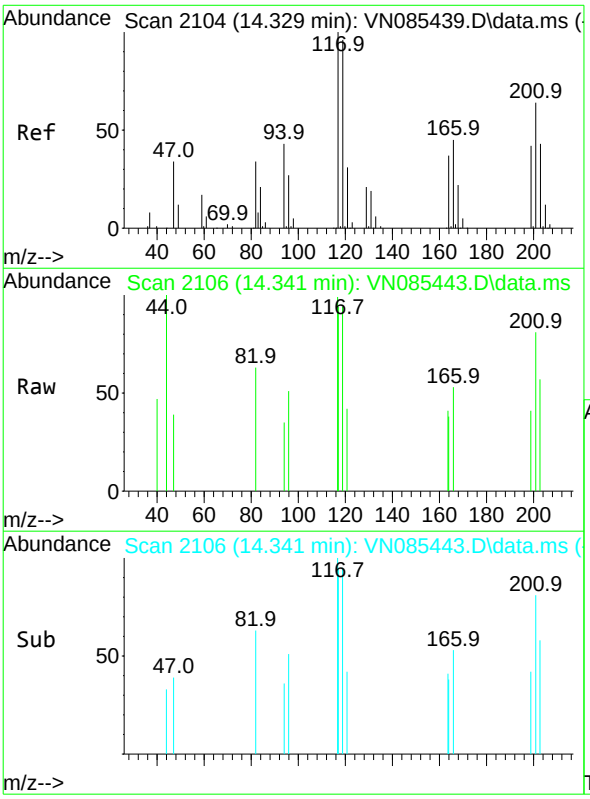
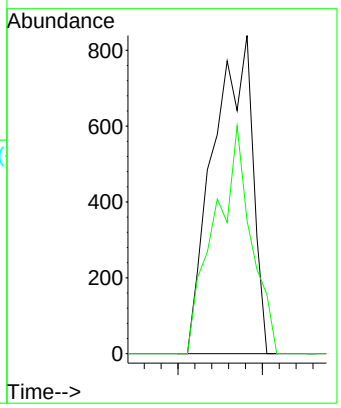


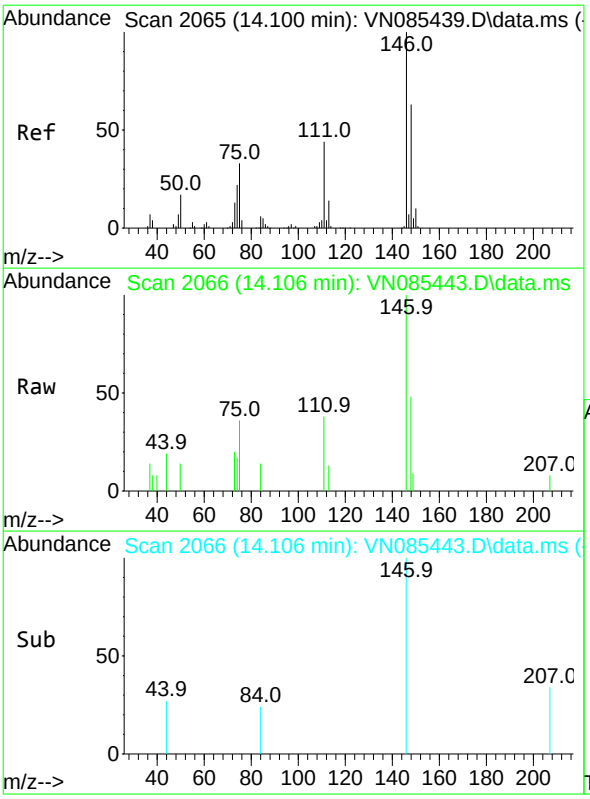




#90
Hexachloroethane
Concen: 1.102 ug/l
RT: 14.341 min Scan# 2106
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:117 Resp: 1355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 66.5 | 33.7 | 101.0 |






#91
1,2-Dichlorobenzene
Concen: 1.090 ug/l
RT: 14.106 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:146 Resp: 3515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.4 | 21.7 | 65.1 |
| 148 | 57.8 | 31.4 | 94.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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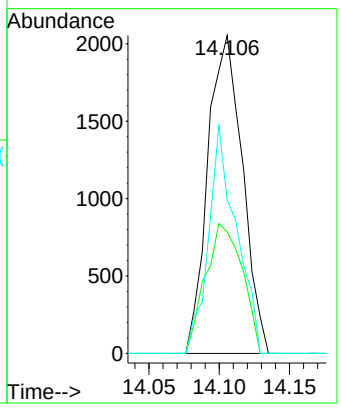
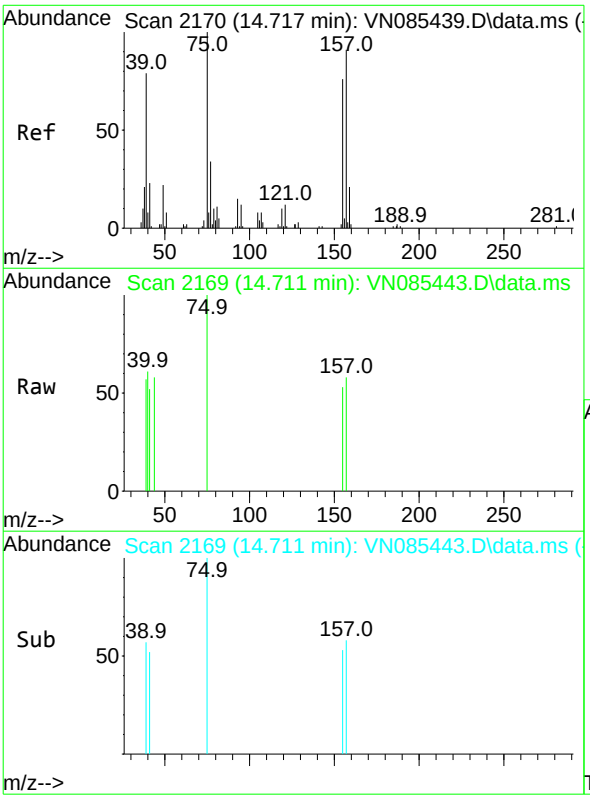
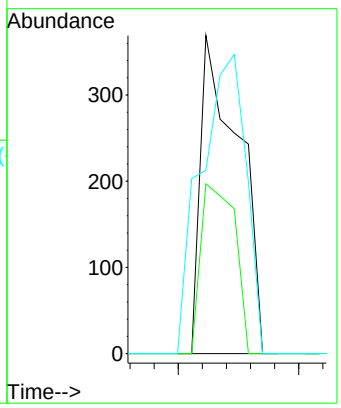


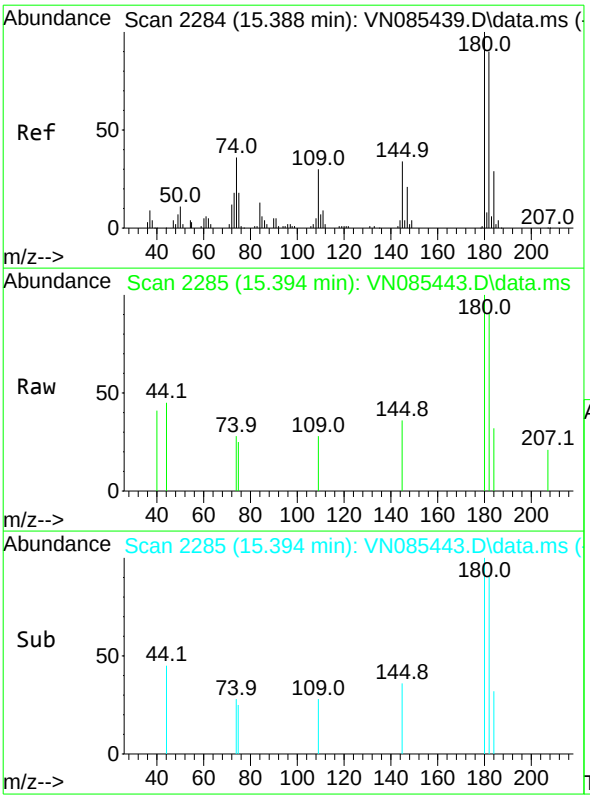




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.928 ug/l
RT: 14.711 min Scan# 2169
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 75 Resp: 402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 48.0 | 36.4 | 109.2 |
| 157 | 112.7 | 45.4 | 136.1 |






#93
1,2,4-Trichlorobenzene
Concen: 0.874 ug/l
RT: 15.394 min Scan# 22
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

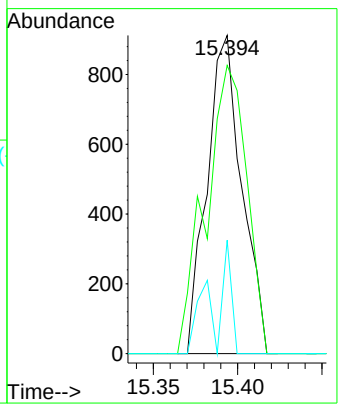
Tgt Ion:180 Resp: 1310

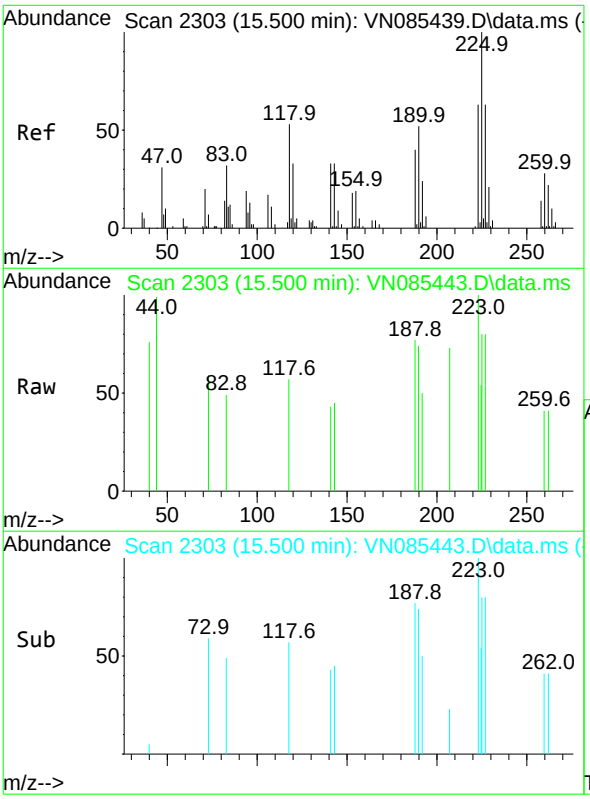
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 106.3 | 46.8 | 140.3 |
| 145 | 9.7 | 16.0 | 48.0# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

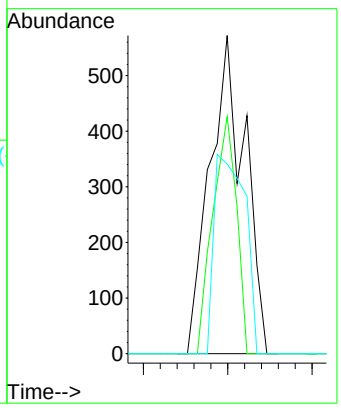


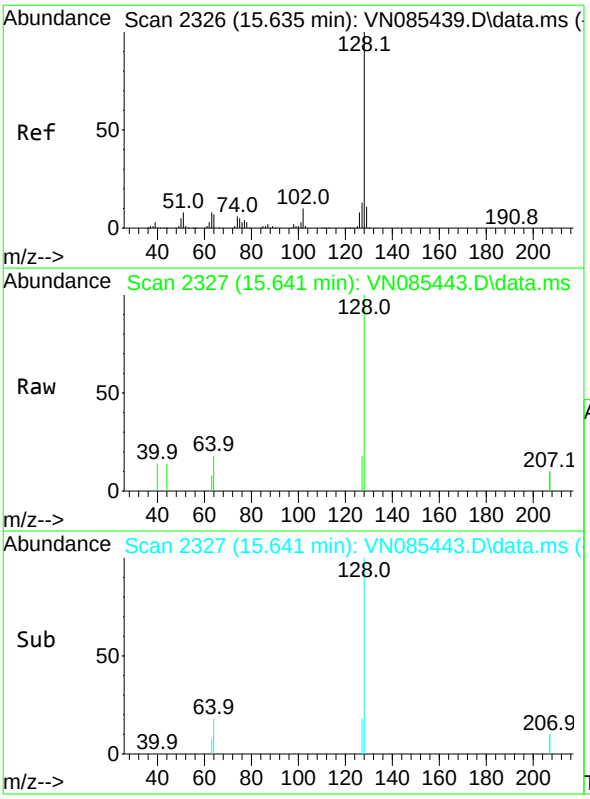




#94
Hexachlorobutadiene
Concen: 1.033 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:225 Resp: 822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 50.7 | 30.7 | 92.1 |
| 227 | 55.7 | 30.9 | 92.5 |






#95
Naphthalene
Concen: 0.941 ug/l
RT: 15.641 min Scan# 23
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

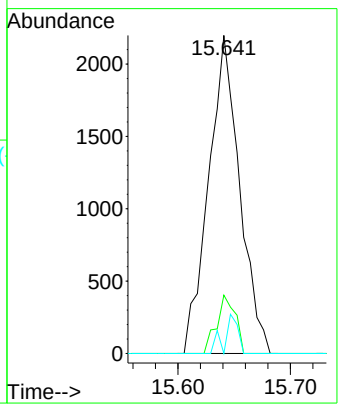
Tgt Ion:128 Resp: 4210

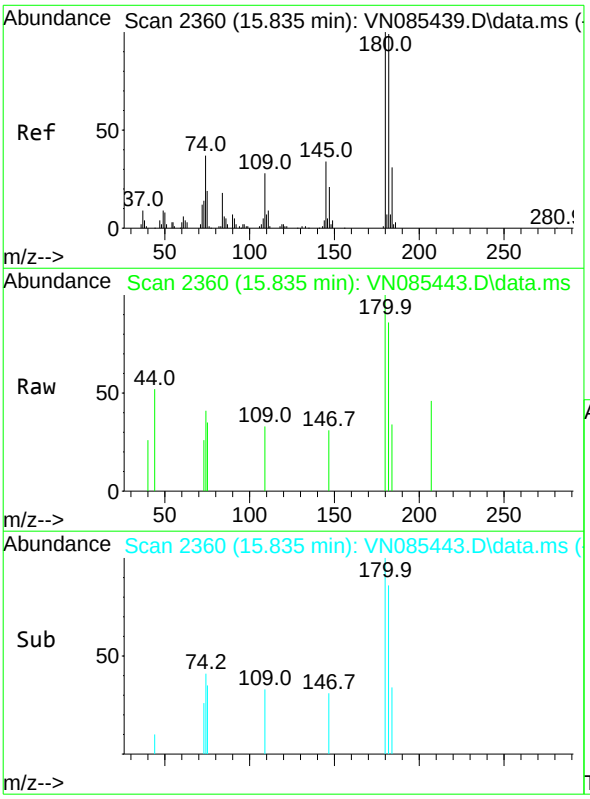
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 11.1 | 10.6 | 16.0 |
| 129 | 5.3 | 8.8 | 13.2# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

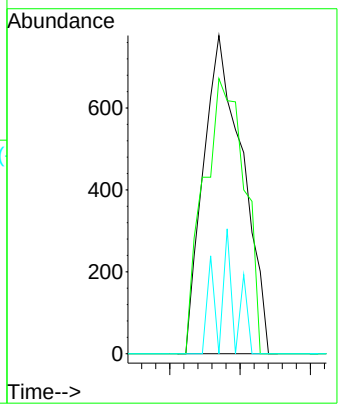



#96
1,2,3-Trichlorobenzene
Concen: 0.985 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:180 Resp: 1494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 90.2 | 47.4 | 142.2 |
| 145 | 11.8 | 16.9 | 50.7# |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 219757 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.094 | 114 | 370487 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 320948 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 158525 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.571 | 65 | 176594 | 49.782 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 99.560% | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 130487 | 50.768 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 101.540% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 477630 | 52.302 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 104.600% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 165249 | 52.899 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 105.800% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 130242 | 43.772 | ug/l | 100 |
| 3) Chloromethane | 2.360 | 50 | 138152 | 42.883 | ug/l | 99 |
| 4) Vinyl Chloride | 2.513 | 62 | 138316 | 42.715 | ug/l | 99 |
| 5) Bromomethane | 2.954 | 94 | 80019 | 40.910 | ug/l | 91 |
| 6) Chloroethane | 3.124 | 64 | 86837 | 42.299 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.501 | 101 | 206526 | 43.956 | ug/l | 99 |
| 8) Diethyl Ether | 3.959 | 74 | 69545 | 42.846 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 118310 | 44.706 | ug/l | 98 |
| 10) Methyl Iodide | 4.595 | 142 | 140190 | 46.259 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.518 | 59 | 83933 | 206.633 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 106880 | 45.317 | ug/l | 98 |
| 13) Acrolein | 4.177 | 56 | 135720 | 244.765 | ug/l | 99 |
| 14) Allyl chloride | 5.024 | 41 | 170308 | 44.501 | ug/l | 99 |
| 15) Acrylonitrile | 5.712 | 53 | 294062 | 227.920 | ug/l | 99 |
| 16) Acetone | 4.418 | 43 | 245248 | 213.971 | ug/l | 98 |
| 17) Carbon Disulfide | 4.712 | 76 | 300215 | 41.342 | ug/l | 100 |
| 18) Methyl Acetate | 5.018 | 43 | 156938 | 45.028 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.795 | 73 | 365819 | 47.768 | ug/l | 100 |
| 20) Methylene Chloride | 5.271 | 84 | 122059 | 43.017 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.783 | 96 | 112597 | 44.672 | ug/l | 93 |
| 22) Diisopropyl ether | 6.665 | 45 | 399206 | 46.996 | ug/l | 99 |
| 23) Vinyl Acetate | 6.601 | 43 | 1471068 | 247.459 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.571 | 63 | 228489 | 44.114 | ug/l | 98 |
| 25) 2-Butanone | 7.477 | 43 | 386125 | 228.924 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.489 | 77 | 199303 | 47.593 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.483 | 96 | 134920 | 45.446 | ug/l | 98 |
| 28) Bromochloromethane | 7.812 | 49 | 106323 | 44.122 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.836 | 42 | 255650 | 239.065 | ug/l | 99 |
| 30) Chloroform | 7.965 | 83 | 235923 | 44.071 | ug/l | 98 |
| 31) Cyclohexane | 8.253 | 56 | 193034 | 42.878 | ug/l | 93 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 208172 | 44.332 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.365 | 75 | 161834 | 44.863 | ug/l | 98 |
| 37) Ethyl Acetate | 7.559 | 43 | 160656 | 44.123 | ug/l | 97 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 183592 | 44.456 | ug/l | 99 |
| 39) Methylcyclohexane | 9.600 | 83 | 168431 | 49.687 | ug/l | 98 |
| 40) Benzene | 8.600 | 78 | 494871 | 45.657 | ug/l | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.777 | 41 | 89326 | 47.155 ug/l | 99 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 185663 | 45.481 ug/l | 100 |
| 43) Isopropyl Acetate | 8.683 | 43 | 265107 | 45.440 ug/l | 99 |
| 44) Trichloroethene | 9.347 | 130 | 110058 | 43.622 ug/l | 96 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 123876 | 44.744 ug/l | 97 |
| 46) Dibromomethane | 9.700 | 93 | 88325 | 44.214 ug/l | 98 |
| 47) Bromodichloromethane | 9.889 | 83 | 185808 | 45.655 ug/l | 99 |
| 48) Methyl methacrylate | 9.677 | 41 | 131142 | 49.948 ug/l | 97 |
| 49) 1,4-Dioxane | 9.689 | 88 | 35051 | 792.760 ug/l | 98 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 832426 | 245.877 ug/l | 99 |
| 52) Toluene | 10.630 | 92 | 301911 | 48.073 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.830 | 75 | 183680 | 47.757 ug/l | 94 |
| 54) cis-1,3-Dichloropropene | 10.312 | 75 | 196307 | 47.783 ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 114757 | 46.173 ug/l | 97 |
| 56) Ethyl methacrylate | 10.871 | 69 | 182170 | 43.762 ug/l | 98 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 202583 | 46.877 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 403949 | 256.116 ug/l | 99 |
| 59) 2-Hexanone | 11.194 | 43 | 598433 | 251.213 ug/l | 100 |
| 60) Dibromochloromethane | 11.353 | 129 | 137831 | 45.935 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 110926 | 44.837 ug/l | 100 |
| 64) Tetrachloroethene | 11.100 | 164 | 98211 | 44.886 ug/l | 96 |
| 65) Chlorobenzene | 11.888 | 112 | 322723 | 45.901 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 115379 | 44.712 ug/l | 99 |
| 67) Ethyl Benzene | 11.959 | 91 | 577059 | 50.391 ug/l | 97 |
| 68) m/p-Xylenes | 12.071 | 106 | 437367 | 103.341 ug/l | 100 |
| 69) o-Xylene | 12.394 | 106 | 210698 | 52.093 ug/l | 99 |
| 70) Styrene | 12.406 | 104 | 355459 | 53.103 ug/l | 100 |
| 71) Bromoform | 12.577 | 173 | 90693 | 49.119 ug/l # | 100 |
| 73) Isopropylbenzene | 12.694 | 105 | 534428 | 49.951 ug/l | 99 |
| 74) N-amyl acetate | 12.488 | 43 | 234342 | 48.730 ug/l | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 164882 | 43.627 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 134976m | 41.891 ug/l | |
| 77) Bromobenzene | 12.977 | 156 | 128968 | 46.138 ug/l | 97 |
| 78) n-propylbenzene | 13.029 | 91 | 645977 | 51.001 ug/l | 100 |
| 79) 2-Chlorotoluene | 13.124 | 91 | 392404 | 47.870 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.171 | 105 | 456048 | 51.604 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 58623m | 49.226 ug/l | |
| 82) 4-Chlorotoluene | 13.218 | 91 | 398110 | 48.776 ug/l | 100 |
| 83) tert-Butylbenzene | 13.435 | 119 | 378478 | 50.997 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.477 | 105 | 457340 | 51.922 ug/l | 100 |
| 85) sec-Butylbenzene | 13.612 | 105 | 532578 | 51.777 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.729 | 119 | 440284 | 47.795 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 236387 | 45.920 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.806 | 146 | 235319 | 44.102 ug/l | 99 |
| 89) n-Butylbenzene | 14.053 | 91 | 373227 | 50.578 ug/l | 99 |
| 90) Hexachloroethane | 14.329 | 117 | 88538 | 45.215 ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 14.100 | 146 | 231646 | 45.113 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.718 | 75 | 31899 | 46.221 ug/l | 97 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 109157 | 45.739 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 53358 | 42.112 ug/l | 99 |
| 95) Naphthalene | 15.641 | 128 | 335535 | 47.116 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 107583 | 44.551 ug/l | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

ICAL Form

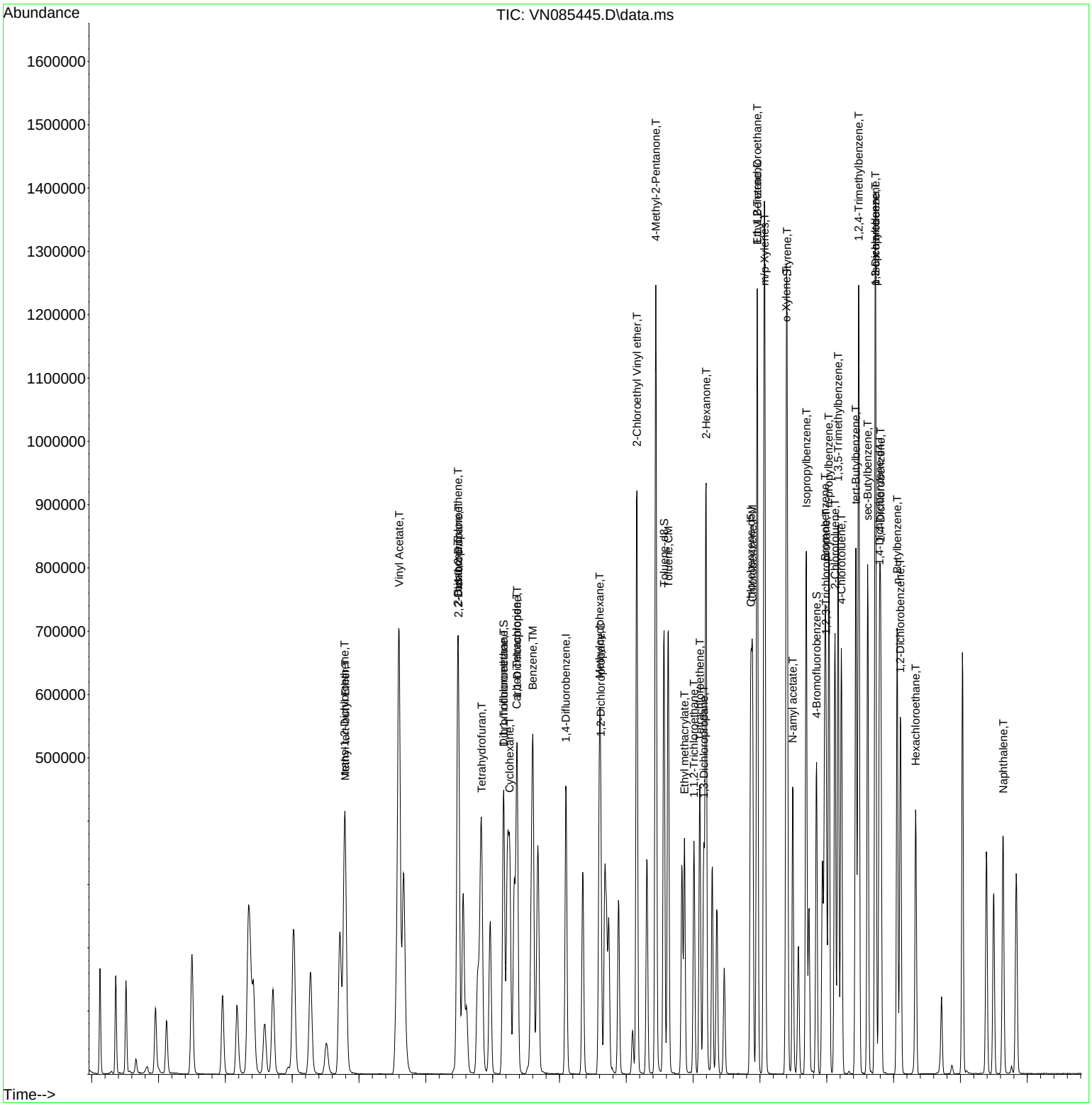
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

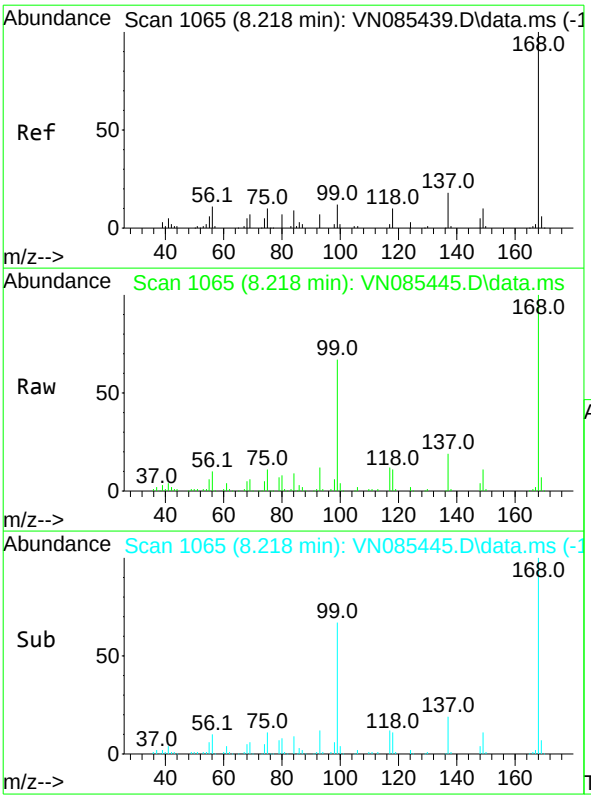
Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

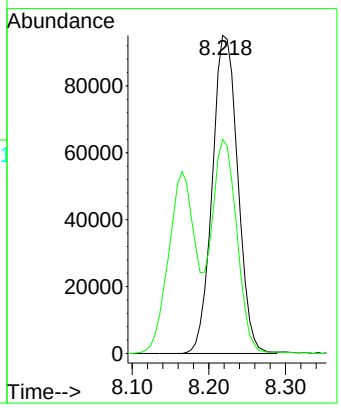
Tgt Ion:168 Resp: 219757

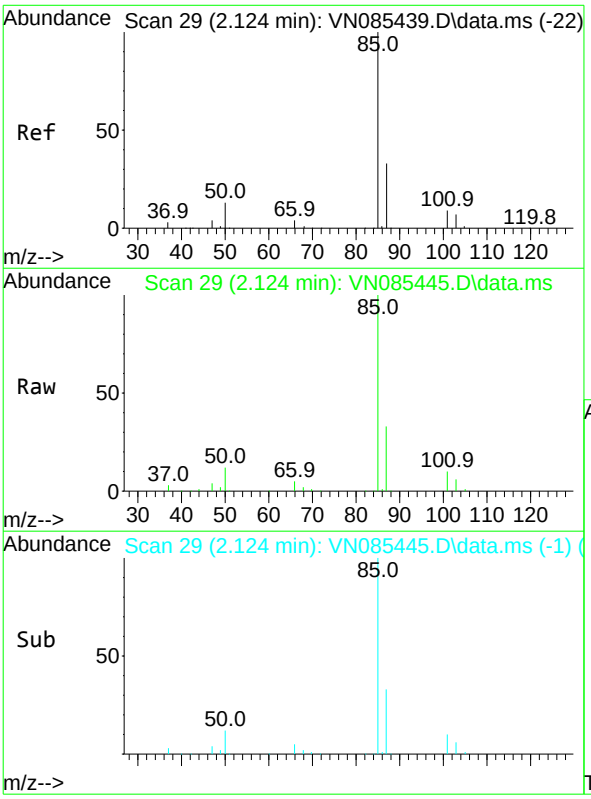
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 66.9 | 53.6 | 80.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

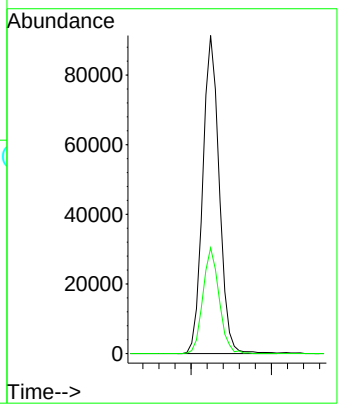


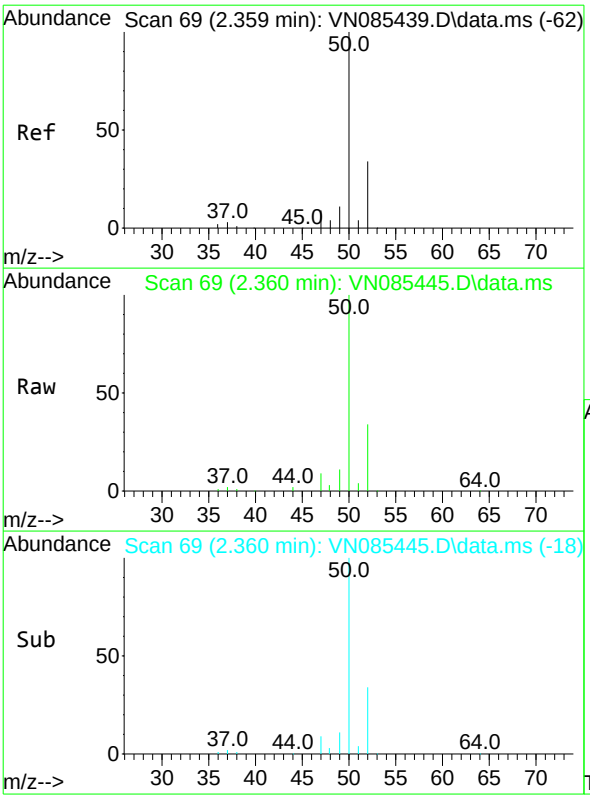




#2
Dichlorodifluoromethane
Concen: 43.772 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 85 Resp: 130242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.2 | 16.7 | 50.1 |

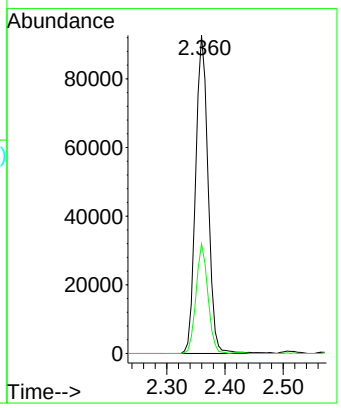





#3
Chloromethane
Concen: 42.883 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 50 Resp: 138152

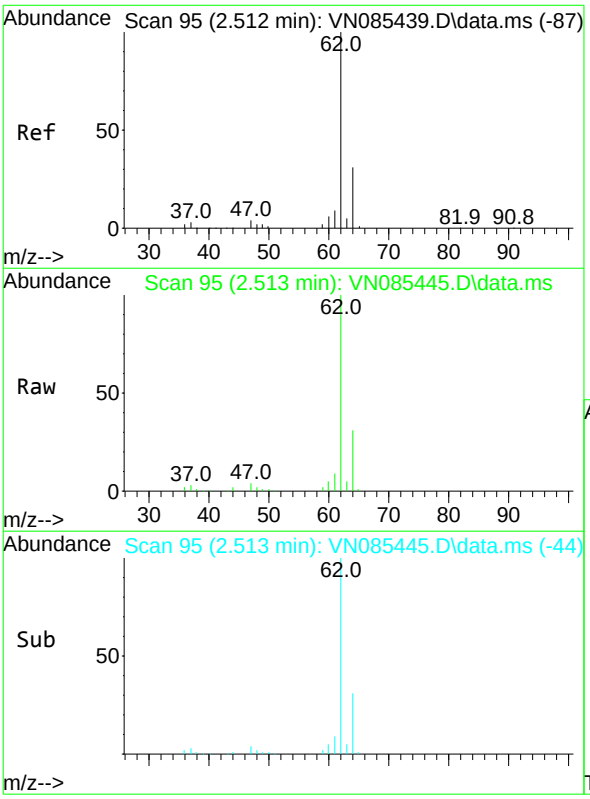
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.4 | 27.0 | 40.6 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

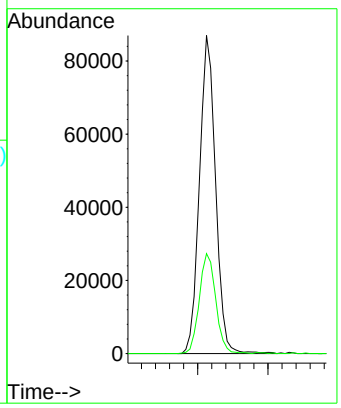
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

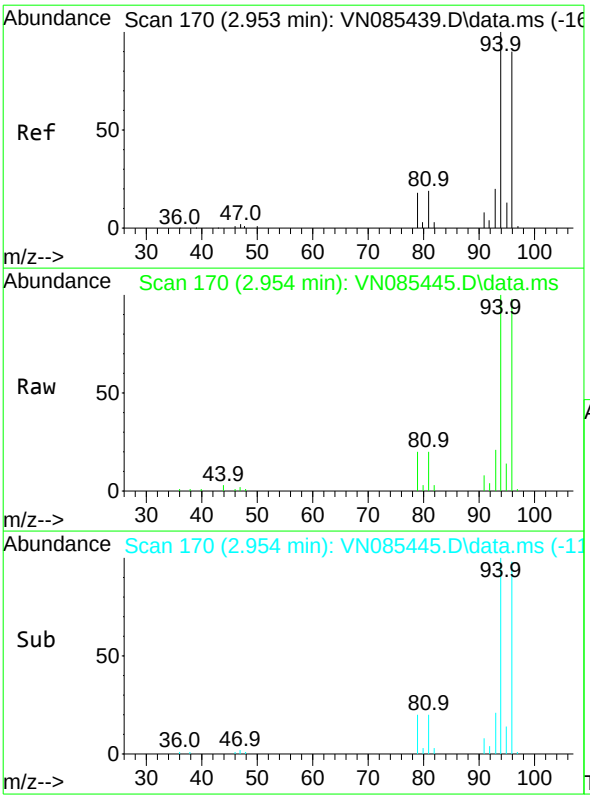



#4
Vinyl Chloride
Concen: 42.715 ug/l
RT: 2.513 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 62 Resp: 138316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.4 | 24.8 | 37.2 |






#5
Bromomethane
Concen: 40.910 ug/l
RT: 2.954 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

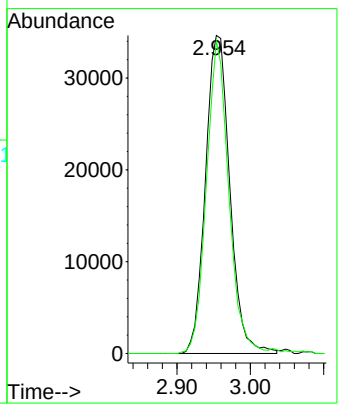
Tgt Ion: 94 Resp: 80019

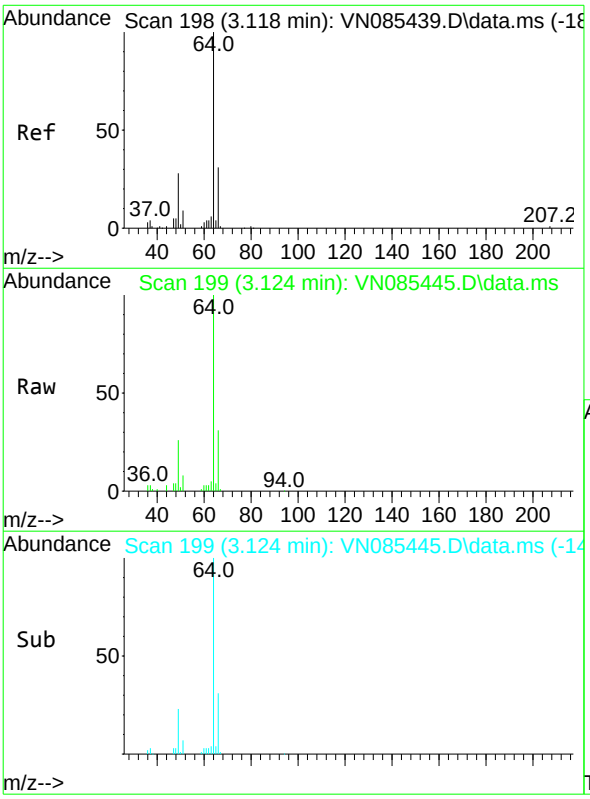
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 98.2 | 71.8 | 107.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

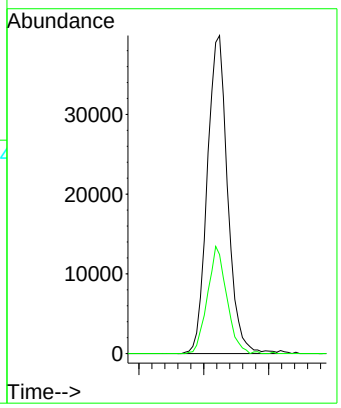


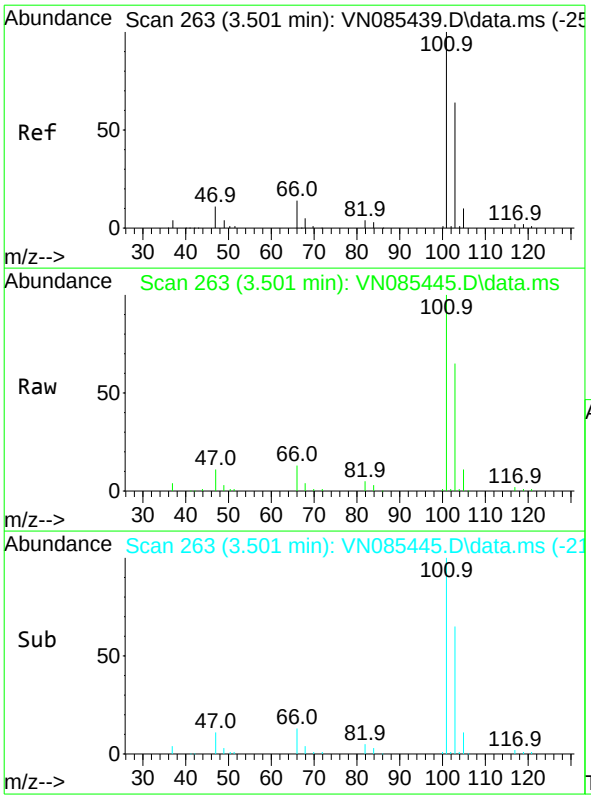




#6
Chloroethane
Concen: 42.299 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 64 Resp: 86837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.1 | 24.6 | 36.8 |






#7
Trichlorofluoromethane
Concen: 43.956 ug/l
RT: 3.501 min Scan# 26
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

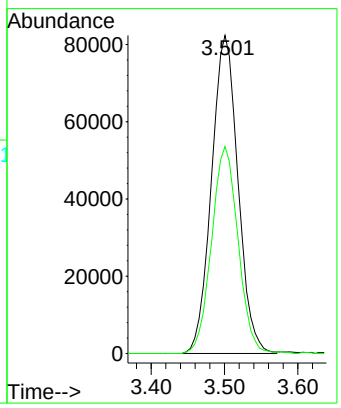
Tgt Ion:101 Resp: 206526

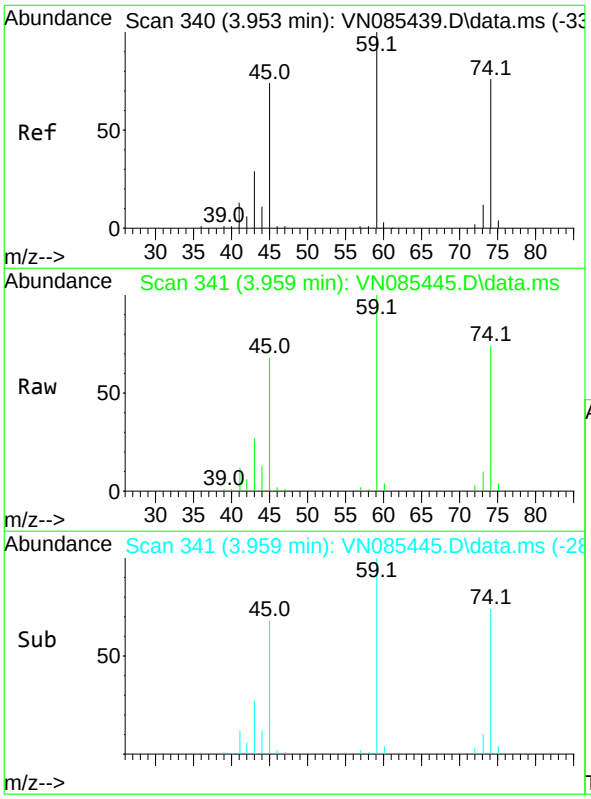
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.1 | 51.4 | 77.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

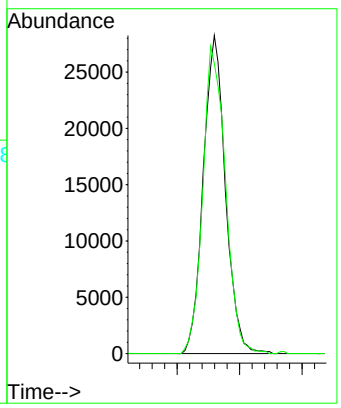


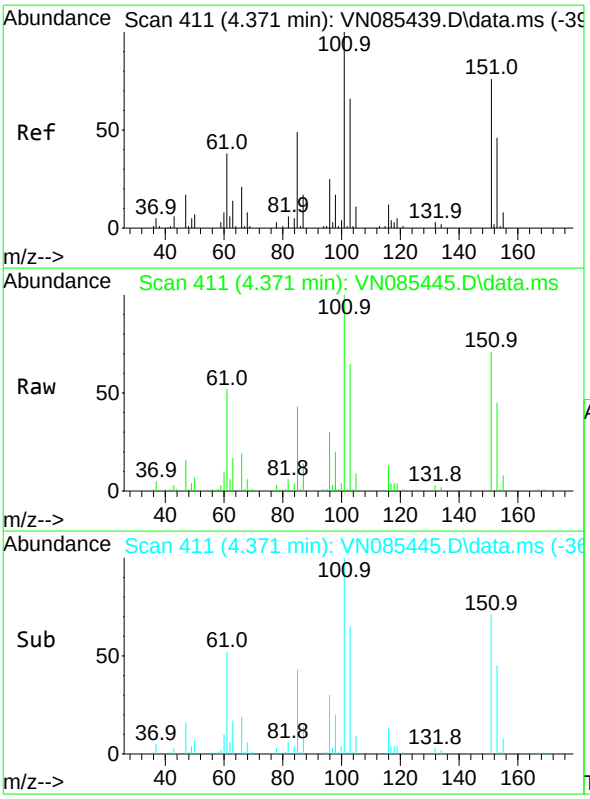




#8
Diethyl Ether
Concen: 42.846 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 74 Resp: 69545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 99.0 | 49.7 | 149.1 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.706 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:101 Resp: 118310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.9 | 37.8 | 56.8 |
| 151 | 71.5 | 58.8 | 88.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
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Reviewed By :John Carlone 01/15/2025
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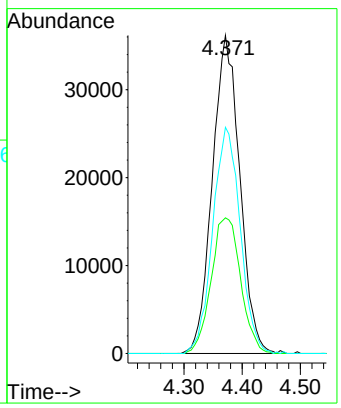
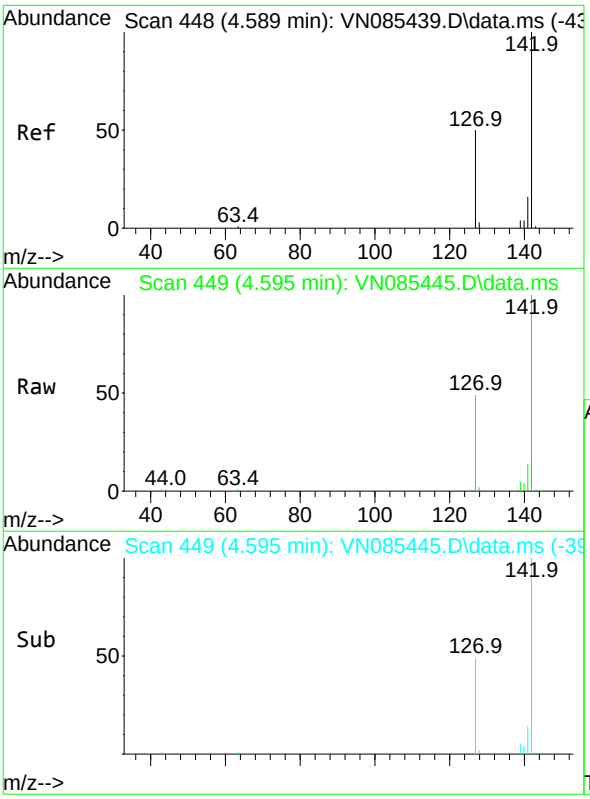
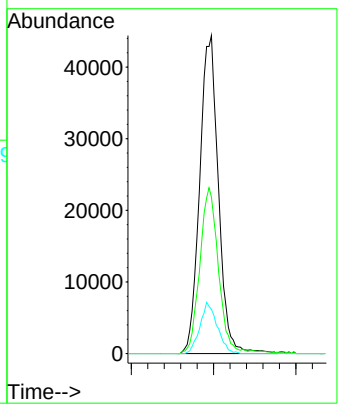


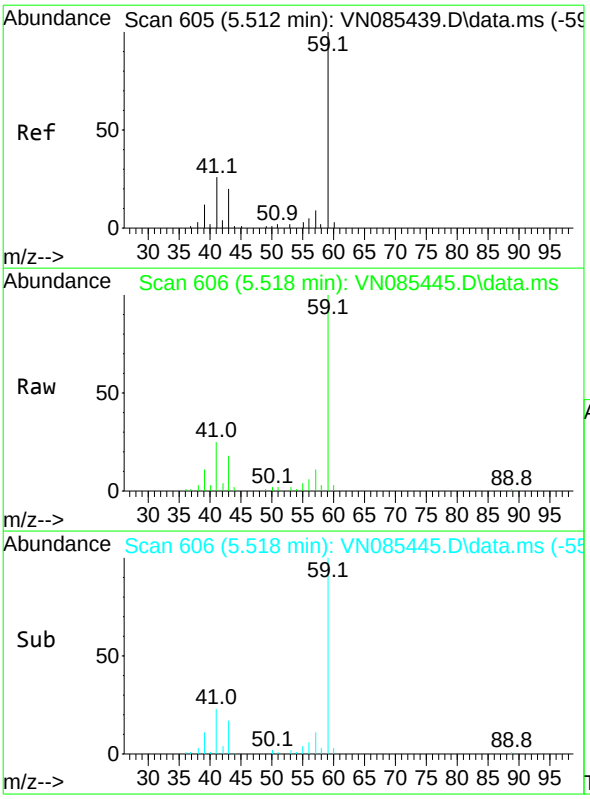




#10
Methyl Iodide
Concen: 46.259 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:142 Resp: 140190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 49.2 | 40.3 | 60.5 |
| 141 | 13.9 | 12.8 | 19.2 |






#11
Tert butyl alcohol
Concen: 206.633 ug/l
RT: 5.518 min Scan# 60
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

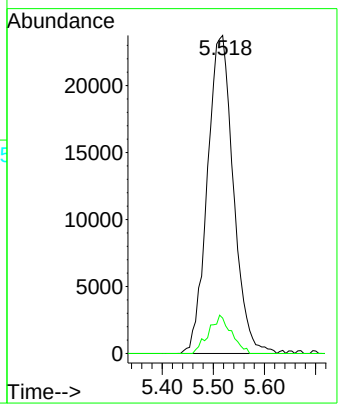
Tgt Ion: 59 Resp: 83933

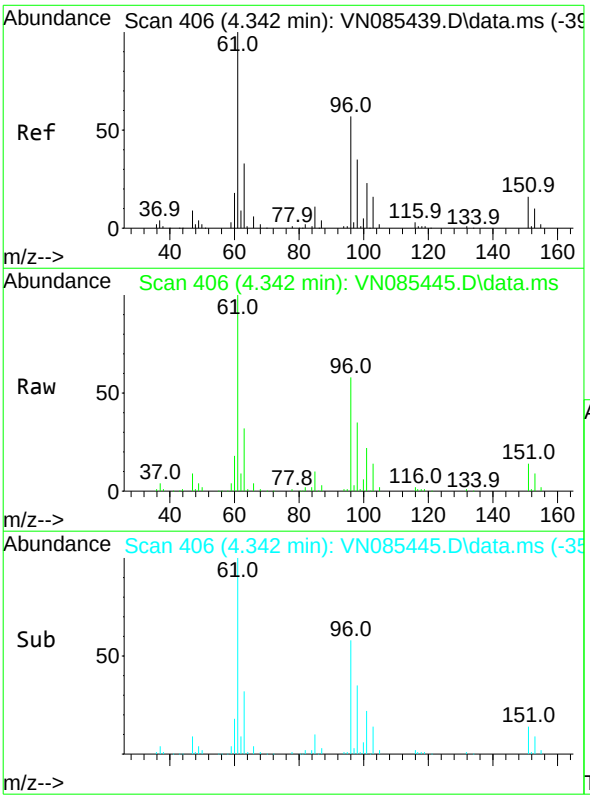
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.4 | 8.6 | 13.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

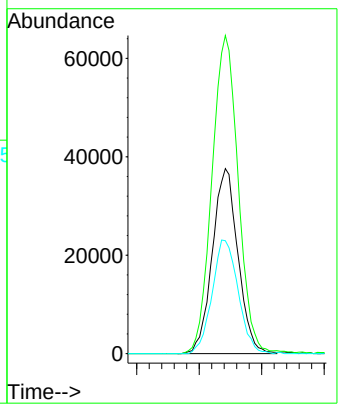


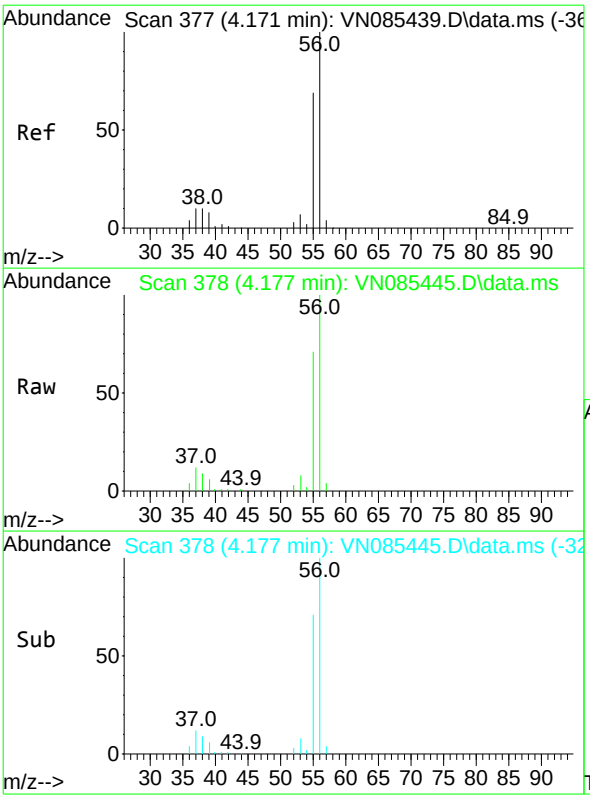




#12
1,1-Dichloroethene
Concen: 45.317 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 96 Resp: 106880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 171.9 | 141.0 | 211.4 |
| 98 | 61.0 | 49.0 | 73.6 |






#13
Acrolein
Concen: 244.765 ug/l
RT: 4.177 min Scan# 37
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 56 Resp: 135720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.9 | 56.3 | 84.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
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Reviewed By :John Carlone 01/15/2025
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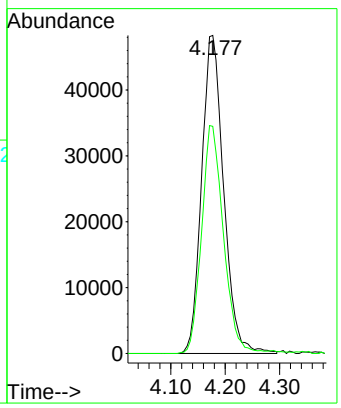
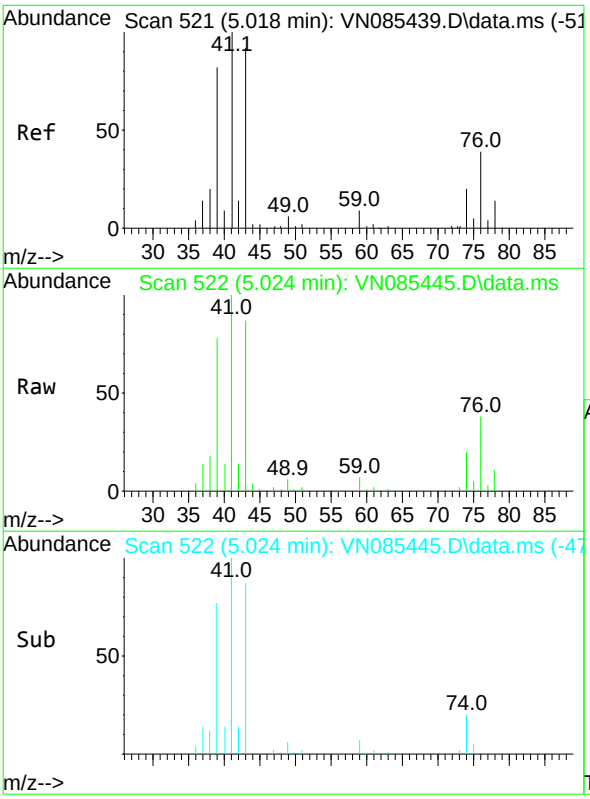
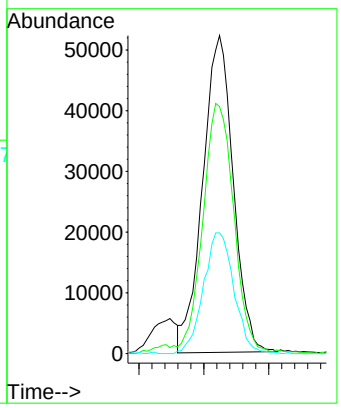


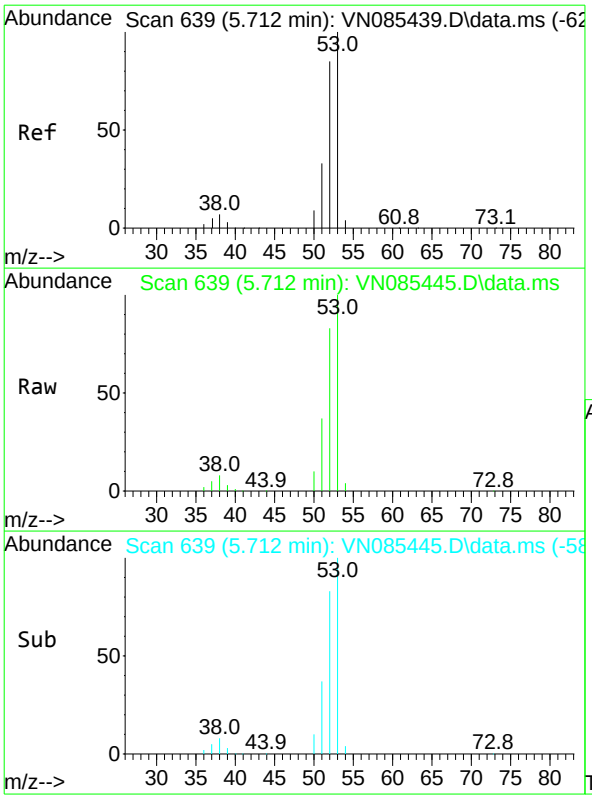




#14
Allyl chloride
Concen: 44.501 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 41 Resp: 170308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 78.9 | 64.4 | 96.6 |
| 76 | 38.2 | 30.5 | 45.7 |






#15
Acrylonitrile
Concen: 227.920 ug/l
RT: 5.712 min Scan# 63
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 53 Resp: 294062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.7 | 65.5 | 98.3 |
| 51 | 36.8 | 29.8 | 44.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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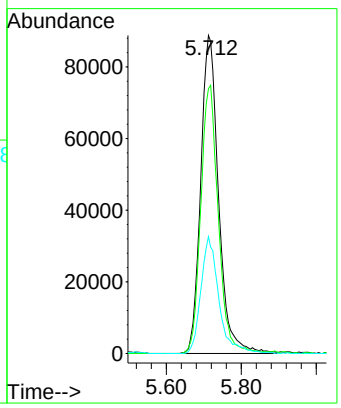
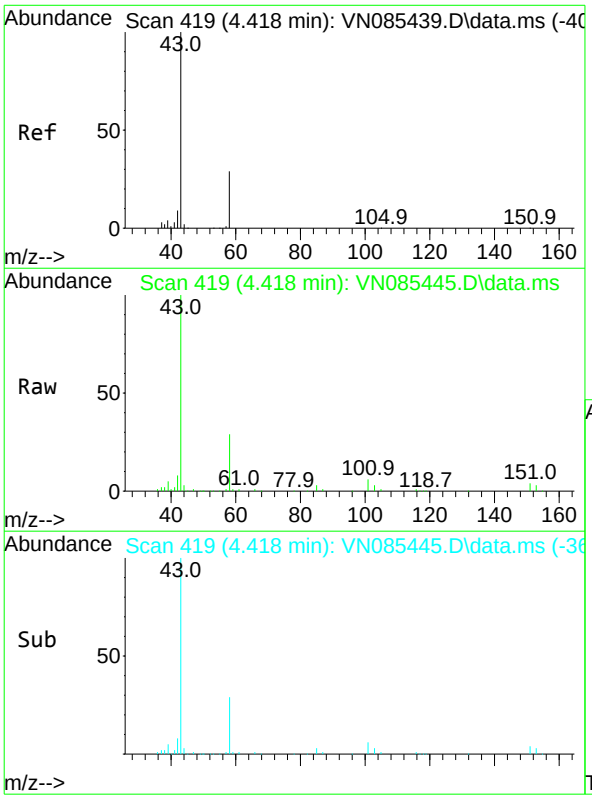
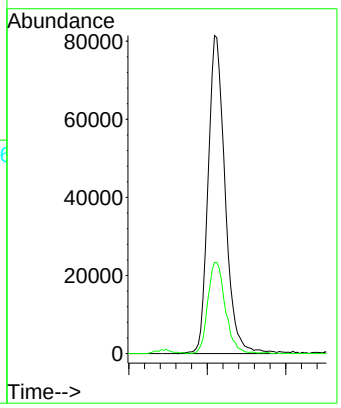


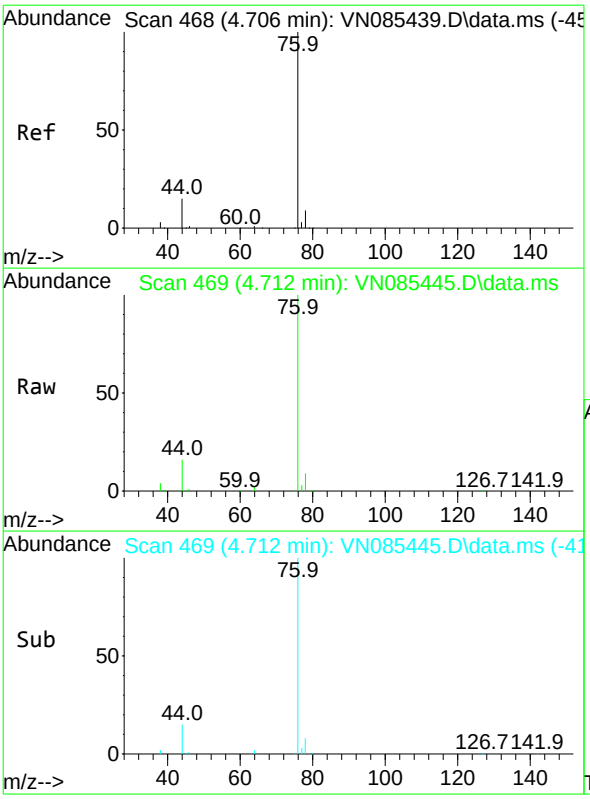




#16
Acetone
Concen: 213.971 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 245248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.4 | 23.8 | 35.6 |






#17
Carbon Disulfide
Concen: 41.342 ug/l
RT: 4.712 min Scan# 46
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 76 Resp: 300215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.7 | 6.9 | 10.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
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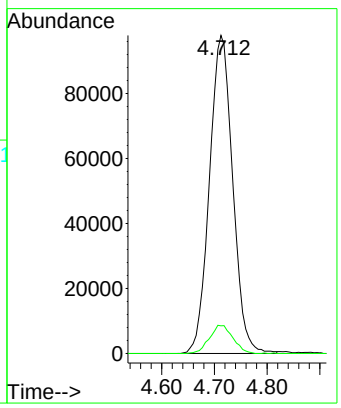
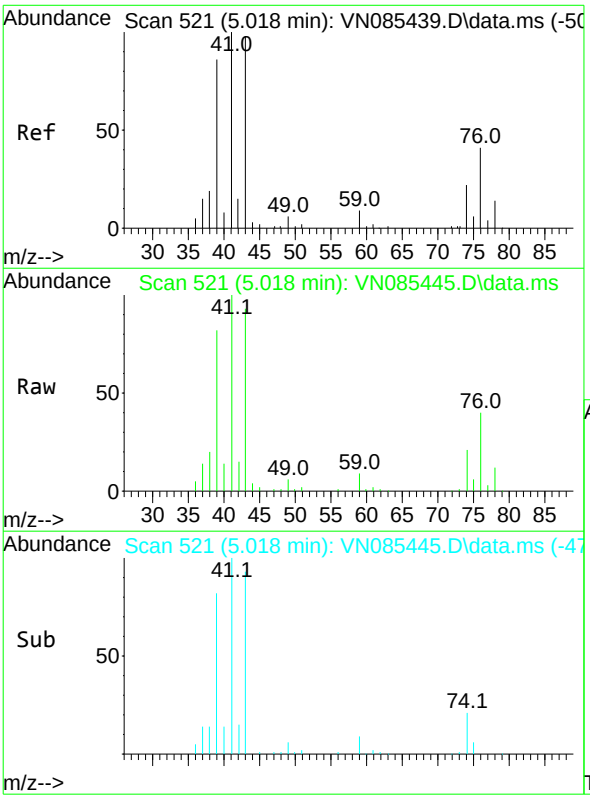
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

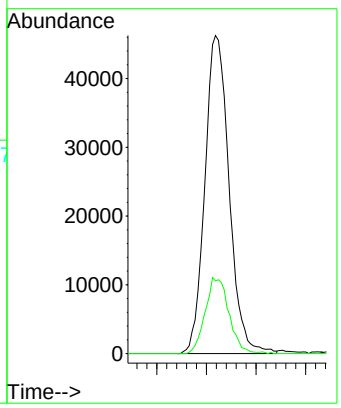


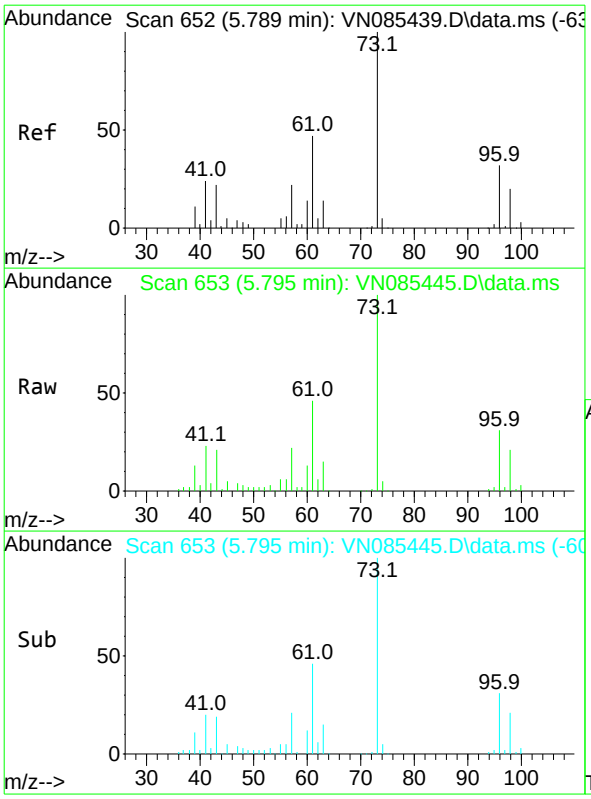




#18
Methyl Acetate
Concen: 45.028 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 156938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.4 | 18.6 | 28.0 |






#19
Methyl tert-butyl Ether
Concen: 47.768 ug/l
RT: 5.795 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 73 Resp: 365819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.3 | 17.8 | 26.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
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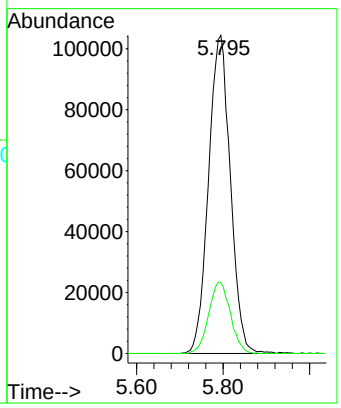
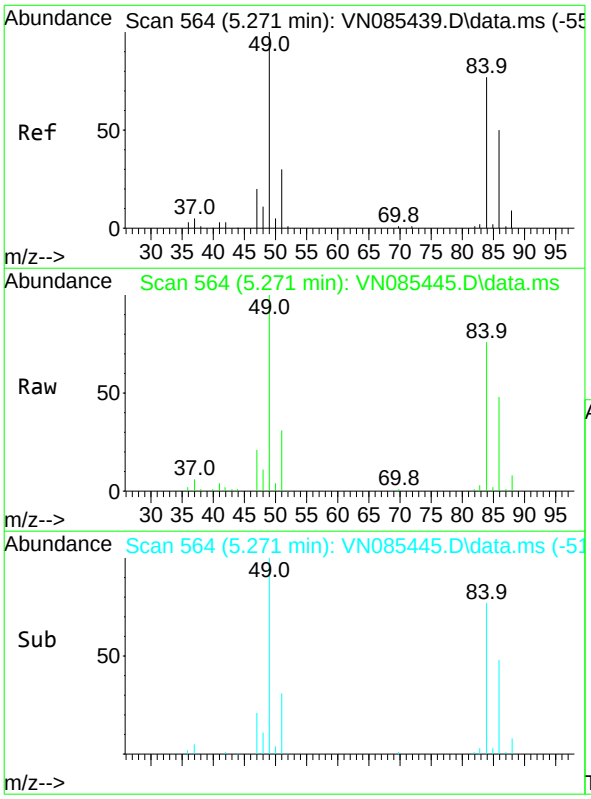
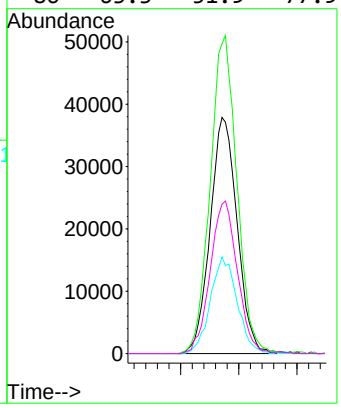


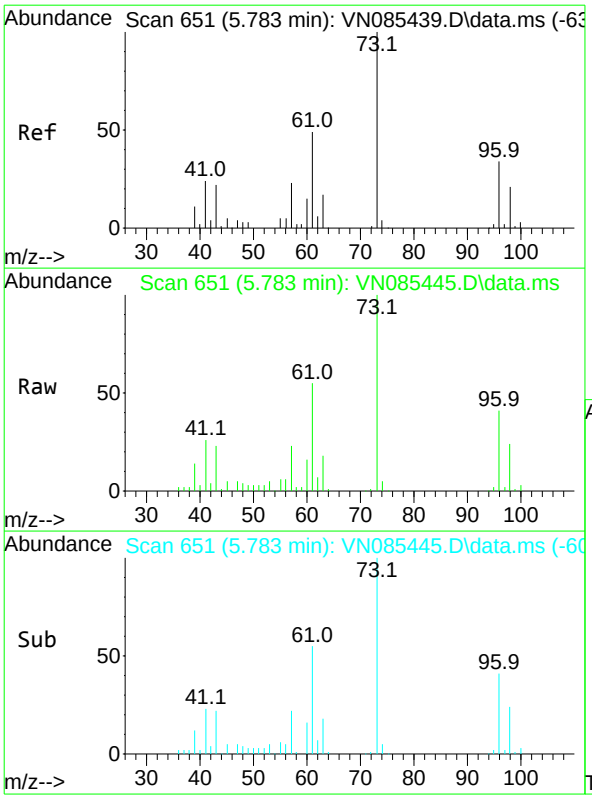




#20
Methylene Chloride
Concen: 43.017 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 84 Resp: 122059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 131.3 | 104.1 | 156.1 |
| 51 | 41.0 | 31.0 | 46.4 |
| 86 | 63.3 | 51.9 | 77.9 |






#21
trans-1,2-Dichloroethene
Concen: 44.672 ug/l
RT: 5.783 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 96 Resp: 112597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 134.3 | 115.7 | 173.5 |
| 98 | 59.1 | 49.8 | 74.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
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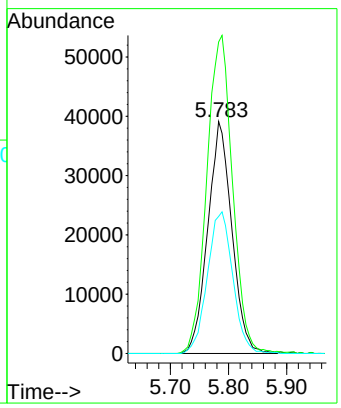
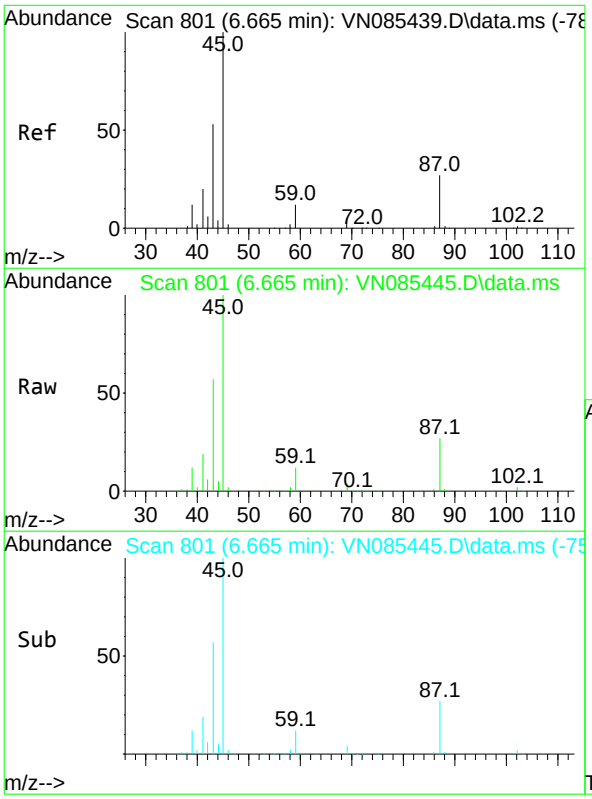
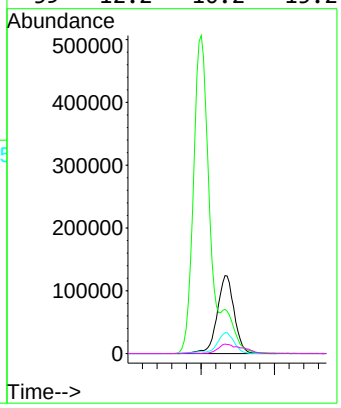


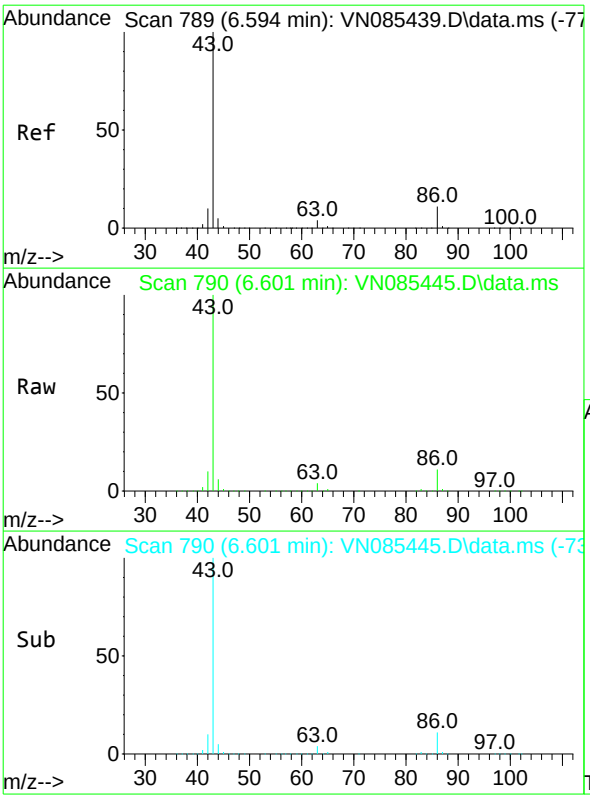




#22
Diisopropyl ether
Concen: 46.996 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 45 Resp: 399206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 56.0 | 45.0 | 67.6 |
| 87 | 26.8 | 21.8 | 32.8 |
| 59 | 12.2 | 10.2 | 15.2 |






#23
Vinyl Acetate
Concen: 247.459 ug/l
RT: 6.601 min Scan# 79
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 1471068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.7 | 8.4 | 12.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

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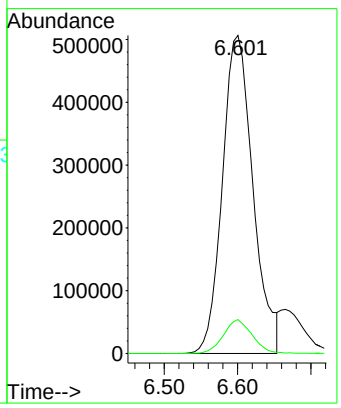
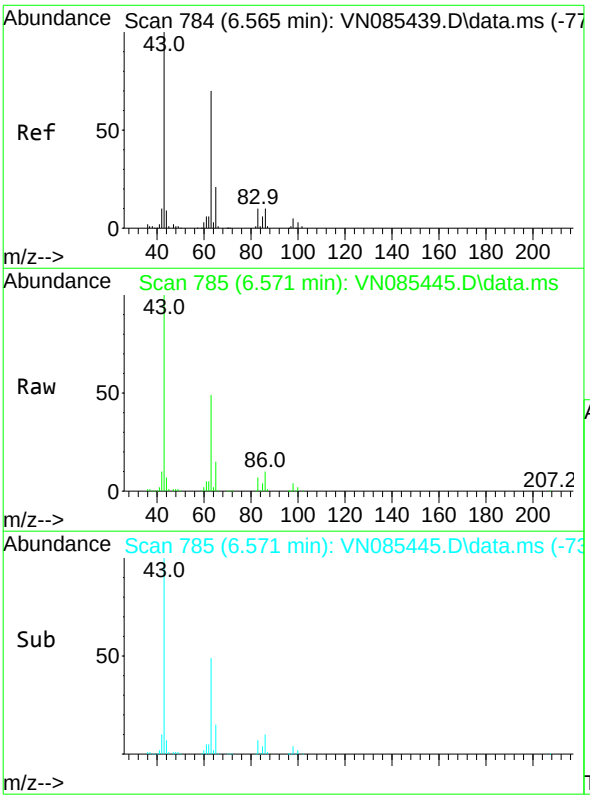
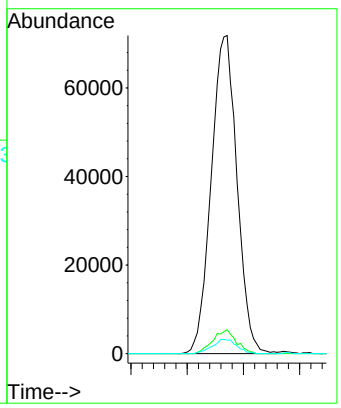


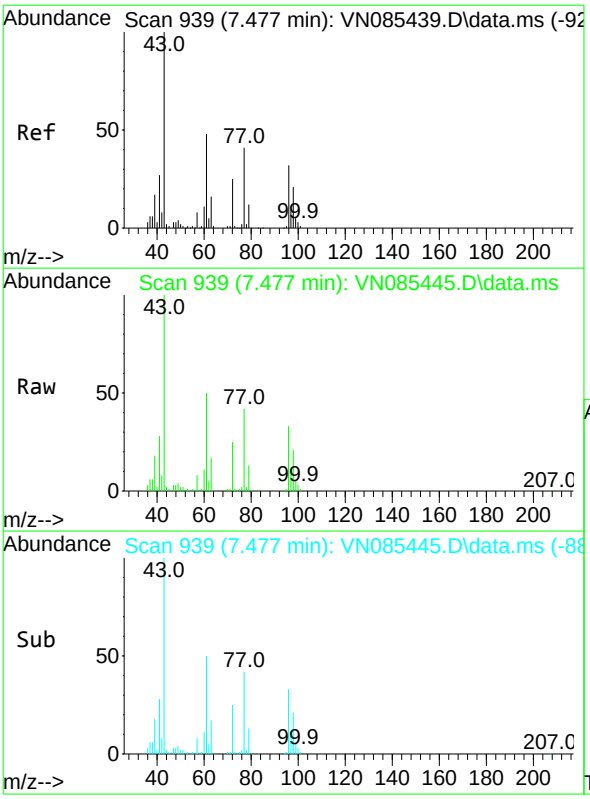




#24
1,1-Dichloroethane
Concen: 44.114 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 63 Resp: 228489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.5 | 3.3 | 9.8 |
| 100 | 4.2 | 2.0 | 6.0 |






#25
2-Butanone
Concen: 228.924 ug/l
RT: 7.477 min Scan# 93
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

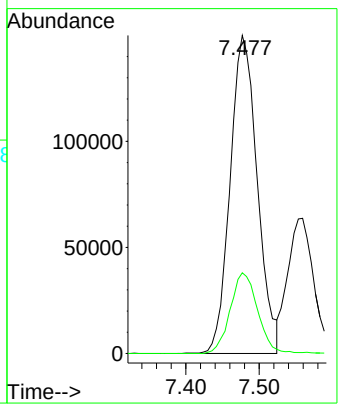
Tgt Ion: 43 Resp: 386125

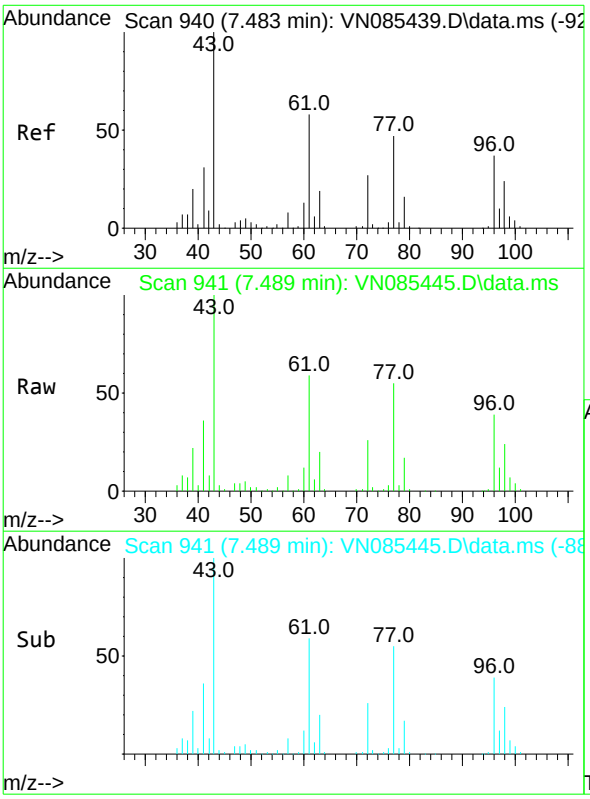
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.4 | 20.2 | 30.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

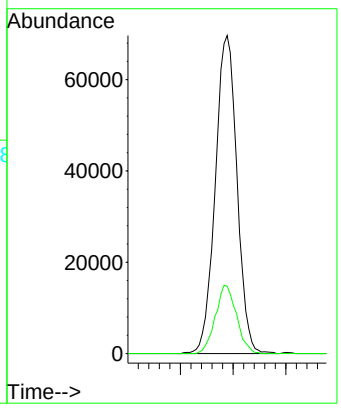


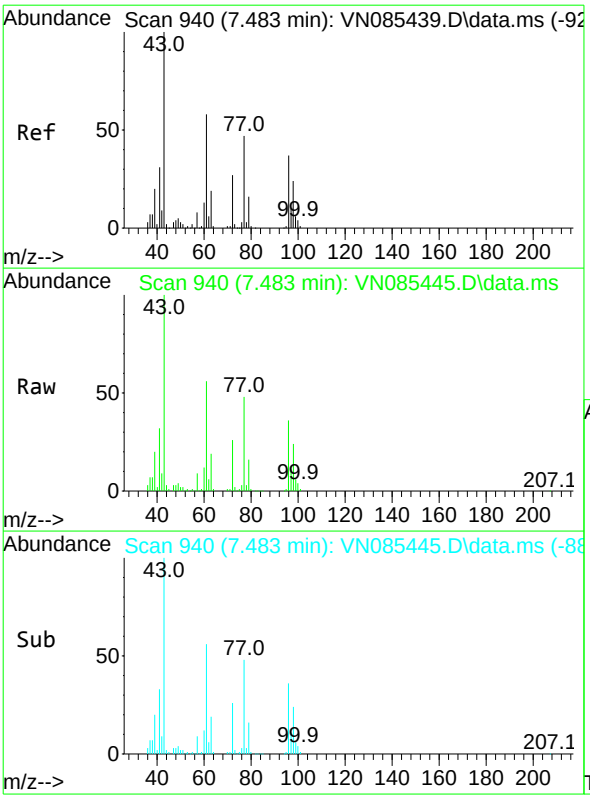




#26
2,2-Dichloropropane
Concen: 47.593 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 77 Resp: 199303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 20.9 | 10.7 | 32.1 |






#27
cis-1,2-Dichloroethene
Concen: 45.446 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

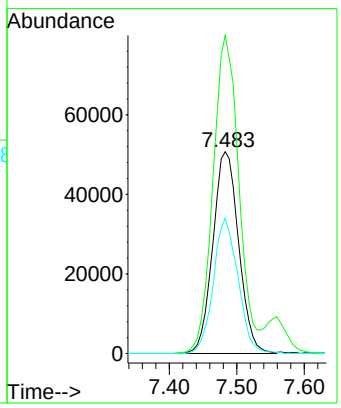
Tgt Ion: 96 Resp: 134920

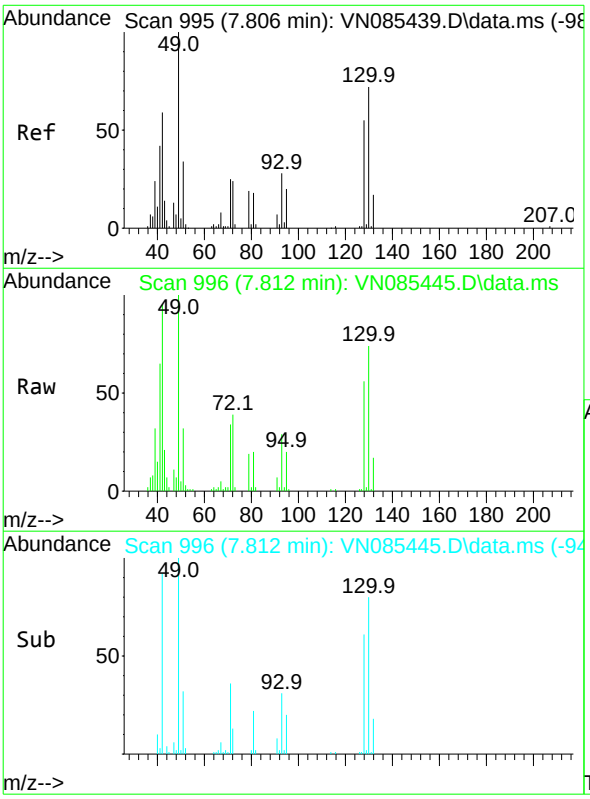
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.0 | 0.0 | 311.8 |
| 98 | 64.1 | 0.0 | 126.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

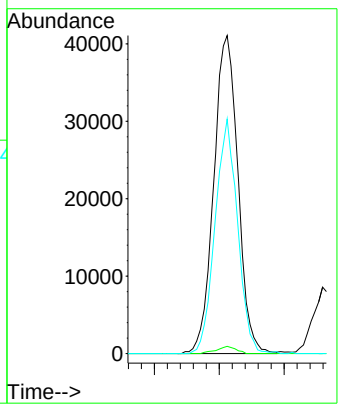


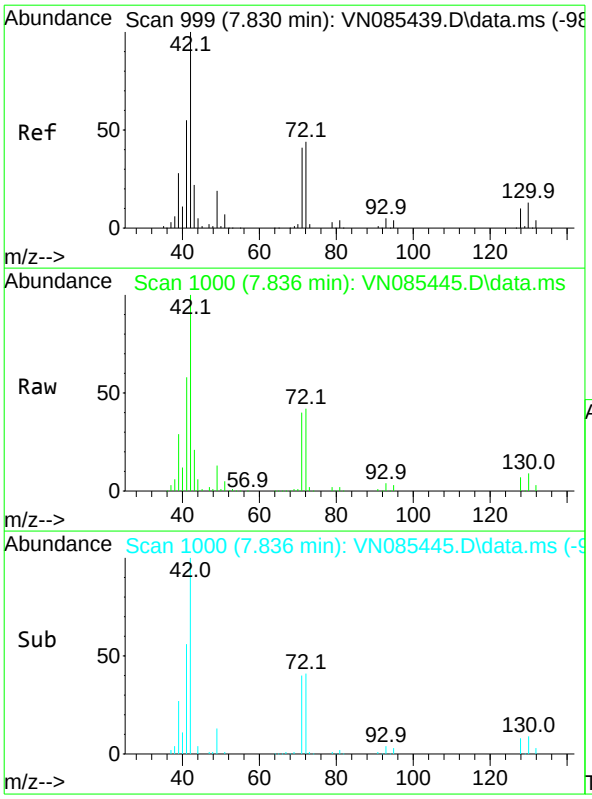




#28
Bromochloromethane
Concen: 44.122 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 49 Resp: 106323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 4.4 |
| 130 | 68.6 | 55.0 | 82.4 |






#29
Tetrahydrofuran
Concen: 239.065 ug/l
RT: 7.836 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

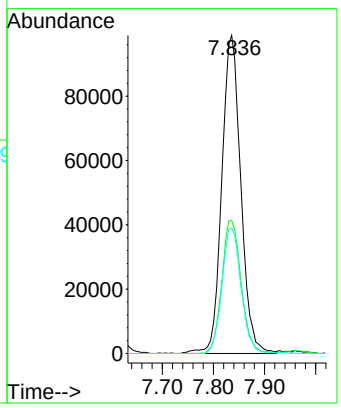
Tgt Ion: 42 Resp: 255650

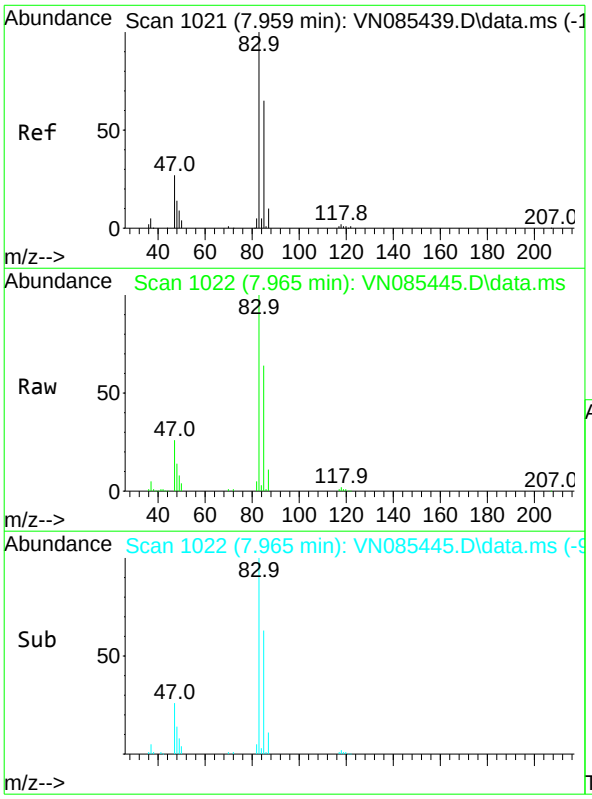
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.5 | 34.2 | 51.2 |
| 71 | 39.9 | 32.5 | 48.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

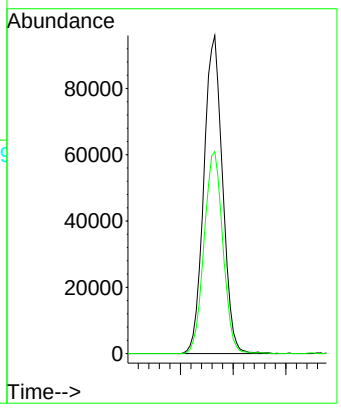


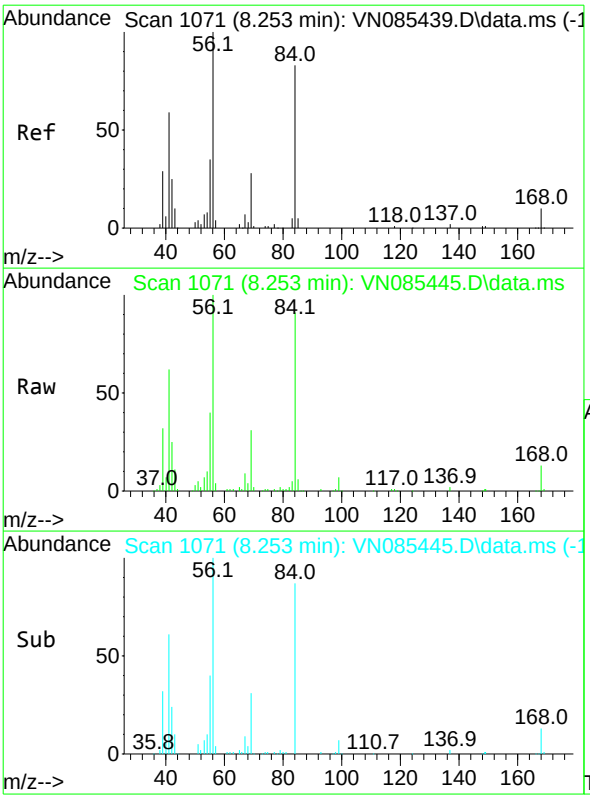




#30
Chloroform
Concen: 44.071 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 83 Resp: 235923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.5 | 51.8 | 77.6 |






#31
Cyclohexane
Concen: 42.878 ug/l
RT: 8.253 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

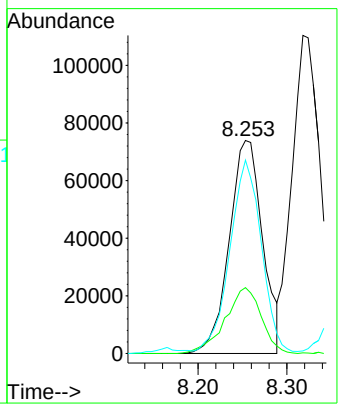
Tgt Ion: 56 Resp: 193034

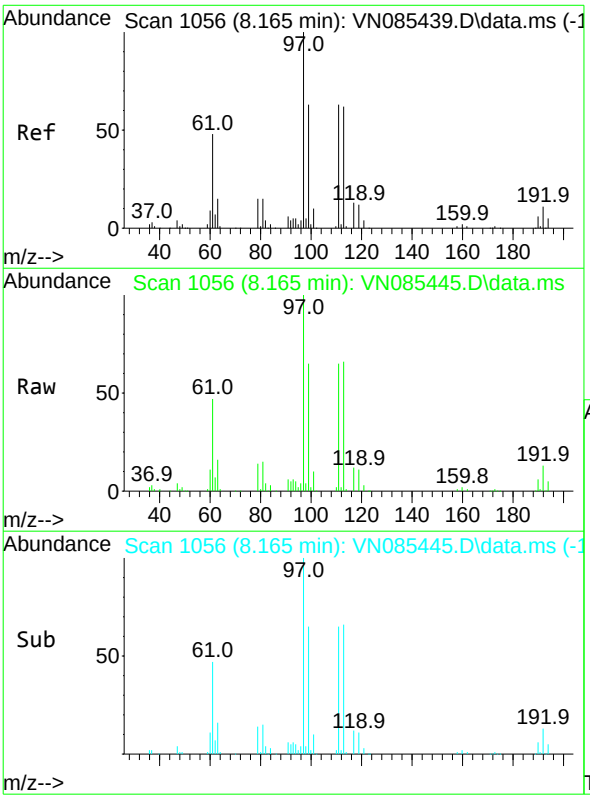
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 30.5 | 22.2 | 33.4 |
| 84 | 89.4 | 66.4 | 99.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

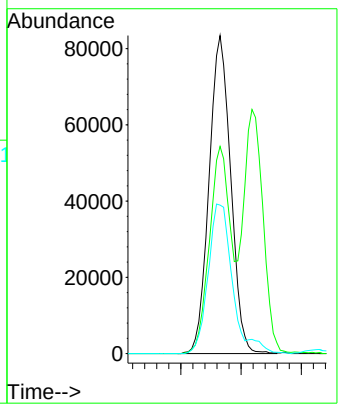


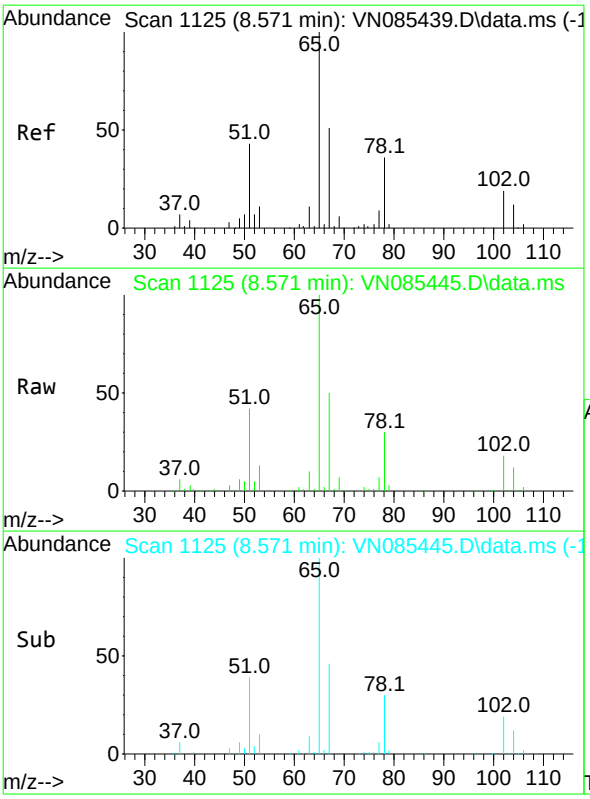




#32
1,1,1-Trichloroethane
Concen: 44.332 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 97 Resp: 208172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 61.8 | 49.8 | 74.6 |
| 61 | 52.8 | 41.4 | 62.2 |






#33
1,2-Dichloroethane-d4
Concen: 49.782 ug/l
RT: 8.571 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

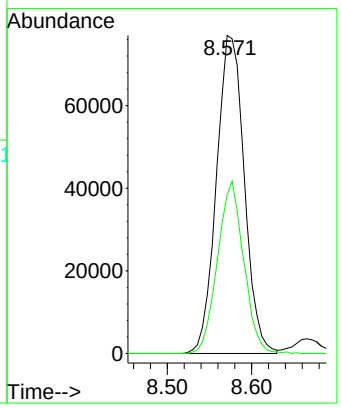
Tgt Ion: 65 Resp: 176594

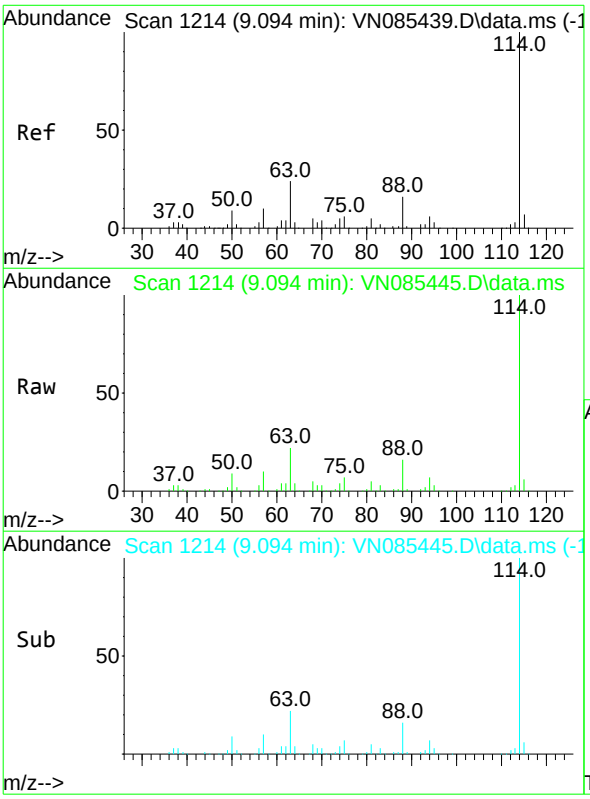
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.9 | 0.0 | 101.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

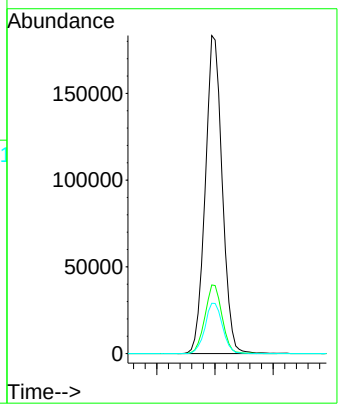


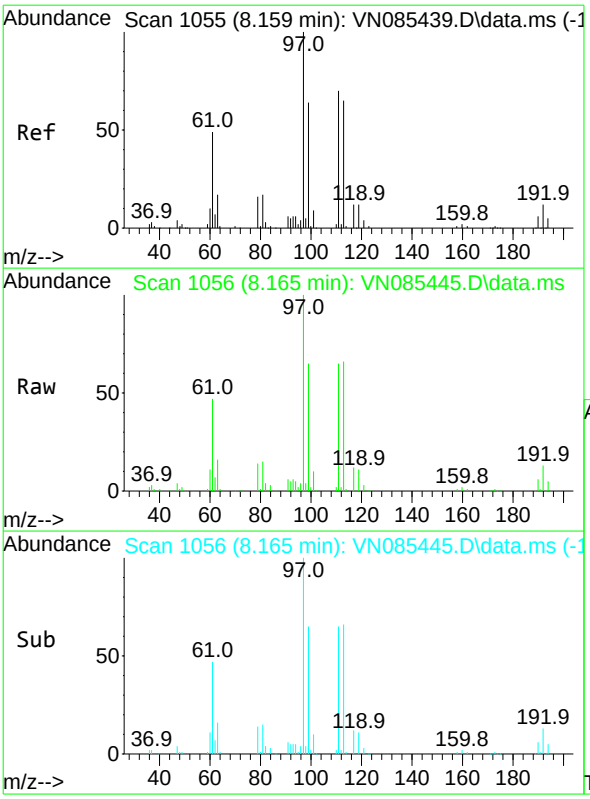




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:114 Resp: 370487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.6 | 0.0 | 47.6 |
| 88 | 15.8 | 0.0 | 32.6 |






#35
Dibromofluoromethane
Concen: 50.768 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

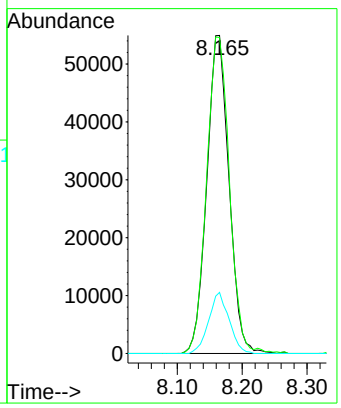
Tgt Ion:113 Resp: 130487

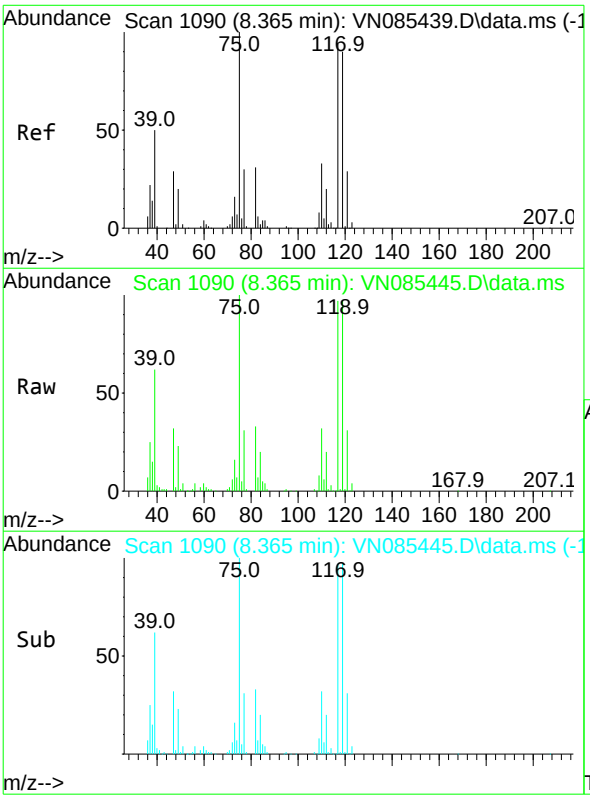
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.5 | 82.7 | 124.1 |
| 192 | 17.7 | 14.3 | 21.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

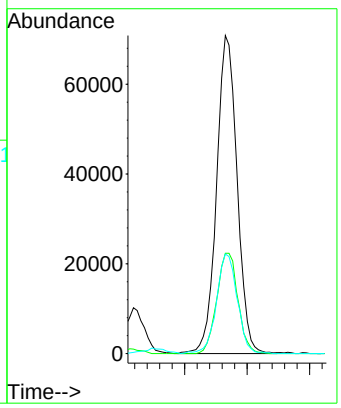


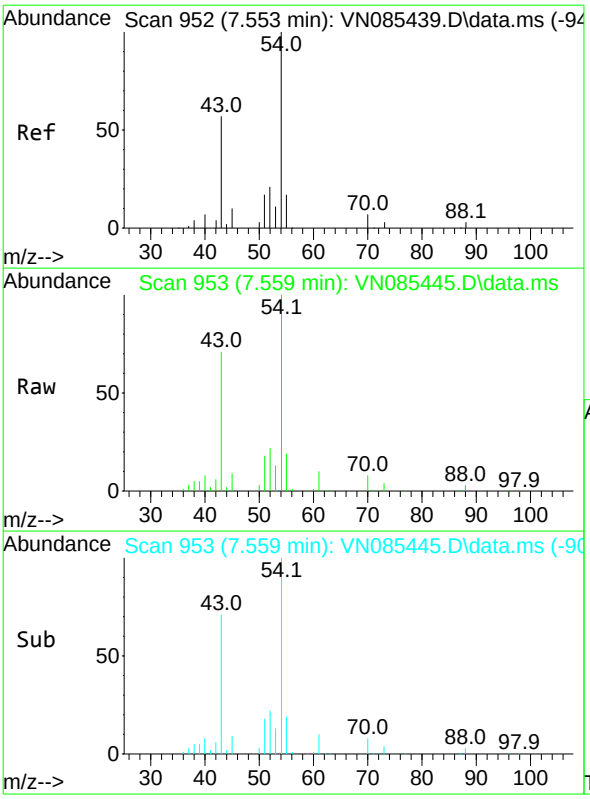




#36
1,1-Dichloropropene
Concen: 44.863 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 161834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 32.4 | 16.5 | 49.5 |
| 77 | 31.8 | 24.4 | 36.6 |






#37
Ethyl Acetate
Concen: 44.123 ug/l
RT: 7.559 min Scan# 95
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

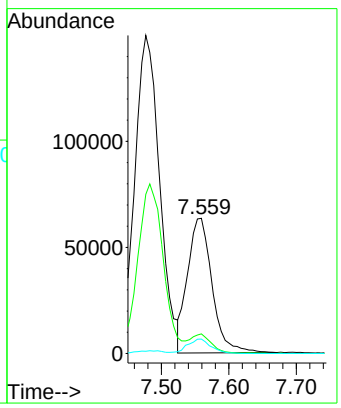
**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

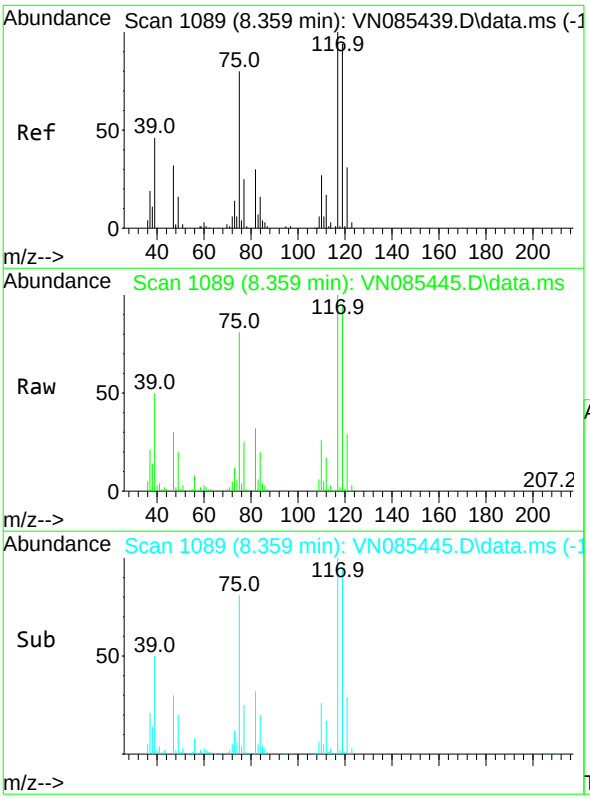
Tgt Ion: 43 Resp: 160656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 11.9 | 10.9 | 16.3 |
| 70 | 10.2 | 7.5 | 11.3 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

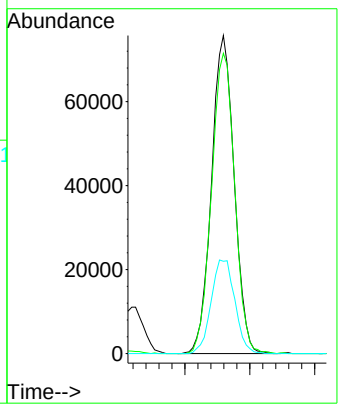


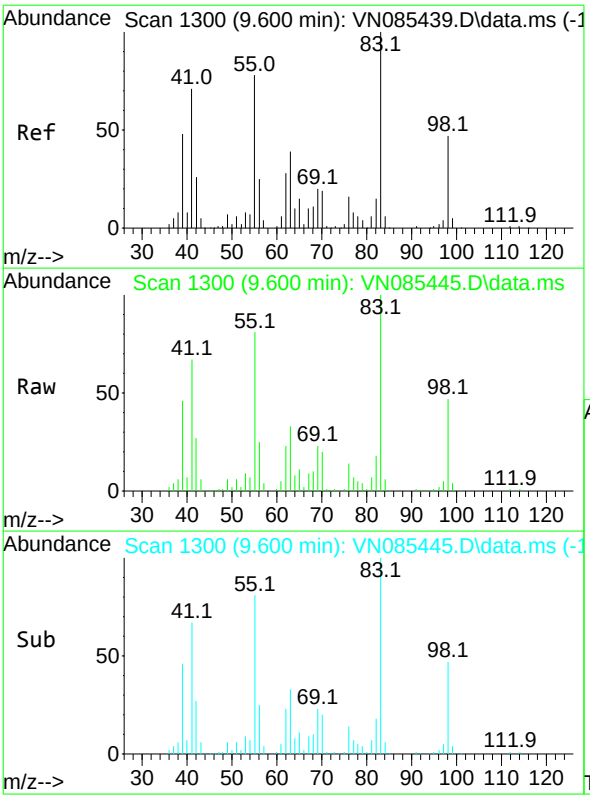




#38
Carbon Tetrachloride
Concen: 44.456 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:117 Resp: 183592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.4 | 75.4 | 113.2 |
| 121 | 29.0 | 24.6 | 37.0 |






#39
Methylcyclohexane
Concen: 49.687 ug/l
RT: 9.600 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

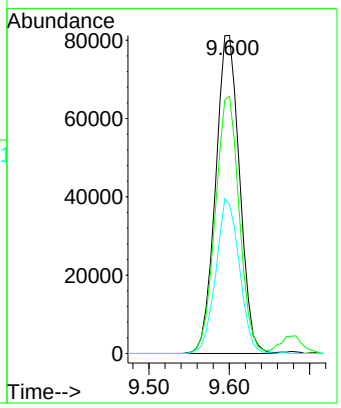
Tgt Ion: 83 Resp: 168431

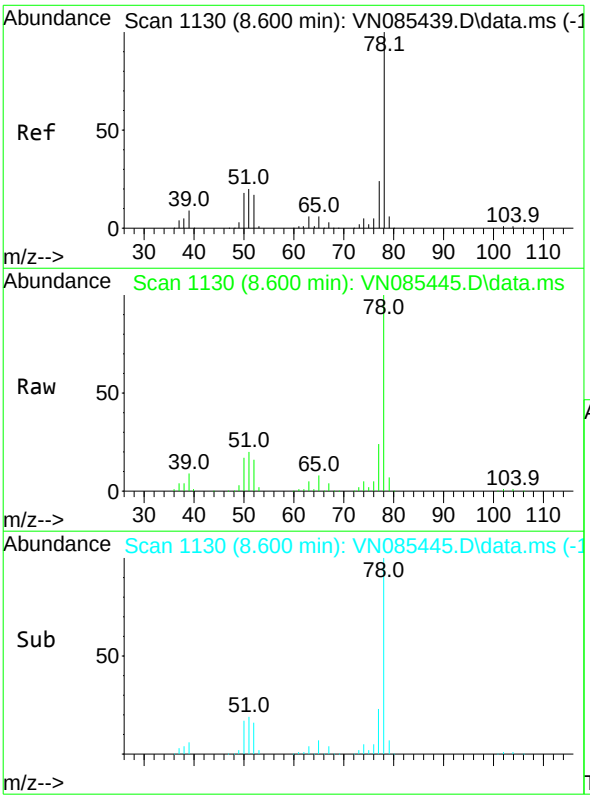
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 80.9 | 62.6 | 94.0 |
| 98 | 46.9 | 37.7 | 56.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

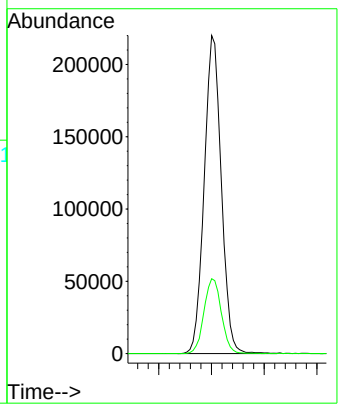


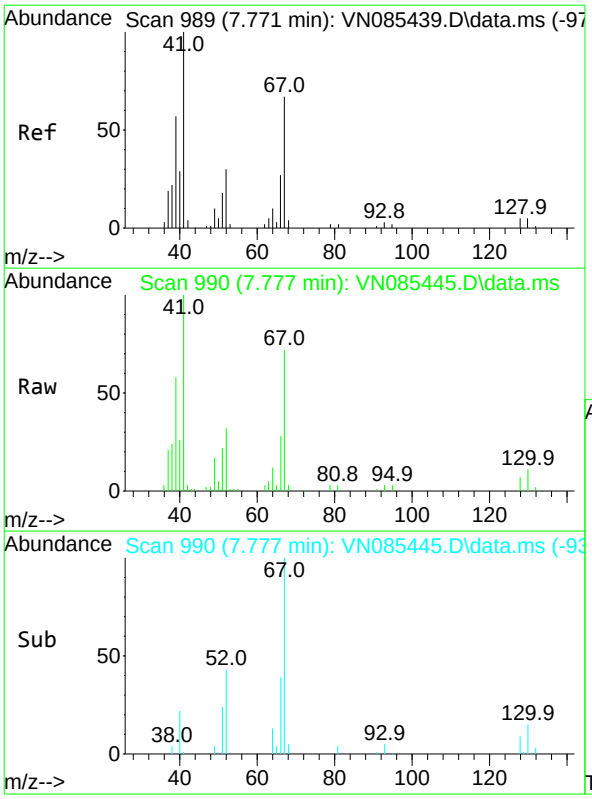




#40
Benzene
Concen: 45.657 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 78 Resp: 494871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 47.155 ug/l
RT: 7.777 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 41 Resp: 89326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 56.6 | 46.0 | 69.0 |
| 67 | 70.9 | 57.4 | 86.2 |
| 52 | 32.6 | 25.5 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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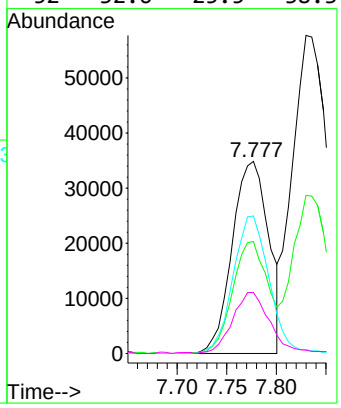
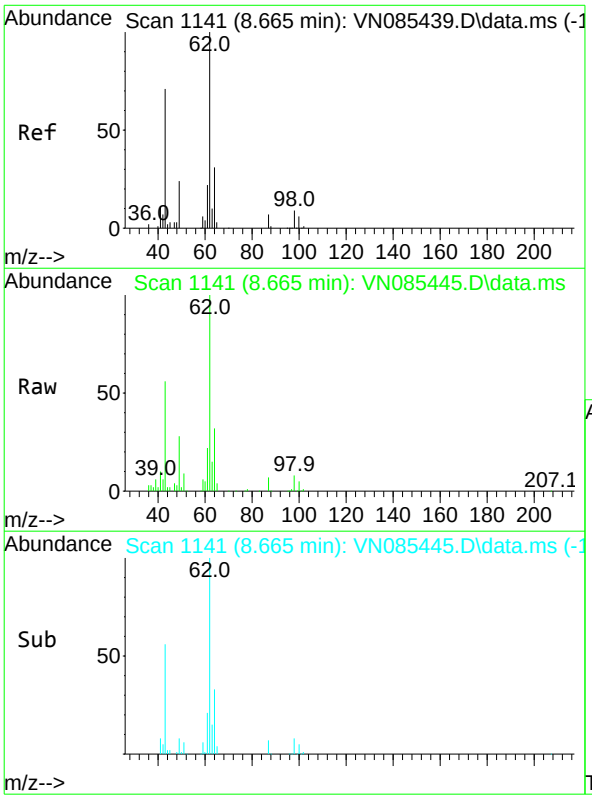
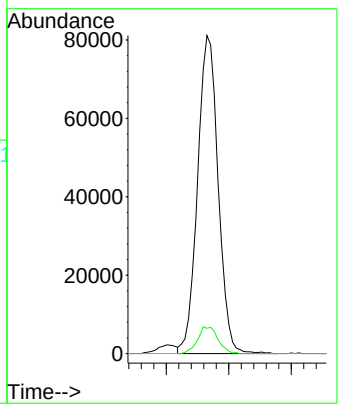


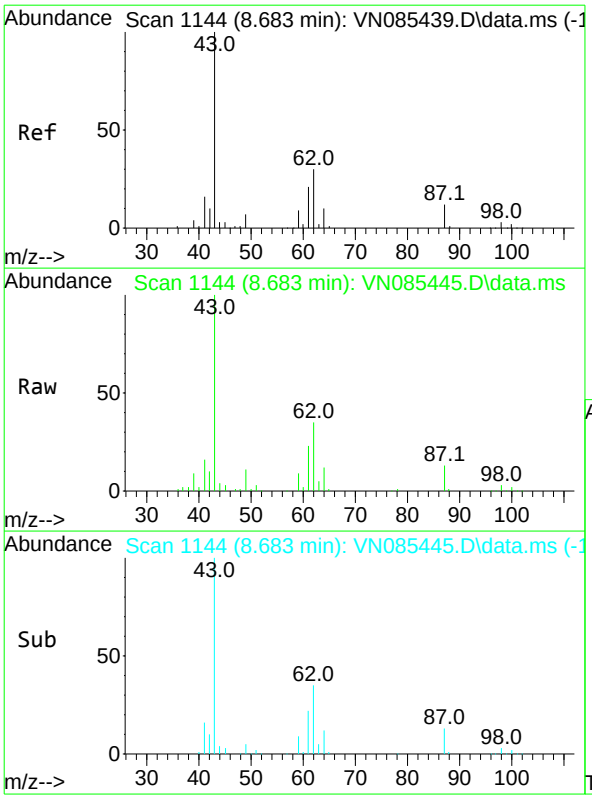




#42
1,2-Dichloroethane
Concen: 45.481 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 62 Resp: 185663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.3 | 0.0 | 17.0 |






#43
Isopropyl Acetate
Concen: 45.440 ug/l
RT: 8.683 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

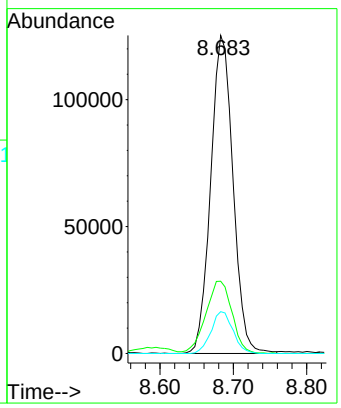
Tgt Ion: 43 Resp: 265107

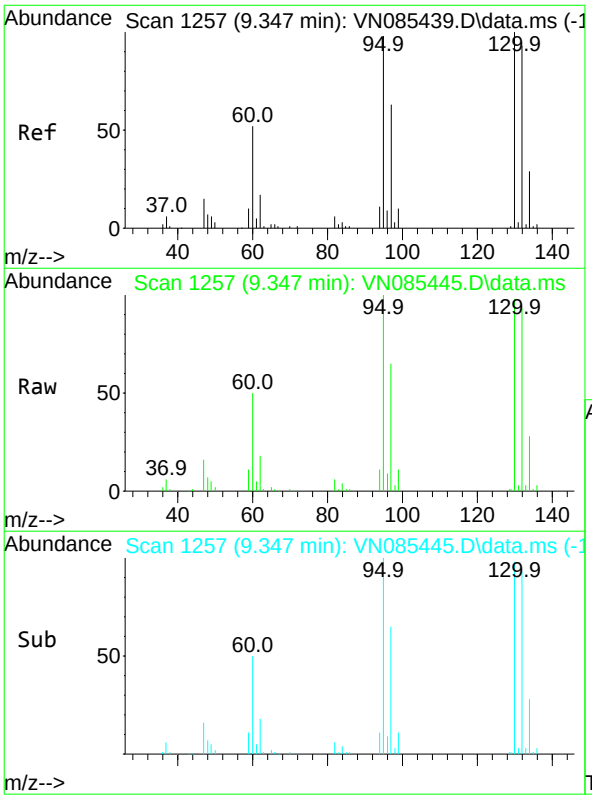
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 26.7 | 20.7 | 31.1 |
| 87 | 12.9 | 9.8 | 14.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

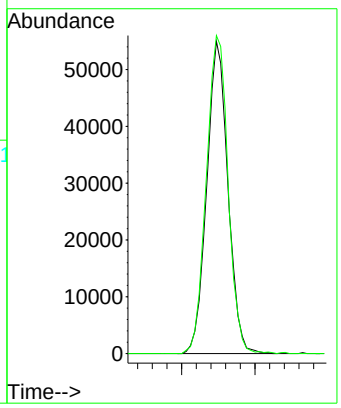


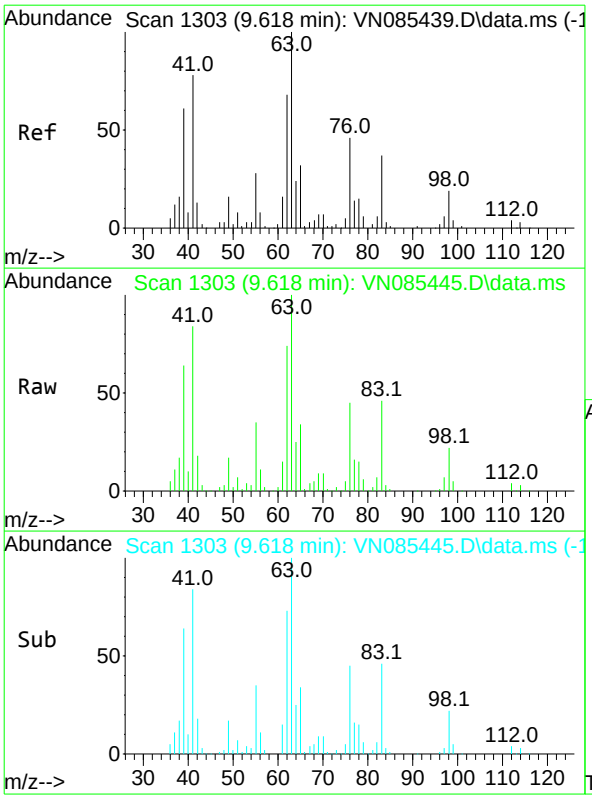




#44
Trichloroethene
Concen: 43.622 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:130 Resp: 110058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.9 | 0.0 | 195.8 |






#45
1,2-Dichloropropane
Concen: 44.744 ug/l
RT: 9.618 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

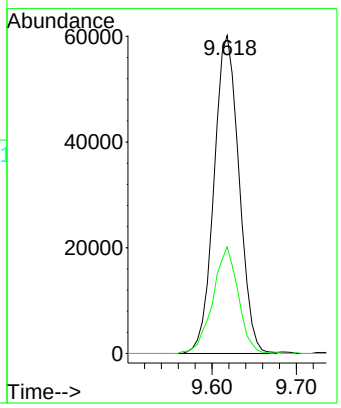
Tgt Ion: 63 Resp: 123876

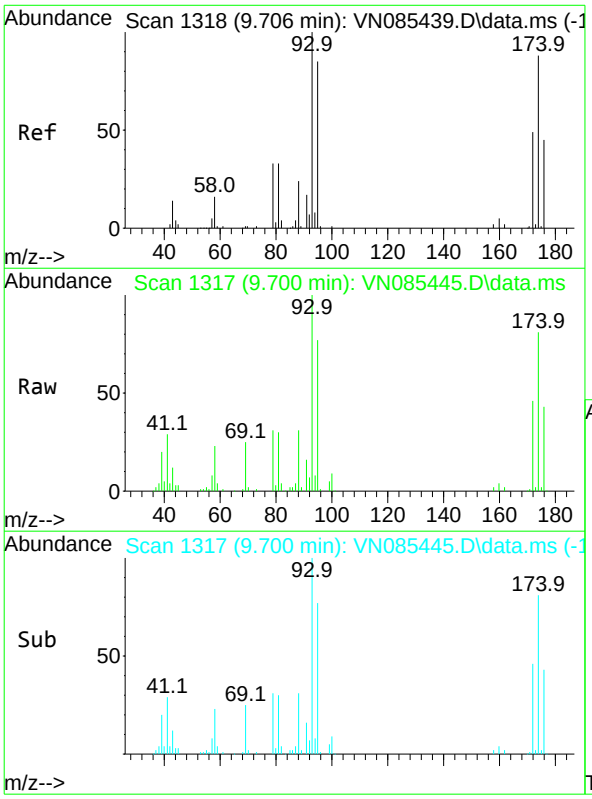
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 33.5 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

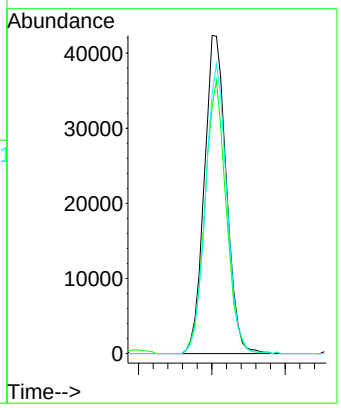


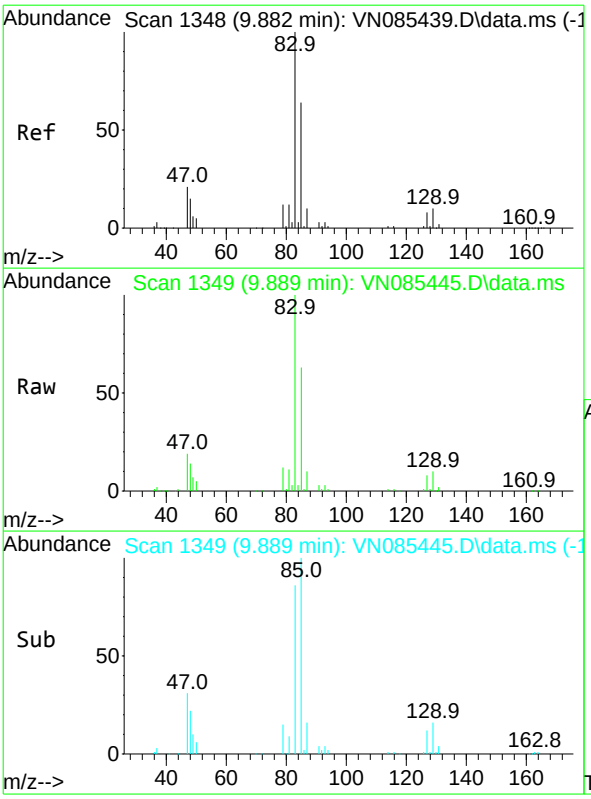




#46
Dibromomethane
Concen: 44.214 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. -0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 93 Resp: 88325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.9 | 64.7 | 97.1 |
| 174 | 88.0 | 69.0 | 103.4 |






#47
Bromodichloromethane
Concen: 45.655 ug/l
RT: 9.889 min Scan# 13
Delta R.T. 0.007 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

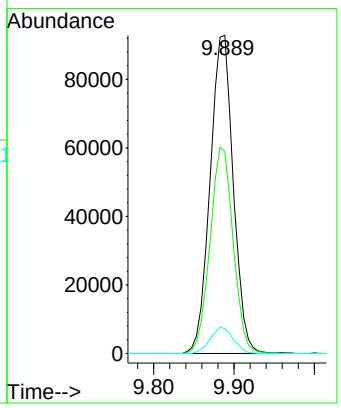
Tgt Ion: 83 Resp: 185808

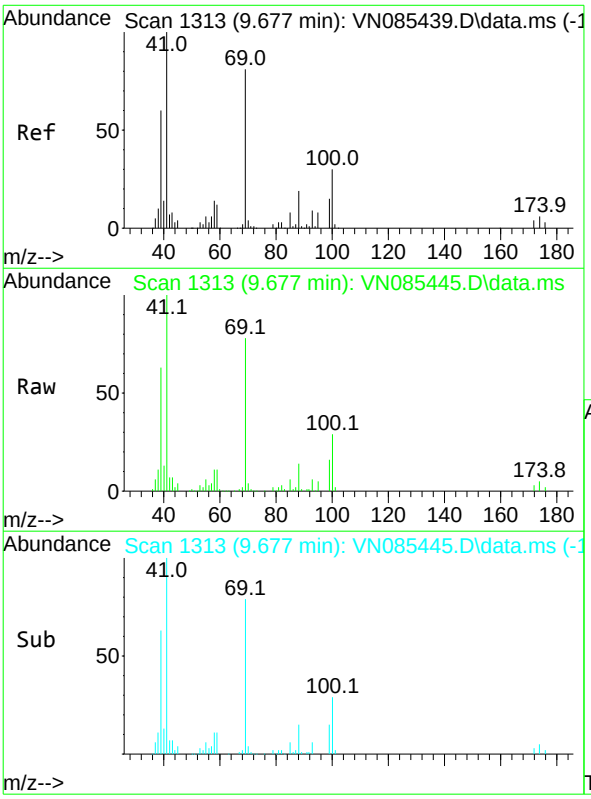
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.5 | 51.2 | 76.8 |
| 127 | 7.8 | 6.5 | 9.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

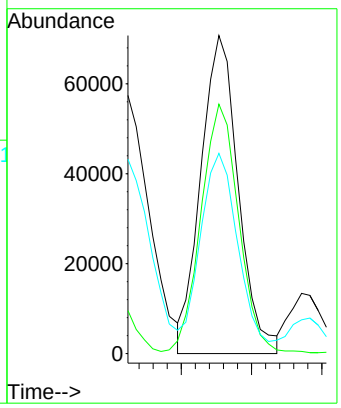


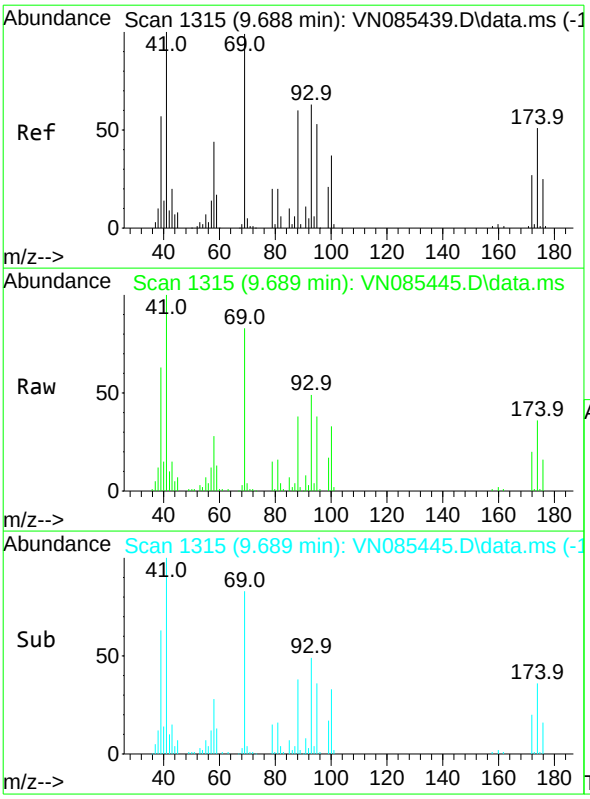




#48
Methyl methacrylate
Concen: 49.948 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 41 Resp: 131142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 78.6 | 64.7 | 97.1 |
| 39 | 63.3 | 49.0 | 73.6 |






#49
1,4-Dioxane
Concen: 792.760 ug/l
RT: 9.689 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

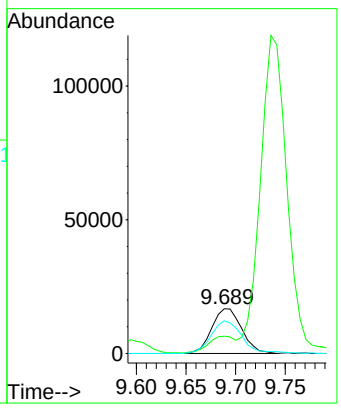
Tgt Ion: 88 Resp: 35051

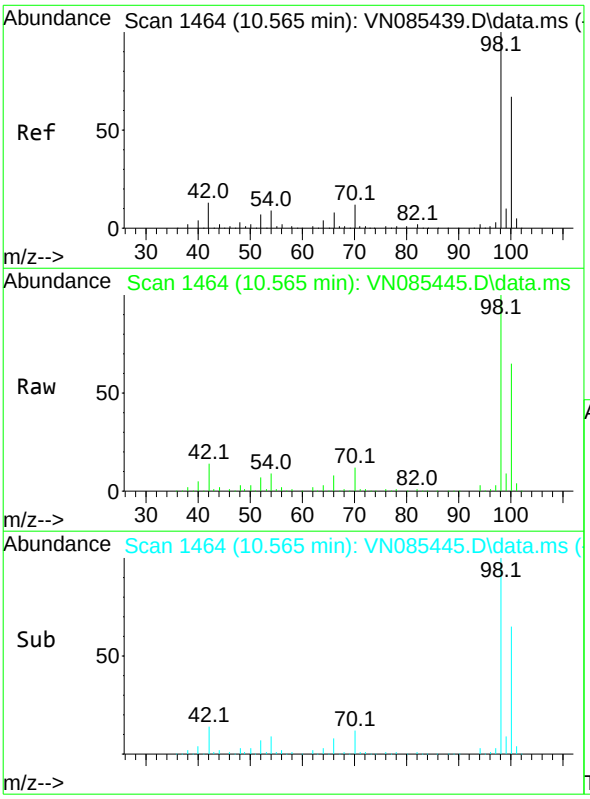
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.8 | 26.6 | 39.8 |
| 58 | 76.1 | 59.5 | 89.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

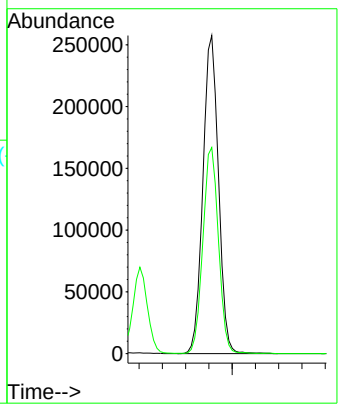


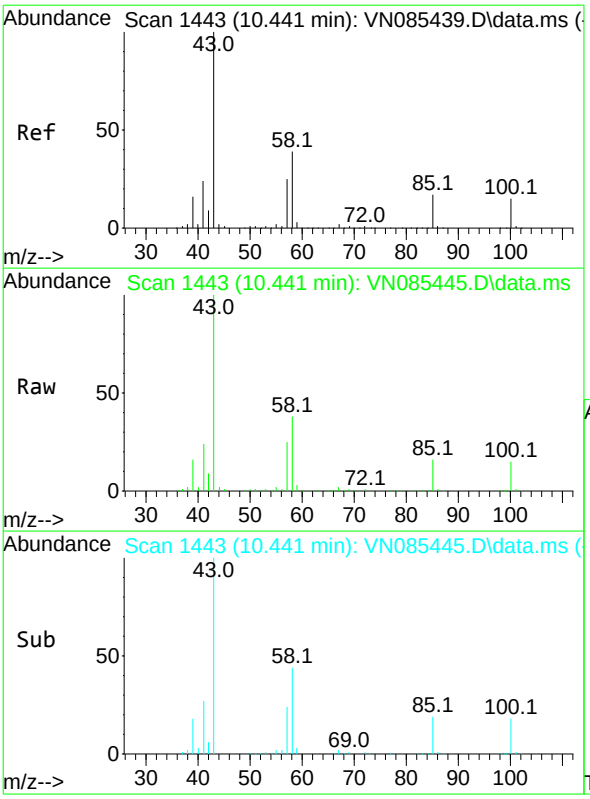




#50
Toluene-d8
Concen: 52.302 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 98 Resp: 477630

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






#51
4-Methyl-2-Pentanone
Concen: 245.877 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 832426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.8 | 30.5 | 45.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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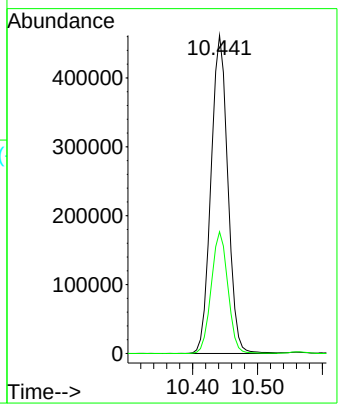
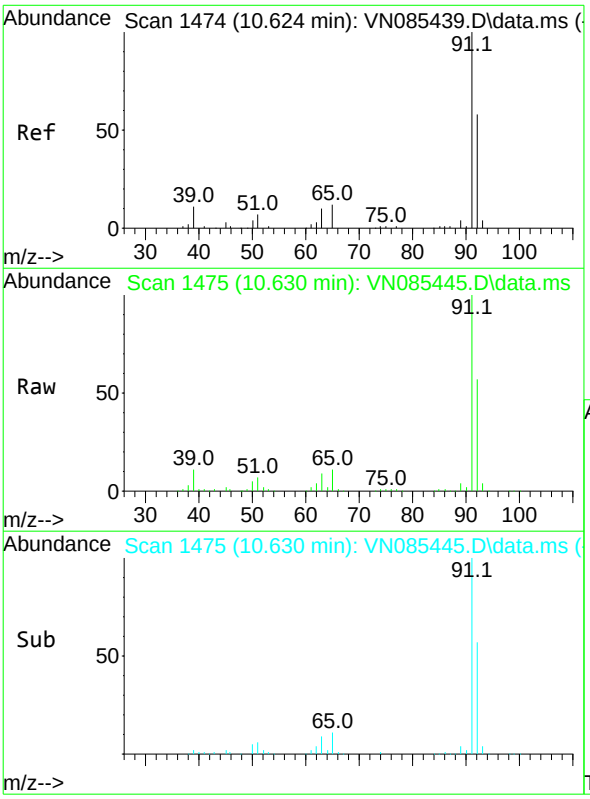
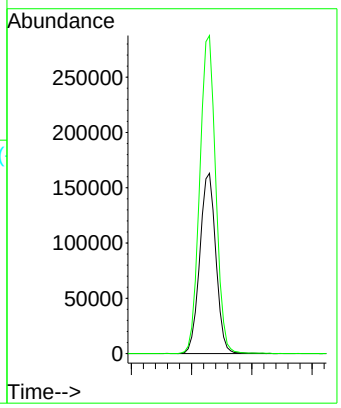


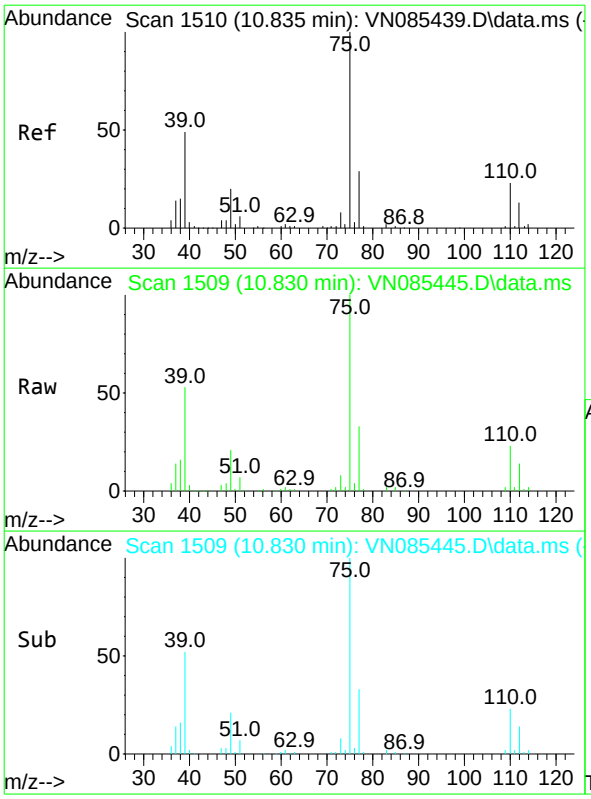




#52
Toluene
Concen: 48.073 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 92 Resp: 301911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 175.7 | 139.2 | 208.8 |






#53
t-1,3-Dichloropropene
Concen: 47.757 ug/l
RT: 10.830 min Scan# 15
Delta R.T. -0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

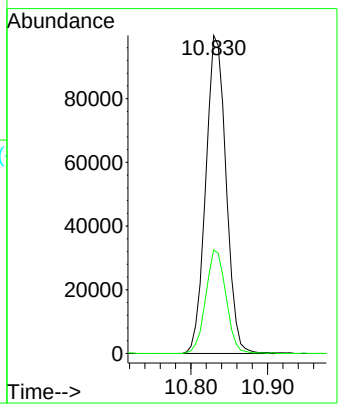
Tgt Ion: 75 Resp: 183680

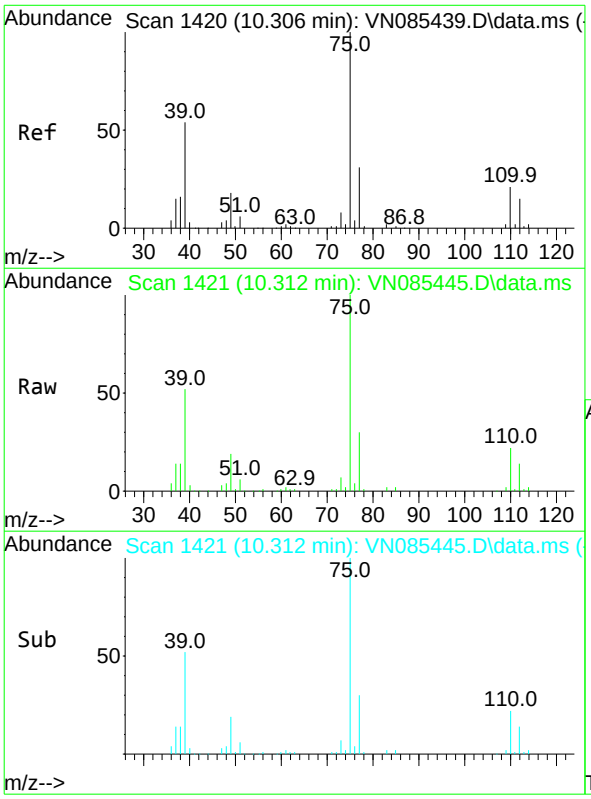
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.6 | 23.5 | 35.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

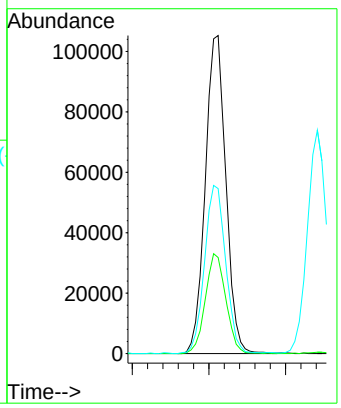


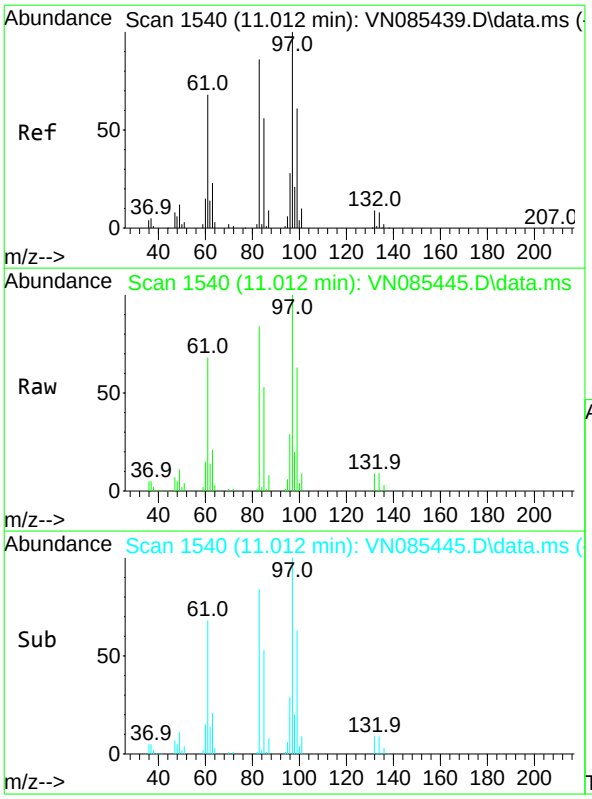




#54
cis-1,3-Dichloropropene
Concen: 47.783 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 196307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.2 | 25.0 | 37.4 |
| 39 | 51.9 | 43.1 | 64.7 |






#55
1,1,2-Trichloroethane
Concen: 46.173 ug/l
RT: 11.012 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 97 Resp: 114757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 83.7 | 69.0 | 103.6 |
| 85 | 53.2 | 44.6 | 66.8 |
| 99 | 62.8 | 48.6 | 72.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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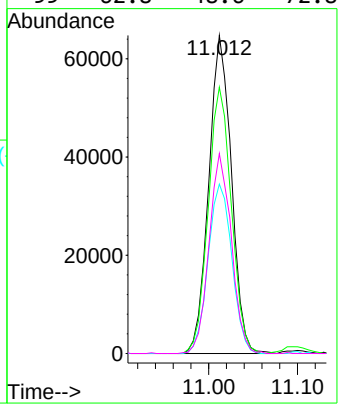
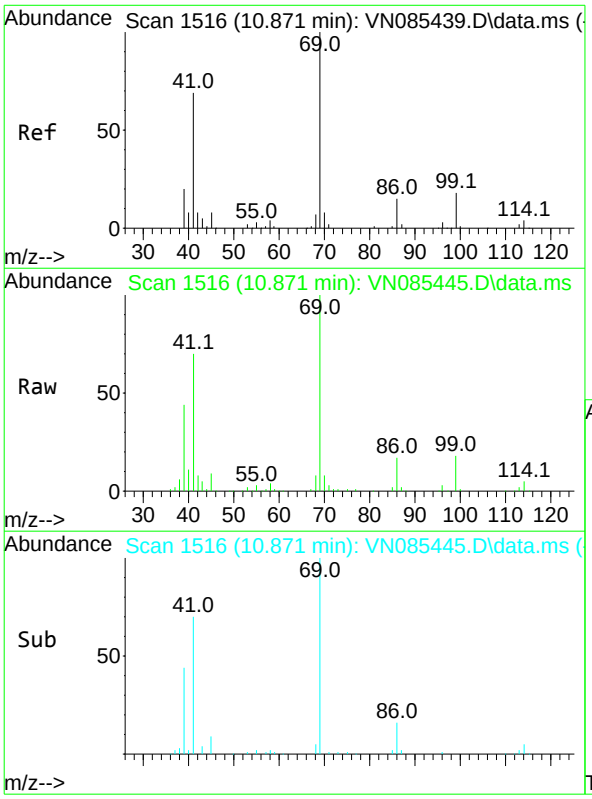
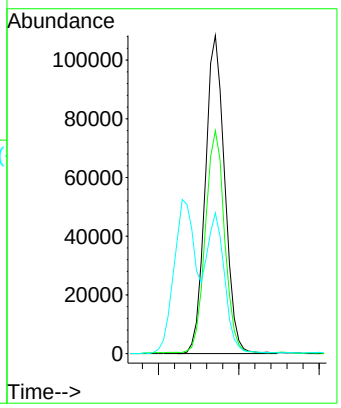


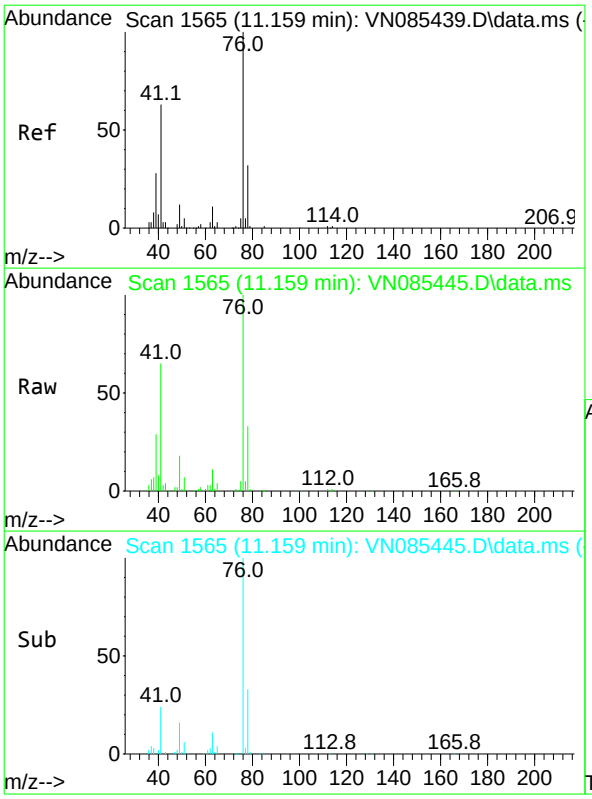




#56
Ethyl methacrylate
Concen: 43.762 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 69 Resp: 182170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 70.4 | 54.6 | 82.0 |
| 39 | 40.2 | 32.4 | 48.6 |






#57
1,3-Dichloropropane
Concen: 46.877 ug/l
RT: 11.159 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 76 Resp: 202583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.1 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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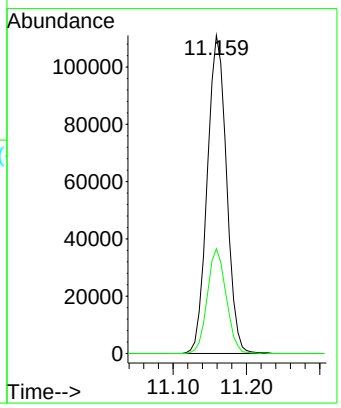
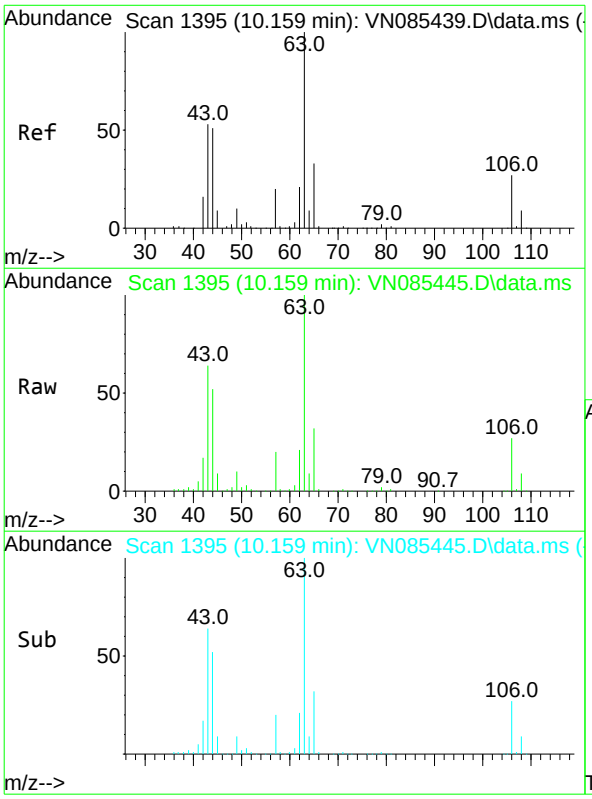
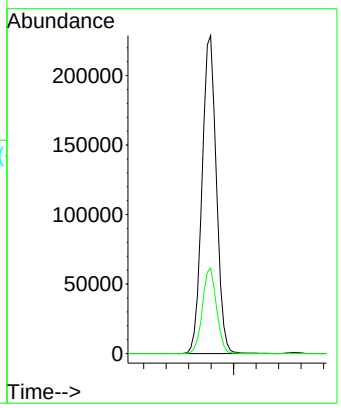


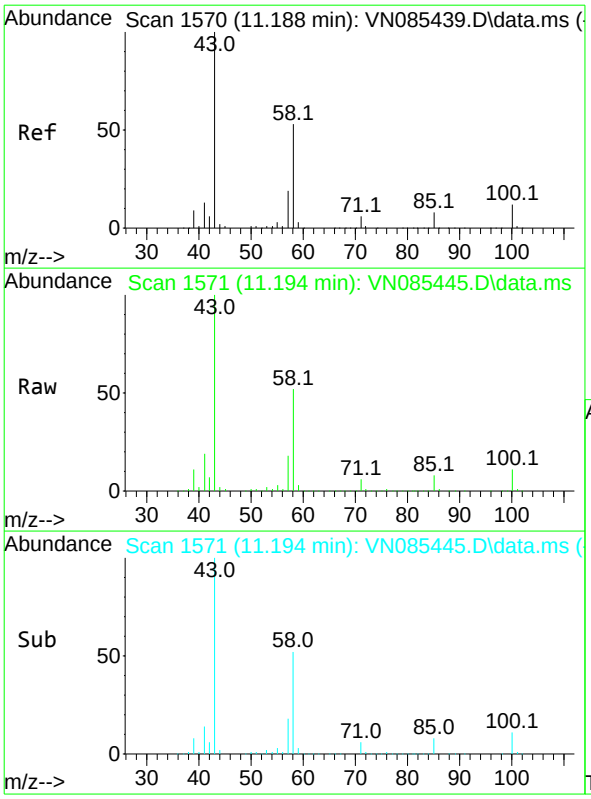




#58
2-Chloroethyl Vinyl ether
Concen: 256.116 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 63 Resp: 403949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.4 | 21.6 | 32.4 |






#59
2-Hexanone
Concen: 251.213 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 598433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 52.1 | 26.2 | 78.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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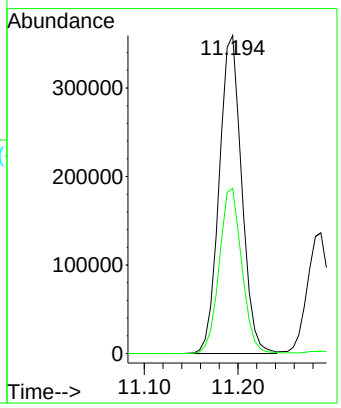
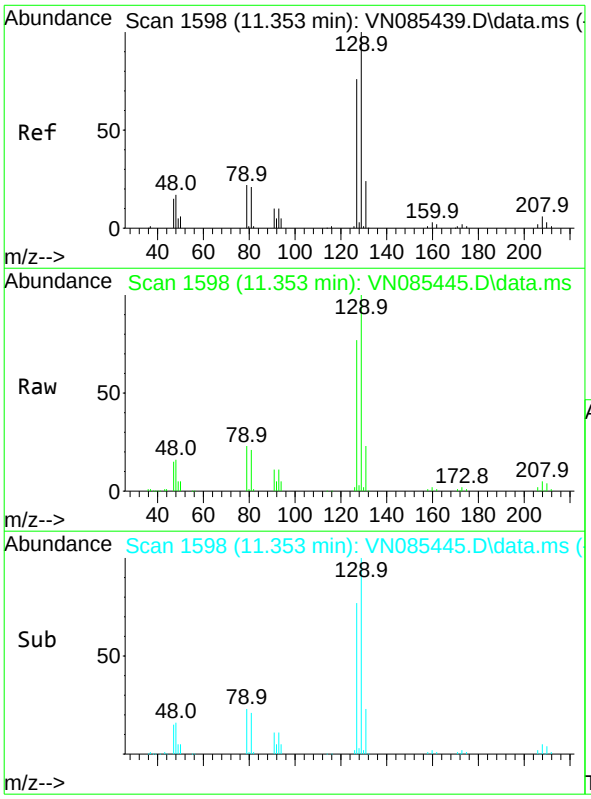
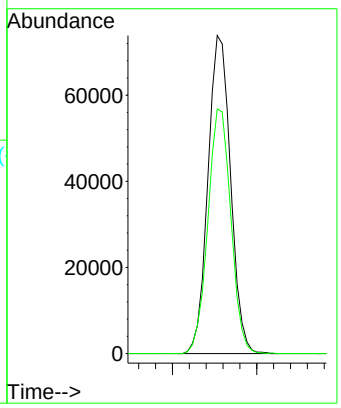


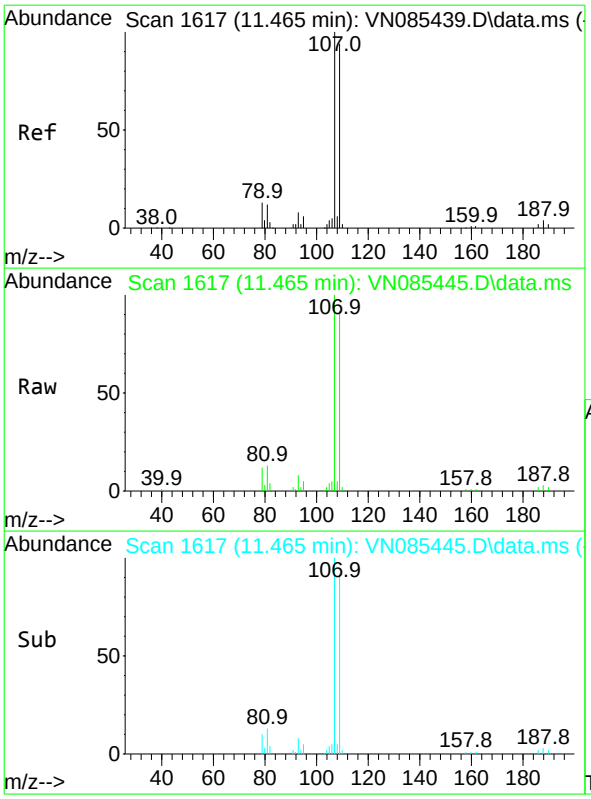




#60
Dibromochloromethane
Concen: 45.935 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:129 Resp: 137831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.1 | 38.6 | 115.8 |






#61
1,2-Dibromoethane
Concen: 44.837 ug/l
RT: 11.465 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

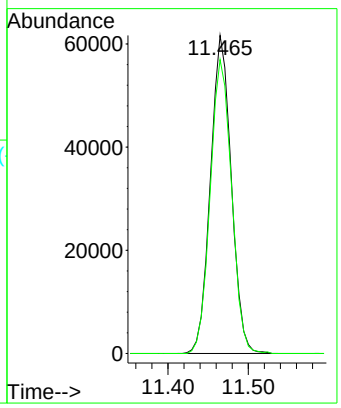
Tgt Ion:107 Resp: 110926

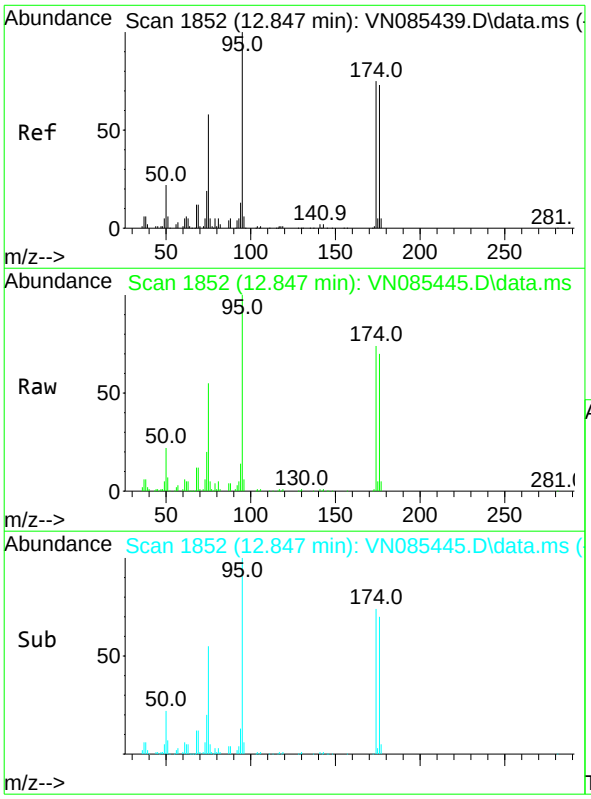
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.7 | 75.9 | 113.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

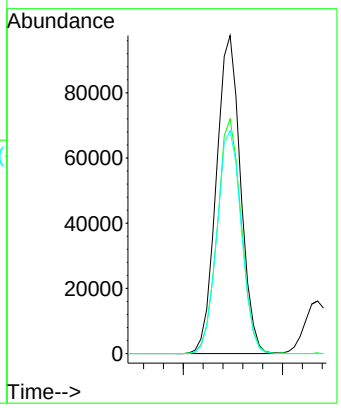


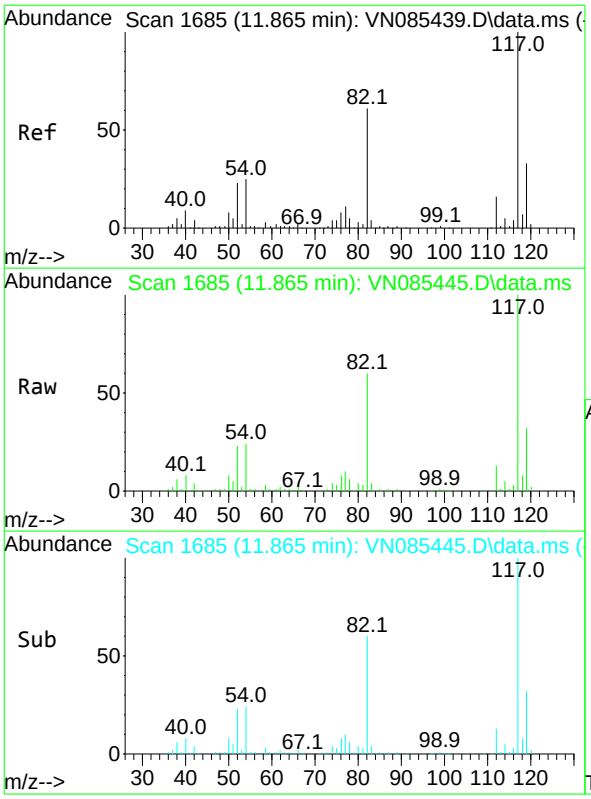




#62
4-Bromofluorobenzene
Concen: 52.899 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 95 Resp: 165249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 73.1 | 0.0 | 145.0 |
| 176 | 70.8 | 0.0 | 142.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

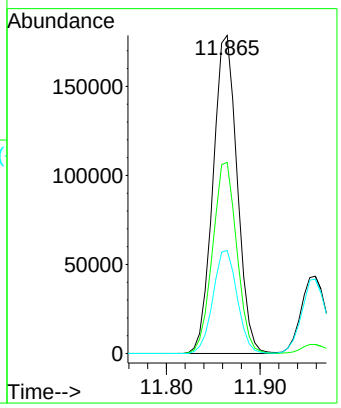
Tgt Ion:117 Resp: 320948

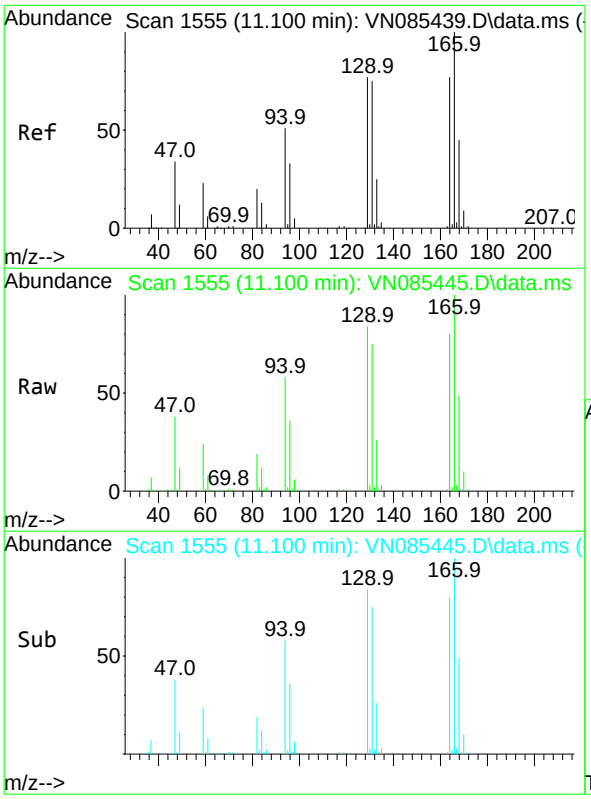
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 60.1 | 48.6 | 72.8 |
| 119 | 32.4 | 26.6 | 39.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

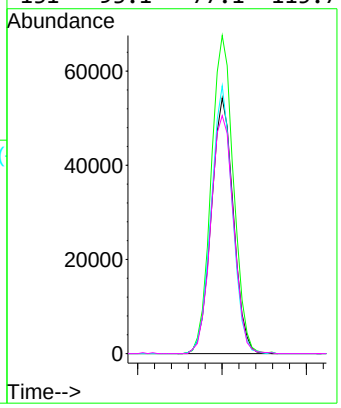


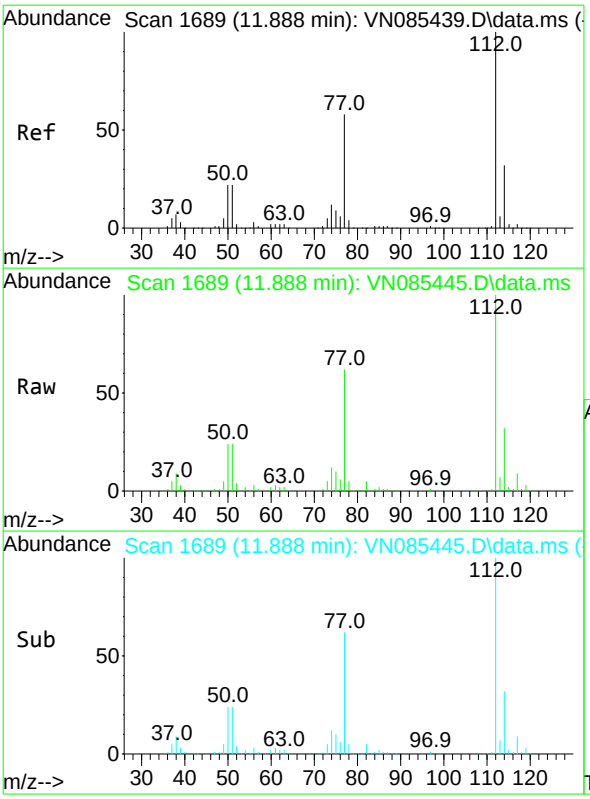




#64
Tetrachloroethene
Concen: 44.886 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:164 Resp: 98211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.4 | 103.4 | 155.2 |
| 129 | 104.8 | 79.2 | 118.8 |
| 131 | 93.1 | 77.1 | 115.7 |






#65
Chlorobenzene
Concen: 45.901 ug/l
RT: 11.888 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

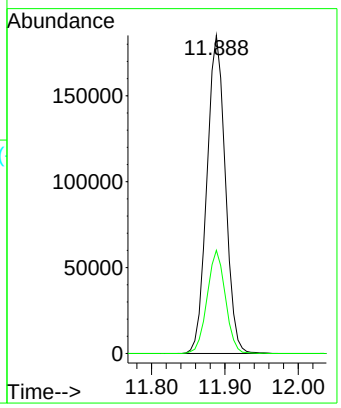
Tgt Ion:112 Resp: 322723

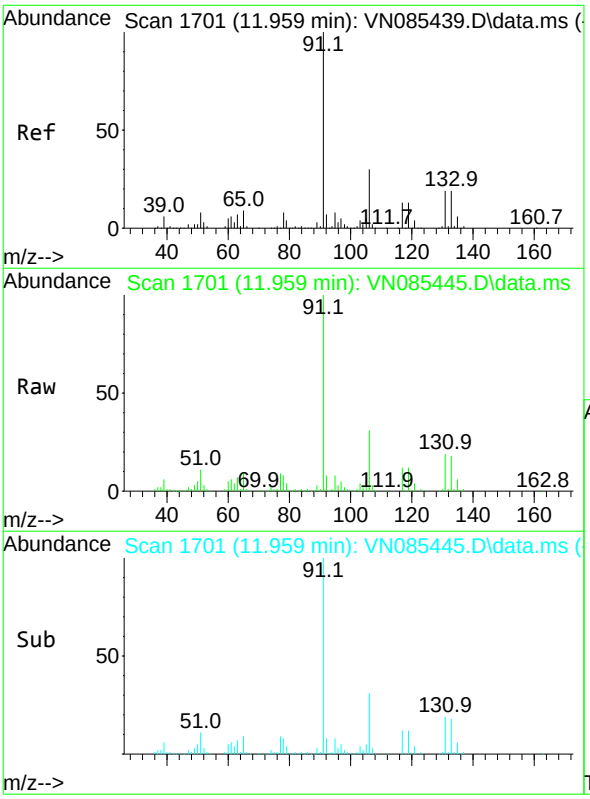
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.4 | 25.3 | 37.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

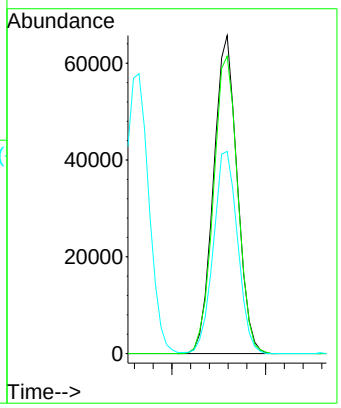


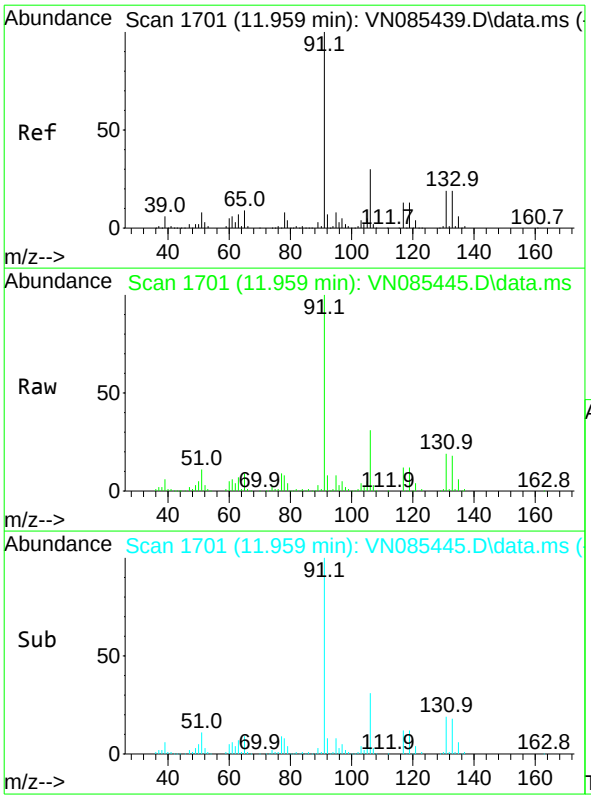




#66
1,1,1,2-Tetrachloroethane
Concen: 44.712 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:131 Resp: 115379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.8 | 47.4 | 142.3 |
| 119 | 65.2 | 33.1 | 99.5 |






#67
Ethyl Benzene
Concen: 50.391 ug/l
RT: 11.959 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 91 Resp: 577059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 23.8 | 35.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
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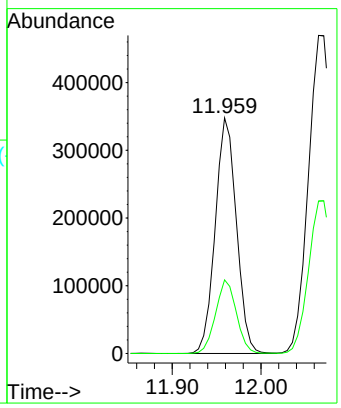
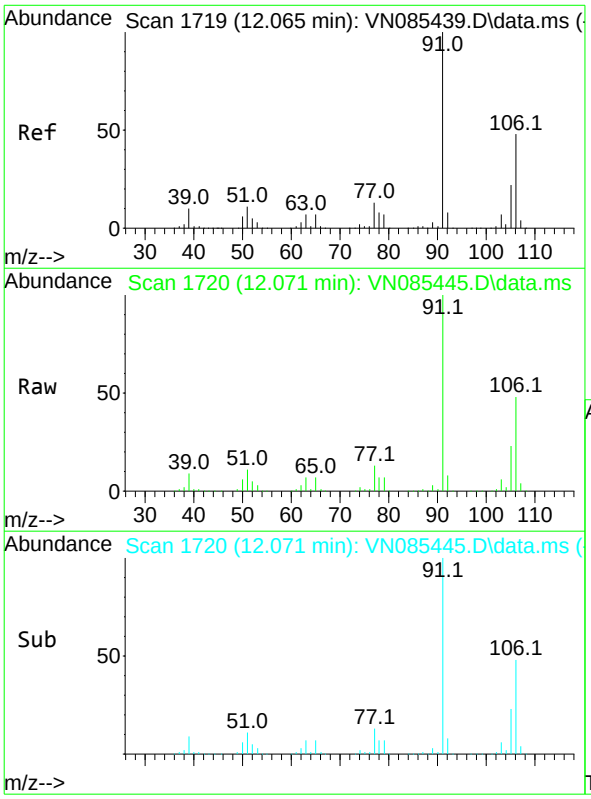
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

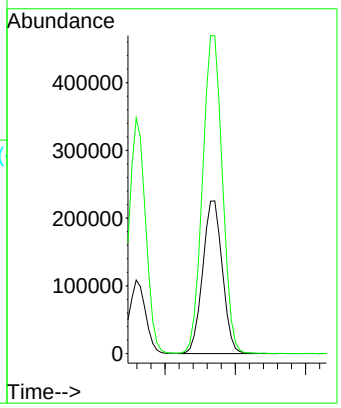


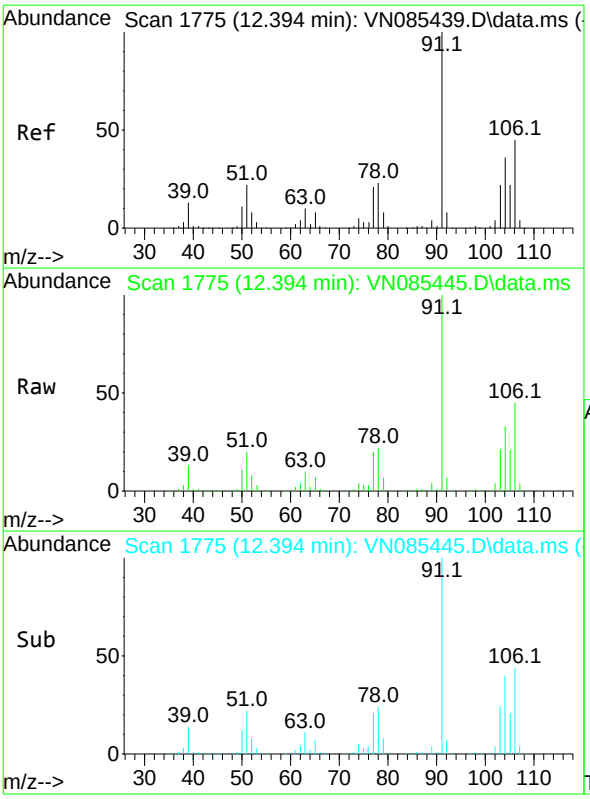




#68
m/p-Xylenes
Concen: 103.341 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:106 Resp: 437367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.1 | 167.7 | 251.5 |






#69
o-Xylene
Concen: 52.093 ug/l
RT: 12.394 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

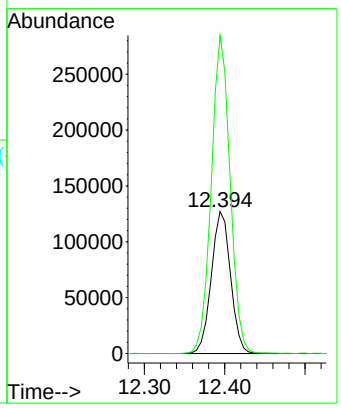
Tgt Ion:106 Resp: 210698

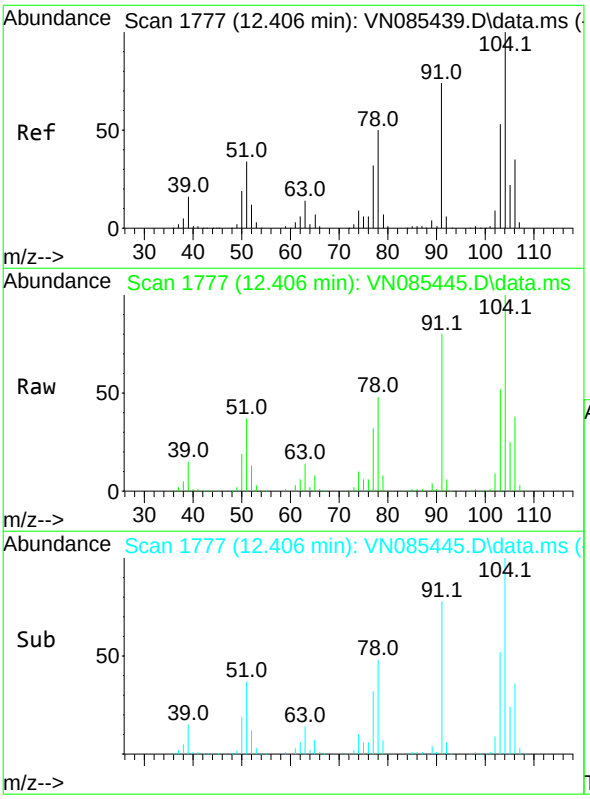
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.9 | 110.4 | 331.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

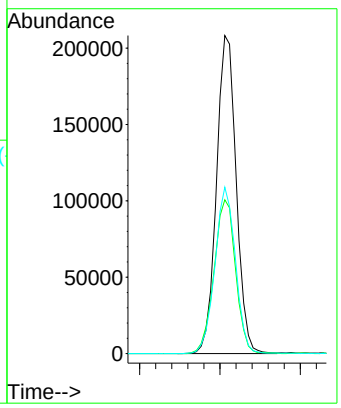


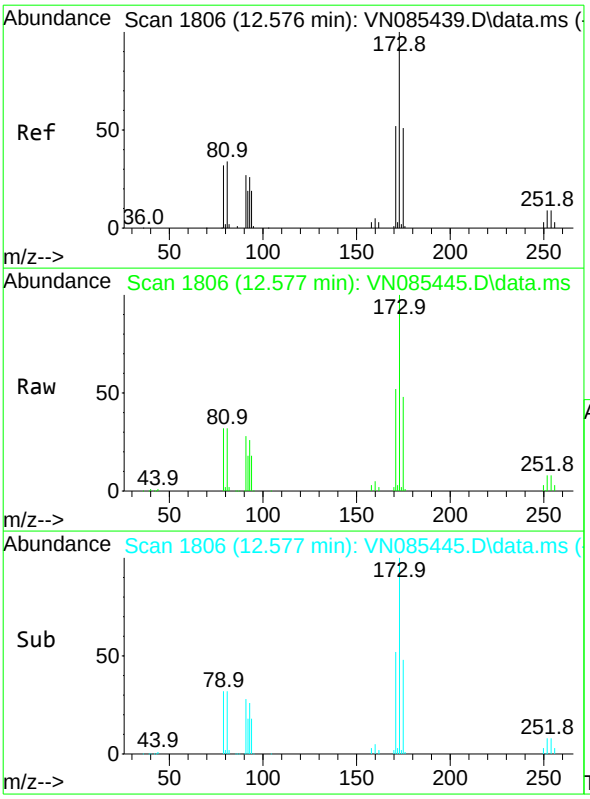




#70
Styrene
Concen: 53.103 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:104 Resp: 355459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.8 | 42.5 | 63.7 |
| 103 | 54.5 | 43.8 | 65.8 |






#71
Bromoform
Concen: 49.119 ug/l
RT: 12.577 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

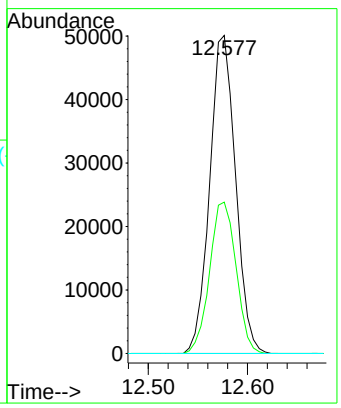
Tgt Ion:173 Resp: 90693

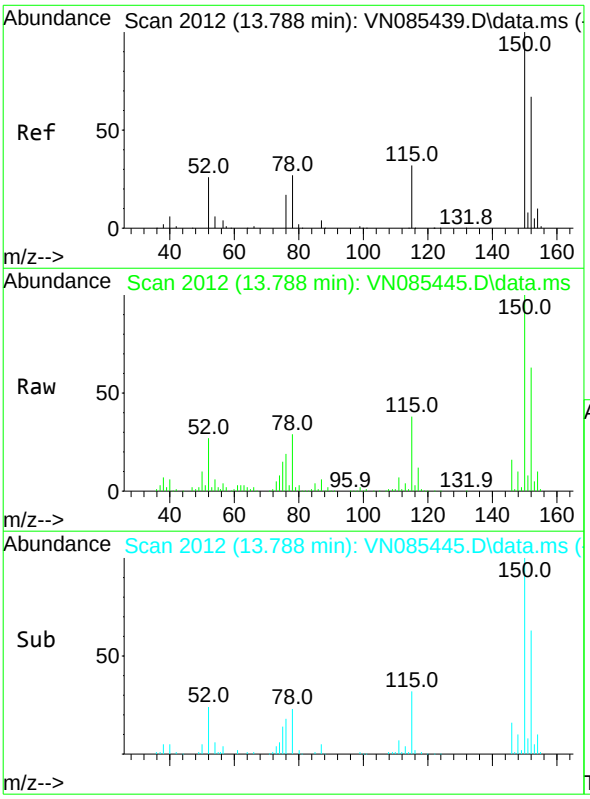
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.7 | 24.4 | 73.2 |
| 254 | 0.0 | 0.0 | 0.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

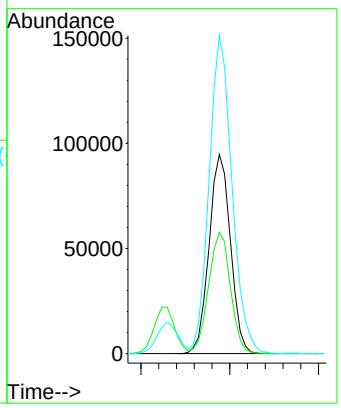


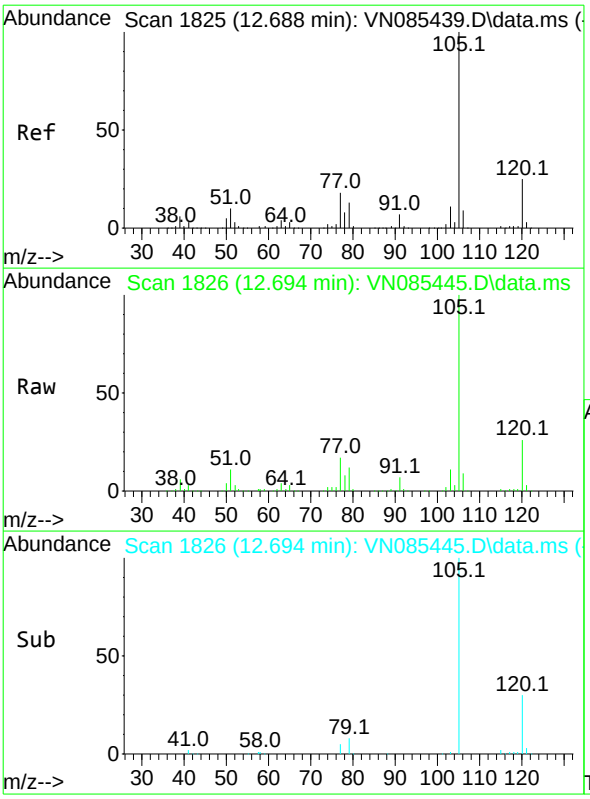




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:152 Resp: 158525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.2 | 31.1 | 93.3 |
| 150 | 171.0 | 0.0 | 343.6 |






#73
Isopropylbenzene
Concen: 49.951 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

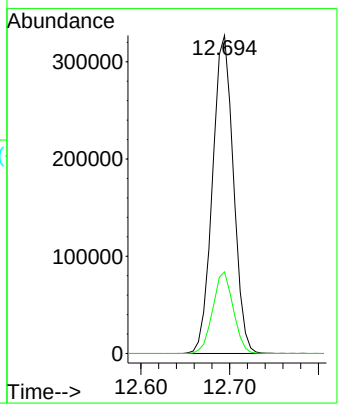
Tgt Ion:105 Resp: 534428

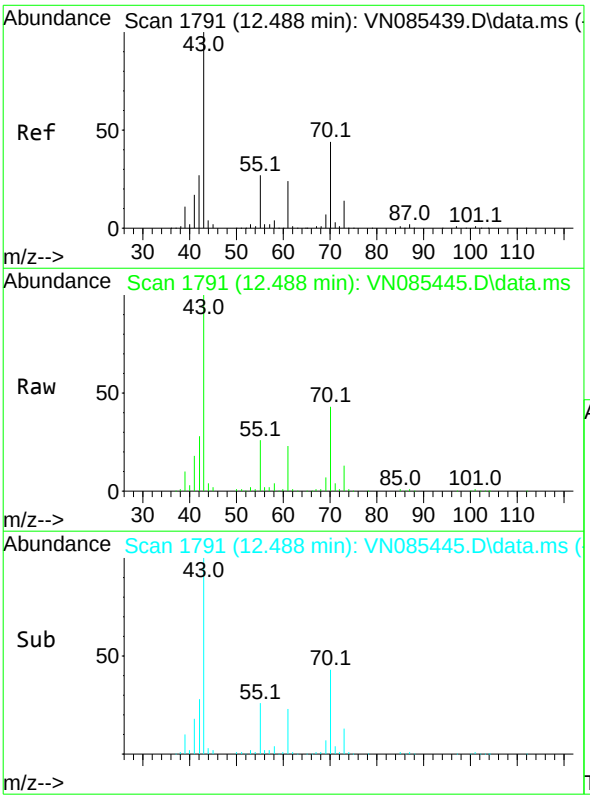
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.2 | 12.8 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

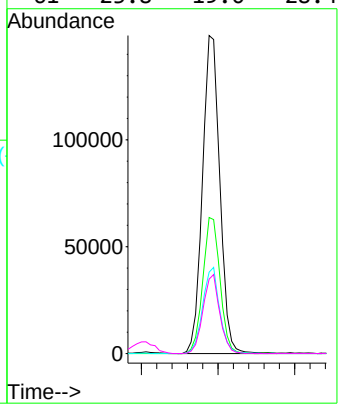


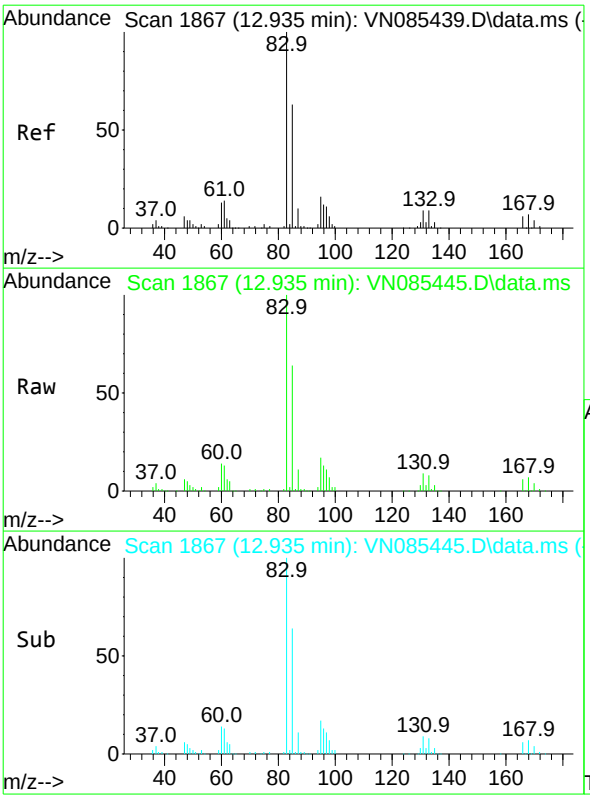




#74
N-amyl acetate
Concen: 48.730 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 234342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.2 | 34.0 | 51.0 |
| 55 | 26.5 | 21.4 | 32.2 |
| 61 | 23.8 | 19.0 | 28.4 |






#75
1,1,2,2-Tetrachloroethane
Concen: 43.627 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

Tgt Ion: 83 Resp: 164882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 4.8 | 14.4 |
| 85 | 64.6 | 32.2 | 96.6 |

**Manual Integrations**
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Reviewed By :John Carlone 01/15/2025
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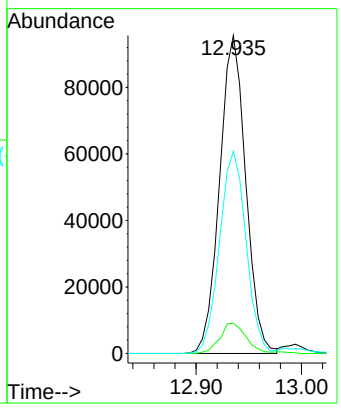
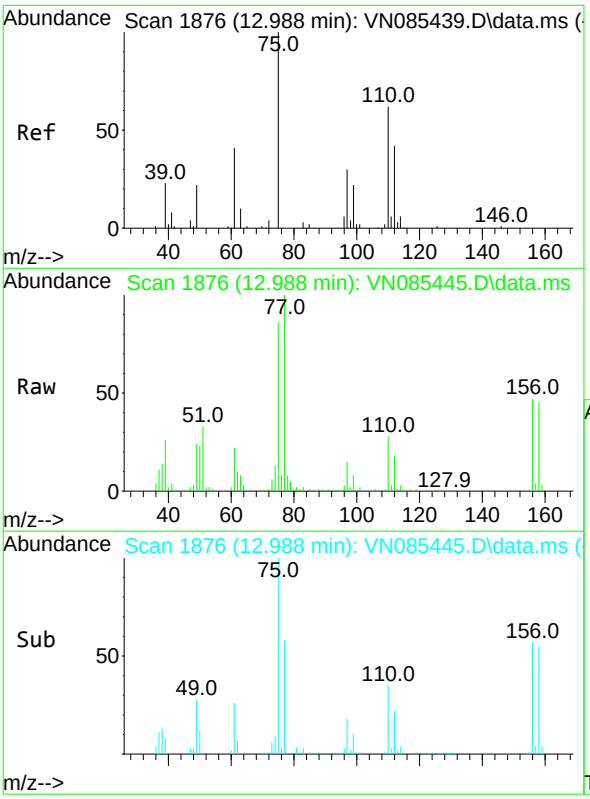
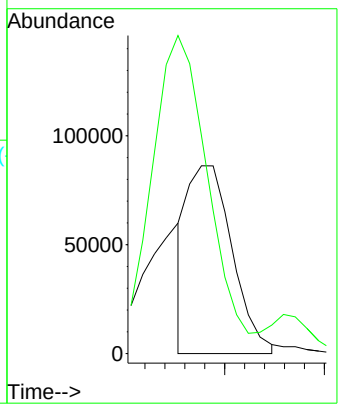


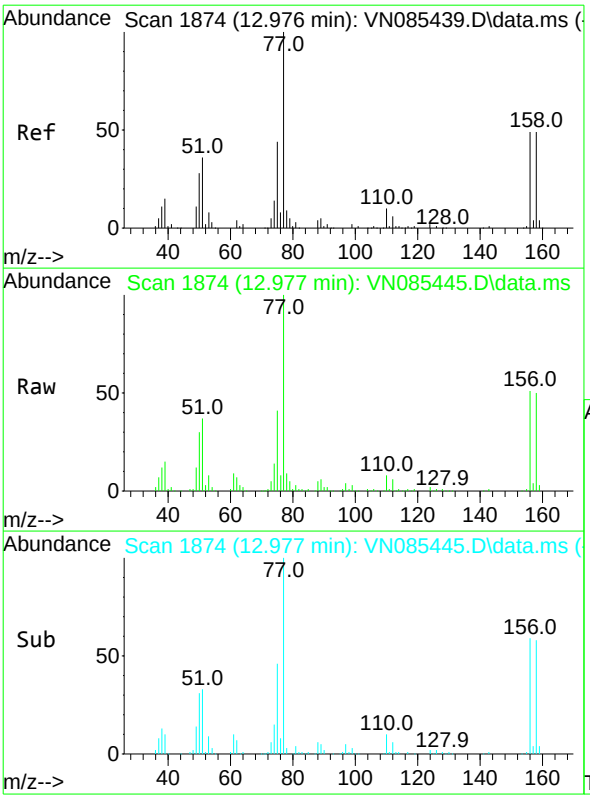




#76
1,2,3-Trichloropropane
Concen: 41.891 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 134976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 213.9 | 109.7 | 329.2 |






#77
Bromobenzene
Concen: 46.138 ug/l
RT: 12.977 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:156 Resp: 128968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 223.8 | 114.1 | 342.4 |
| 158 | 95.7 | 48.9 | 146.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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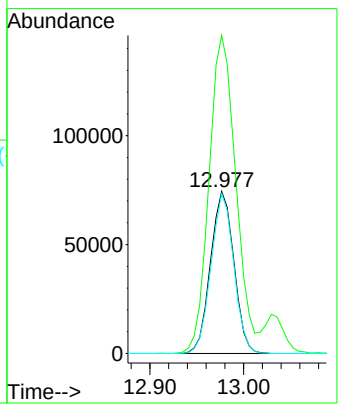
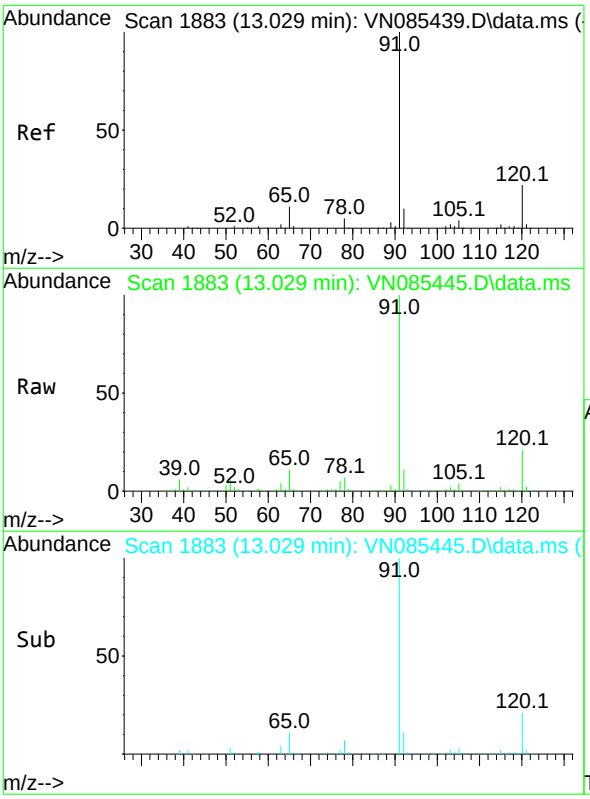
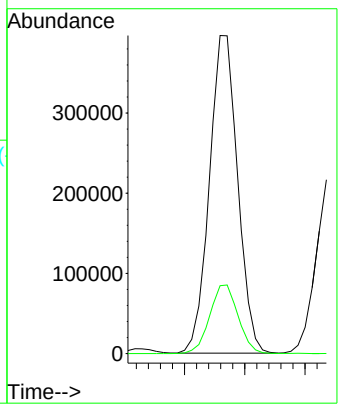


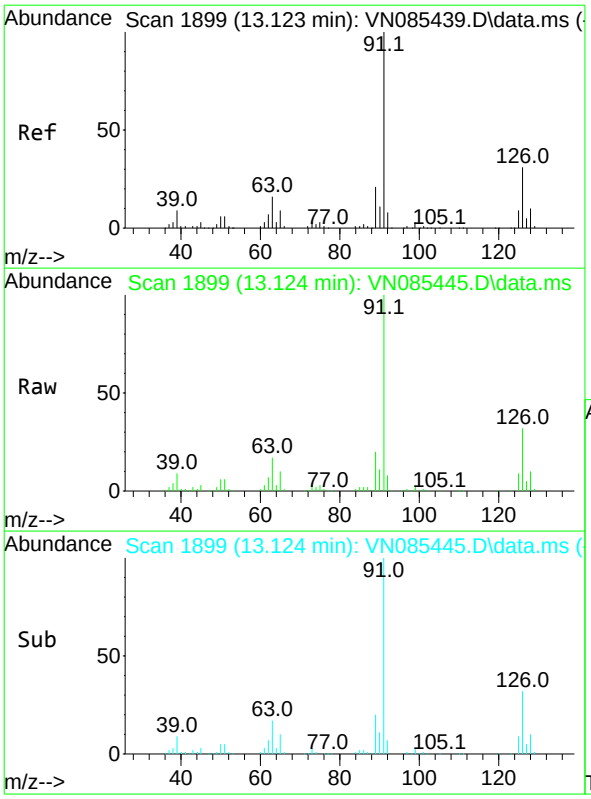




#78
n-propylbenzene
Concen: 51.001 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 91 Resp: 645977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.7 | 10.9 | 32.6 |






#79
2-Chlorotoluene
Concen: 47.870 ug/l
RT: 13.124 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 91 Resp: 392404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.8 | 15.7 | 47.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
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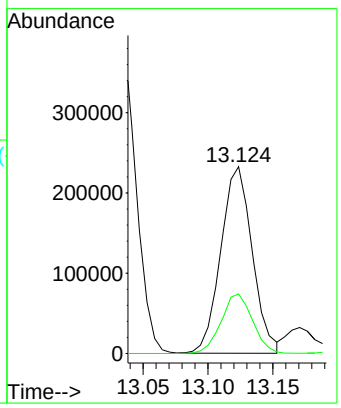
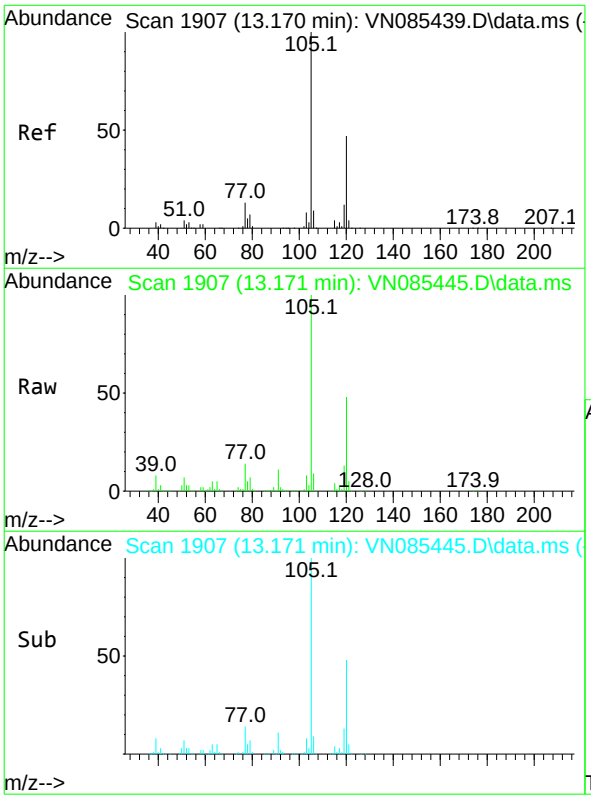
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

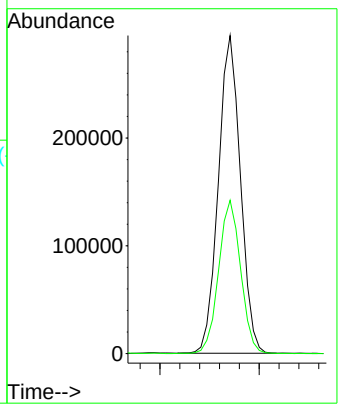


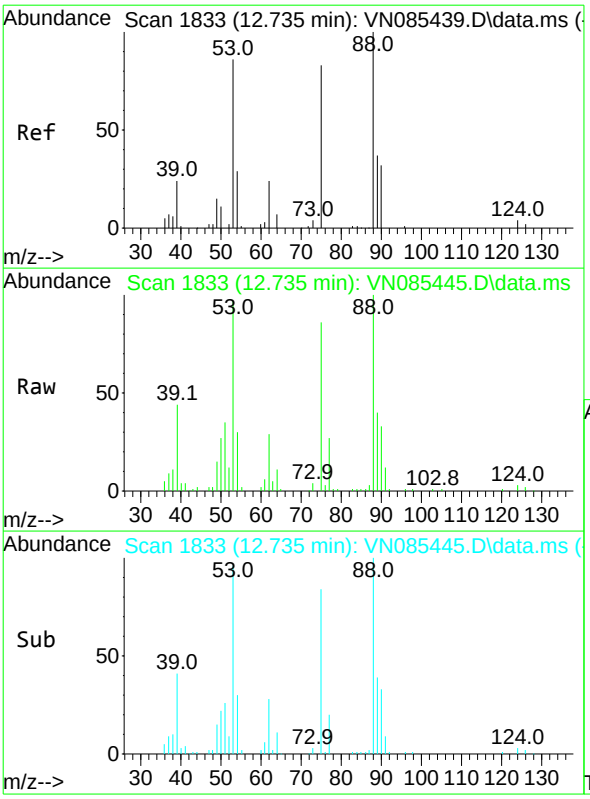




#80
1,3,5-Trimethylbenzene
Concen: 51.604 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:105 Resp: 456048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.1 | 23.9 | 71.7 |






#81
trans-1,4-Dichloro-2-butene
Concen: 49.226 ug/l m
RT: 12.735 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

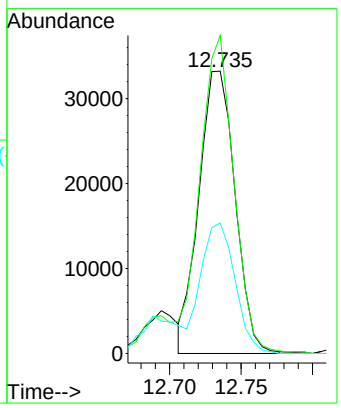
Tgt Ion: 75 Resp: 58623

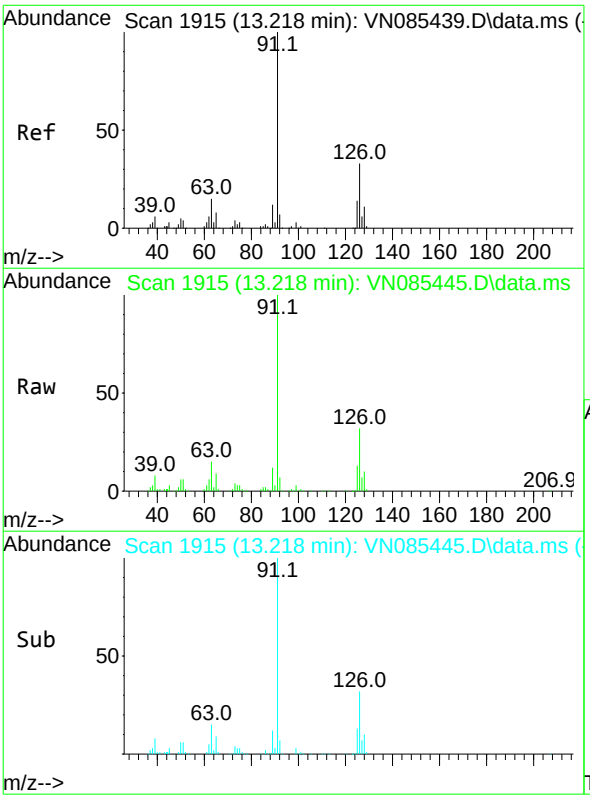
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 118.0 | 95.6 | 143.4 |
| 89 | 43.3 | 37.0 | 55.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

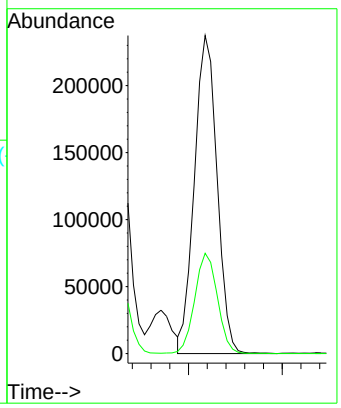


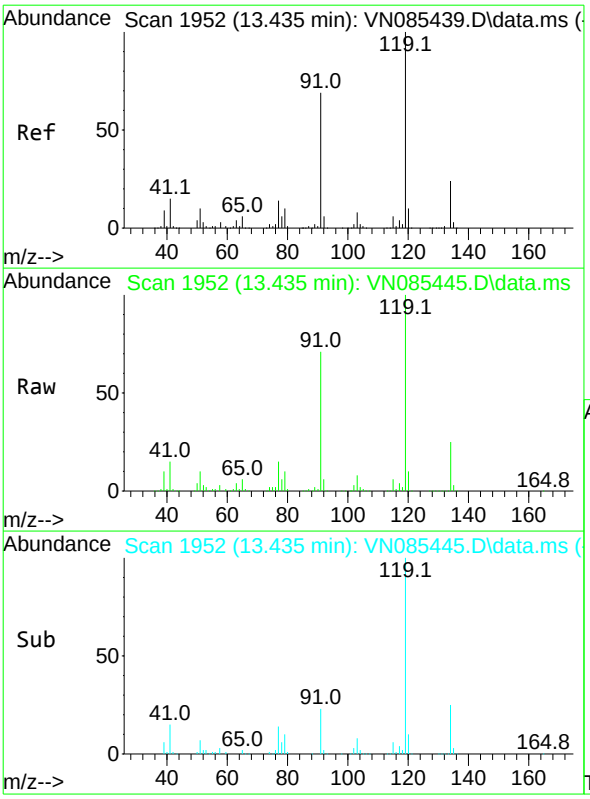




#82
4-Chlorotoluene
Concen: 48.776 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 91 Resp: 398110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.6 | 15.9 | 47.7 |






#83
tert-Butylbenzene
Concen: 50.997 ug/l
RT: 13.435 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

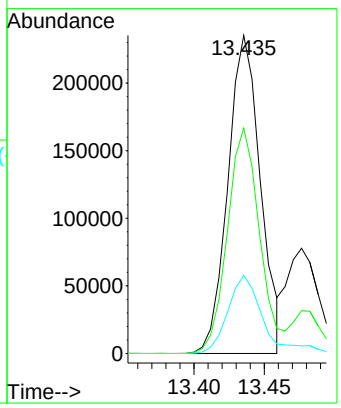
Tgt Ion:119 Resp: 378478

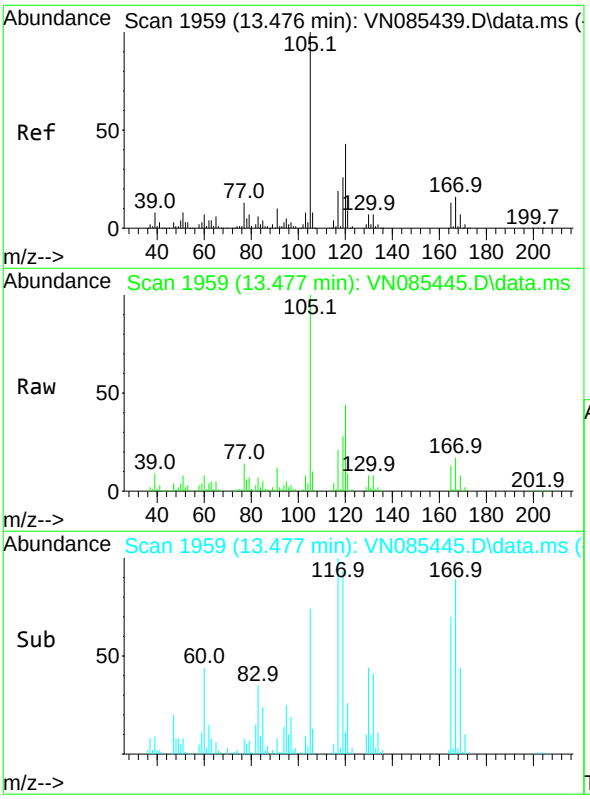
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 70.6 | 35.1 | 105.3 |
| 134 | 26.7 | 12.0 | 36.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

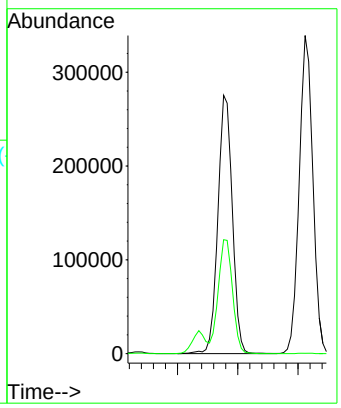


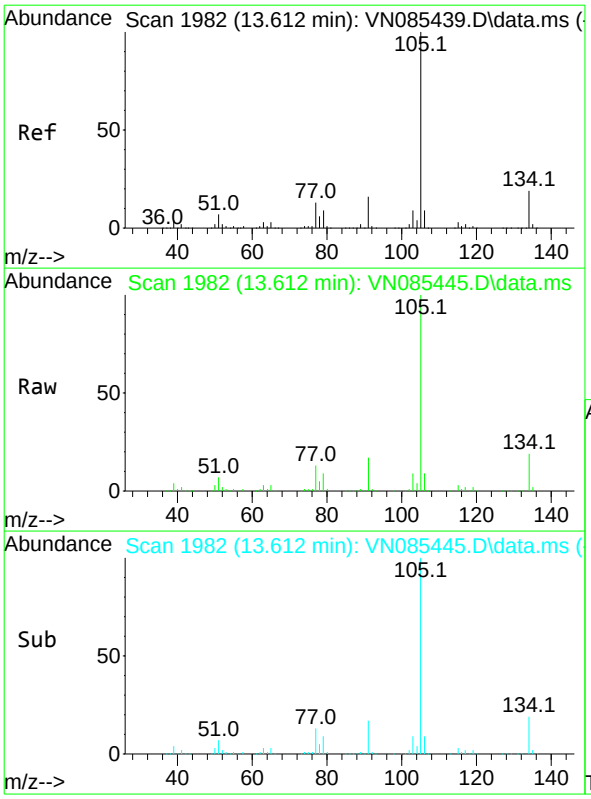




#84
1,2,4-Trimethylbenzene
Concen: 51.922 ug/l
RT: 13.477 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:105 Resp: 457340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.6 | 21.6 | 65.0 |






#85
sec-Butylbenzene
Concen: 51.777 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

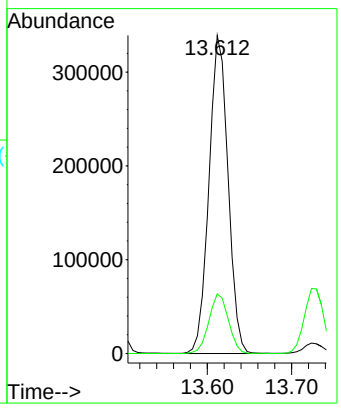
Tgt Ion:105 Resp: 532578

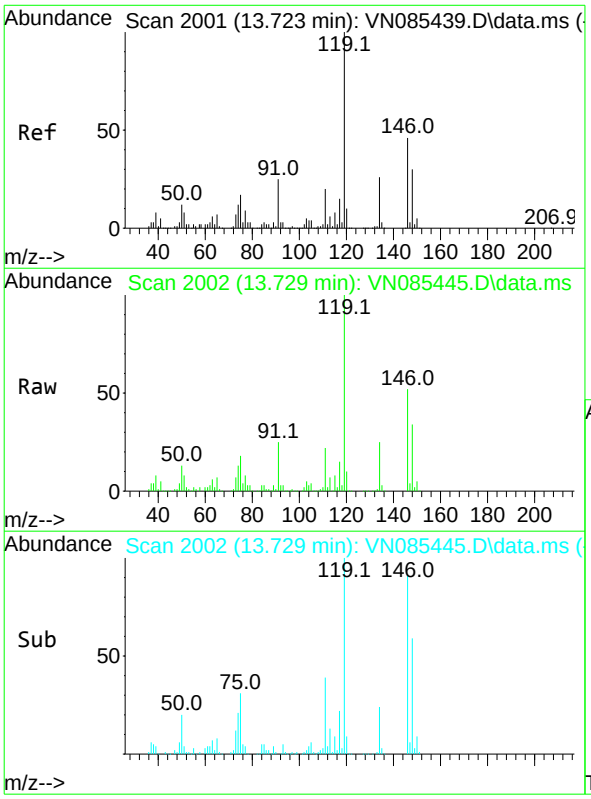
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.2 | 9.7 | 28.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

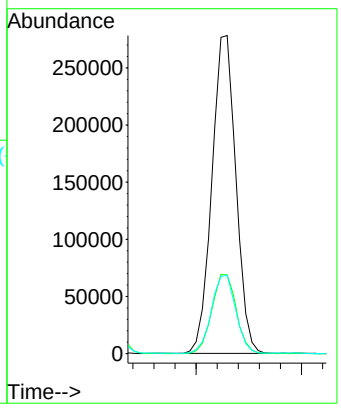


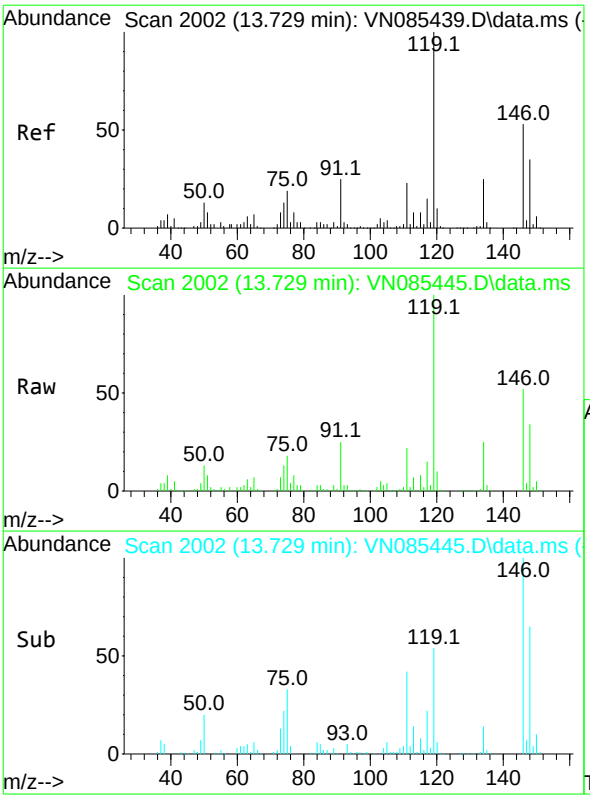




#86
p-Isopropyltoluene
Concen: 47.795 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:119 Resp: 440284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.3 | 12.7 | 38.0 |
| 91 | 25.0 | 12.7 | 38.1 |






#87
1,3-Dichlorobenzene
Concen: 45.920 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

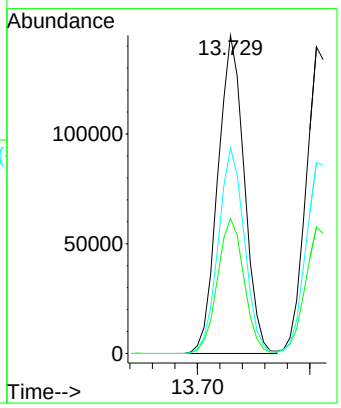
Tgt Ion:146 Resp: 236387

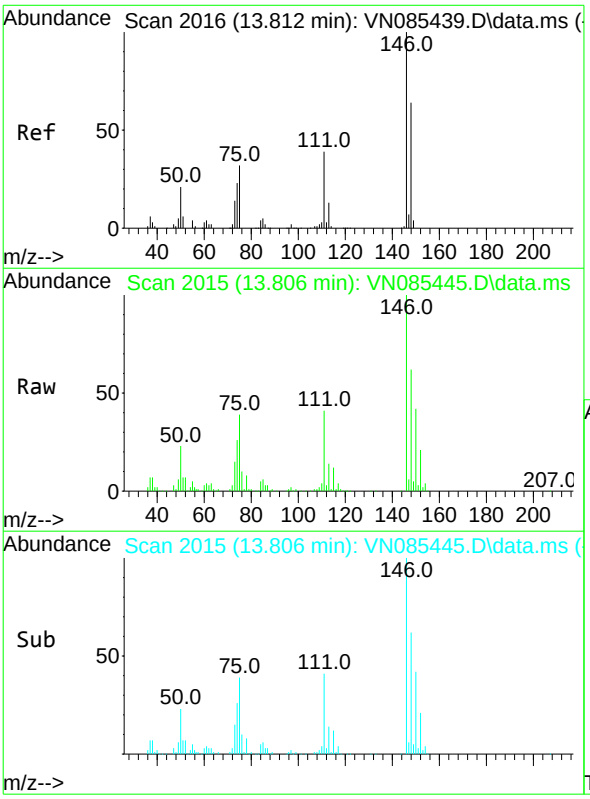
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.6 | 21.4 | 64.3 |
| 148 | 63.8 | 32.3 | 96.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

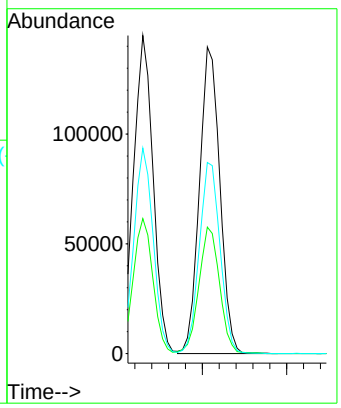


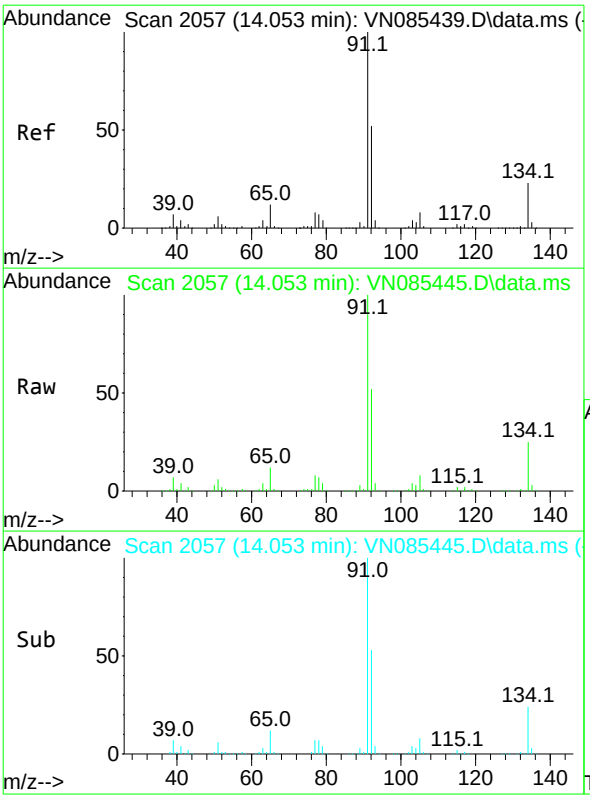




#88
1,4-Dichlorobenzene
Concen: 44.102 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:146 Resp: 235319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.9 | 21.3 | 63.7 |
| 148 | 63.5 | 32.4 | 97.0 |






#89
n-Butylbenzene
Concen: 50.578 ug/l
RT: 14.053 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

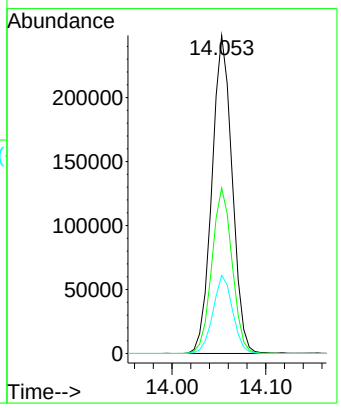
Tgt Ion: 91 Resp: 373227

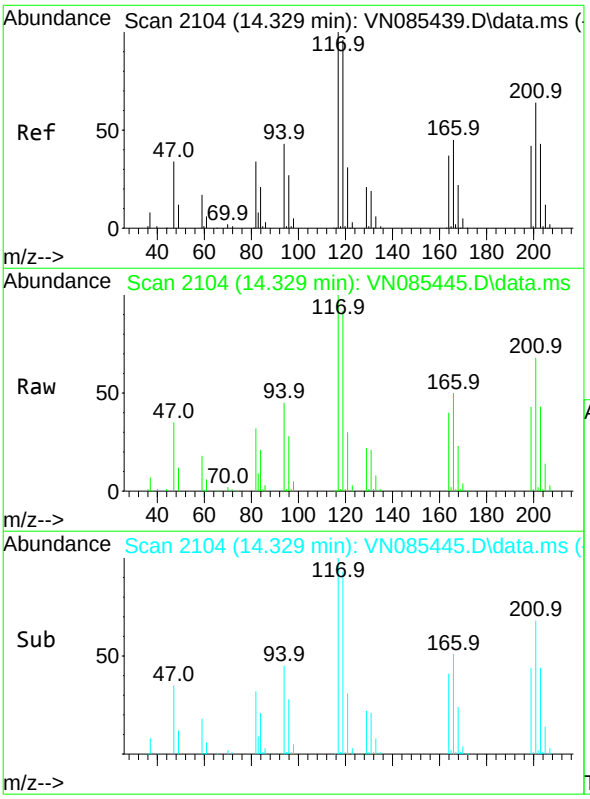
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.9 | 25.8 | 77.3 |
| 134 | 23.8 | 11.7 | 35.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

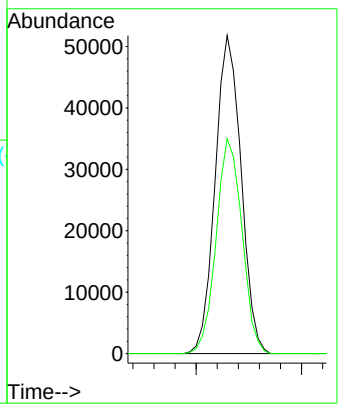


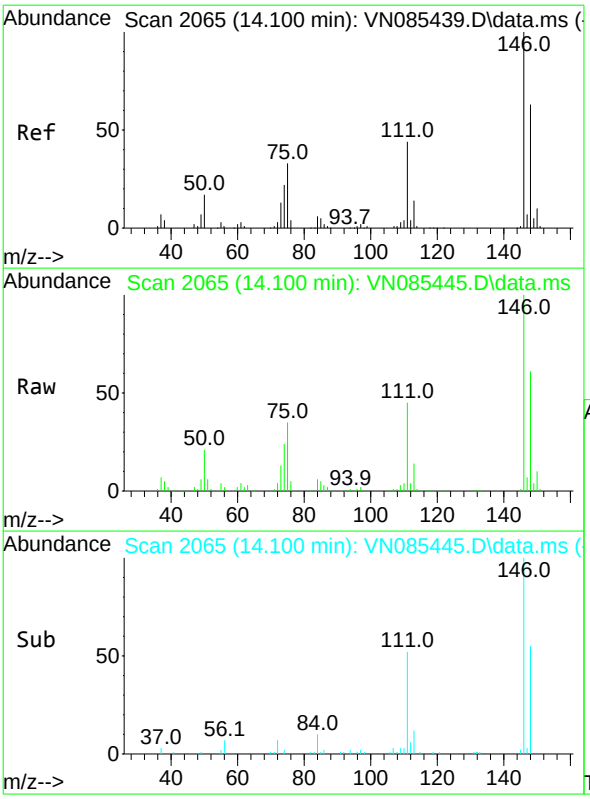




#90
Hexachloroethane
Concen: 45.215 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:117 Resp: 88538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 67.2 | 33.7 | 101.0 |






#91
1,2-Dichlorobenzene
Concen: 45.113 ug/l
RT: 14.100 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

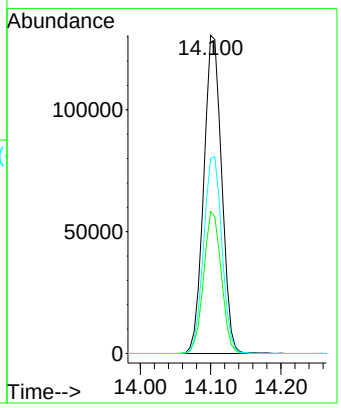
Tgt Ion:146 Resp: 231646

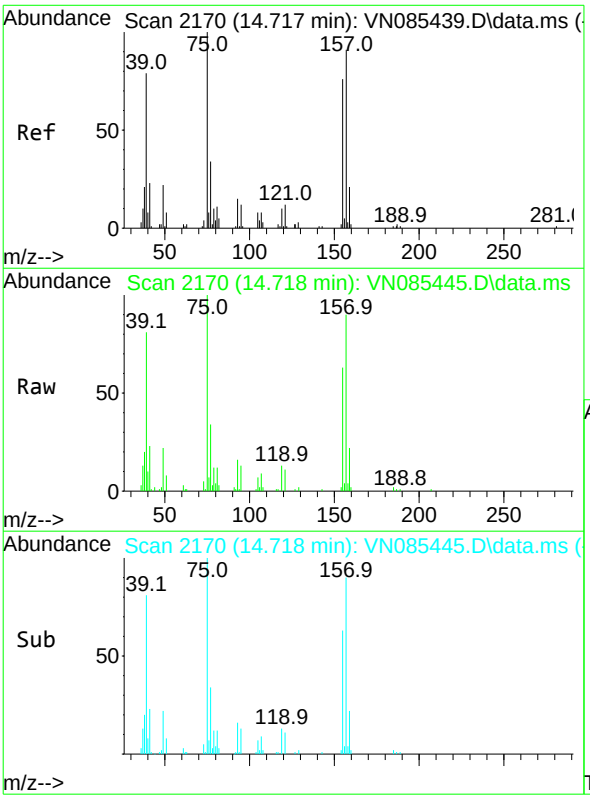
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.9 | 21.7 | 65.1 |
| 148 | 63.1 | 31.4 | 94.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

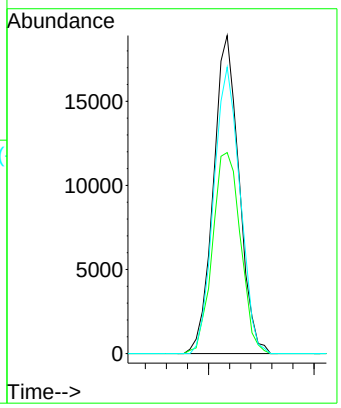


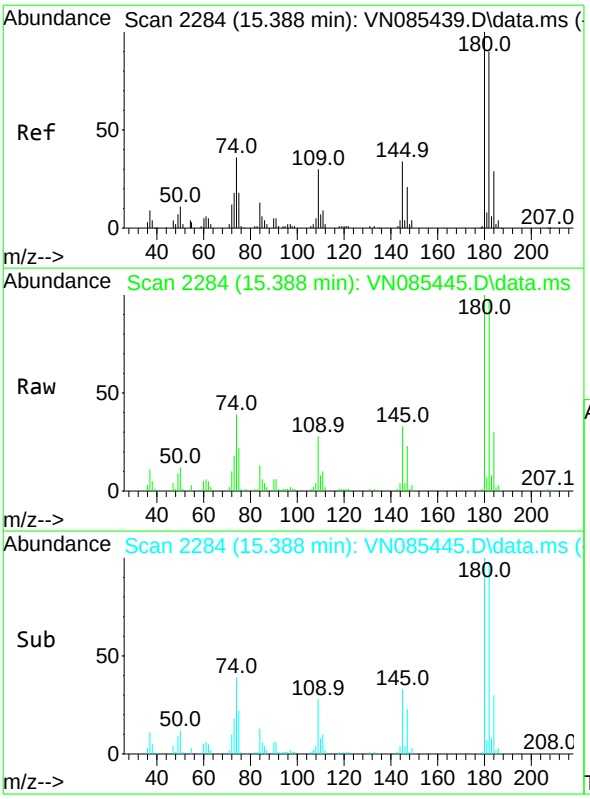




#92
1,2-Dibromo-3-Chloropropane
Concen: 46.221 ug/l
RT: 14.718 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 31899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 69.0 | 36.4 | 109.2 |
| 157 | 92.3 | 45.4 | 136.1 |






#93
1,2,4-Trichlorobenzene
Concen: 45.739 ug/l
RT: 15.388 min Scan# 22
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

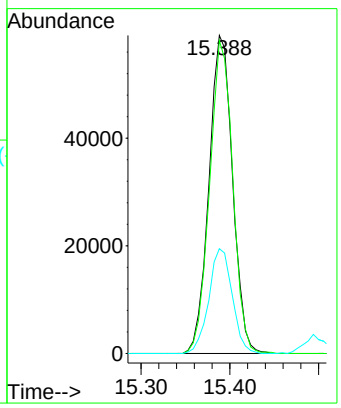
Tgt Ion:180 Resp: 109157

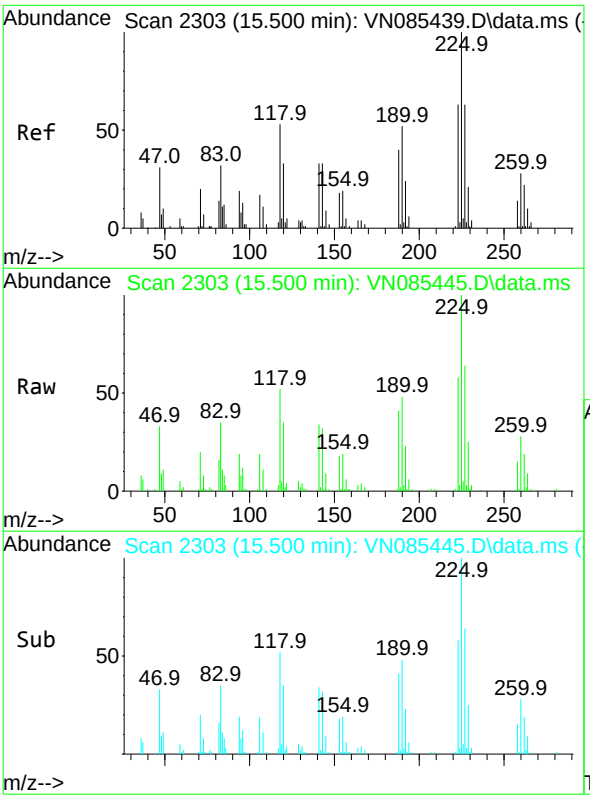
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.3 | 46.8 | 140.3 |
| 145 | 32.7 | 16.0 | 48.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

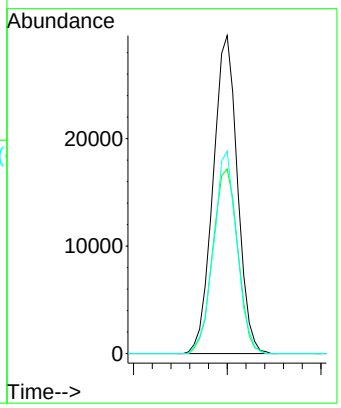


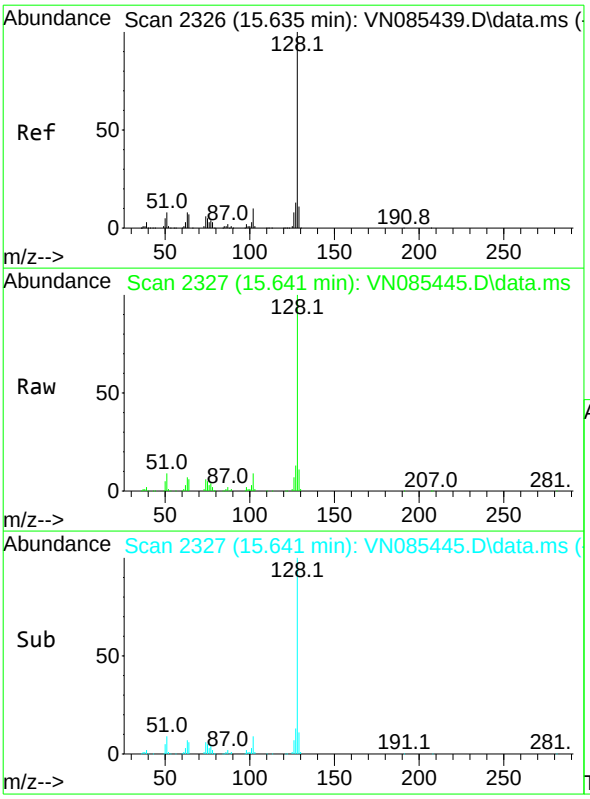




#94
Hexachlorobutadiene
Concen: 42.112 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:225 Resp: 53358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 59.8 | 30.7 | 92.1 |
| 227 | 61.2 | 30.9 | 92.5 |






#95
Naphthalene
Concen: 47.116 ug/l
RT: 15.641 min Scan# 23
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

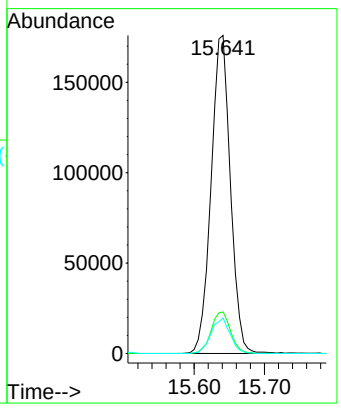
Tgt Ion:128 Resp: 335535

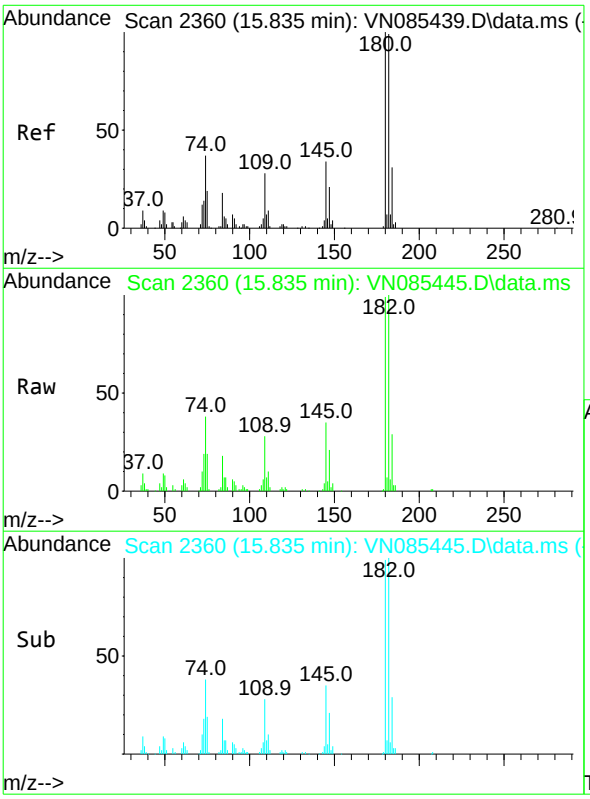
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.6 | 16.0 |
| 129 | 11.1 | 8.8 | 13.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

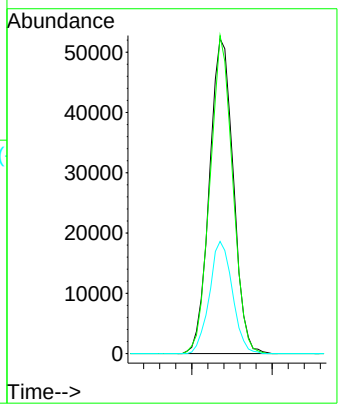



#96
1,2,3-Trichlorobenzene
Concen: 44.551 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:180 Resp: 107583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.4 | 142.2 |
| 145 | 34.3 | 16.9 | 50.7 |



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 110 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.677 | 0.593 | 12.4 | 104 | 0.00 |
| 3 | P | Chloromethane | 0.733 | 0.629 | 14.2 | 102 | 0.00 |
| 4 | C | Vinyl Chloride | 0.737 | 0.629 | 14.7# | 101 | 0.00 |
| 5 | T | Bromomethane | 0.445 | 0.364 | 18.2 | 96 | 0.00 |
| 6 | T | Chloroethane | 0.467 | 0.395 | 15.4 | 103 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.069 | 0.940 | 12.1 | 104 | 0.00 |
| 8 | T | Diethyl Ether | 0.369 | 0.316 | 14.4 | 97 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.602 | 0.538 | 10.6 | 109 | 0.00 |
| 10 | T | Methyl Iodide | 0.690 | 0.638 | 7.5 | 98 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.092 | 0.076 | 17.4 | 90 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.537 | 0.486 | 9.5# | 101 | 0.00 |
| 13 | T | Acrolein | 0.126 | 0.124 | 1.6 | 97 | 0.00 |
| 14 | T | Allyl chloride | 0.871 | 0.775 | 11.0 | 101 | 0.00 |
| 15 | T | Acrylonitrile | 0.294 | 0.268 | 8.8 | 99 | 0.00 |
| 16 | T | Acetone | 0.261 | 0.223 | 14.6 | 98 | 0.00 |
| 17 | T | Carbon Disulfide | 1.652 | 1.366 | 17.3 | 102 | 0.00 |
| 18 | T | Methyl Acetate | 0.793 | 0.714 | 10.0 | 100 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.742 | 1.665 | 4.4 | 98 | 0.00 |
| 20 | T | Methylene Chloride | 0.646 | 0.555 | 14.1 | 97 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.573 | 0.512 | 10.6 | 102 | 0.00 |
| 22 | T | Diisopropyl ether | 1.933 | 1.817 | 6.0 | 98 | 0.00 |
| 23 | T | Vinyl Acetate | 1.353 | 1.339 | 1.0 | 99 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.178 | 1.040 | 11.7 | 98 | 0.00 |
| 25 | T | 2-Butanone | 0.384 | 0.351 | 8.6 | 99 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.953 | 0.907 | 4.8 | 107 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.675 | 0.614 | 9.0 | 99 | 0.00 |
| 28 | T | Bromochloromethane | 0.548 | 0.484 | 11.7 | 98 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.243 | 0.233 | 4.1 | 98 | 0.00 |
| 30 | C | Chloroform | 1.218 | 1.074 | 11.8# | 101 | 0.00 |
| 31 | T | Cyclohexane | 1.024 | 0.878 | 14.3 | 110 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.068 | 0.947 | 11.3 | 103 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.807 | 0.804 | 0.4 | 107 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 109 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.347 | 0.352 | -1.4 | 107 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.487 | 0.437 | 10.3 | 103 | 0.00 |
| 37 | T | Ethyl Acetate | 0.491 | 0.434 | 11.6 | 97 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.557 | 0.496 | 11.0 | 102 | 0.00 |
| 39 | T | Methylcyclohexane | 0.457 | 0.455 | 0.4 | 107 | 0.00 |
| 40 | TM | Benzene | 1.463 | 1.336 | 8.7 | 100 | 0.00 |
| 41 | T | Methacrylonitrile | 0.256 | 0.241 | 5.9 | 97 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.551 | 0.501 | 9.1 | 100 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.787 | 0.716 | 9.0 | 96 | 0.00 |
| 44 | TM | Trichloroethene | 0.341 | 0.297 | 12.9 | 100 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.374 | 0.334 | 10.7# | 98 | 0.00 |
| 46 | T | Dibromomethane | 0.270 | 0.238 | 11.9 | 97 | 0.00 |
| 47 | T | Bromodichloromethane | 0.549 | 0.502 | 8.6 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 0.354 | 0.354 | 0.0 | 98 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 0.006 | 0.005 | 16.7 | 81 | 0.00 |
| 50 | S | Toluene-d8 | 1.232 | 1.289 | -4.6 | 111 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.457 | 0.449 | 1.8 | 99 | 0.00 |
| 52 | CM | Toluene | 0.848 | 0.815 | 3.9# | 102 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.519 | 0.496 | 4.4 | 98 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.554 | 0.530 | 4.3 | 98 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.335 | 0.310 | 7.5 | 99 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.469 | 0.492 | -4.9 | 99 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.583 | 0.547 | 6.2 | 99 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.213 | 0.218 | -2.3 | 99 | 0.00 |
| 59 | T | 2-Hexanone | 0.321 | 0.323 | -0.6 | 99 | 0.00 |
| 60 | T | Dibromochloromethane | 0.405 | 0.372 | 8.1 | 98 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.334 | 0.299 | 10.5 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.422 | 0.446 | -5.7 | 108 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 108 | 0.00 |
| 64 | T | Tetrachloroethene | 0.341 | 0.306 | 10.3 | 102 | 0.00 |
| 65 | PM | Chlorobenzene | 1.095 | 1.006 | 8.1 | 101 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.402 | 0.359 | 10.7 | 99 | 0.00 |
| 67 | C | Ethyl Benzene | 1.784 | 1.798 | -0.8# | 104 | 0.00 |
| 68 | T | m/p-Xylenes | 0.659 | 0.681 | -3.3 | 104 | 0.00 |
| 69 | T | o-Xylene | 0.630 | 0.656 | -4.1 | 104 | 0.00 |
| 70 | T | Styrene | 1.043 | 1.108 | -6.2 | 102 | 0.00 |
| 71 | P | Bromoform | 0.288 | 0.283 | 1.7 | 98 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 108 | 0.00 |
| 73 | T | Isopropylbenzene | 3.375 | 3.371 | 0.1 | 106 | 0.00 |
| 74 | T | N-amyl acetate | 1.517 | 1.478 | 2.6 | 99 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.192 | 1.040 | 12.8 | 98 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.016 | 0.851 | 16.2 | 103 | 0.00 |
| 77 | T | Bromobenzene | 0.882 | 0.814 | 7.7 | 103 | 0.00 |
| 78 | T | n-propylbenzene | 3.995 | 4.075 | -2.0 | 106 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.586 | 2.475 | 4.3 | 104 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.787 | 2.877 | -3.2 | 106 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.376 | 0.370 | 1.6 | 103 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.574 | 2.511 | 2.4 | 105 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.341 | 2.387 | -2.0 | 106 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.778 | 2.885 | -3.9 | 103 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.244 | 3.360 | -3.6 | 106 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.631 | 2.777 | -5.5 | 105 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.624 | 1.491 | 8.2 | 103 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.683 | 1.484 | 11.8 | 103 | 0.00 |
| 89 | T | n-Butylbenzene | 2.327 | 2.354 | -1.2 | 103 | 0.00 |
| 90 | T | Hexachloroethane | 0.618 | 0.559 | 9.5 | 105 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.620 | 1.461 | 9.8 | 102 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.218 | 0.201 | 7.8 | 98 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.753 | 0.689 | 8.5 | 95 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.400 | 0.337 | 15.8 | 99 | 0.00 |
| 95 | T | Naphthalene | 2.246 | 2.117 | 5.7 | 92 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 0.762 | 0.679 | 10.9 | 93 | 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_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 110 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 43.772 | 12.5 | 104 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 42.883 | 14.2 | 102 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 42.715 | 14.6# | 101 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 40.910 | 18.2 | 96 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 42.299 | 15.4 | 103 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 43.956 | 12.1 | 104 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 42.846 | 14.3 | 97 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 44.706 | 10.6 | 109 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 46.259 | 7.5 | 98 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 206.633 | 17.3 | 90 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 45.317 | 9.4# | 101 | 0.00 |
| 13 | T | Acrolein | 250.000 | 244.765 | 2.1 | 97 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 44.501 | 11.0 | 101 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 227.920 | 8.8 | 99 | 0.00 |
| 16 | T | Acetone | 250.000 | 213.971 | 14.4 | 98 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 41.342 | 17.3 | 102 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 45.028 | 9.9 | 100 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 47.768 | 4.5 | 98 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 43.017 | 14.0 | 97 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 44.672 | 10.7 | 102 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 46.996 | 6.0 | 98 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 247.459 | 1.0 | 99 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 44.114 | 11.8 | 98 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 228.924 | 8.4 | 99 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 47.593 | 4.8 | 107 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 45.446 | 9.1 | 99 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 44.122 | 11.8 | 98 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 239.065 | 4.4 | 98 | 0.00 |
| 30 | C | Chloroform | 50.000 | 44.071 | 11.9# | 101 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 42.878 | 14.2 | 110 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 44.332 | 11.3 | 103 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.782 | 0.4 | 107 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 109 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.768 | -1.5 | 107 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 44.863 | 10.3 | 103 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 44.123 | 11.8 | 97 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 44.456 | 11.1 | 102 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 49.687 | 0.6 | 107 | 0.00 |
| 40 | TM | Benzene | 50.000 | 45.657 | 8.7 | 100 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 47.155 | 5.7 | 97 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 45.481 | 9.0 | 100 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 45.440 | 9.1 | 96 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 43.622 | 12.8 | 100 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 44.744 | 10.5# | 98 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 44.214 | 11.6 | 97 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 45.655 | 8.7 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 49.948 | 0.1 | 98 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 792.760 | 20.7 | 81 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 52.302 | -4.6 | 111 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 245.877 | 1.6 | 99 | 0.00 |
| 52 | CM | Toluene | 50.000 | 48.073 | 3.9# | 102 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 47.757 | 4.5 | 98 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 47.783 | 4.4 | 98 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 46.173 | 7.7 | 99 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 43.762 | 12.5 | 99 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 46.877 | 6.2 | 99 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 256.116 | -2.4 | 99 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 251.213 | -0.5 | 99 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 45.935 | 8.1 | 98 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 44.837 | 10.3 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 52.899 | -5.8 | 108 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 108 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 44.886 | 10.2 | 102 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 45.901 | 8.2 | 101 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 44.712 | 10.6 | 99 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 50.391 | -0.8# | 104 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 103.341 | -3.3 | 104 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 52.093 | -4.2 | 104 | 0.00 |
| 70 | T | Styrene | 50.000 | 53.103 | -6.2 | 102 | 0.00 |
| 71 | P | Bromoform | 50.000 | 49.119 | 1.8 | 98 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 108 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 49.951 | 0.1 | 106 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 48.730 | 2.5 | 99 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 43.627 | 12.7 | 98 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 41.891 | 16.2 | 103 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 46.138 | 7.7 | 103 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 51.001 | -2.0 | 106 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 47.870 | 4.3 | 104 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.604 | -3.2 | 106 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 49.226 | 1.5 | 103 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 48.776 | 2.4 | 105 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.997 | -2.0 | 106 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.922 | -3.8 | 103 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.777 | -3.6 | 106 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 47.795 | 4.4 | 105 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 45.920 | 8.2 | 103 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 44.102 | 11.8 | 103 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 50.578 | -1.2 | 103 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 45.215 | 9.6 | 105 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 45.113 | 9.8 | 102 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.221 | 7.6 | 98 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 45.739 | 8.5 | 95 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 42.112 | 15.8 | 99 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 47.116 | 5.8 | 92 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 44.551 | 10.9 | 93 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH  Contract: PORT06

Lab Code: CHEM  Case No.: Q1194  SAS No.: Q1194  SDG No.: Q1194

Instrument ID: MSVOA_Y  Calibration Date(s): 01/24/2025 01/24/2025

Heated Purge: (Y/N) Y  Calibration Time(s): 14:03 16:21

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

LAB FILE ID: RRF050 = VY020927.D  RRF100 = VY020928.D  RRF150 = VY020929.D
RRF020 = VY020931.D  RRF010 = VY020932.D  RRF005 = VY020933.D

| COMPOUND | RRF050 | RRF100 | RRF150 | RRF020 | RRF010 | RRF005 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.384 | 0.335 | 0.373 | 0.388 | 0.395 | 0.394 | 0.378 | 6 |
| Chloromethane | 0.281 | 0.237 | 0.277 | 0.283 | 0.309 | 0.301 | 0.281 | 8.9 |
| Vinyl Chloride | 0.313 | 0.271 | 0.310 | 0.310 | 0.327 | 0.309 | 0.307 | 6 |
| Bromomethane | 0.199 | 0.167 | 0.191 | 0.203 | 0.241 | 0.244 | 0.208 | 14.4 |
| Chloroethane | 0.185 | 0.158 | 0.180 | 0.183 | 0.190 | 0.182 | 0.180 | 6.2 |
| Trichlorofluoromethane | 0.665 | 0.582 | 0.669 | 0.669 | 0.685 | 0.638 | 0.651 | 5.7 |
| 1,1,2-Trichlorotrifluoroethane | 0.436 | 0.382 | 0.438 | 0.432 | 0.454 | 0.437 | 0.430 | 5.7 |
| 1,1-Dichloroethene | 0.408 | 0.365 | 0.421 | 0.412 | 0.428 | 0.401 | 0.406 | 5.4 |
| Acetone | 0.058 | 0.044 | 0.052 | 0.060 | 0.058 | 0.052 | 0.054 | 10.7 |
| Carbon Disulfide | 1.276 | 1.131 | 1.297 | 1.274 | 1.304 | 1.237 | 1.253 | 5.1 |
| Methyl tert-butyl Ether | 0.977 | 0.843 | 0.981 | 1.017 | 0.982 | 0.841 | 0.940 | 8.2 |
| Methyl Acetate | 0.208 | 0.168 | 0.194 | 0.210 | 0.198 | 0.192 | 0.195 | 7.7 |
| Methylene Chloride | 0.404 | 0.349 | 0.403 | 0.413 | 0.427 | 0.415 | 0.402 | 6.8 |
| trans-1,2-Dichloroethene | 0.446 | 0.388 | 0.448 | 0.443 | 0.460 | 0.440 | 0.438 | 5.8 |
| 1,1-Dichloroethane | 0.740 | 0.647 | 0.745 | 0.742 | 0.752 | 0.708 | 0.722 | 5.5 |
| Cyclohexane | 0.680 | 0.605 | 0.681 | 0.714 | 0.762 | 0.817 | 0.710 | 10.3 |
| 2-Butanone | 0.097 | 0.078 | 0.091 | 0.104 | 0.100 | 0.079 | 0.091 | 12 |
| Carbon Tetrachloride | 0.493 | 0.438 | 0.500 | 0.487 | 0.502 | 0.479 | 0.483 | 4.9 |
| cis-1,2-Dichloroethene | 0.501 | 0.449 | 0.510 | 0.500 | 0.516 | 0.486 | 0.494 | 4.9 |
| Bromochloromethane | 0.298 | 0.296 | 0.297 | 0.308 | 0.313 | 0.232 | 0.291 | 10.1 |
| Chloroform | 0.777 | 0.682 | 0.790 | 0.786 | 0.792 | 0.759 | 0.764 | 5.5 |
| 1,1,1-Trichloroethane | 0.755 | 0.663 | 0.766 | 0.753 | 0.774 | 0.738 | 0.742 | 5.4 |
| Methylcyclohexane | 0.559 | 0.502 | 0.572 | 0.545 | 0.553 | 0.524 | 0.543 | 4.7 |
| Benzene | 1.202 | 1.061 | 1.205 | 1.197 | 1.234 | 1.156 | 1.176 | 5.2 |
| 1,2-Dichloroethane | 0.305 | 0.262 | 0.300 | 0.307 | 0.302 | 0.281 | 0.293 | 6.1 |
| Trichloroethene | 0.322 | 0.290 | 0.332 | 0.326 | 0.336 | 0.309 | 0.319 | 5.3 |
| 1,2-Dichloropropane | 0.268 | 0.236 | 0.270 | 0.267 | 0.270 | 0.246 | 0.260 | 5.8 |
| Bromodichloromethane | 0.406 | 0.358 | 0.411 | 0.398 | 0.412 | 0.371 | 0.393 | 5.8 |
| 4-Methyl-2-Pentanone | 0.162 | 0.132 | 0.155 | 0.170 | 0.152 | 0.120 | 0.149 | 12.7 |
| Toluene | 0.779 | 0.692 | 0.785 | 0.774 | 0.786 | 0.722 | 0.756 | 5.2 |

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

Raw Data

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH  Contract: PORT06

Lab Code: CHEM  Case No.: Q1194  SAS No.: Q1194  SDG No.: Q1194

Instrument ID: MSVOA_Y  Calibration Date(s): 01/24/2025  01/24/2025

Heated Purge: (Y/N) Y  Calibration Time(s): 14:03  16:21

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

LAB FILE ID: RRF050 = VY020927.D  RRF100 = VY020928.D  RRF150 = VY020929.D
RRF020 = VY020931.D  RRF010 = VY020932.D  RRF005 = VY020933.D

| COMPOUND | RRF050 | RRF100 | RRF150 | RRF020 | RRF010 | RRF005 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.379 | 0.336 | 0.387 | 0.381 | 0.365 | 0.312 | 0.360 | 8.3 |
| cis-1,3-Dichloropropene | 0.446 | 0.396 | 0.455 | 0.446 | 0.436 | 0.399 | 0.430 | 6 |
| 1,1,2-Trichloroethane | 0.207 | 0.179 | 0.205 | 0.217 | 0.201 | 0.189 | 0.199 | 6.9 |
| 2-Hexanone | 0.106 | 0.089 | 0.103 | 0.110 | 0.096 | 0.070 | 0.096 | 15.4 |
| Dibromochloromethane | 0.290 | 0.257 | 0.296 | 0.296 | 0.289 | 0.257 | 0.281 | 6.7 |
| 1,2-Dibromoethane | 0.199 | 0.169 | 0.198 | 0.203 | 0.200 | 0.174 | 0.191 | 7.8 |
| Tetrachloroethene | 0.352 | 0.312 | 0.358 | 0.348 | 0.361 | 0.358 | 0.348 | 5.3 |
| Chlorobenzene | 0.992 | 0.881 | 1.012 | 0.991 | 1.019 | 0.972 | 0.978 | 5.1 |
| Ethyl Benzene | 1.761 | 1.565 | 1.777 | 1.722 | 1.762 | 1.650 | 1.706 | 4.9 |
| m/p-Xylenes | 0.674 | 0.596 | 0.679 | 0.667 | 0.677 | 0.627 | 0.653 | 5.2 |
| o-Xylene | 0.632 | 0.559 | 0.635 | 0.619 | 0.634 | 0.583 | 0.610 | 5.3 |
| Styrene | 1.054 | 0.926 | 1.051 | 1.027 | 1.043 | 0.899 | 1.000 | 6.9 |
| Bromoform | 0.208 | 0.177 | 0.202 | 0.213 | 0.203 | 0.178 | 0.197 | 7.9 |
| Isopropylbenzene | 3.562 | 3.149 | 3.639 | 3.423 | 3.496 | 3.394 | 3.444 | 4.9 |
| 1,1,2,2-Tetrachloroethane | 0.570 | 0.469 | 0.548 | 0.577 | 0.566 | 0.485 | 0.536 | 8.8 |
| 1,3-Dichlorobenzene | 1.588 | 1.371 | 1.583 | 1.554 | 1.638 | 1.540 | 1.546 | 6 |
| 1,4-Dichlorobenzene | 1.555 | 1.334 | 1.553 | 1.523 | 1.602 | 1.544 | 1.518 | 6.2 |
| 1,2-Dichlorobenzene | 1.386 | 1.182 | 1.378 | 1.346 | 1.408 | 1.335 | 1.339 | 6.1 |
| 1,2-Dibromo-3-Chloropropane | 0.085 | 0.070 | 0.086 | 0.090 | 0.083 | 0.069 | 0.080 | 10.9 |
| 1,2,4-Trichlorobenzene | 0.840 | 0.782 | 0.938 | 0.792 | 0.786 | 0.697 | 0.806 | 9.9 |
| 1,2,3-Trichlorobenzene | 0.704 | 0.651 | 0.797 | 0.672 | 0.648 | 0.589 | 0.677 | 10.3 |
| 1,2-Dichloroethane-d4 | 0.446 | 0.369 | 0.386 | 0.409 | 0.404 | 0.378 | 0.399 | 7 |
| Dibromofluoromethane | 0.320 | 0.276 | 0.284 | 0.287 | 0.291 | 0.264 | 0.287 | 6.6 |
| Toluene-d8 | 1.254 | 1.081 | 1.109 | 1.121 | 1.135 | 0.981 | 1.113 | 7.9 |
| 4-Bromofluorobenzene | 0.416 | 0.359 | 0.364 | 0.390 | 0.375 | 0.319 | 0.371 | 8.8 |

* 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 : 82Y012425S.M
Title : SW846 8260
Last Update : Sat Jan 25 01:12:18 2025
Response Via : Initial Calibration

Calibration Files
5 =VY020933.D 10 =VY020932.D 20 =VY020931.D 50 =VY020927.D 100 =VY020928.D 150 =VY020929.D

| | | Compound | 5 | 10 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.394 | 0.395 | 0.388 | 0.384 | 0.335 | 0.373 | 0.378 | 5.96 |
| 3) | P | Chloromethane | 0.301 | 0.309 | 0.283 | 0.281 | 0.237 | 0.277 | 0.281 | 8.88 |
| 4) | C | Vinyl Chloride | 0.309 | 0.327 | 0.310 | 0.313 | 0.271 | 0.310 | 0.307 | 6.05# |
| 5) | T | Bromomethane | 0.244 | 0.241 | 0.203 | 0.199 | 0.167 | 0.191 | 0.208 | 14.42 |
| 6) | T | Chloroethane | 0.182 | 0.190 | 0.183 | 0.185 | 0.158 | 0.180 | 0.180 | 6.21 |
| 7) | T | Trichlorofluor... | 0.638 | 0.685 | 0.669 | 0.665 | 0.582 | 0.669 | 0.651 | 5.72 |
| 8) | T | Diethyl Ether | 0.186 | 0.209 | 0.214 | 0.207 | 0.175 | 0.209 | 0.200 | 7.84 |
| 9) | T | 1,1,2-Trichlor... | 0.437 | 0.454 | 0.432 | 0.436 | 0.382 | 0.438 | 0.430 | 5.75 |
| 10) | T | Methyl Iodide | 0.496 | 0.520 | 0.476 | 0.545 | 0.485 | 0.551 | 0.512 | 6.19 |
| 11) | T | Tert butyl alc... | 0.038 | 0.037 | 0.039 | 0.027 | 0.020 | 0.024 | 0.031 | 26.67 |
| 12) | CM | 1,1-Dichloroet... | 0.401 | 0.428 | 0.412 | 0.408 | 0.365 | 0.421 | 0.406 | 5.43# |
| 13) | T | Acrolein | 0.031 | 0.044 | 0.047 | 0.046 | 0.040 | 0.043 | 0.042 | 14.01 |
| 14) | T | Allyl chloride | 0.548 | 0.589 | 0.572 | 0.580 | 0.516 | 0.594 | 0.566 | 5.21 |
| 15) | T | Acrylonitrile | 0.068 | 0.082 | 0.089 | 0.085 | 0.068 | 0.080 | 0.079 | 11.04 |
| 16) | T | Acetone | 0.052 | 0.058 | 0.060 | 0.058 | 0.044 | 0.052 | 0.054 | 10.66 |
| 17) | T | Carbon Disulfide | 1.237 | 1.304 | 1.274 | 1.276 | 1.131 | 1.297 | 1.253 | 5.15 |
| 18) | T | Methyl Acetate | 0.192 | 0.198 | 0.210 | 0.208 | 0.168 | 0.194 | 0.195 | 7.72 |
| 19) | T | Methyl tert-bu... | 0.841 | 0.982 | 1.017 | 0.977 | 0.843 | 0.981 | 0.940 | 8.24 |
| 20) | T | Methylene Chlo... | 0.415 | 0.427 | 0.413 | 0.404 | 0.349 | 0.403 | 0.402 | 6.76 |
| 21) | T | trans-1,2-Dich... | 0.440 | 0.460 | 0.443 | 0.446 | 0.388 | 0.448 | 0.438 | 5.76 |
| 22) | T | Diisopropyl ether | 1.071 | 1.190 | 1.200 | 1.188 | 1.024 | 1.164 | 1.139 | 6.45 |
| 23) | T | Vinyl Acetate | 0.530 | 0.653 | 0.701 | 0.679 | 0.568 | 0.653 | 0.631 | 10.62 |
| 24) | P | 1,1-Dichloroet... | 0.708 | 0.752 | 0.742 | 0.740 | 0.647 | 0.745 | 0.722 | 5.49 |
| 25) | T | 2-Butanone | 0.079 | 0.100 | 0.104 | 0.097 | 0.078 | 0.091 | 0.091 | 12.03 |
| 26) | T | 2,2-Dichloropr... | 0.772 | 0.742 | 0.722 | 0.701 | 0.623 | 0.709 | 0.711 | 7.08 |
| 27) | T | cis-1,2-Dichlo... | 0.486 | 0.516 | 0.500 | 0.501 | 0.449 | 0.510 | 0.494 | 4.87 |
| 28) | T | Bromochloromet... | 0.232 | 0.313 | 0.308 | 0.298 | 0.296 | 0.297 | 0.291 | 10.09 |
| 29) | T | Tetrahydrofuran | 0.050 | 0.065 | 0.070 | 0.067 | 0.053 | 0.062 | 0.061 | 12.90 |
| 30) | C | Chloroform | 0.759 | 0.792 | 0.786 | 0.777 | 0.682 | 0.790 | 0.764 | 5.51# |
| 31) | T | Cyclohexane | 0.817 | 0.762 | 0.714 | 0.680 | 0.605 | 0.681 | 0.710 | 10.34 |
| 32) | T | 1,1,1-Trichlor... | 0.738 | 0.774 | 0.753 | 0.755 | 0.663 | 0.766 | 0.742 | 5.44 |
| 33) | S | 1,2-Dichloroet... | 0.378 | 0.404 | 0.409 | 0.446 | 0.369 | 0.386 | 0.399 | 6.97 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | 0.264 | 0.291 | 0.287 | 0.320 | 0.276 | 0.284 | 0.287 | 6.58 |
| 36) | T | 1,1-Dichloropr... | 0.405 | 0.412 | 0.404 | 0.412 | 0.361 | 0.410 | 0.401 | 4.87 |
| 37) | T | Ethyl Acetate | 0.137 | 0.169 | 0.179 | 0.164 | 0.132 | 0.153 | 0.155 | 11.88 |
| 38) | T | Carbon Tetrach... | 0.479 | 0.502 | 0.487 | 0.493 | 0.438 | 0.500 | 0.483 | 4.90 |
| 39) | T | Methylcyclohexane | 0.524 | 0.553 | 0.545 | 0.559 | 0.502 | 0.572 | 0.543 | 4.66 |
| 40) | TM | Benzene | 1.156 | 1.234 | 1.197 | 1.202 | 1.061 | 1.205 | 1.176 | 5.22 |
| 41) | T | Methacrylonitrile | 0.064 | 0.078 | 0.096 | 0.092 | 0.069 | 0.094 | 0.082 | 16.79 |
| 42) | TM | 1,2-Dichloroet... | 0.281 | 0.302 | 0.307 | 0.305 | 0.262 | 0.300 | 0.293 | 6.08 |
| 43) | T | Isopropyl Acetate | 0.236 | 0.301 | 0.327 | 0.318 | 0.270 | 0.317 | 0.295 | 12.01 |
| 44) | TM | Trichloroethene | 0.309 | 0.336 | 0.326 | 0.322 | 0.290 | 0.332 | 0.319 | 5.31 |
| 45) | C | 1,2-Dichloropr... | 0.246 | 0.270 | 0.267 | 0.268 | 0.236 | 0.270 | 0.260 | 5.76# |
| 46) | T | Dibromomethane | 0.132 | 0.155 | 0.155 | 0.156 | 0.134 | 0.153 | 0.148 | 7.64 |
| 47) | T | Bromodichlorom... | 0.371 | 0.412 | 0.398 | 0.406 | 0.358 | 0.411 | 0.393 | 5.84 |
| 48) | T | Methyl methacr... | 0.111 | 0.141 | 0.154 | 0.149 | 0.130 | 0.150 | 0.139 | 11.77 |
| 49) | T | 1,4-Dioxane | 0.001 | 0.002 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 11.75 |
| 50) | S | Toluene-d8 | 0.981 | 1.135 | 1.121 | 1.254 | 1.081 | 1.109 | 1.113 | 7.93 |
| 51) | T | 4-Methyl-2-Pen... | 0.120 | 0.152 | 0.170 | 0.162 | 0.132 | 0.155 | 0.149 | 12.68 |
| 52) | CM | Toluene | 0.722 | 0.786 | 0.774 | 0.779 | 0.692 | 0.785 | 0.756 | 5.24# |
| 53) | T | t-1,3-Dichloro... | 0.312 | 0.365 | 0.381 | 0.379 | 0.336 | 0.387 | 0.360 | 8.25 |
| 54) | T | cis-1,3-Dichlo... | 0.399 | 0.436 | 0.446 | 0.446 | 0.396 | 0.455 | 0.430 | 6.03 |
| 55) | T | 1,1,2-Trichlor... | 0.189 | 0.201 | 0.217 | 0.207 | 0.179 | 0.205 | 0.199 | 6.87 |
| 56) | T | Ethyl methacry... | 0.196 | 0.251 | 0.291 | 0.286 | 0.251 | 0.294 | 0.261 | 14.36 |

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y012425S.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.312 | 0.351 | 0.364 | 0.353 | 0.305 | 0.348 | 0.339 | 7.18 |
| 58) | T | 2-Chloroethyl ... | 0.085 | 0.119 | 0.131 | 0.125 | 0.119 | 0.132 | 0.119 | 14.56 |
| 59) | T | 2-Hexanone | 0.070 | 0.096 | 0.110 | 0.106 | 0.089 | 0.103 | 0.096 | 15.42 |
| 60) | T | Dibromochlorom... | 0.257 | 0.289 | 0.296 | 0.290 | 0.257 | 0.296 | 0.281 | 6.71 |
| 61) | T | 1,2-Dibromoethane | 0.174 | 0.200 | 0.203 | 0.199 | 0.169 | 0.198 | 0.191 | 7.80 |
| 62) | S | 4-Bromofluorob... | 0.319 | 0.375 | 0.390 | 0.416 | 0.359 | 0.364 | 0.371 | 8.82 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.358 | 0.361 | 0.348 | 0.352 | 0.312 | 0.358 | 0.348 | 5.26 |
| 65) | PM | Chlorobenzene | 0.972 | 1.019 | 0.991 | 0.992 | 0.881 | 1.012 | 0.978 | 5.11 |
| 66) | T | 1,1,1,2-Tetrac... | 0.342 | 0.363 | 0.358 | 0.355 | 0.310 | 0.357 | 0.347 | 5.60 |
| 67) | C | Ethyl Benzene | 1.650 | 1.762 | 1.722 | 1.761 | 1.565 | 1.777 | 1.706 | 4.86# |
| 68) | T | m/p-Xylenes | 0.627 | 0.677 | 0.667 | 0.674 | 0.596 | 0.679 | 0.653 | 5.23 |
| 69) | T | o-Xylene | 0.583 | 0.634 | 0.619 | 0.632 | 0.559 | 0.635 | 0.610 | 5.26 |
| 70) | T | Styrene | 0.899 | 1.043 | 1.027 | 1.054 | 0.926 | 1.051 | 1.000 | 6.89 |
| 71) | P | Bromoform | 0.178 | 0.203 | 0.213 | 0.208 | 0.177 | 0.202 | 0.197 | 7.90 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 3.394 | 3.496 | 3.423 | 3.562 | 3.149 | 3.639 | 3.444 | 4.93 |
| 74) | T | N-amyl acetate | 0.467 | 0.593 | 0.663 | 0.675 | 0.584 | 0.695 | 0.613 | 13.72 |
| 75) | P | 1,1,2,2-Tetrac... | 0.485 | 0.566 | 0.577 | 0.570 | 0.469 | 0.548 | 0.536 | 8.76 |
| 76) | T | 1,2,3-Trichlor... | 0.292 | 0.353 | 0.436 | 0.395 | 0.304 | 0.342 | 0.354 | 15.42 |
| 77) | T | Bromobenzene | 0.796 | 0.838 | 0.799 | 0.831 | 0.727 | 0.853 | 0.807 | 5.61 |
| 78) | T | n-propylbenzene | 3.972 | 4.121 | 3.960 | 4.186 | 3.651 | 4.179 | 4.011 | 5.05 |
| 79) | T | 2-Chlorotoluene | 2.271 | 2.377 | 2.242 | 2.324 | 2.064 | 2.373 | 2.275 | 5.13 |
| 80) | T | 1,3,5-Trimethy... | 2.683 | 2.881 | 2.780 | 2.863 | 2.517 | 2.878 | 2.767 | 5.22 |
| 81) | T | trans-1,4-Dich... | 0.137 | 0.194 | 0.195 | 0.199 | 0.171 | 0.202 | 0.183 | 13.66 |
| 82) | T | 4-Chlorotoluene | 2.309 | 2.416 | 2.357 | 2.398 | 2.073 | 2.386 | 2.323 | 5.52 |
| 83) | T | tert-Butylbenzene | 2.499 | 2.603 | 2.542 | 2.696 | 2.328 | 2.646 | 2.552 | 5.12 |
| 84) | T | 1,2,4-Trimethy... | 2.598 | 2.831 | 2.747 | 2.830 | 2.481 | 2.857 | 2.724 | 5.58 |
| 85) | T | sec-Butylbenzene | 3.555 | 3.776 | 3.640 | 3.745 | 3.322 | 3.796 | 3.639 | 4.95 |
| 86) | T | p-Isopropyltol... | 2.958 | 3.166 | 3.093 | 3.194 | 2.821 | 3.214 | 3.074 | 5.05 |
| 87) | T | 1,3-Dichlorobe... | 1.540 | 1.638 | 1.554 | 1.588 | 1.371 | 1.583 | 1.546 | 5.95 |
| 88) | T | 1,4-Dichlorobe... | 1.544 | 1.602 | 1.523 | 1.555 | 1.334 | 1.553 | 1.518 | 6.20 |
| 89) | T | n-Butylbenzene | 2.563 | 2.738 | 2.701 | 2.849 | 2.536 | 2.882 | 2.712 | 5.25 |
| 90) | T | Hexachloroethane | 0.613 | 0.626 | 0.581 | 0.624 | 0.565 | 0.654 | 0.611 | 5.30 |
| 91) | T | 1,2-Dichlorobe... | 1.335 | 1.408 | 1.346 | 1.386 | 1.182 | 1.378 | 1.339 | 6.10 |
| 92) | T | 1,2-Dibromo-3-... | 0.069 | 0.083 | 0.090 | 0.085 | 0.070 | 0.086 | 0.080 | 10.92 |
| 93) | T | 1,2,4-Trichlor... | 0.697 | 0.786 | 0.792 | 0.840 | 0.782 | 0.938 | 0.806 | 9.87 |
| 94) | T | Hexachlorobuta... | 0.560 | 0.554 | 0.528 | 0.560 | 0.513 | 0.592 | 0.551 | 5.02 |
| 95) | T | Naphthalene | 0.970 | 1.182 | 1.304 | 1.397 | 1.282 | 1.616 | 1.292 | 16.68 |
| 96) | T | 1,2,3-Trichlor... | 0.589 | 0.648 | 0.672 | 0.704 | 0.651 | 0.797 | 0.677 | 10.34 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020927.D
Acq On : 24 Jan 2025 14:03
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 25 00:46:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**
Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 260373 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.628 | 114 | 380285 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 323123 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.358 | 152 | 154661 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 116198 | 55.973 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 111.940% | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 121777 | 55.780 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 111.560% | | | |
| 50) Toluene-d8 | 10.115 | 98 | 476904 | 56.318 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 112.640% | | | |
| 62) 4-Bromofluorobenzene | 12.413 | 95 | 158312 | 56.174 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 112.340% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 99976 | 50.766 | ug/l | 100 |
| 3) Chloromethane | 2.080 | 50 | 73241 | 50.003 | ug/l | 100 |
| 4) Vinyl Chloride | 2.214 | 62 | 81414 | 50.999 | ug/l | 100 |
| 5) Bromomethane | 2.610 | 94 | 51863 | 47.966 | ug/l | 100 |
| 6) Chloroethane | 2.751 | 64 | 48223 | 51.489 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 173154 | 51.051 | ug/l | 100 |
| 8) Diethyl Ether | 3.464 | 74 | 53864 | 51.671 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 113519 | 50.724 | ug/l | 100 |
| 10) Methyl Iodide | 4.019 | 142 | 141998 | 53.240 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.872 | 59 | 34546 | 215.565 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.805 | 96 | 106149 | 50.224 | ug/l | 100 |
| 13) Acrolein | 3.665 | 56 | 59929 | 275.847 | ug/l | 100 |
| 14) Allyl chloride | 4.403 | 41 | 151011 | 51.192 | ug/l | 100 |
| 15) Acrylonitrile | 5.073 | 53 | 110385 | 269.385 | ug/l | 100 |
| 16) Acetone | 3.885 | 43 | 74928 | 266.392 | ug/l | 100 |
| 17) Carbon Disulfide | 4.122 | 76 | 332364 | 50.921 | ug/l | 100 |
| 18) Methyl Acetate | 4.397 | 43 | 54236 | 53.378 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.134 | 73 | 254333 | 51.955 | ug/l | 100 |
| 20) Methylene Chloride | 4.634 | 84 | 105101 | 50.243 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.134 | 96 | 116008 | 50.909 | ug/l | 100 |
| 22) Diisopropyl ether | 6.037 | 45 | 309202 | 52.110 | ug/l | 100 |
| 23) Vinyl Acetate | 5.976 | 43 | 884051 | 269.205 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.933 | 63 | 192614 | 51.209 | ug/l | 100 |
| 25) 2-Butanone | 6.908 | 43 | 126367 | 265.225 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.902 | 77 | 182433 | 49.242 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.908 | 96 | 130529 | 50.755 | ug/l | 100 |
| 28) Bromochloromethane | 7.262 | 49 | 77526 | 51.213 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.274 | 42 | 86947 | 273.818 | ug/l | 100 |
| 30) Chloroform | 7.439 | 83 | 202326 | 50.824 | ug/l | 100 |
| 31) Cyclohexane | 7.713 | 56 | 177176 | 47.927 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.634 | 97 | 196472 | 50.881 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 156517 | 51.349 | ug/l | 100 |
| 37) Ethyl Acetate | 7.000 | 43 | 62290 | 52.672 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 187340 | 50.965 | ug/l | 100 |
| 39) Methylcyclohexane | 9.121 | 83 | 212455 | 51.485 | ug/l | 100 |
| 40) Benzene | 8.091 | 78 | 457148 | 51.122 | ug/l | 100 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020927.D
Acq On : 24 Jan 2025 14:03
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 25 00:46:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**
Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.238 | 41 | 34901 | 55.867 ug/l | 100 |
| 42) 1,2-Dichloroethane | 8.170 | 62 | 115831 | 52.057 ug/l | 100 |
| 43) Isopropyl Acetate | 8.207 | 43 | 121114 | 54.008 ug/l | 100 |
| 44) Trichloroethene | 8.878 | 130 | 122503 | 50.426 ug/l | 100 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 101972 | 51.660 ug/l | 100 |
| 46) Dibromomethane | 9.243 | 93 | 59402 | 52.935 ug/l | 100 |
| 47) Bromodichloromethane | 9.432 | 83 | 154264 | 51.665 ug/l | 100 |
| 48) Methyl methacrylate | 9.231 | 41 | 56489 | 53.400 ug/l | 100 |
| 49) 1,4-Dioxane | 9.237 | 88 | 12806 | 1108.338 ug/l | 100 |
| 51) 4-Methyl-2-Pentanone | 10.005 | 43 | 308643 | 272.957 ug/l | 100 |
| 52) Toluene | 10.182 | 92 | 296074 | 51.481 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 143953 | 52.581 ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 169737 | 51.923 ug/l | 100 |
| 55) 1,1,2-Trichloroethane | 10.585 | 97 | 78640 | 51.844 ug/l | 100 |
| 56) Ethyl methacrylate | 10.450 | 69 | 108592 | 54.625 ug/l | 100 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 134252 | 52.099 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 237122 | 262.808 ug/l | 100 |
| 59) 2-Hexanone | 10.767 | 43 | 202107 | 277.962 ug/l | 100 |
| 60) Dibromochloromethane | 10.920 | 129 | 110167 | 51.604 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.023 | 107 | 75786 | 52.236 ug/l | 100 |
| 64) Tetrachloroethene | 10.658 | 164 | 113672 | 50.551 ug/l | 100 |
| 65) Chlorobenzene | 11.450 | 112 | 320506 | 50.723 ug/l | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.523 | 131 | 114751 | 51.106 ug/l | 100 |
| 67) Ethyl Benzene | 11.529 | 91 | 569041 | 51.610 ug/l | 100 |
| 68) m/p-Xylenes | 11.639 | 106 | 435667 | 103.192 ug/l | 100 |
| 69) o-Xylene | 11.962 | 106 | 204123 | 51.760 ug/l | 100 |
| 70) Styrene | 11.981 | 104 | 340665 | 52.709 ug/l | 100 |
| 71) Bromoform | 12.139 | 173 | 67211 | 52.862 ug/l # | 100 |
| 73) Isopropylbenzene | 12.267 | 105 | 550837 | 51.713 ug/l | 100 |
| 74) N-amyl acetate | 12.078 | 43 | 104331 | 55.044 ug/l | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.517 | 83 | 88149 | 53.188 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.566 | 75 | 61067m | 55.845 ug/l | |
| 77) Bromobenzene | 12.541 | 156 | 128502 | 51.465 ug/l | 100 |
| 78) n-propylbenzene | 12.602 | 91 | 647351 | 52.174 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 359489 | 51.084 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.749 | 105 | 442823 | 51.738 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.316 | 75 | 30765 | 54.355 ug/l | 100 |
| 82) 4-Chlorotoluene | 12.785 | 91 | 370813 | 51.602 ug/l | 100 |
| 83) tert-Butylbenzene | 13.011 | 119 | 417004 | 52.822 ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.054 | 105 | 437648 | 51.941 ug/l | 100 |
| 85) sec-Butylbenzene | 13.188 | 105 | 579136 | 51.453 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.304 | 119 | 493959 | 51.945 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.297 | 146 | 245598 | 51.366 ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 240422 | 51.189 ug/l | 100 |
| 89) n-Butylbenzene | 13.627 | 91 | 440634 | 52.532 ug/l | 100 |
| 90) Hexachloroethane | 13.889 | 117 | 96557 | 51.115 ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 13.669 | 146 | 214385 | 51.753 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 13070 | 52.496 ug/l | 100 |
| 93) 1,2,4-Trichlorobenzene | 14.931 | 180 | 129845 | 52.105 ug/l | 100 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 86640 | 50.816 ug/l | 100 |
| 95) Naphthalene | 15.157 | 128 | 216001 | 54.053 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 108849 | 51.991 ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020927.D
Acq On : 24 Jan 2025 14:03
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Quant Time: Jan 25 00:46:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

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

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

Quantitation Report (QT Reviewed)

ICAL Form

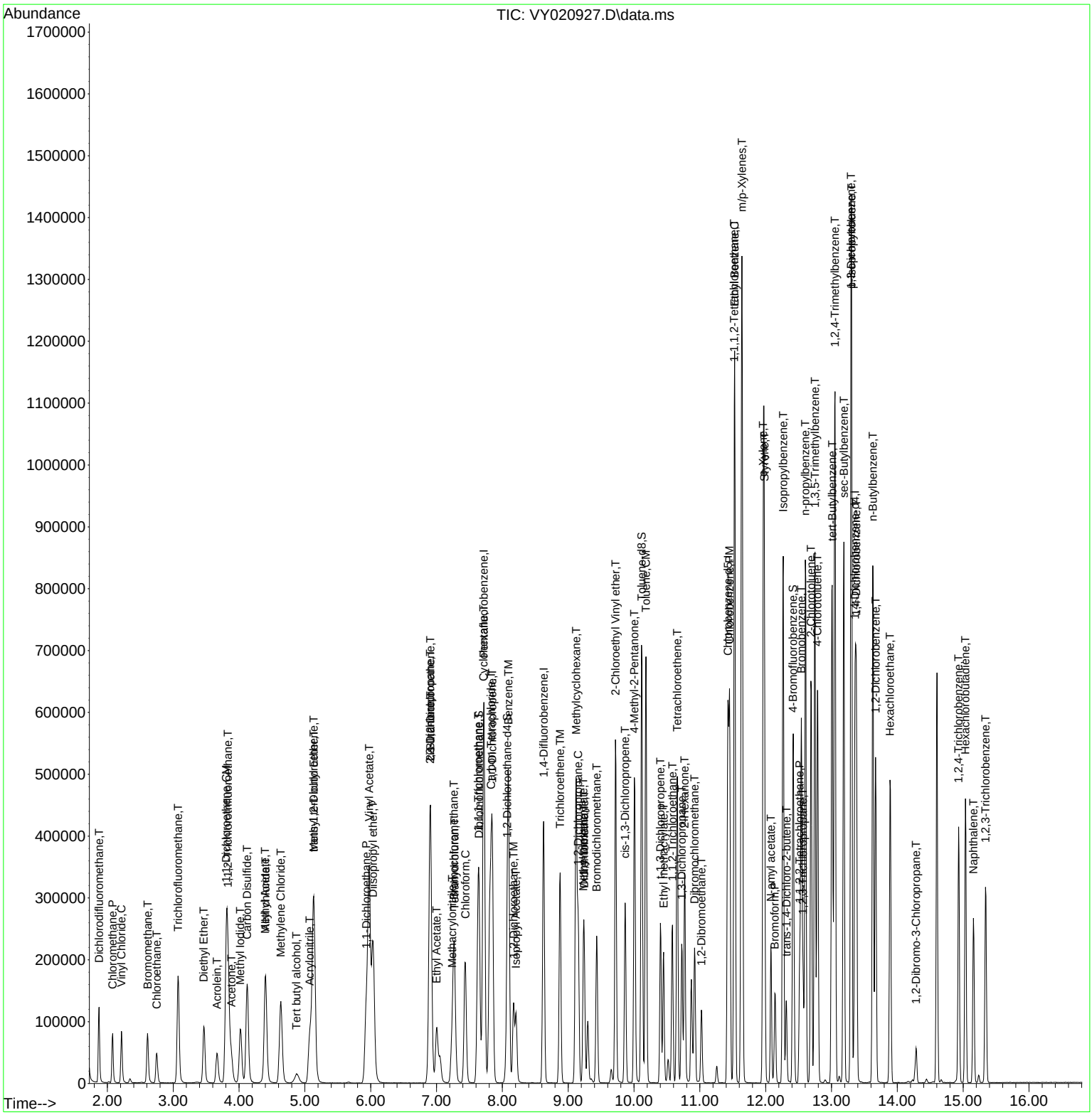
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020927.D
Acq On : 24 Jan 2025 14:03
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

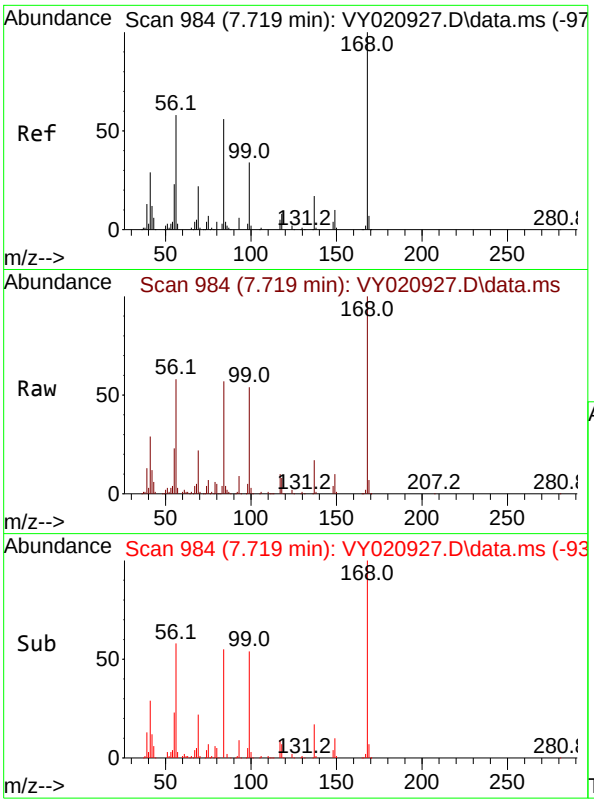
Quant Time: Jan 25 00:46:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

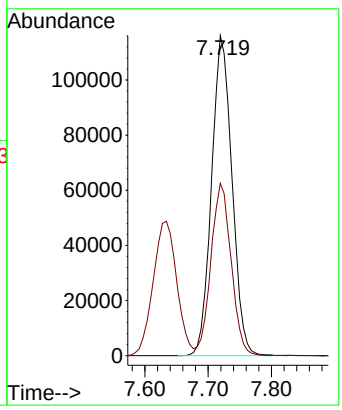
Tgt Ion:168 Resp: 26037

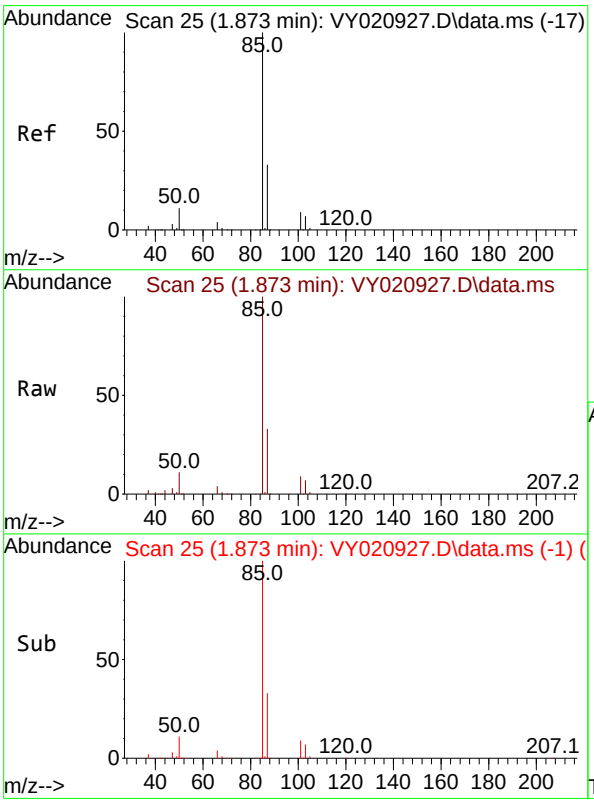
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.8 | 43.0 | 64.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

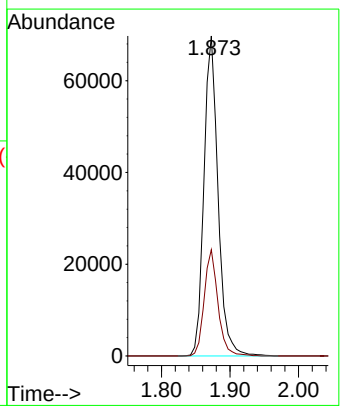


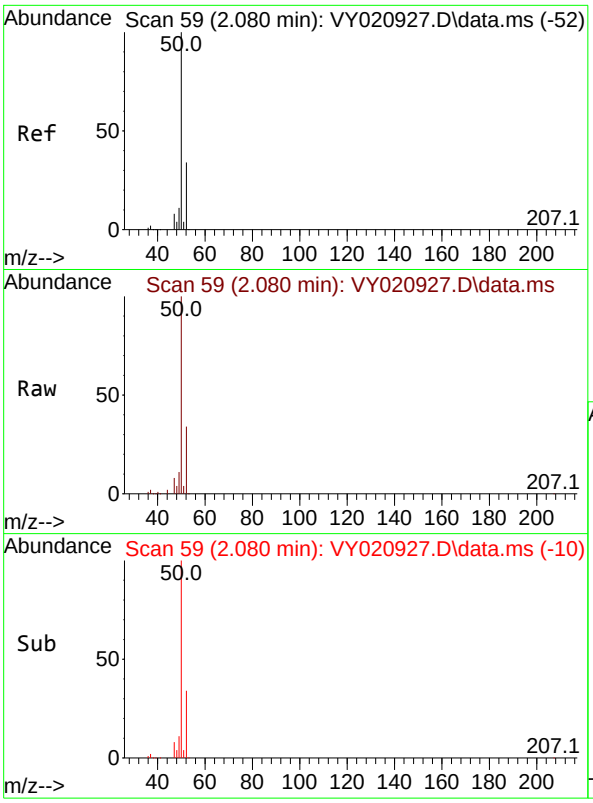




#2
Dichlorodifluoromethane
Concen: 50.766 ug/l
RT: 1.873 min Scan# 25
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 85 Resp: 99976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.2 | 16.6 | 49.8 |






#3
Chloromethane
Concen: 50.003 ug/l
RT: 2.080 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

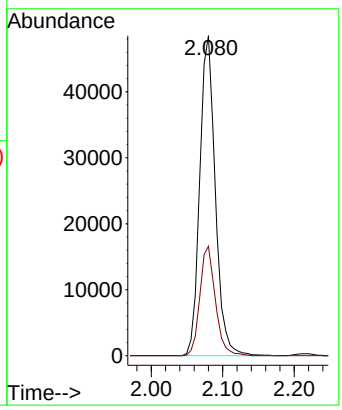
Tgt Ion: 50 Resp: 7324

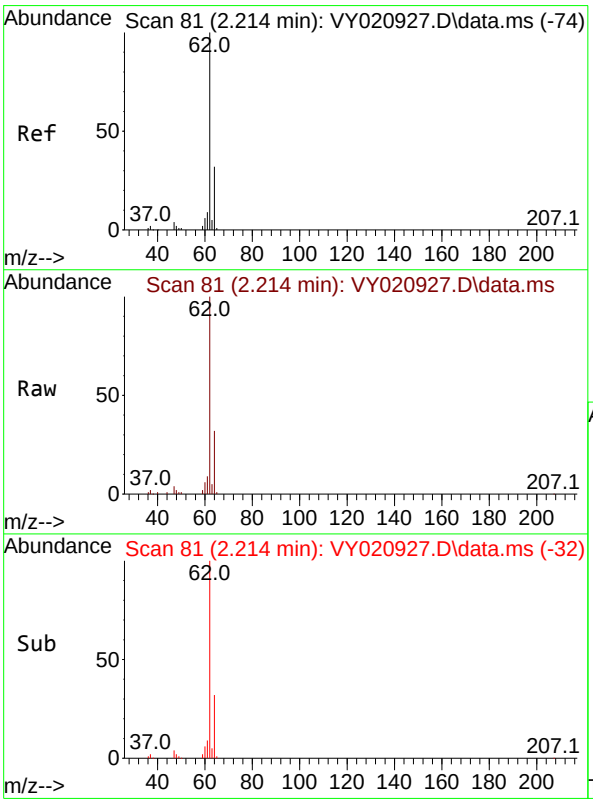
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.2 | 27.4 | 41.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

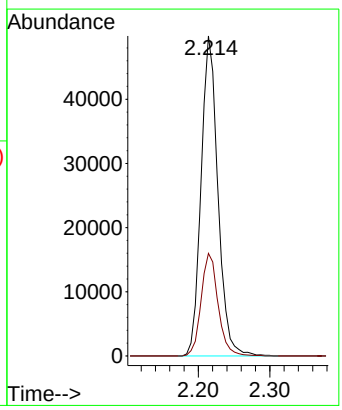


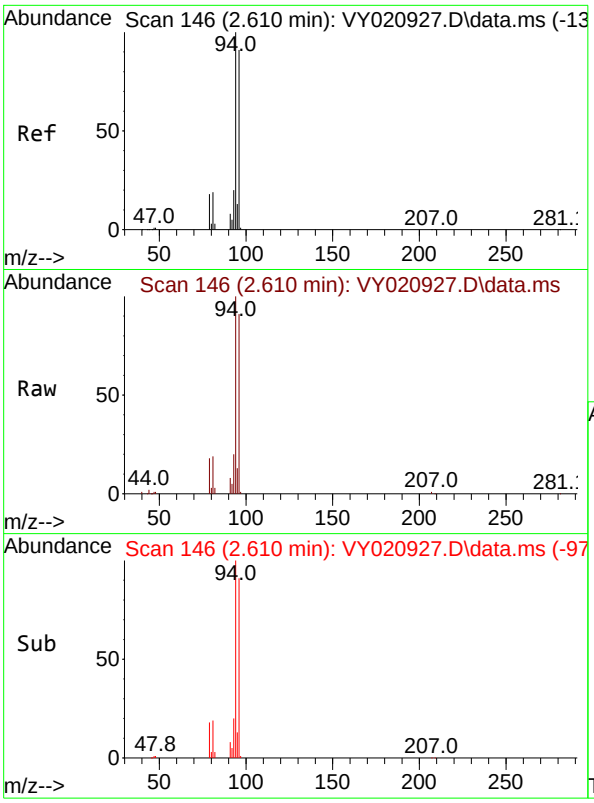




#4
Vinyl Chloride
Concen: 50.999 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 62 Resp: 81414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.1 | 25.7 | 38.5 |






#5
Bromomethane
Concen: 47.966 ug/l
RT: 2.610 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

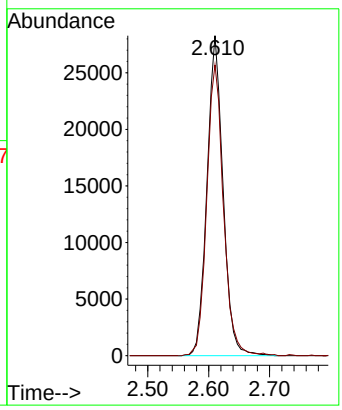
Tgt Ion: 94 Resp: 5186

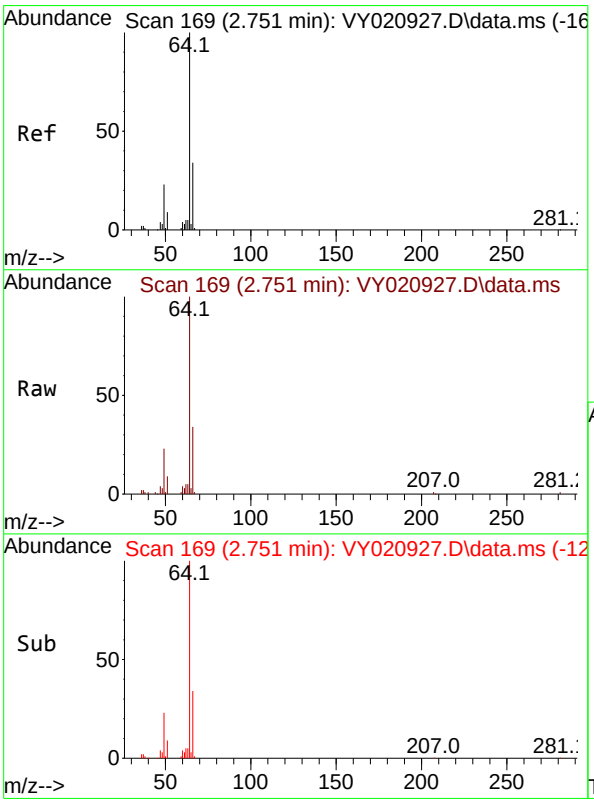
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 90.8 | 72.6 | 109.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

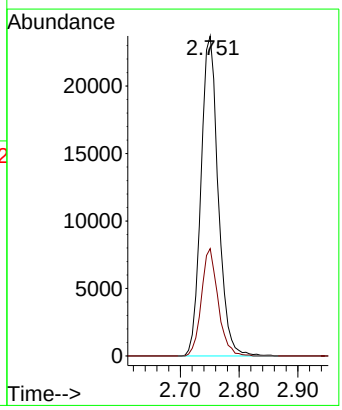


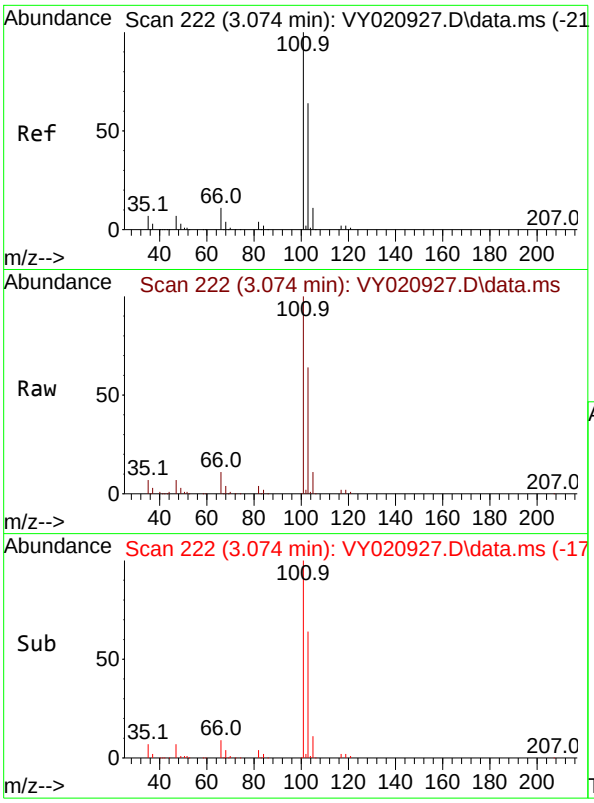




#6
Chloroethane
Concen: 51.489 ug/l
RT: 2.751 min Scan# 169
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 64 Resp: 48223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.6 | 26.9 | 40.3 |






#7
Trichlorofluoromethane
Concen: 51.051 ug/l
RT: 3.074 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

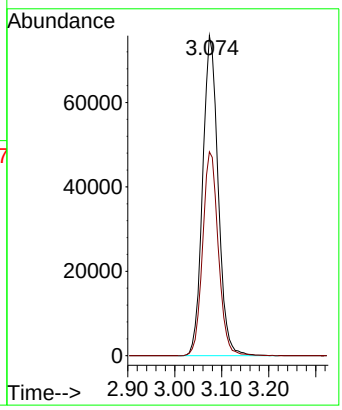
Tgt Ion:101 Resp: 17315

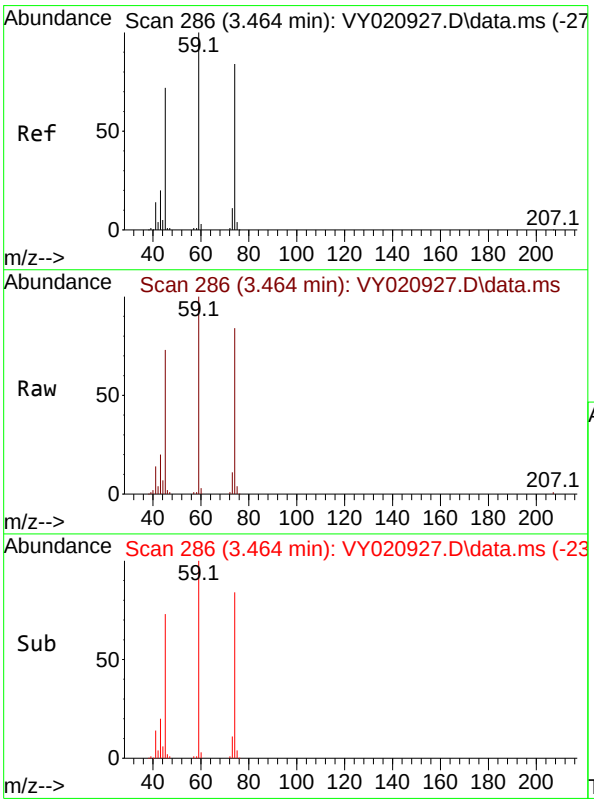
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.7 | 51.0 | 76.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

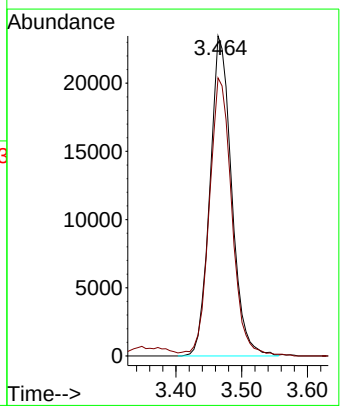


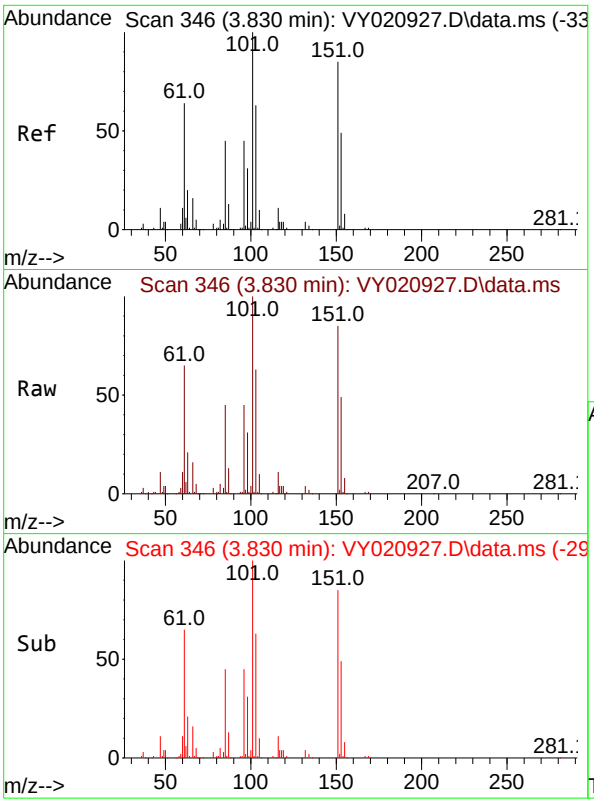




#8
Diethyl Ether
Concen: 51.671 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 74 Resp: 53864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.1 | 45.1 | 135.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.724 ug/l
RT: 3.830 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

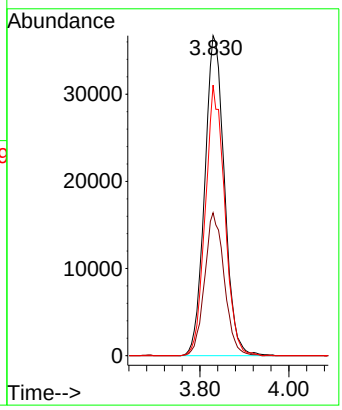
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

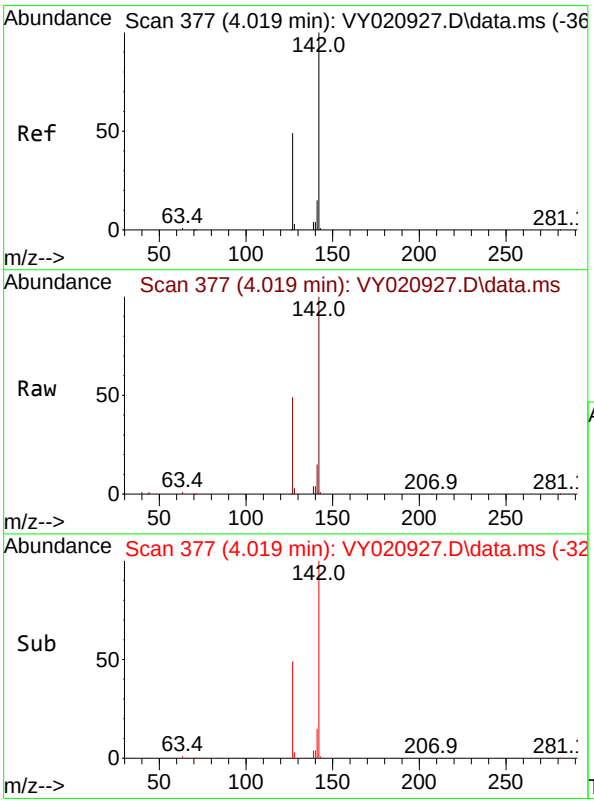
Tgt Ion:101 Resp: 113519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.3 | 35.4 | 53.2 |
| 151 | 82.9 | 66.3 | 99.5 |

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

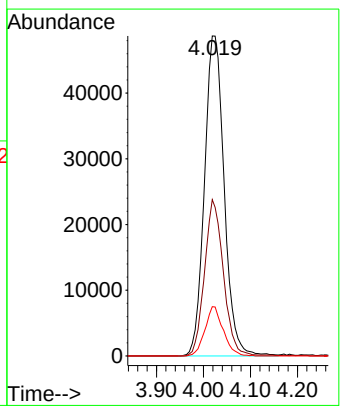


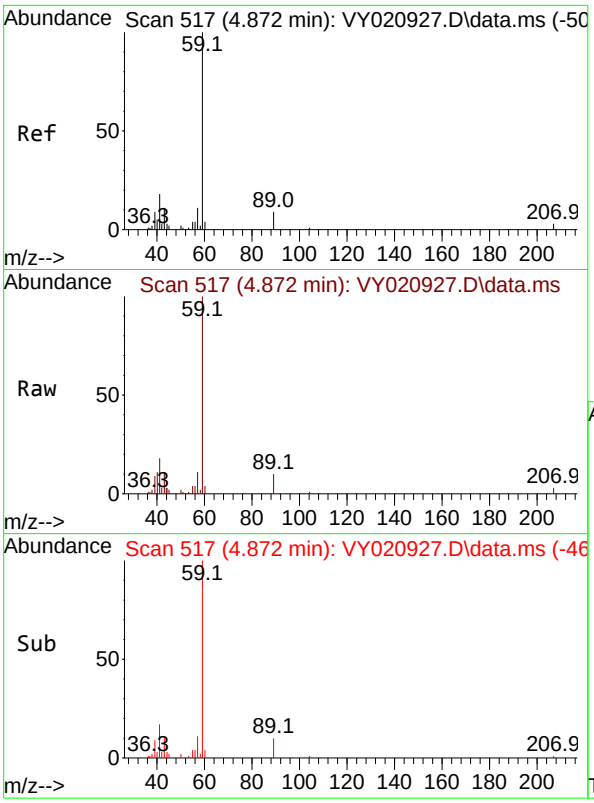




#10
Methyl Iodide
Concen: 53.240 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:142 Resp: 141998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.6 | 37.3 | 55.9 |
| 141 | 14.3 | 11.4 | 17.2 |






#11
Tert butyl alcohol
Concen: 215.565 ug/l
RT: 4.872 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

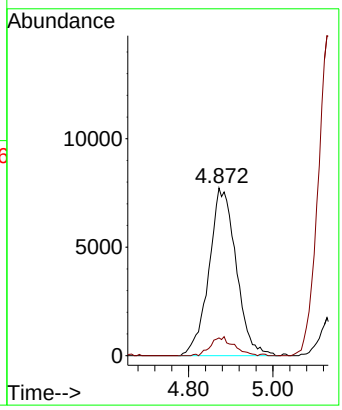
Tgt Ion: 59 Resp: 3454

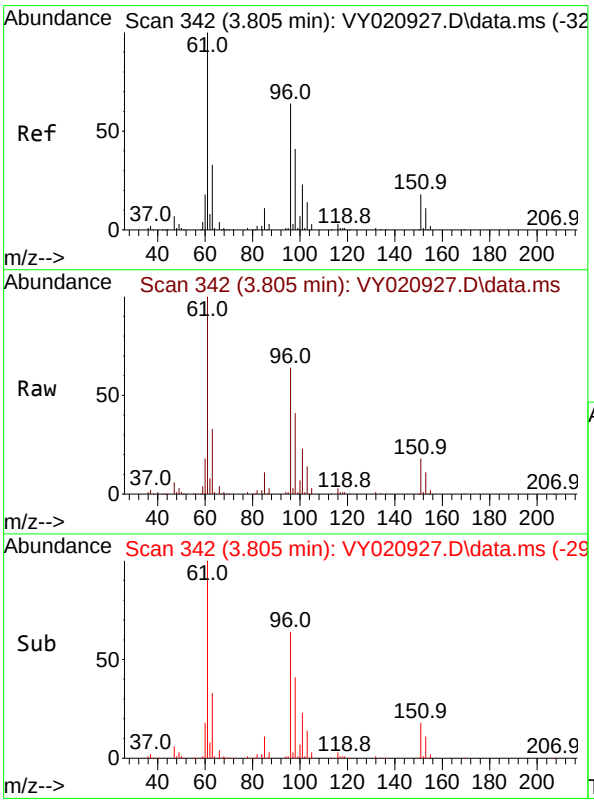
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.6 | 7.7 | 11.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

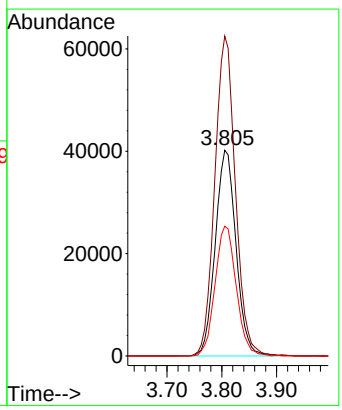


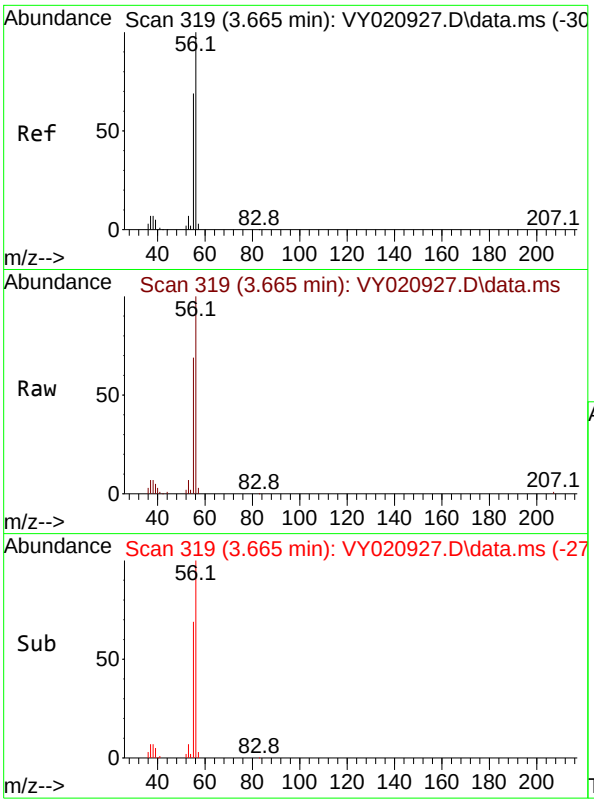




#12
1,1-Dichloroethene
Concen: 50.224 ug/l
RT: 3.805 min Scan# 342
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 96 Resp: 106149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 155.6 | 124.5 | 186.7 |
| 98 | 63.1 | 50.5 | 75.7 |






#13
Acrolein
Concen: 275.847 ug/l
RT: 3.665 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

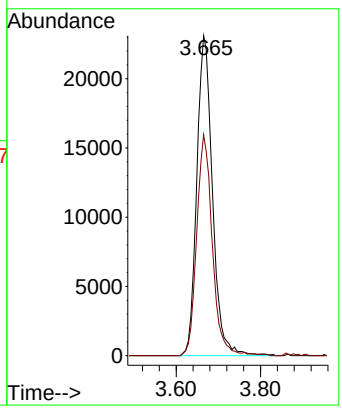
Tgt Ion: 56 Resp: 5992

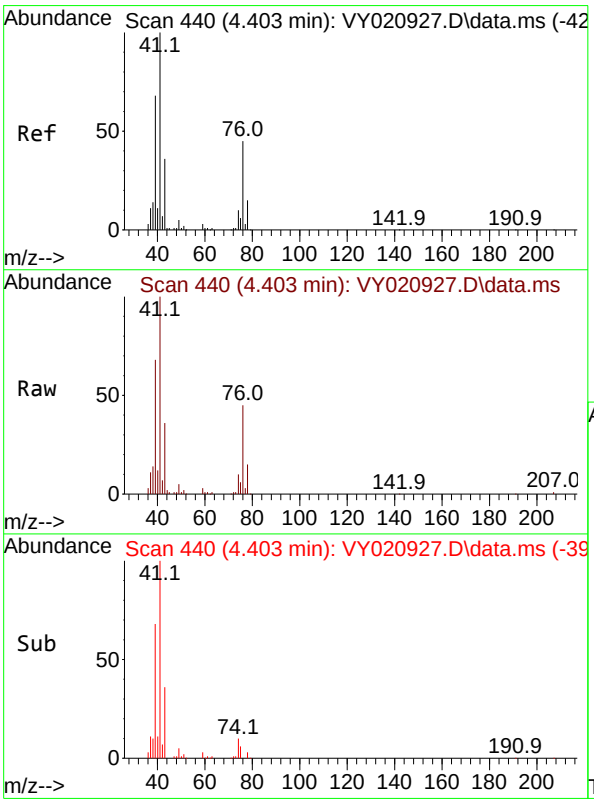
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.2 | 54.6 | 81.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

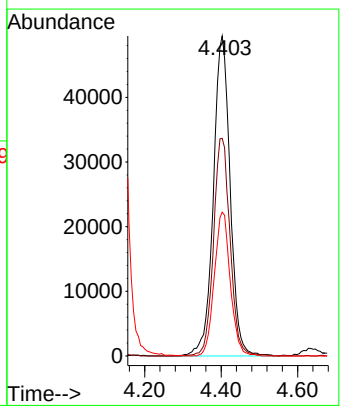


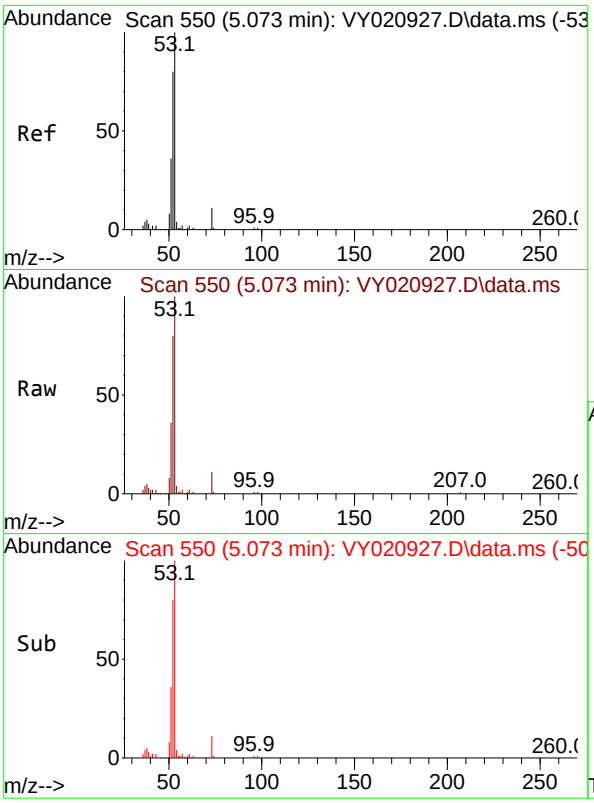




#14
Allyl chloride
Concen: 51.192 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 41 Resp: 151011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.2 | 53.8 | 80.6 |
| 76 | 42.8 | 34.2 | 51.4 |






#15
Acrylonitrile
Concen: 269.385 ug/l
RT: 5.073 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

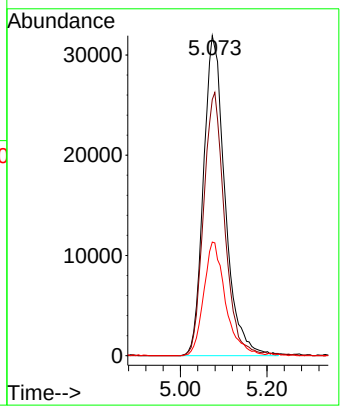
Tgt Ion: 53 Resp: 11038

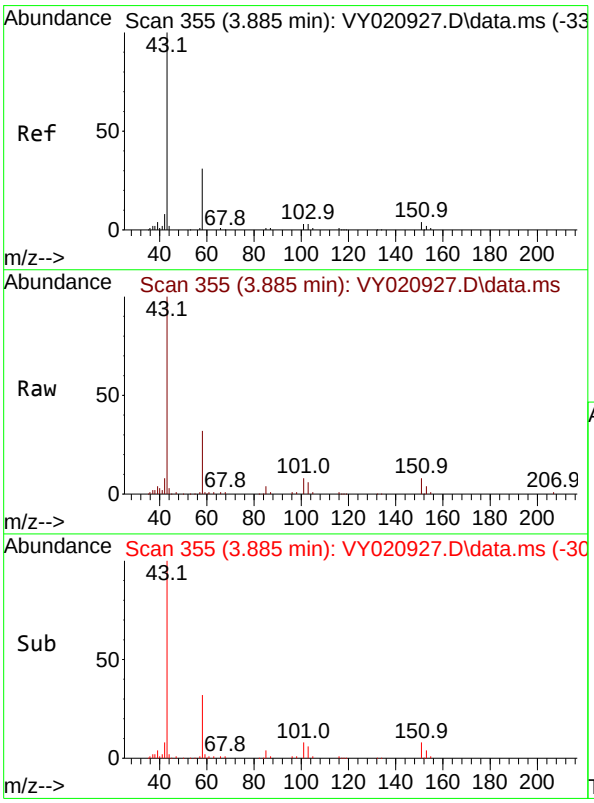
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.6 | 64.5 | 96.7 |
| 51 | 36.1 | 28.9 | 43.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

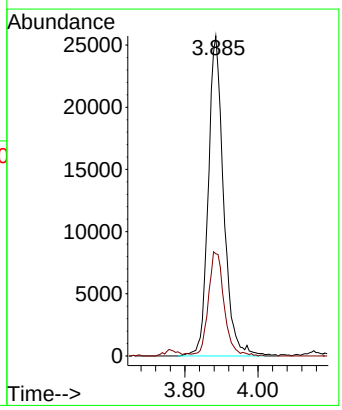


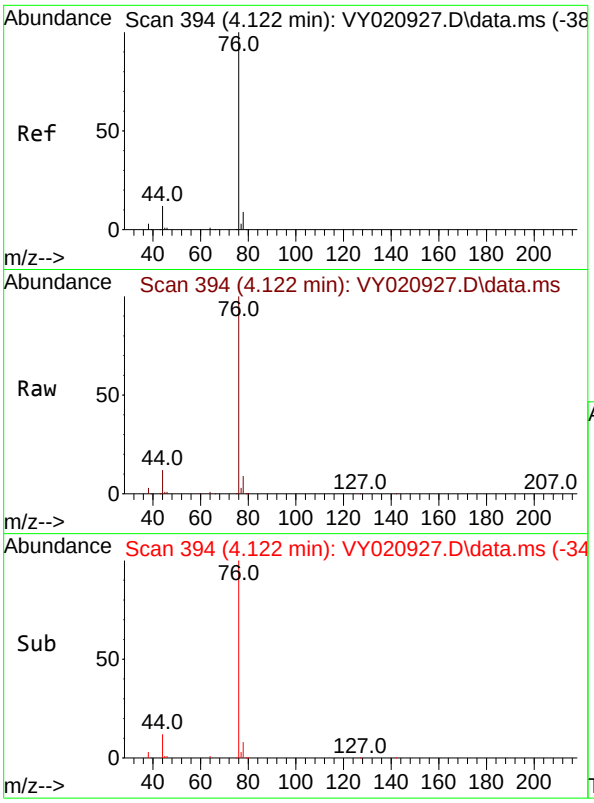




#16
Acetone
Concen: 266.392 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 43 Resp: 74928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.0 | 25.6 | 38.4 |






#17
Carbon Disulfide
Concen: 50.921 ug/l
RT: 4.122 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

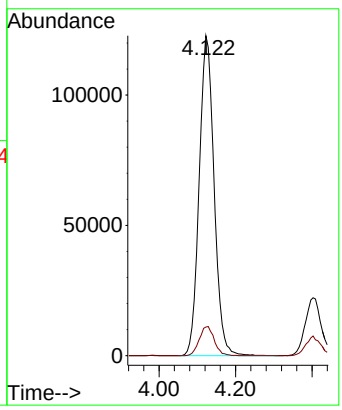
Tgt Ion: 76 Resp: 33236

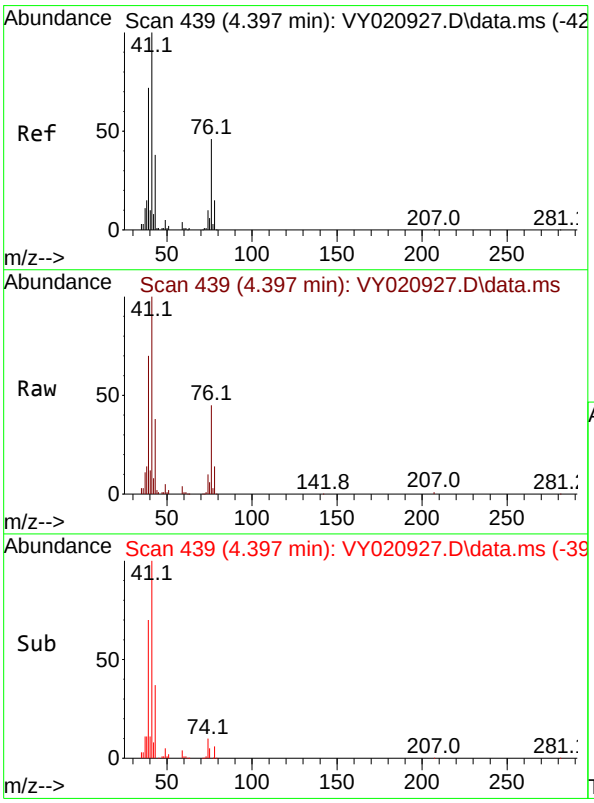
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.2 | 10.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

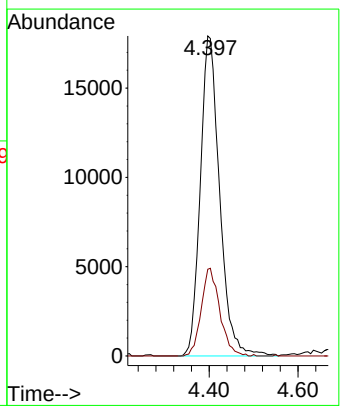


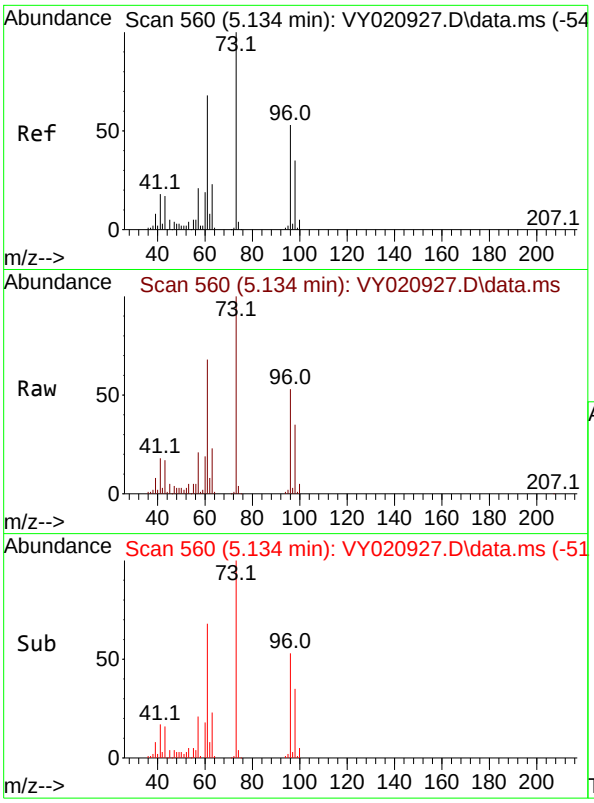




#18
Methyl Acetate
Concen: 53.378 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 43 Resp: 54236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.3 | 21.0 | 31.6 |






#19
Methyl tert-butyl Ether
Concen: 51.955 ug/l
RT: 5.134 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

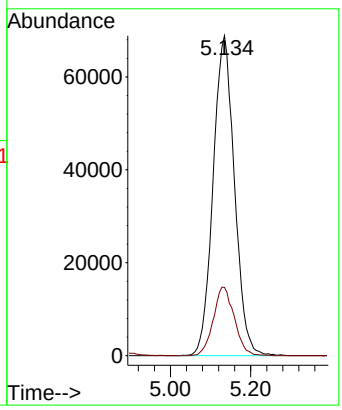
Tgt Ion: 73 Resp: 25433

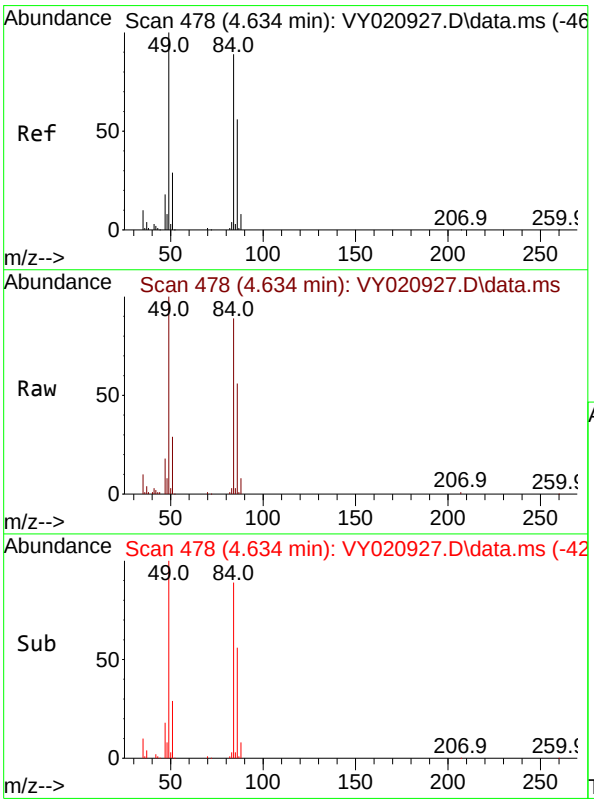
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.3 | 17.0 | 25.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

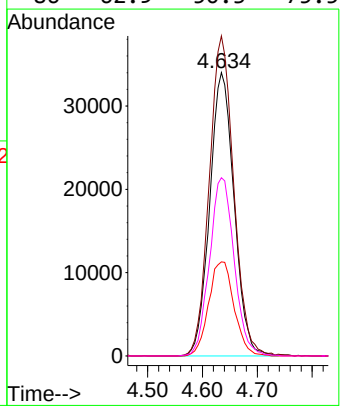


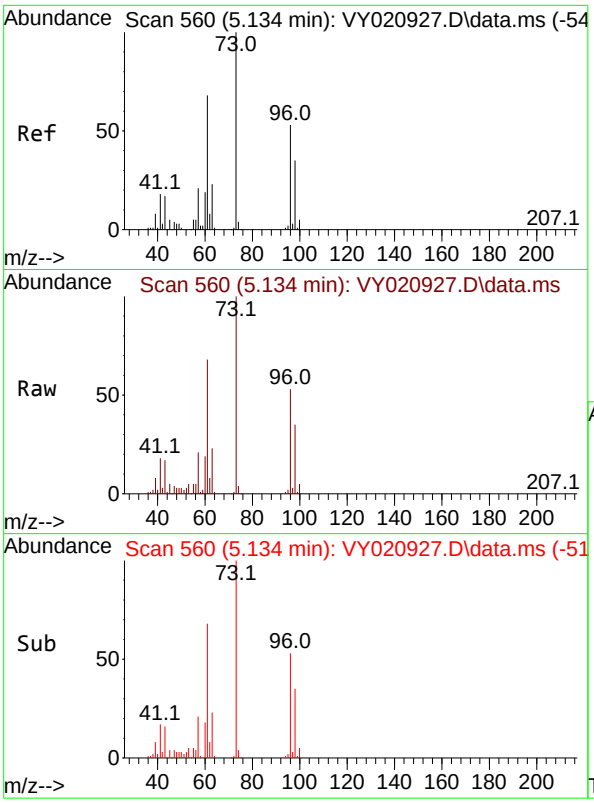




#20
Methylene Chloride
Concen: 50.243 ug/l
RT: 4.634 min Scan# 478
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 84 Resp: 105101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 112.9 | 90.3 | 135.5 |
| 51 | 33.2 | 26.6 | 39.8 |
| 86 | 62.9 | 50.3 | 75.5 |






#21
trans-1,2-Dichloroethene
Concen: 50.909 ug/l
RT: 5.134 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

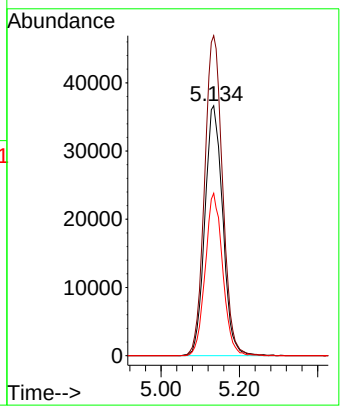
Tgt Ion: 96 Resp: 116008

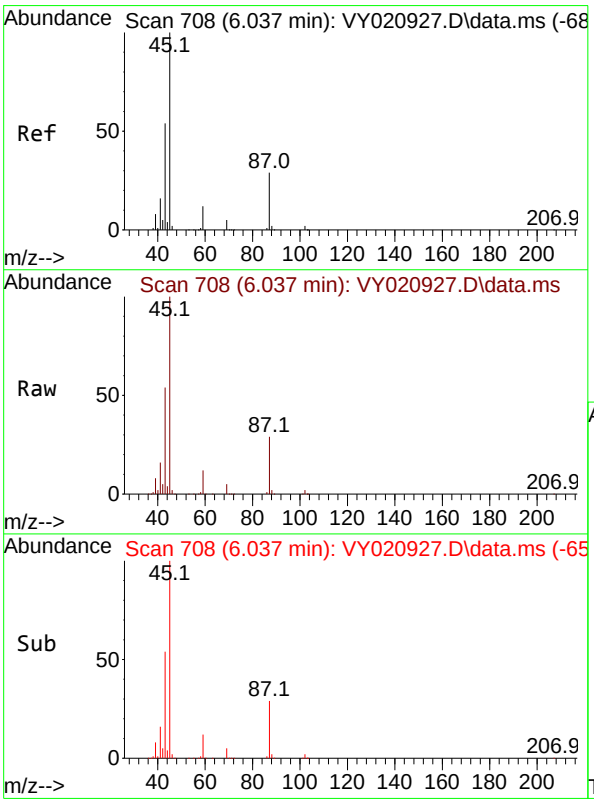
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 128.0 | 102.4 | 153.6 |
| 98 | 65.0 | 52.0 | 78.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

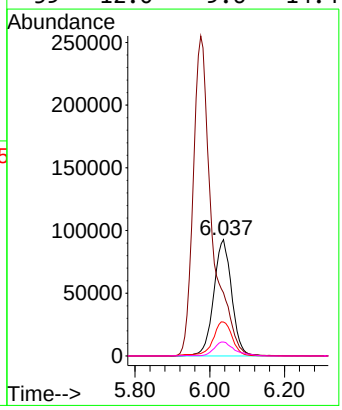


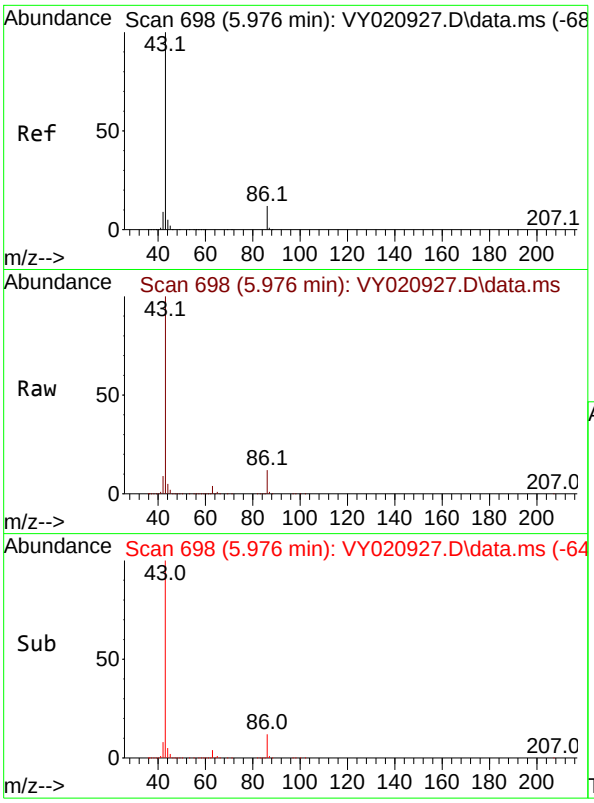




#22
Diisopropyl ether
Concen: 52.110 ug/l
RT: 6.037 min Scan# 708
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 45 Resp: 309202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 54.0 | 43.2 | 64.8 |
| 87 | 29.2 | 23.4 | 35.0 |
| 59 | 12.0 | 9.6 | 14.4 |






#23
Vinyl Acetate
Concen: 269.205 ug/l
RT: 5.976 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

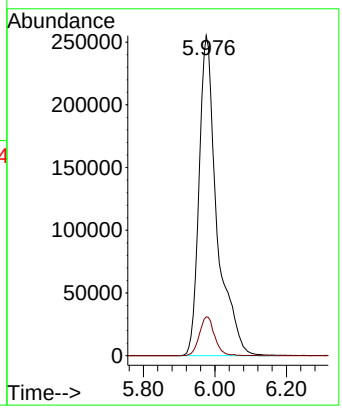
Tgt Ion: 43 Resp: 88405

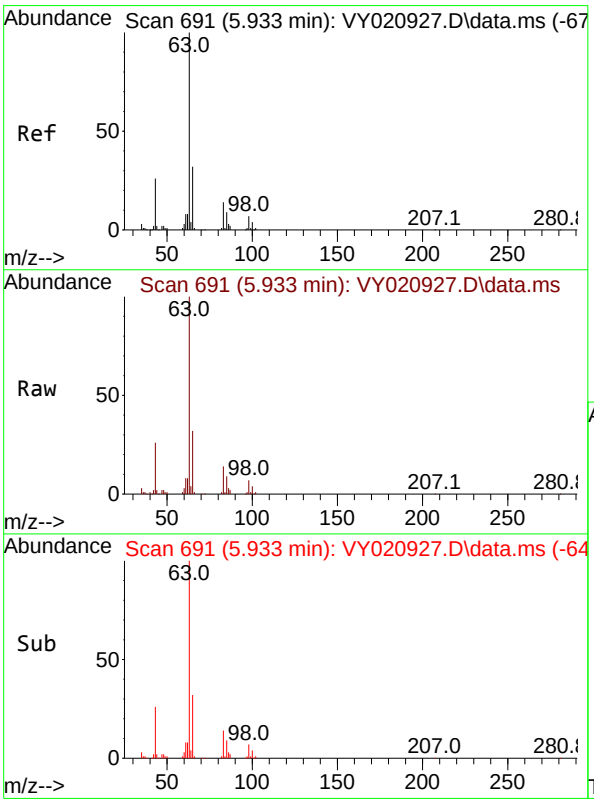
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.2 | 9.8 | 14.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

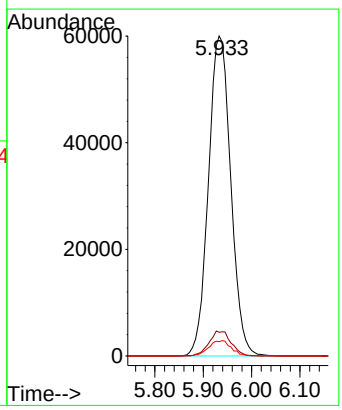


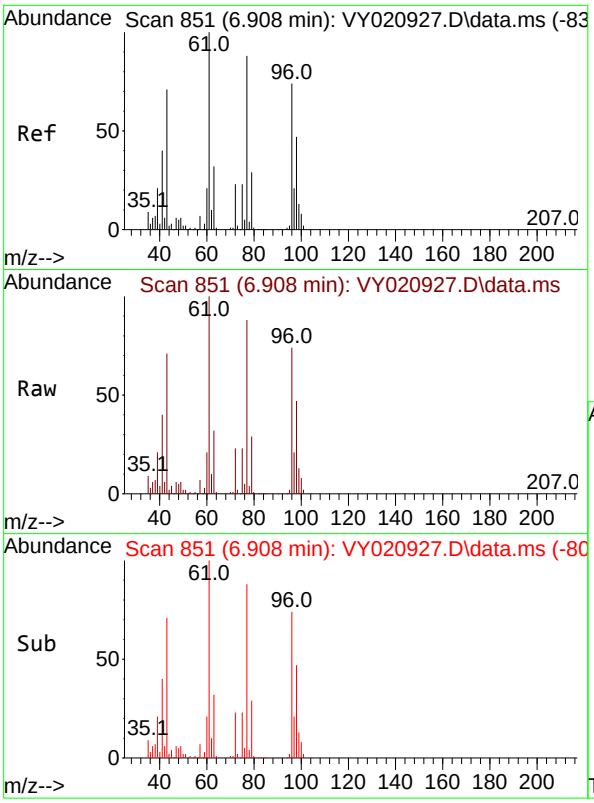




#24
1,1-Dichloroethane
Concen: 51.209 ug/l
RT: 5.933 min Scan# 691
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 63 Resp: 192614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.7 | 11.1 |
| 100 | 4.5 | 2.3 | 6.8 |






#25
2-Butanone
Concen: 265.225 ug/l
RT: 6.908 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

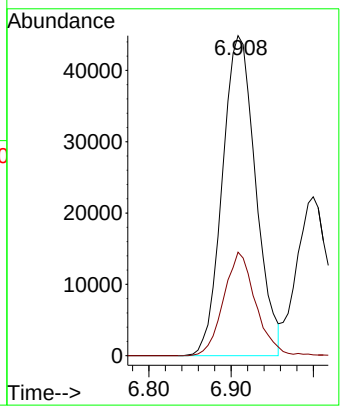
Tgt Ion: 43 Resp: 12636

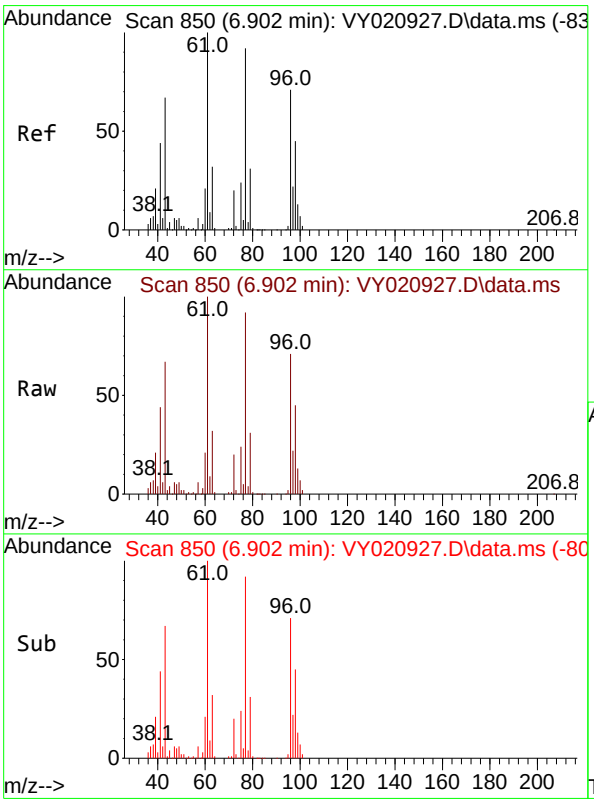
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 32.3 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

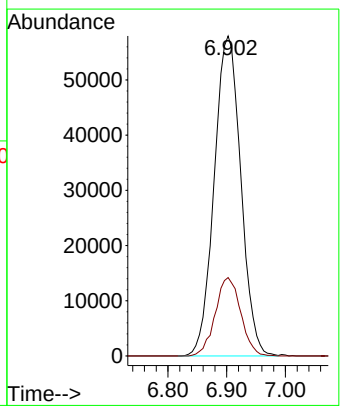


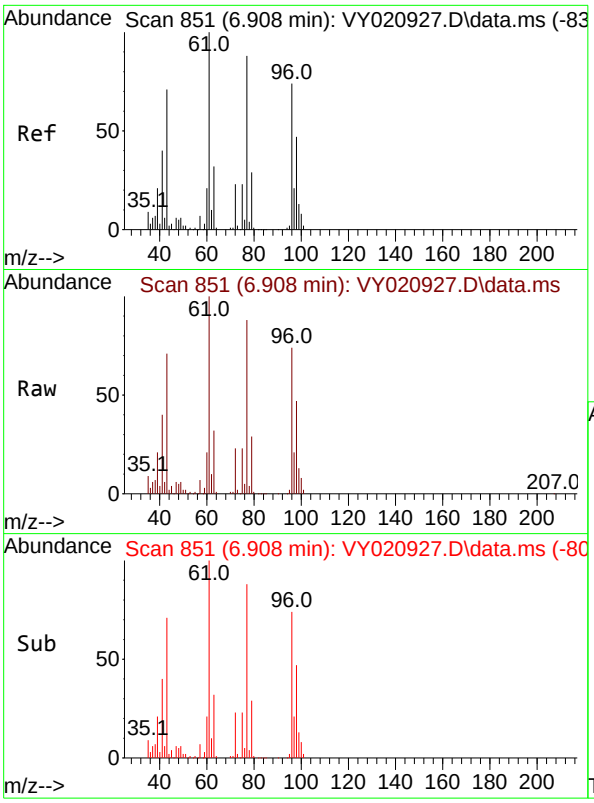




#26
2,2-Dichloropropane
Concen: 49.242 ug/l
RT: 6.902 min Scan# 850
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 77 Resp: 182433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.4 | 11.7 | 35.1 |






#27
cis-1,2-Dichloroethene
Concen: 50.755 ug/l
RT: 6.908 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 96 Resp: 13052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.6 | 0.0 | 275.2 |
| 98 | 64.8 | 0.0 | 129.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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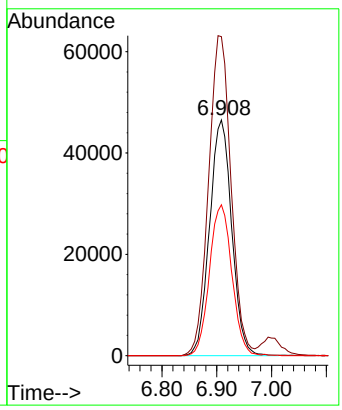
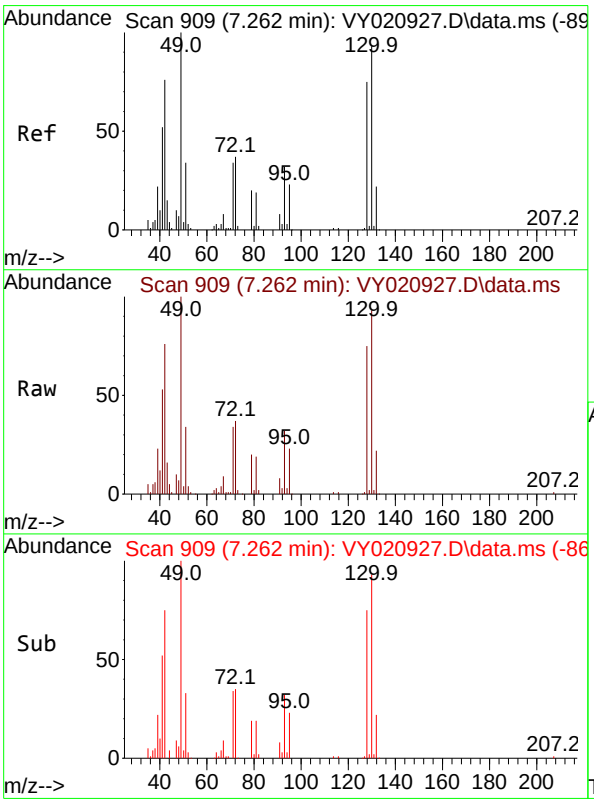
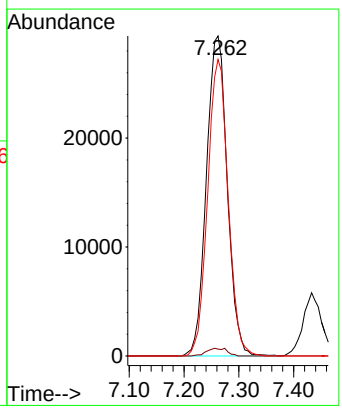


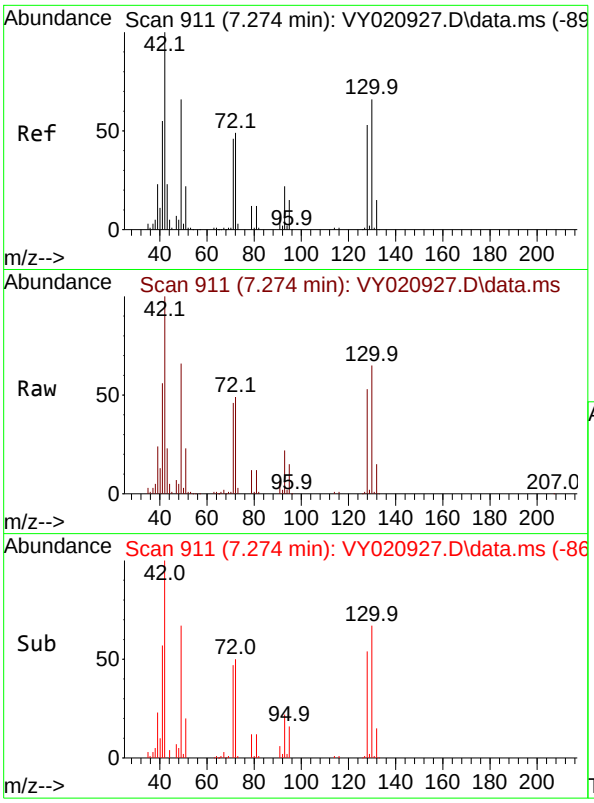




#28
Bromochloromethane
Concen: 51.213 ug/l
RT: 7.262 min Scan# 909
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 49 Resp: 77526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.3 | 0.0 | 4.6 |
| 130 | 90.8 | 72.6 | 109.0 |






#29
Tetrahydrofuran
Concen: 273.818 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

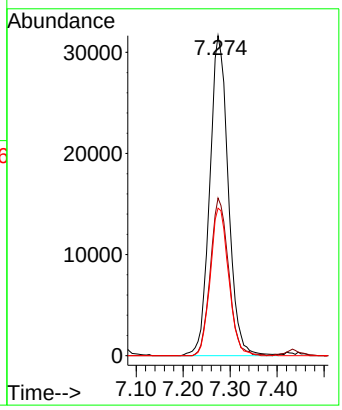
Tgt Ion: 42 Resp: 8694

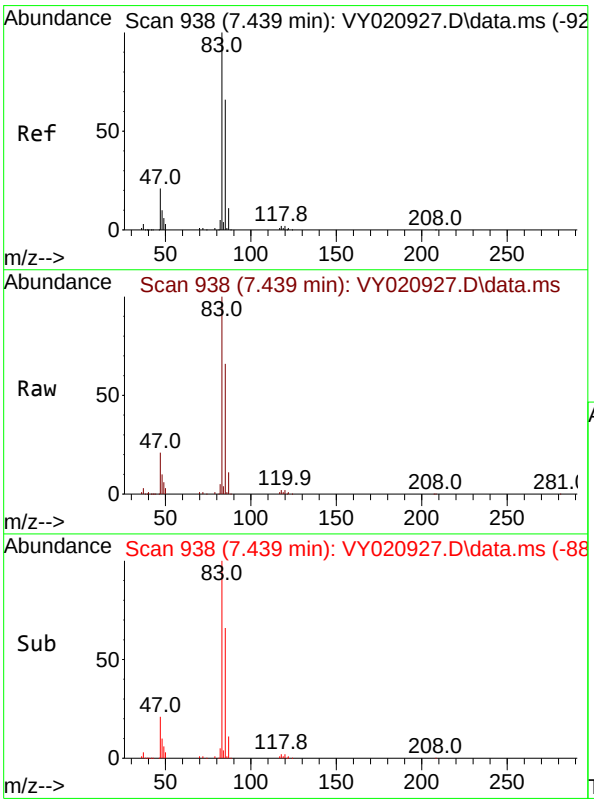
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.5 | 38.8 | 58.2 |
| 71 | 45.5 | 36.4 | 54.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

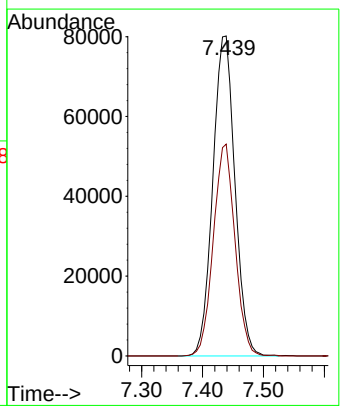


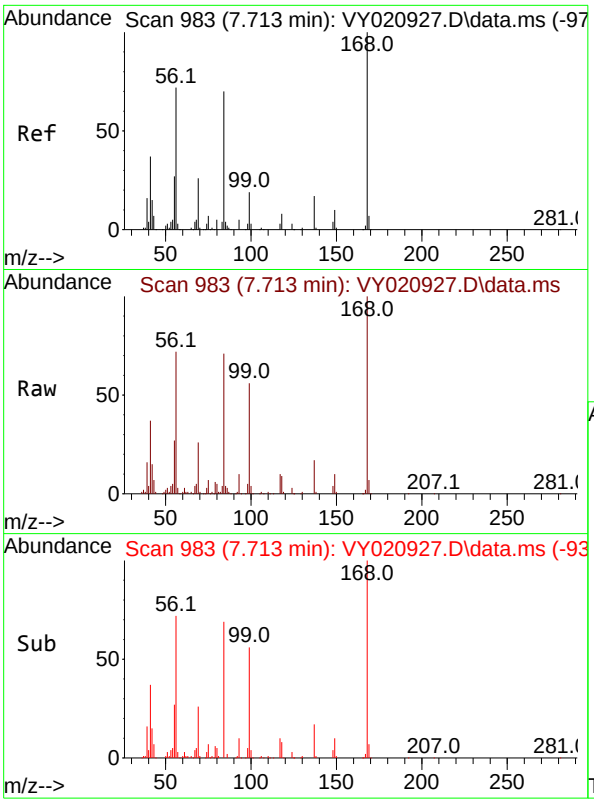




#30
Chloroform
Concen: 50.824 ug/l
RT: 7.439 min Scan# 938
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 83 Resp: 202326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.2 | 53.0 | 79.4 |






#31
Cyclohexane
Concen: 47.927 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

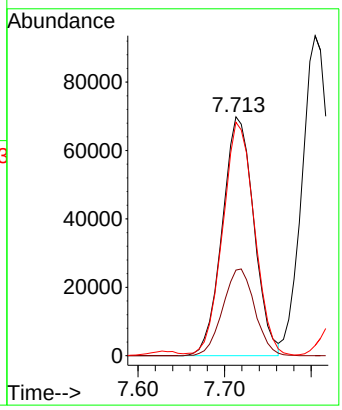
Tgt Ion: 56 Resp: 17717

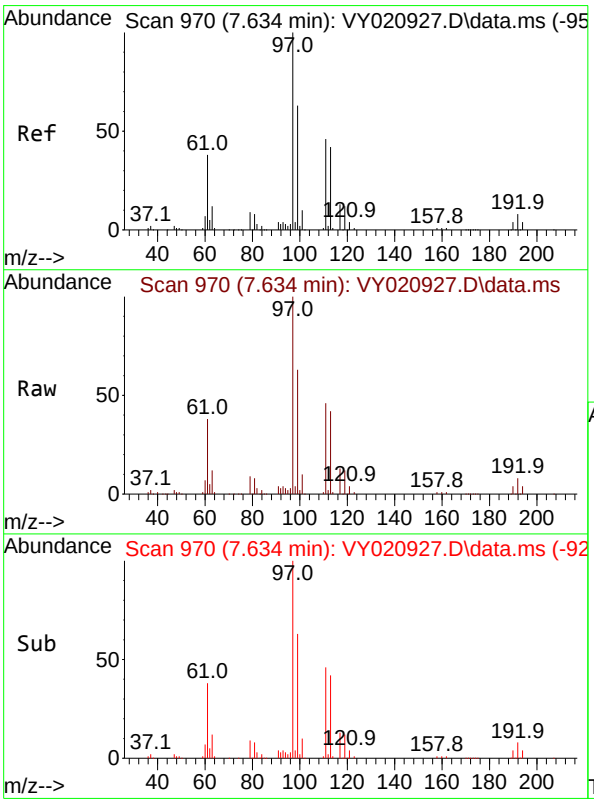
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.9 | 28.7 | 43.1 |
| 84 | 96.7 | 77.4 | 116.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

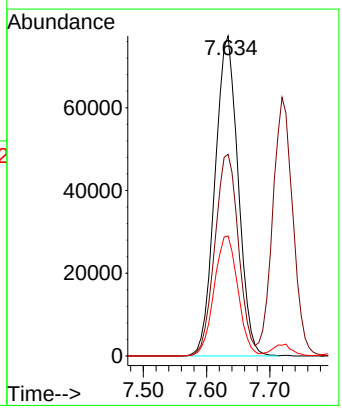


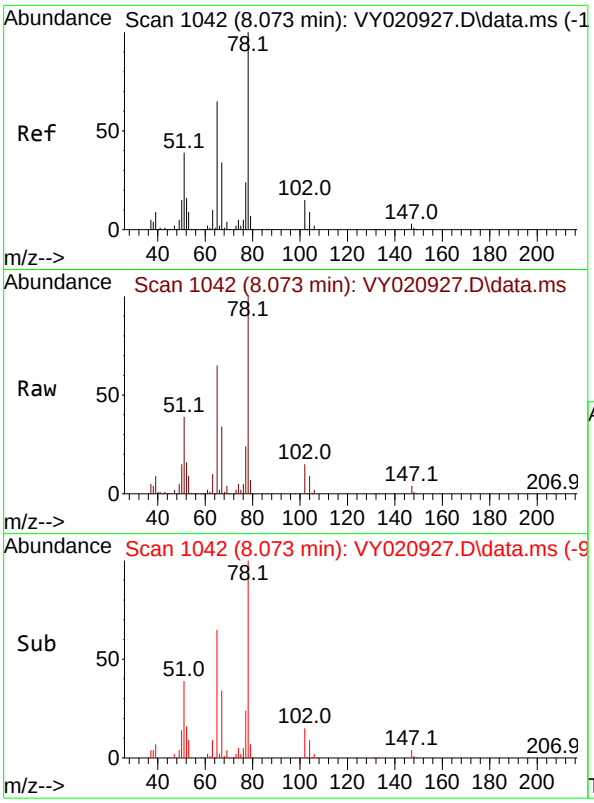




#32
1,1,1-Trichloroethane
Concen: 50.881 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 97 Resp: 196472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.6 | 51.7 | 77.5 |
| 61 | 38.5 | 30.8 | 46.2 |






#33
1,2-Dichloroethane-d4
Concen: 55.973 ug/l
RT: 8.073 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 65 Resp: 116198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.9 | 0.0 | 105.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

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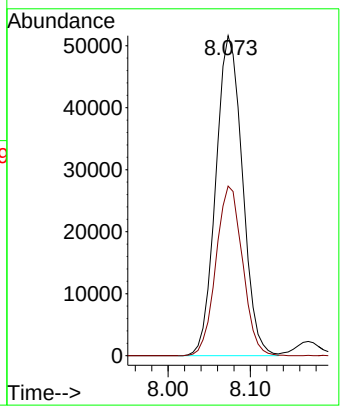
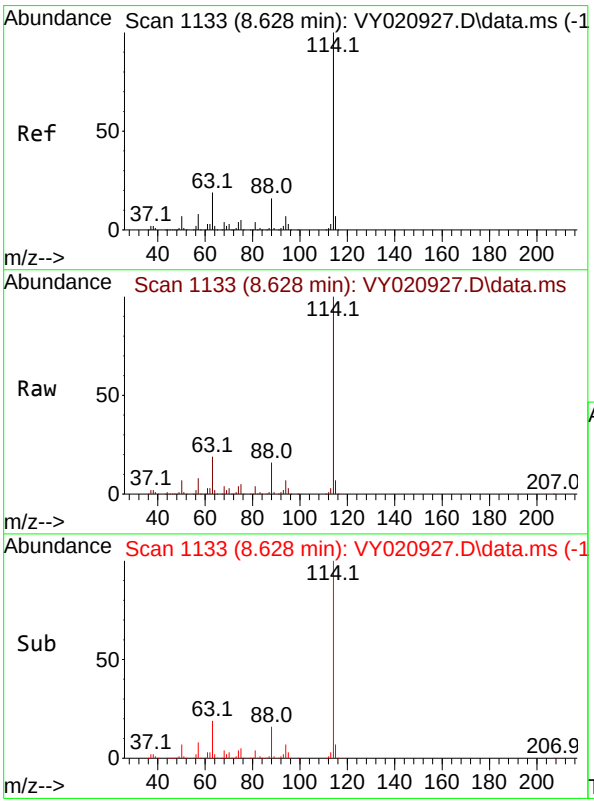
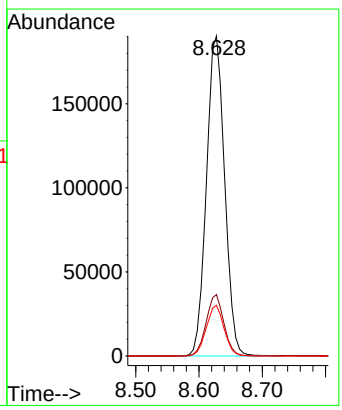


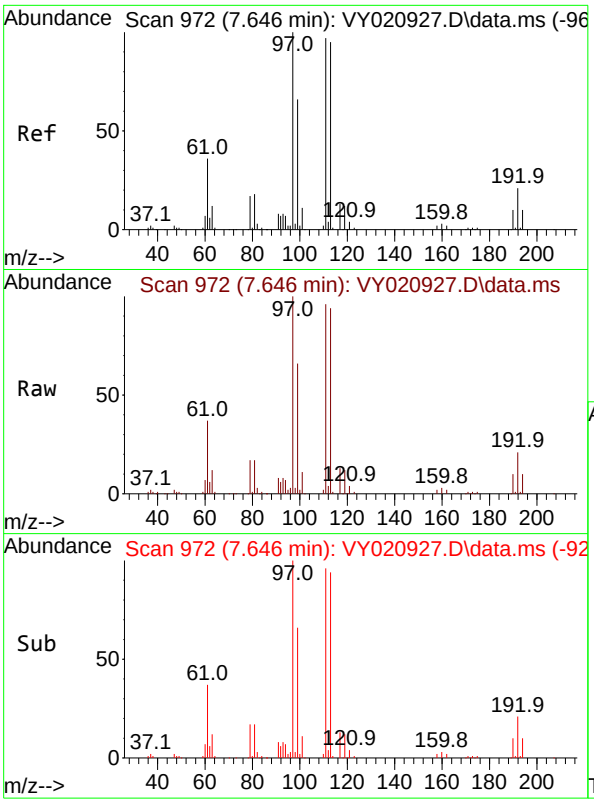




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.628 min Scan# 1133
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:114 Resp: 380285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.2 | 0.0 | 38.4 |
| 88 | 15.8 | 0.0 | 31.6 |






#35
Dibromofluoromethane
Concen: 55.780 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:113 Resp: 12177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.9 | 82.3 | 123.5 |
| 192 | 21.8 | 17.4 | 26.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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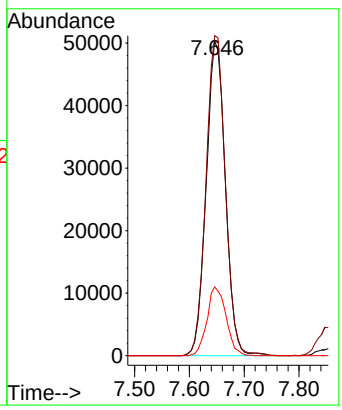
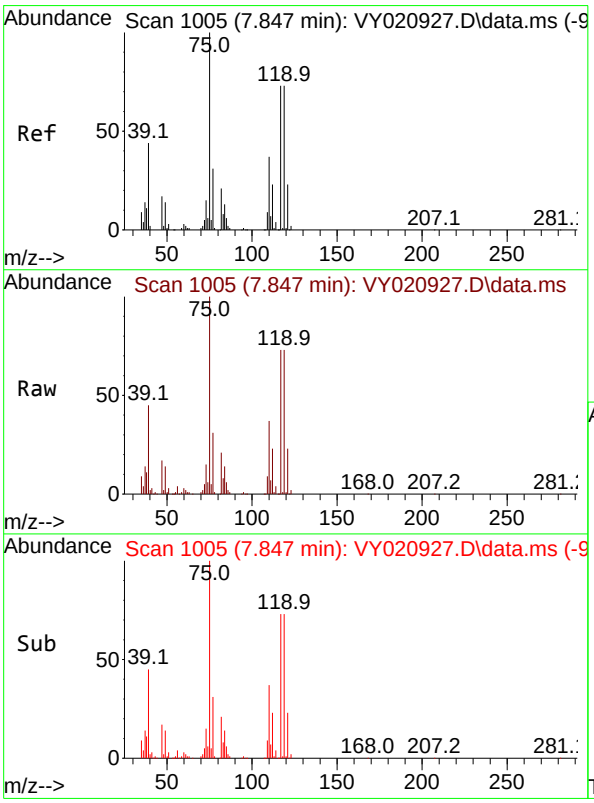
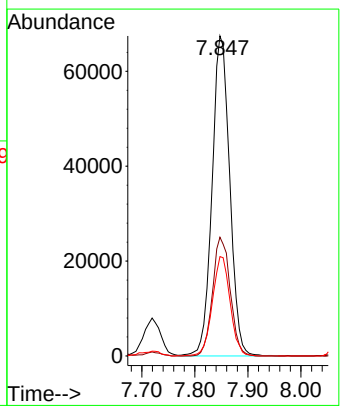


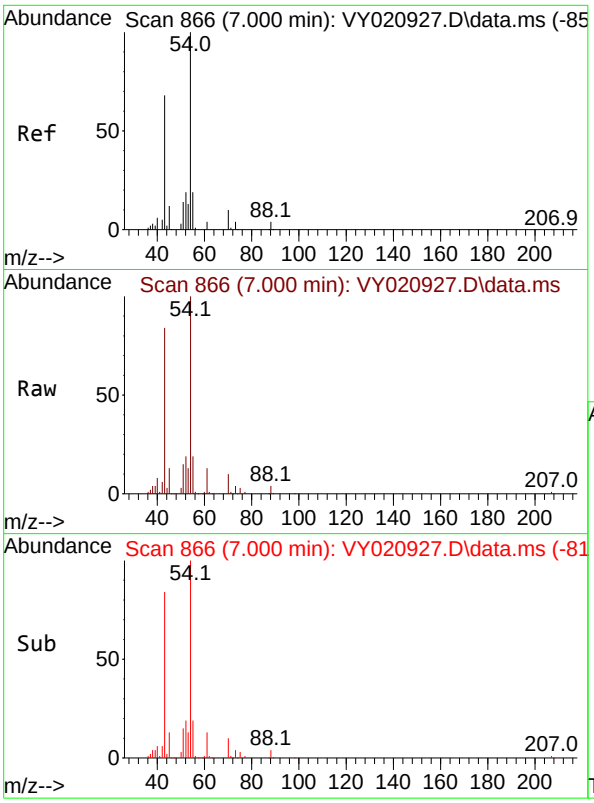




#36
1,1-Dichloropropene
Concen: 51.349 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 75 Resp: 156517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.0 | 18.5 | 55.5 |
| 77 | 31.2 | 25.0 | 37.4 |






#37
Ethyl Acetate
Concen: 52.672 ug/l
RT: 7.000 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 43 Resp: 6229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.1 | 12.1 | 18.1 |
| 70 | 11.9 | 9.5 | 14.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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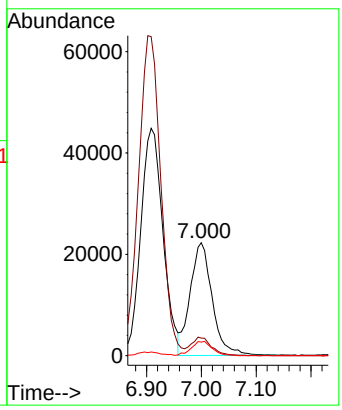
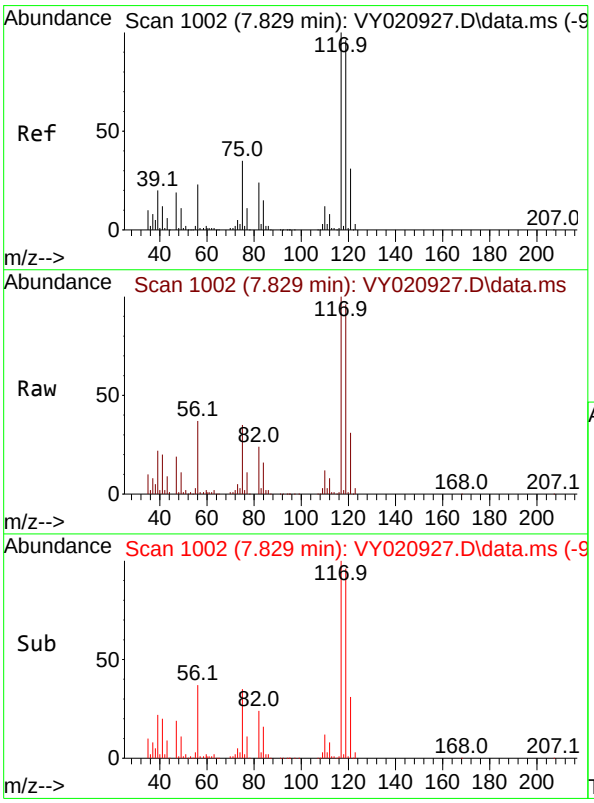
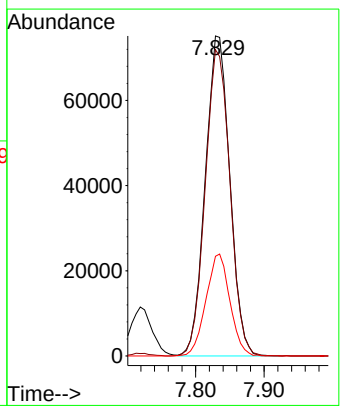


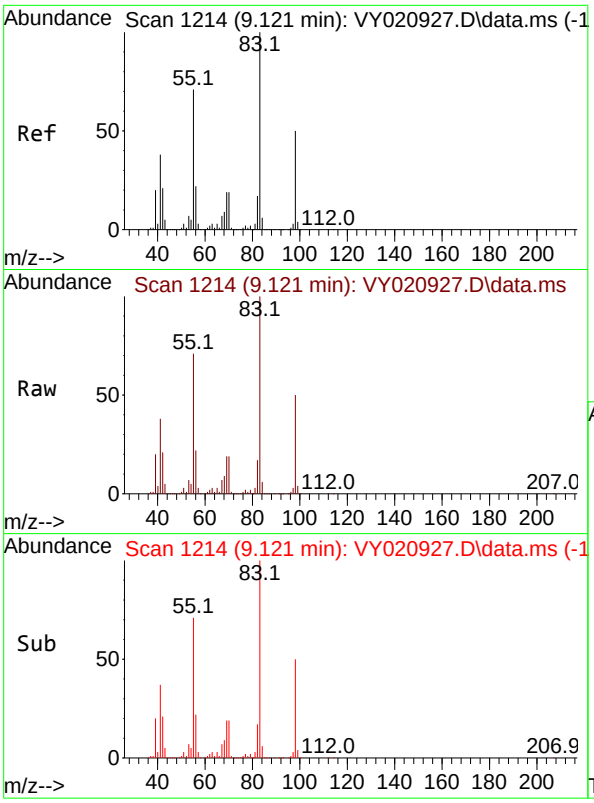




#38
Carbon Tetrachloride
Concen: 50.965 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:117 Resp: 187340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.6 | 76.5 | 114.7 |
| 121 | 31.2 | 25.0 | 37.4 |






#39
Methylcyclohexane
Concen: 51.485 ug/l
RT: 9.121 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 83 Resp: 21245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 71.2 | 57.0 | 85.4 |
| 98 | 50.1 | 40.1 | 60.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

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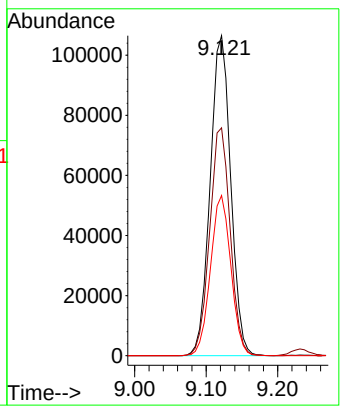
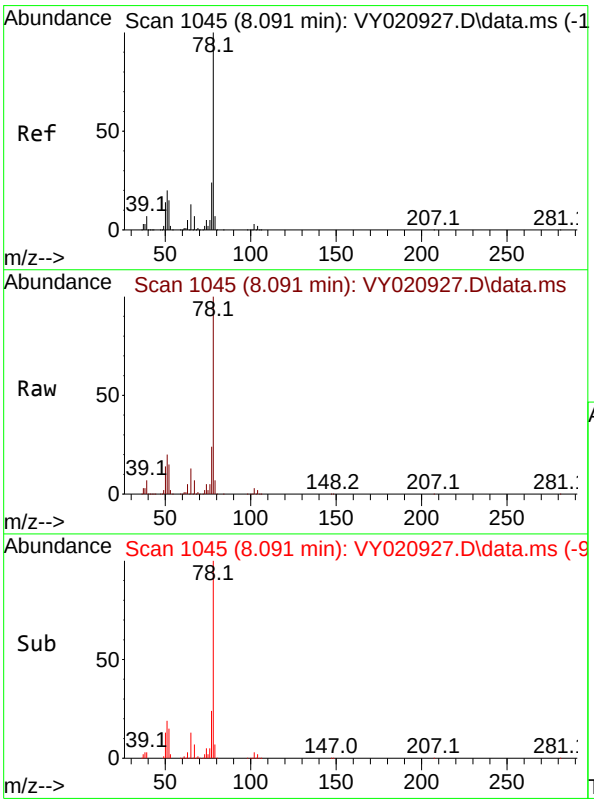
Supervised By :Mahesh Dadoda 01/27/2025

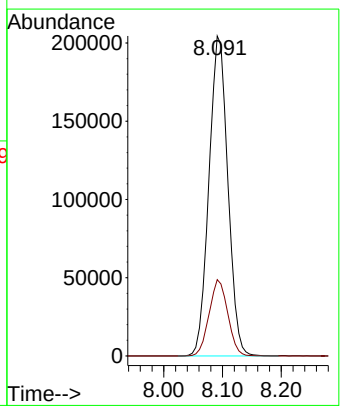


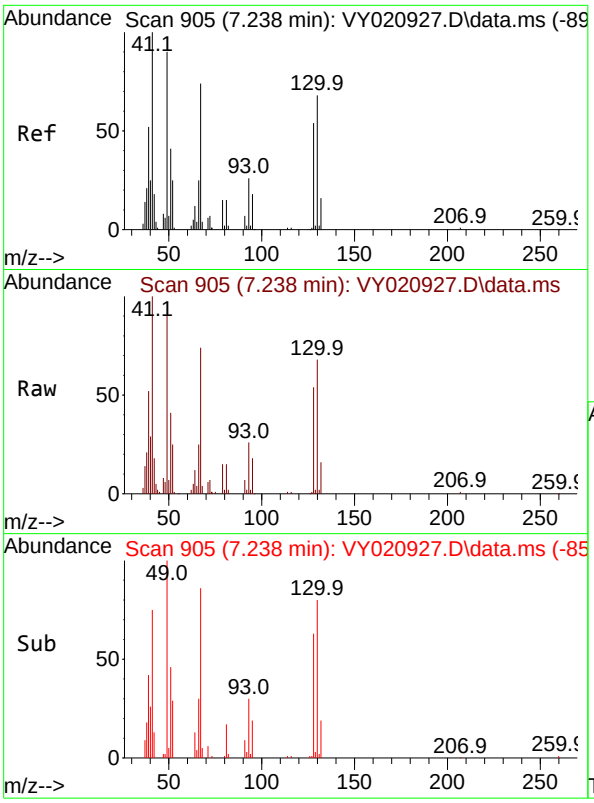




#40
Benzene
Concen: 51.122 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 78 Resp: 457148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.8 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 55.867 ug/l
RT: 7.238 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

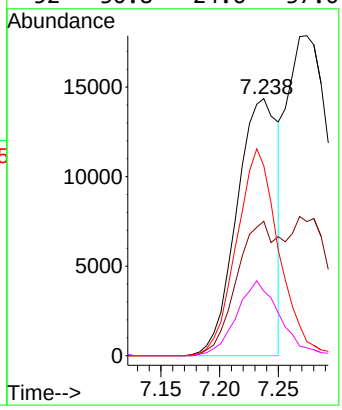
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

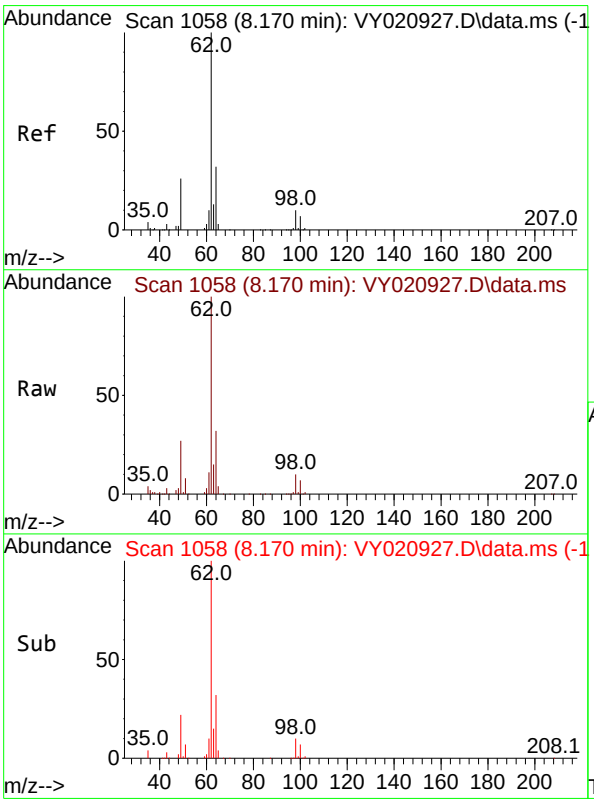
Tgt Ion: 41 Resp: 3490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 58.0 | 46.4 | 69.6 |
| 67 | 83.4 | 66.7 | 100.1 |
| 52 | 30.8 | 24.6 | 37.0 |

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

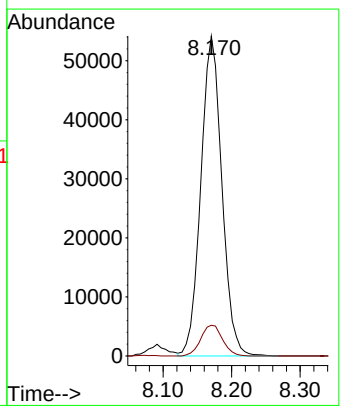


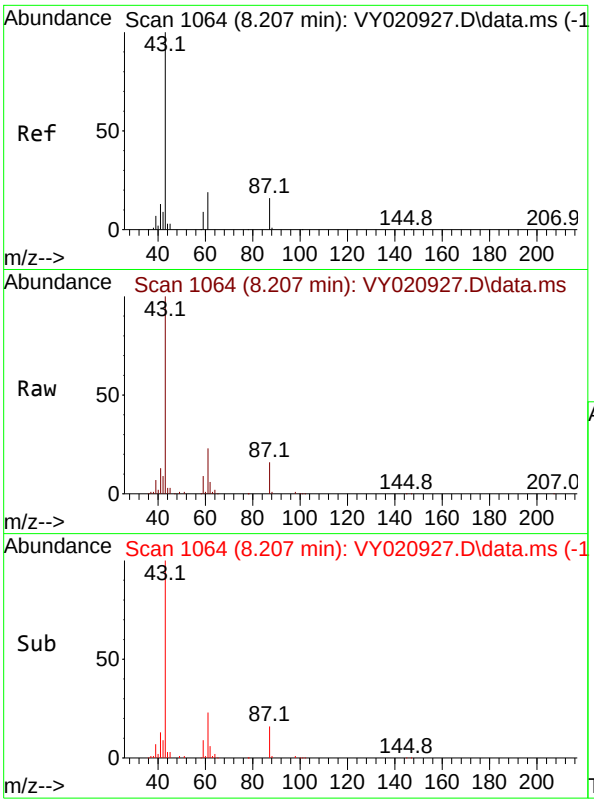




#42
1,2-Dichloroethane
Concen: 52.057 ug/l
RT: 8.170 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 62 Resp: 115831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.9 | 0.0 | 19.8 |






#43
Isopropyl Acetate
Concen: 54.008 ug/l
RT: 8.207 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 43 Resp: 12111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 32.5 | 26.0 | 39.0 |
| 87 | 15.5 | 12.4 | 18.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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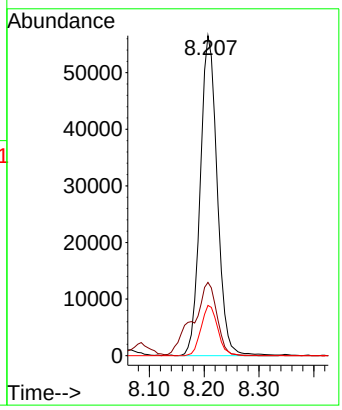
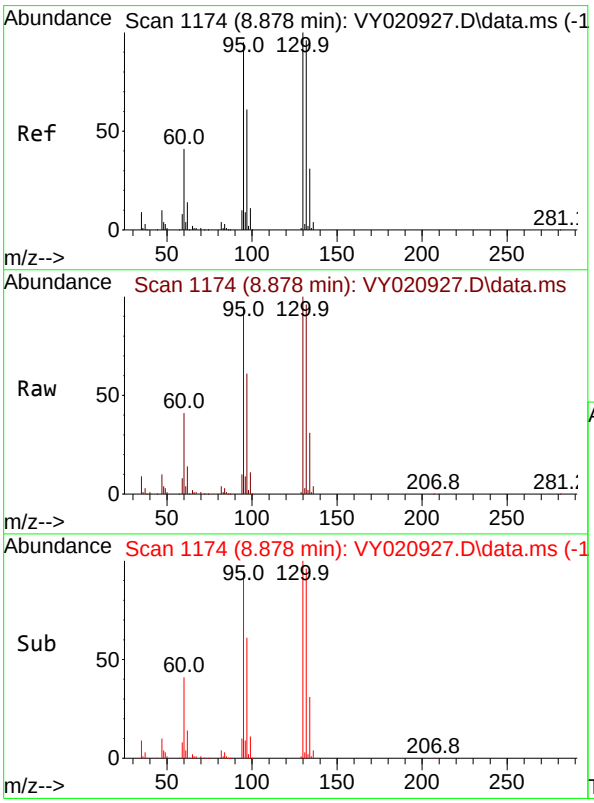
Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

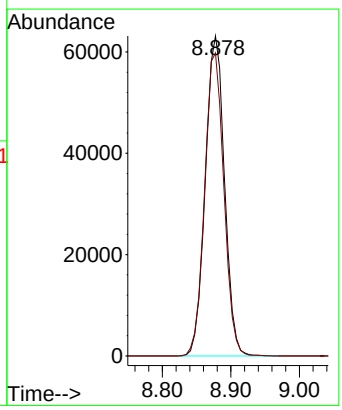


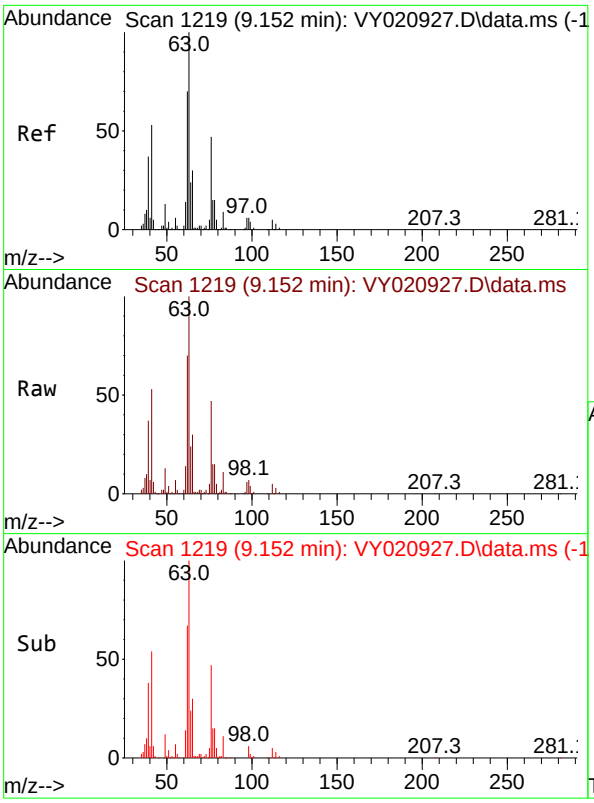




#44
Trichloroethene
Concen: 50.426 ug/l
RT: 8.878 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:130 Resp: 122503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 94.7 | 0.0 | 189.4 |






#45
1,2-Dichloropropane
Concen: 51.660 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 63 Resp: 10197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.9 | 23.9 | 35.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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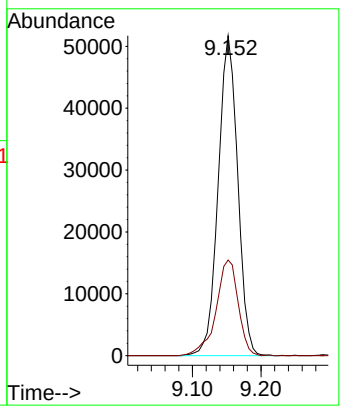
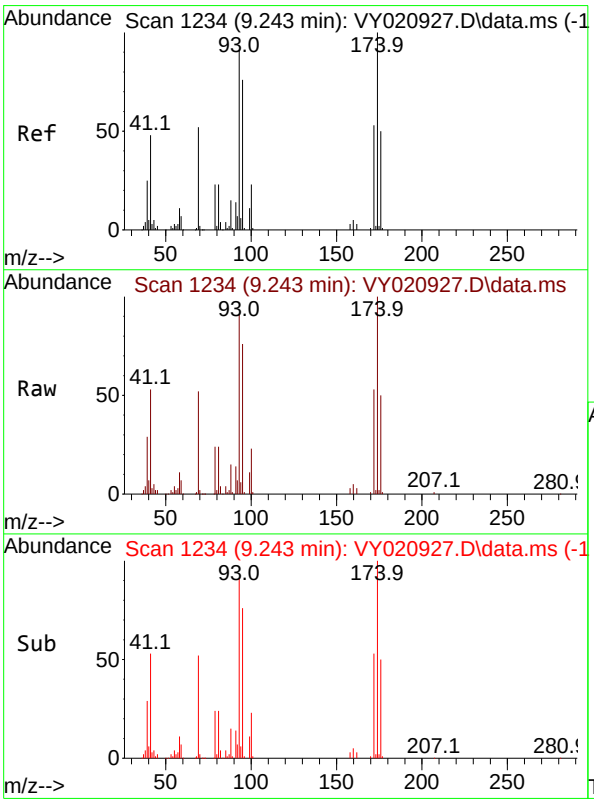
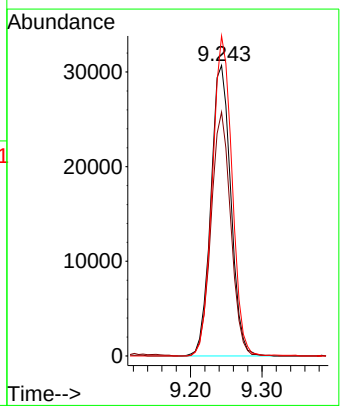


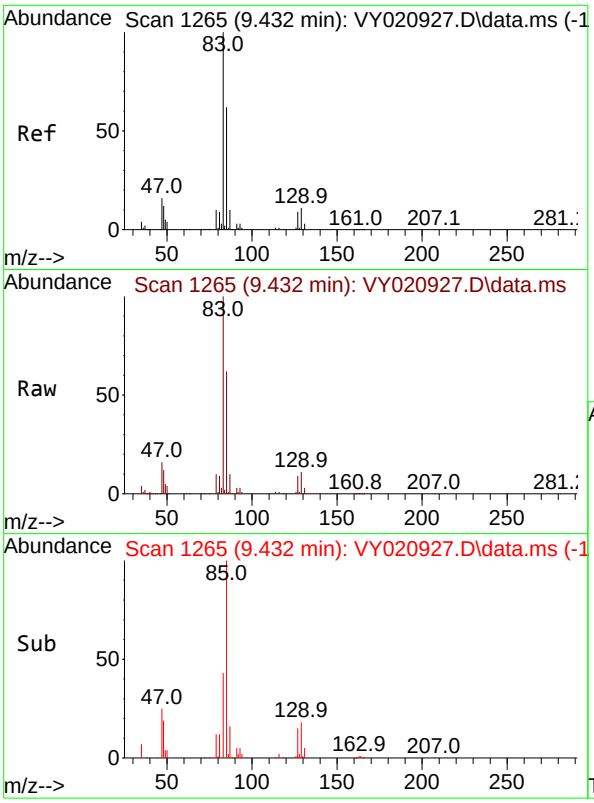




#46
Dibromomethane
Concen: 52.935 ug/l
RT: 9.243 min Scan# 1234
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 93 Resp: 59402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.7 | 66.2 | 99.2 |
| 174 | 108.7 | 87.0 | 130.4 |






#47
Bromodichloromethane
Concen: 51.665 ug/l
RT: 9.432 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 83 Resp: 15426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.6 | 49.3 | 73.9 |
| 127 | 9.2 | 7.4 | 11.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 01/27/2025
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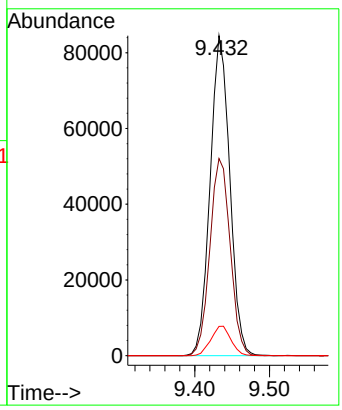
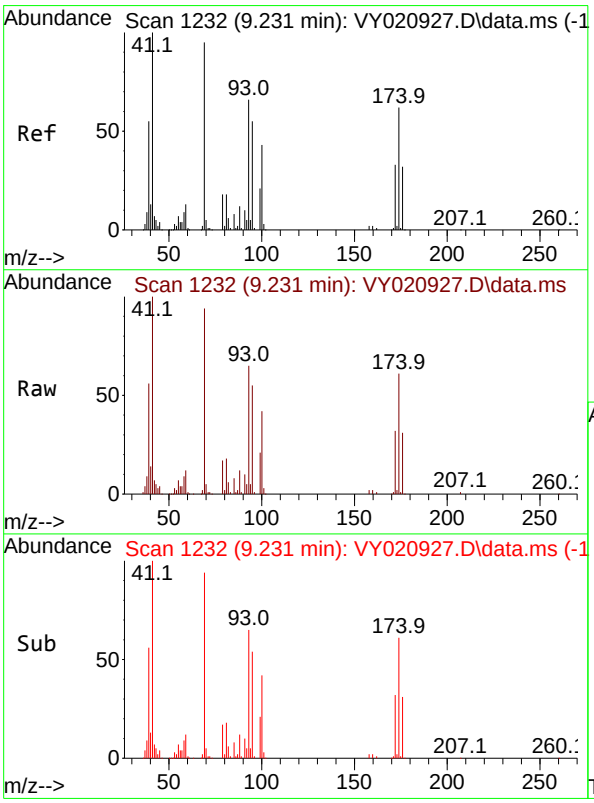
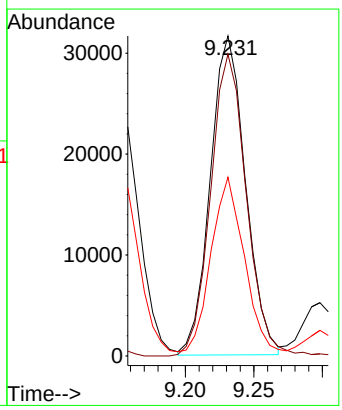


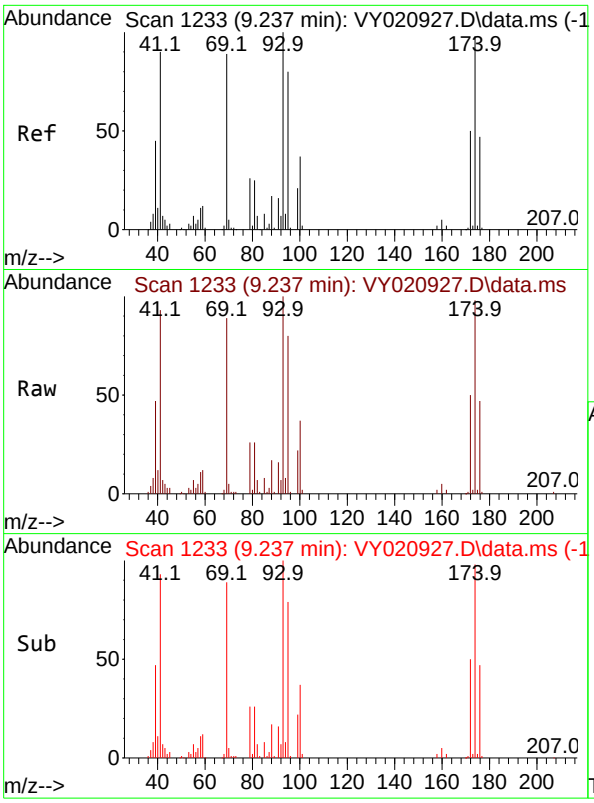




#48
Methyl methacrylate
Concen: 53.400 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 41 Resp: 56489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 96.2 | 77.0 | 115.4 |
| 39 | 51.4 | 41.1 | 61.7 |






#49
1,4-Dioxane
Concen: 1108.338 ug/l
RT: 9.237 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

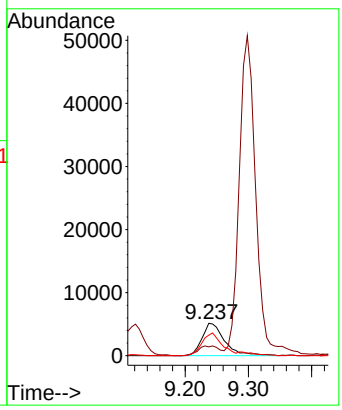
Tgt Ion: 88 Resp: 1280

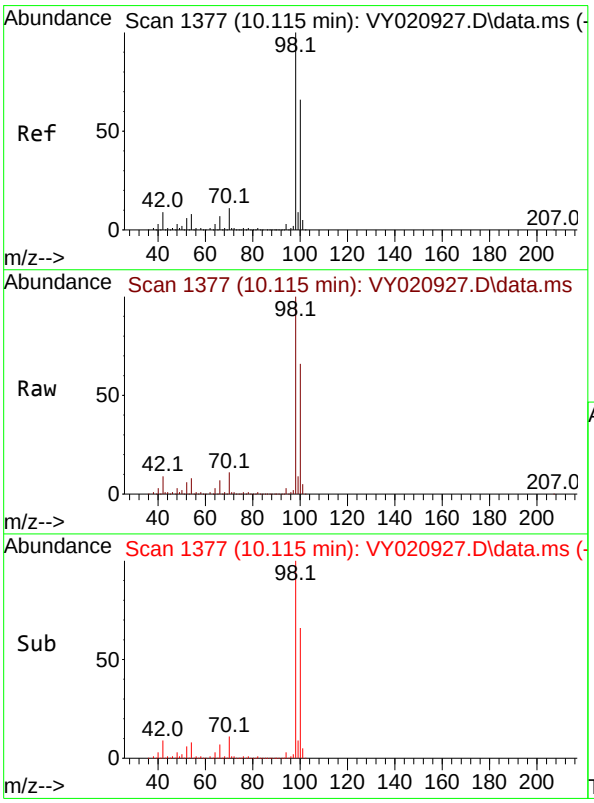
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 28.9 | 23.1 | 34.7 |
| 58 | 61.3 | 49.0 | 73.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

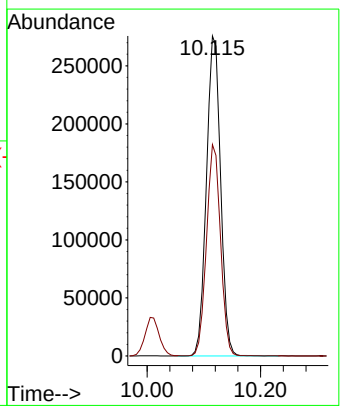


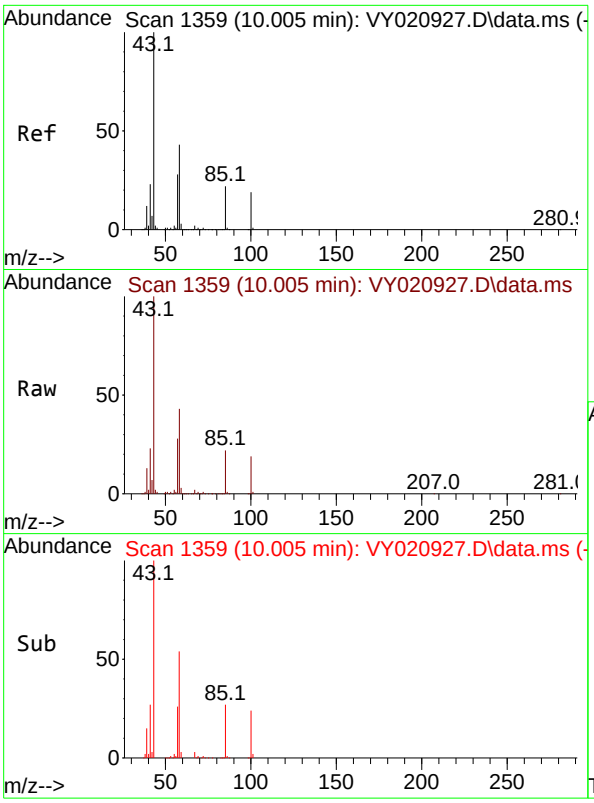




#50
Toluene-d8
Concen: 56.318 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 98 Resp: 476904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 52.3 | 78.5 |






#51
4-Methyl-2-Pentanone
Concen: 272.957 ug/l
RT: 10.005 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

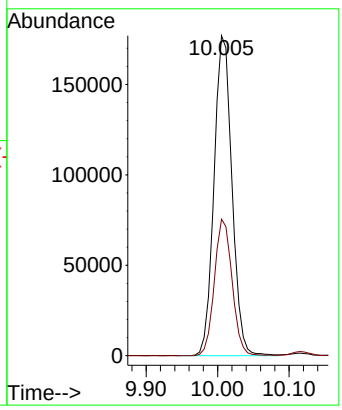
Tgt Ion: 43 Resp: 30864

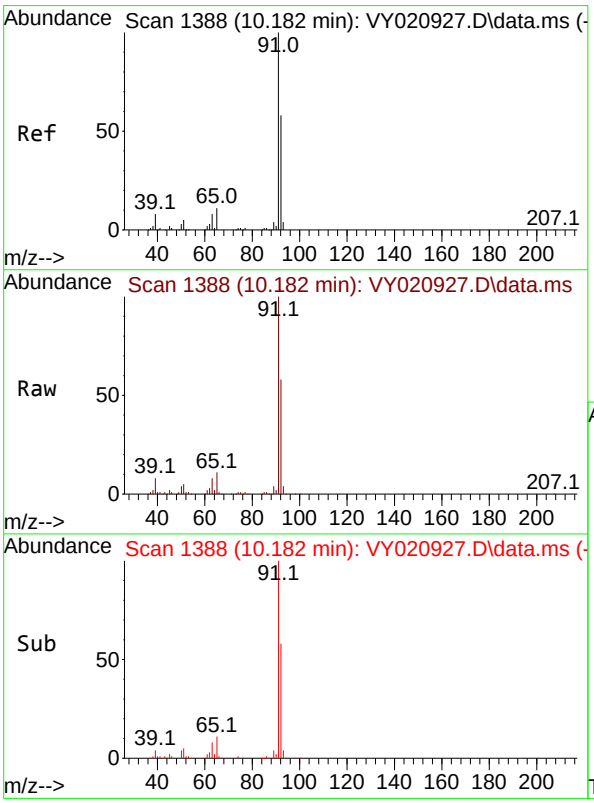
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.1 | 33.7 | 50.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

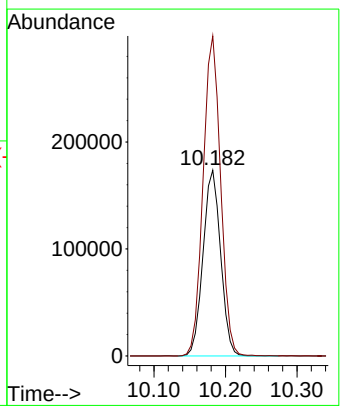


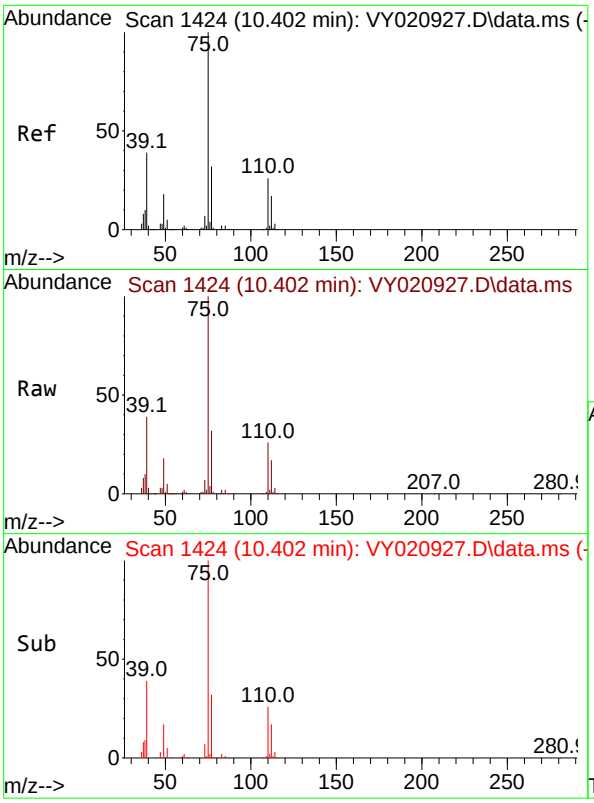




#52
Toluene
Concen: 51.481 ug/l
RT: 10.182 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 92 Resp: 296074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.6 | 137.3 | 205.9 |






#53
t-1,3-Dichloropropene
Concen: 52.581 ug/l
RT: 10.402 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 75 Resp: 14395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.4 | 38.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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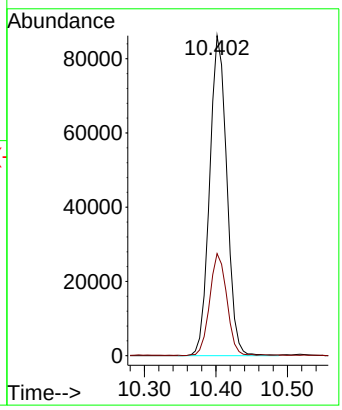
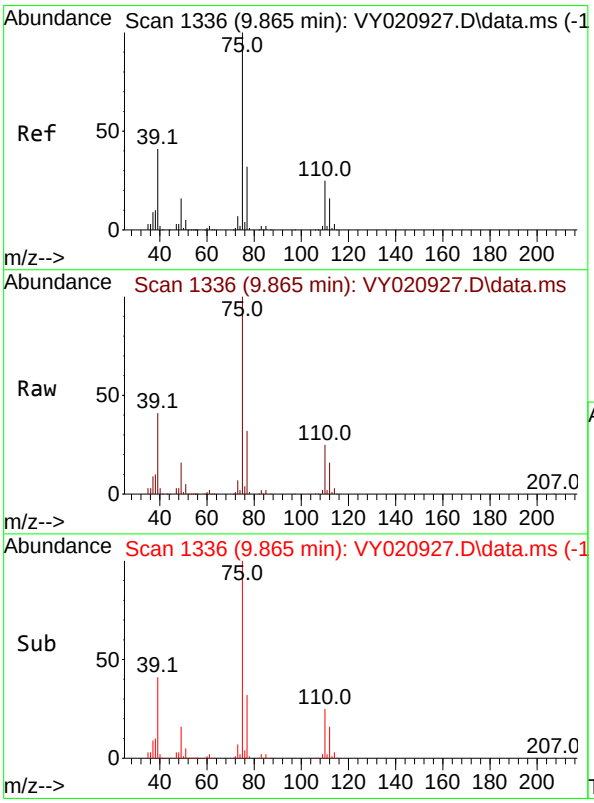
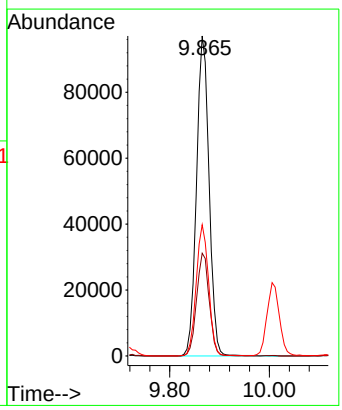


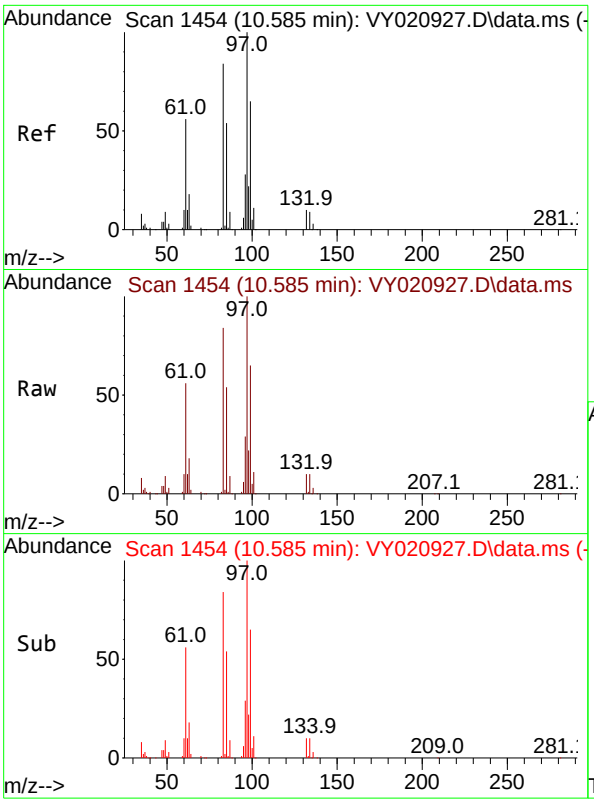




#54
cis-1,3-Dichloropropene
Concen: 51.923 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 75 Resp: 169737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 25.7 | 38.5 |
| 39 | 41.0 | 32.8 | 49.2 |






#55
1,1,2-Trichloroethane
Concen: 51.844 ug/l
RT: 10.585 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 97 Resp: 7864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 83.8 | 67.0 | 100.6 |
| 85 | 53.9 | 43.1 | 64.7 |
| 99 | 65.4 | 52.3 | 78.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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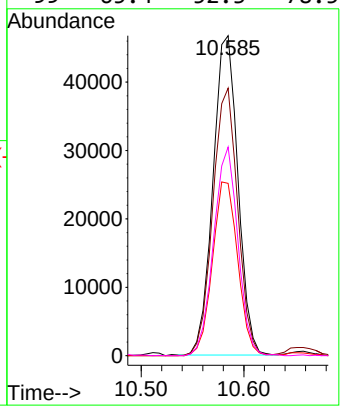
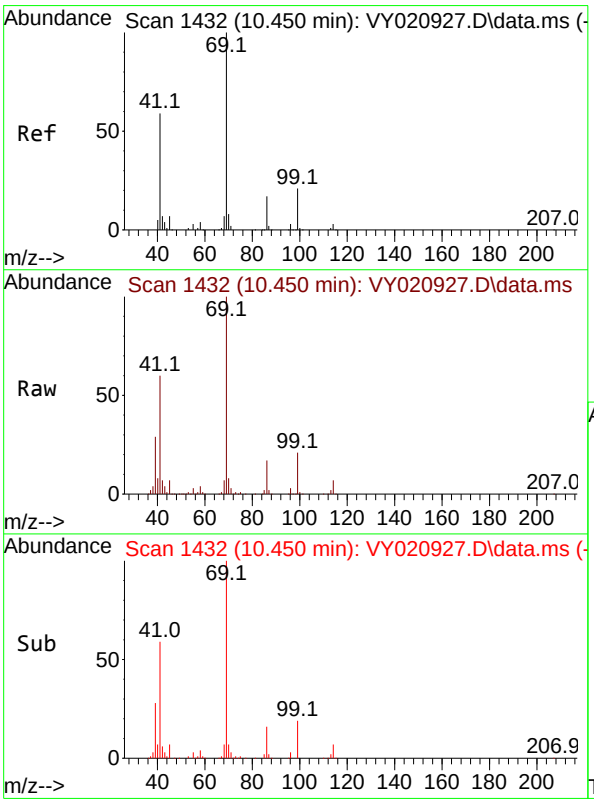
Supervised By :Mahesh Dadoda 01/27/2025

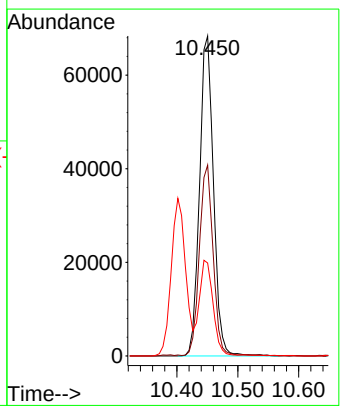


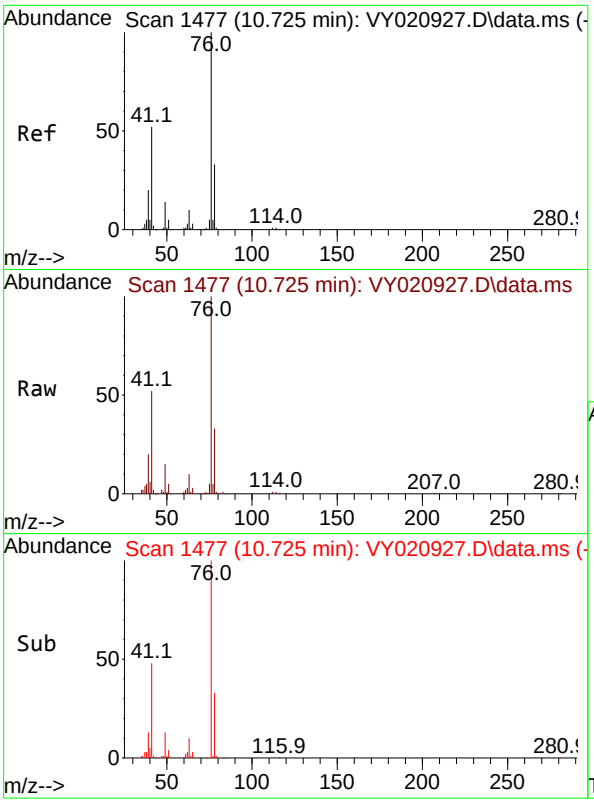




#56
Ethyl methacrylate
Concen: 54.625 ug/l
RT: 10.450 min Scan# 1432
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 69 Resp: 108592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 58.3 | 46.6 | 70.0 |
| 39 | 29.9 | 23.9 | 35.9 |






#57
1,3-Dichloropropane
Concen: 52.099 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 76 Resp: 13425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 26.2 | 39.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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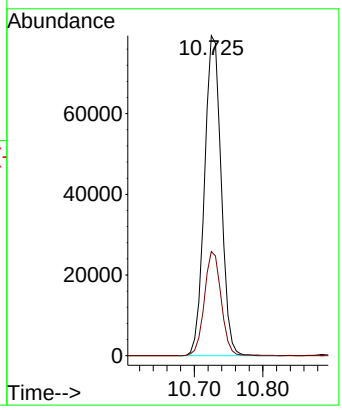
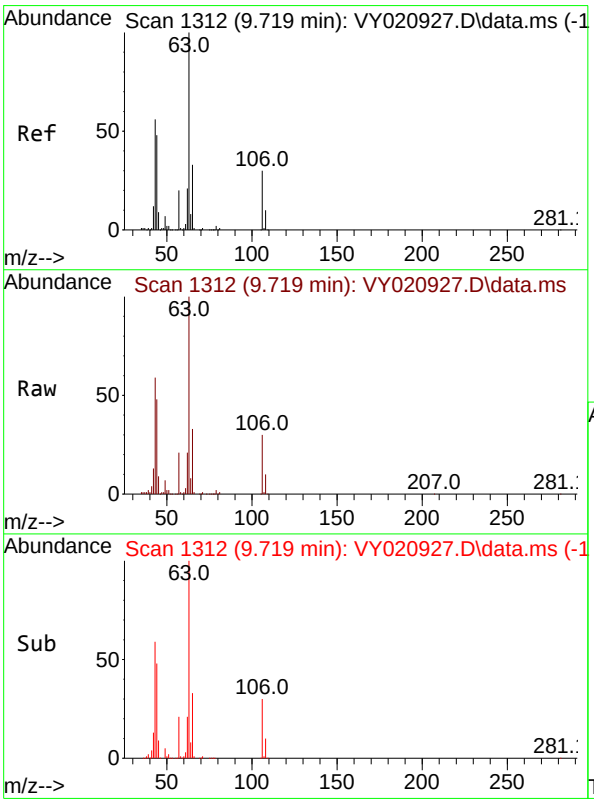
Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

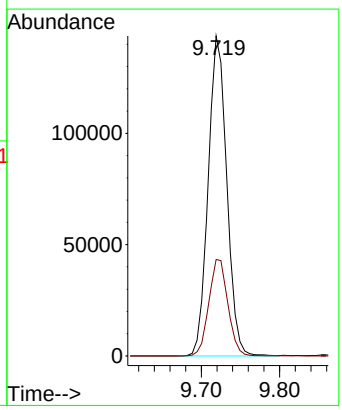


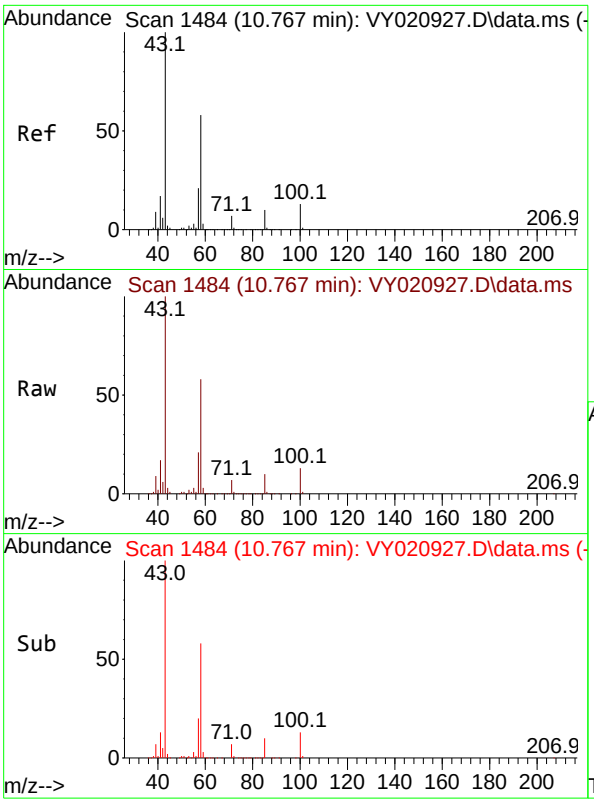




#58
2-Chloroethyl Vinyl ether
Concen: 262.808 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 63 Resp: 237122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 30.9 | 24.7 | 37.1 |






#59
2-Hexanone
Concen: 277.962 ug/l
RT: 10.767 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 43 Resp: 20210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.9 | 29.9 | 89.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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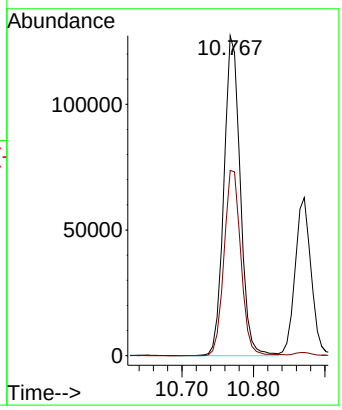
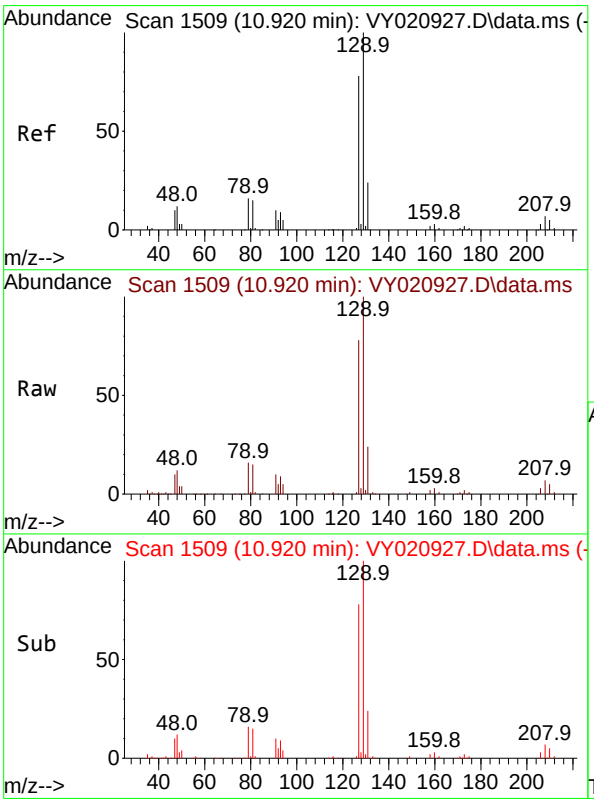
Supervised By :Mahesh Dadoda 01/27/2025

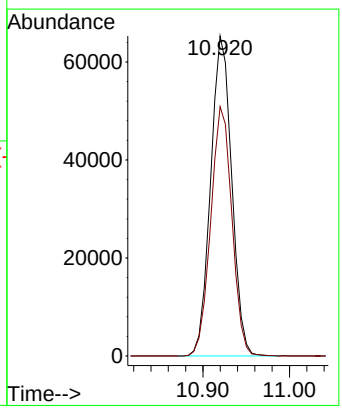


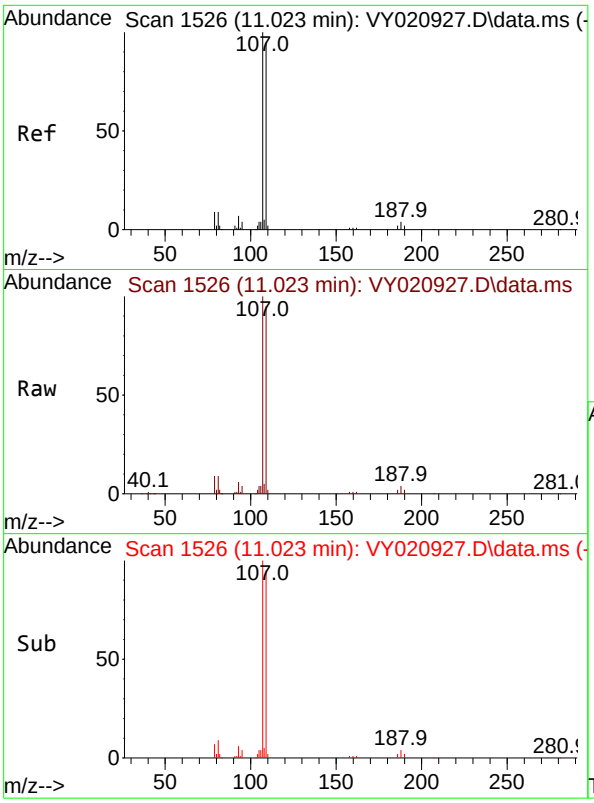




#60
Dibromochloromethane
Concen: 51.604 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:129 Resp: 110167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.4 | 39.2 | 117.6 |






#61
1,2-Dibromoethane
Concen: 52.236 ug/l
RT: 11.023 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

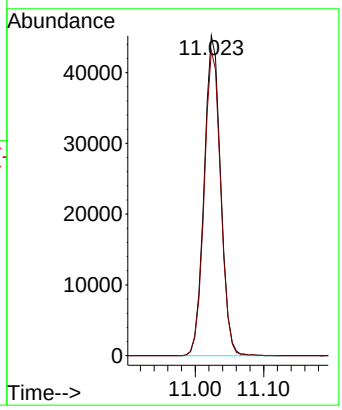
Tgt Ion:107 Resp: 7578

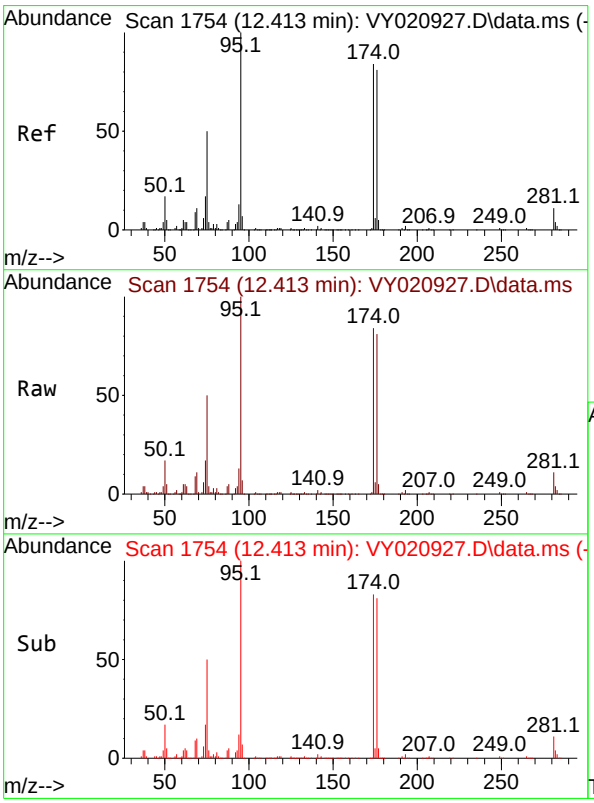
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.4 | 76.3 | 114.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

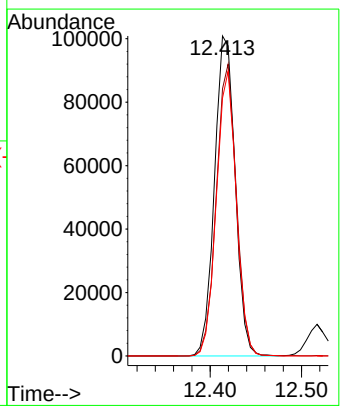


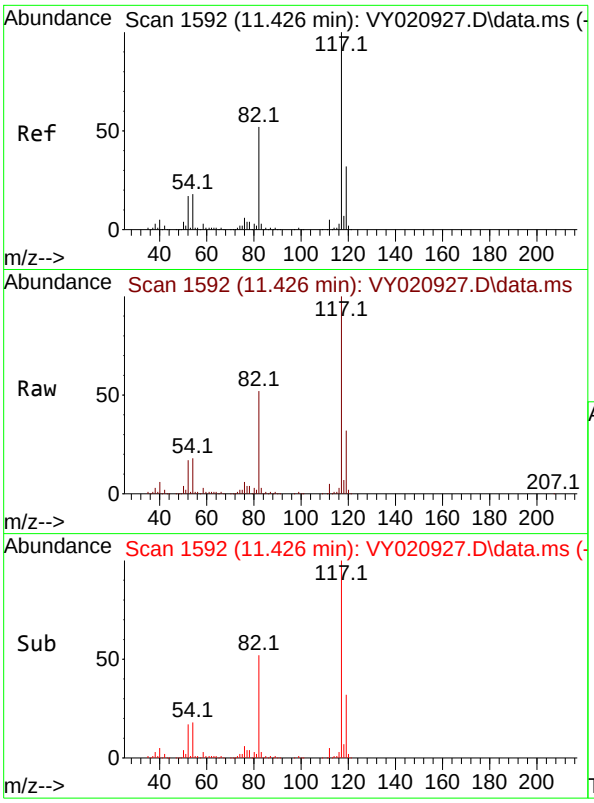




#62
4-Bromofluorobenzene
Concen: 56.174 ug/l
RT: 12.413 min Scan# 1754
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 95 Resp: 158312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 88.7 | 0.0 | 177.4 |
| 176 | 86.1 | 0.0 | 172.2 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:117 Resp: 32312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.3 | 41.8 | 62.8 |
| 119 | 32.5 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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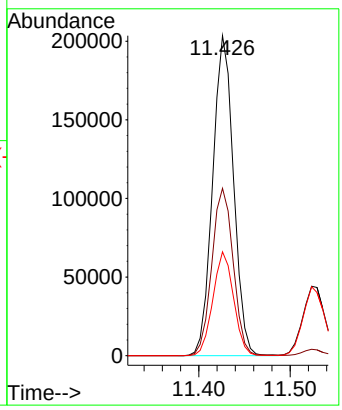
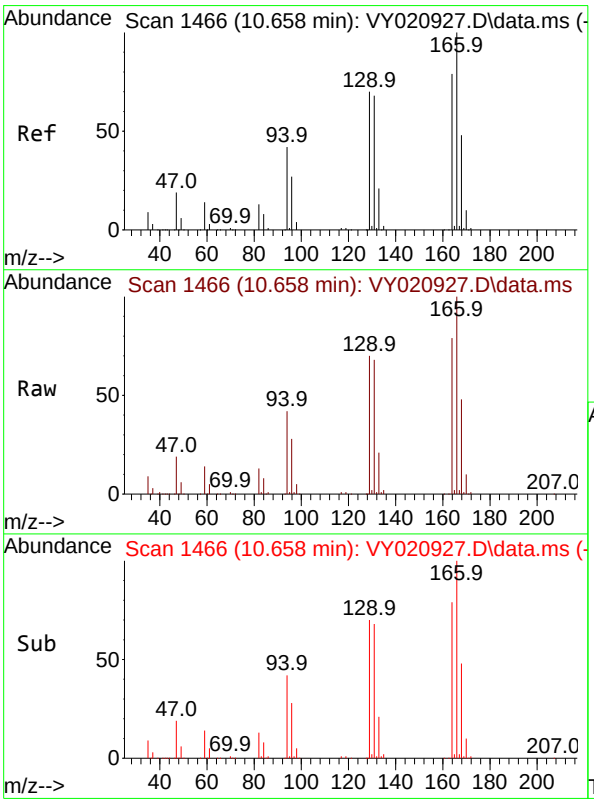
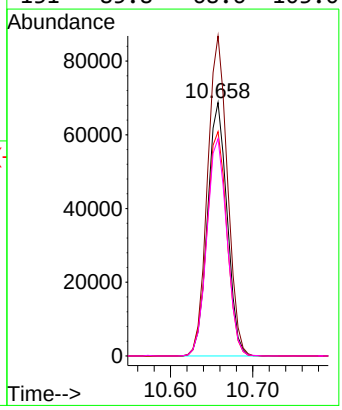


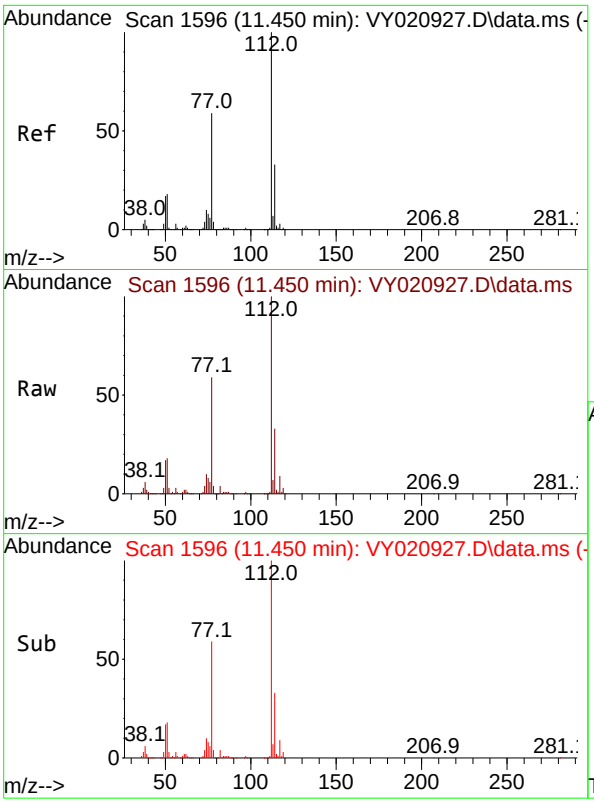




#64
Tetrachloroethene
Concen: 50.551 ug/l
RT: 10.658 min Scan# 1466
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:164 Resp: 113672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.3 | 101.0 | 151.6 |
| 129 | 88.5 | 70.8 | 106.2 |
| 131 | 85.8 | 68.6 | 103.0 |






#65
Chlorobenzene
Concen: 50.723 ug/l
RT: 11.450 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:112 Resp: 32050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.5 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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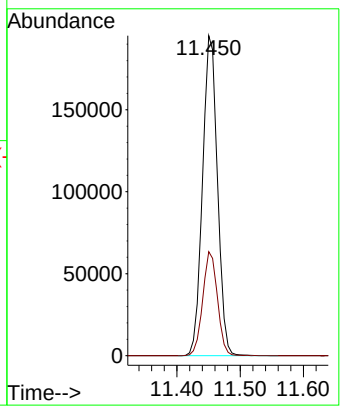
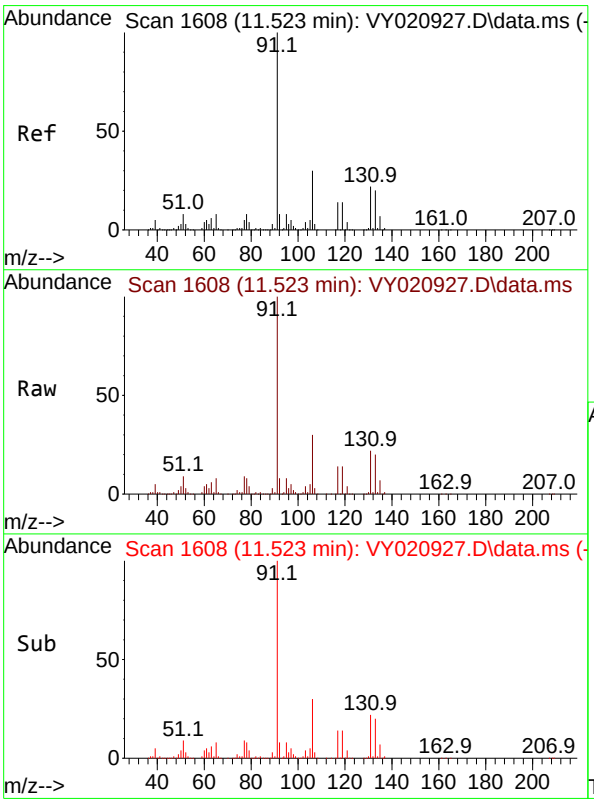
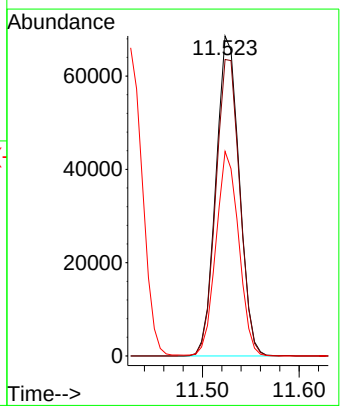


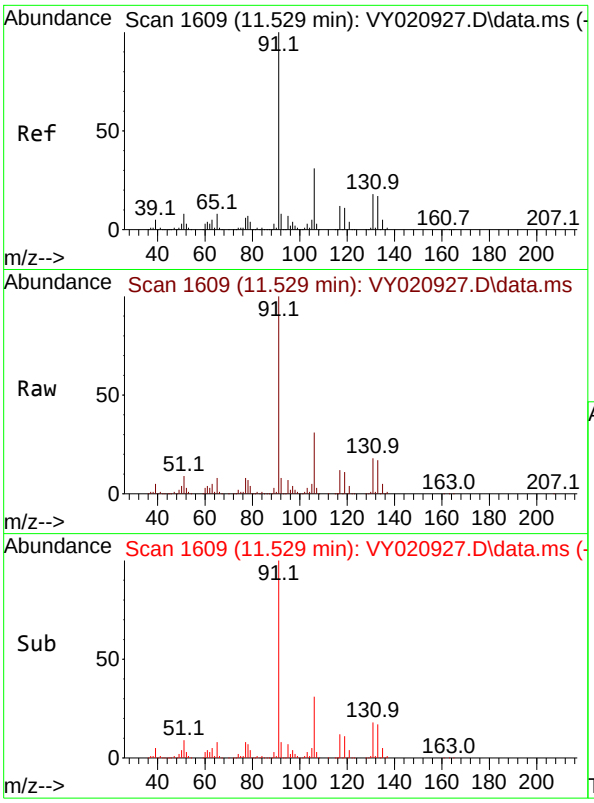




#66
1,1,1,2-Tetrachloroethane
Concen: 51.106 ug/l
RT: 11.523 min Scan# 1608
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:131 Resp: 114751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.1 | 47.5 | 142.6 |
| 119 | 62.4 | 31.2 | 93.6 |






#67
Ethyl Benzene
Concen: 51.610 ug/l
RT: 11.529 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

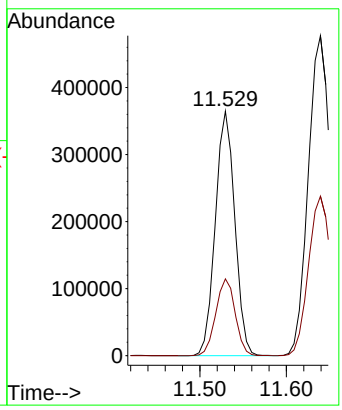
Tgt Ion: 91 Resp: 56904

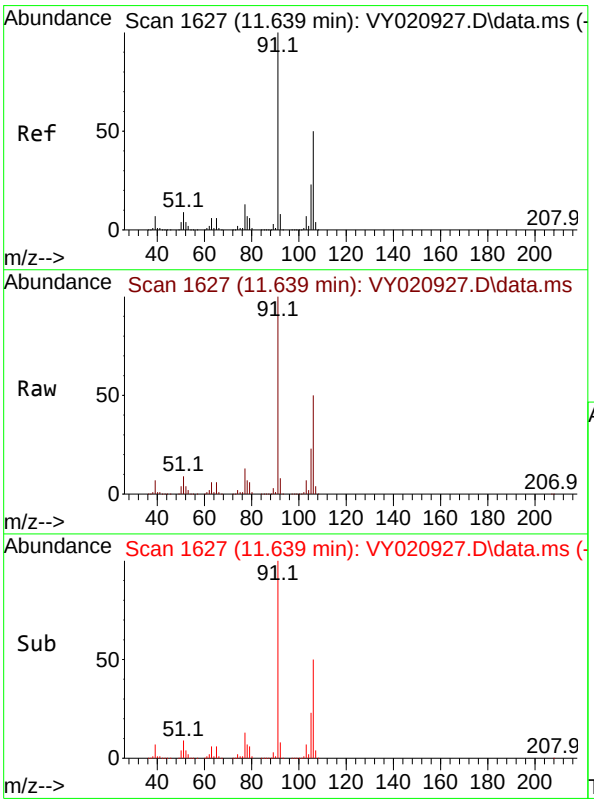
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.5 | 25.2 | 37.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

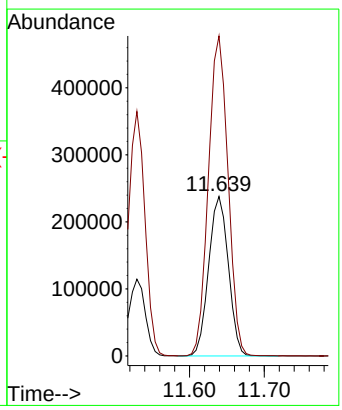


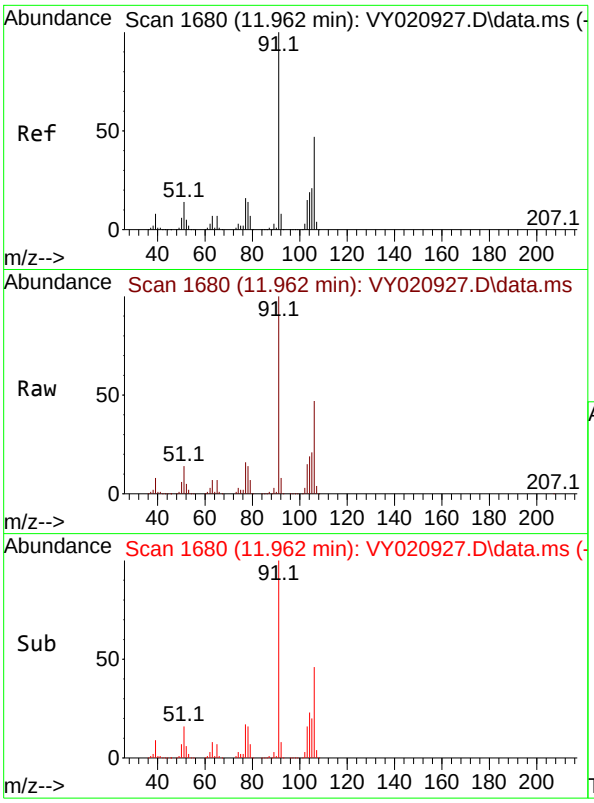




#68
m/p-Xylenes
Concen: 103.192 ug/l
RT: 11.639 min Scan# 1627
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:106 Resp: 435667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 199.4 | 159.5 | 239.3 |






#69
o-Xylene
Concen: 51.760 ug/l
RT: 11.962 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

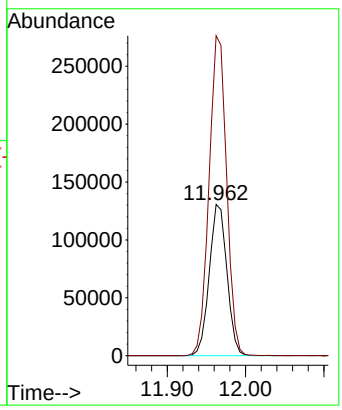
Tgt Ion:106 Resp: 20412

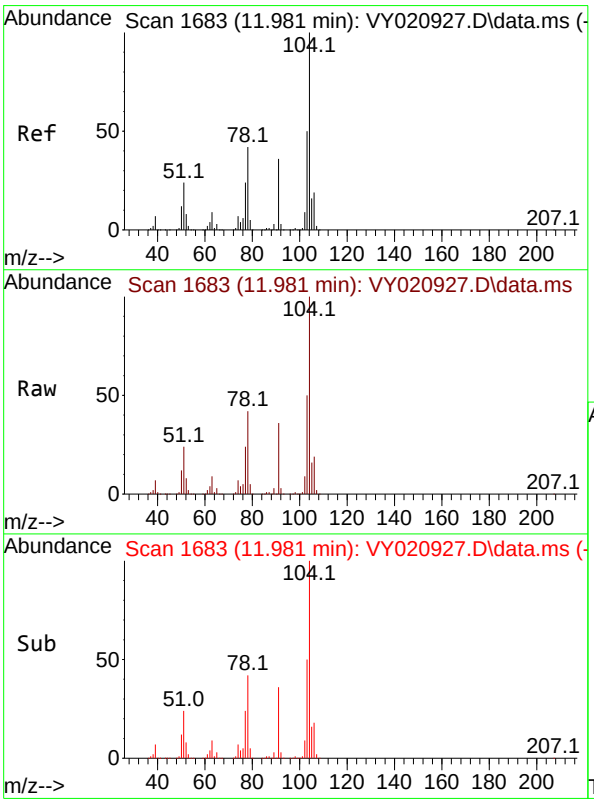
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.6 | 105.3 | 315.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

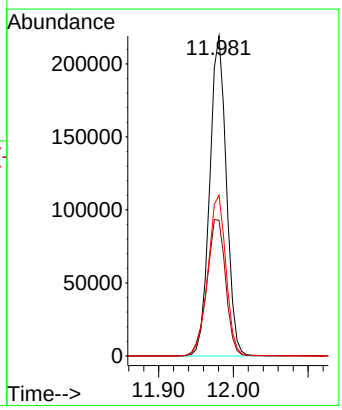


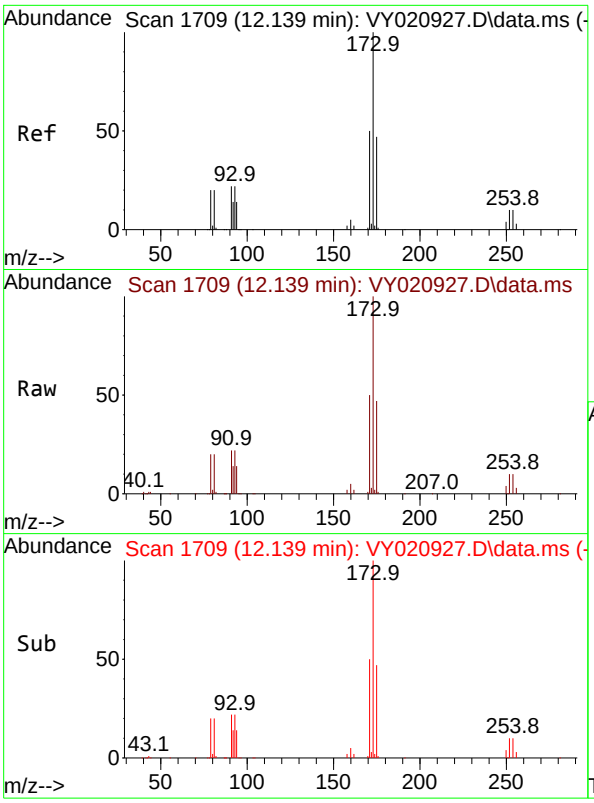




#70
Styrene
Concen: 52.709 ug/l
RT: 11.981 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:104 Resp: 340665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.1 | 38.5 | 57.7 |
| 103 | 54.3 | 43.4 | 65.2 |






#71
Bromoform
Concen: 52.862 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

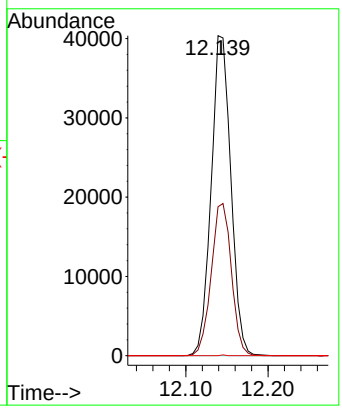
Tgt Ion:173 Resp: 6721

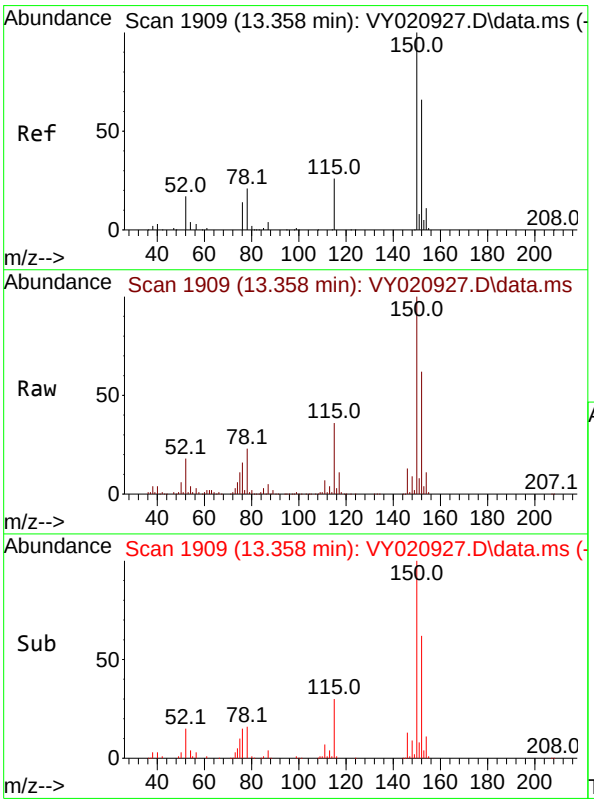
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.7 | 24.3 | 73.0 |
| 254 | 0.1 | 0.1 | 0.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

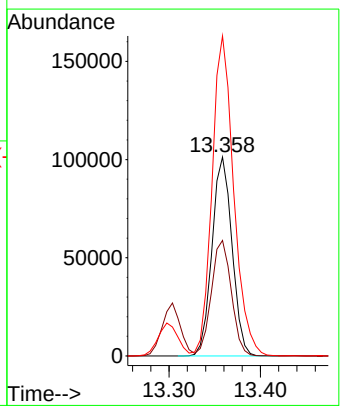


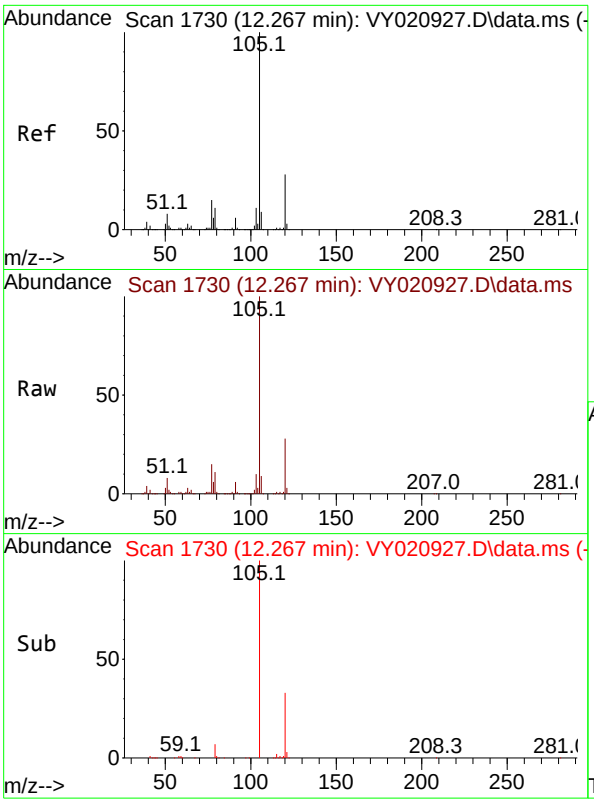




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.358 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:152 Resp: 154661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.0 | 29.0 | 87.0 |
| 150 | 173.8 | 0.0 | 347.6 |






#73
Isopropylbenzene
Concen: 51.713 ug/l
RT: 12.267 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

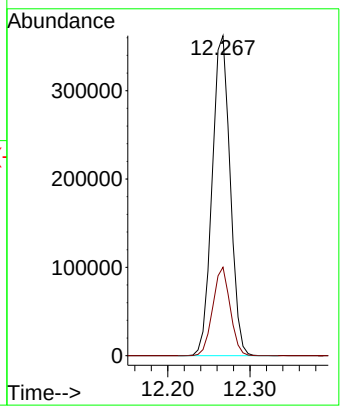
Tgt Ion:105 Resp: 55083

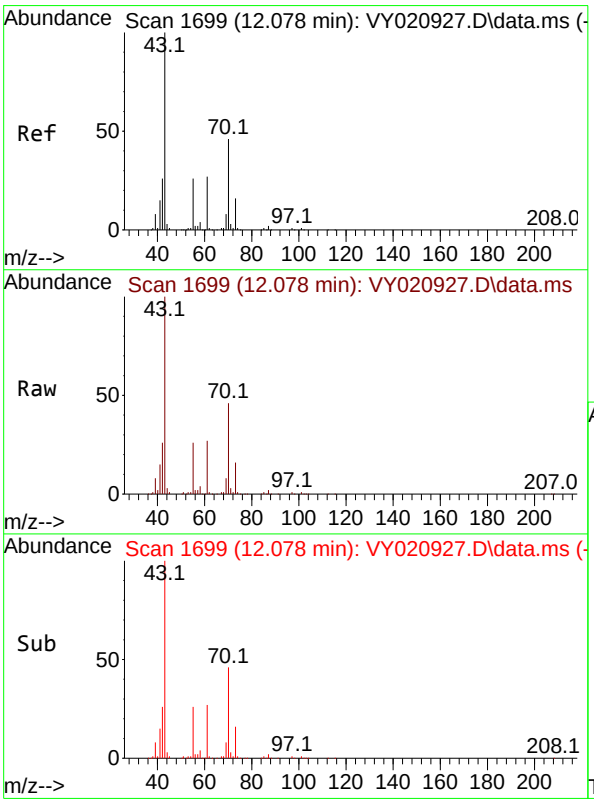
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.7 | 13.4 | 40.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

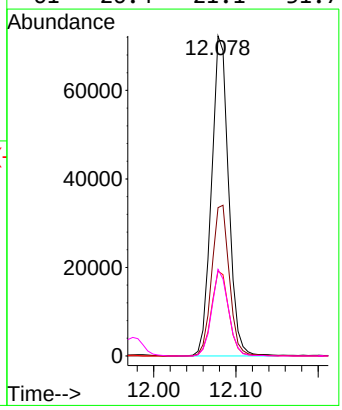


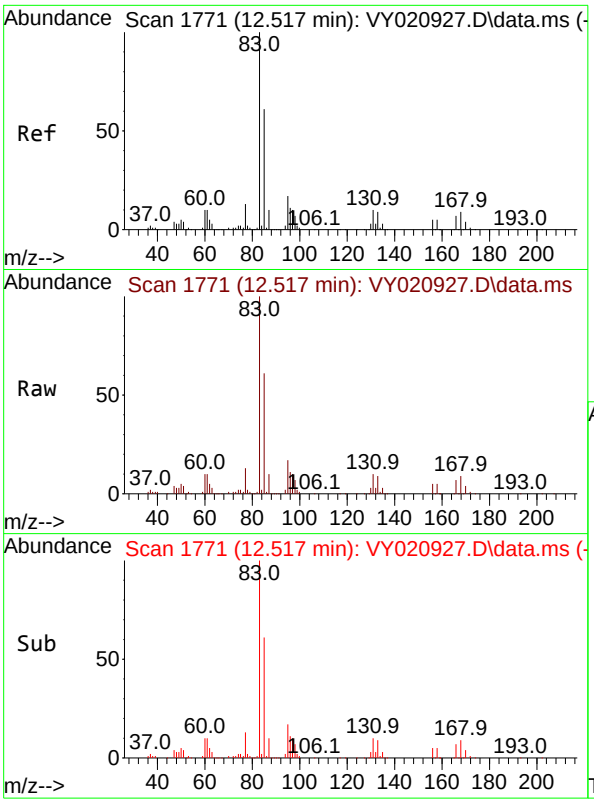




#74
N-amyl acetate
Concen: 55.044 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 43 Resp: 104331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 48.4 | 38.7 | 58.1 |
| 55 | 27.0 | 21.6 | 32.4 |
| 61 | 26.4 | 21.1 | 31.7 |






#75
1,1,2,2-Tetrachloroethane
Concen: 53.188 ug/l
RT: 12.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

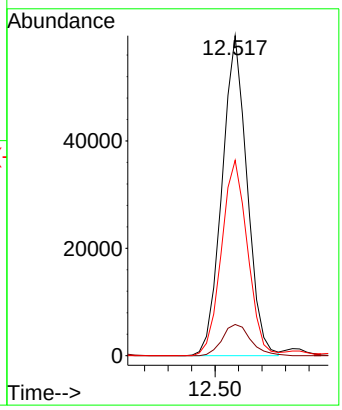
Tgt Ion: 83 Resp: 8814

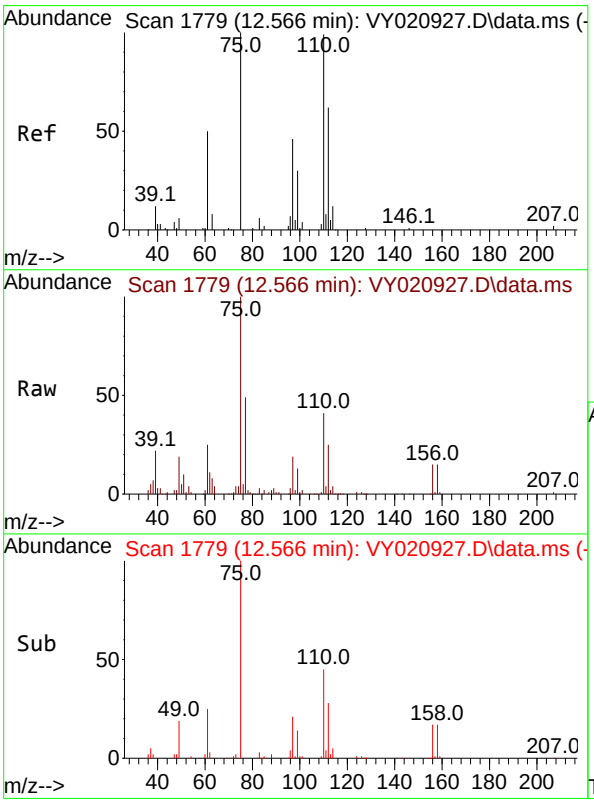
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.1 | 5.5 | 16.7 |
| 85 | 63.6 | 31.8 | 95.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

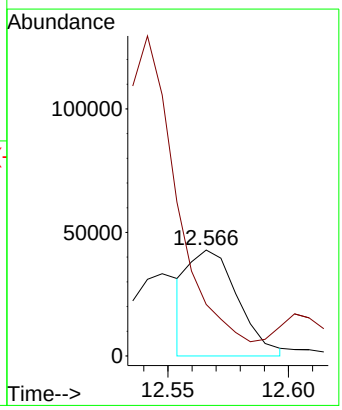


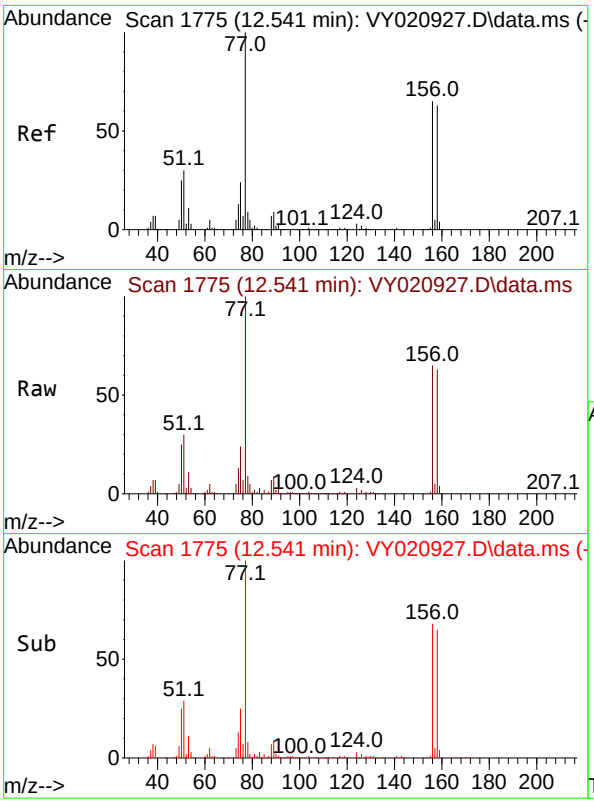




#76
1,2,3-Trichloropropane
Concen: 55.845 ug/l m
RT: 12.566 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 75 Resp: 61067

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






#77
Bromobenzene
Concen: 51.465 ug/l
RT: 12.541 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

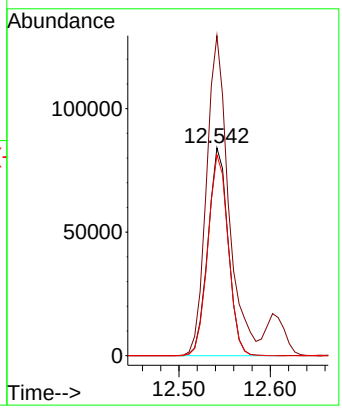
Tgt Ion:156 Resp: 12850

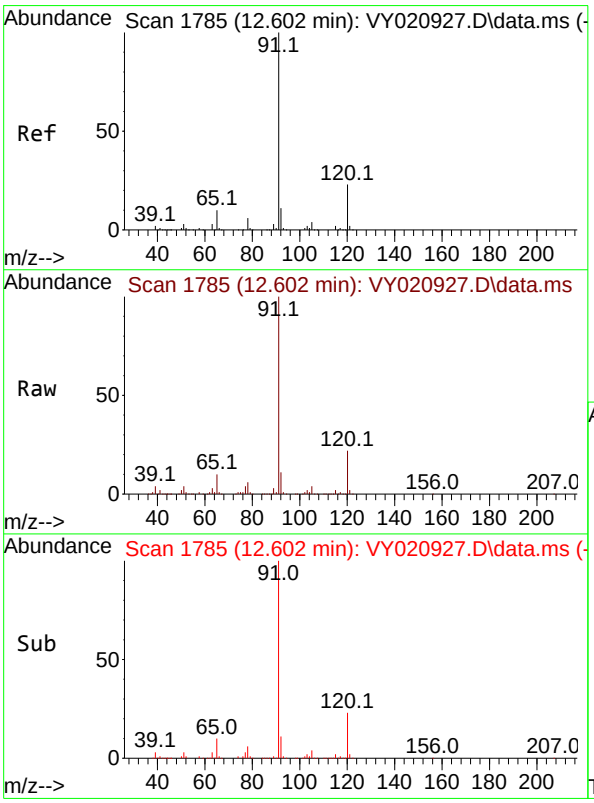
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 168.7 | 84.4 | 253.1 |
| 158 | 97.7 | 48.9 | 146.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

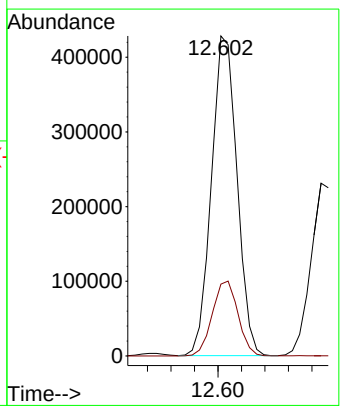


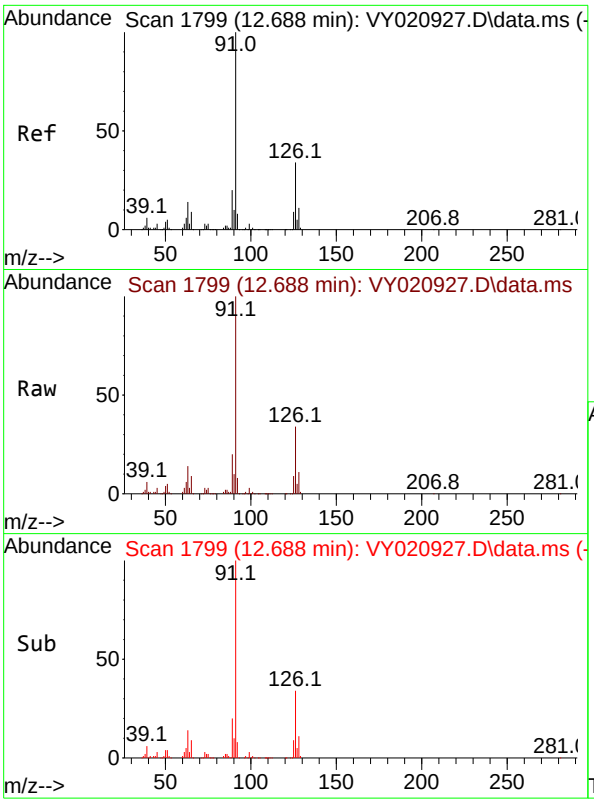




#78
n-propylbenzene
Concen: 52.174 ug/l
RT: 12.602 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 91 Resp: 647351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.6 | 11.8 | 35.4 |






#79
2-Chlorotoluene
Concen: 51.084 ug/l
RT: 12.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

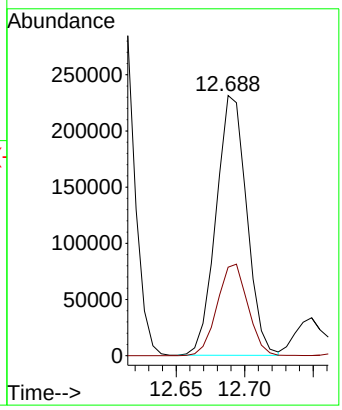
Tgt Ion: 91 Resp: 35948

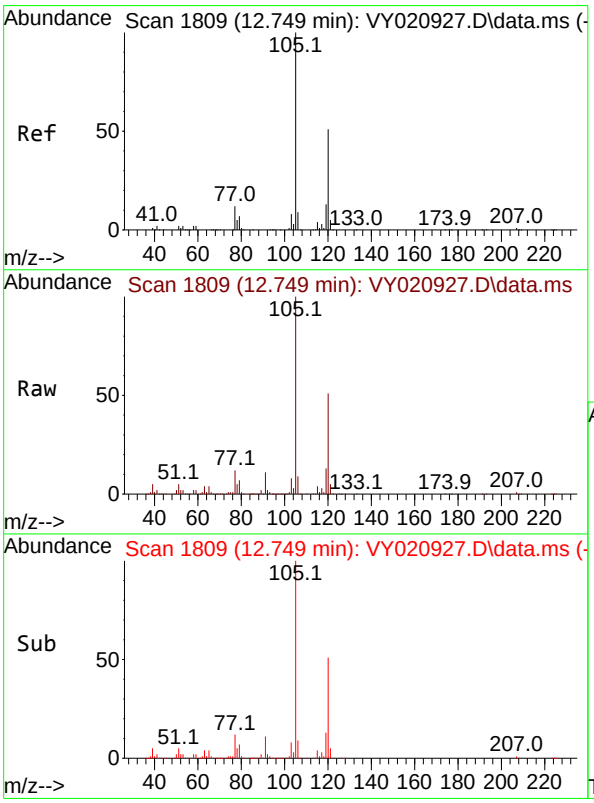
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.3 | 17.6 | 52.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

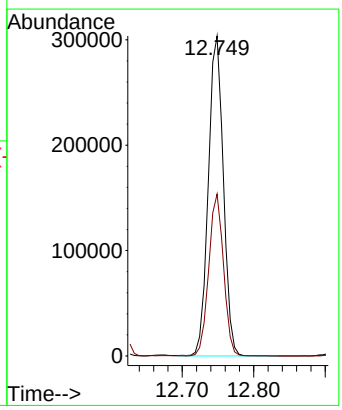


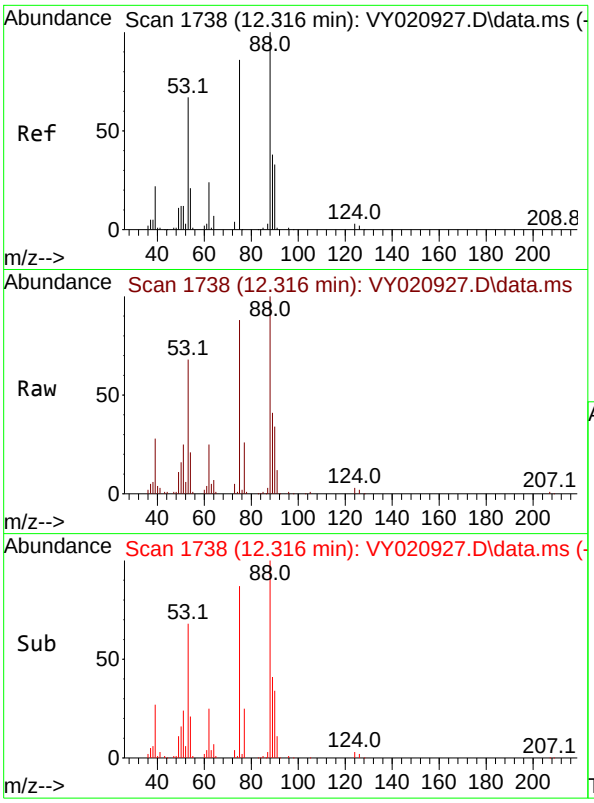




#80
1,3,5-Trimethylbenzene
Concen: 51.738 ug/l
RT: 12.749 min Scan# 1809
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:105 Resp: 442823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.7 | 24.9 | 74.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 54.355 ug/l
RT: 12.316 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

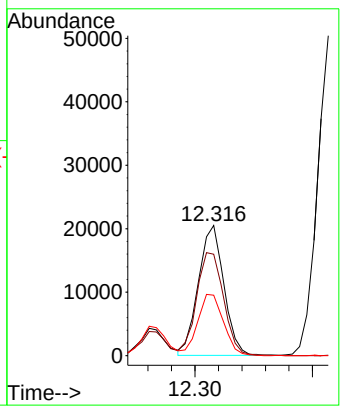
Tgt Ion: 75 Resp: 3076

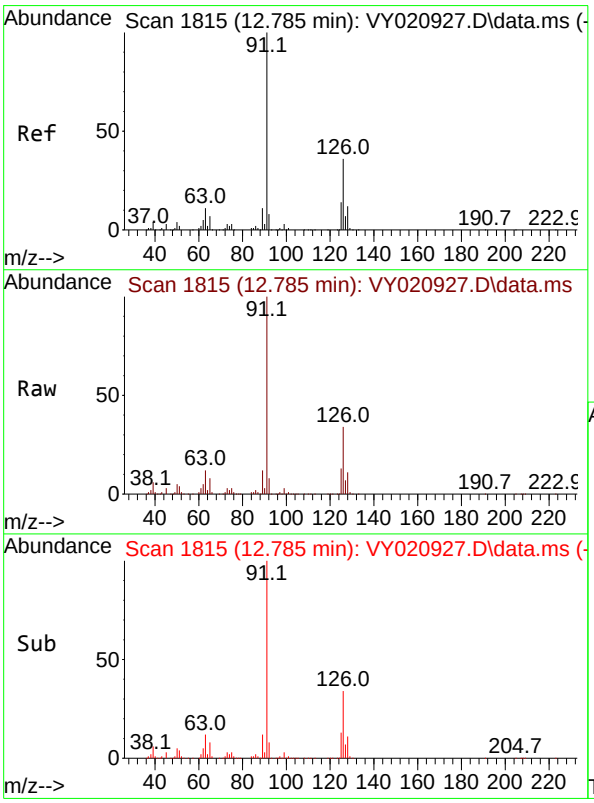
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 84.6 | 67.7 | 101.5 |
| 89 | 48.0 | 38.4 | 57.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

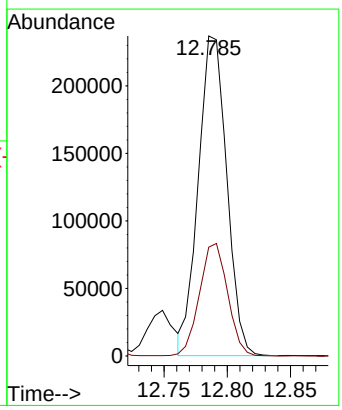


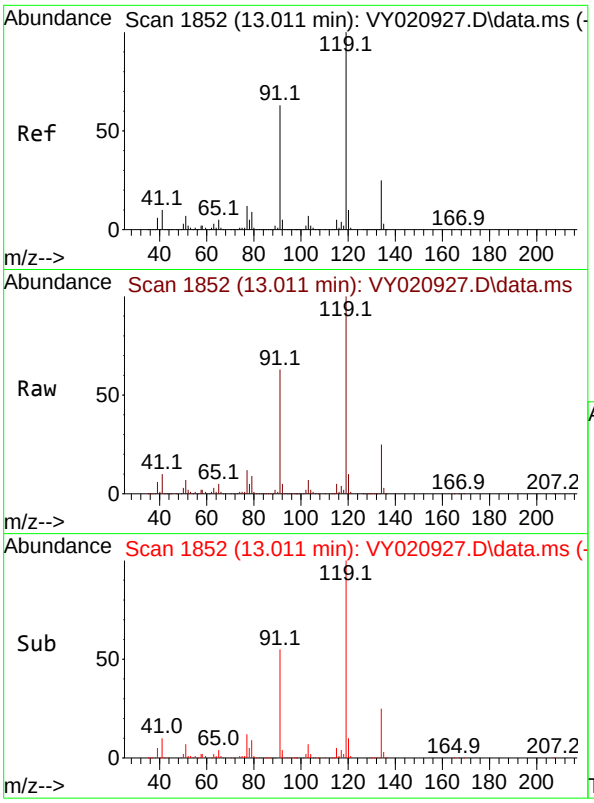




#82
4-Chlorotoluene
Concen: 51.602 ug/l
RT: 12.785 min Scan# 1815
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 91 Resp: 370813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.9 | 17.4 | 52.3 |






#83
tert-Butylbenzene
Concen: 52.822 ug/l
RT: 13.011 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:119 Resp: 41700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 61.9 | 30.9 | 92.8 |
| 134 | 26.2 | 13.1 | 39.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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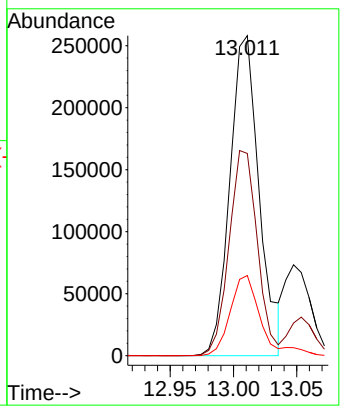
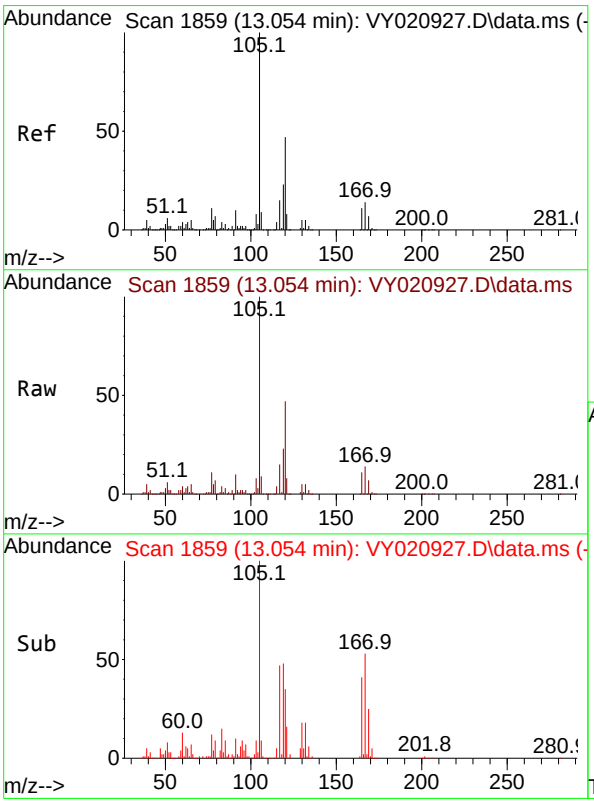
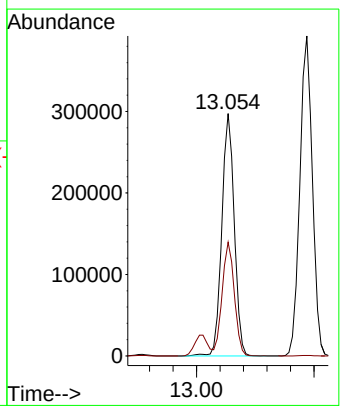


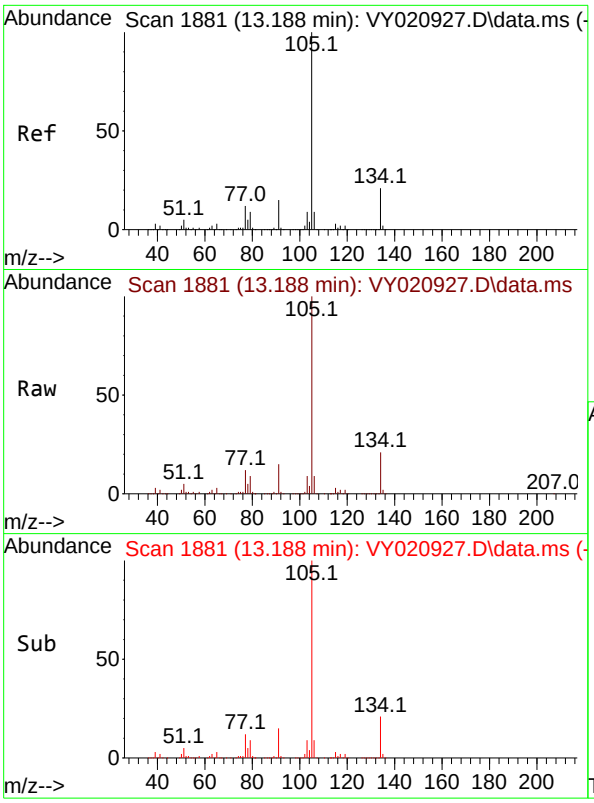




#84
1,2,4-Trimethylbenzene
Concen: 51.941 ug/l
RT: 13.054 min Scan# 1859
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:105 Resp: 437648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.8 | 22.9 | 68.7 |






#85
sec-Butylbenzene
Concen: 51.453 ug/l
RT: 13.188 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

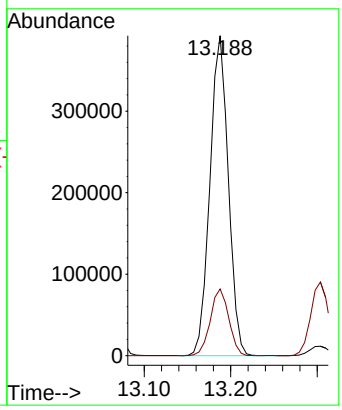
Tgt Ion:105 Resp: 57913

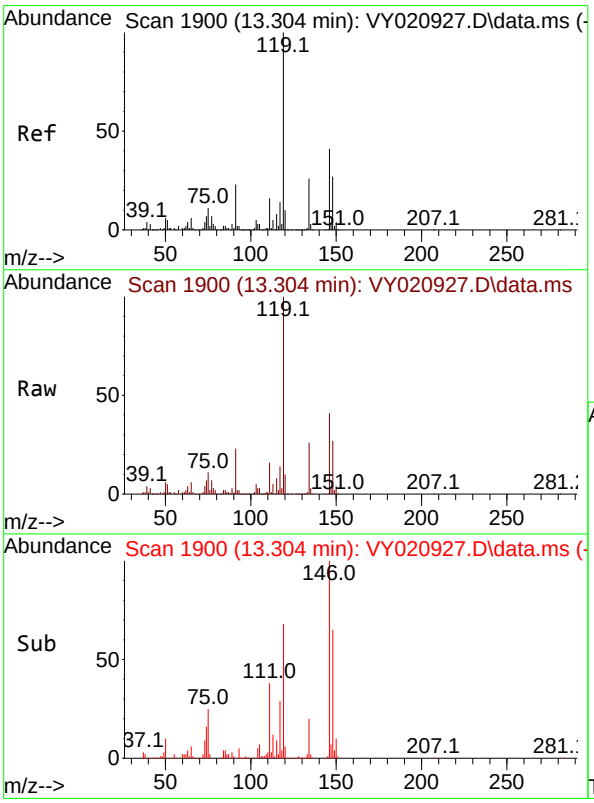
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.9 | 10.4 | 31.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

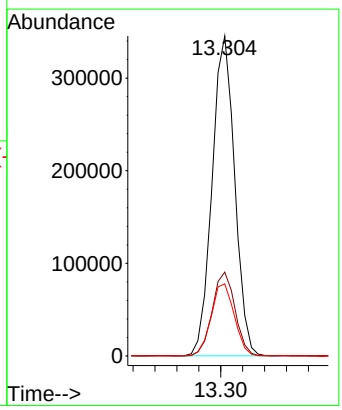


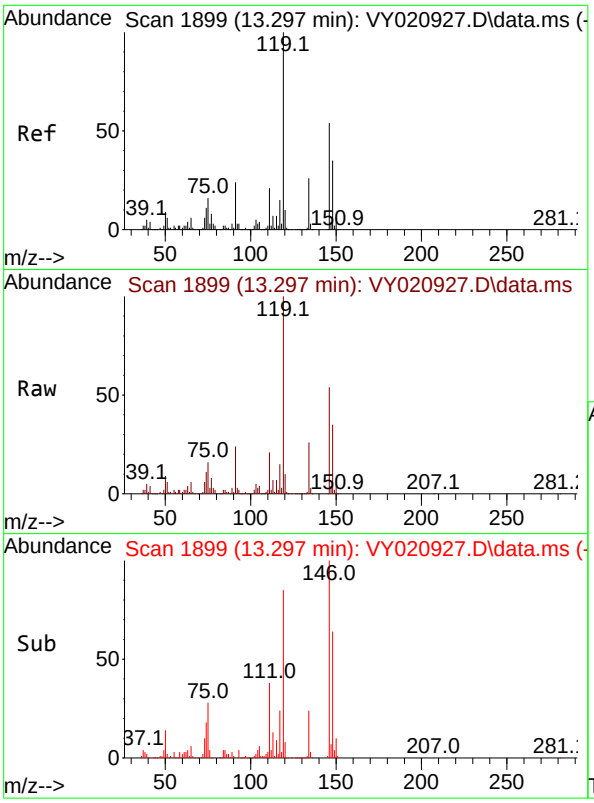




#86
p-Isopropyltoluene
Concen: 51.945 ug/l
RT: 13.304 min Scan# 1900
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:119 Resp: 493959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 13.3 | 39.8 |
| 91 | 23.1 | 11.6 | 34.7 |






#87
1,3-Dichlorobenzene
Concen: 51.366 ug/l
RT: 13.297 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

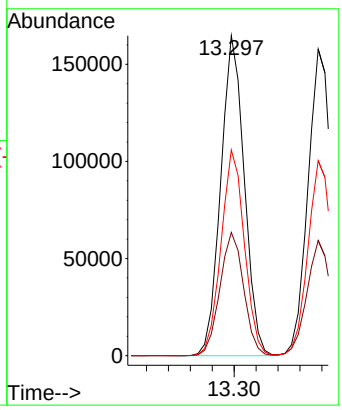
Tgt Ion:146 Resp: 24559

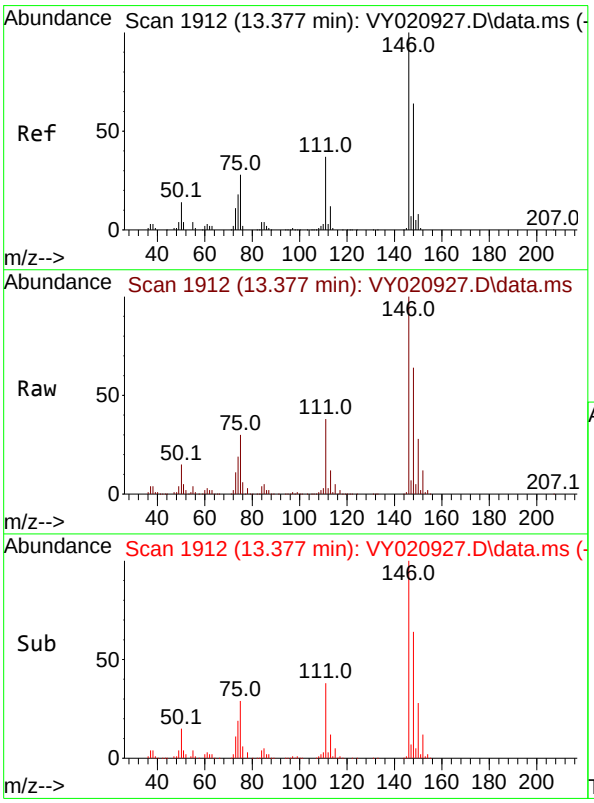
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.8 | 19.4 | 58.2 |
| 148 | 63.8 | 31.9 | 95.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

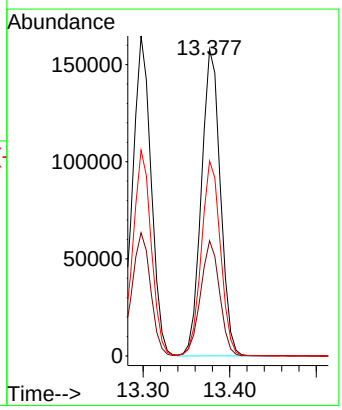


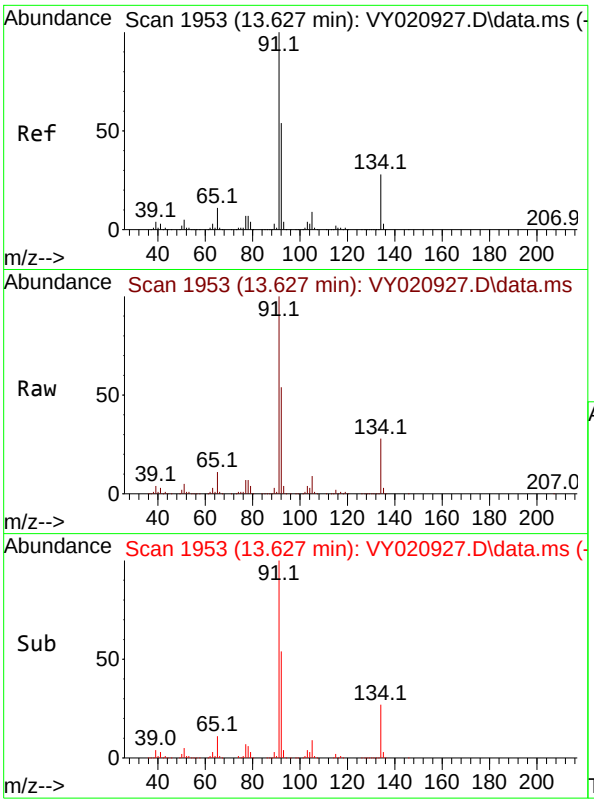




#88
1,4-Dichlorobenzene
Concen: 51.189 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:146 Resp: 240422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.6 | 18.8 | 56.4 |
| 148 | 64.0 | 32.0 | 96.0 |






#89
n-Butylbenzene
Concen: 52.532 ug/l
RT: 13.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

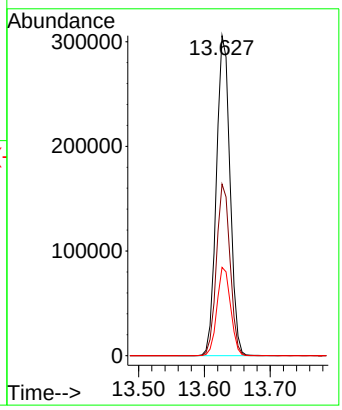
Tgt Ion: 91 Resp: 44063

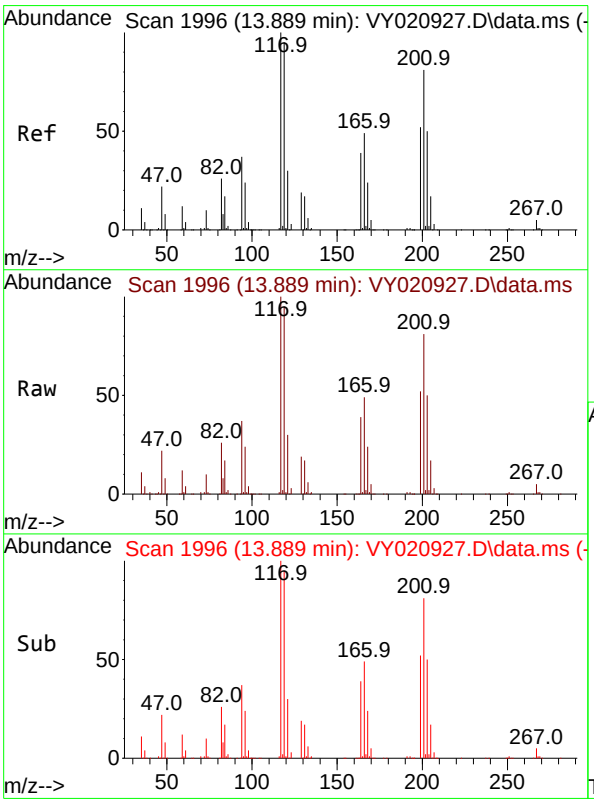
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.5 | 26.8 | 80.3 |
| 134 | 27.6 | 13.8 | 41.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

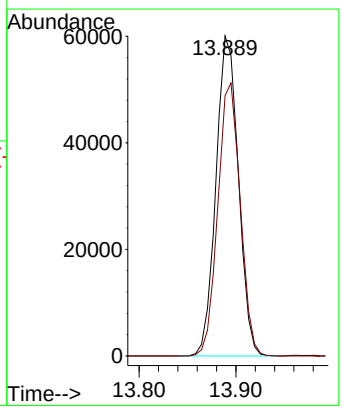


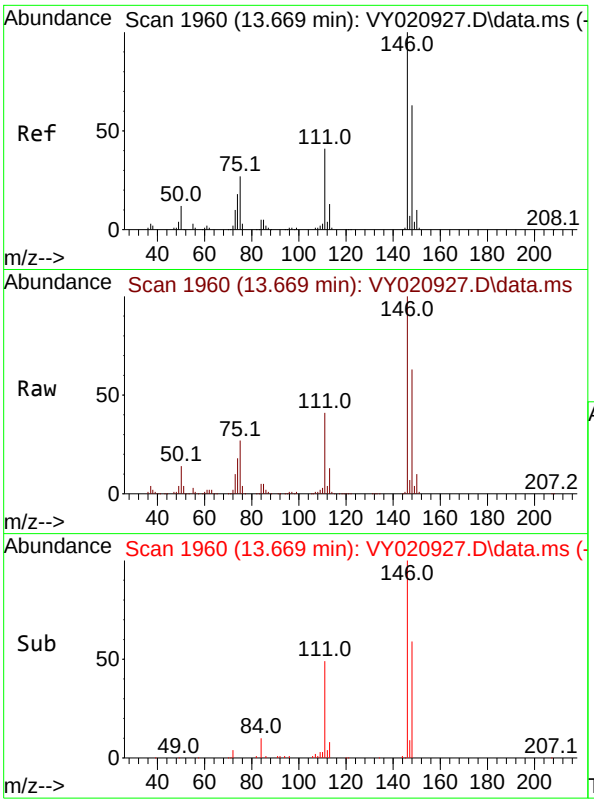




#90
Hexachloroethane
Concen: 51.115 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:117 Resp: 96557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 85.4 | 42.7 | 128.1 |






#91
1,2-Dichlorobenzene
Concen: 51.753 ug/l
RT: 13.669 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

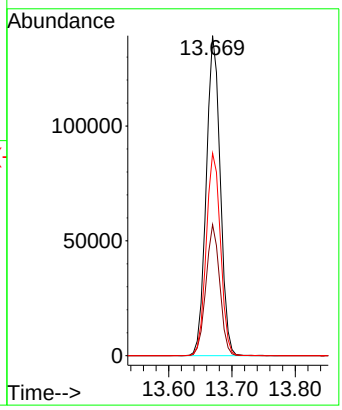
Tgt Ion:146 Resp: 21438

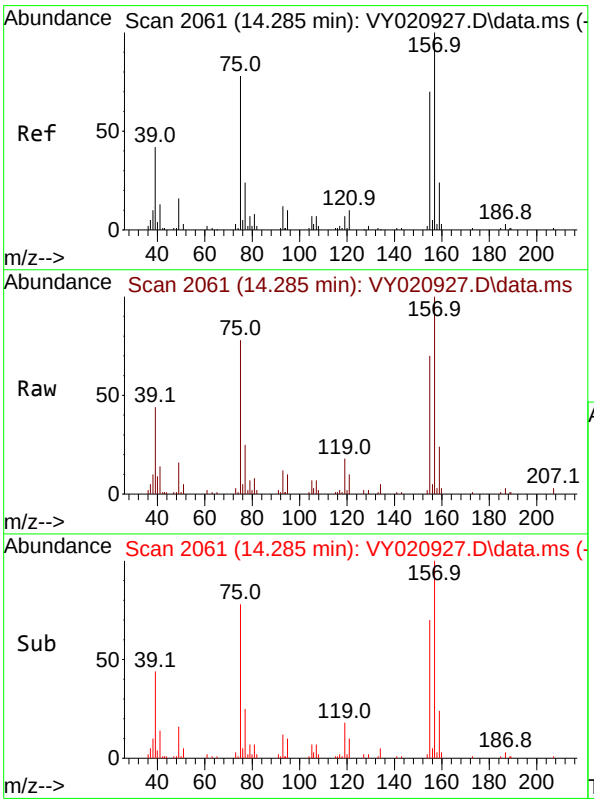
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.4 | 20.2 | 60.6 |
| 148 | 64.4 | 32.2 | 96.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

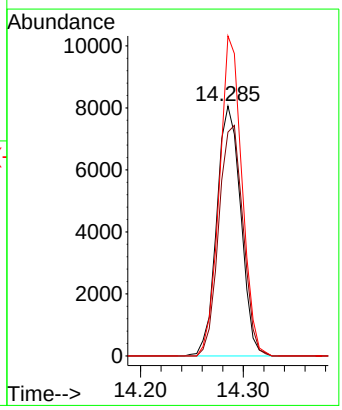


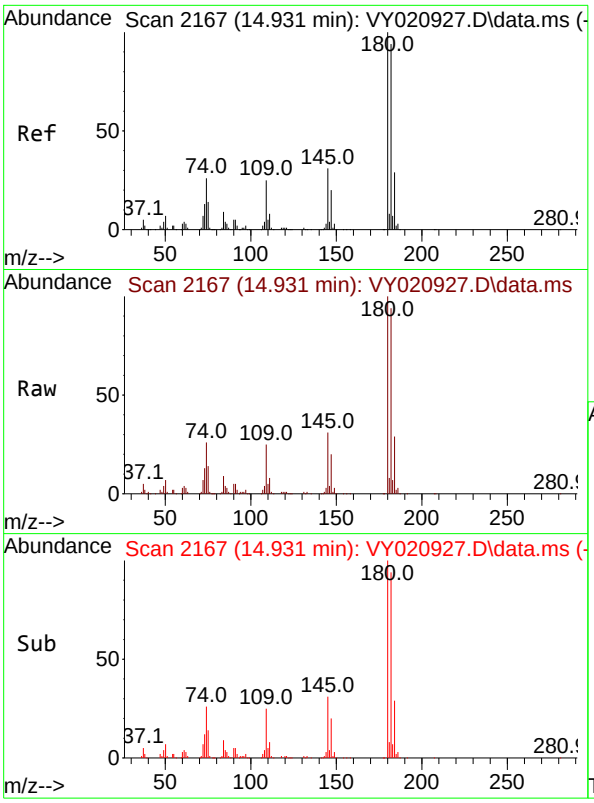




#92
1,2-Dibromo-3-Chloropropane
Concen: 52.496 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion: 75 Resp: 13070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 93.1 | 46.6 | 139.7 |
| 157 | 120.2 | 60.1 | 180.3 |






#93
1,2,4-Trichlorobenzene
Concen: 52.105 ug/l
RT: 14.931 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

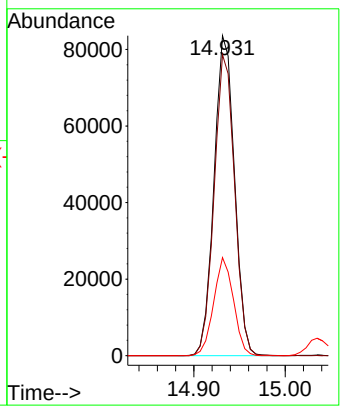
Tgt Ion:180 Resp: 12984

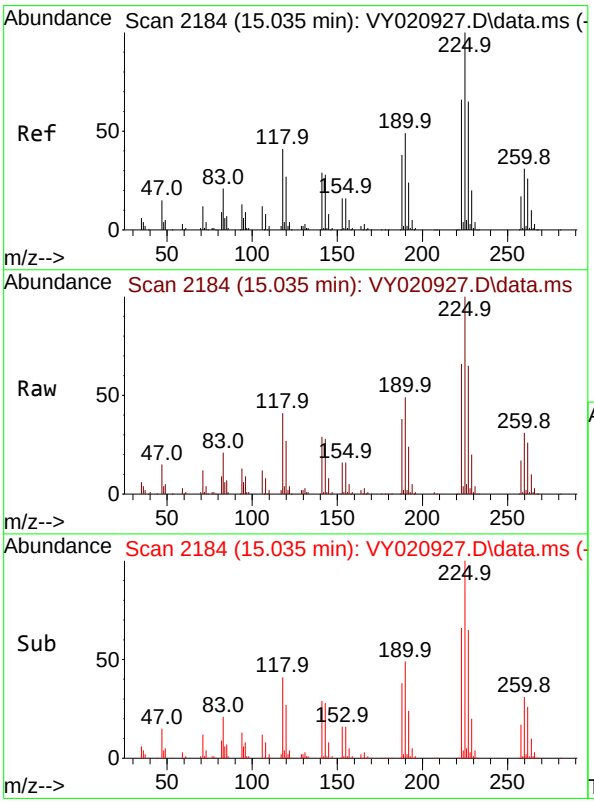
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.1 | 47.0 | 141.2 |
| 145 | 29.7 | 14.9 | 44.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

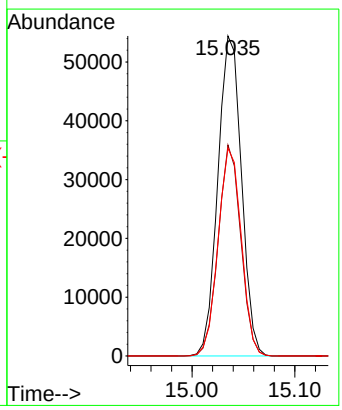


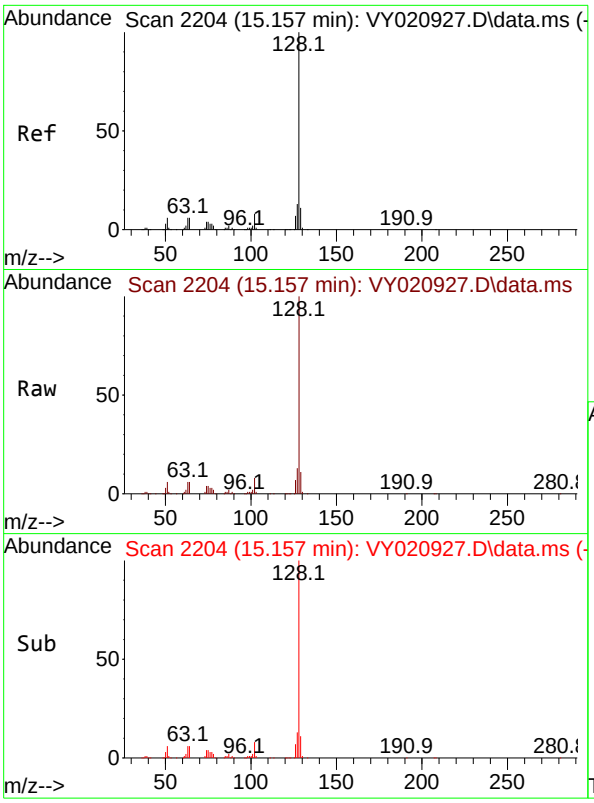




#94
Hexachlorobutadiene
Concen: 50.816 ug/l
RT: 15.035 min Scan# 2184
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:225 Resp: 86640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.0 | 31.5 | 94.5 |
| 227 | 63.9 | 31.9 | 95.9 |






#95
Naphthalene
Concen: 54.053 ug/l
RT: 15.157 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

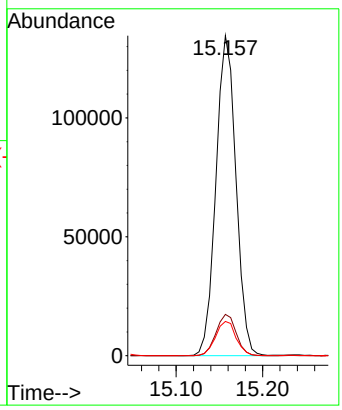
Tgt Ion:128 Resp: 21600

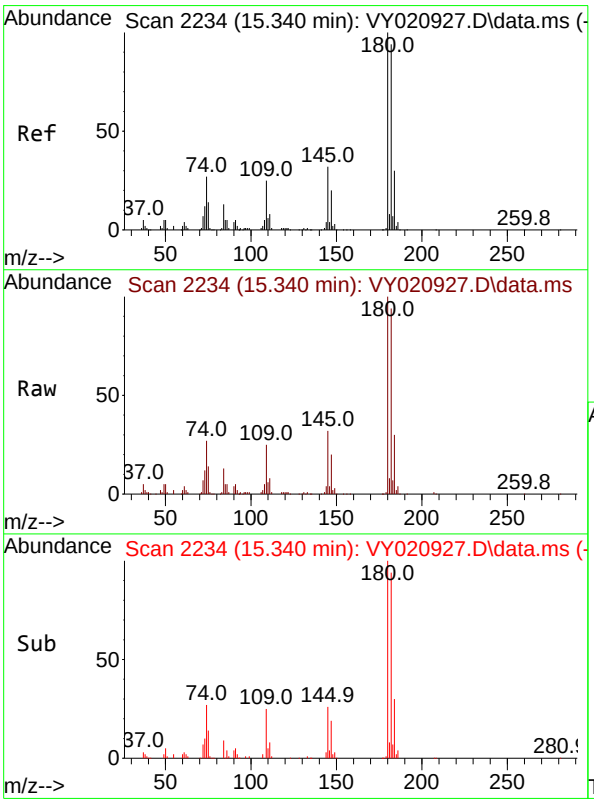
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.3 | 15.5 |
| 129 | 11.0 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

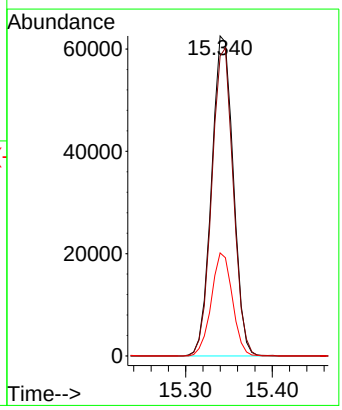



#96
1,2,3-Trichlorobenzene
Concen: 51.991 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020927.D
Acq: 24 Jan 2025 14:03

Tgt Ion:180 Resp: 108849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 47.5 | 142.6 |
| 145 | 31.3 | 15.7 | 47.0 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020928.D
Acq On : 24 Jan 2025 14:27
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 25 00:47:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

01/27/2025
Supervised By :Mahesh Badoda

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.720 | 168 | 282540 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 407800 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 349414 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.359 | 152 | 166827 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 208610 | 92.604 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 185.200%# | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 224939 | 96.082 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 192.160%# | | | |
| 50) Toluene-d8 | 10.115 | 98 | 881343 | 97.056 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 194.120%# | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 292974 | 96.943 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 193.880%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 189405 | 88.631 | ug/l | 98 |
| 3) Chloromethane | 2.074 | 50 | 133985 | 84.298 | ug/l | 99 |
| 4) Vinyl Chloride | 2.214 | 62 | 153325 | 88.510 | ug/l | 99 |
| 5) Bromomethane | 2.605 | 94 | 94286 | 80.360 | ug/l | 99 |
| 6) Chloroethane | 2.745 | 64 | 89293 | 87.860 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 328980 | 89.383 | ug/l | 96 |
| 8) Diethyl Ether | 3.464 | 74 | 99004 | 87.522 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 215677 | 88.810 | ug/l | 99 |
| 10) Methyl Iodide | 4.019 | 142 | 274036 | 94.685 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.885 | 59 | 57512 | 330.716 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.806 | 96 | 206431 | 90.009 | ug/l | 97 |
| 13) Acrolein | 3.665 | 56 | 111679 | 473.717 | ug/l | 99 |
| 14) Allyl chloride | 4.397 | 41 | 291746 | 91.141 | ug/l | 99 |
| 15) Acrylonitrile | 5.074 | 53 | 192677 | 433.320 | ug/l | 99 |
| 16) Acetone | 3.879 | 43 | 124962 | 409.423 | ug/l | 99 |
| 17) Carbon Disulfide | 4.123 | 76 | 638946 | 90.211 | ug/l | 99 |
| 18) Methyl Acetate | 4.397 | 43 | 95074 | 86.229 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.135 | 73 | 476229 | 89.651 | ug/l | 98 |
| 20) Methylene Chloride | 4.629 | 84 | 197385 | 86.956 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.135 | 96 | 219270 | 88.675 | ug/l | 97 |
| 22) Diisopropyl ether | 6.031 | 45 | 578872 | 89.904 | ug/l | 97 |
| 23) Vinyl Acetate | 5.976 | 43 | 1603784 | 450.057 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.933 | 63 | 365835 | 89.632 | ug/l | 99 |
| 25) 2-Butanone | 6.903 | 43 | 219468 | 424.490 | ug/l | 94 |
| 26) 2,2-Dichloropropane | 6.903 | 77 | 351871 | 87.525 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.903 | 96 | 253869 | 90.970 | ug/l | 98 |
| 28) Bromochloromethane | 7.262 | 49 | 167265 | 101.825 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.274 | 42 | 149724 | 434.525 | ug/l | 99 |
| 30) Chloroform | 7.433 | 83 | 385461 | 89.231 | ug/l | 98 |
| 31) Cyclohexane | 7.713 | 56 | 341752 | 85.192 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 374729 | 89.432 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.848 | 75 | 294814 | 90.195 | ug/l | 100 |
| 37) Ethyl Acetate | 6.994 | 43 | 107870 | 85.060 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 357344 | 90.655 | ug/l | 99 |
| 39) Methylcyclohexane | 9.122 | 83 | 409823 | 92.613 | ug/l | 98 |
| 40) Benzene | 8.091 | 78 | 865598 | 90.267 | ug/l | 98 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020928.D
Acq On : 24 Jan 2025 14:27
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 25 00:47:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

01/27/2025
Supervised By :Mahesh Dadoda

01/27/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 56225 | 83.928 ug/l | 94 |
| 42) 1,2-Dichloroethane | 8.171 | 62 | 213394 | 89.434 ug/l | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 219926 | 91.453 ug/l | 100 |
| 44) Trichloroethene | 8.878 | 130 | 236860 | 90.920 ug/l | 97 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 192102 | 90.754 ug/l | 95 |
| 46) Dibromomethane | 9.244 | 93 | 109628 | 91.101 ug/l | 100 |
| 47) Bromodichloromethane | 9.433 | 83 | 291669 | 91.093 ug/l | 97 |
| 48) Methyl methacrylate | 9.231 | 41 | 105979 | 93.423 ug/l | 99 |
| 49) 1,4-Dioxane | 9.244 | 88 | 21222 | 1712.802 ug/l | 90 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 538072 | 443.751 ug/l | 98 |
| 52) Toluene | 10.182 | 92 | 564309 | 91.501 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 273986 | 93.326 ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 322850 | 92.097 ug/l | 99 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 145718 | 89.583 ug/l | 99 |
| 56) Ethyl methacrylate | 10.445 | 69 | 204882 | 96.109 ug/l | 99 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 248600 | 89.965 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 485670 | 501.962 ug/l | 99 |
| 59) 2-Hexanone | 10.768 | 43 | 362194 | 464.523 ug/l | 100 |
| 60) Dibromochloromethane | 10.920 | 129 | 209354 | 91.449 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 138031 | 88.720 ug/l | 99 |
| 64) Tetrachloroethene | 10.658 | 164 | 217960 | 89.636 ug/l | 97 |
| 65) Chlorobenzene | 11.451 | 112 | 615992 | 90.152 ug/l | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 216799 | 89.289 ug/l | 100 |
| 67) Ethyl Benzene | 11.530 | 91 | 1093665 | 91.728 ug/l | 100 |
| 68) m/p-Xylenes | 11.640 | 106 | 832825 | 182.420 ug/l | 99 |
| 69) o-Xylene | 11.963 | 106 | 390419 | 91.551 ug/l | 99 |
| 70) Styrene | 11.981 | 104 | 647407 | 92.633 ug/l | 99 |
| 71) Bromoform | 12.139 | 173 | 123511 | 89.832 ug/l # | 100 |
| 73) Isopropylbenzene | 12.261 | 105 | 1050644 | 91.442 ug/l | 100 |
| 74) N-amyl acetate | 12.078 | 43 | 194951 | 95.353 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.517 | 83 | 156451 | 87.516 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.566 | 75 | 103209m | 87.500 ug/l | |
| 77) Bromobenzene | 12.542 | 156 | 242559 | 90.061 ug/l | 99 |
| 78) n-propylbenzene | 12.603 | 91 | 1218093 | 91.014 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 688504 | 90.703 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 839826 | 90.967 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 57206 | 93.700 ug/l | 98 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 691697 | 89.236 ug/l | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 776794 | 91.221 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.054 | 105 | 827928 | 91.094 ug/l | 100 |
| 85) sec-Butylbenzene | 13.182 | 105 | 1108307 | 91.286 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.304 | 119 | 941137 | 91.754 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.298 | 146 | 457480 | 88.704 ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 444967 | 87.830 ug/l | 99 |
| 89) n-Butylbenzene | 13.627 | 91 | 846273 | 93.535 ug/l | 99 |
| 90) Hexachloroethane | 13.889 | 117 | 188537 | 92.529 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 13.670 | 146 | 394224 | 88.227 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 23342 | 86.917 ug/l | 94 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 260768 | 97.012 ug/l | 100 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 171097 | 93.034 ug/l | 100 |
| 95) Naphthalene | 15.157 | 128 | 427889 | 99.269 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 217070 | 96.121 ug/l | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020928.D
Acq On : 24 Jan 2025 14:27
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 25 00:47:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

01/27/2025

Supervised By :Mahesh Dadoda

01/27/2025

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

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

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020928.D
Acq On : 24 Jan 2025 14:27
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 25 00:47:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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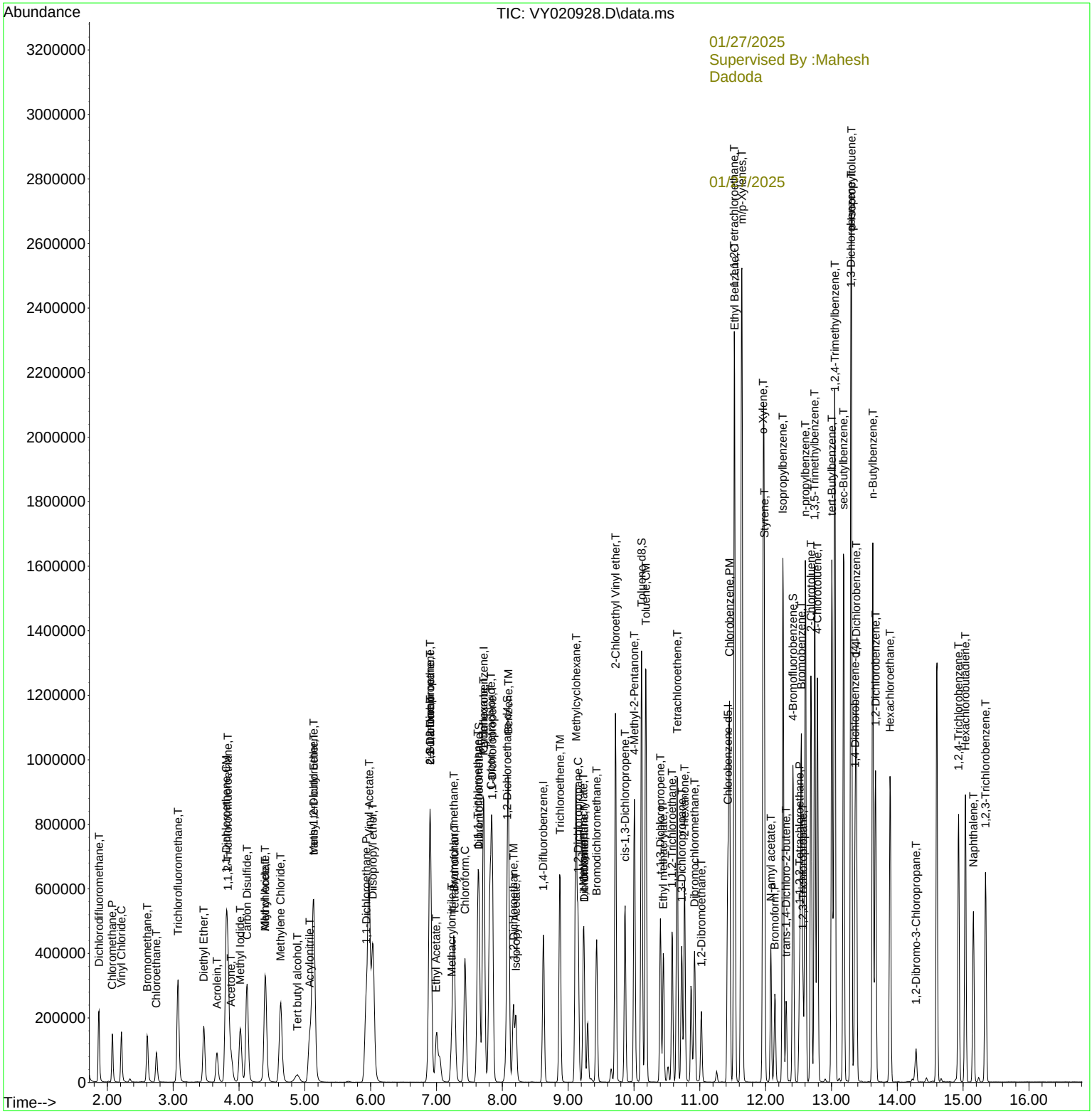

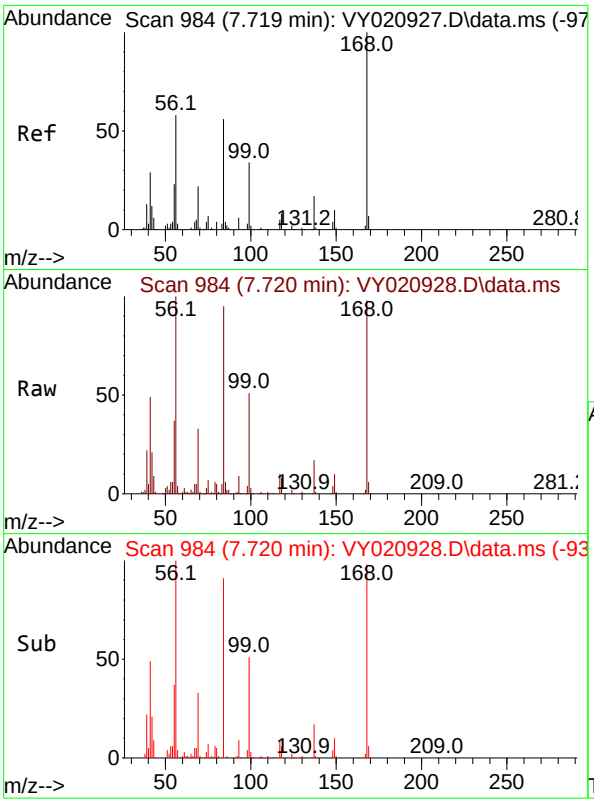


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:168 Resp: 28254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 52.3 | 43.0 | 64.6 |

**Instrument :**
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VSTDICC100

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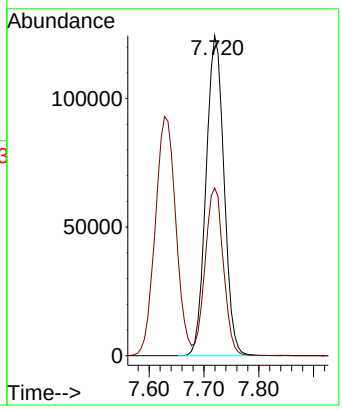
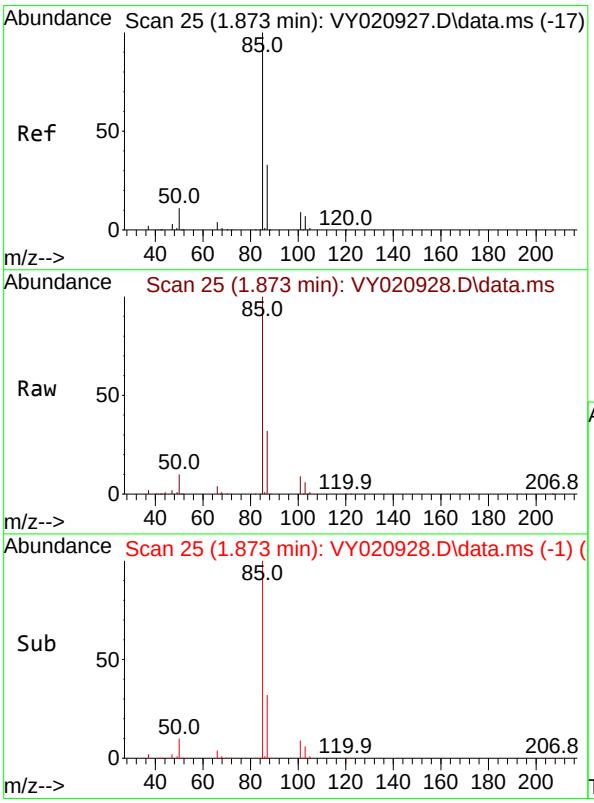
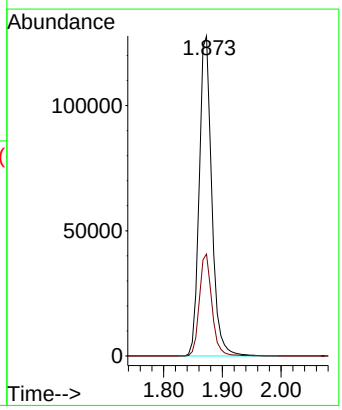


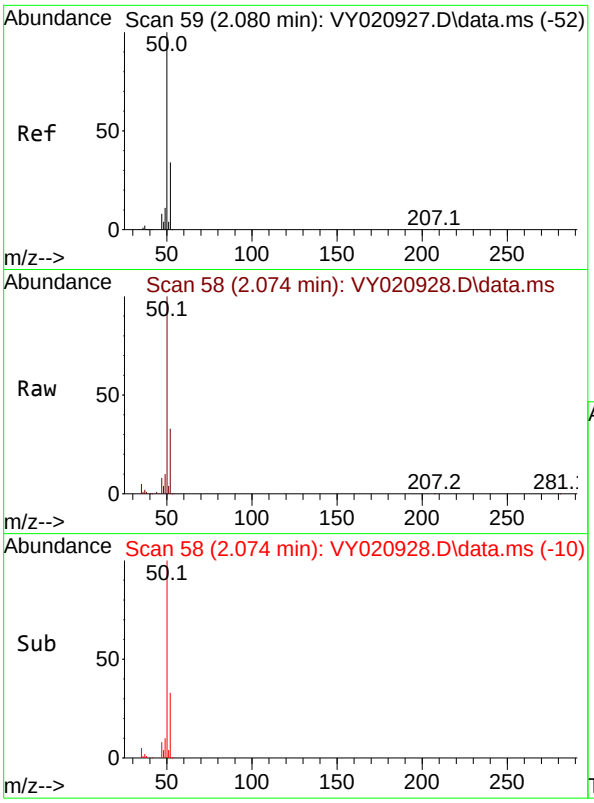




#2
Dichlorodifluoromethane
Concen: 88.631 ug/l
RT: 1.873 min Scan# 25
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 85 Resp: 189405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.8 | 16.6 | 49.8 |






#3
Chloromethane
Concen: 84.298 ug/l
RT: 2.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 50 Resp: 13398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.4 | 27.4 | 41.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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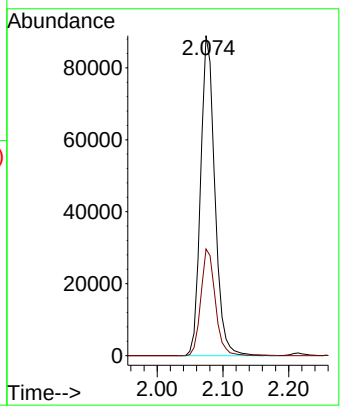
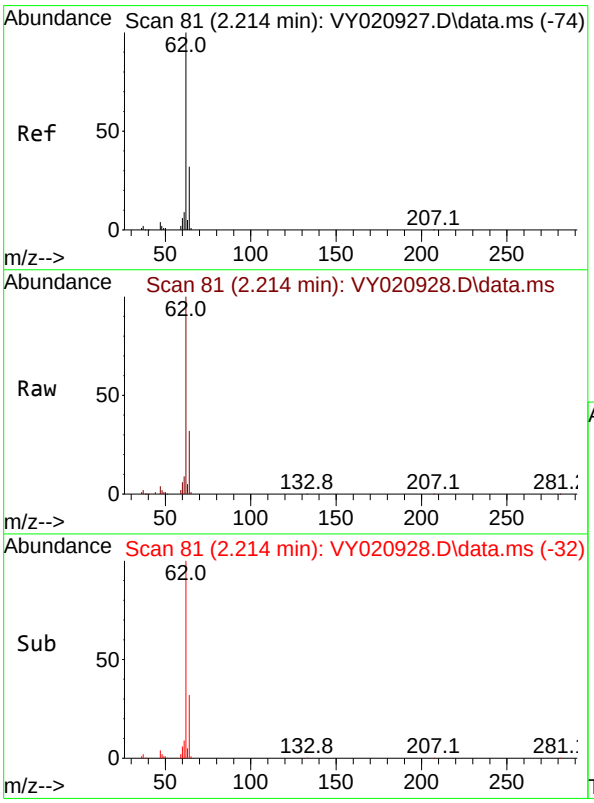
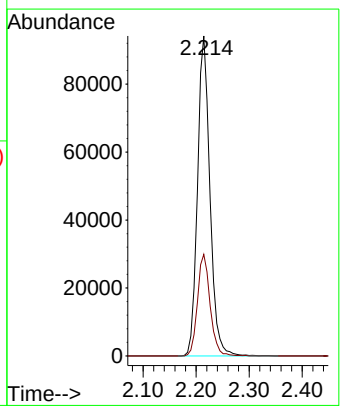


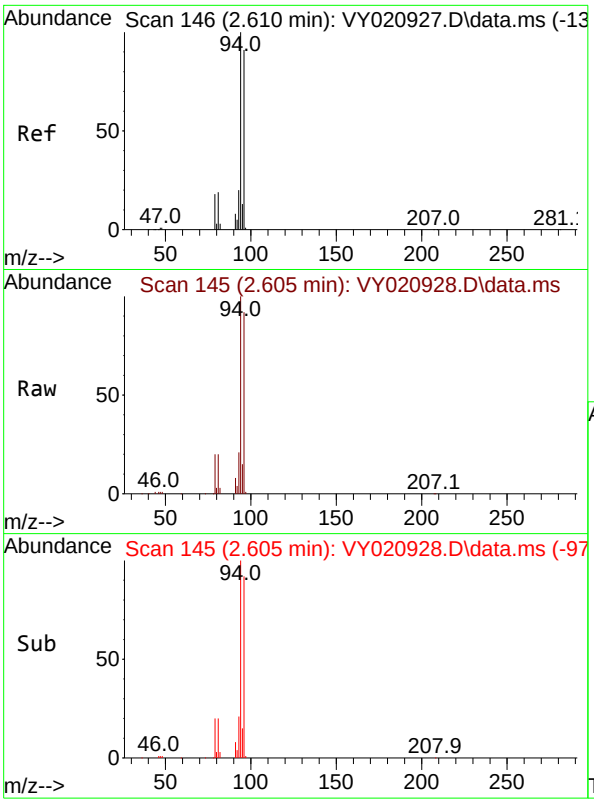




#4
Vinyl Chloride
Concen: 88.510 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 62 Resp: 153325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.7 | 25.7 | 38.5 |






#5
Bromomethane
Concen: 80.360 ug/l
RT: 2.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 94 Resp: 9428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.0 | 72.6 | 109.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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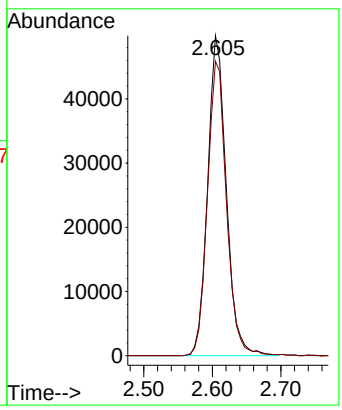
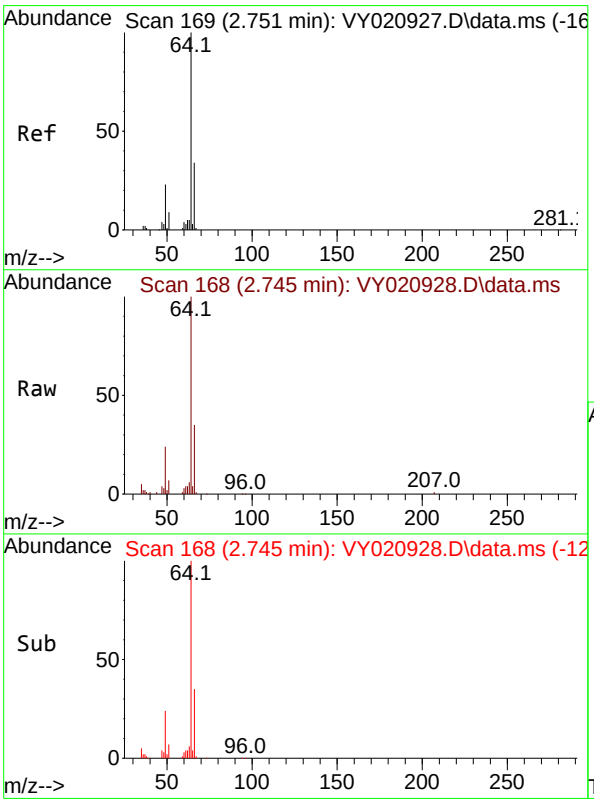
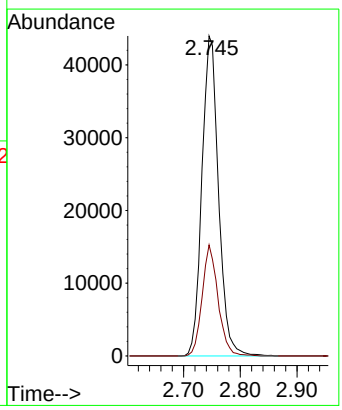


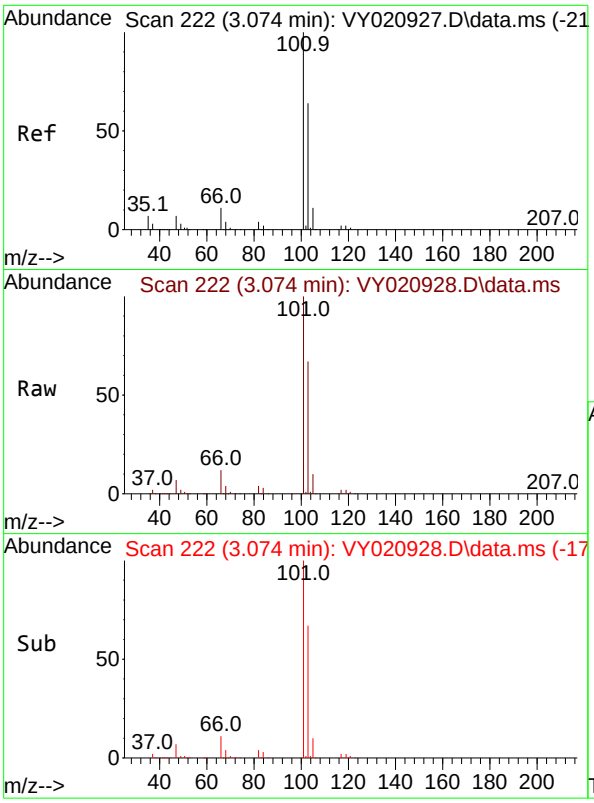




#6
Chloroethane
Concen: 87.860 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 64 Resp: 89293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.7 | 26.9 | 40.3 |






#7
Trichlorofluoromethane
Concen: 89.383 ug/l
RT: 3.074 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:101 Resp: 328980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.7 | 51.0 | 76.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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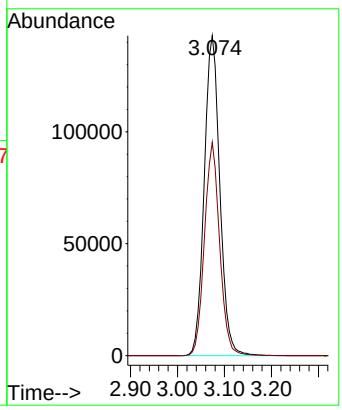
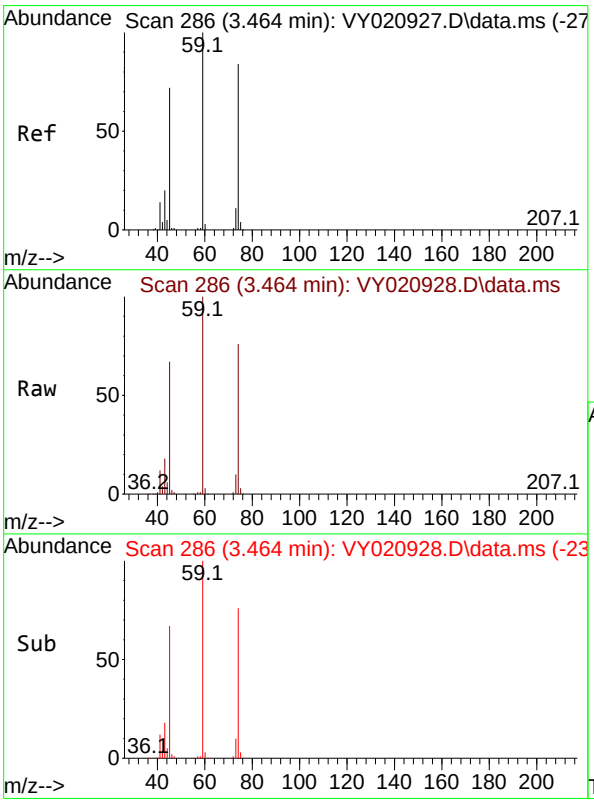
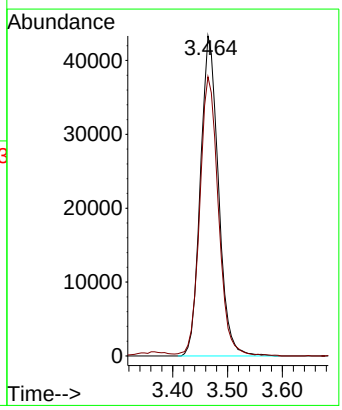


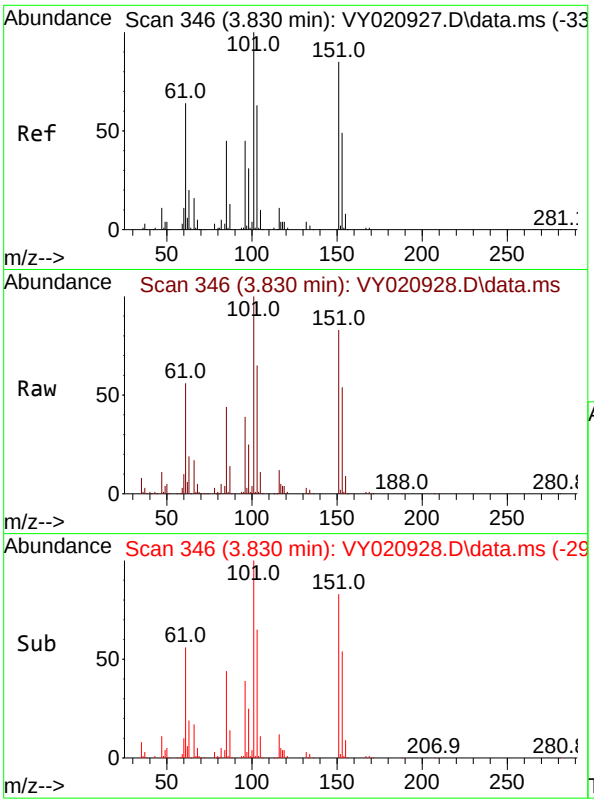




#8
Diethyl Ether
Concen: 87.522 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 74 Resp: 99004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.1 | 45.1 | 135.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 88.810 ug/l
RT: 3.830 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:101 Resp: 21567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.3 | 35.4 | 53.2 |
| 151 | 83.3 | 66.3 | 99.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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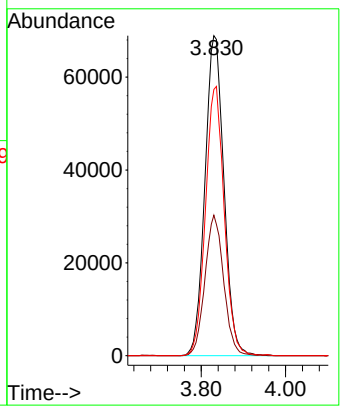
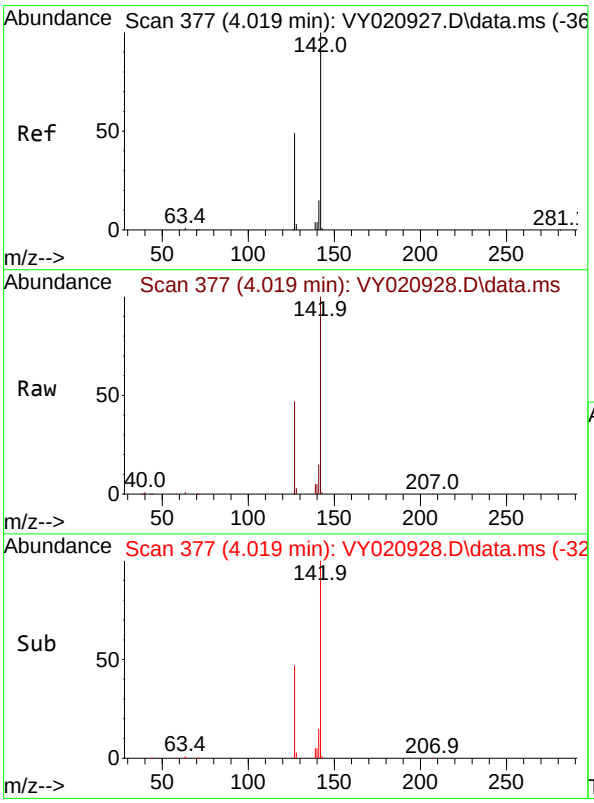
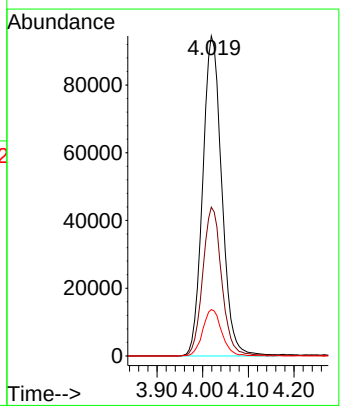


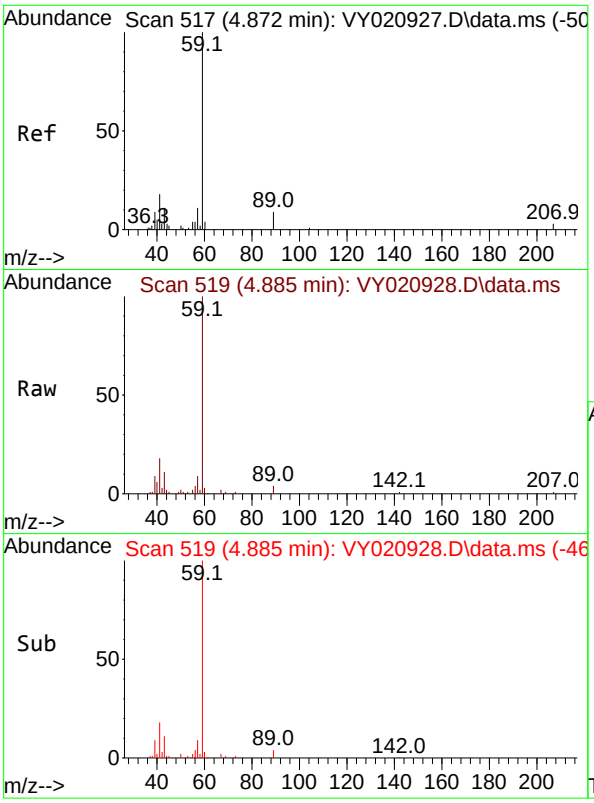




#10
Methyl Iodide
Concen: 94.685 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:142 Resp: 274036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.4 | 37.3 | 55.9 |
| 141 | 14.5 | 11.4 | 17.2 |






#11
Tert butyl alcohol
Concen: 330.716 ug/l
RT: 4.885 min Scan# 5
Delta R.T. 0.013 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 59 Resp: 5751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.5 | 7.7 | 11.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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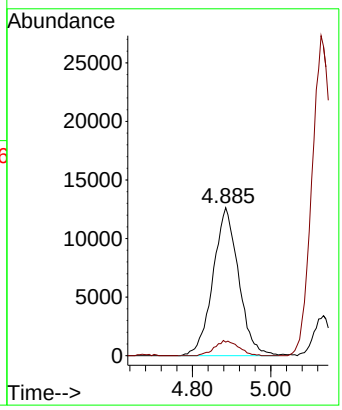


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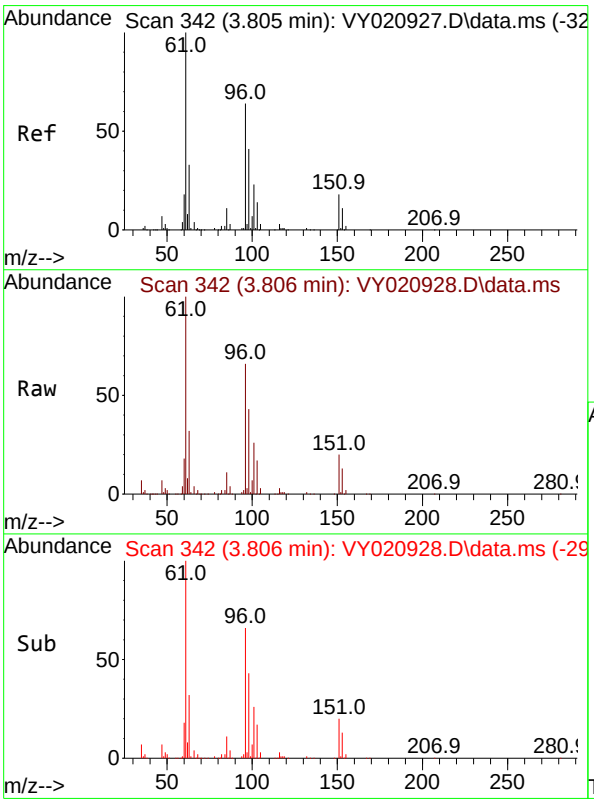
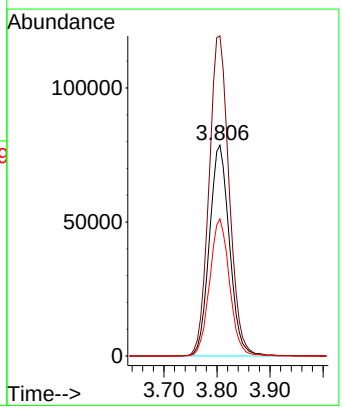
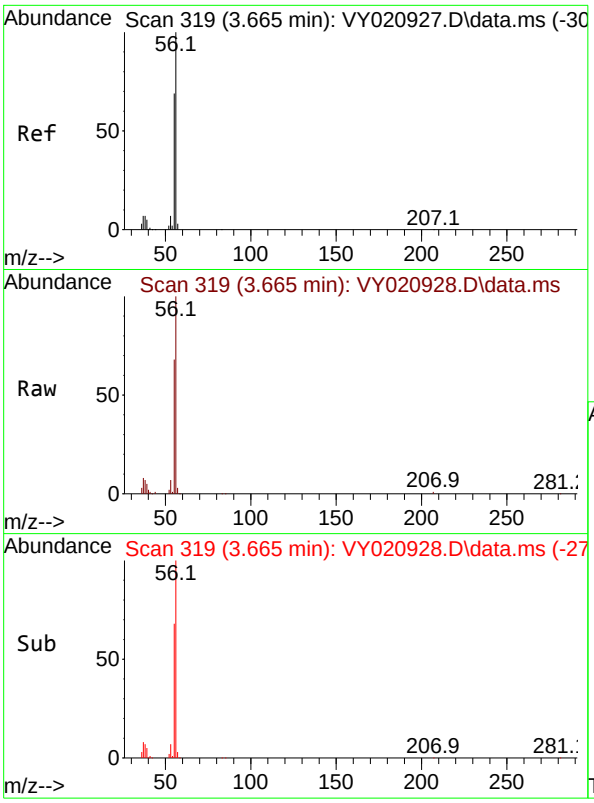



#12
1,1-Dichloroethene
Concen: 90.009 ug/l
RT: 3.806 min Scan# 342
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 96 Resp: 206431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 151.9 | 124.5 | 186.7 |
| 98 | 65.0 | 50.5 | 75.7 |






#13
Acrolein
Concen: 473.717 ug/l
RT: 3.665 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 56 Resp: 11167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.9 | 54.6 | 81.8 |

**Instrument :**
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VSTDICC100

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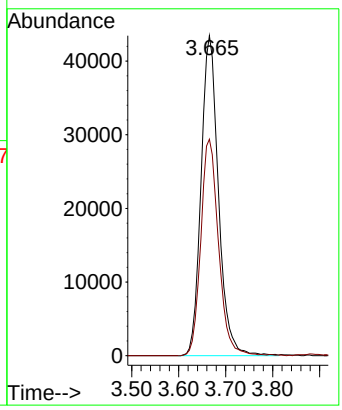
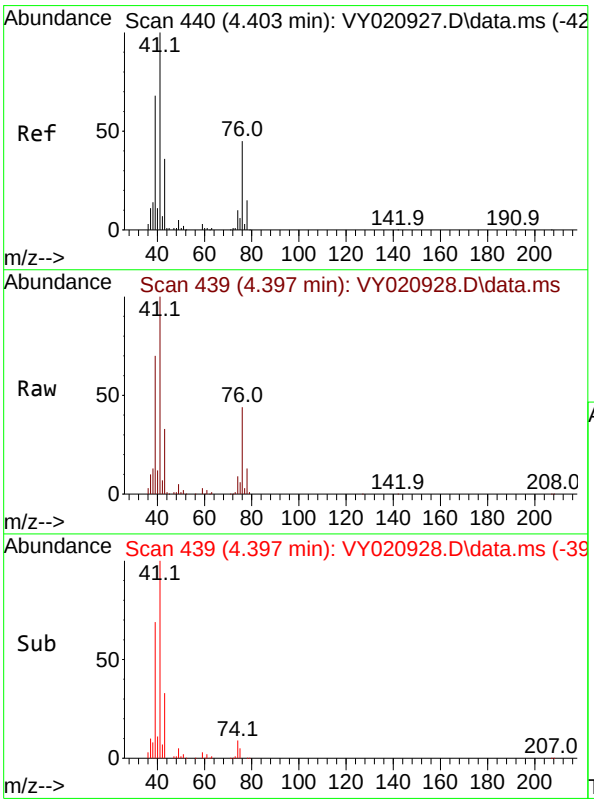
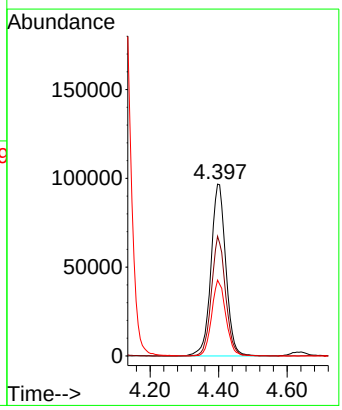


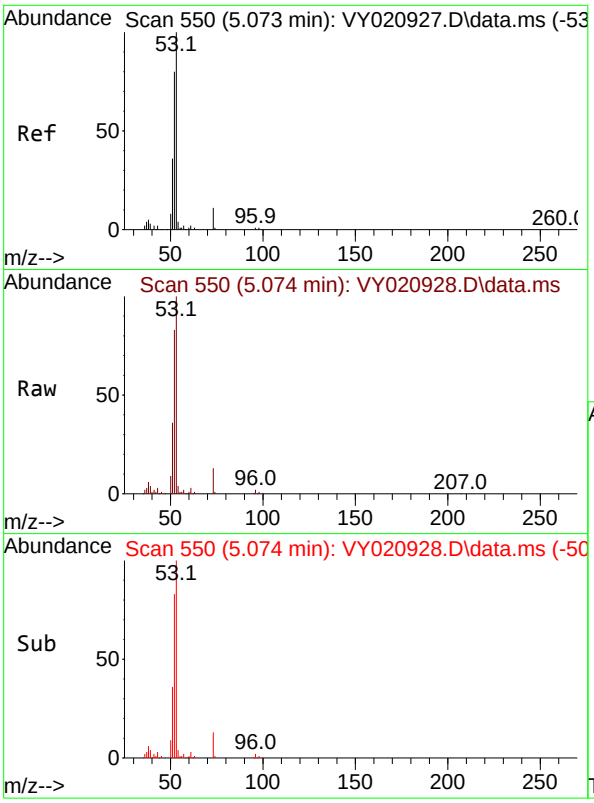




#14
Allyl chloride
Concen: 91.141 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 41 Resp: 291746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.1 | 53.8 | 80.6 |
| 76 | 42.1 | 34.2 | 51.4 |






#15
Acrylonitrile
Concen: 433.320 ug/l
RT: 5.074 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 53 Resp: 19267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.5 | 64.5 | 96.7 |
| 51 | 36.7 | 28.9 | 43.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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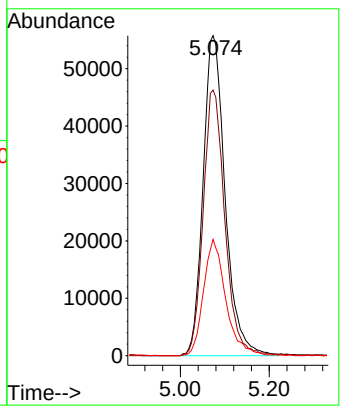
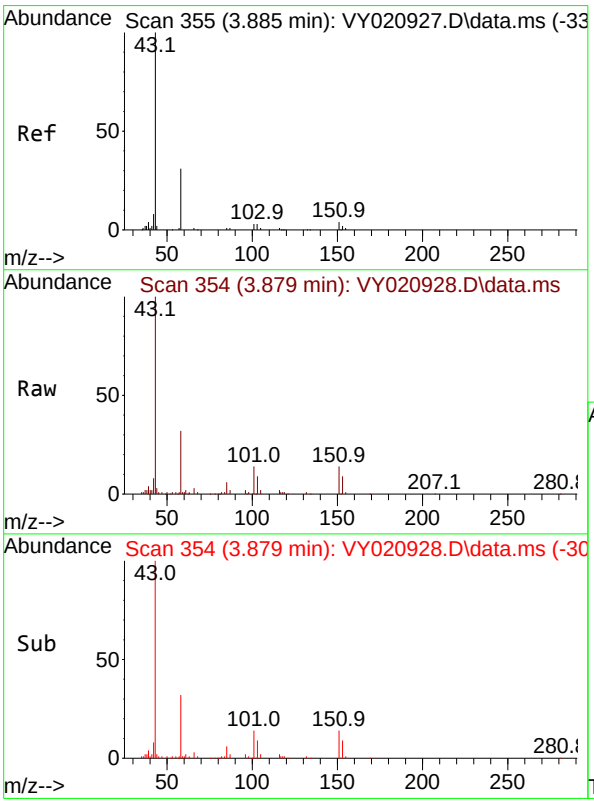
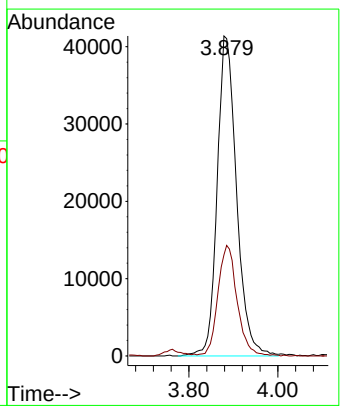


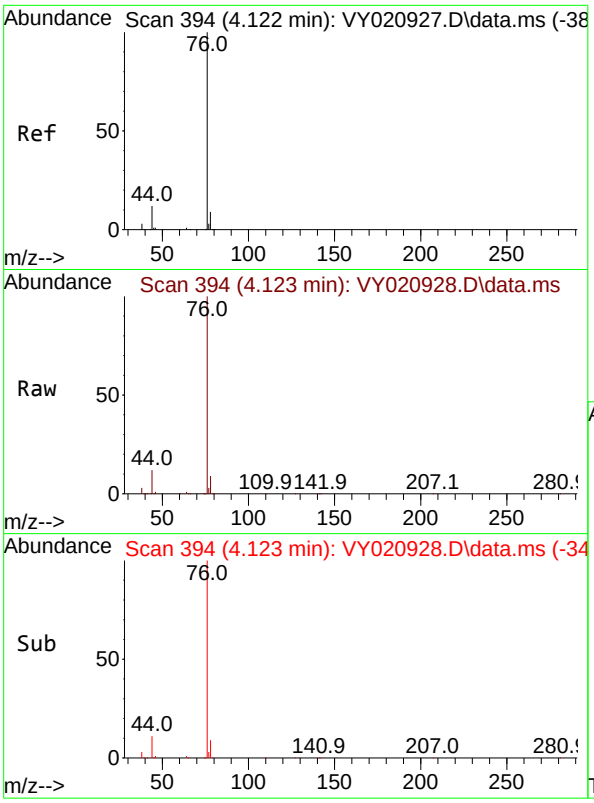




#16
Acetone
Concen: 409.423 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 43 Resp: 124962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.4 | 25.6 | 38.4 |






#17
Carbon Disulfide
Concen: 90.211 ug/l
RT: 4.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 76 Resp: 63894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.4 | 7.2 | 10.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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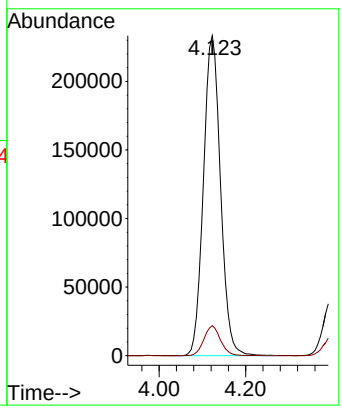


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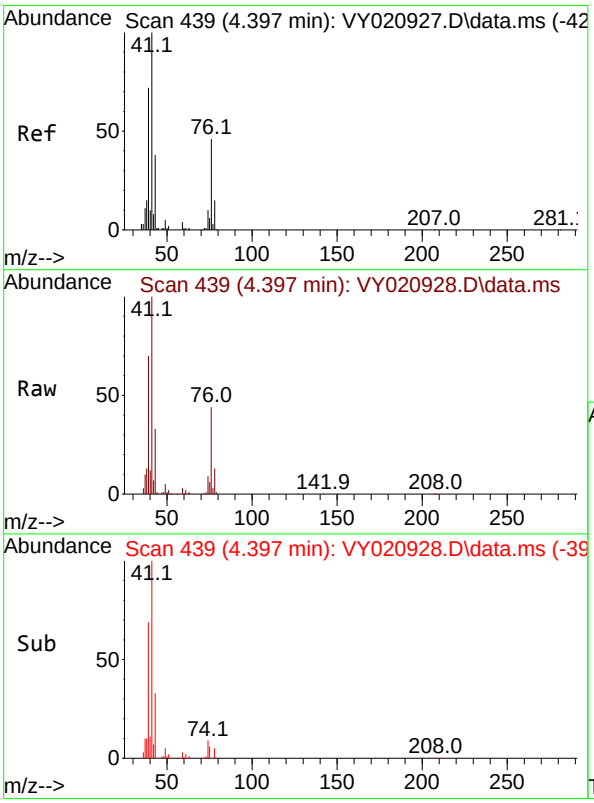
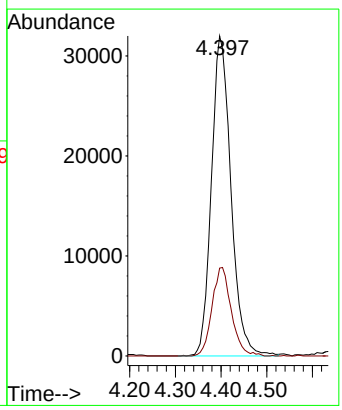
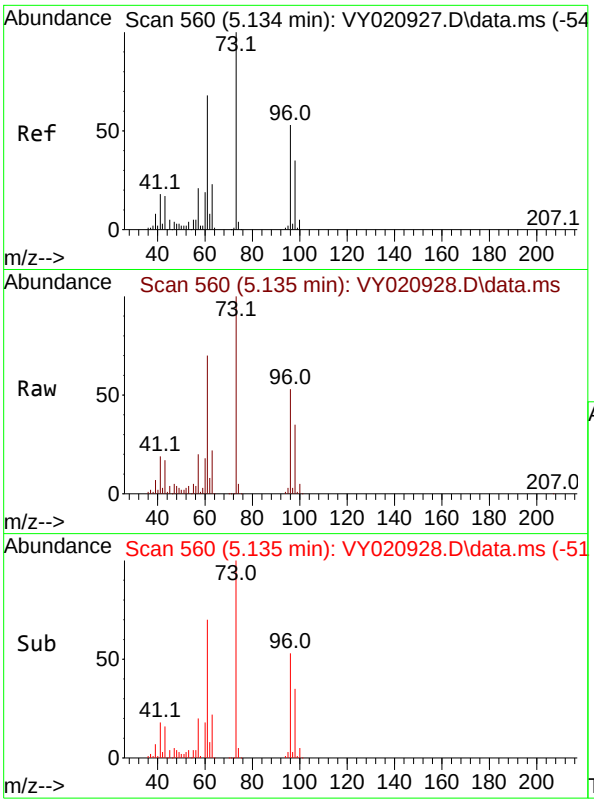



#18
Methyl Acetate
Concen: 86.229 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 43 Resp: 95074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.3 | 21.0 | 31.6 |






#19
Methyl tert-butyl Ether
Concen: 89.651 ug/l
RT: 5.135 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 73 Resp: 47622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.3 | 17.0 | 25.6 |

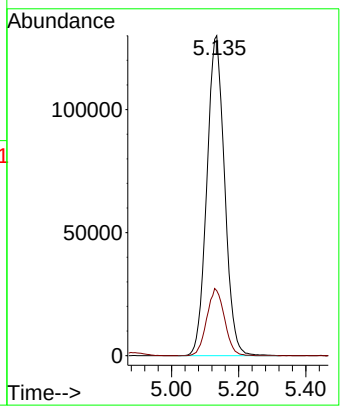
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

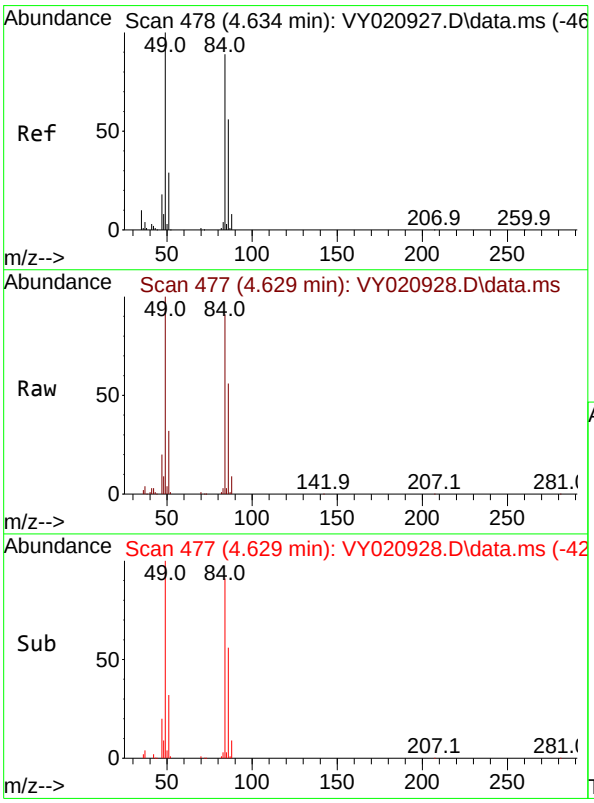
**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

01/27/2025
Supervised By :Mahesh Dadoda

01/27/2025

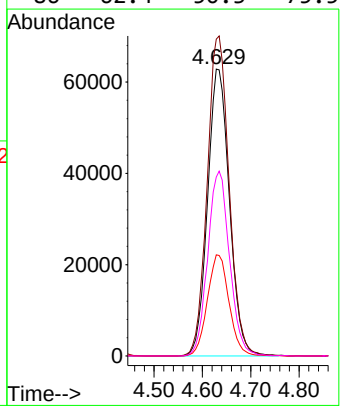


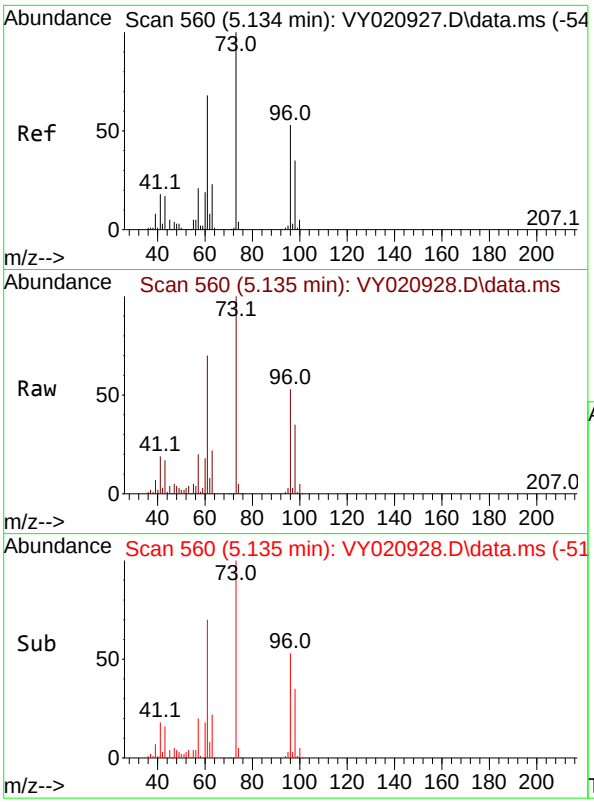




#20
Methylene Chloride
Concen: 86.956 ug/l
RT: 4.629 min Scan# 477
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 84 Resp: 197385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 110.4 | 90.3 | 135.5 |
| 51 | 35.3 | 26.6 | 39.8 |
| 86 | 62.4 | 50.3 | 75.5 |






#21
trans-1,2-Dichloroethene
Concen: 88.675 ug/l
RT: 5.135 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 96 Resp: 21927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 132.2 | 102.4 | 153.6 |
| 98 | 65.9 | 52.0 | 78.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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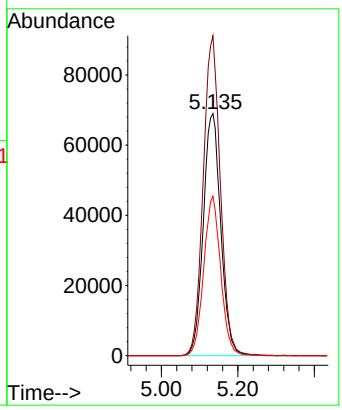
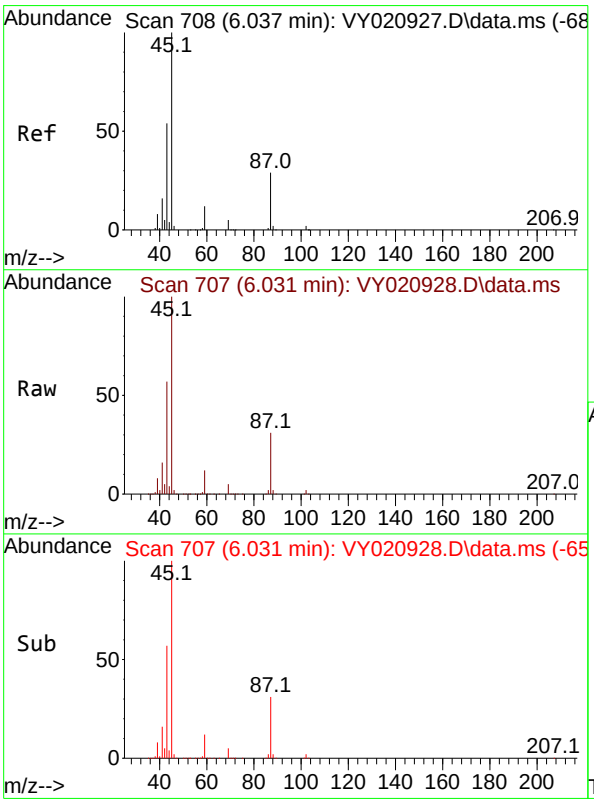
01/27/2025

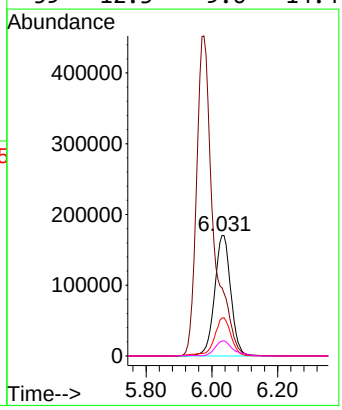


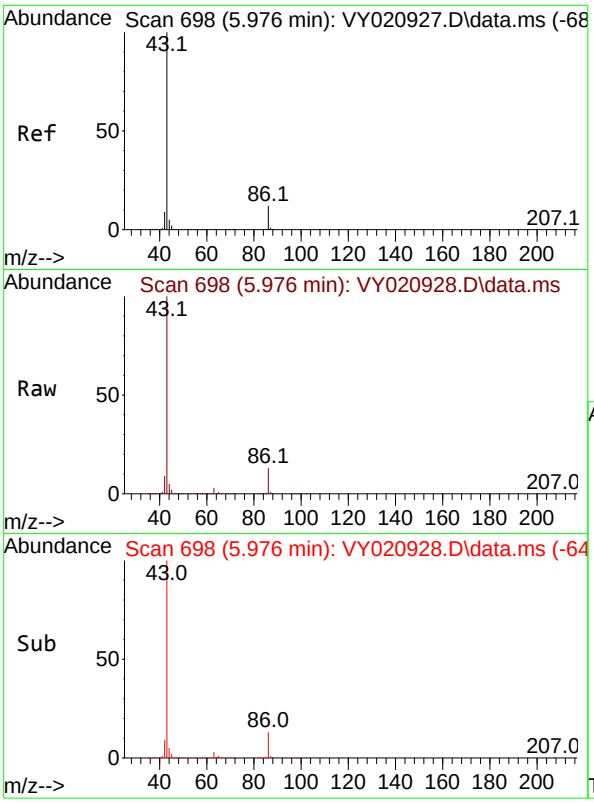




#22
Diisopropyl ether
Concen: 89.904 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 45 Resp: 578872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 56.6 | 43.2 | 64.8 |
| 87 | 31.5 | 23.4 | 35.0 |
| 59 | 12.3 | 9.6 | 14.4 |






#23
Vinyl Acetate
Concen: 450.057 ug/l
RT: 5.976 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 43 Resp: 160378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.6 | 9.8 | 14.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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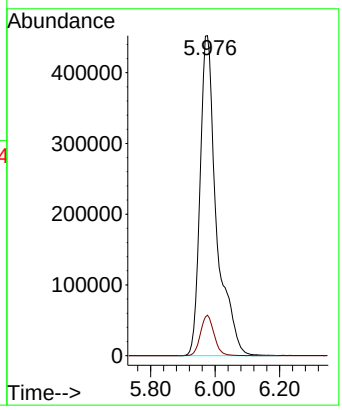
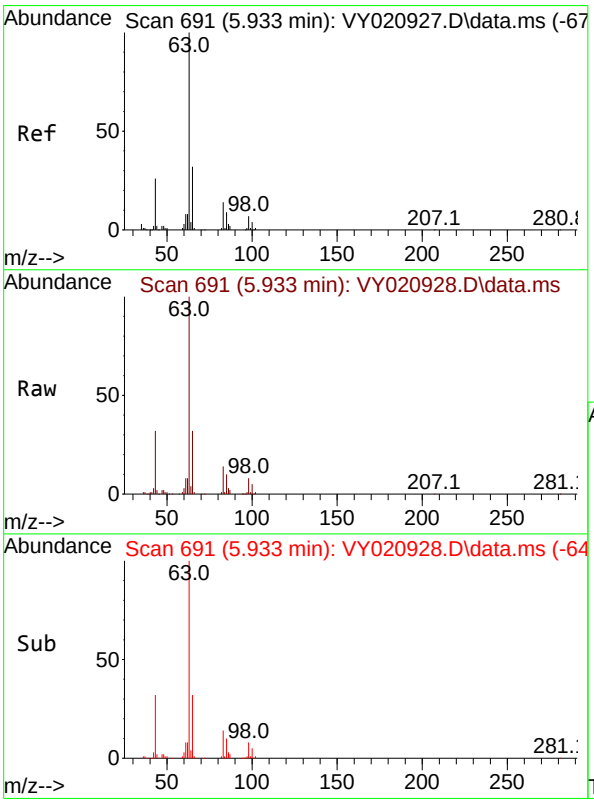
Supervised By :Mahesh Dadoda

01/27/2025

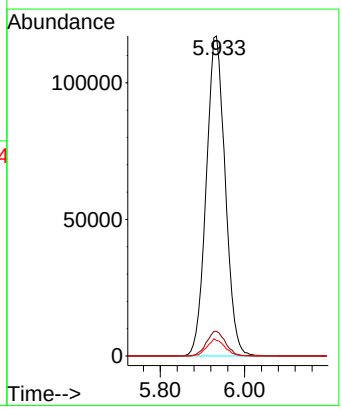


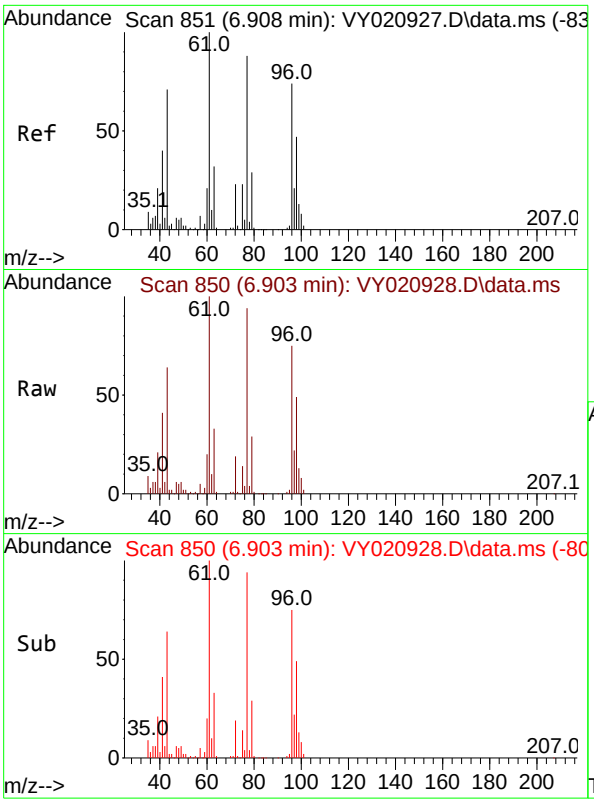




#24
1,1-Dichloroethane
Concen: 89.632 ug/l
RT: 5.933 min Scan# 691
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 63 Resp: 365835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.7 | 3.7 | 11.1 |
| 100 | 4.9 | 2.3 | 6.8 |






#25
2-Butanone
Concen: 424.490 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 43 Resp: 21946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.0 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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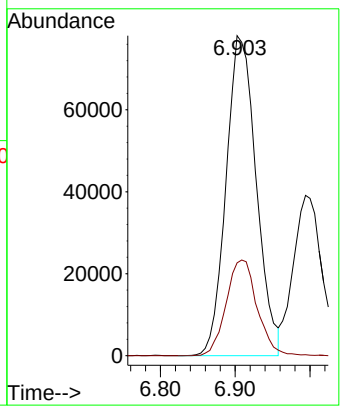
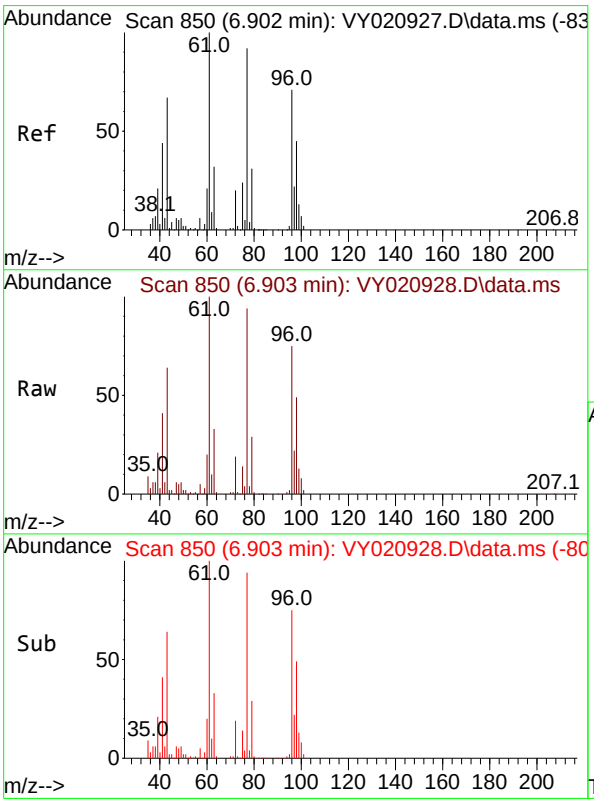
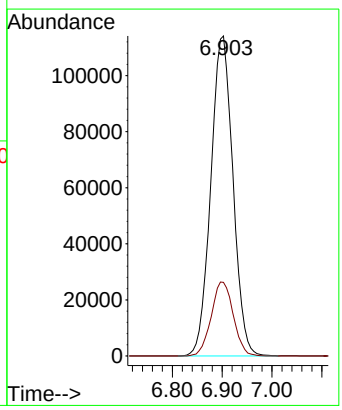


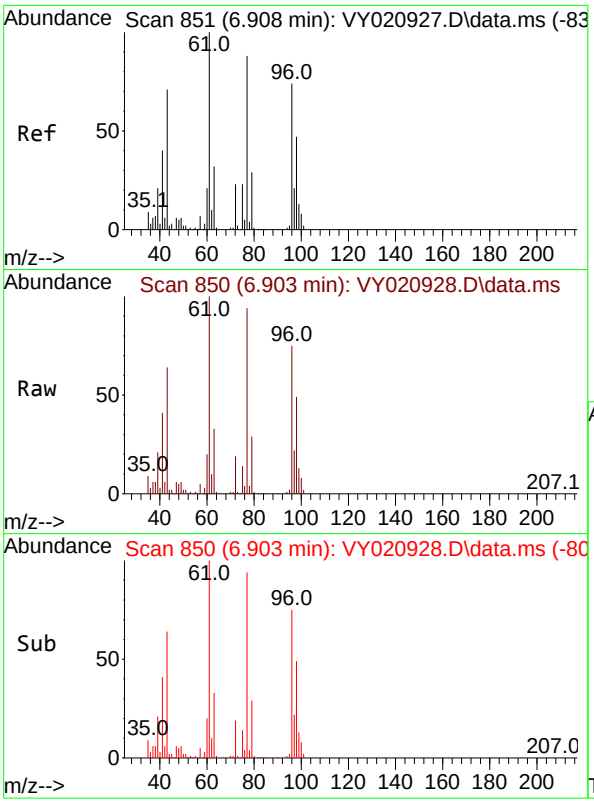




#26
2,2-Dichloropropane
Concen: 87.525 ug/l
RT: 6.903 min Scan# 850
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 77 Resp: 351871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.0 | 11.7 | 35.1 |






#27
cis-1,2-Dichloroethene
Concen: 90.970 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 96 Resp: 25386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.0 | 0.0 | 275.2 |
| 98 | 64.6 | 0.0 | 129.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

01/27/2025
Supervised By :Mahesh Dadoda

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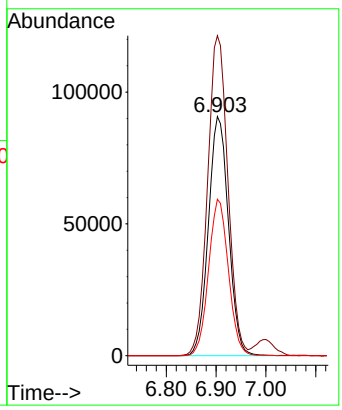
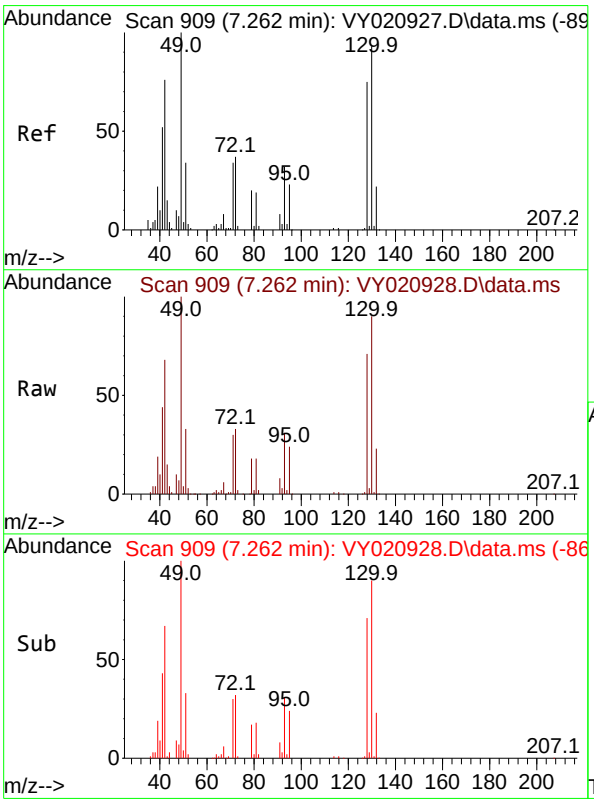
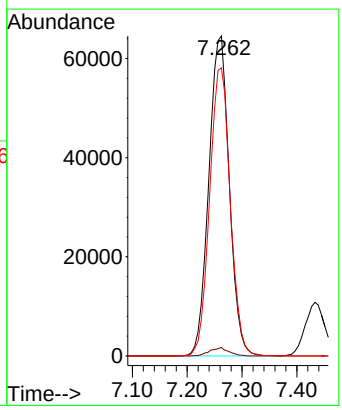


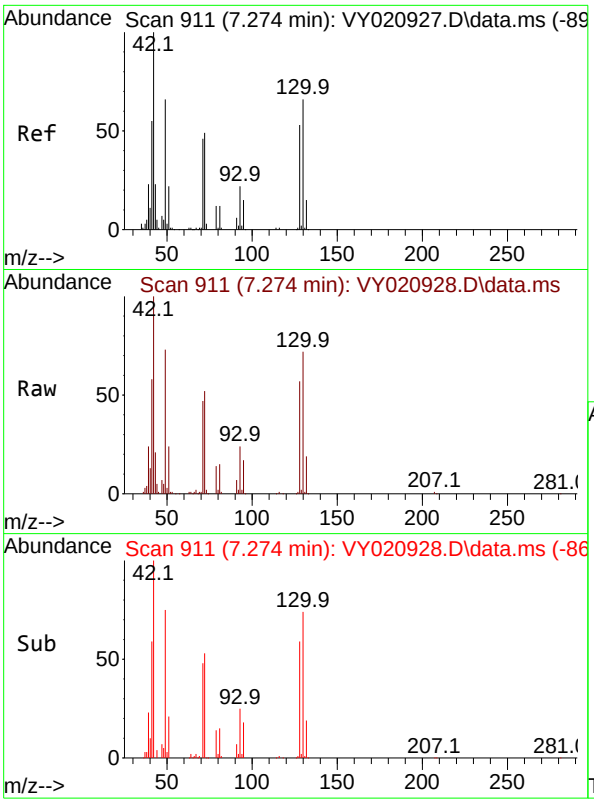




#28
Bromochloromethane
Concen: 101.825 ug/l
RT: 7.262 min Scan# 909
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 49 Resp: 167265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.4 | 0.0 | 4.6 |
| 130 | 90.6 | 72.6 | 109.0 |






#29
Tetrahydrofuran
Concen: 434.525 ug/l
RT: 7.274 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 42 Resp: 14972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 49.9 | 38.8 | 58.2 |
| 71 | 45.6 | 36.4 | 54.6 |

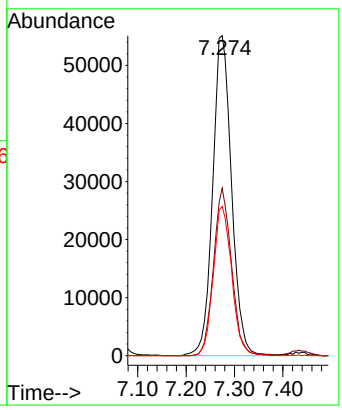
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

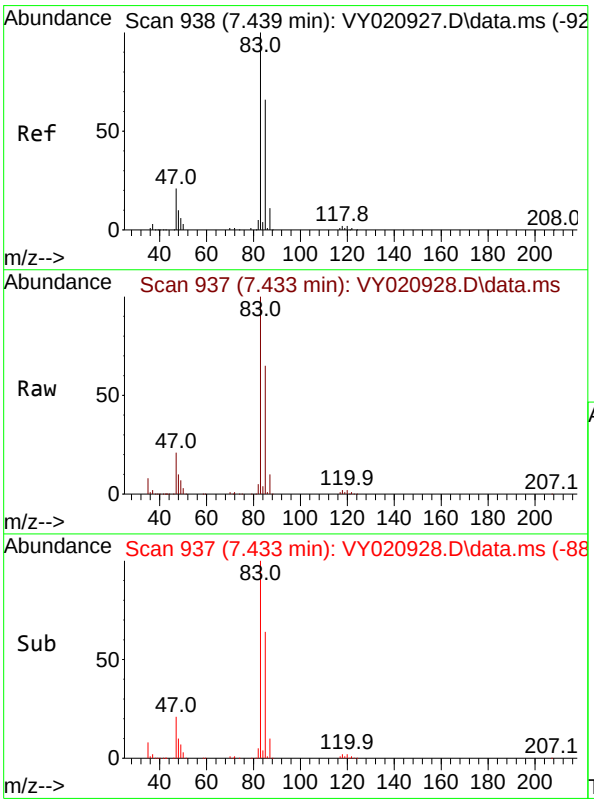
**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

01/27/2025
Supervised By :Mahesh Dadoda

01/27/2025

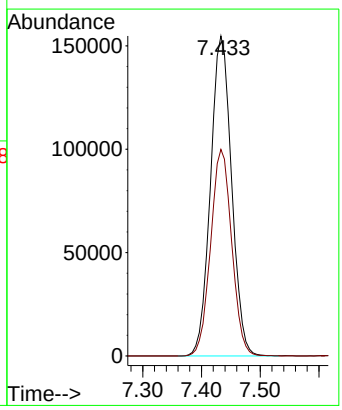


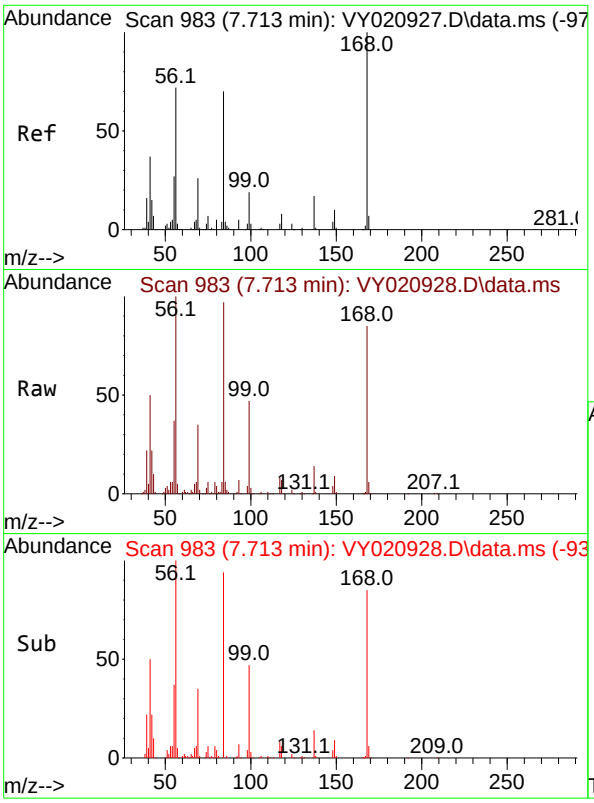




#30
Chloroform
Concen: 89.231 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 83 Resp: 385461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 53.0 | 79.4 |






#31
Cyclohexane
Concen: 85.192 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 56 Resp: 34175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.7 | 28.7 | 43.1 |
| 84 | 95.1 | 77.4 | 116.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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Supervised By :Mahesh Dadoda

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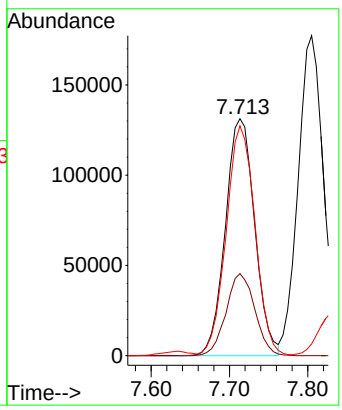
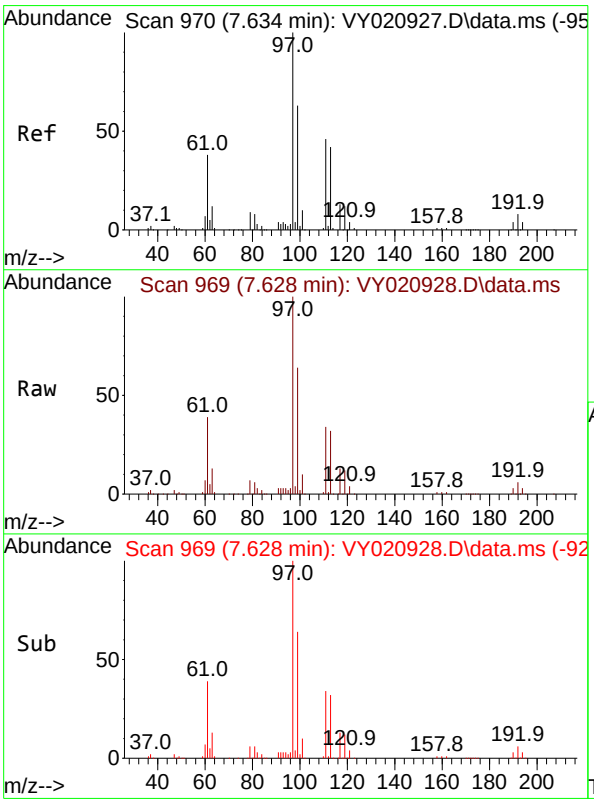
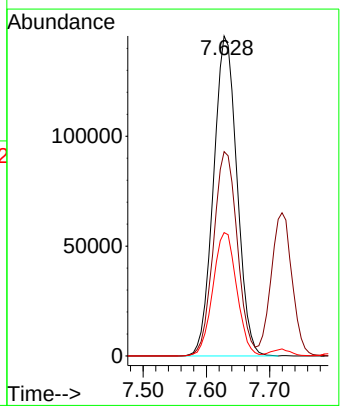


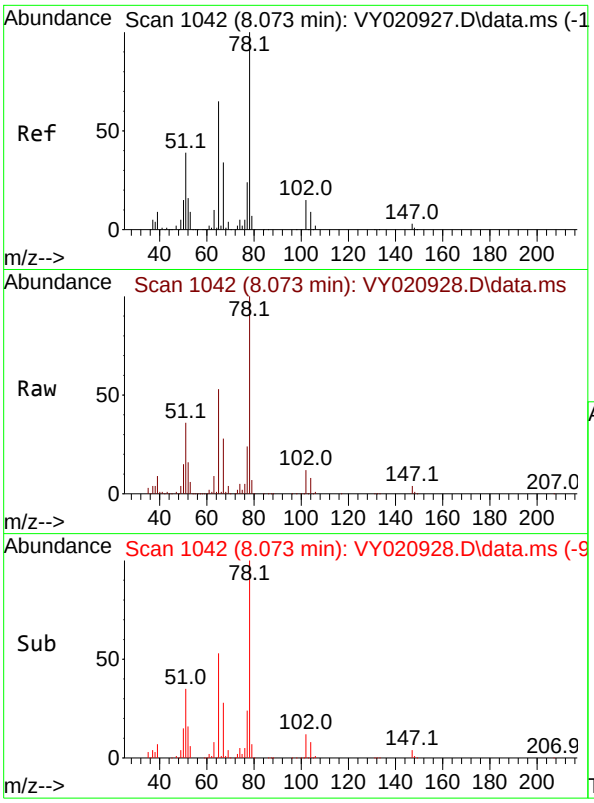




#32
1,1,1-Trichloroethane
Concen: 89.432 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 97 Resp: 374729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.8 | 51.7 | 77.5 |
| 61 | 39.1 | 30.8 | 46.2 |






#33
1,2-Dichloroethane-d4
Concen: 92.604 ug/l
RT: 8.073 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 65 Resp: 20861(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.5 | 0.0 | 105.8 |

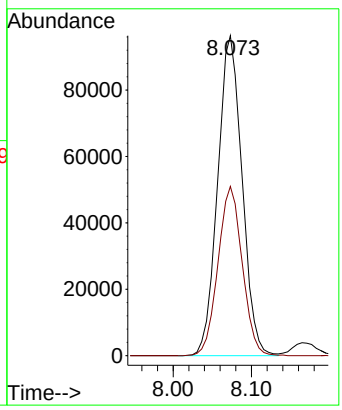
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

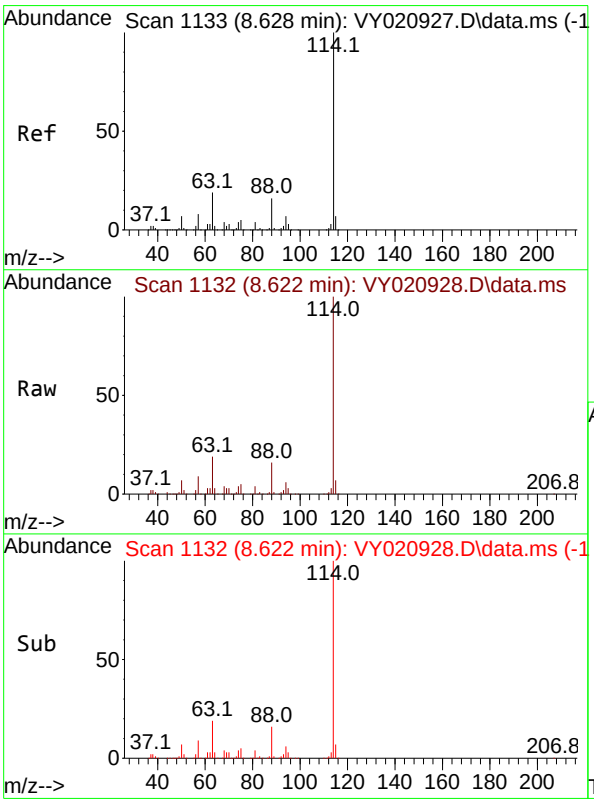
**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

01/27/2025
Supervised By :Mahesh Dadoda

01/27/2025

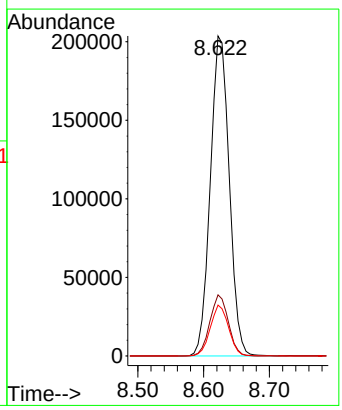


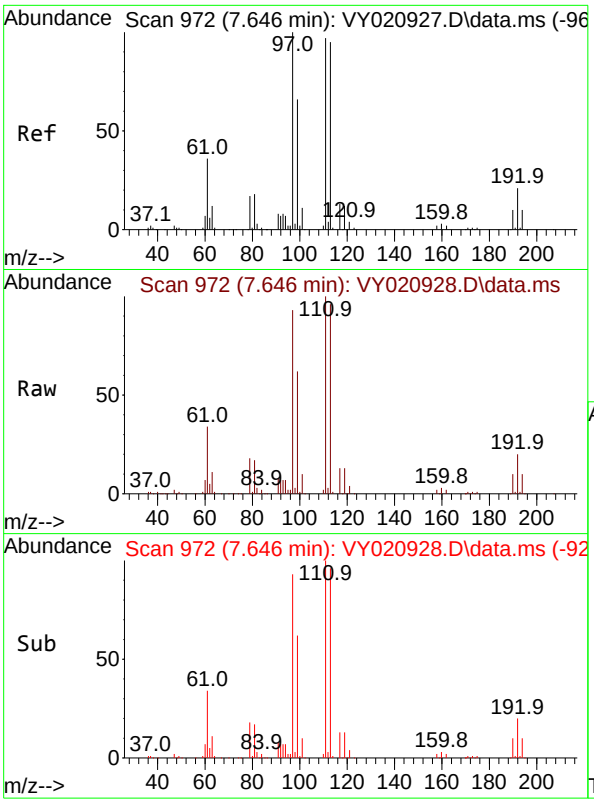




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:114 Resp: 407800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.1 | 0.0 | 38.4 |
| 88 | 15.9 | 0.0 | 31.6 |






#35
Dibromofluoromethane
Concen: 96.082 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

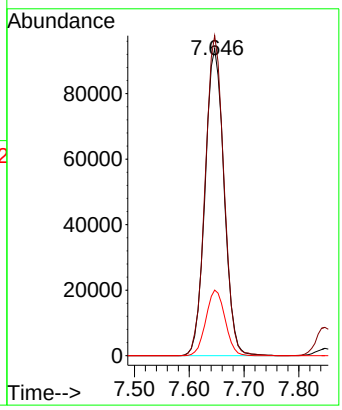
Tgt Ion:113 Resp: 224939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.6 | 82.3 | 123.5 |
| 192 | 21.6 | 17.4 | 26.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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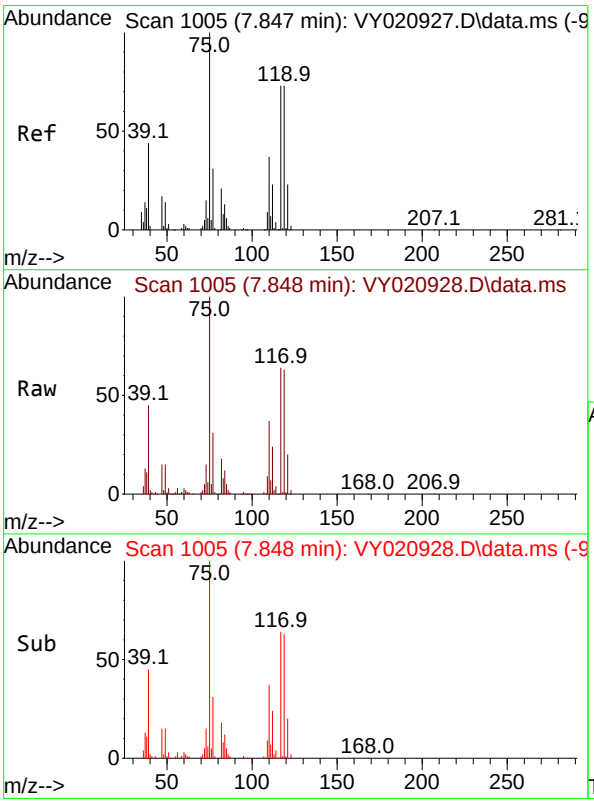
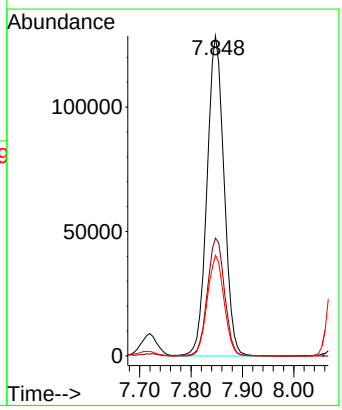
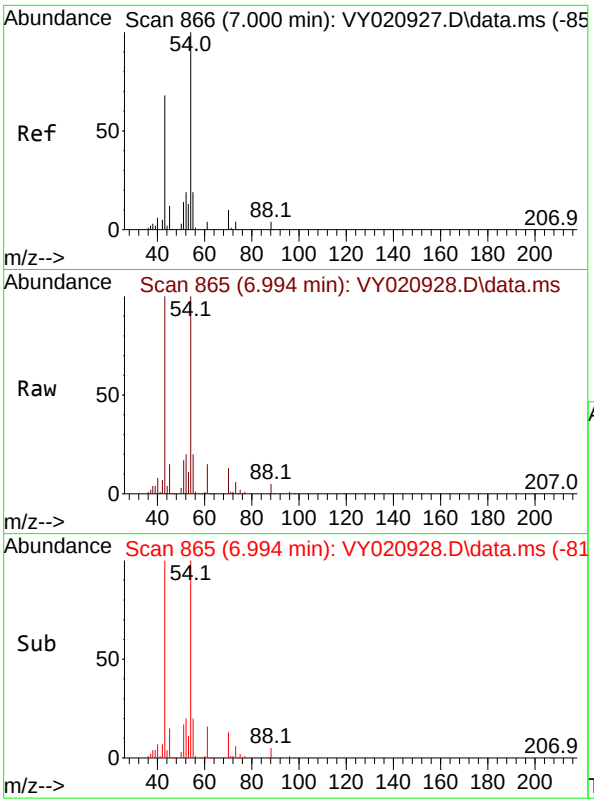



#36
1,1-Dichloropropene
Concen: 90.195 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 75 Resp: 294814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.1 | 18.5 | 55.5 |
| 77 | 31.4 | 25.0 | 37.4 |






#37
Ethyl Acetate
Concen: 85.060 ug/l
RT: 6.994 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 43 Resp: 10787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.7 | 12.1 | 18.1 |
| 70 | 11.8 | 9.5 | 14.3 |

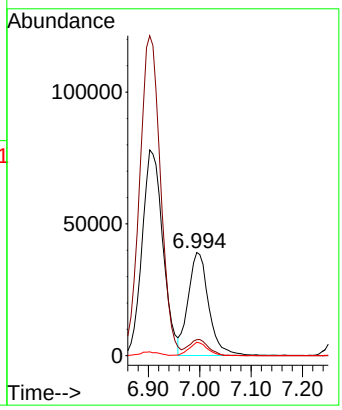
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

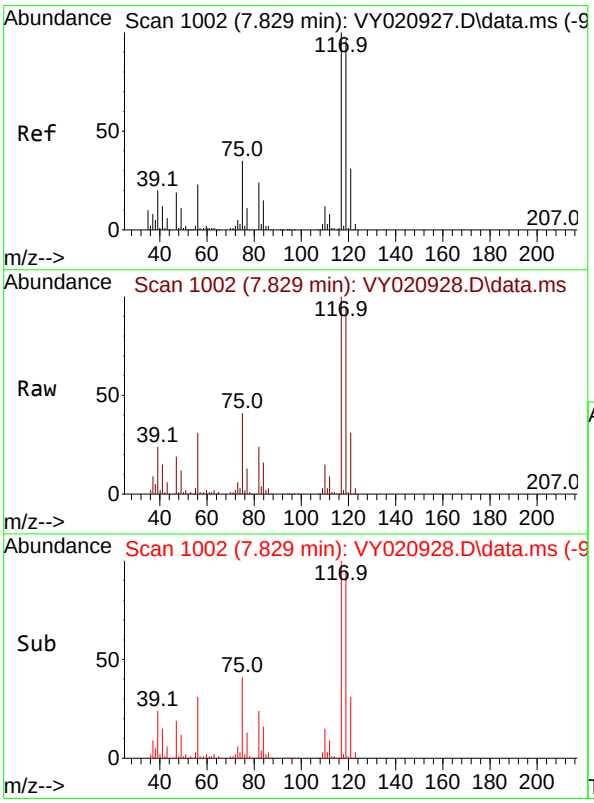
**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

01/27/2025
Supervised By :Mahesh Dadoda

01/27/2025

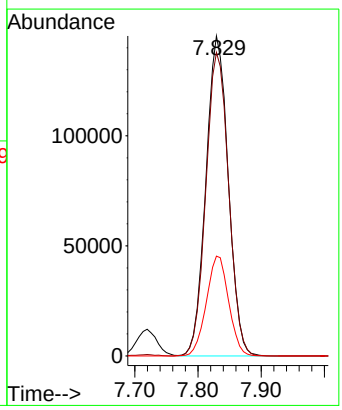


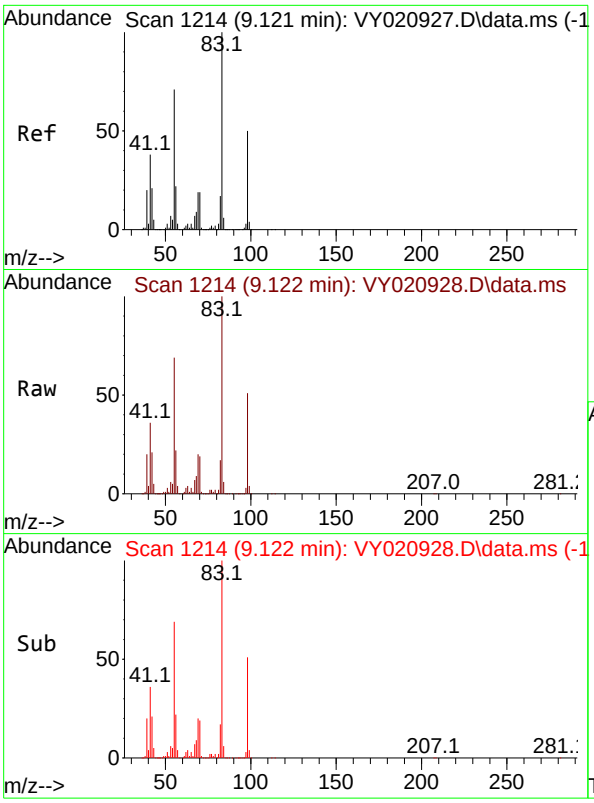




#38
Carbon Tetrachloride
Concen: 90.655 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:117 Resp: 357344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.8 | 76.5 | 114.7 |
| 121 | 31.2 | 25.0 | 37.4 |






#39
Methylcyclohexane
Concen: 92.613 ug/l
RT: 9.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 83 Resp: 40982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 69.2 | 57.0 | 85.4 |
| 98 | 50.9 | 40.1 | 60.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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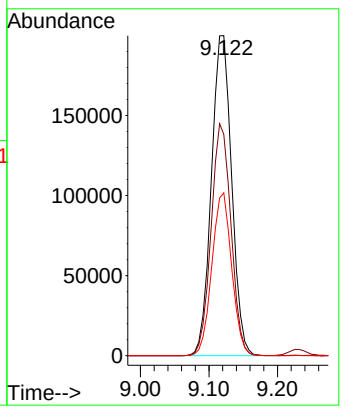
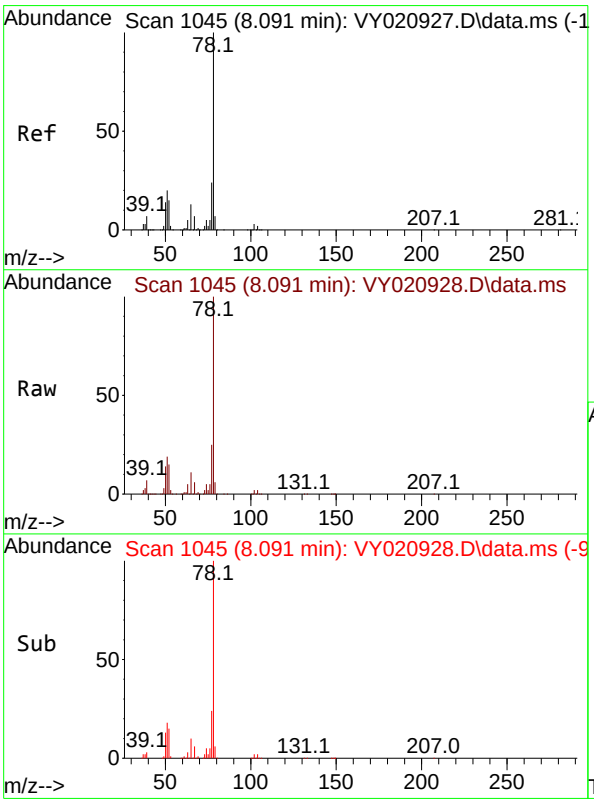
01/27/2025
Supervised By :Mahesh Dadoda

01/27/2025

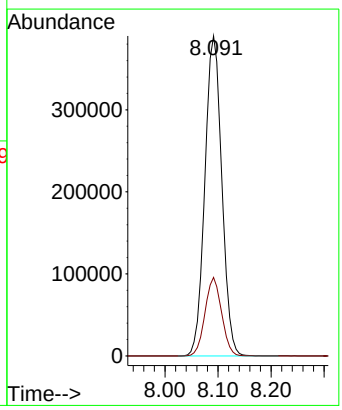


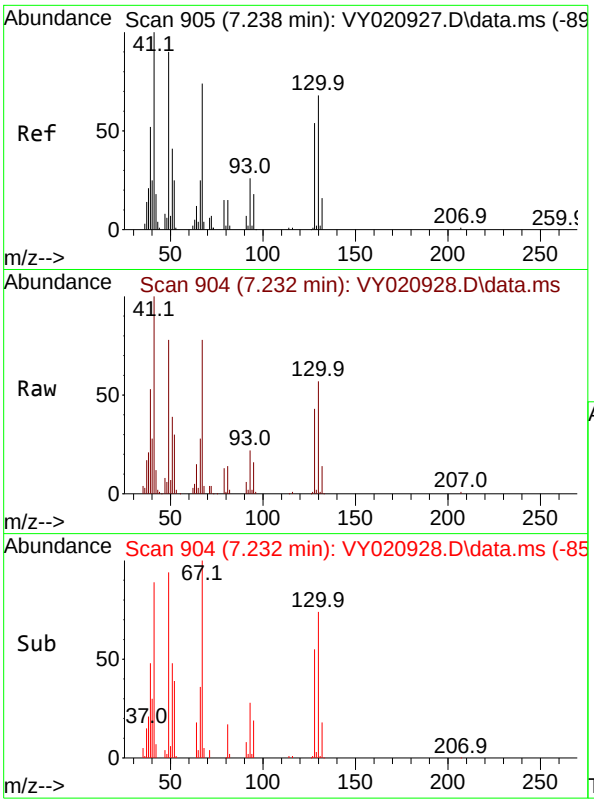




#40
Benzene
Concen: 90.267 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 78 Resp: 865598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.6 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 83.928 ug/l
RT: 7.232 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 41 Resp: 5622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 59.7 | 46.4 | 69.6 |
| 67 | 90.6 | 66.7 | 100.1 |
| 52 | 35.8 | 24.6 | 37.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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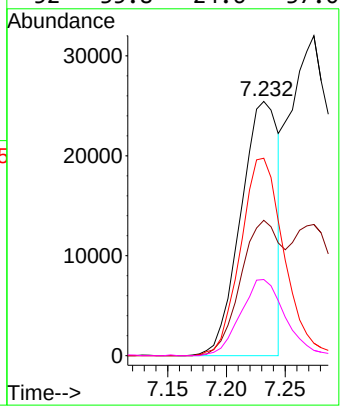
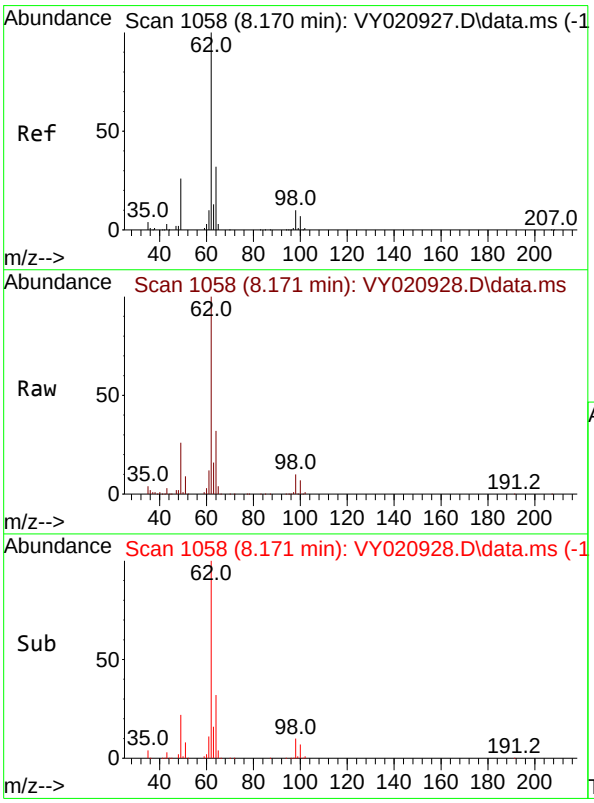
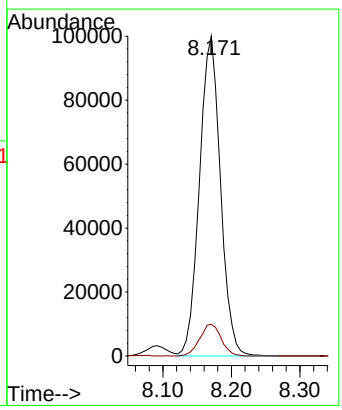


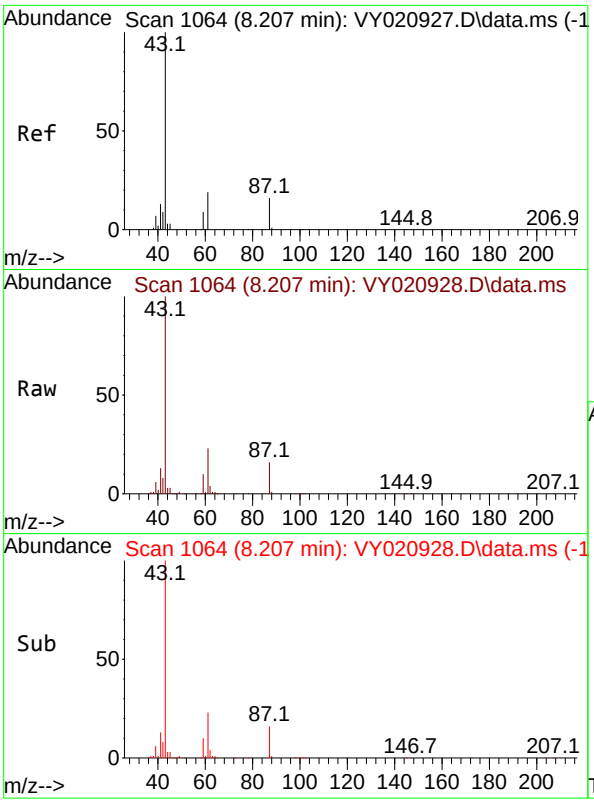




#42
1,2-Dichloroethane
Concen: 89.434 ug/l
RT: 8.171 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 62 Resp: 213394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.1 | 0.0 | 19.8 |






#43
Isopropyl Acetate
Concen: 91.453 ug/l
RT: 8.207 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 43 Resp: 21992(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 32.8 | 26.0 | 39.0 |
| 87 | 15.5 | 12.4 | 18.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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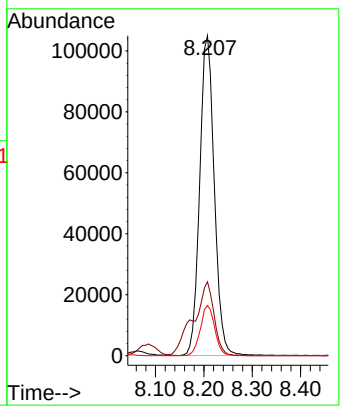
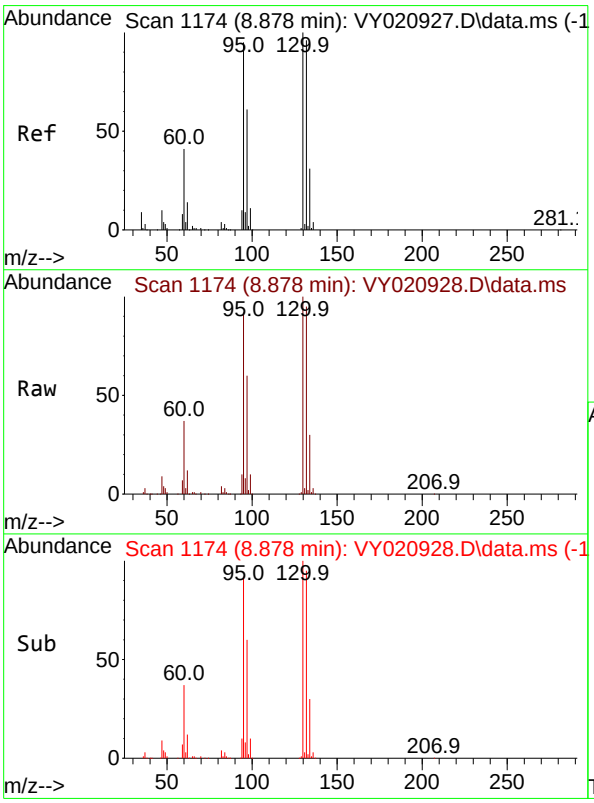
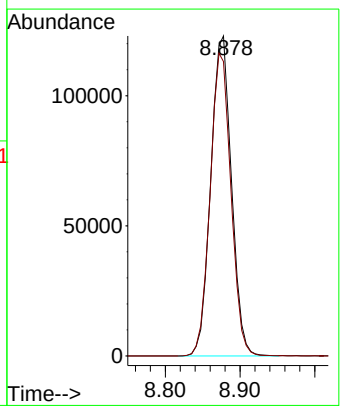


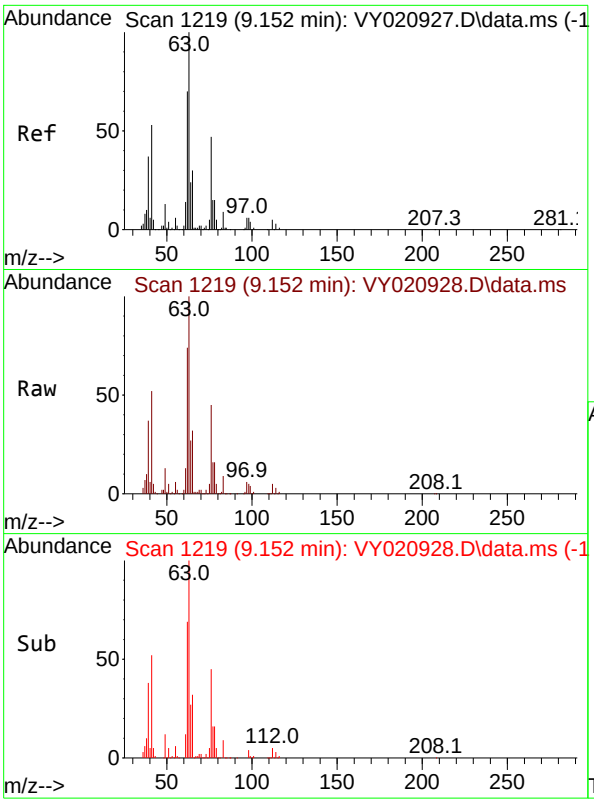




#44
Trichloroethene
Concen: 90.920 ug/l
RT: 8.878 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:130 Resp: 236860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 92.0 | 0.0 | 189.4 |






#45
1,2-Dichloropropane
Concen: 90.754 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 63 Resp: 19210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.5 | 23.9 | 35.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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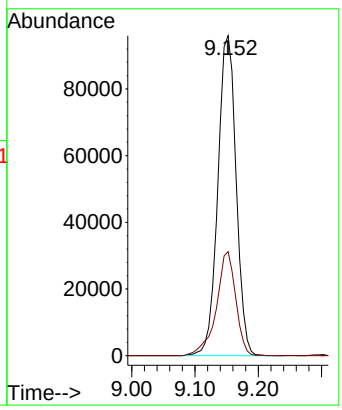
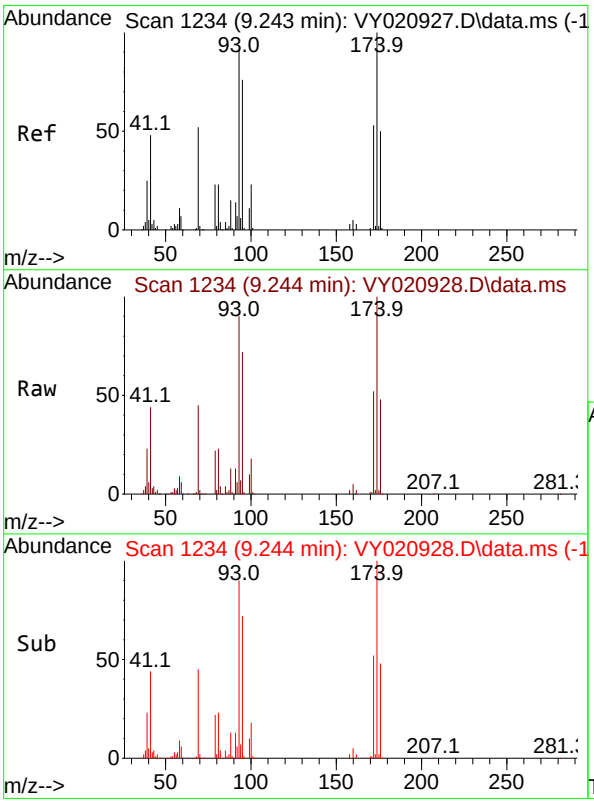
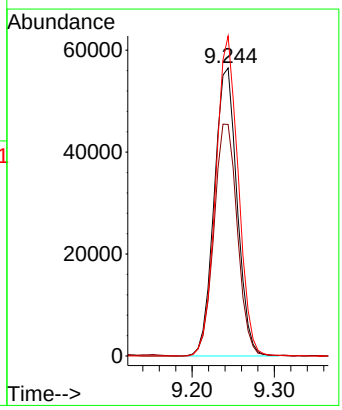


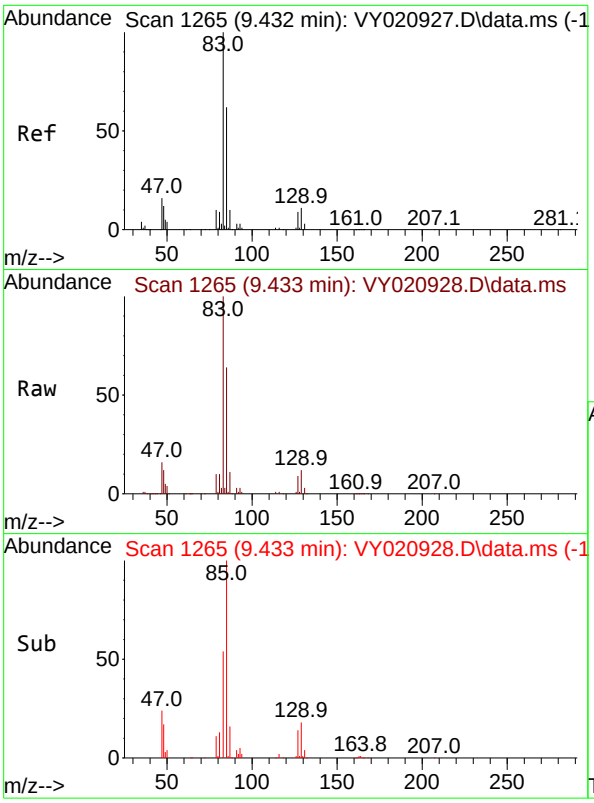




#46
Dibromomethane
Concen: 91.101 ug/l
RT: 9.244 min Scan# 1234
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 93 Resp: 109628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.3 | 66.2 | 99.2 |
| 174 | 109.1 | 87.0 | 130.4 |






#47
Bromodichloromethane
Concen: 91.093 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 83 Resp: 29166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.4 | 49.3 | 73.9 |
| 127 | 9.3 | 7.4 | 11.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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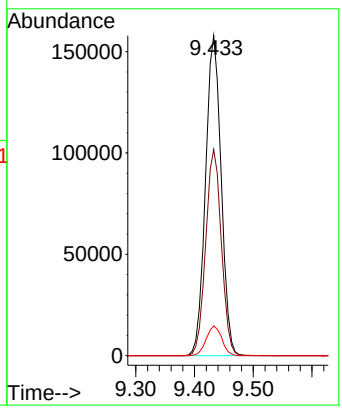
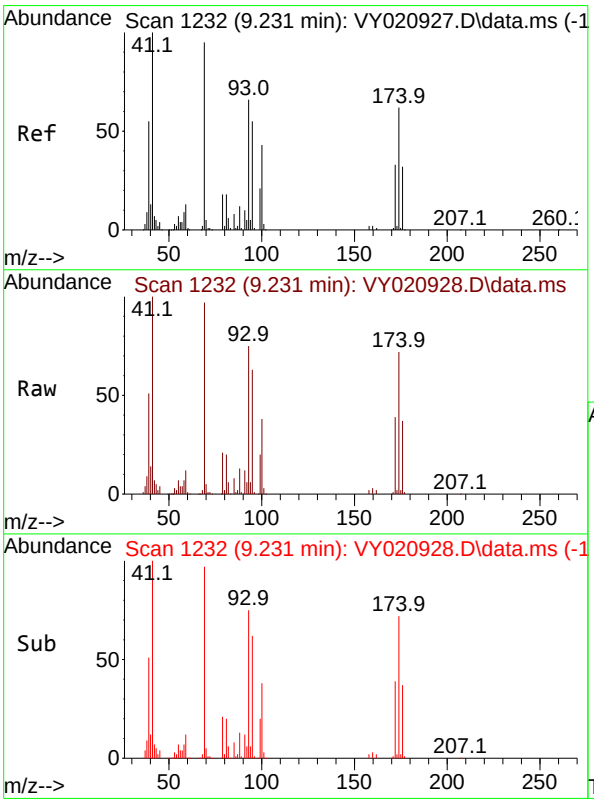
01/27/2025
Supervised By :Mahesh Dadoda

01/27/2025

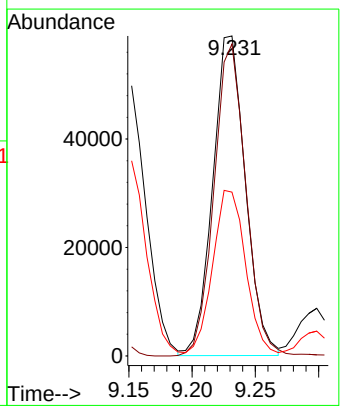


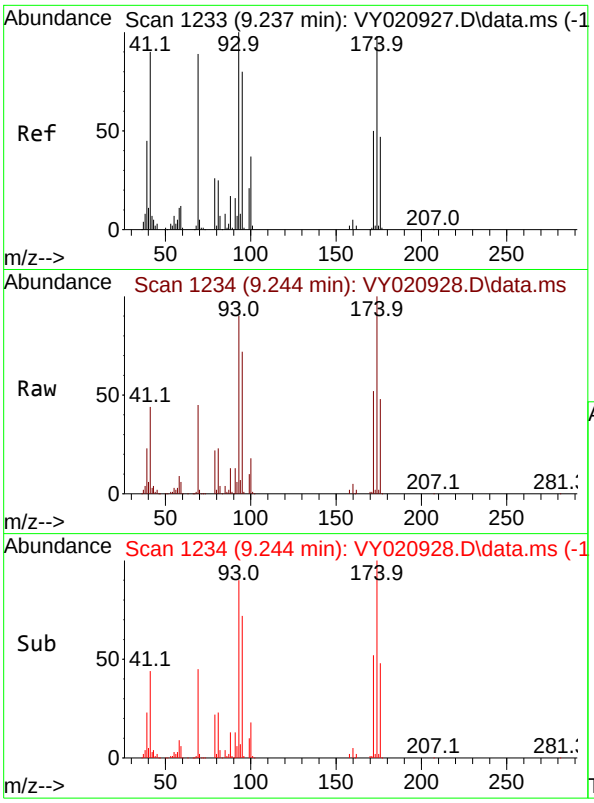




#48
Methyl methacrylate
Concen: 93.423 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 41 Resp: 105979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 95.3 | 77.0 | 115.4 |
| 39 | 50.6 | 41.1 | 61.7 |






#49
1,4-Dioxane
Concen: 1712.802 ug/l
RT: 9.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 88 Resp: 2122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.9 | 23.1 | 34.7 |
| 58 | 71.4 | 49.0 | 73.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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Supervised By :Mahesh Dadoda

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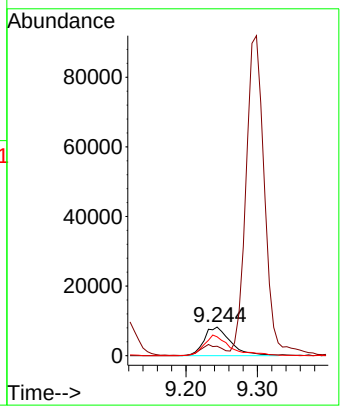
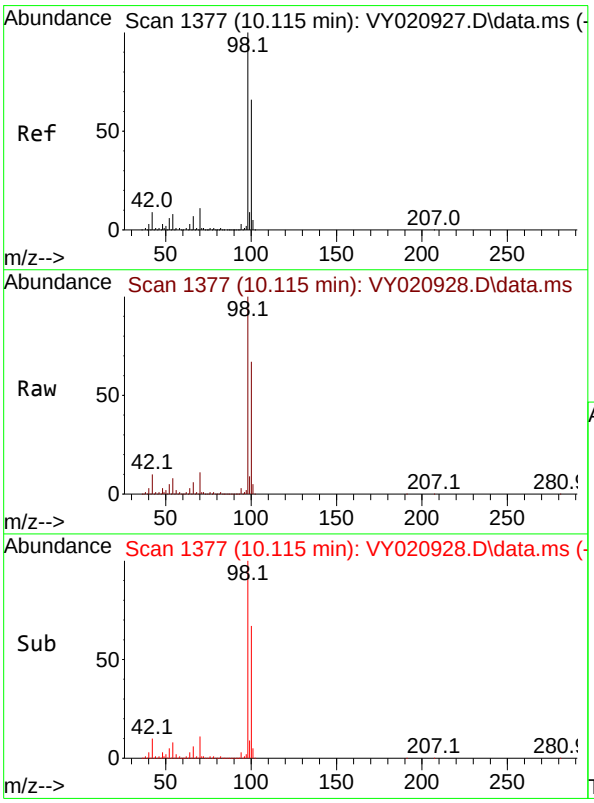
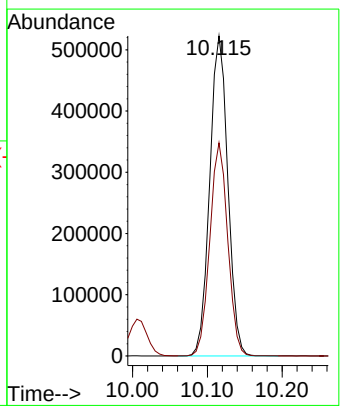


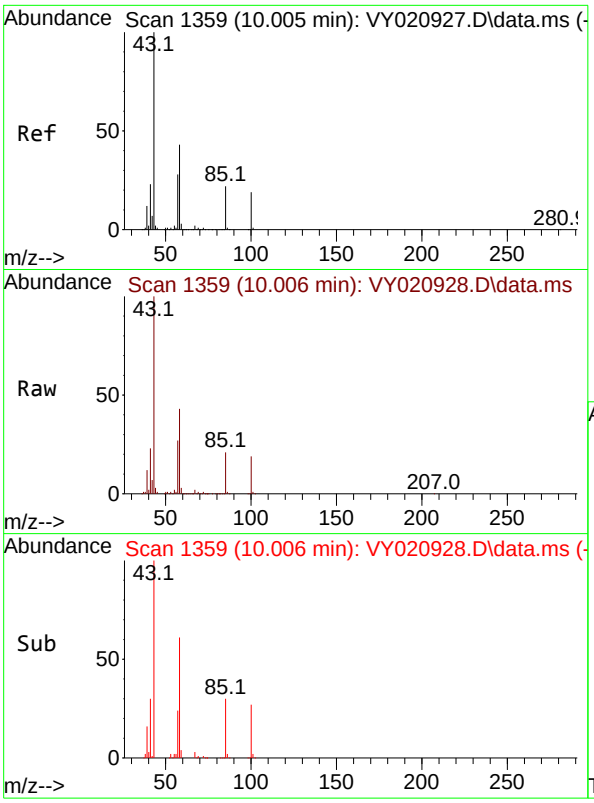




#50
Toluene-d8
Concen: 97.056 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 98 Resp: 881343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.8 | 52.3 | 78.5 |






#51
4-Methyl-2-Pentanone
Concen: 443.751 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

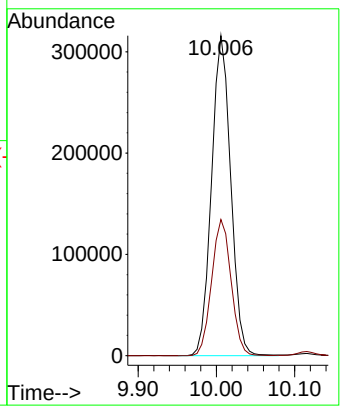
Tgt Ion: 43 Resp: 53807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.1 | 33.7 | 50.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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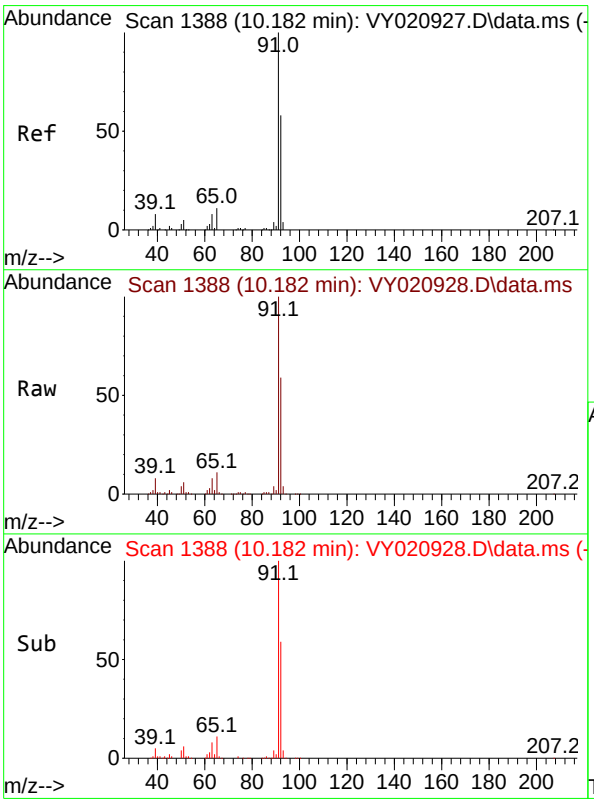
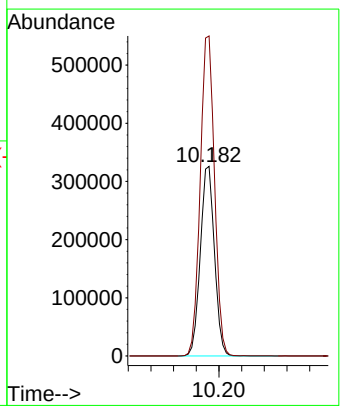
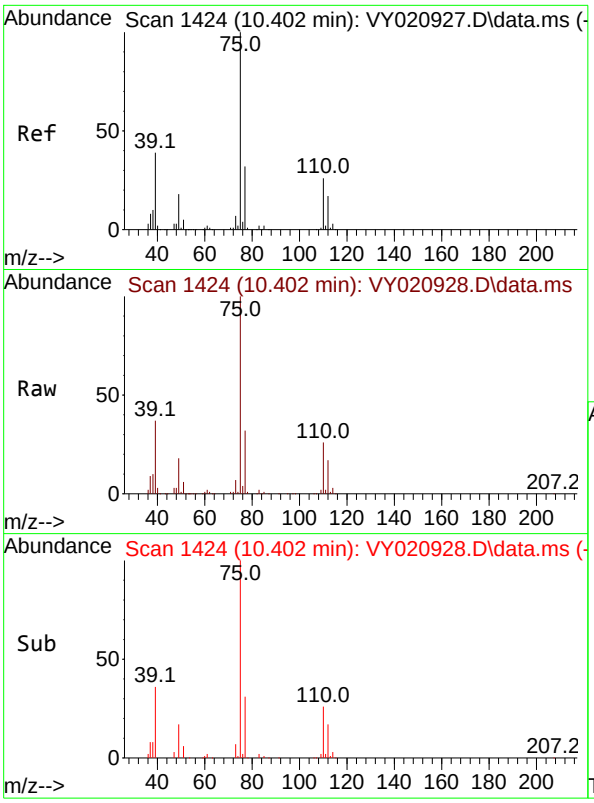



#52
Toluene
Concen: 91.501 ug/l
RT: 10.182 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 92 Resp: 564309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.0 | 137.3 | 205.9 |






#53
t-1,3-Dichloropropene
Concen: 93.326 ug/l
RT: 10.402 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 75 Resp: 27398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.6 | 25.4 | 38.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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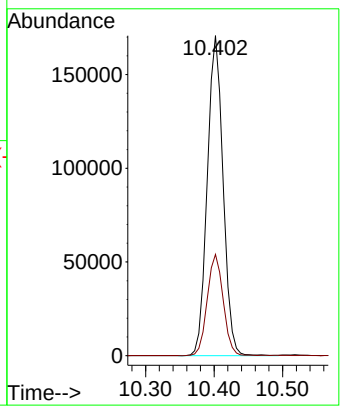
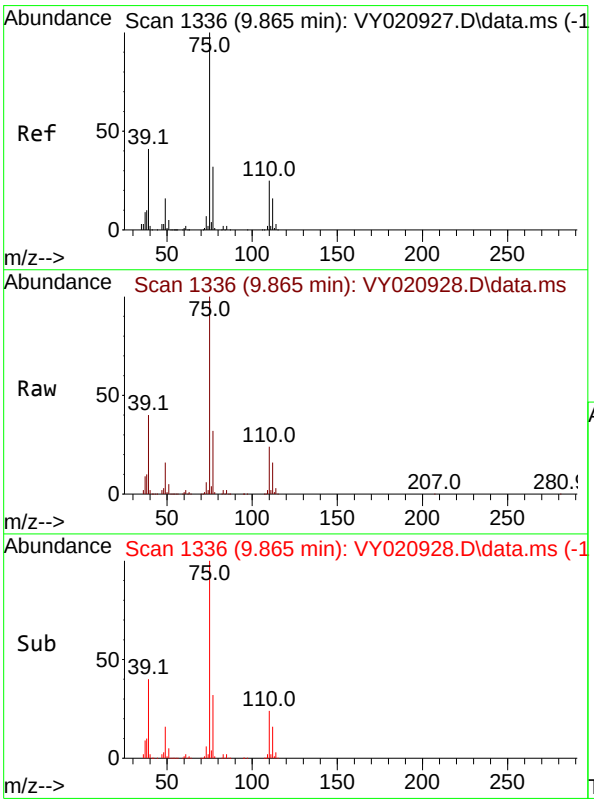
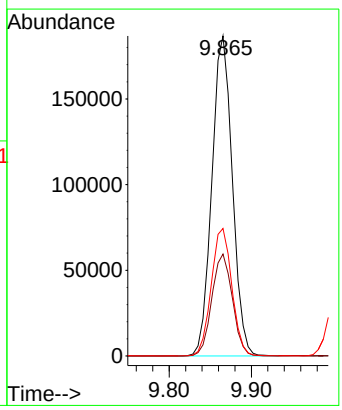


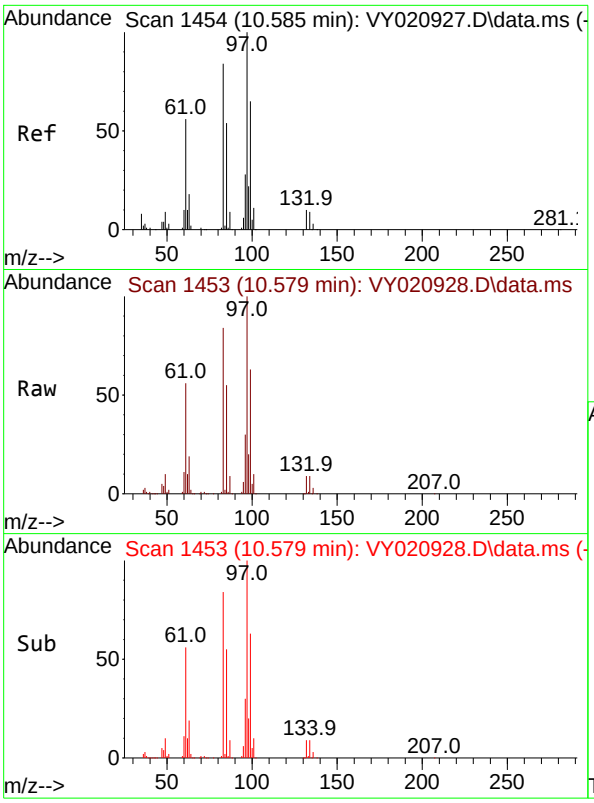




#54
cis-1,3-Dichloropropene
Concen: 92.097 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 75 Resp: 322850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.7 | 38.5 |
| 39 | 39.9 | 32.8 | 49.2 |






#55
1,1,2-Trichloroethane
Concen: 89.583 ug/l
RT: 10.579 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 97 Resp: 14571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.3 | 67.0 | 100.6 |
| 85 | 54.8 | 43.1 | 64.7 |
| 99 | 63.5 | 52.3 | 78.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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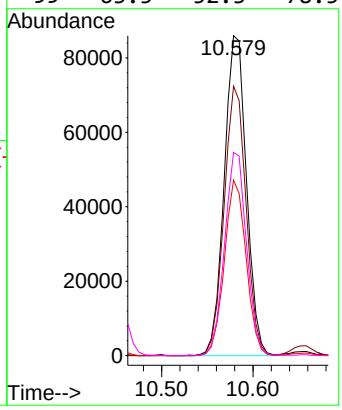
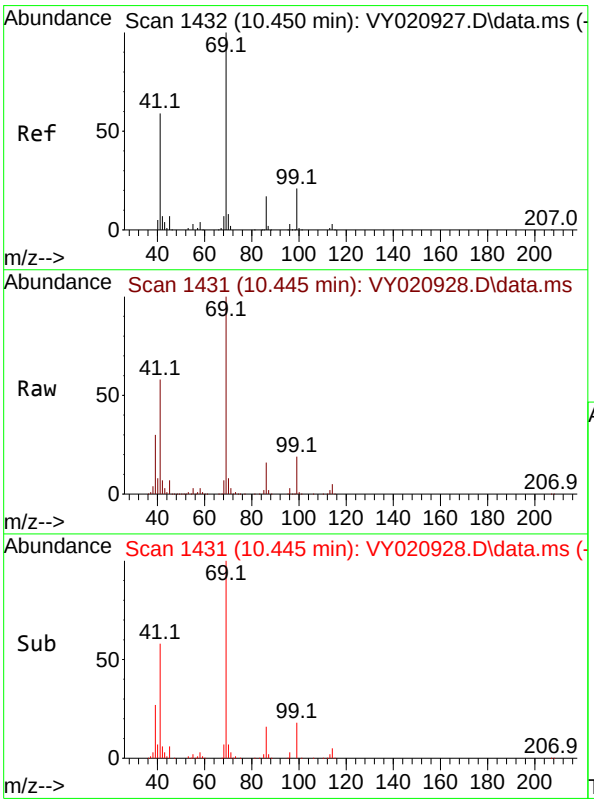
Supervised By :Mahesh Dadoda

01/27/2025

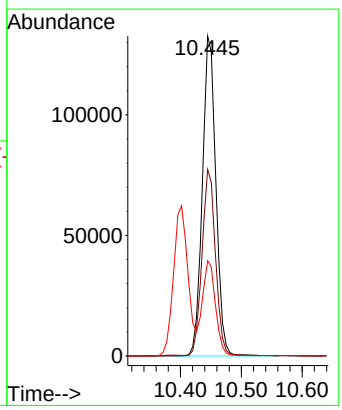


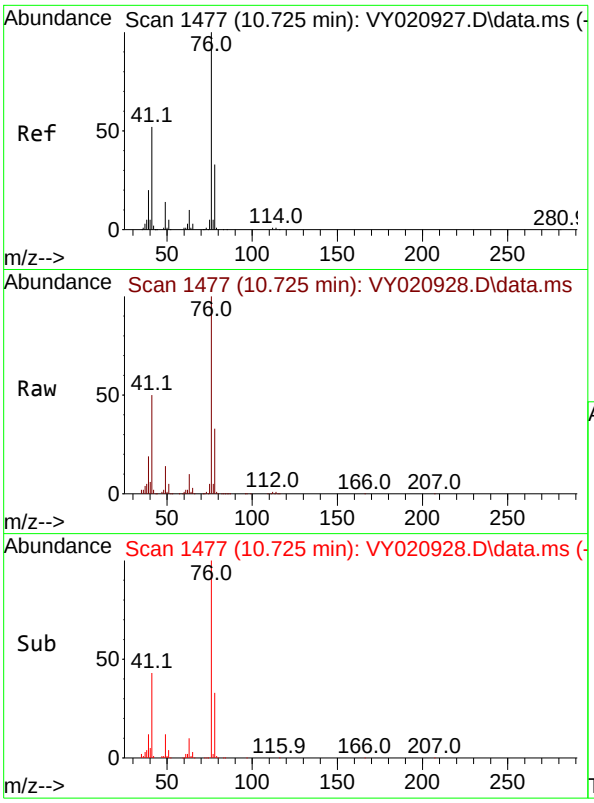




#56
Ethyl methacrylate
Concen: 96.109 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 69 Resp: 204882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 58.1 | 46.6 | 70.0 |
| 39 | 28.6 | 23.9 | 35.9 |






#57
1,3-Dichloropropane
Concen: 89.965 ug/l
RT: 10.725 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 76 Resp: 24860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.3 | 26.2 | 39.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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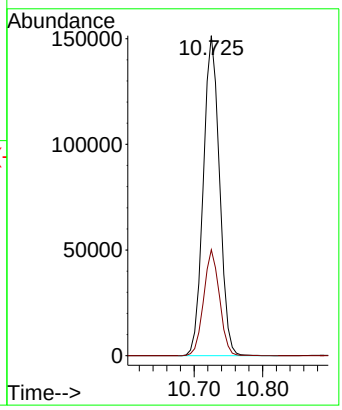
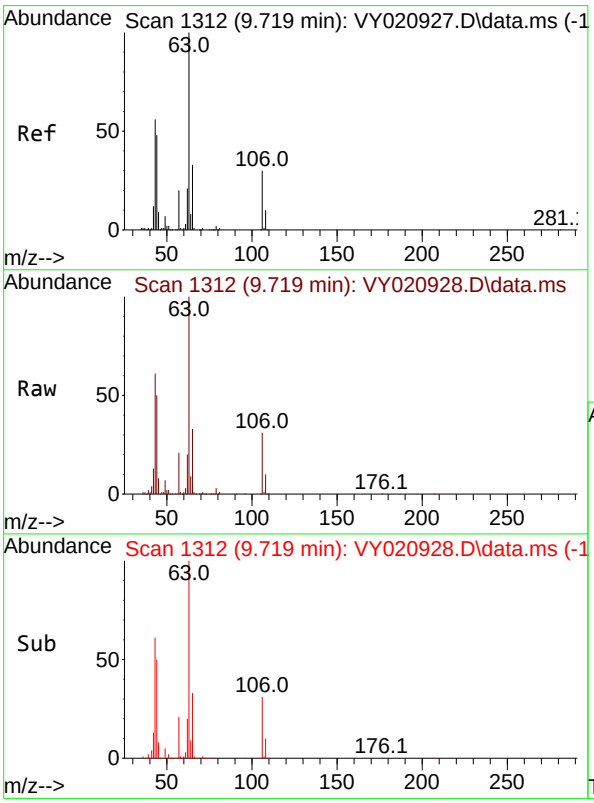
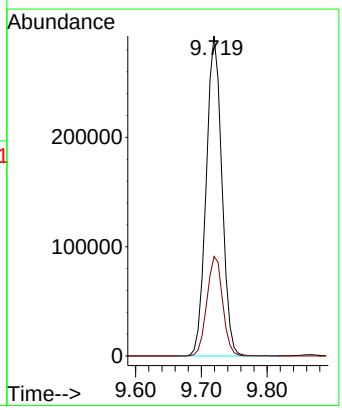


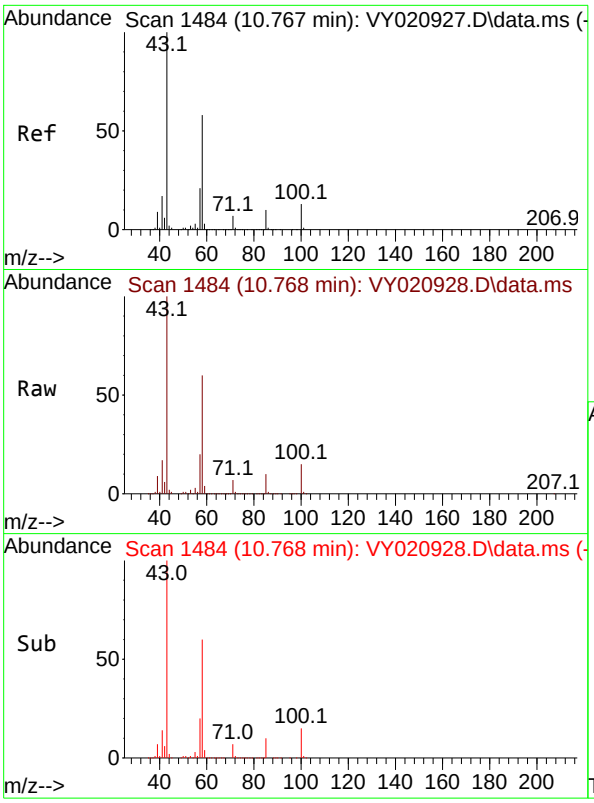




#58
2-Chloroethyl Vinyl ether
Concen: 501.962 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 63 Resp: 485670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 31.2 | 24.7 | 37.1 |






#59
2-Hexanone
Concen: 464.523 ug/l
RT: 10.768 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

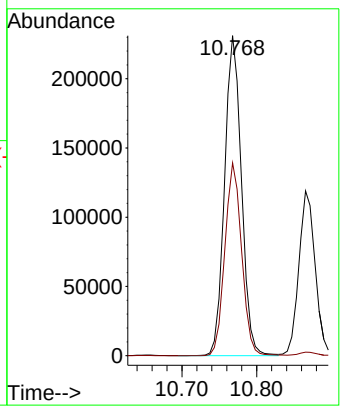
Tgt Ion: 43 Resp: 36219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.9 | 29.9 | 89.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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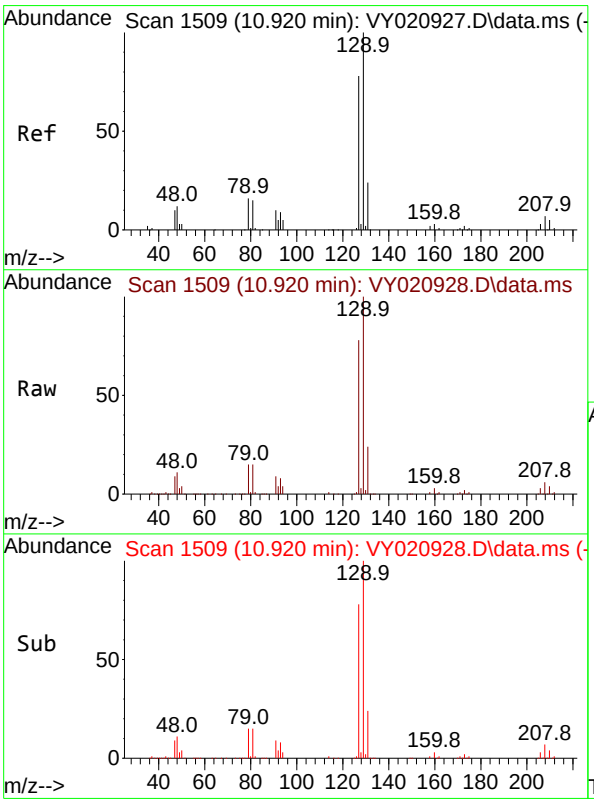
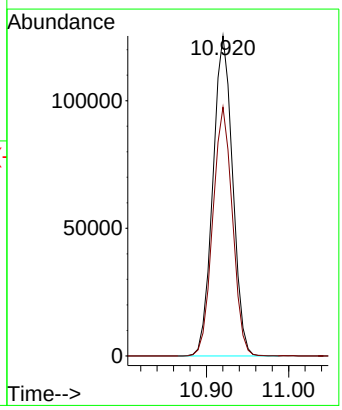
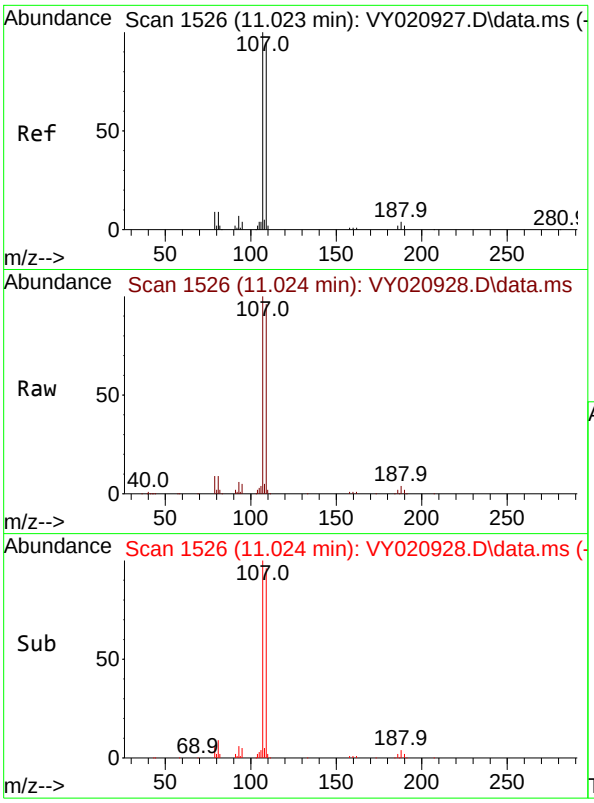



#60
Dibromochloromethane
Concen: 91.449 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:129 Resp: 209354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.2 | 39.2 | 117.6 |






#61
1,2-Dibromoethane
Concen: 88.720 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:107 Resp: 13803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.1 | 76.3 | 114.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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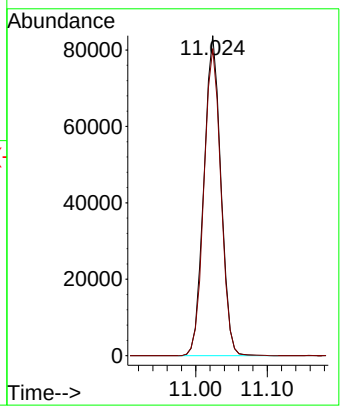
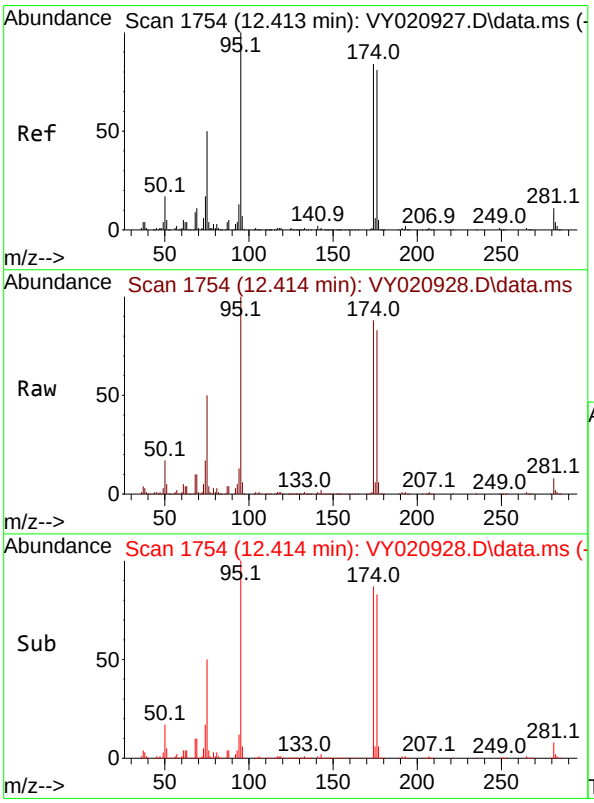
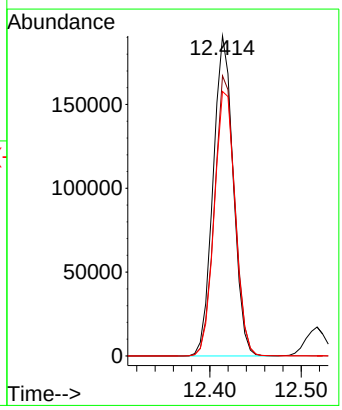


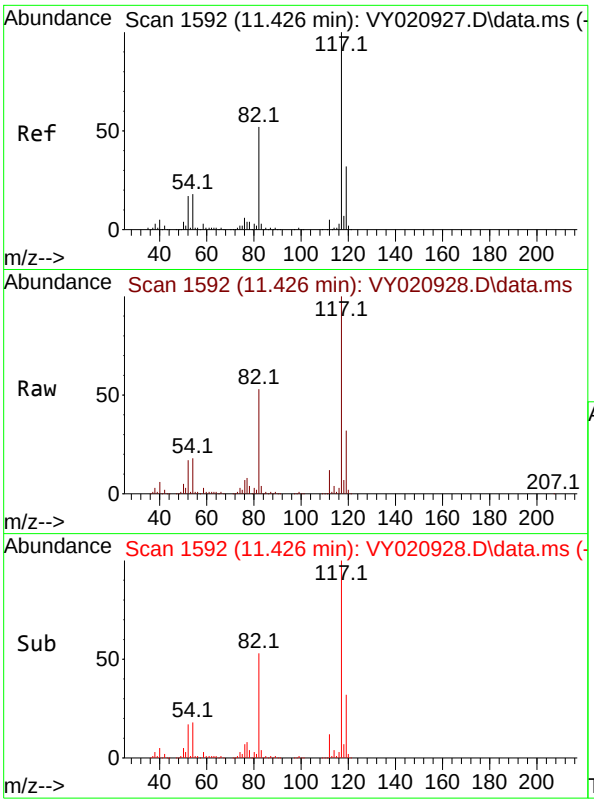




#62
4-Bromofluorobenzene
Concen: 96.943 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 95 Resp: 292974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 88.7 | 0.0 | 177.4 |
| 176 | 85.7 | 0.0 | 172.2 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:117 Resp: 34941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.5 | 41.8 | 62.8 |
| 119 | 32.3 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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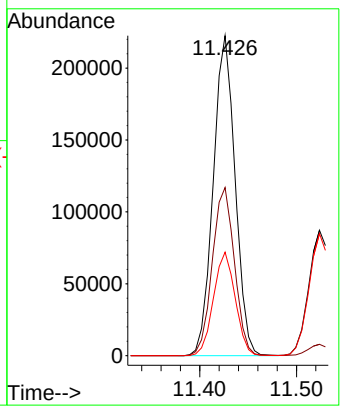
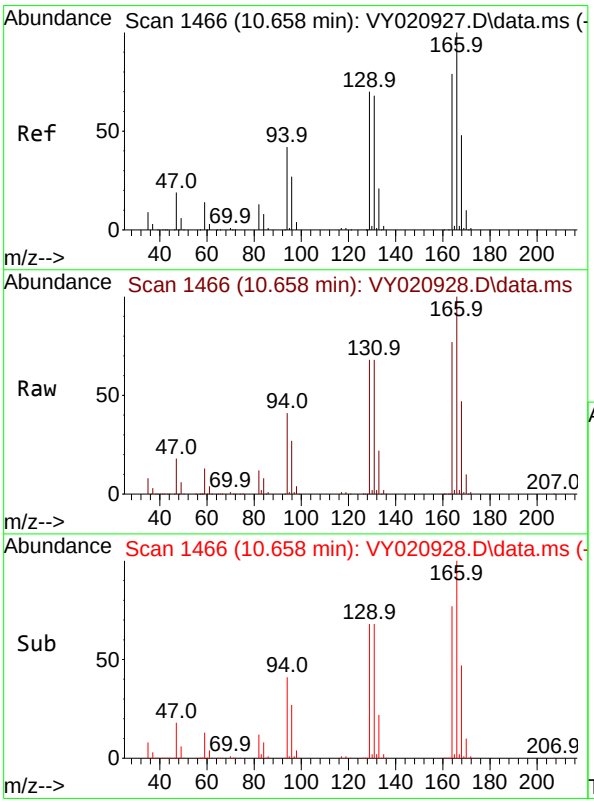
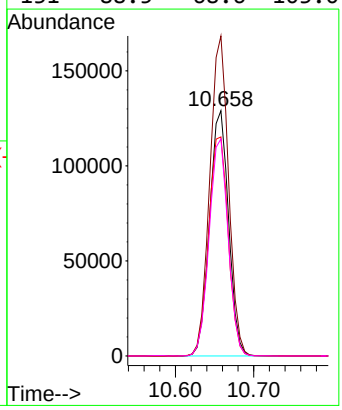


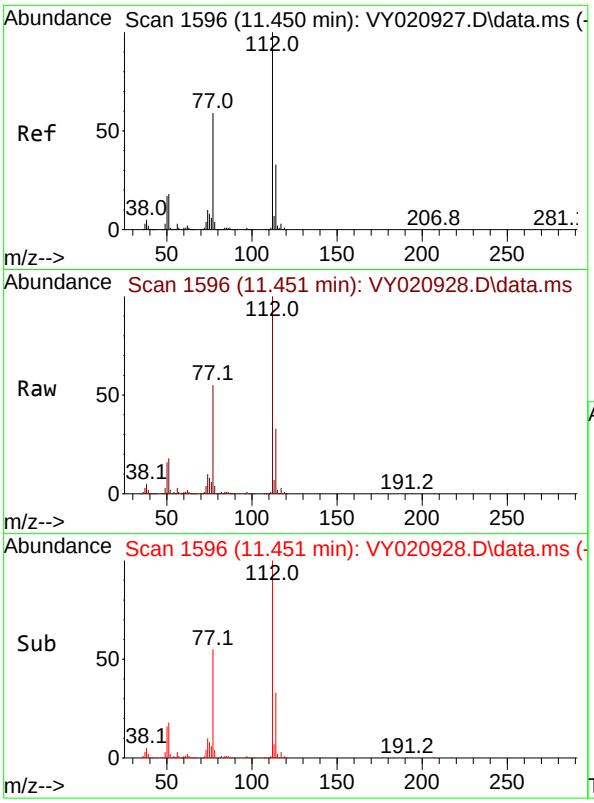




#64
Tetrachloroethene
Concen: 89.636 ug/l
RT: 10.658 min Scan# 1466
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:164 Resp: 217960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 130.5 | 101.0 | 151.6 |
| 129 | 89.3 | 70.8 | 106.2 |
| 131 | 88.5 | 68.6 | 103.0 |






#65
Chlorobenzene
Concen: 90.152 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:112 Resp: 61599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.5 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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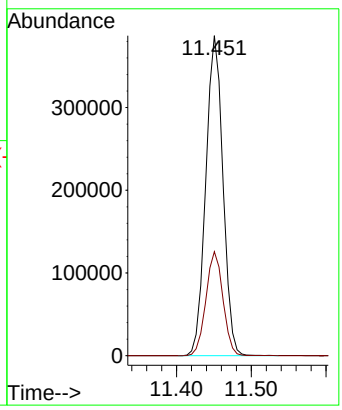
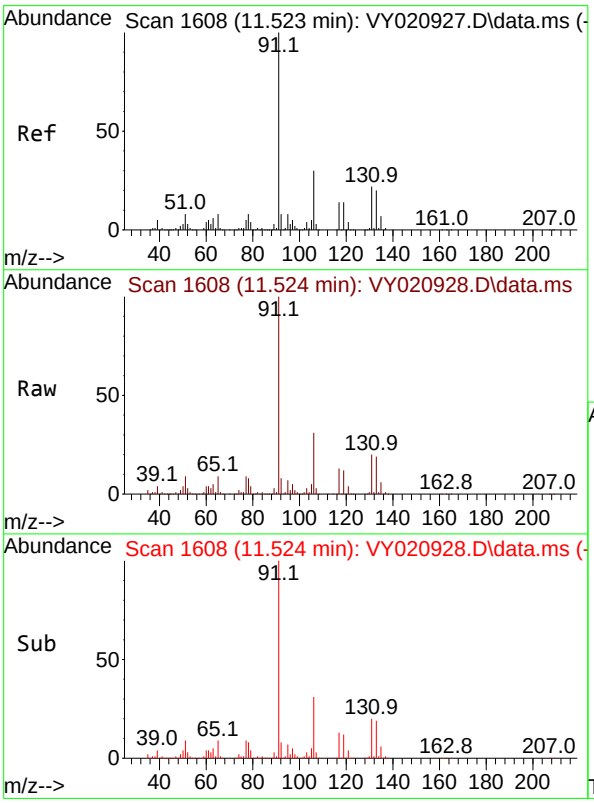
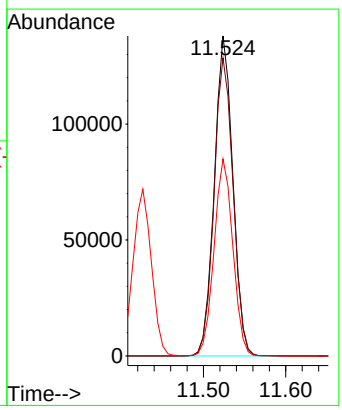


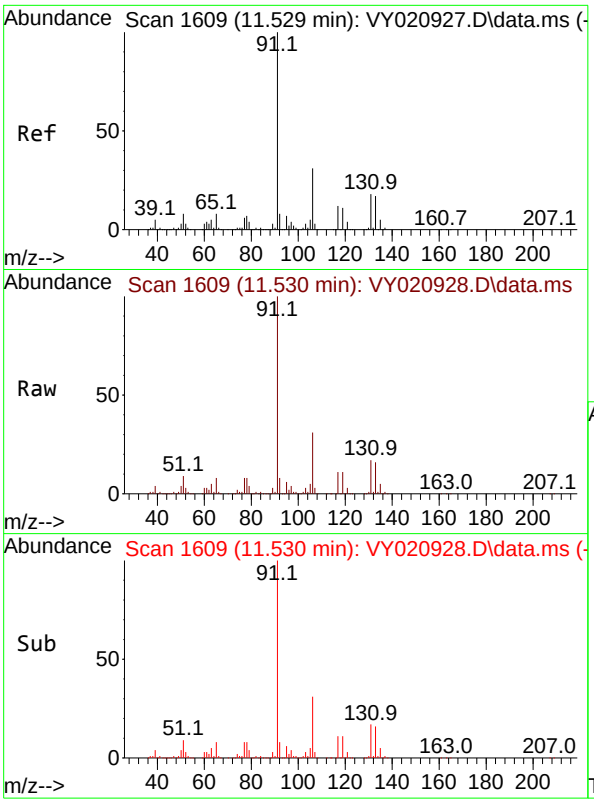




#66
1,1,1,2-Tetrachloroethane
Concen: 89.289 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:131 Resp: 216799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.6 | 47.5 | 142.6 |
| 119 | 62.5 | 31.2 | 93.6 |






#67
Ethyl Benzene
Concen: 91.728 ug/l
RT: 11.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 91 Resp: 109366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.4 | 25.2 | 37.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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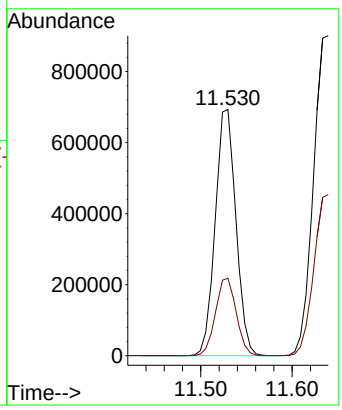
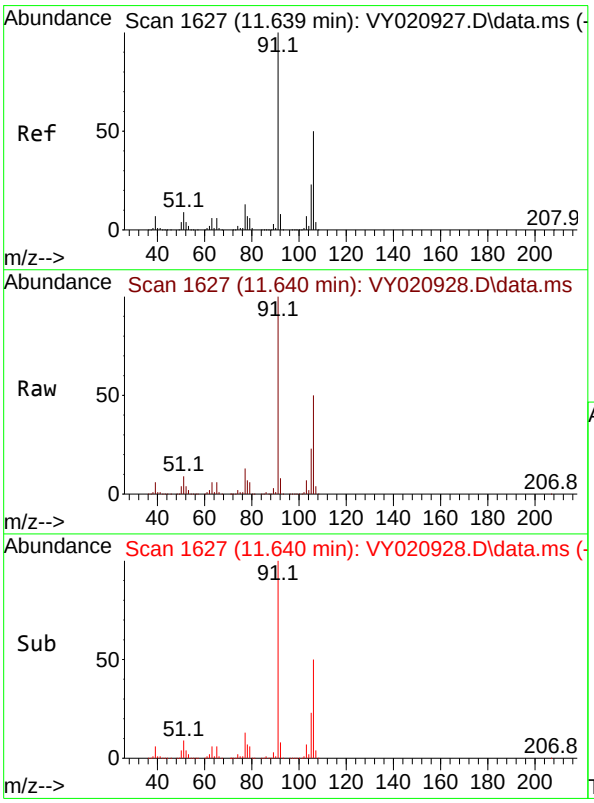
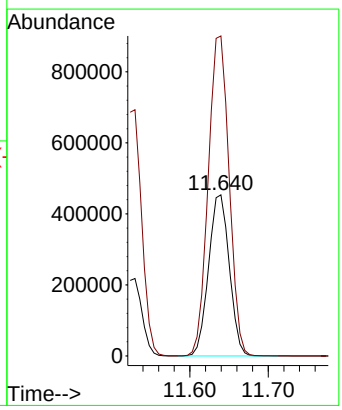


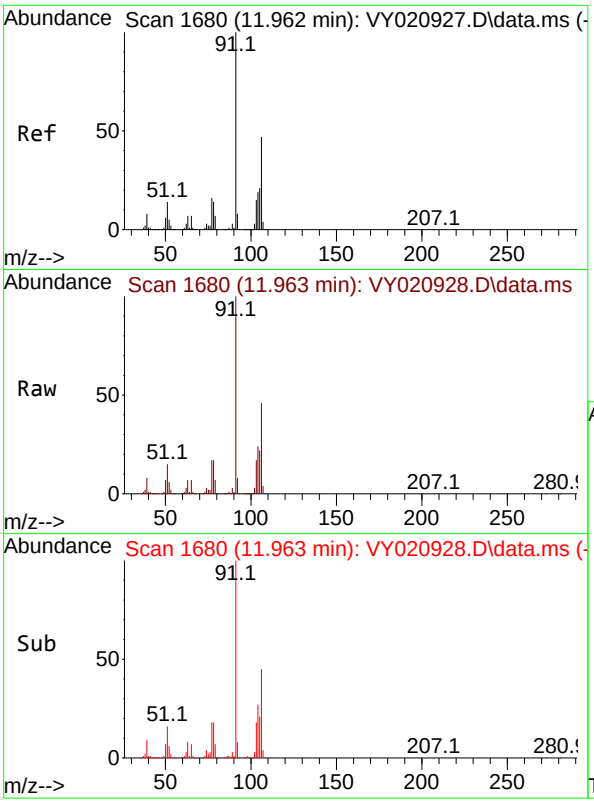




#68
m/p-Xylenes
Concen: 182.420 ug/l
RT: 11.640 min Scan# 1627
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:106 Resp: 832825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 200.5 | 159.5 | 239.3 |






#69
o-Xylene
Concen: 91.551 ug/l
RT: 11.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:106 Resp: 39041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 211.9 | 105.3 | 315.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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Supervised By :Mahesh Dadoda

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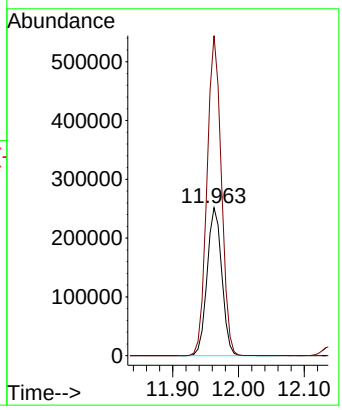
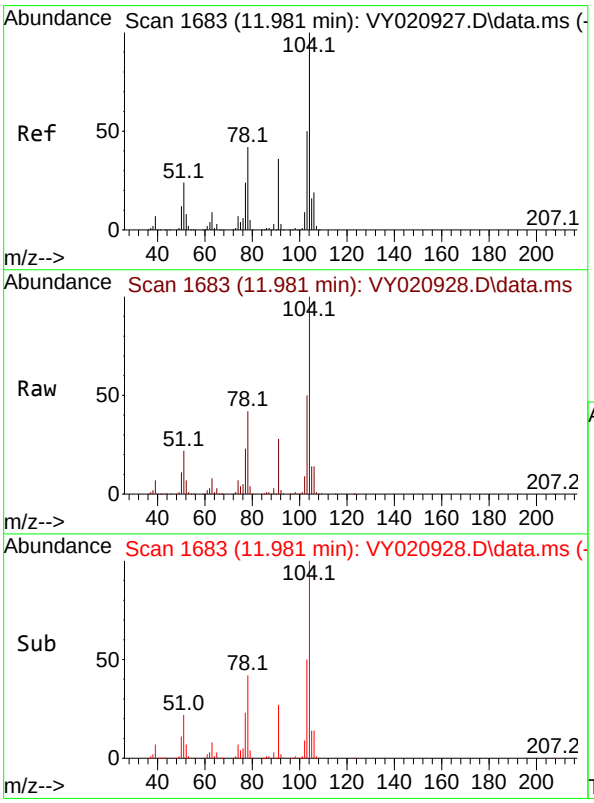
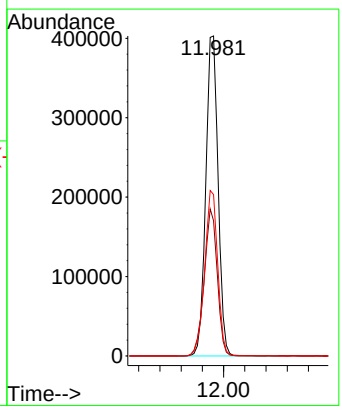


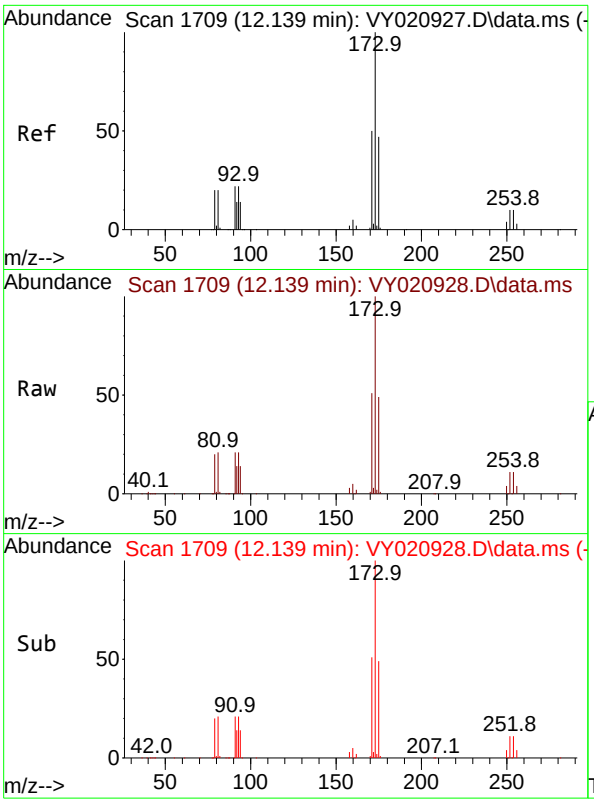




#70
Styrene
Concen: 92.633 ug/l
RT: 11.981 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:104 Resp: 647407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.8 | 38.5 | 57.7 |
| 103 | 54.8 | 43.4 | 65.2 |






#71
Bromoform
Concen: 89.832 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:173 Resp: 12351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.7 | 24.3 | 73.0 |
| 254 | 0.1 | 0.1 | 0.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

01/27/2025
Supervised By :Mahesh Dadoda

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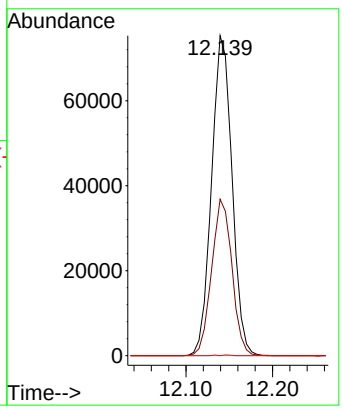
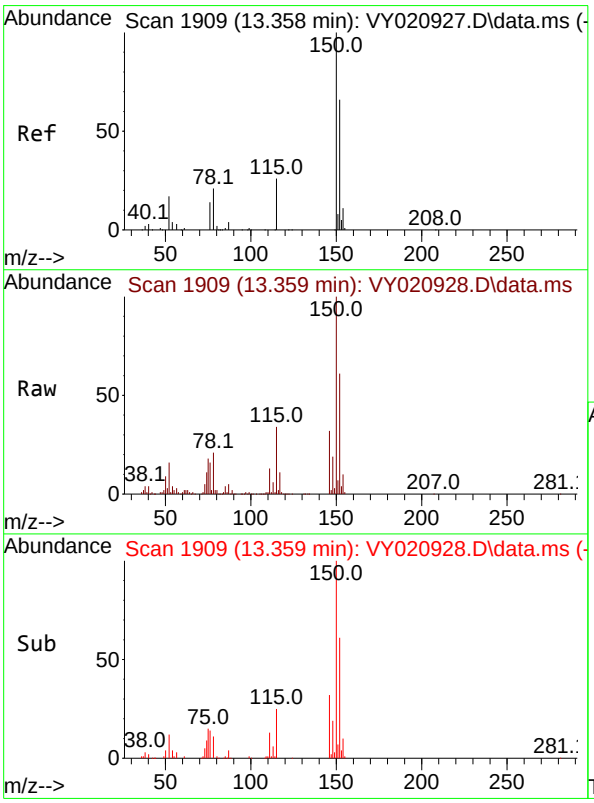
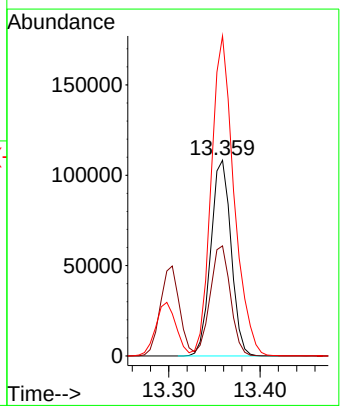


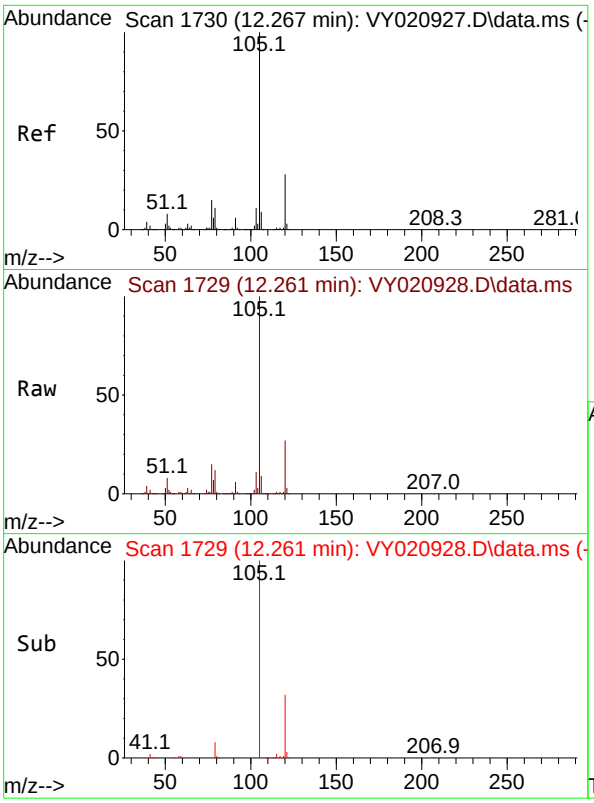




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:152 Resp: 166827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.1 | 29.0 | 87.0 |
| 150 | 183.8 | 0.0 | 347.6 |






#73
Isopropylbenzene
Concen: 91.442 ug/l
RT: 12.261 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:105 Resp: 105064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.9 | 13.4 | 40.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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Supervised By :Mahesh Dadoda

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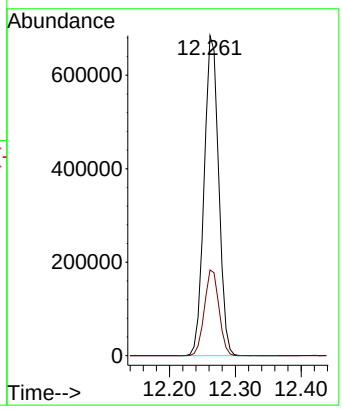
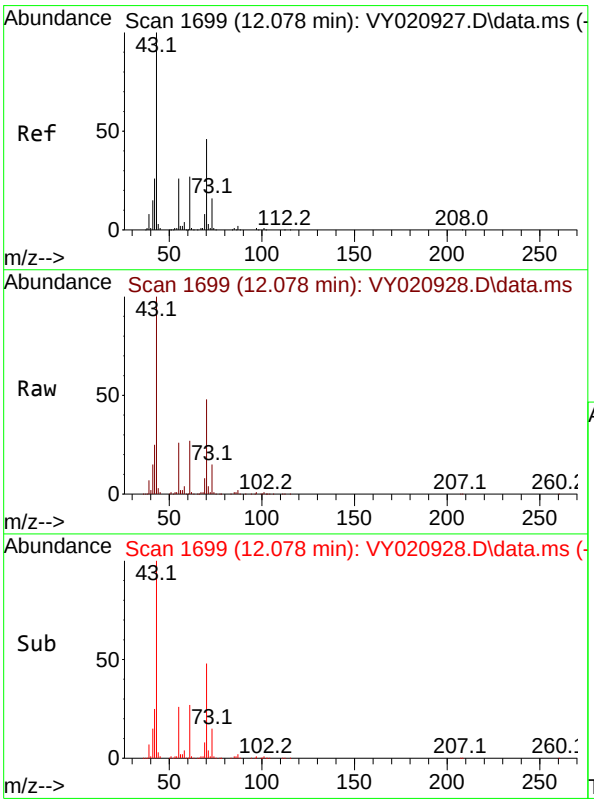
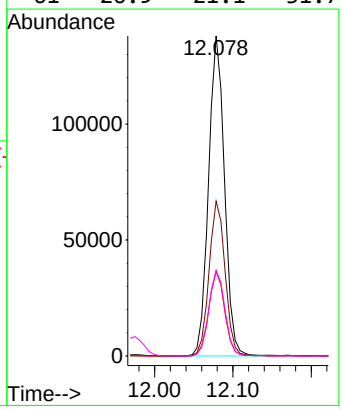


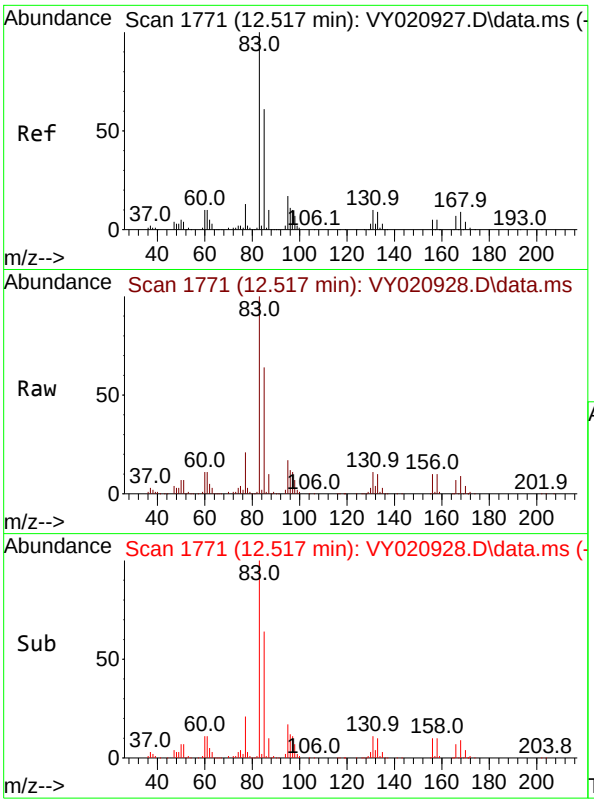




#74
N-amyl acetate
Concen: 95.353 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 43 Resp: 194951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 48.6 | 38.7 | 58.1 |
| 55 | 26.4 | 21.6 | 32.4 |
| 61 | 26.9 | 21.1 | 31.7 |






#75
1,1,2,2-Tetrachloroethane
Concen: 87.516 ug/l
RT: 12.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 83 Resp: 15645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.7 | 5.5 | 16.7 |
| 85 | 63.7 | 31.8 | 95.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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Supervised By :Mahesh Dadoda

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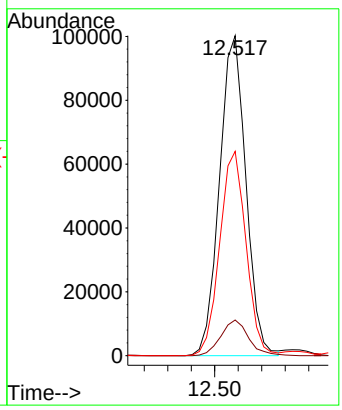
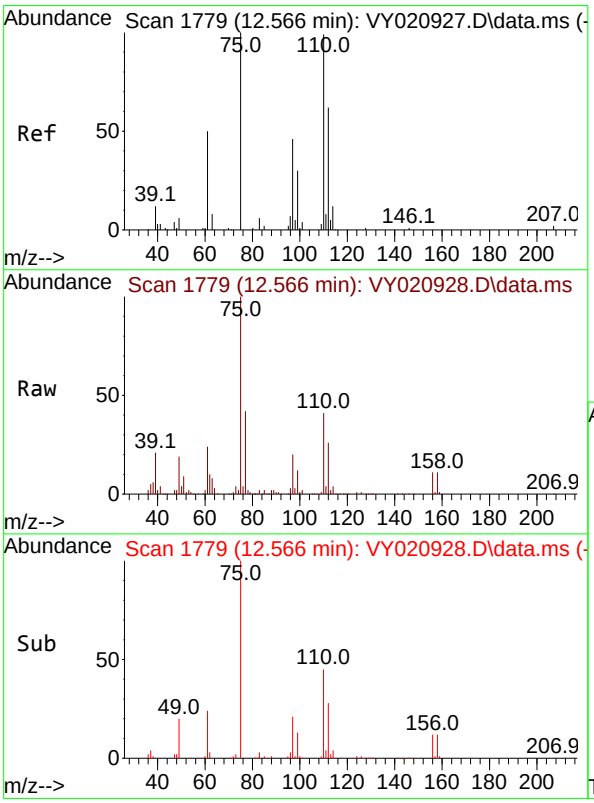
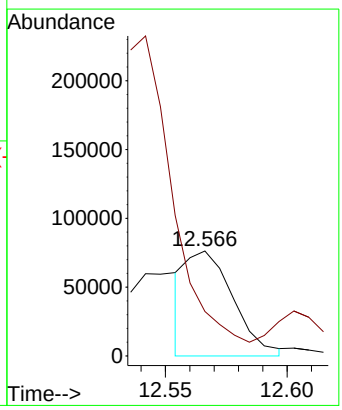


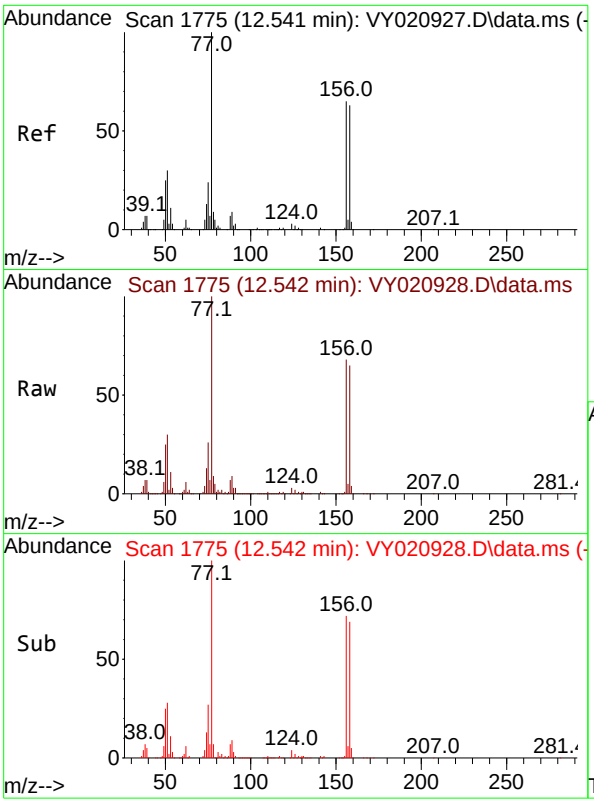




#76
1,2,3-Trichloropropane
Concen: 87.500 ug/l m
RT: 12.566 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 75 Resp: 103209

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






#77
Bromobenzene
Concen: 90.061 ug/l
RT: 12.542 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:156 Resp: 24255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 167.6 | 84.4 | 253.1 |
| 158 | 97.4 | 48.9 | 146.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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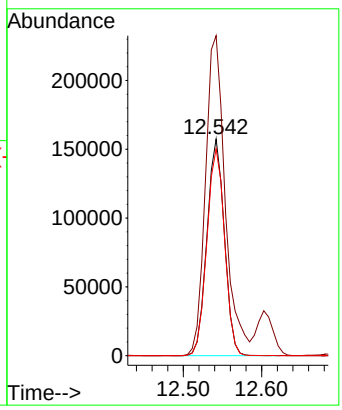
Supervised By :Mahesh Dadoda

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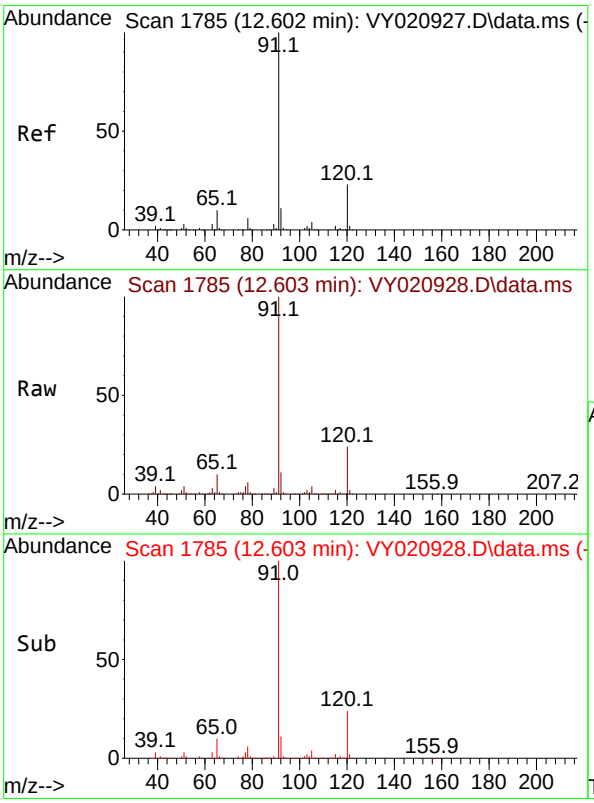
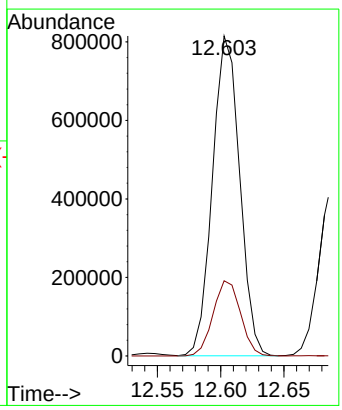
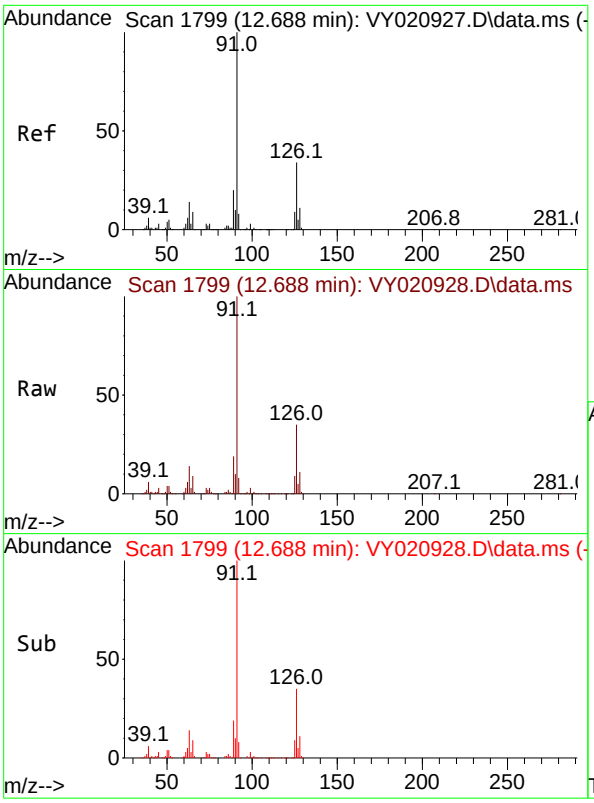



#78
n-propylbenzene
Concen: 91.014 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 91 Resp: 1218093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.7 | 11.8 | 35.4 |






#79
2-Chlorotoluene
Concen: 90.703 ug/l
RT: 12.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 91 Resp: 68850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.0 | 17.6 | 52.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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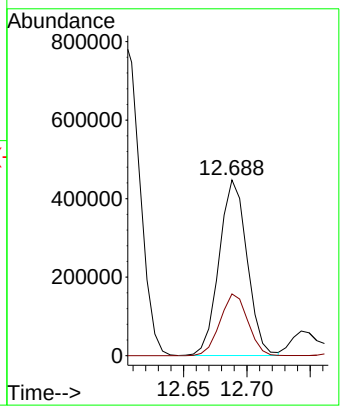
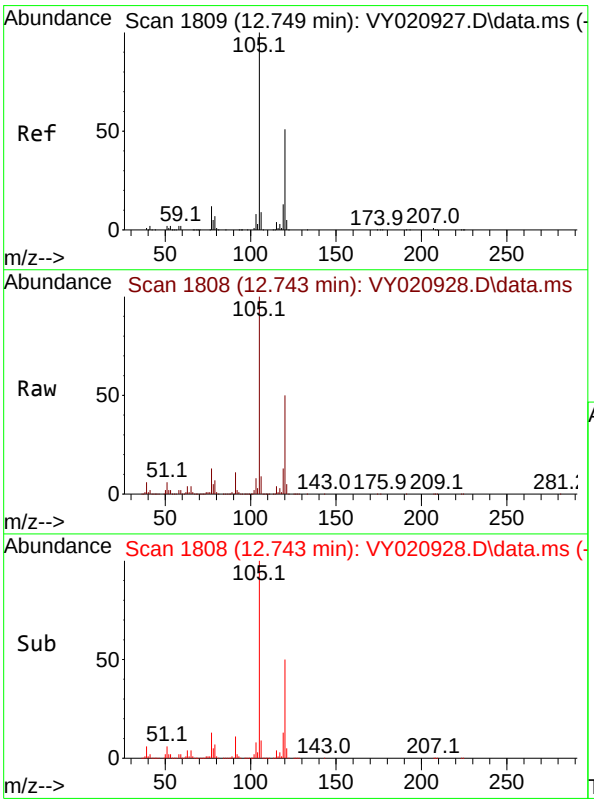
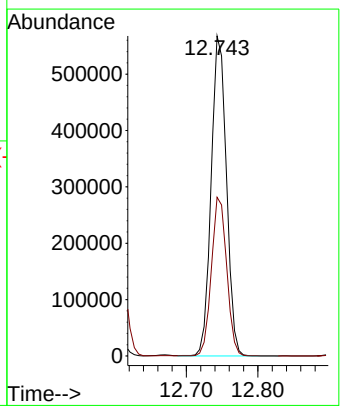


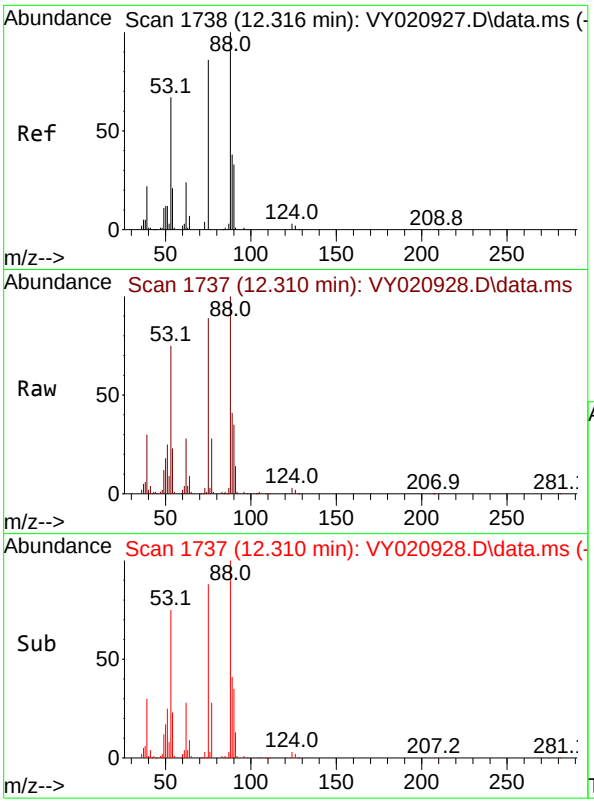




#80
1,3,5-Trimethylbenzene
Concen: 90.967 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:105 Resp: 839826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.8 | 24.9 | 74.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 93.700 ug/l
RT: 12.310 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

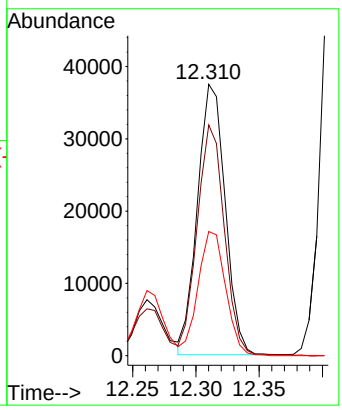
Tgt Ion: 75 Resp: 5720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 83.0 | 67.7 | 101.5 |
| 89 | 45.8 | 38.4 | 57.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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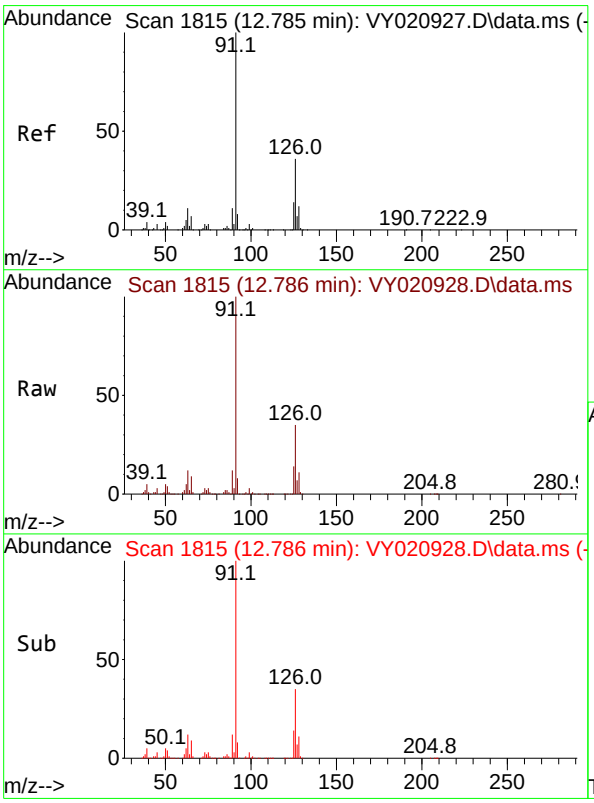
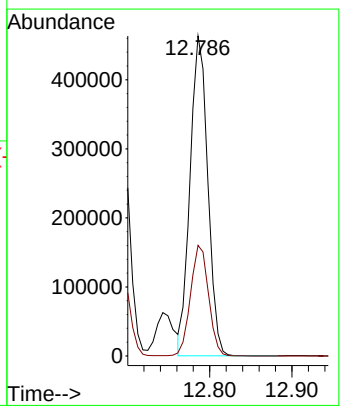
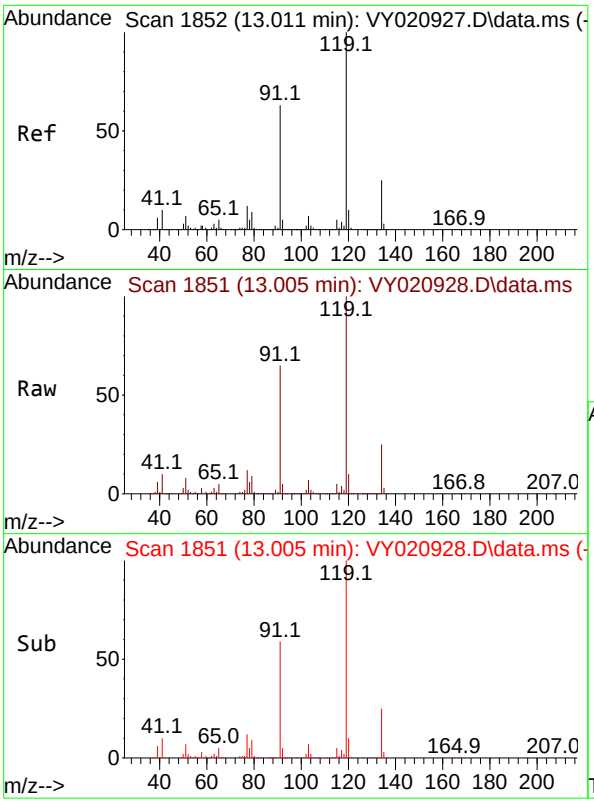



#82
4-Chlorotoluene
Concen: 89.236 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 91 Resp: 691697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.3 | 17.4 | 52.3 |






#83
tert-Butylbenzene
Concen: 91.221 ug/l
RT: 13.005 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

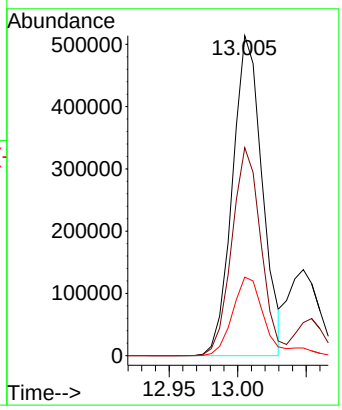
Tgt Ion:119 Resp: 77679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.9 | 30.9 | 92.8 |
| 134 | 27.0 | 13.1 | 39.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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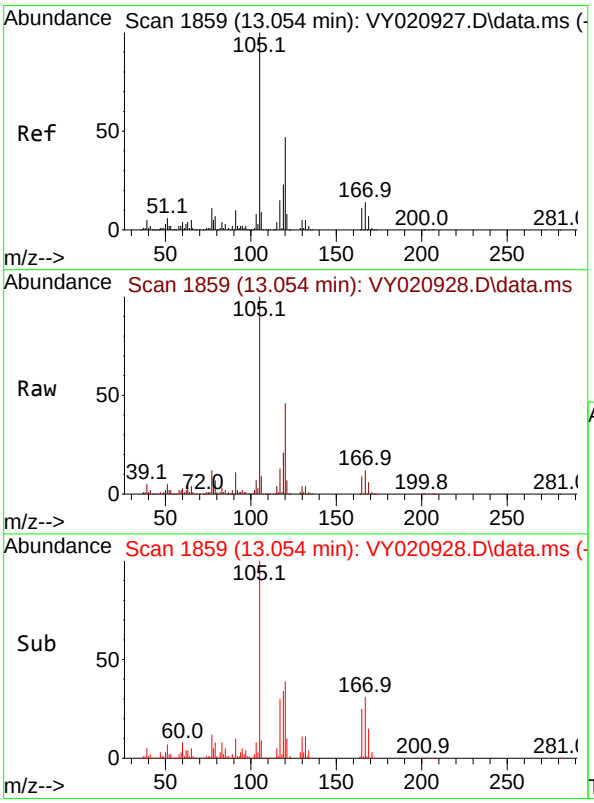
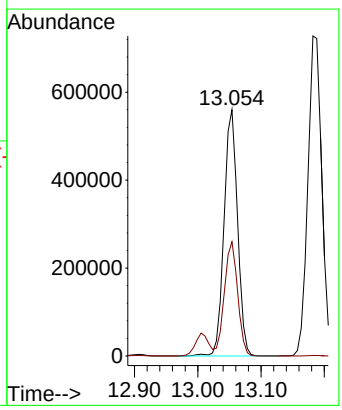
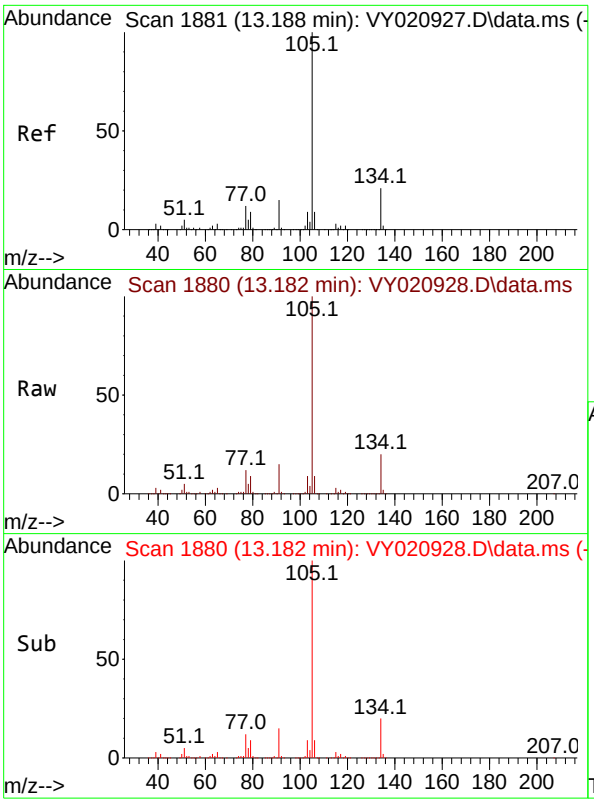



#84
1,2,4-Trimethylbenzene
Concen: 91.094 ug/l
RT: 13.054 min Scan# 1859
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:105 Resp: 827928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.8 | 22.9 | 68.7 |






#85
sec-Butylbenzene
Concen: 91.286 ug/l
RT: 13.182 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:105 Resp: 110830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.0 | 10.4 | 31.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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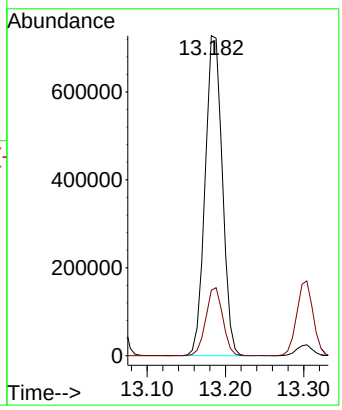
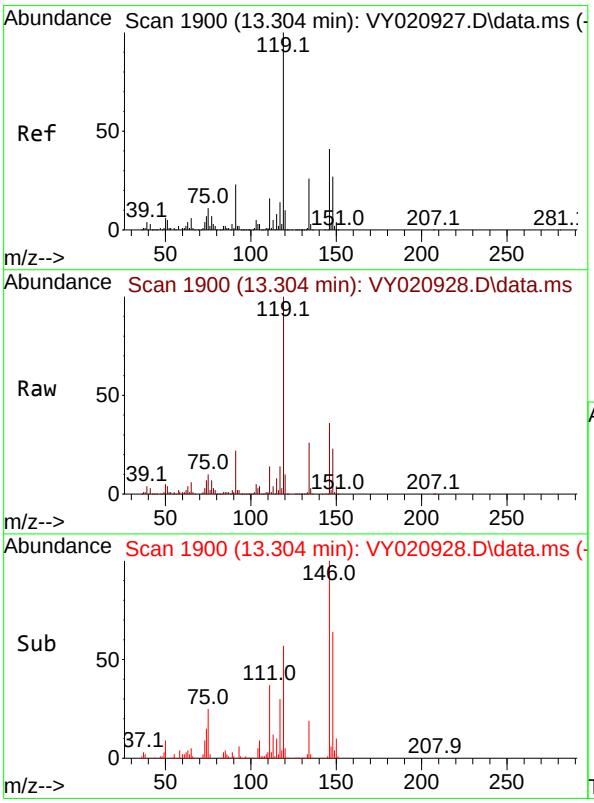
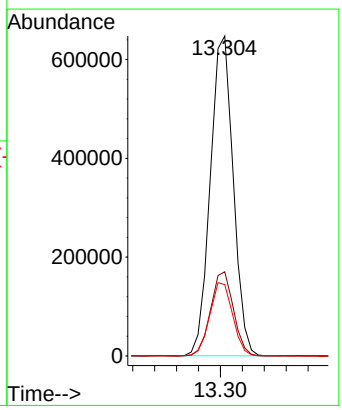


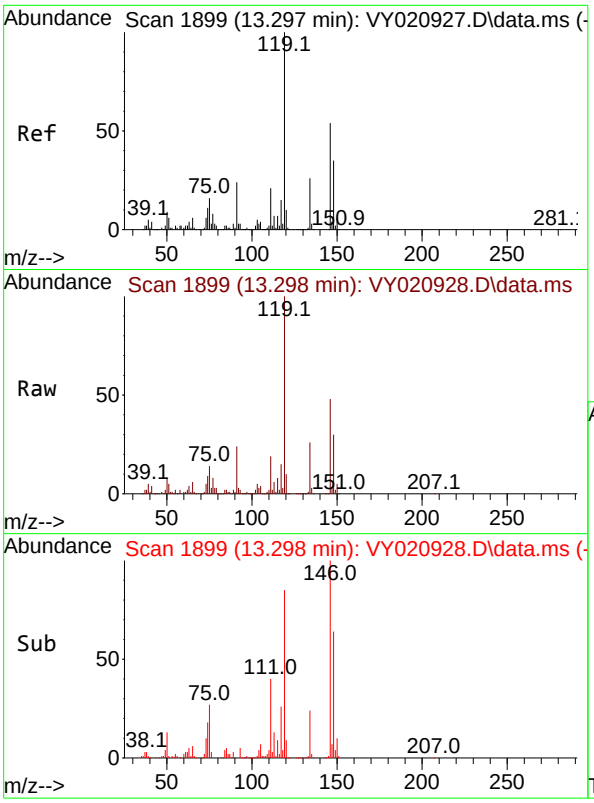




#86
p-Isopropyltoluene
Concen: 91.754 ug/l
RT: 13.304 min Scan# 1900
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:119 Resp: 941137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 13.3 | 39.8 |
| 91 | 22.9 | 11.6 | 34.7 |






#87
1,3-Dichlorobenzene
Concen: 88.704 ug/l
RT: 13.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:146 Resp: 45748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.4 | 58.2 |
| 148 | 63.7 | 31.9 | 95.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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Supervised By :Mahesh Dadoda

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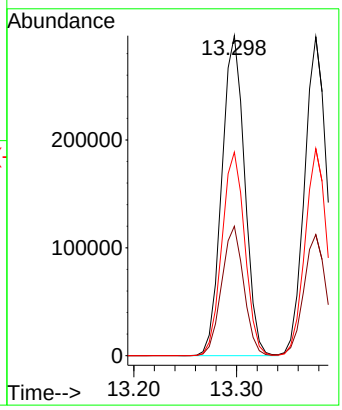
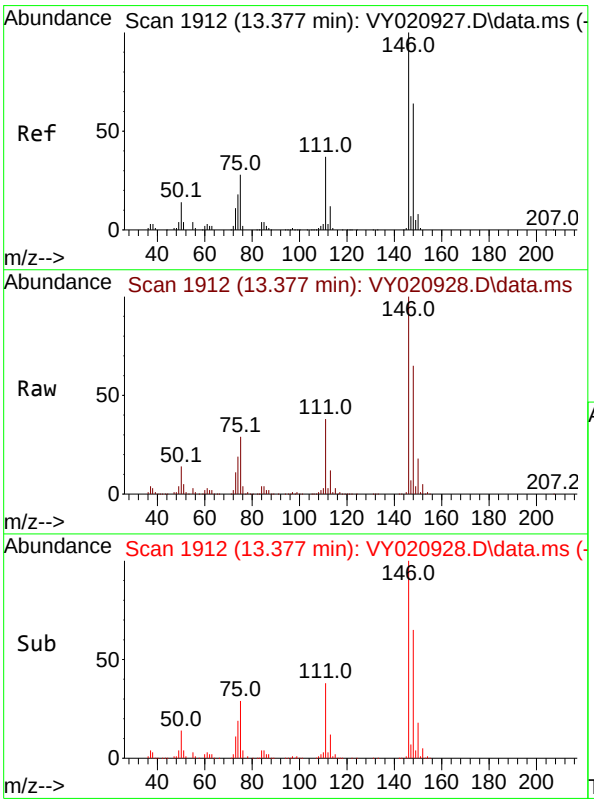
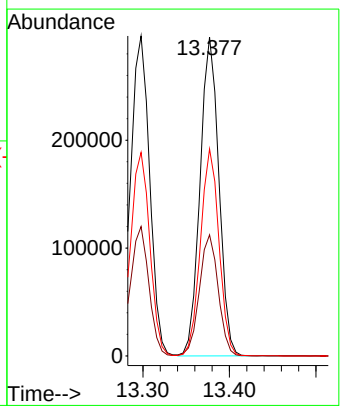


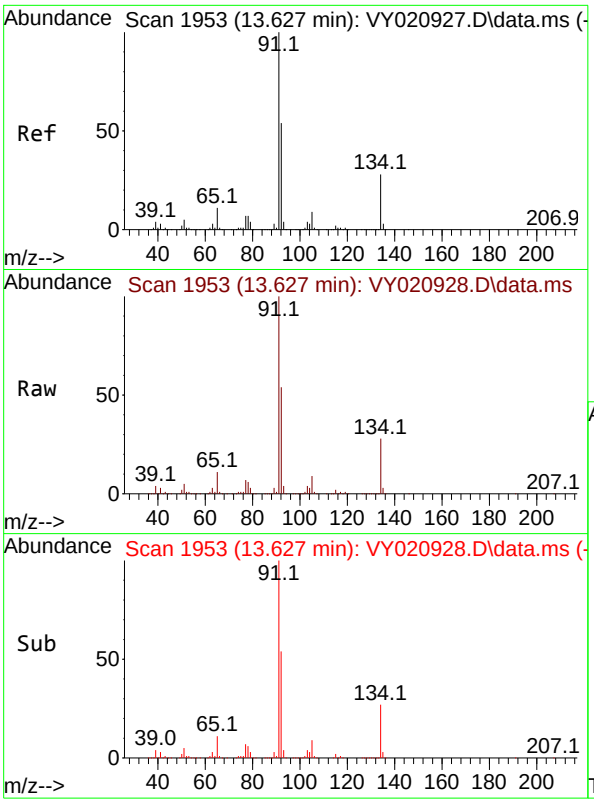




#88
1,4-Dichlorobenzene
Concen: 87.830 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:146 Resp: 444967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.1 | 18.8 | 56.4 |
| 148 | 64.2 | 32.0 | 96.0 |






#89
n-Butylbenzene
Concen: 93.535 ug/l
RT: 13.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 91 Resp: 84627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.0 | 26.8 | 80.3 |
| 134 | 27.7 | 13.8 | 41.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

01/27/2025
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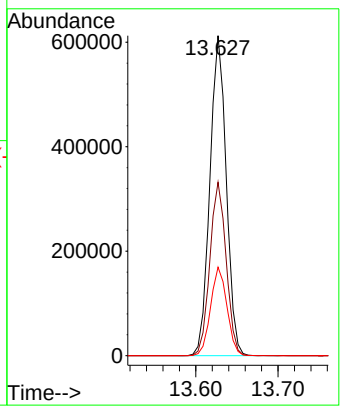
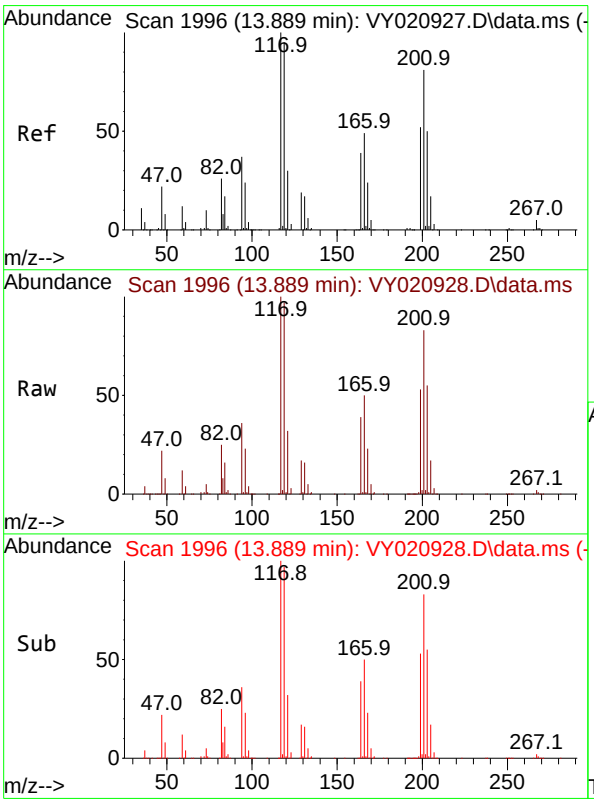
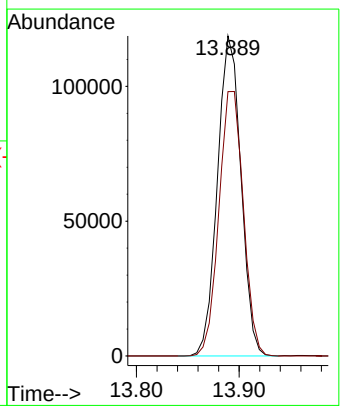


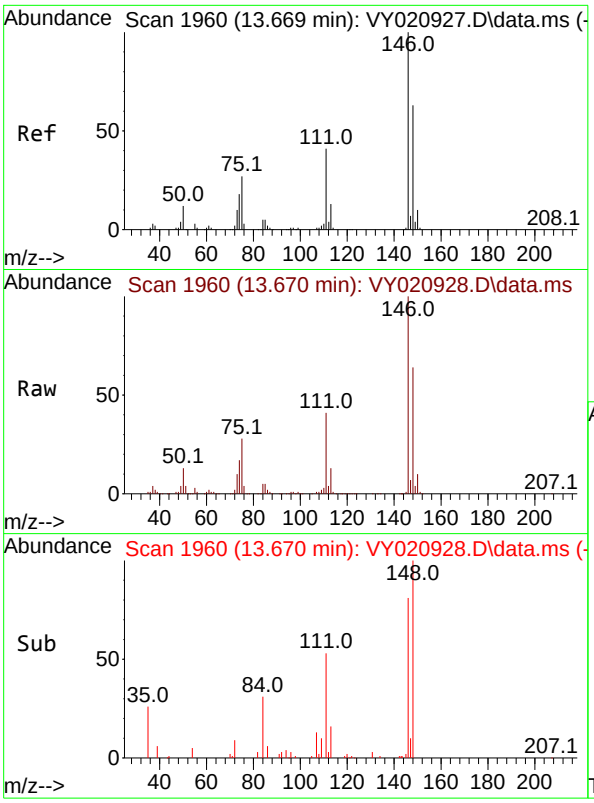




#90
Hexachloroethane
Concen: 92.529 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:117 Resp: 188537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 85.9 | 42.7 | 128.1 |






#91
1,2-Dichlorobenzene
Concen: 88.227 ug/l
RT: 13.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:146 Resp: 39422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.3 | 20.2 | 60.6 |
| 148 | 64.2 | 32.2 | 96.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

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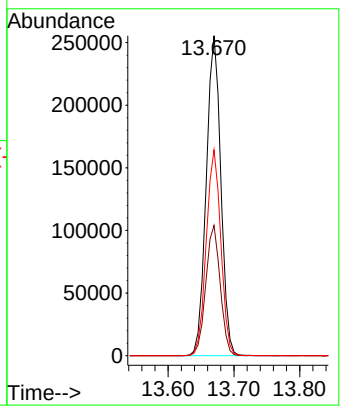
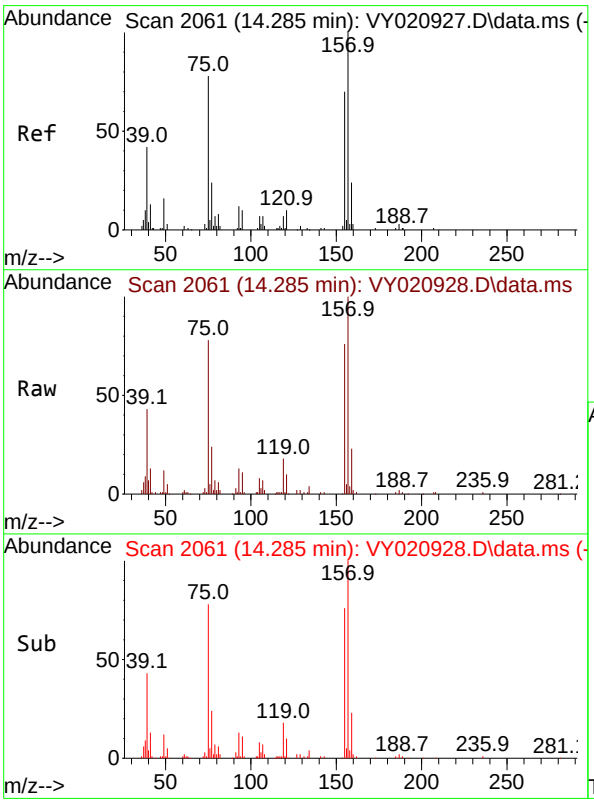
01/27/2025

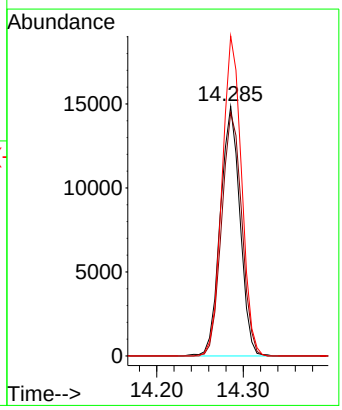


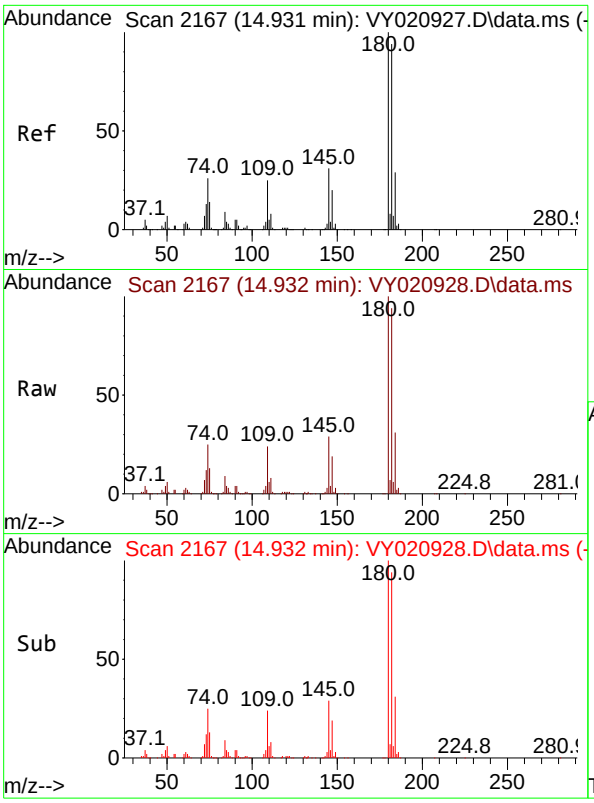




#92
1,2-Dibromo-3-Chloropropane
Concen: 86.917 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion: 75 Resp: 23342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 99.5 | 46.6 | 139.7 |
| 157 | 126.8 | 60.1 | 180.3 |






#93
1,2,4-Trichlorobenzene
Concen: 97.012 ug/l
RT: 14.932 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:180 Resp: 26076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.0 | 47.0 | 141.2 |
| 145 | 30.1 | 14.9 | 44.5 |

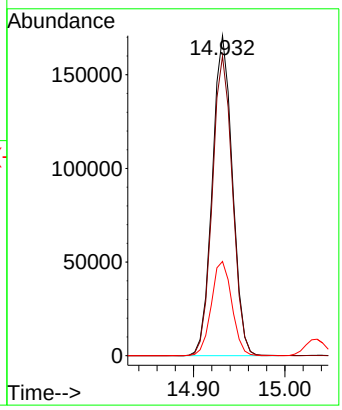
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

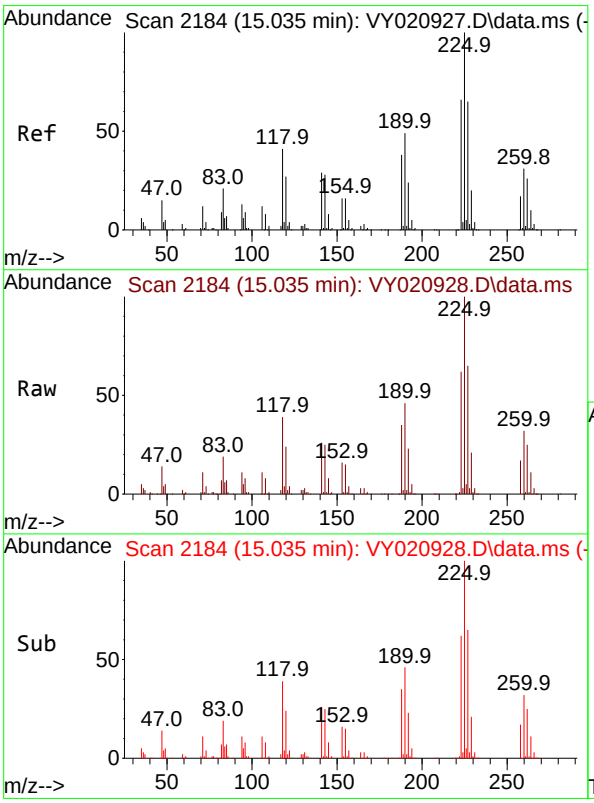
**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

01/27/2025
Supervised By :Mahesh Dadoda

01/27/2025

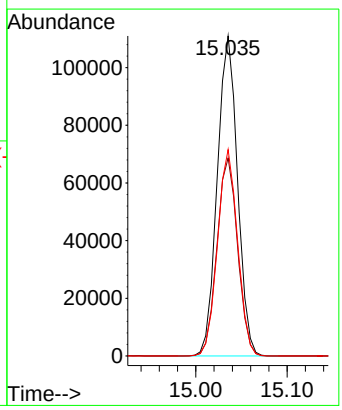


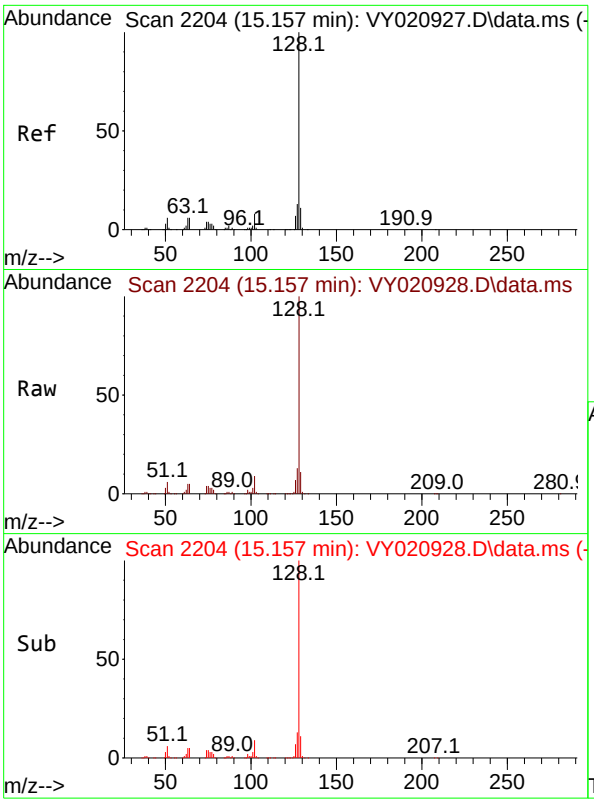




#94
Hexachlorobutadiene
Concen: 93.034 ug/l
RT: 15.035 min Scan# 2184
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:225 Resp: 171097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 31.5 | 94.5 |
| 227 | 63.9 | 31.9 | 95.9 |






#95
Naphthalene
Concen: 99.269 ug/l
RT: 15.157 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:128 Resp: 42788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.3 | 15.5 |
| 129 | 11.1 | 8.8 | 13.2 |

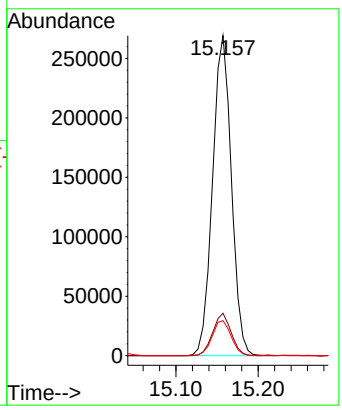
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

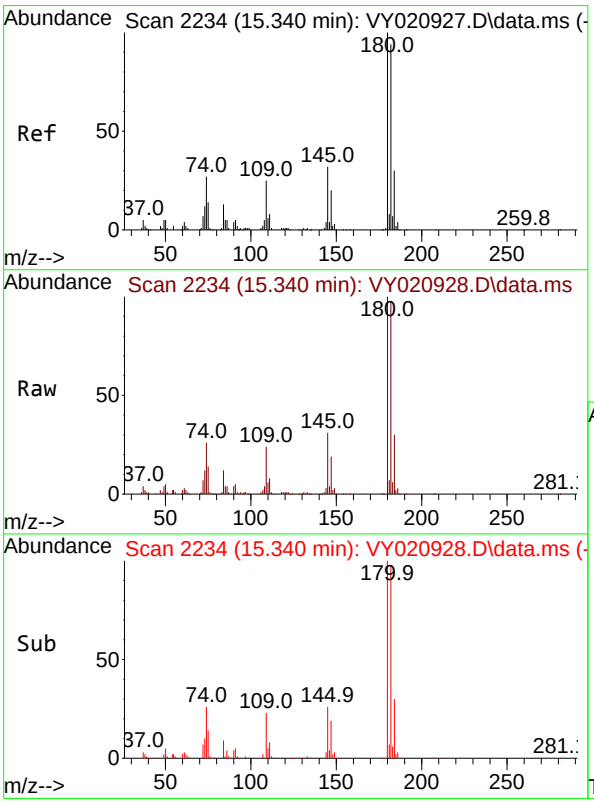
**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt

01/27/2025
Supervised By :Mahesh Dadoda

01/27/2025

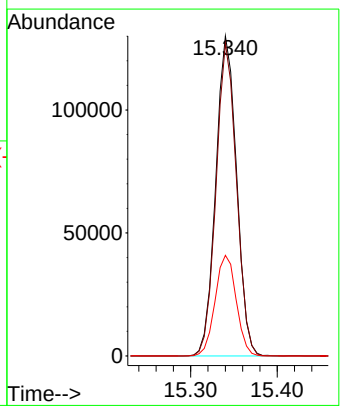



#96
1,2,3-Trichlorobenzene
Concen: 96.121 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020928.D
Acq: 24 Jan 2025 14:27

Tgt Ion:180 Resp: 217070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.0 | 47.5 | 142.6 |
| 145 | 31.9 | 15.7 | 47.0 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020929.D
Acq On : 24 Jan 2025 14:50
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 25 00:48:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**
Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 277863 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 404615 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 343708 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.359 | 152 | 159694 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 321950 | 145.323 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 290.640%# | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 344873 | 148.471 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 296.940%# | | | |
| 50) Toluene-d8 | 10.115 | 98 | 1346111 | 149.405 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 298.800%# | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 441957 | 147.391 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 294.780%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 310796 | 147.884 | ug/l | 99 |
| 3) Chloromethane | 2.074 | 50 | 230764 | 147.631 | ug/l | 97 |
| 4) Vinyl Chloride | 2.214 | 62 | 258098 | 151.500 | ug/l | 98 |
| 5) Bromomethane | 2.605 | 94 | 159242 | 138.007 | ug/l | 98 |
| 6) Chloroethane | 2.745 | 64 | 150359 | 150.437 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 557315 | 153.971 | ug/l | 96 |
| 8) Diethyl Ether | 3.464 | 74 | 174523 | 156.880 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 365115 | 152.875 | ug/l | 99 |
| 10) Methyl Iodide | 4.019 | 142 | 459572 | 161.464 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.885 | 59 | 98630 | 576.707 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.806 | 96 | 351022 | 155.630 | ug/l | 98 |
| 13) Acrolein | 3.665 | 56 | 177155 | 764.099 | ug/l | 97 |
| 14) Allyl chloride | 4.397 | 41 | 495487 | 157.395 | ug/l | 99 |
| 15) Acrylonitrile | 5.074 | 53 | 332632 | 760.663 | ug/l | 99 |
| 16) Acetone | 3.885 | 43 | 218230 | 727.039 | ug/l | 93 |
| 17) Carbon Disulfide | 4.123 | 76 | 1081484 | 155.262 | ug/l | 100 |
| 18) Methyl Acetate | 4.397 | 43 | 161739 | 149.161 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.135 | 73 | 817565 | 156.498 | ug/l | 99 |
| 20) Methylene Chloride | 4.635 | 84 | 335626 | 150.345 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.135 | 96 | 373801 | 153.713 | ug/l | 98 |
| 22) Diisopropyl ether | 6.037 | 45 | 969992 | 153.185 | ug/l | 97 |
| 23) Vinyl Acetate | 5.976 | 43 | 2722107 | 776.741 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.933 | 63 | 620975 | 154.703 | ug/l | 100 |
| 25) 2-Butanone | 6.909 | 43 | 380944 | 749.216 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 6.903 | 77 | 591403 | 149.583 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.903 | 96 | 424941 | 154.834 | ug/l | 99 |
| 28) Bromochloromethane | 7.256 | 49 | 247375 | 153.128 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.274 | 42 | 258283 | 762.199 | ug/l | 98 |
| 30) Chloroform | 7.433 | 83 | 658549 | 155.015 | ug/l | 100 |
| 31) Cyclohexane | 7.713 | 56 | 567808 | 143.926 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 638490 | 154.945 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 497951 | 153.542 | ug/l | 100 |
| 37) Ethyl Acetate | 6.994 | 43 | 185129 | 147.131 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 607007 | 155.205 | ug/l | 99 |
| 39) Methylcyclohexane | 9.116 | 83 | 694607 | 158.206 | ug/l | 100 |
| 40) Benzene | 8.091 | 78 | 1462146 | 153.678 | ug/l | 100 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020929.D
Acq On : 24 Jan 2025 14:50
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 25 00:48:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 113732 | 171.106 ug/l | 93 |
| 42) 1,2-Dichloroethane | 8.171 | 62 | 363795 | 153.667 ug/l | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 384473 | 161.137 ug/l | 100 |
| 44) Trichloroethene | 8.872 | 130 | 403442 | 156.082 ug/l | 100 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 328095 | 156.221 ug/l | 97 |
| 46) Dibromomethane | 9.237 | 93 | 185339 | 155.229 ug/l | 99 |
| 47) Bromodichloromethane | 9.433 | 83 | 499364 | 157.187 ug/l | 98 |
| 48) Methyl methacrylate | 9.225 | 41 | 181962 | 161.667 ug/l | 99 |
| 49) 1,4-Dioxane | 9.237 | 88 | 37947 | 3086.764 ug/l | 94 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 938516 | 780.092 ug/l | 98 |
| 52) Toluene | 10.176 | 92 | 952872 | 155.721 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 469597 | 161.215 ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 552753 | 158.921 ug/l | 99 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 248552 | 154.005 ug/l | 98 |
| 56) Ethyl methacrylate | 10.445 | 69 | 356853 | 168.715 ug/l | 98 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 422652 | 154.155 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 803761 | 837.262 ug/l | 99 |
| 59) 2-Hexanone | 10.768 | 43 | 624904 | 807.765 ug/l | 100 |
| 60) Dibromochloromethane | 10.920 | 129 | 359156 | 158.120 ug/l | 98 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 240533 | 155.820 ug/l | 99 |
| 64) Tetrachloroethene | 10.658 | 164 | 369115 | 154.318 ug/l | 98 |
| 65) Chlorobenzene | 11.450 | 112 | 1043145 | 155.201 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 367808 | 153.997 ug/l | 100 |
| 67) Ethyl Benzene | 11.524 | 91 | 1832080 | 156.212 ug/l | 100 |
| 68) m/p-Xylenes | 11.639 | 106 | 1400598 | 311.877 ug/l | 100 |
| 69) o-Xylene | 11.963 | 106 | 654879 | 156.114 ug/l | 99 |
| 70) Styrene | 11.975 | 104 | 1084023 | 157.680 ug/l | 99 |
| 71) Bromoform | 12.139 | 173 | 208492 | 154.159 ug/l # | 99 |
| 73) Isopropylbenzene | 12.261 | 105 | 1743202 | 158.495 ug/l | 100 |
| 74) N-amyl acetate | 12.078 | 43 | 332775 | 170.034 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.517 | 83 | 262465 | 153.376 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.566 | 75 | 166975m | 147.884 ug/l | |
| 77) Bromobenzene | 12.542 | 156 | 408593 | 158.485 ug/l | 99 |
| 78) n-propylbenzene | 12.603 | 91 | 2002187 | 156.282 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 1136871 | 156.460 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 1378679 | 156.003 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 96991 | 165.961 ug/l | 99 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 1143182 | 154.069 ug/l | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 1267671 | 155.515 ug/l | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.054 | 105 | 1368819 | 157.334 ug/l | 100 |
| 85) sec-Butylbenzene | 13.188 | 105 | 1818367 | 156.460 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 1539802 | 156.824 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.298 | 146 | 758486 | 153.637 ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 744117 | 153.438 ug/l | 100 |
| 89) n-Butylbenzene | 13.627 | 91 | 1380734 | 159.423 ug/l | 99 |
| 90) Hexachloroethane | 13.889 | 117 | 313343 | 160.650 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 13.670 | 146 | 660246 | 154.362 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 41420 | 161.122 ug/l | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 449246 | 174.595 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 283490 | 161.033 ug/l | 99 |
| 95) Naphthalene | 15.157 | 128 | 774405 | 187.684 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 381981 | 176.701 ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020929.D
Acq On : 24 Jan 2025 14:50
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Quant Time: Jan 25 00:48:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

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

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

Quantitation Report (QT Reviewed)

ICAL Form

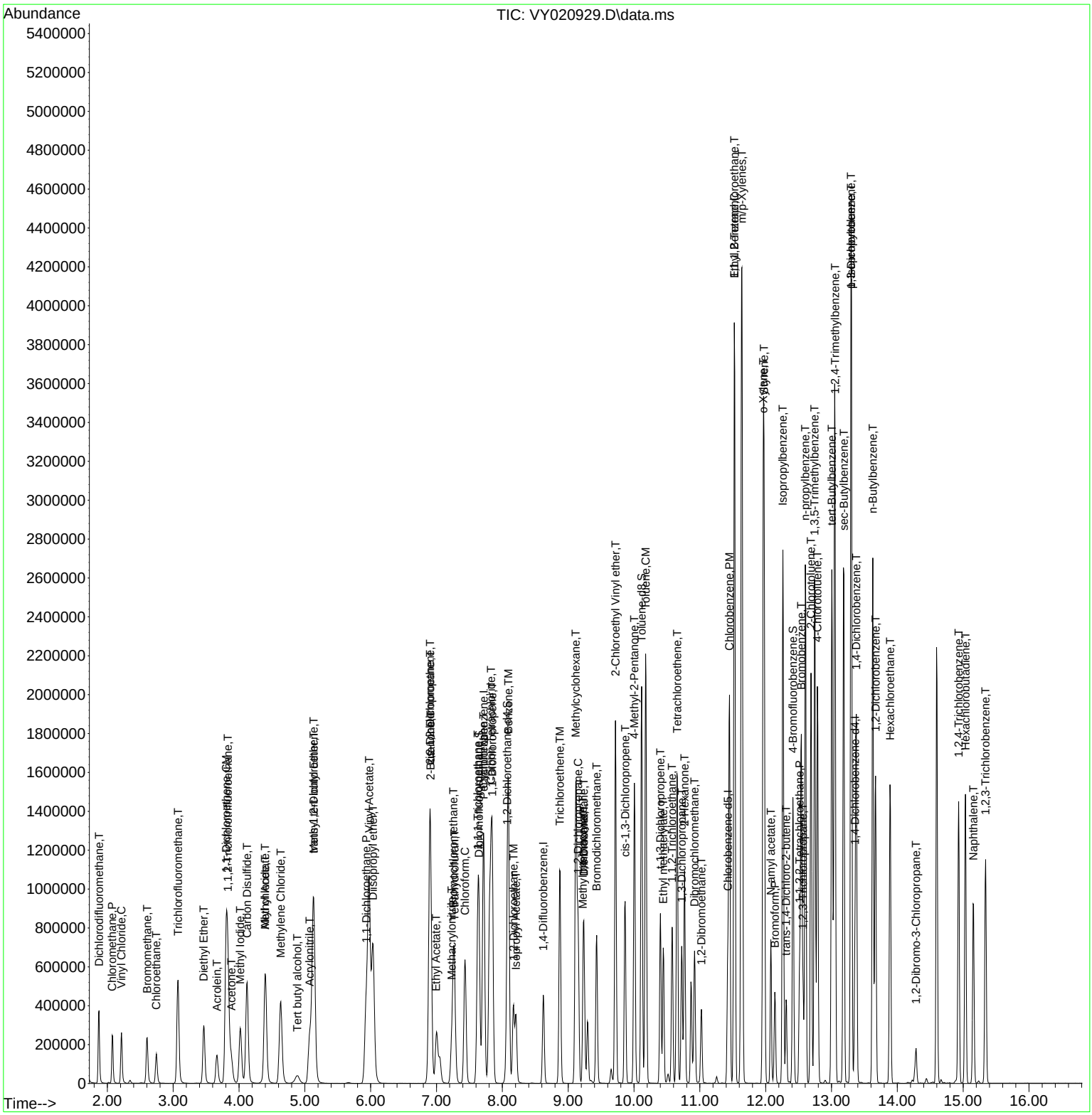
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020929.D
Acq On : 24 Jan 2025 14:50
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

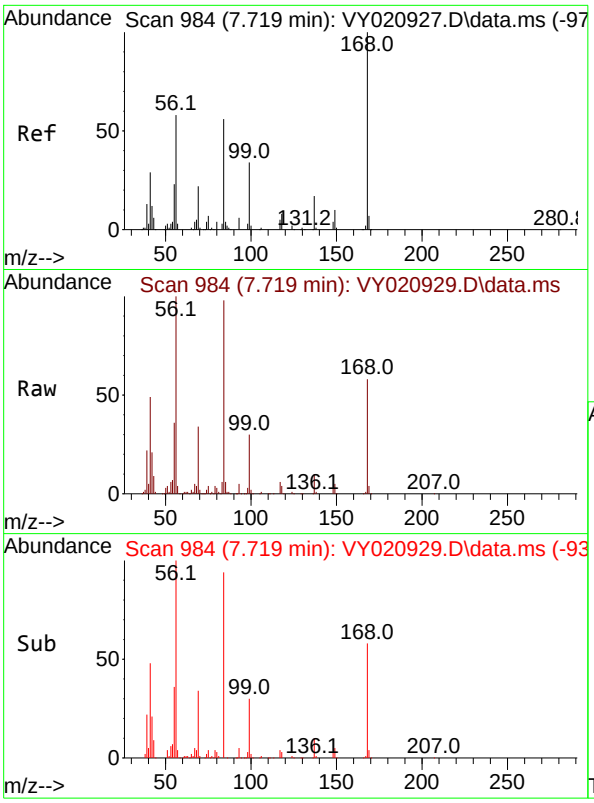
Quant Time: Jan 25 00:48:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

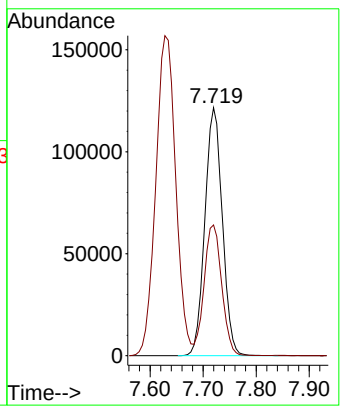
Tgt Ion:168 Resp: 27786

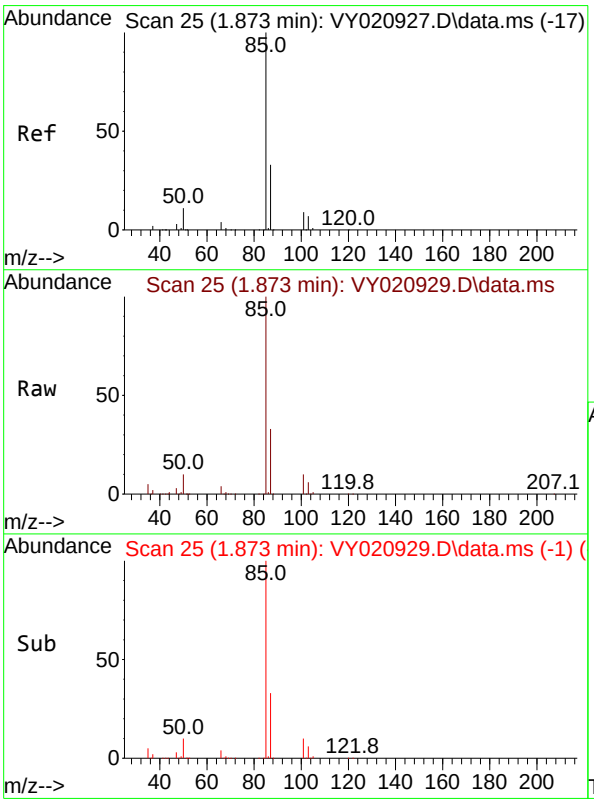
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 52.6 | 43.0 | 64.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

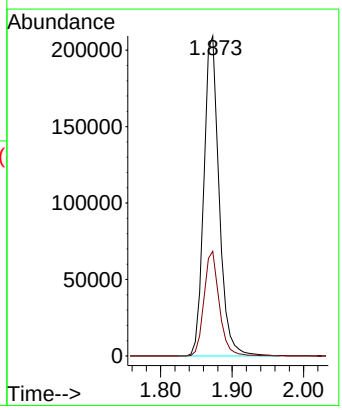


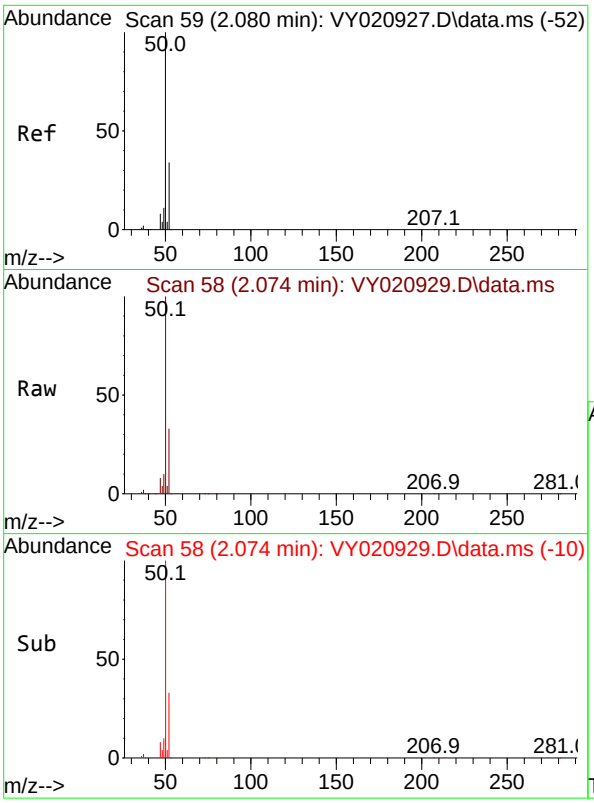




#2
Dichlorodifluoromethane
Concen: 147.884 ug/l
RT: 1.873 min Scan# 25
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 85 Resp: 310796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.7 | 16.6 | 49.8 |






#3
Chloromethane
Concen: 147.631 ug/l
RT: 2.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

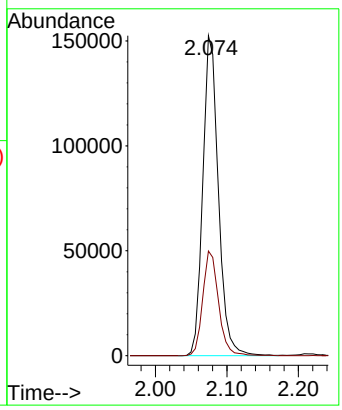
Tgt Ion: 50 Resp: 23076

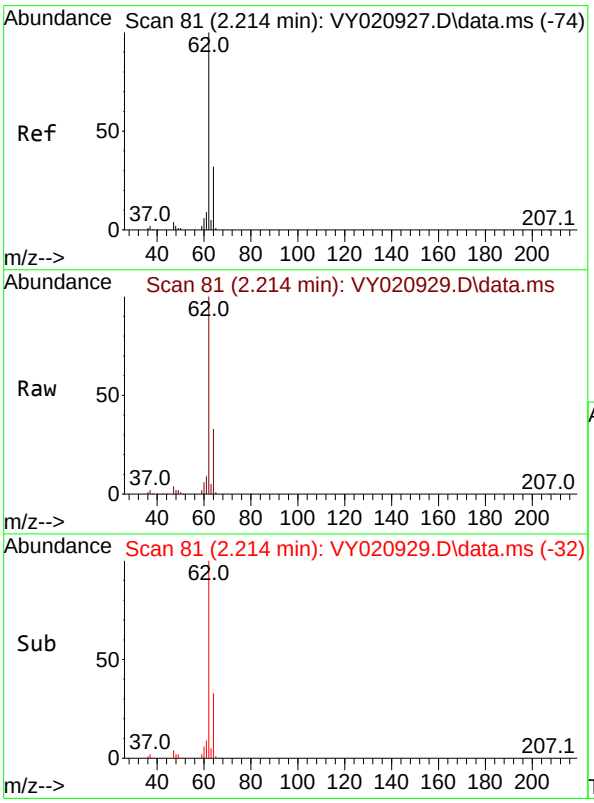
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.7 | 27.4 | 41.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

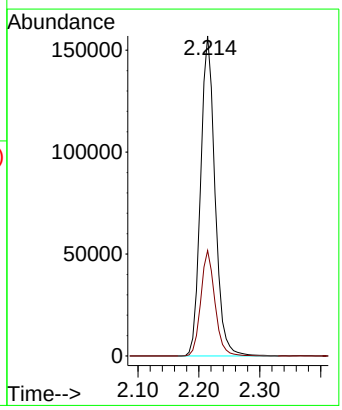


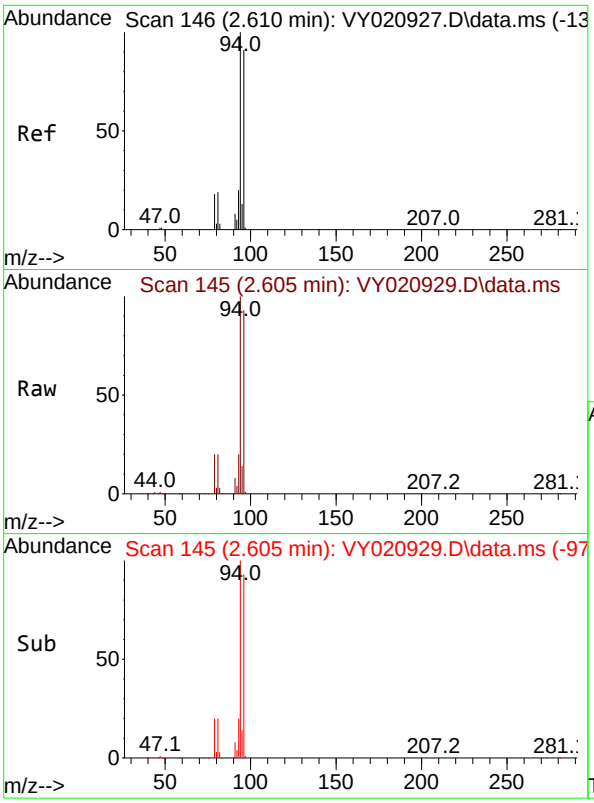




#4
Vinyl Chloride
Concen: 151.500 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 62 Resp: 258098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.0 | 25.7 | 38.5 |






#5
Bromomethane
Concen: 138.007 ug/l
RT: 2.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

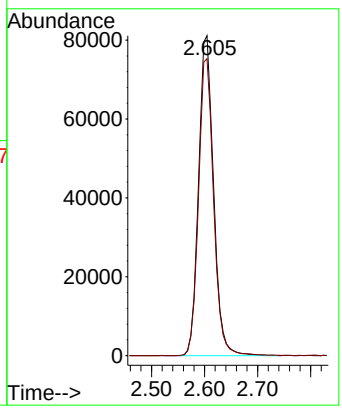
Tgt Ion: 94 Resp: 15924

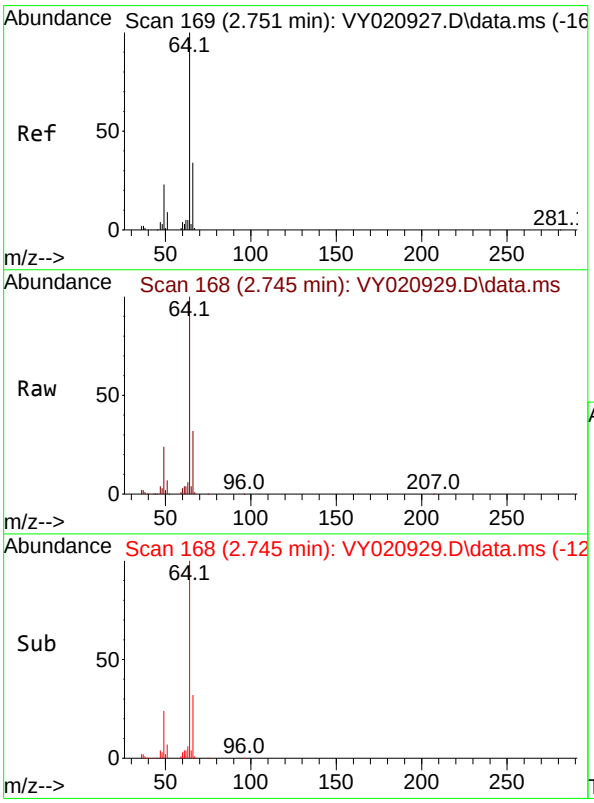
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.7 | 72.6 | 109.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

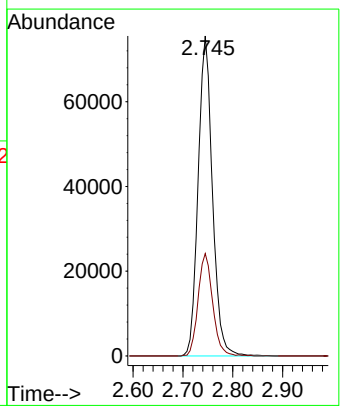


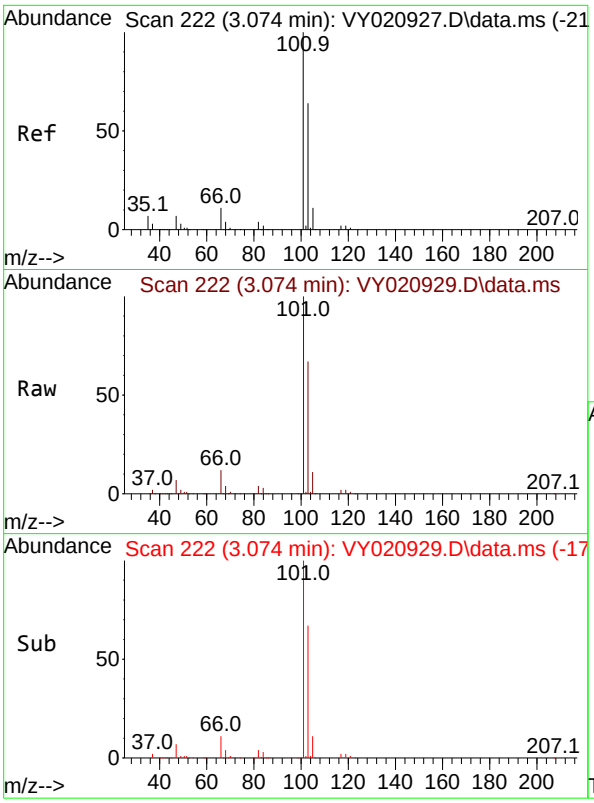




#6
Chloroethane
Concen: 150.437 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 64 Resp: 150359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.0 | 26.9 | 40.3 |






#7
Trichlorofluoromethane
Concen: 153.971 ug/l
RT: 3.074 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

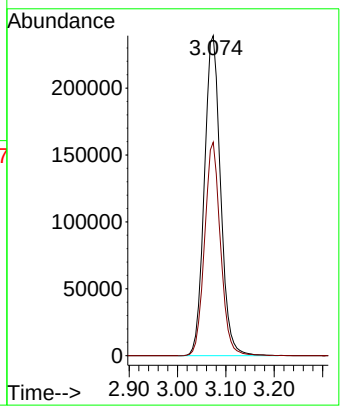
Tgt Ion:101 Resp: 55731

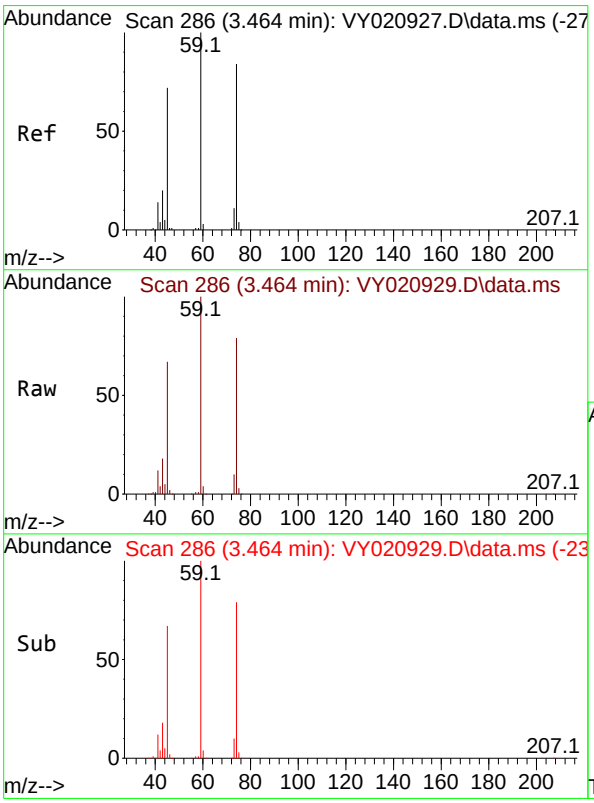
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.7 | 51.0 | 76.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

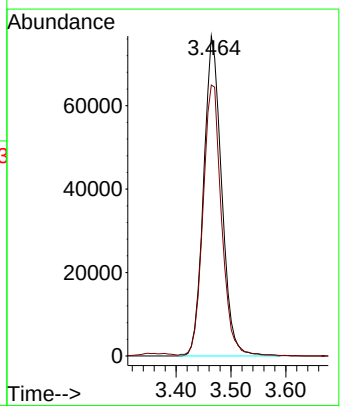


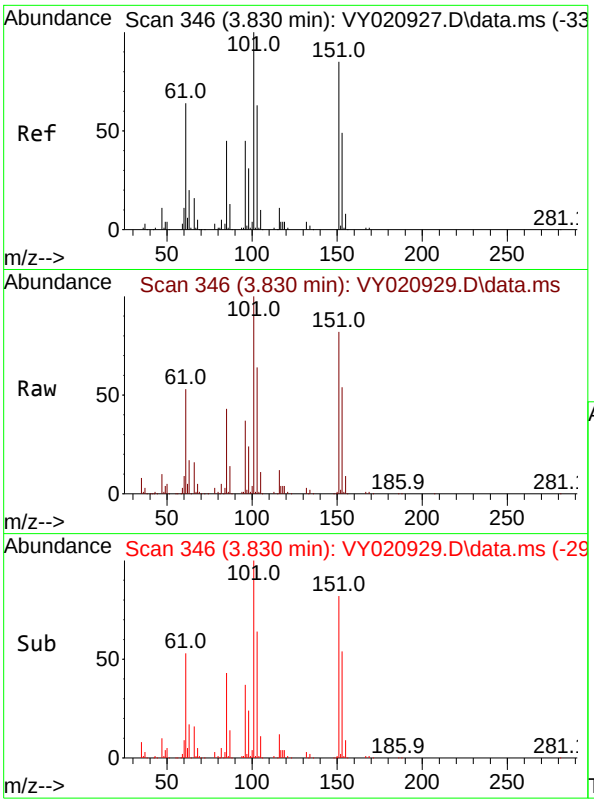




#8
Diethyl Ether
Concen: 156.880 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 74 Resp: 174523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 86.9 | 45.1 | 135.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 152.875 ug/l
RT: 3.830 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:101 Resp: 36511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.5 | 35.4 | 53.2 |
| 151 | 83.1 | 66.3 | 99.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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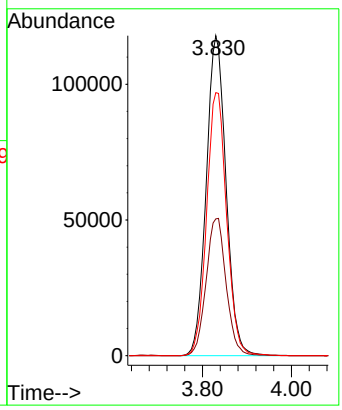
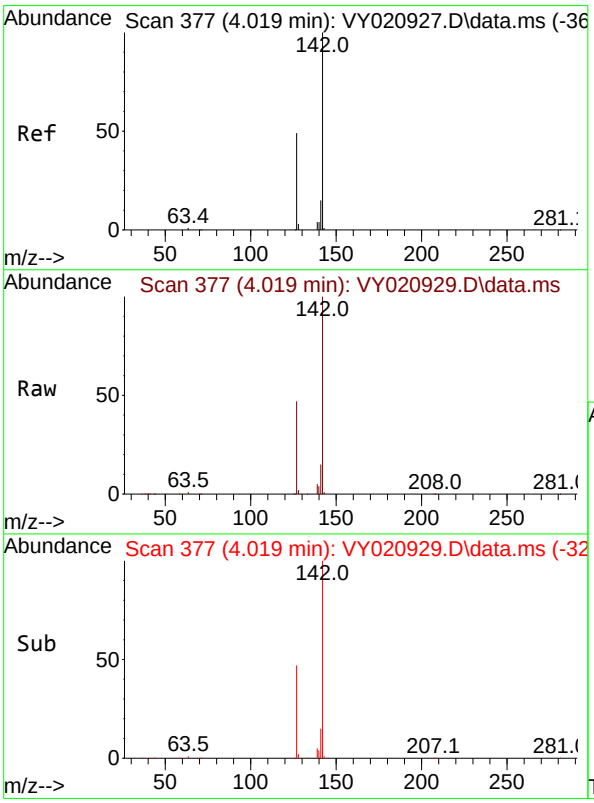
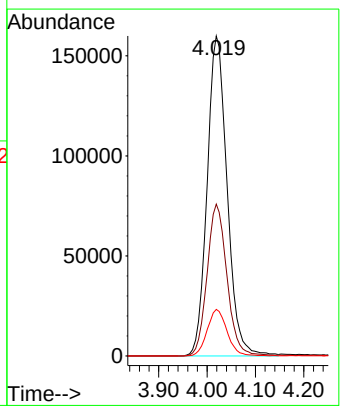


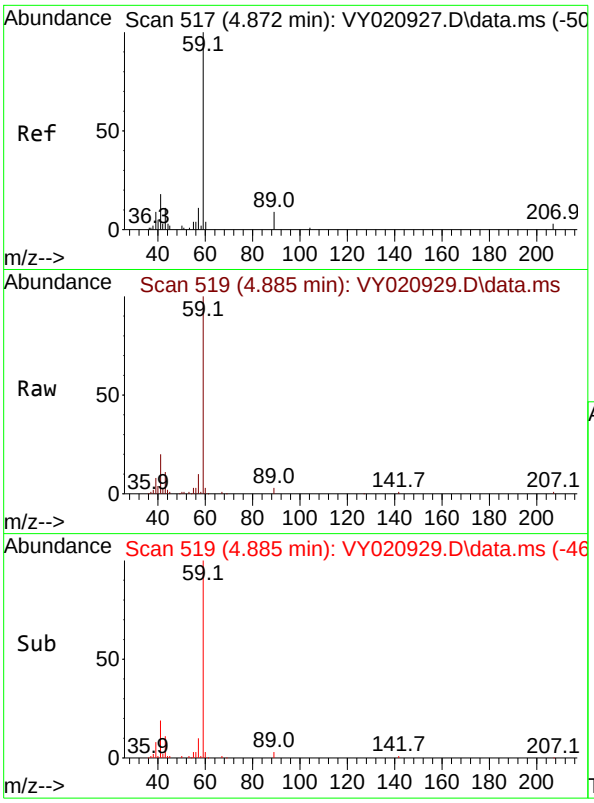




#10
Methyl Iodide
Concen: 161.464 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:142 Resp: 459572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 47.1 | 37.3 | 55.9 |
| 141 | 14.5 | 11.4 | 17.2 |






#11
Tert butyl alcohol
Concen: 576.707 ug/l
RT: 4.885 min Scan# 5
Delta R.T. 0.013 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 59 Resp: 9863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.4 | 7.7 | 11.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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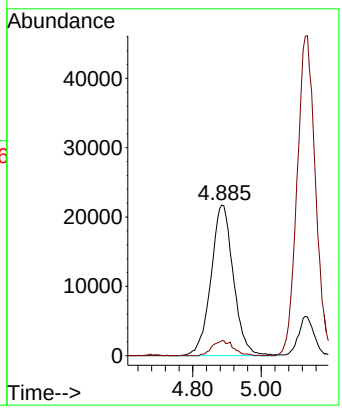
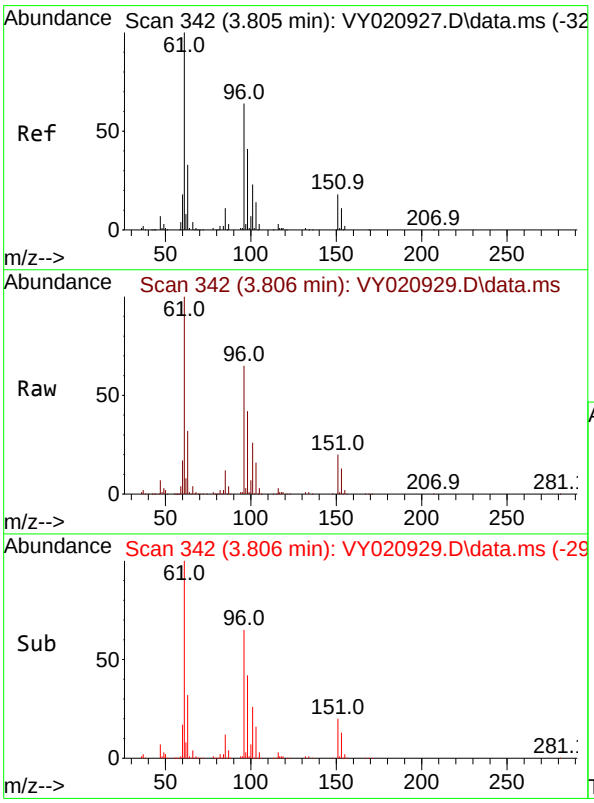
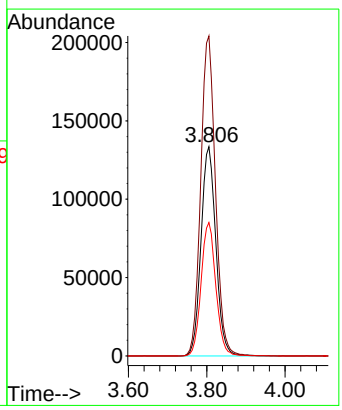


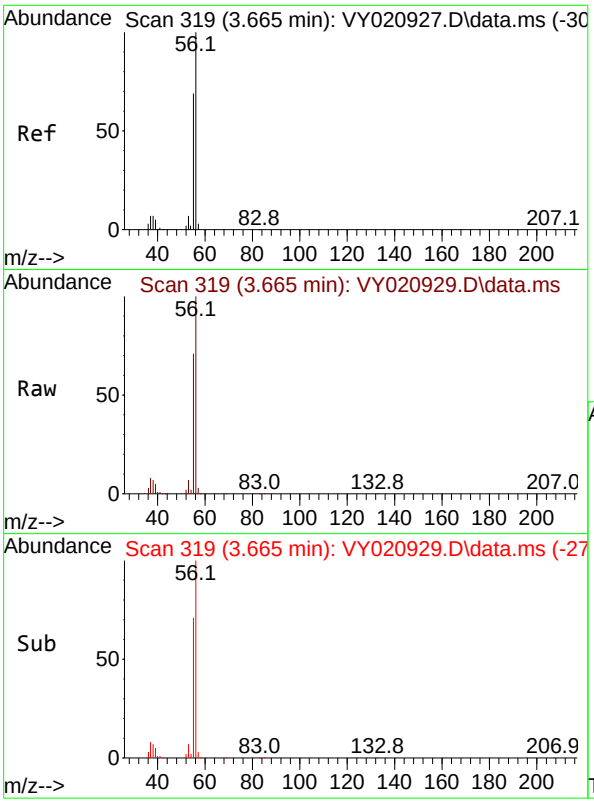




#12
1,1-Dichloroethene
Concen: 155.630 ug/l
RT: 3.806 min Scan# 342
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 96 Resp: 351022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 152.9 | 124.5 | 186.7 |
| 98 | 63.8 | 50.5 | 75.7 |






#13
Acrolein
Concen: 764.099 ug/l
RT: 3.665 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

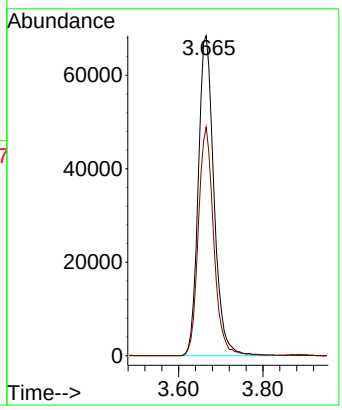
Tgt Ion: 56 Resp: 17715

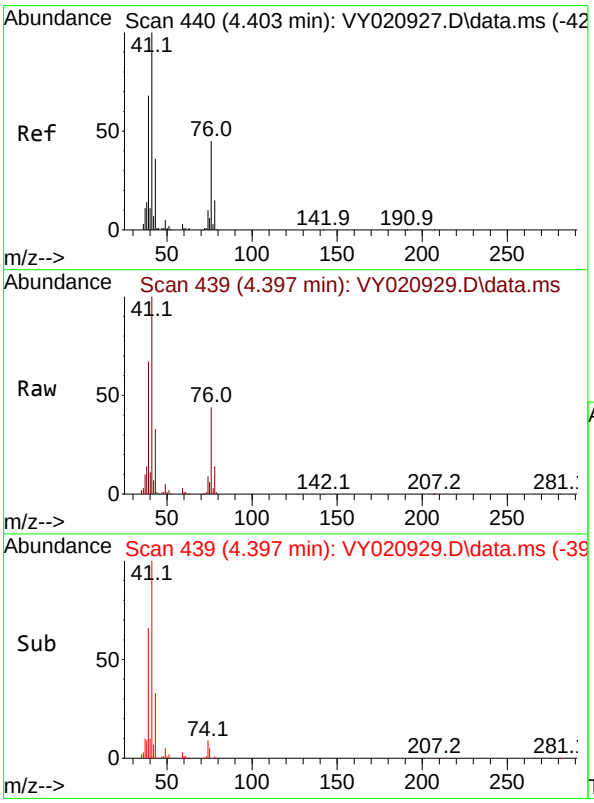
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.3 | 54.6 | 81.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

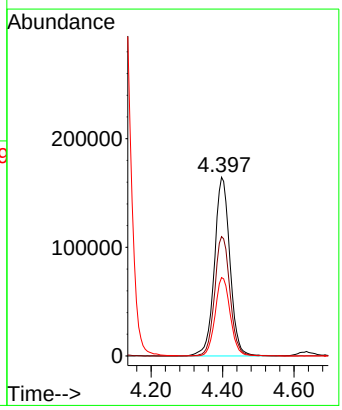


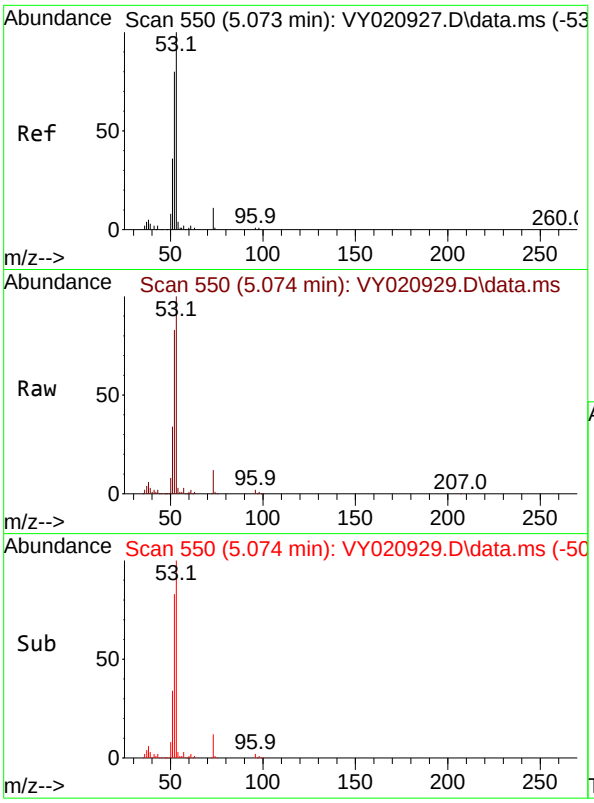




#14
Allyl chloride
Concen: 157.395 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 41 Resp: 495487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.1 | 53.8 | 80.6 |
| 76 | 42.4 | 34.2 | 51.4 |






#15
Acrylonitrile
Concen: 760.663 ug/l
RT: 5.074 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

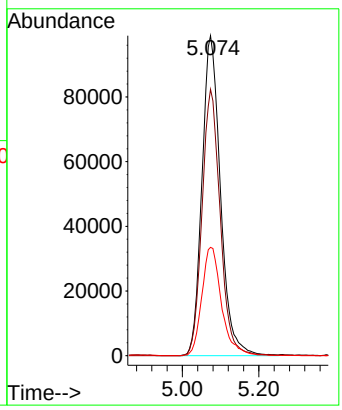
Tgt Ion: 53 Resp: 33263

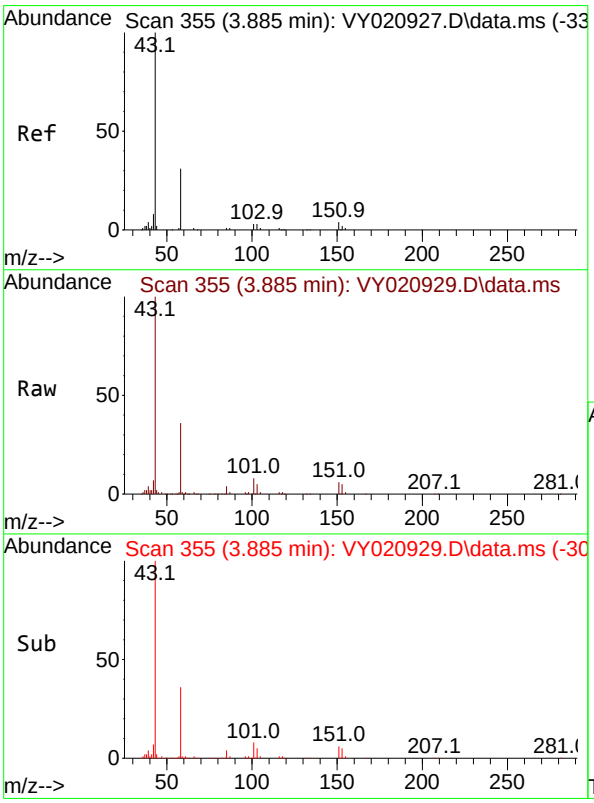
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.5 | 64.5 | 96.7 |
| 51 | 36.1 | 28.9 | 43.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

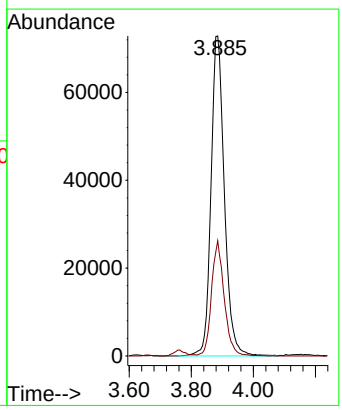


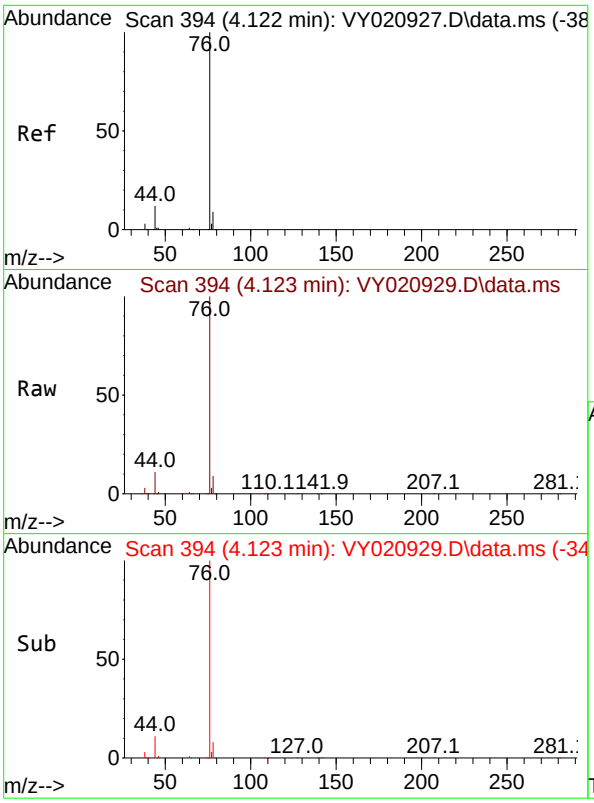




#16
Acetone
Concen: 727.039 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 43 Resp: 218230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.0 | 25.6 | 38.4 |






#17
Carbon Disulfide
Concen: 155.262 ug/l
RT: 4.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

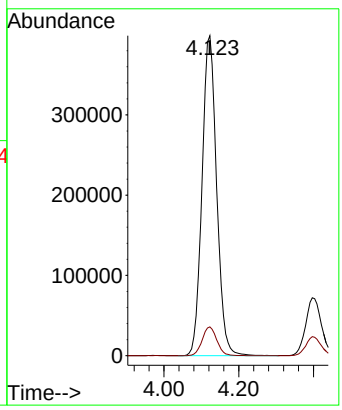
Tgt Ion: 76 Resp: 108148

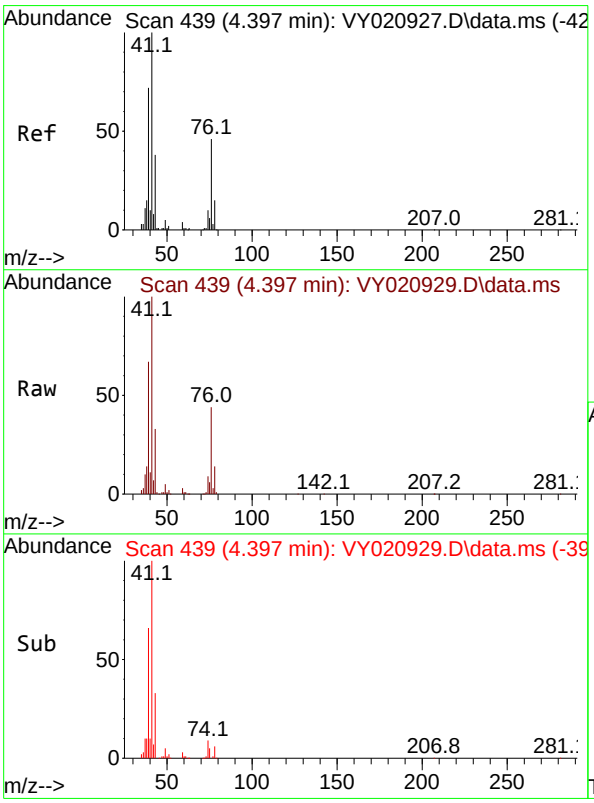
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.2 | 10.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

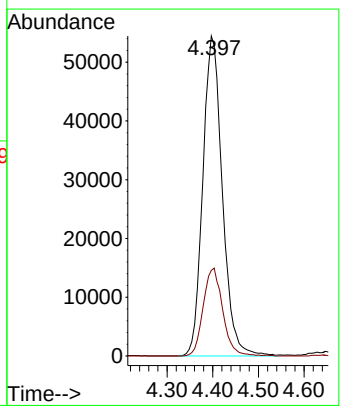


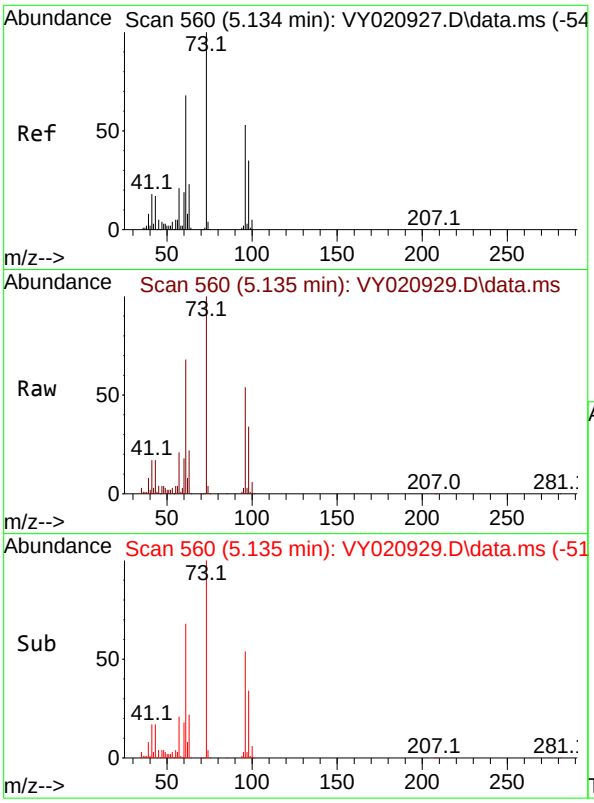




#18
Methyl Acetate
Concen: 149.161 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 43 Resp: 161739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.3 | 21.0 | 31.6 |






#19
Methyl tert-butyl Ether
Concen: 156.498 ug/l
RT: 5.135 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 73 Resp: 81756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.9 | 17.0 | 25.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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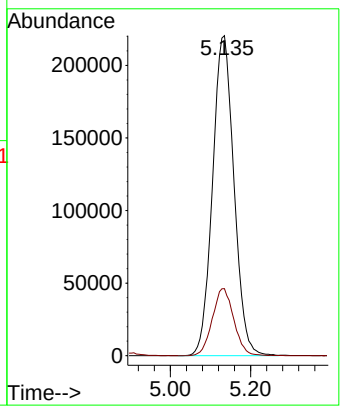
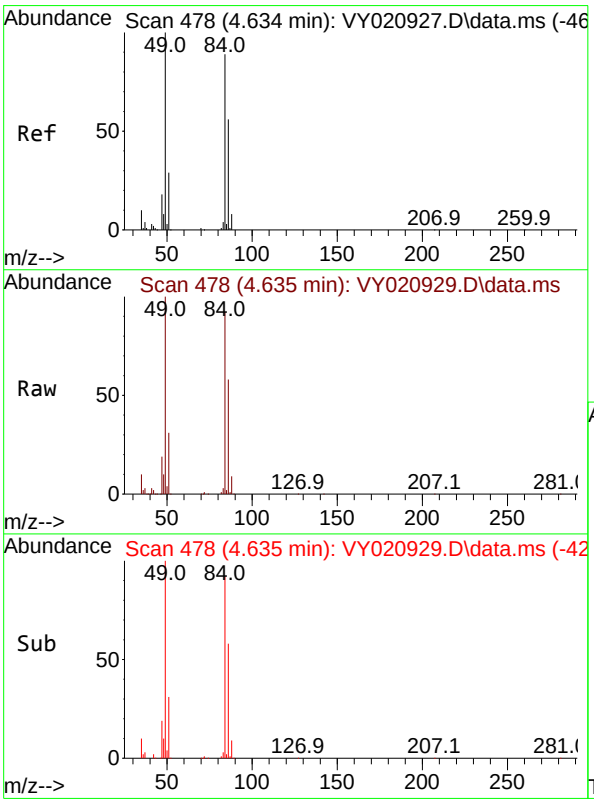
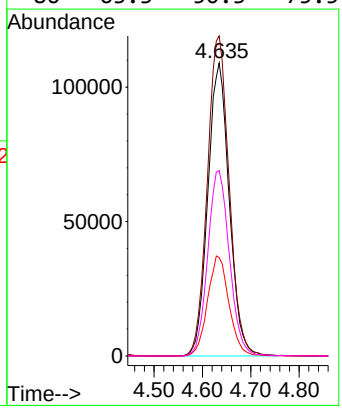


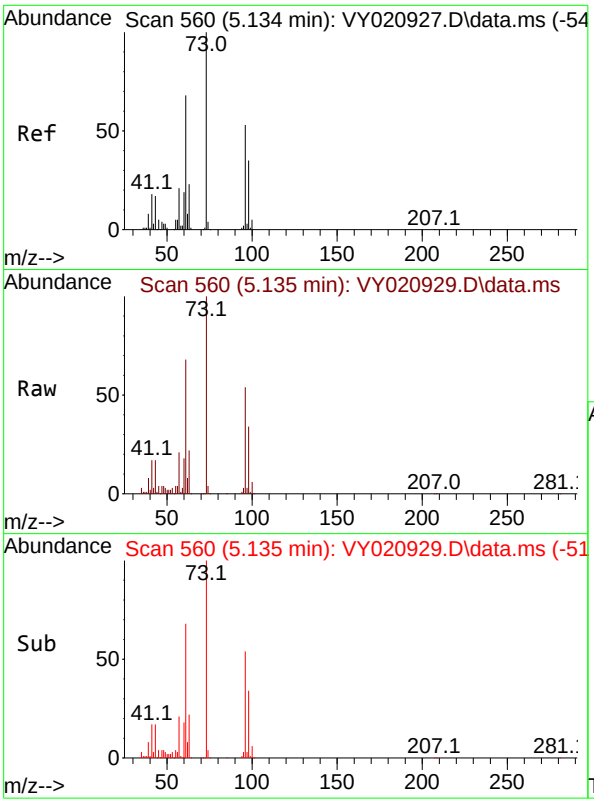




#20
Methylene Chloride
Concen: 150.345 ug/l
RT: 4.635 min Scan# 478
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 84 Resp: 335626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 109.3 | 90.3 | 135.5 |
| 51 | 33.6 | 26.6 | 39.8 |
| 86 | 63.3 | 50.3 | 75.5 |






#21
trans-1,2-Dichloroethene
Concen: 153.713 ug/l
RT: 5.135 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 96 Resp: 37380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 126.3 | 102.4 | 153.6 |
| 98 | 62.8 | 52.0 | 78.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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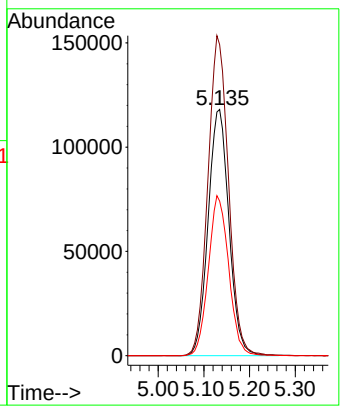
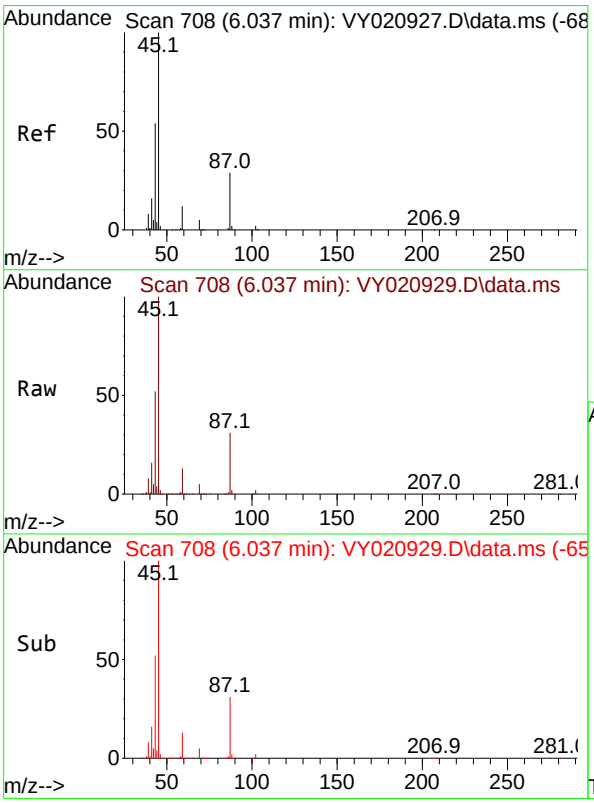
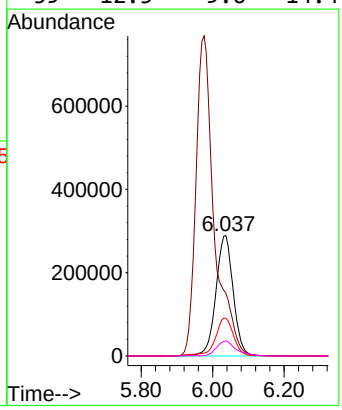


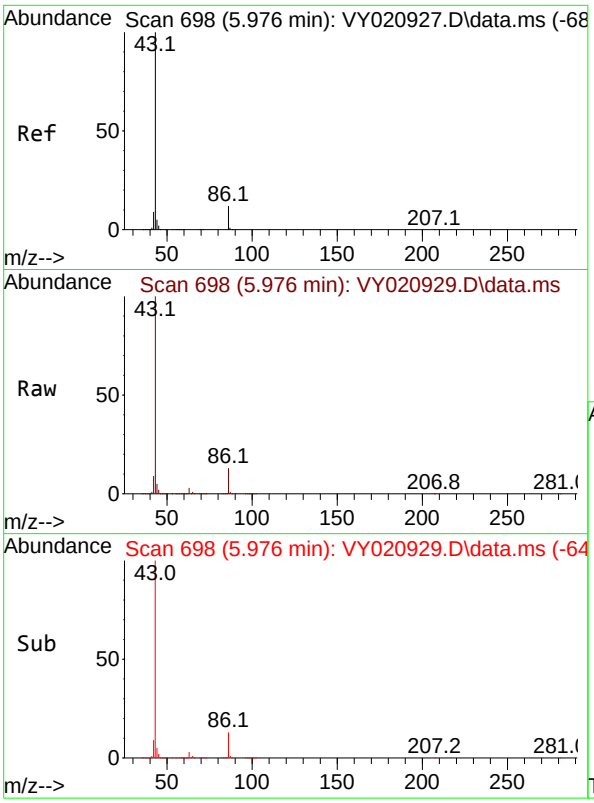




#22
Diisopropyl ether
Concen: 153.185 ug/l
RT: 6.037 min Scan# 708
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 45 Resp: 969992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 52.0 | 43.2 | 64.8 |
| 87 | 31.3 | 23.4 | 35.0 |
| 59 | 12.5 | 9.6 | 14.4 |






#23
Vinyl Acetate
Concen: 776.741 ug/l
RT: 5.976 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

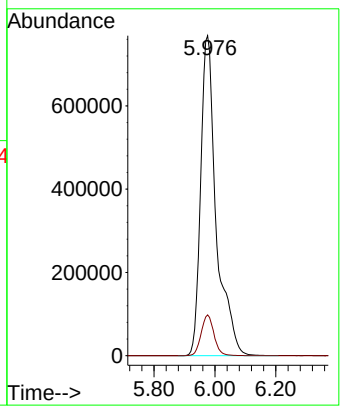
Tgt Ion: 43 Resp: 272210

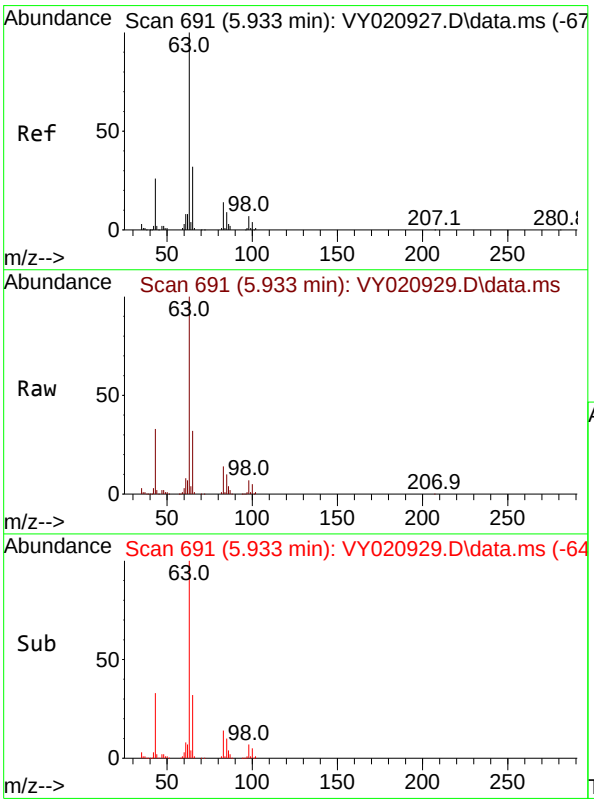
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.7 | 9.8 | 14.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

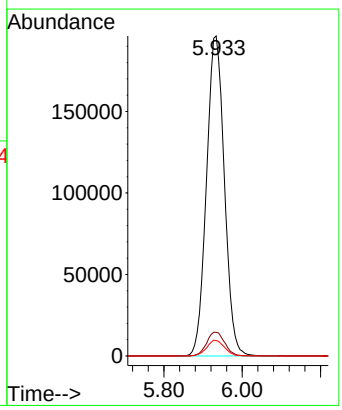


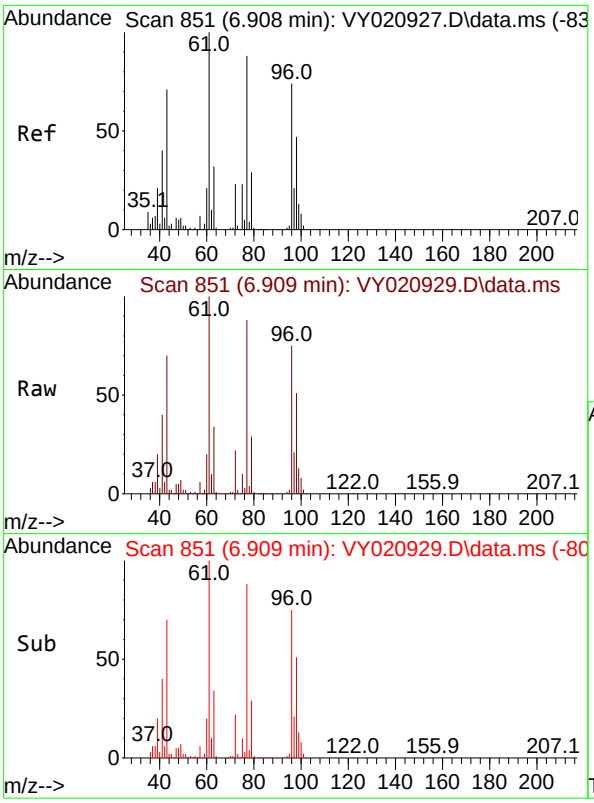




#24
1,1-Dichloroethane
Concen: 154.703 ug/l
RT: 5.933 min Scan# 691
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 63 Resp: 620975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.7 | 11.1 |
| 100 | 4.8 | 2.3 | 6.8 |






#25
2-Butanone
Concen: 749.216 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

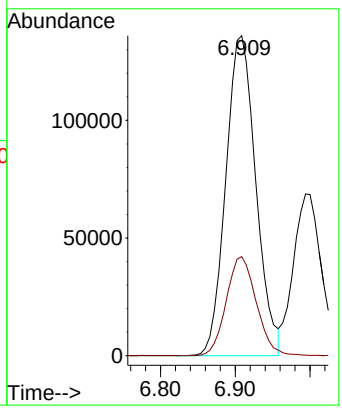
Tgt Ion: 43 Resp: 38094

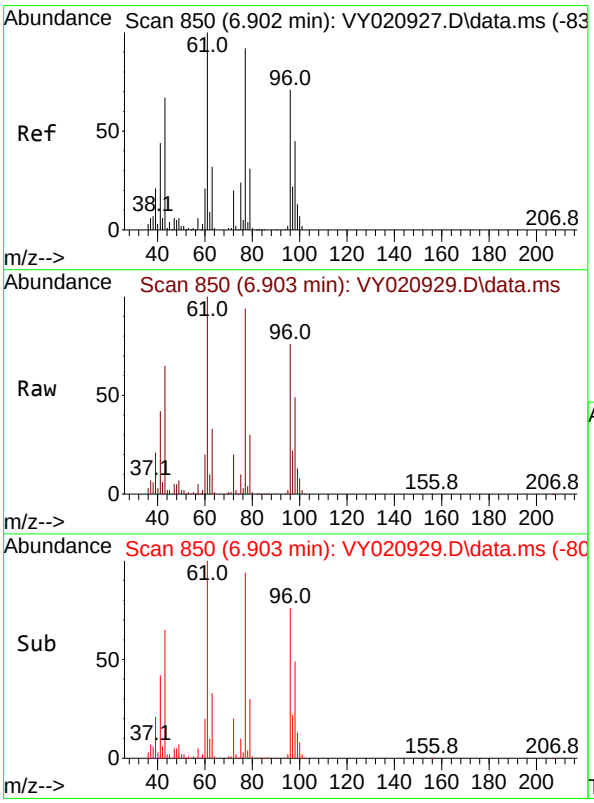
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 31.0 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

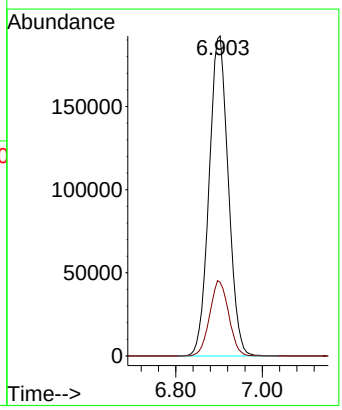


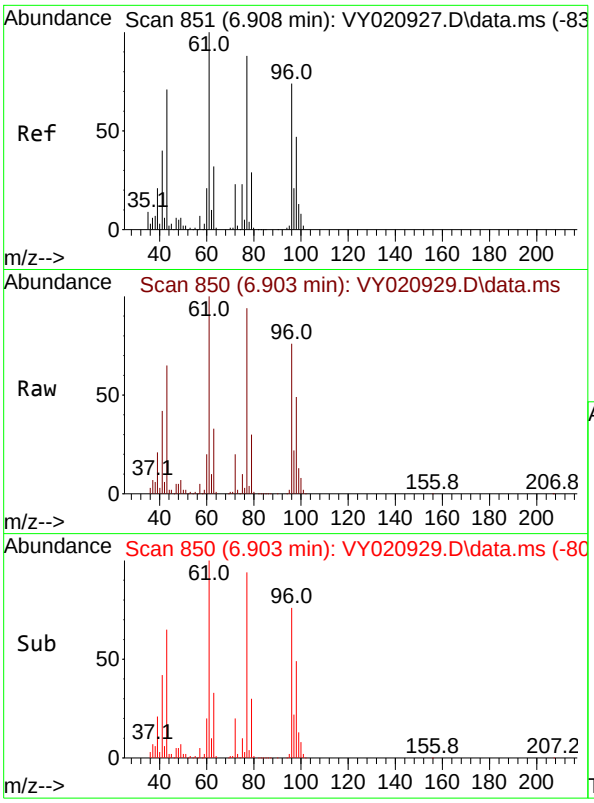




#26
2,2-Dichloropropane
Concen: 149.583 ug/l
RT: 6.903 min Scan# 850
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 77 Resp: 591403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.3 | 11.7 | 35.1 |






#27
cis-1,2-Dichloroethene
Concen: 154.834 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

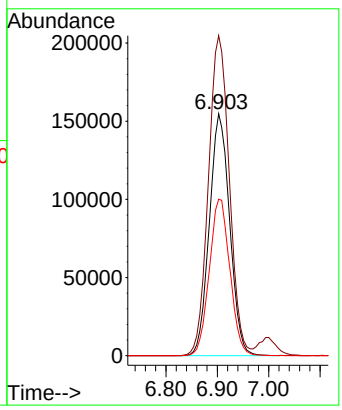
Tgt Ion: 96 Resp: 42494

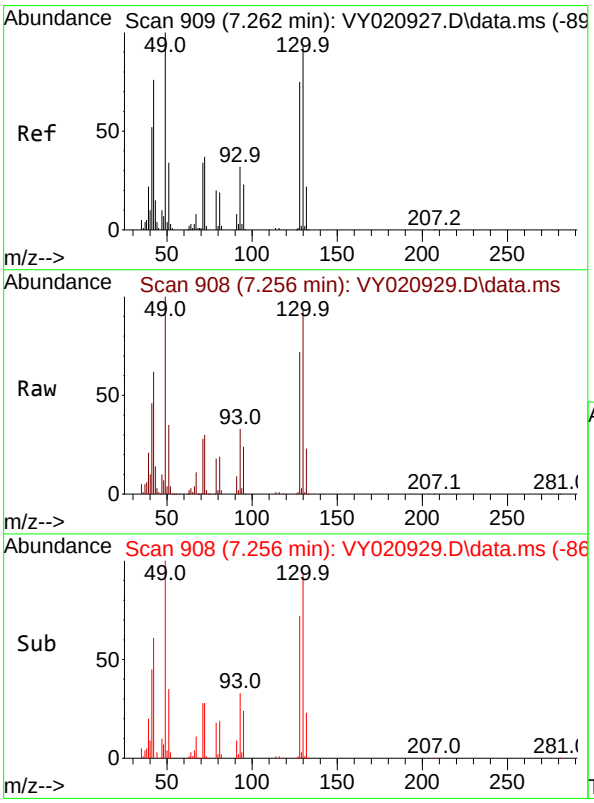
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.3 | 0.0 | 275.2 |
| 98 | 65.6 | 0.0 | 129.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

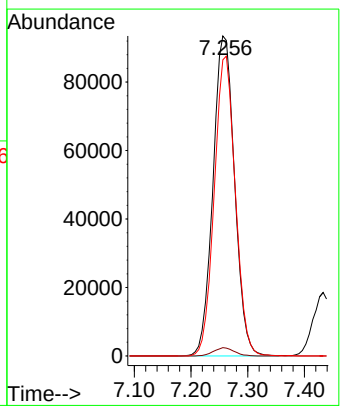


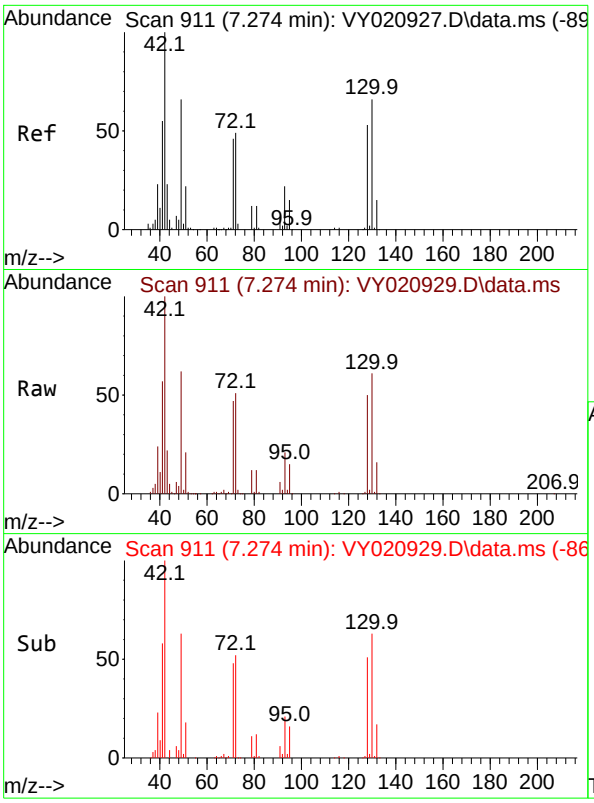




#28
Bromochloromethane
Concen: 153.128 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 49 Resp: 247375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.5 | 0.0 | 4.6 |
| 130 | 91.2 | 72.6 | 109.0 |






#29
Tetrahydrofuran
Concen: 762.199 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

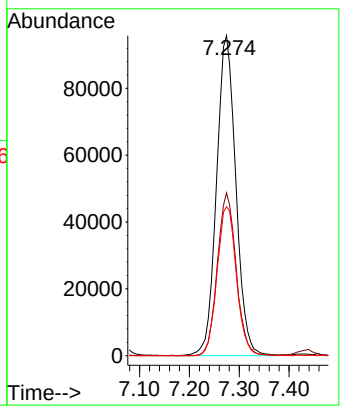
Tgt Ion: 42 Resp: 25828

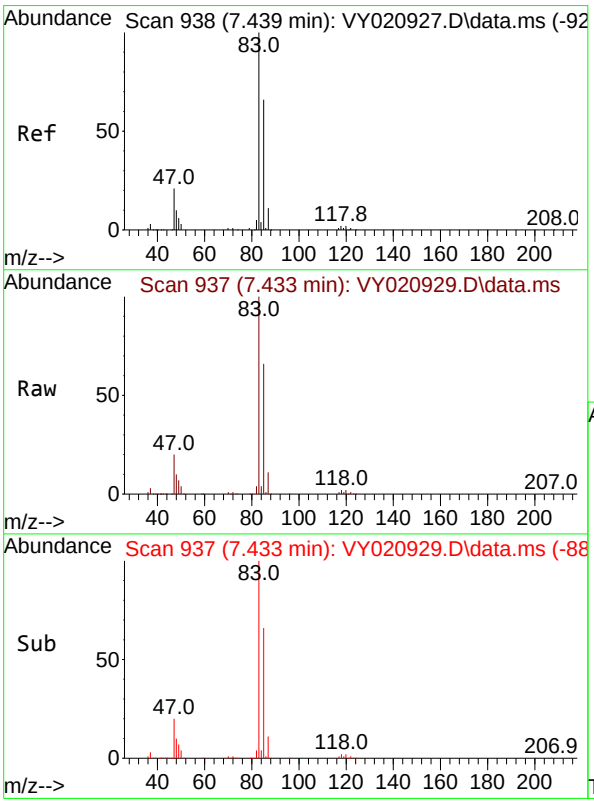
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 49.5 | 38.8 | 58.2 |
| 71 | 46.6 | 36.4 | 54.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

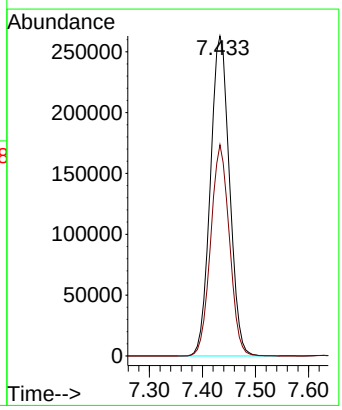


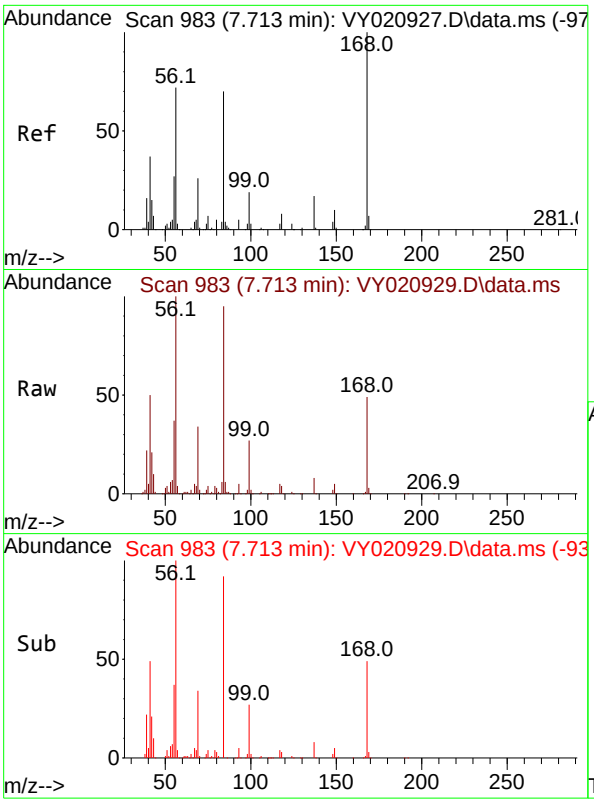




#30
Chloroform
Concen: 155.015 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 83 Resp: 658549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.0 | 53.0 | 79.4 |






#31
Cyclohexane
Concen: 143.926 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

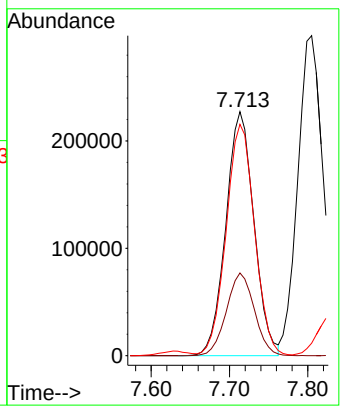
Tgt Ion: 56 Resp: 56780

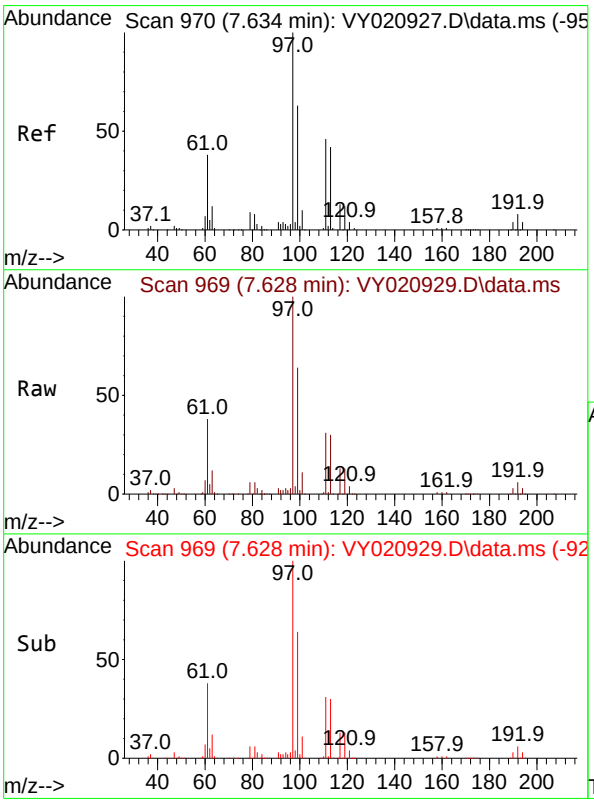
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 33.9 | 28.7 | 43.1 |
| 84 | 93.0 | 77.4 | 116.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

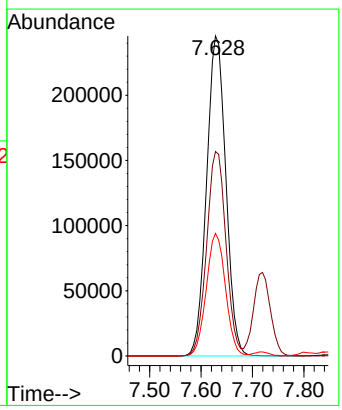


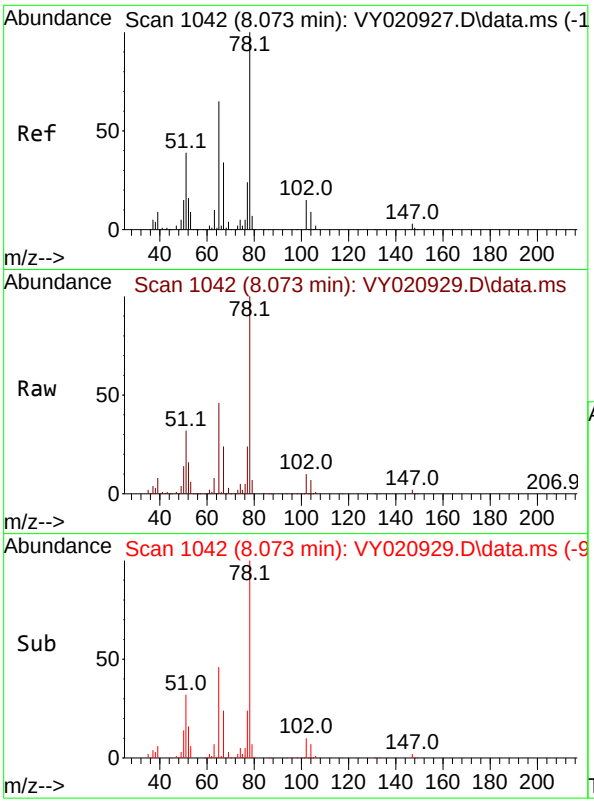




#32
1,1,1-Trichloroethane
Concen: 154.945 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 97 Resp: 638490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.6 | 51.7 | 77.5 |
| 61 | 38.3 | 30.8 | 46.2 |






#33
1,2-Dichloroethane-d4
Concen: 145.323 ug/l
RT: 8.073 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

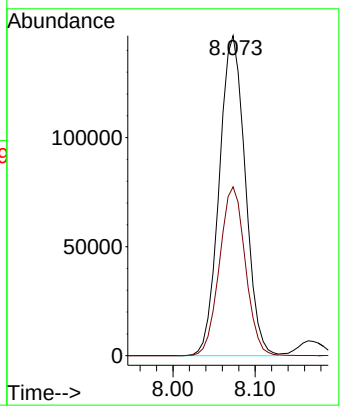
Tgt Ion: 65 Resp: 32195(

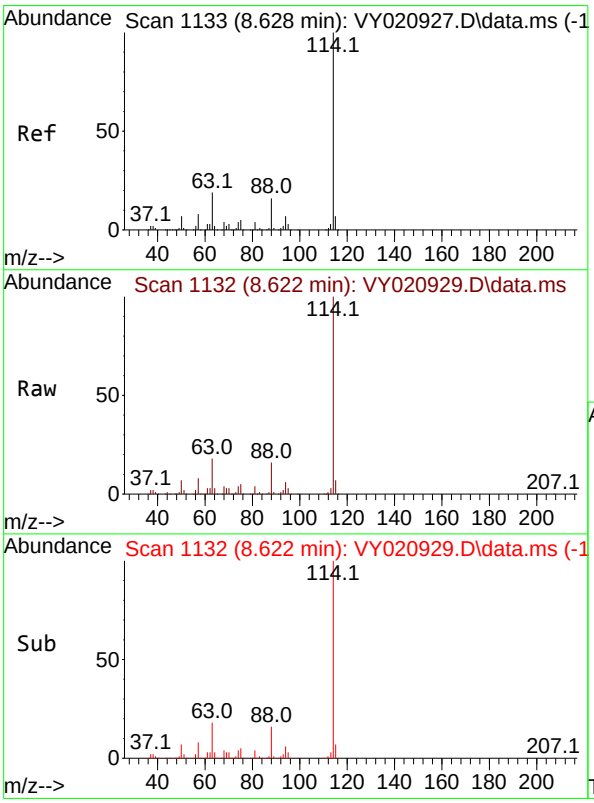
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.6 | 0.0 | 105.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

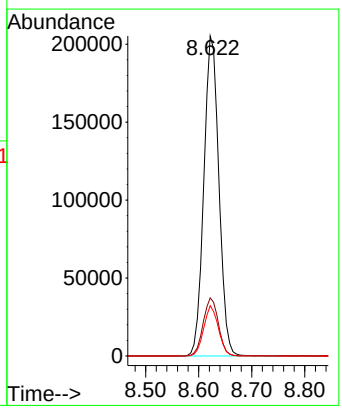


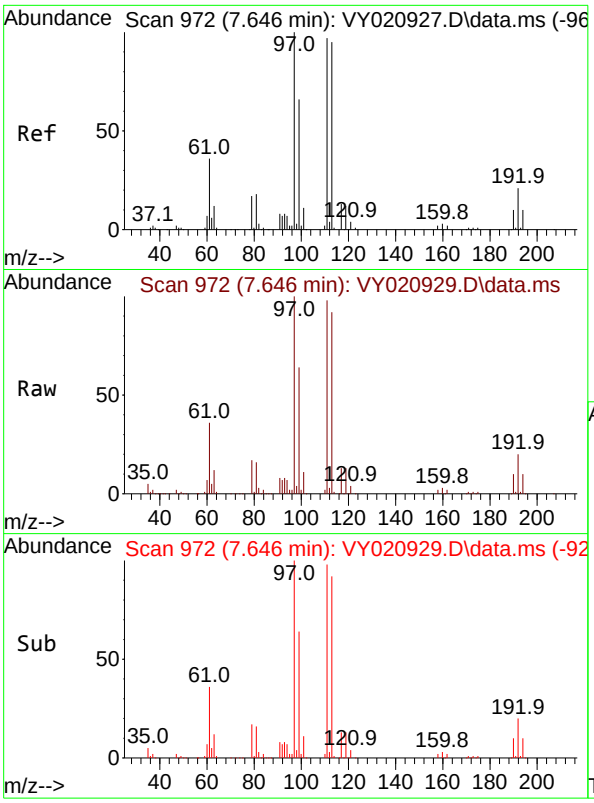




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:114 Resp: 404615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.2 | 0.0 | 38.4 |
| 88 | 15.7 | 0.0 | 31.6 |






#35
Dibromofluoromethane
Concen: 148.471 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

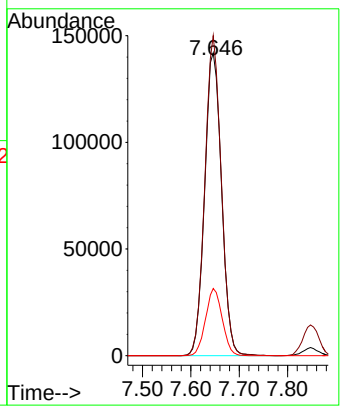
Tgt Ion:113 Resp: 34487

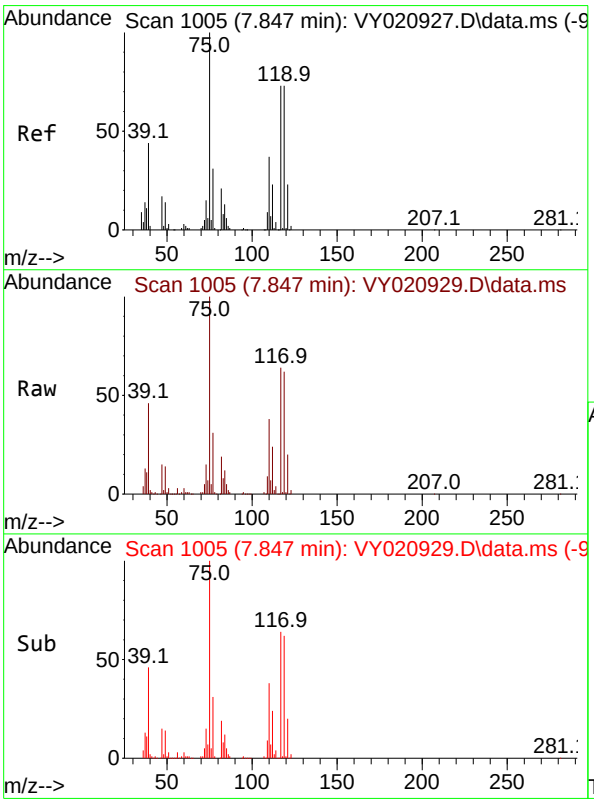
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.5 | 82.3 | 123.5 |
| 192 | 21.8 | 17.4 | 26.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

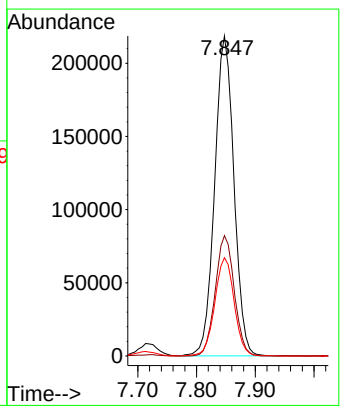


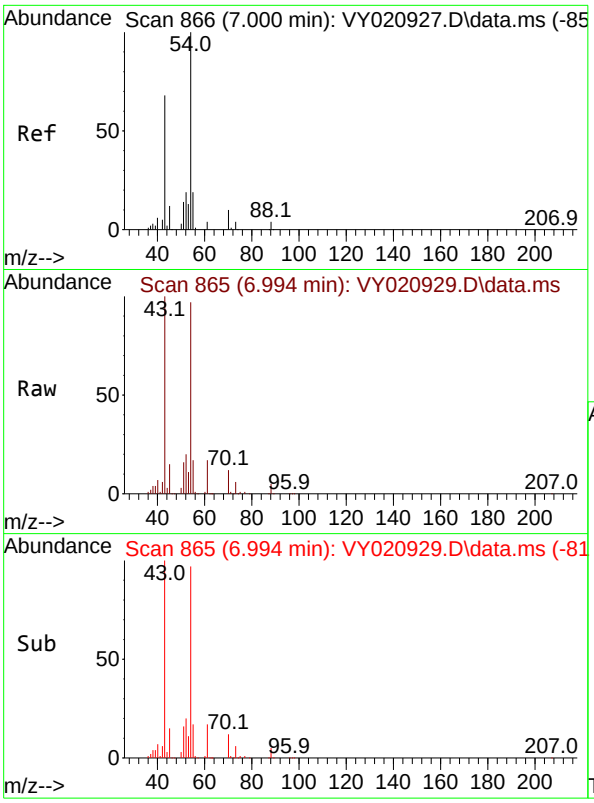




#36
1,1-Dichloropropene
Concen: 153.542 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 75 Resp: 497951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.2 | 18.5 | 55.5 |
| 77 | 31.0 | 25.0 | 37.4 |






#37
Ethyl Acetate
Concen: 147.131 ug/l
RT: 6.994 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 43 Resp: 18512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.8 | 12.1 | 18.1 |
| 70 | 12.1 | 9.5 | 14.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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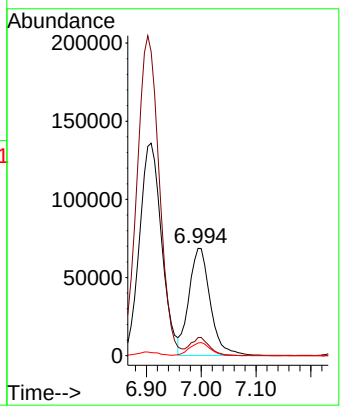
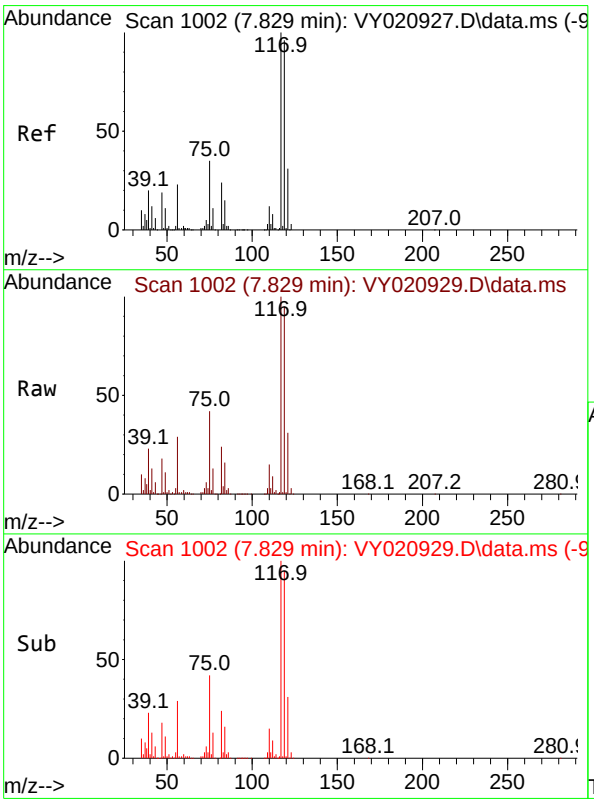
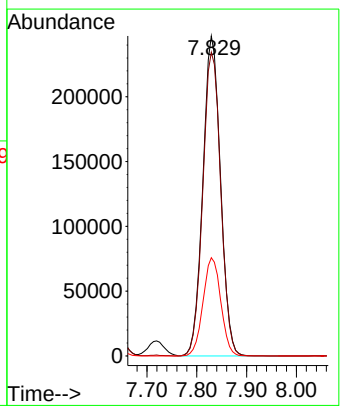


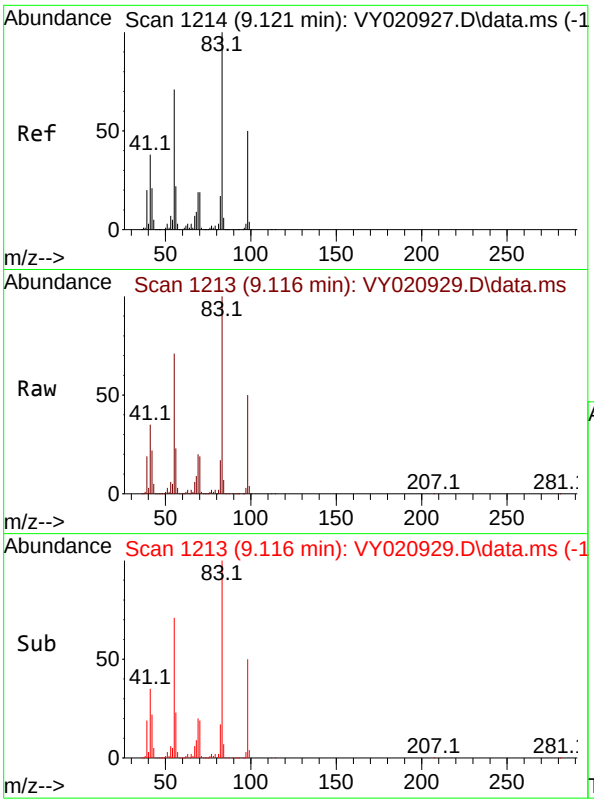




#38
Carbon Tetrachloride
Concen: 155.205 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:117 Resp: 607007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.9 | 76.5 | 114.7 |
| 121 | 30.7 | 25.0 | 37.4 |






#39
Methylcyclohexane
Concen: 158.206 ug/l
RT: 9.116 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 83 Resp: 69460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 71.2 | 57.0 | 85.4 |
| 98 | 49.6 | 40.1 | 60.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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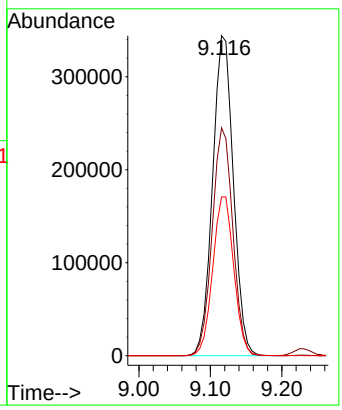
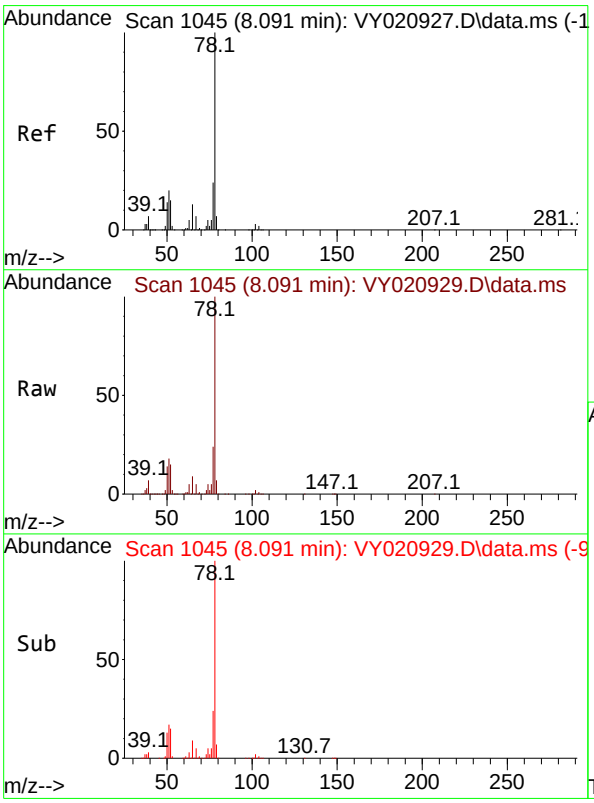
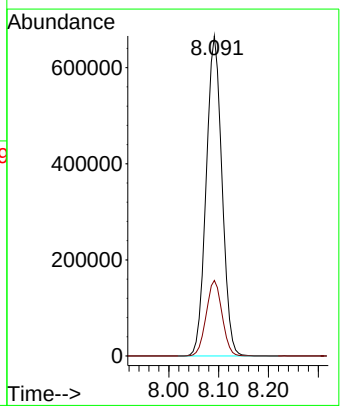


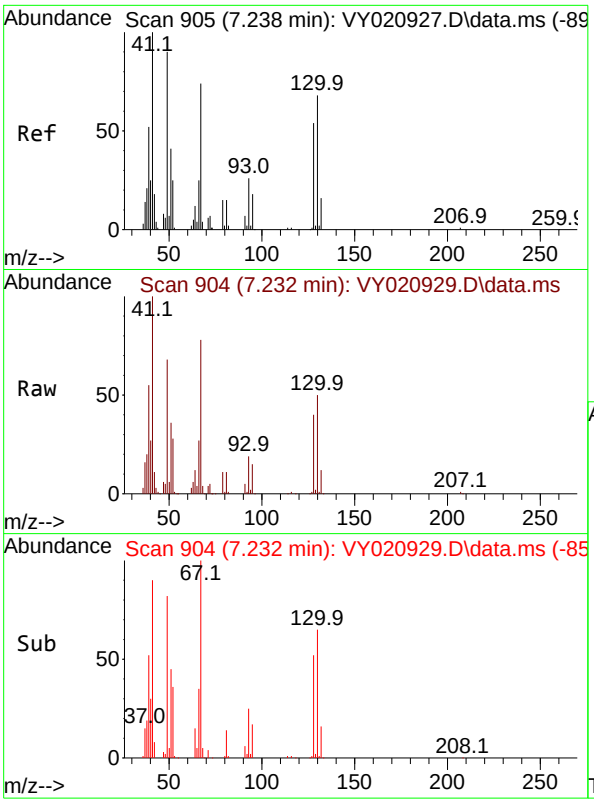




#40
Benzene
Concen: 153.678 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 78 Resp: 1462146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.6 | 19.0 | 28.6 |

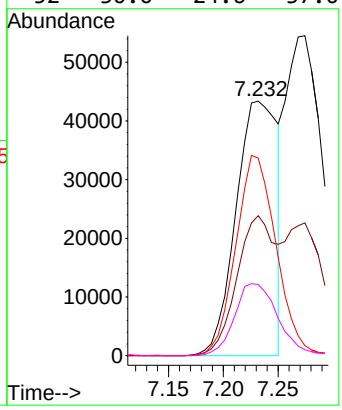





#41
Methacrylonitrile
Concen: 171.106 ug/l
RT: 7.232 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 41 Resp: 11373

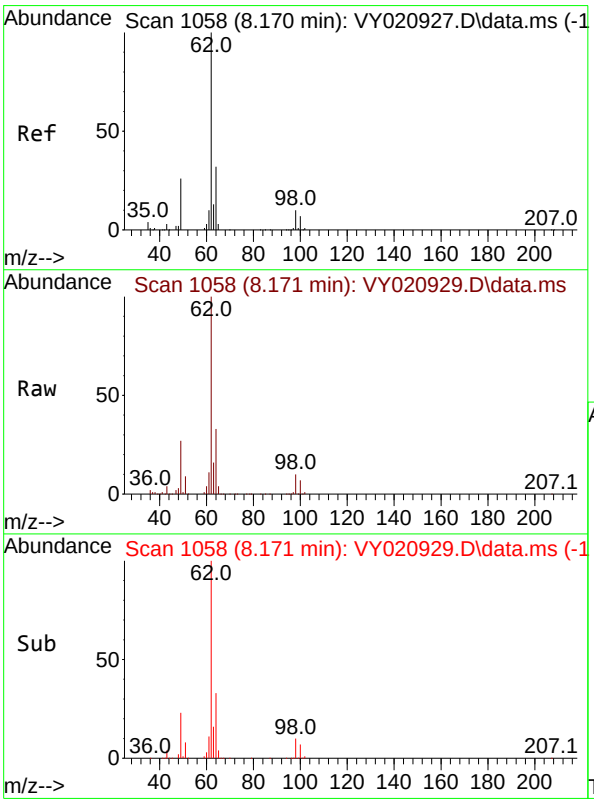
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 51.3 | 46.4 | 69.6 |
| 67 | 77.2 | 66.7 | 100.1 |
| 52 | 30.0 | 24.6 | 37.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

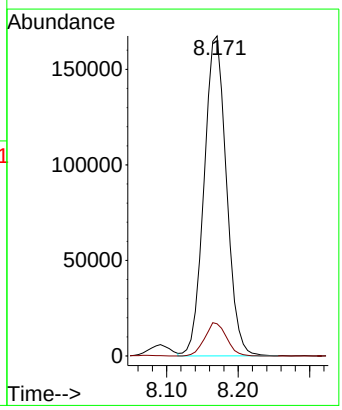
Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

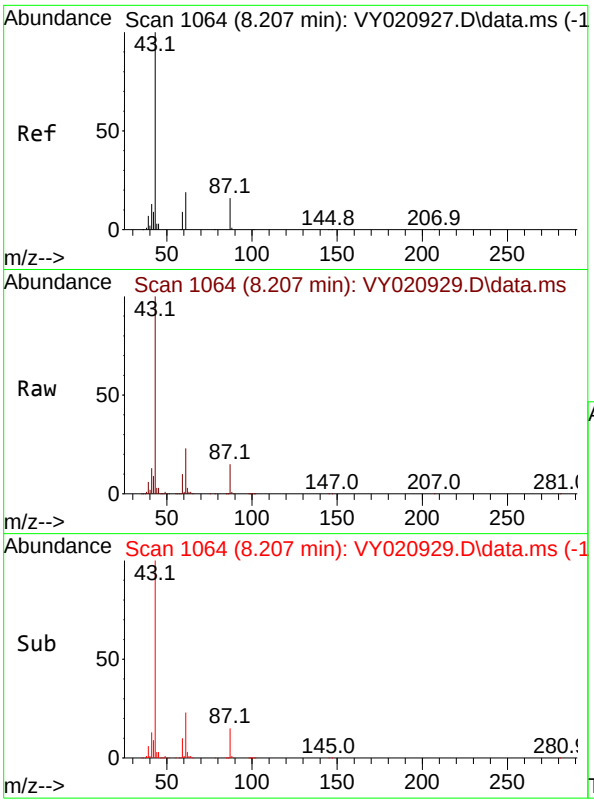



#42
1,2-Dichloroethane
Concen: 153.667 ug/l
RT: 8.171 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 62 Resp: 363795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.2 | 0.0 | 19.8 |






#43
Isopropyl Acetate
Concen: 161.137 ug/l
RT: 8.207 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

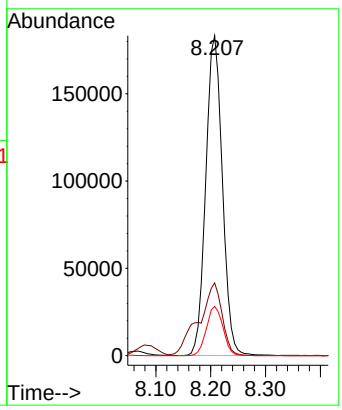
Tgt Ion: 43 Resp: 38447

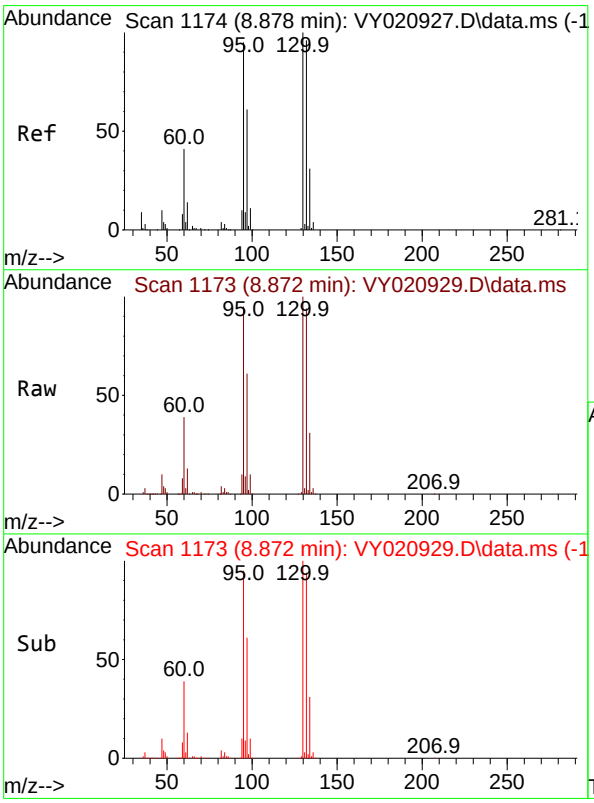
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 32.2 | 26.0 | 39.0 |
| 87 | 15.5 | 12.4 | 18.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

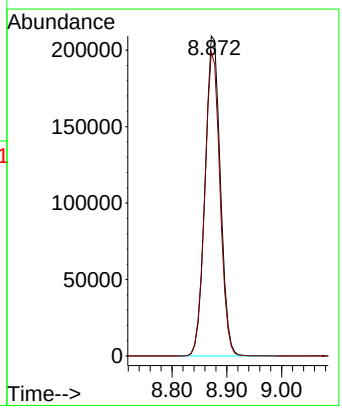


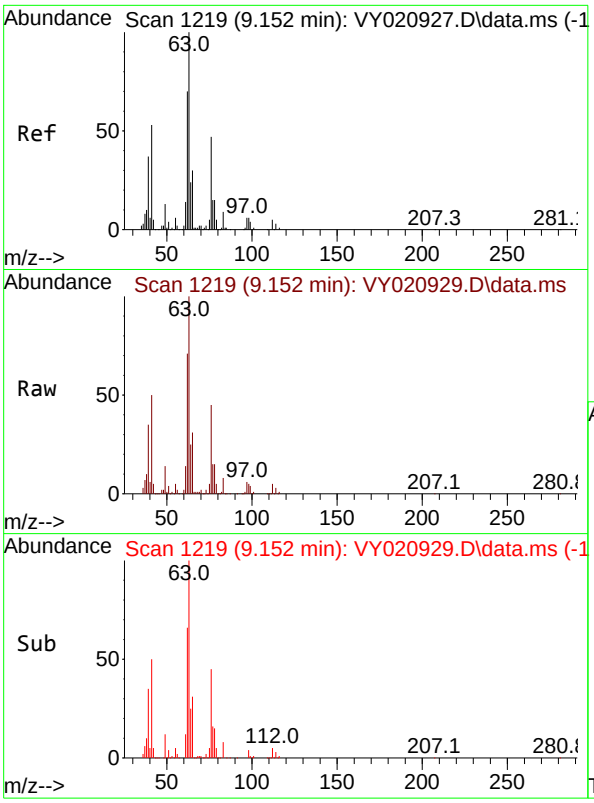




#44
Trichloroethene
Concen: 156.082 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:130 Resp: 403442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 94.9 | 0.0 | 189.4 |






#45
1,2-Dichloropropane
Concen: 156.221 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

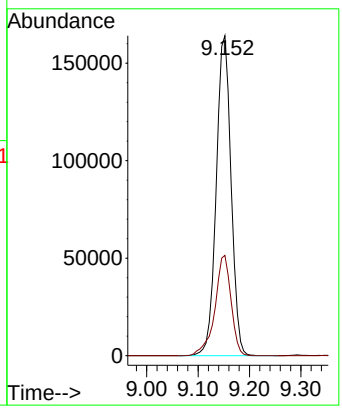
Tgt Ion: 63 Resp: 32809

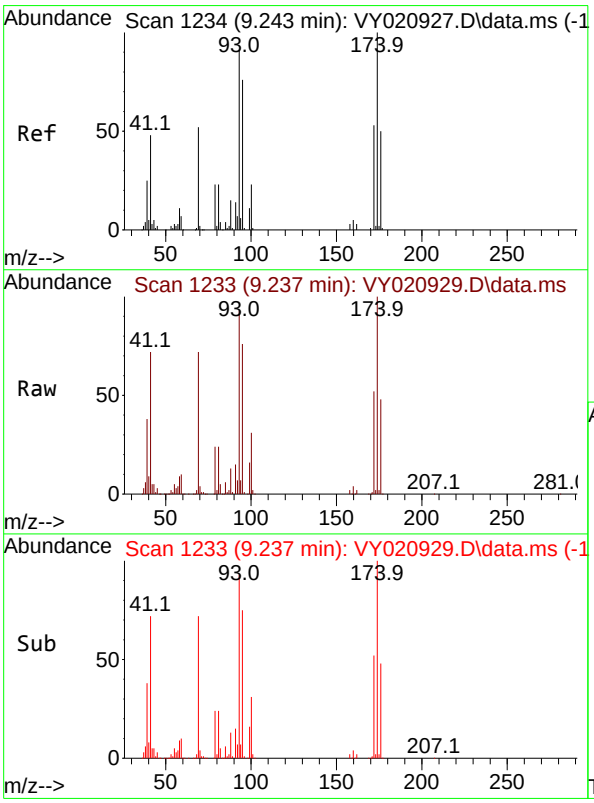
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.3 | 23.9 | 35.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

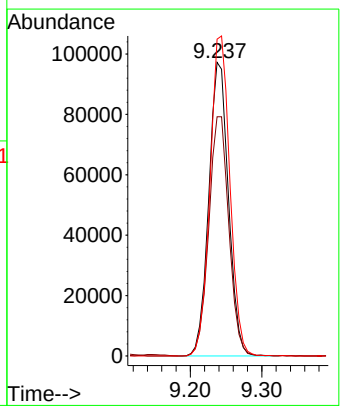


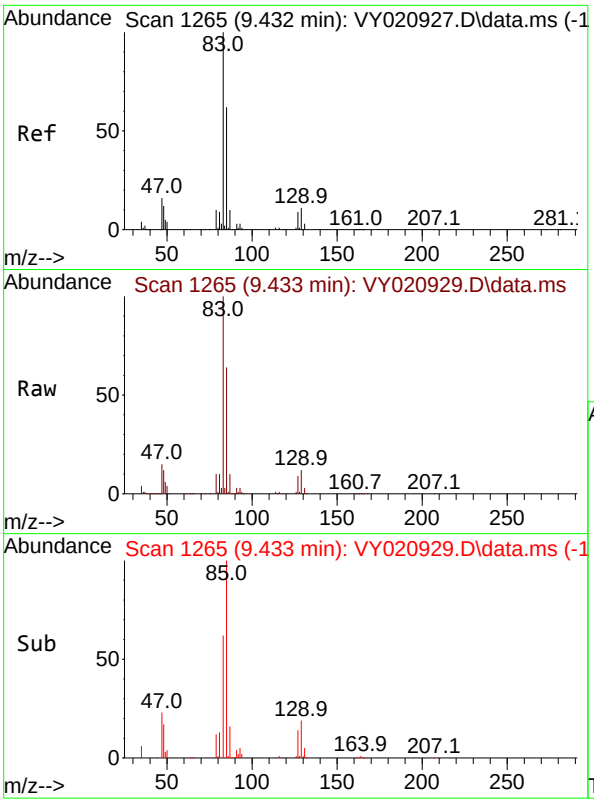




#46
Dibromomethane
Concen: 155.229 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 93 Resp: 185339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.2 | 66.2 | 99.2 |
| 174 | 110.3 | 87.0 | 130.4 |






#47
Bromodichloromethane
Concen: 157.187 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

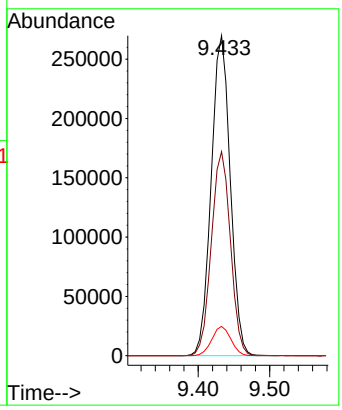
Tgt Ion: 83 Resp: 49936

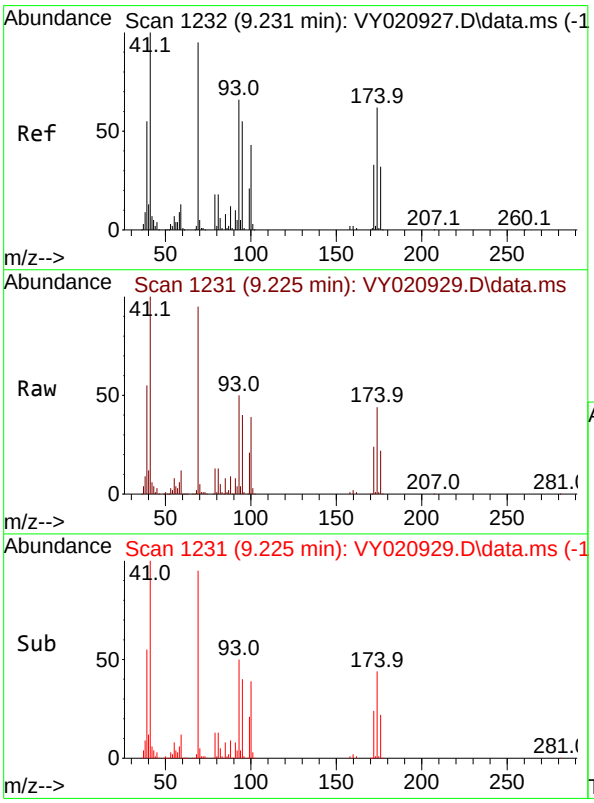
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.8 | 49.3 | 73.9 |
| 127 | 9.2 | 7.4 | 11.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

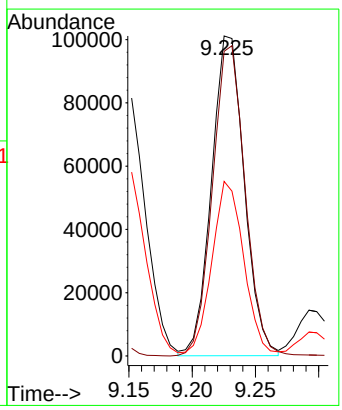


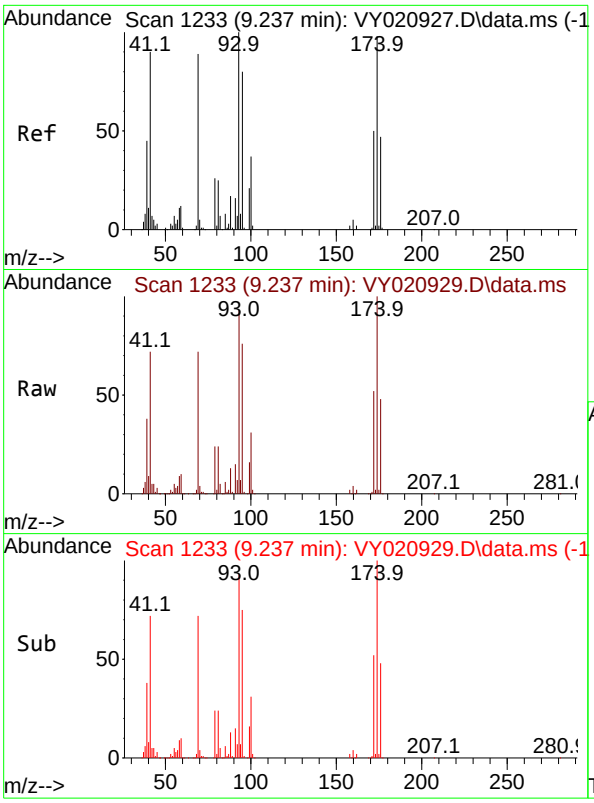




#48
Methyl methacrylate
Concen: 161.667 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 41 Resp: 181962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 97.2 | 77.0 | 115.4 |
| 39 | 51.5 | 41.1 | 61.7 |






#49
1,4-Dioxane
Concen: 3086.764 ug/l
RT: 9.237 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

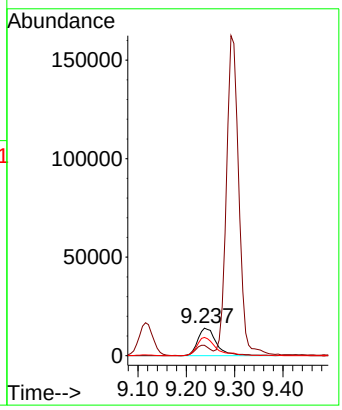
Tgt Ion: 88 Resp: 3794

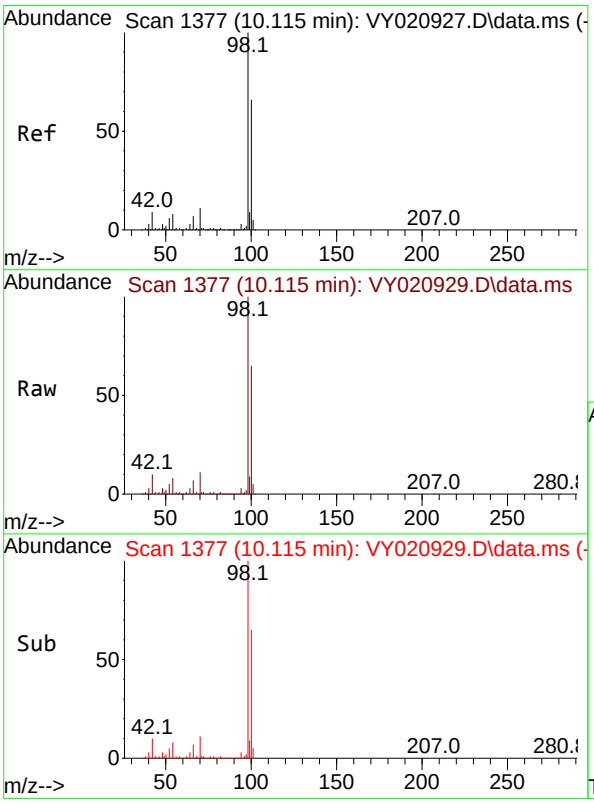
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.2 | 23.1 | 34.7 |
| 58 | 67.5 | 49.0 | 73.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

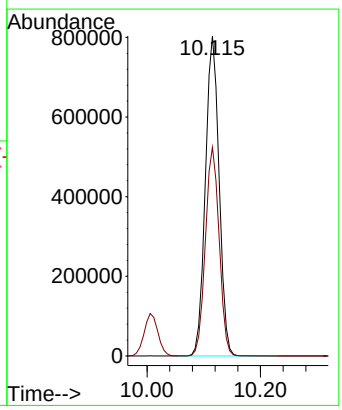


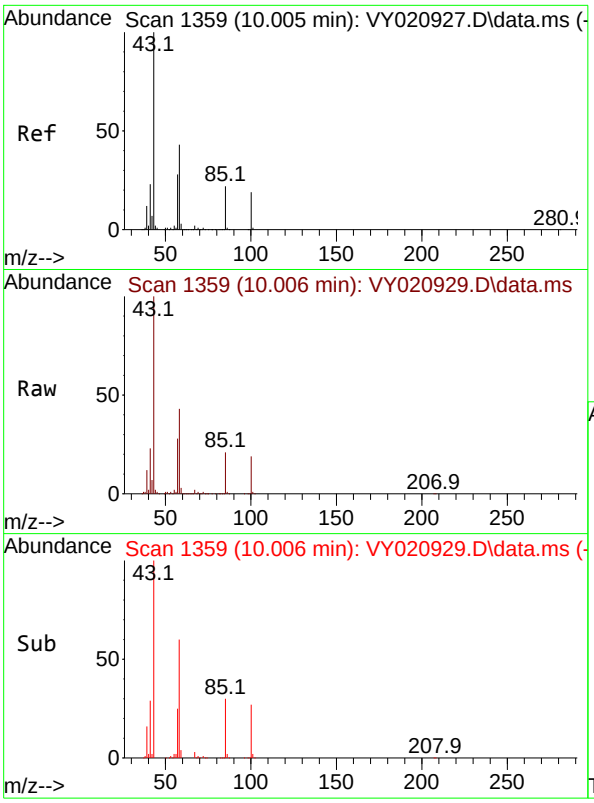




#50
Toluene-d8
Concen: 149.405 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 98 Resp: 1346111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 52.3 | 78.5 |






#51
4-Methyl-2-Pentanone
Concen: 780.092 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

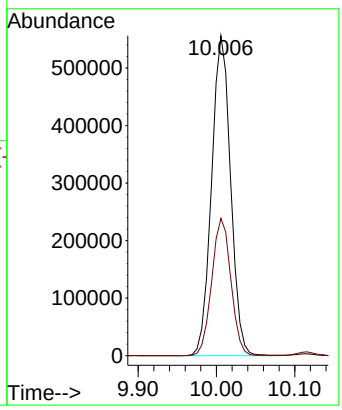
Tgt Ion: 43 Resp: 93851

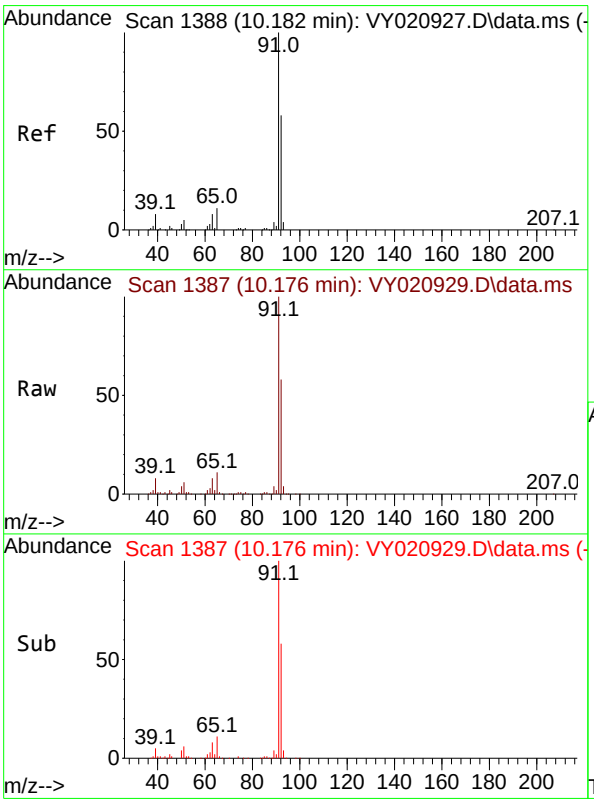
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.2 | 33.7 | 50.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

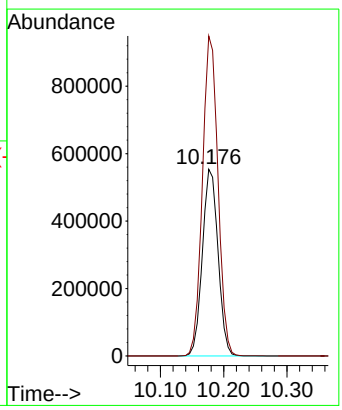


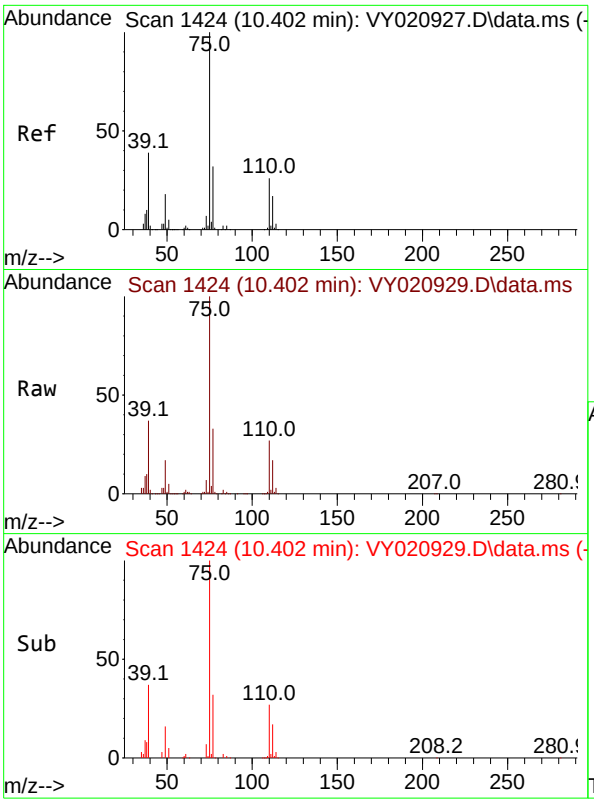




#52
Toluene
Concen: 155.721 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 92 Resp: 952872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.4 | 137.3 | 205.9 |






#53
t-1,3-Dichloropropene
Concen: 161.215 ug/l
RT: 10.402 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

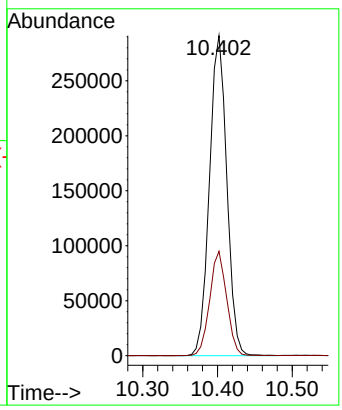
Tgt Ion: 75 Resp: 46959

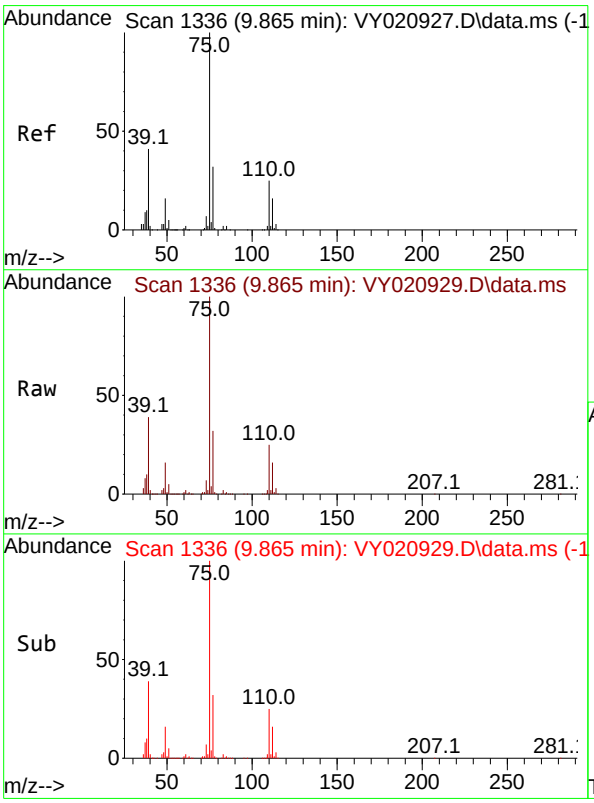
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.6 | 25.4 | 38.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

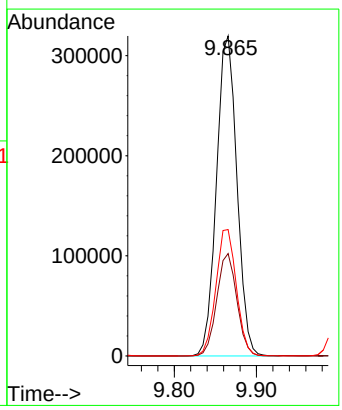


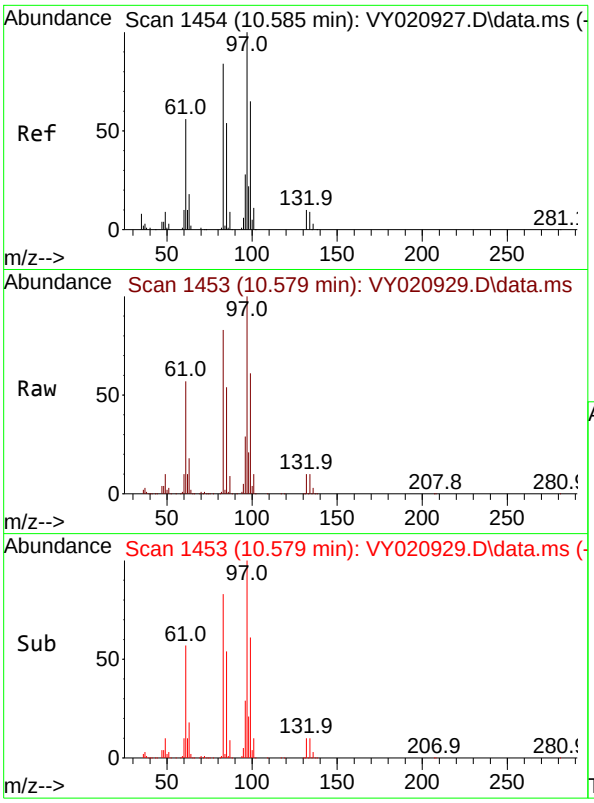




#54
cis-1,3-Dichloropropene
Concen: 158.921 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 75 Resp: 552753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.0 | 25.7 | 38.5 |
| 39 | 39.5 | 32.8 | 49.2 |






#55
1,1,2-Trichloroethane
Concen: 154.005 ug/l
RT: 10.579 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 97 Resp: 24855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 83.2 | 67.0 | 100.6 |
| 85 | 54.1 | 43.1 | 64.7 |
| 99 | 61.1 | 52.3 | 78.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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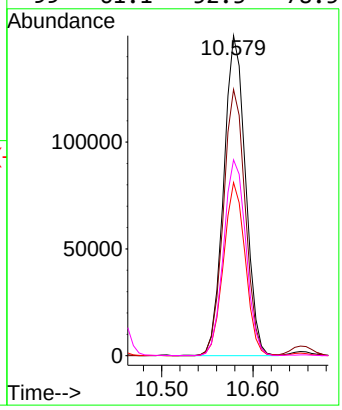
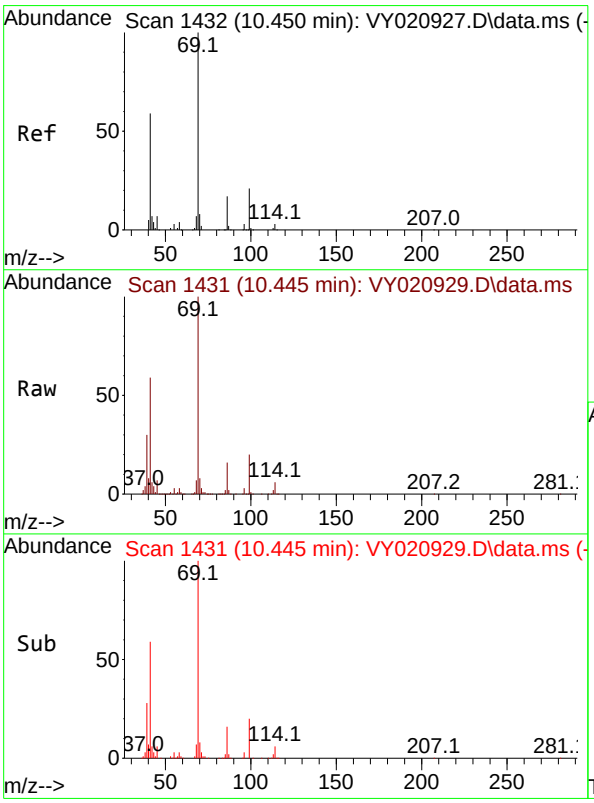
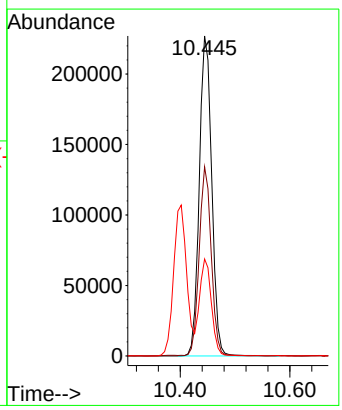


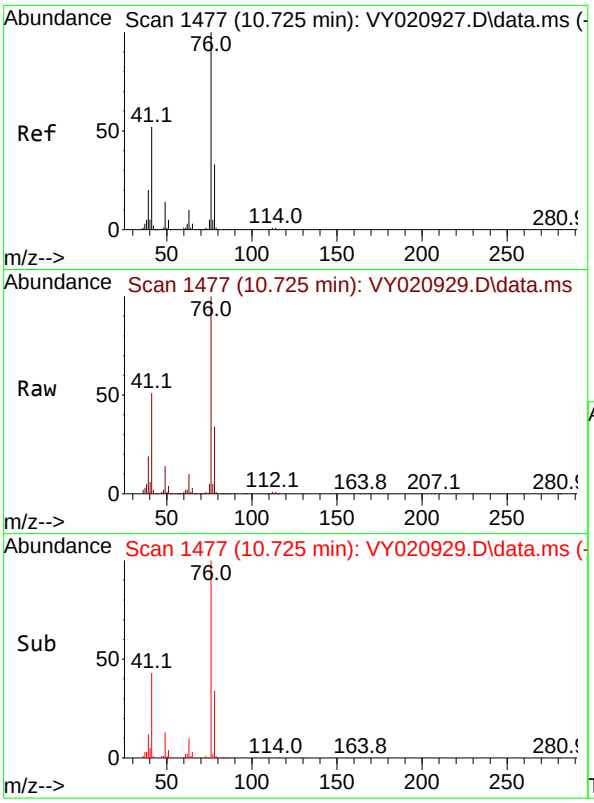




#56
Ethyl methacrylate
Concen: 168.715 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 69 Resp: 356853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 57.3 | 46.6 | 70.0 |
| 39 | 28.7 | 23.9 | 35.9 |






#57
1,3-Dichloropropane
Concen: 154.155 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

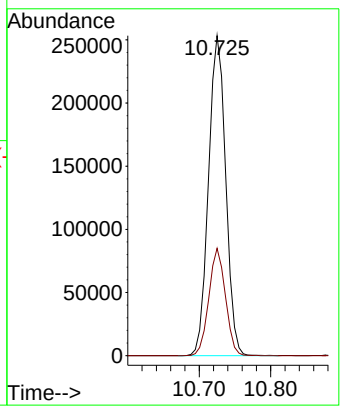
Tgt Ion: 76 Resp: 42265

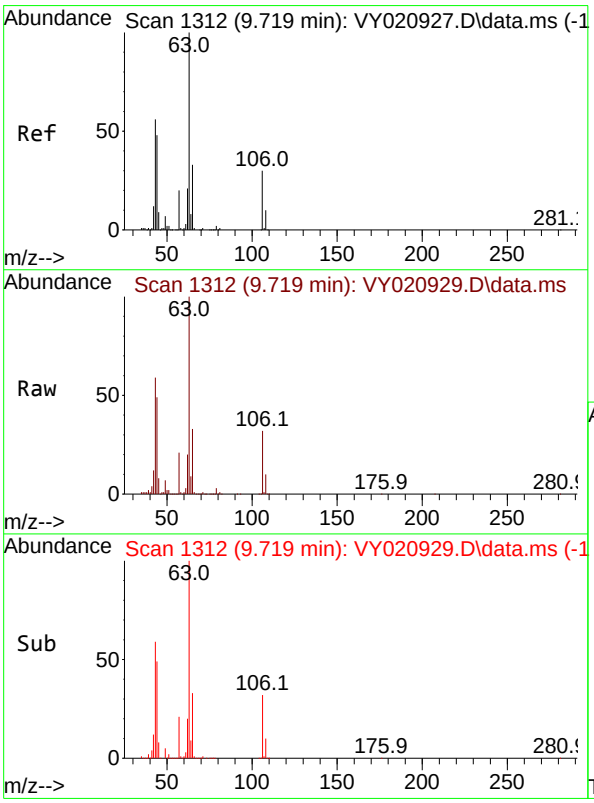
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.4 | 26.2 | 39.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

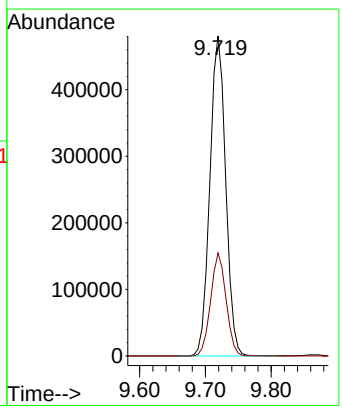


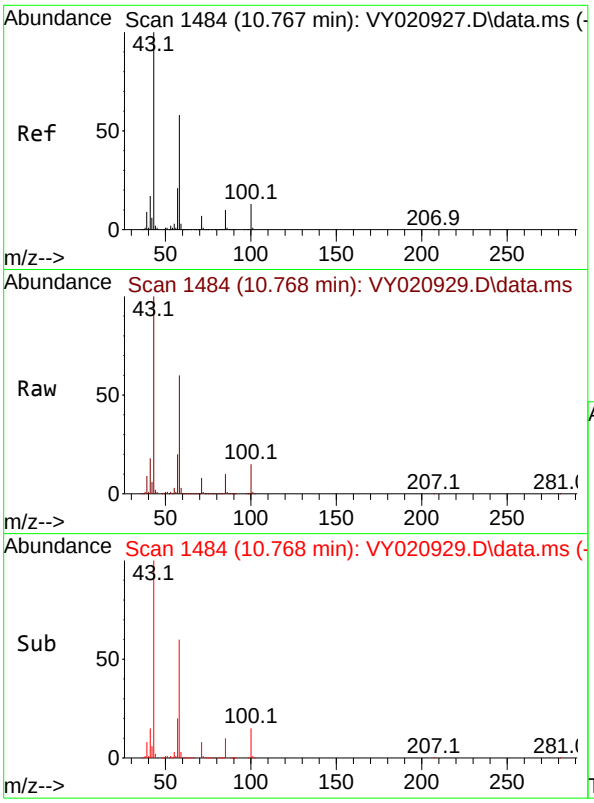




#58
2-Chloroethyl Vinyl ether
Concen: 837.262 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 63 Resp: 803761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 31.3 | 24.7 | 37.1 |






#59
2-Hexanone
Concen: 807.765 ug/l
RT: 10.768 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 43 Resp: 62490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 60.0 | 29.9 | 89.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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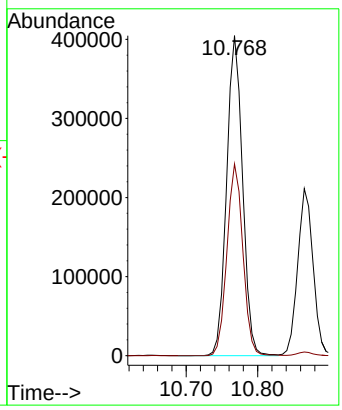
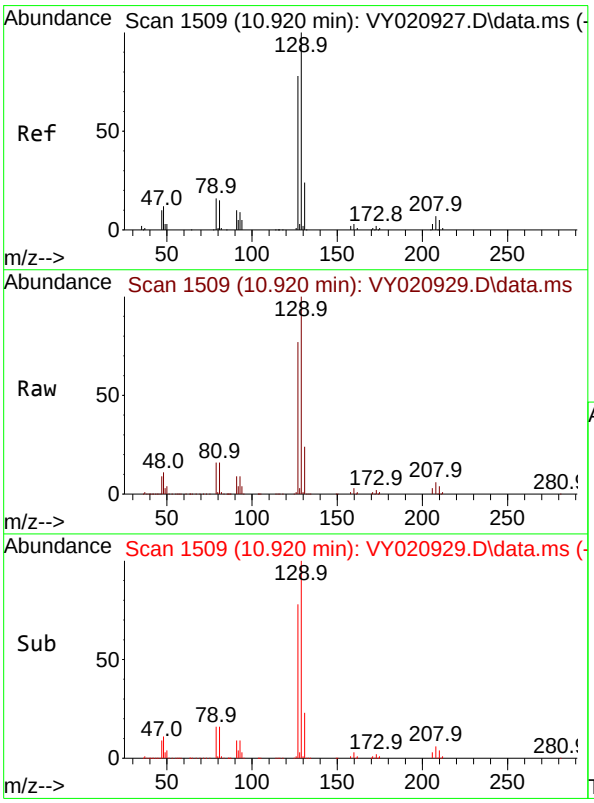
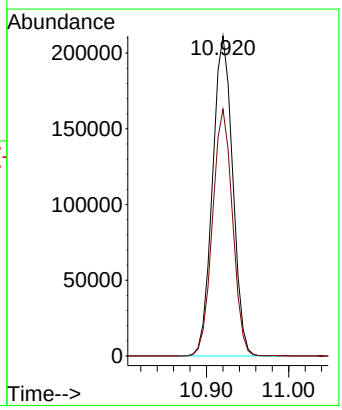


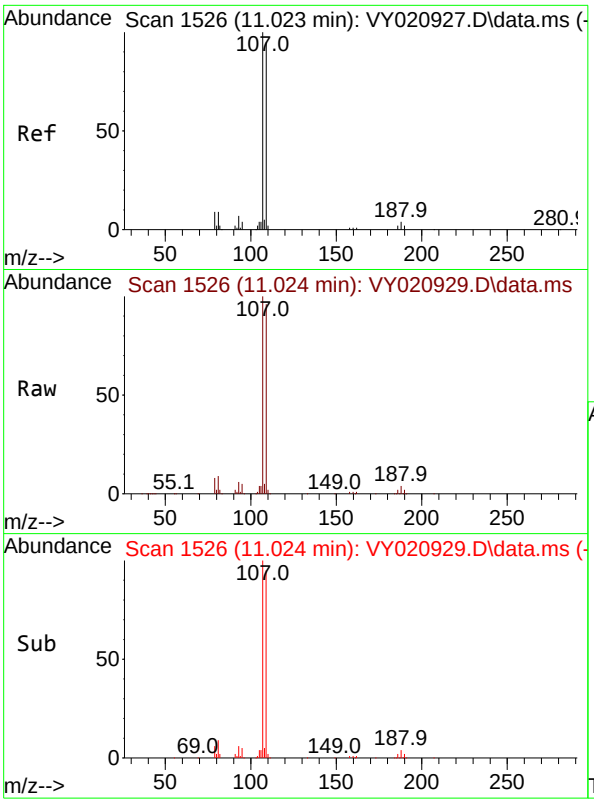




#60
Dibromochloromethane
Concen: 158.120 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:129 Resp: 359156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.6 | 39.2 | 117.6 |






#61
1,2-Dibromoethane
Concen: 155.820 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

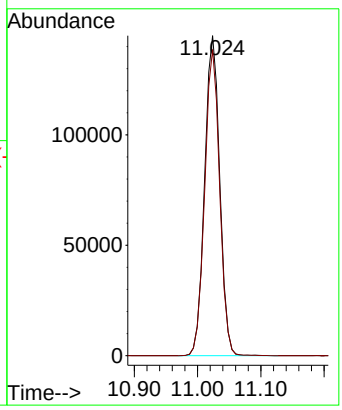
Tgt Ion:107 Resp: 24053

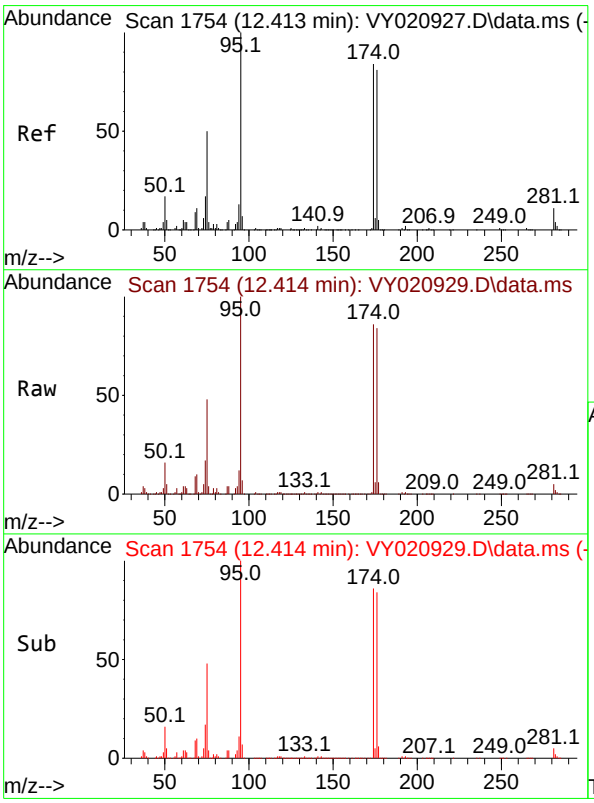
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.7 | 76.3 | 114.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

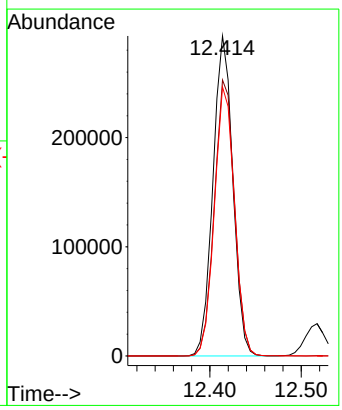


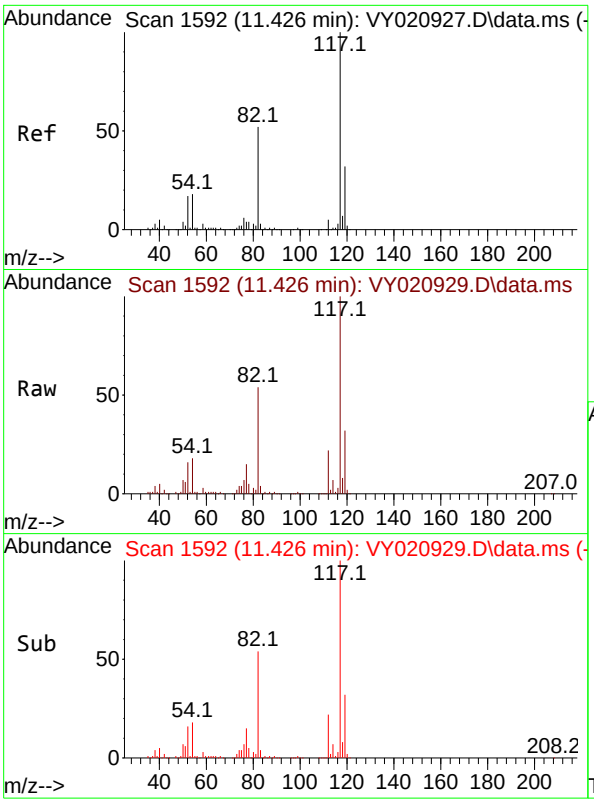




#62
4-Bromofluorobenzene
Concen: 147.391 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 95 Resp: 441957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 87.9 | 0.0 | 177.4 |
| 176 | 85.2 | 0.0 | 172.2 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

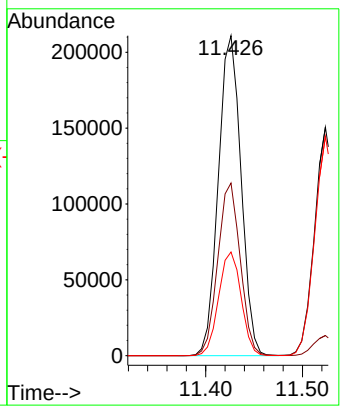
Tgt Ion:117 Resp: 34370

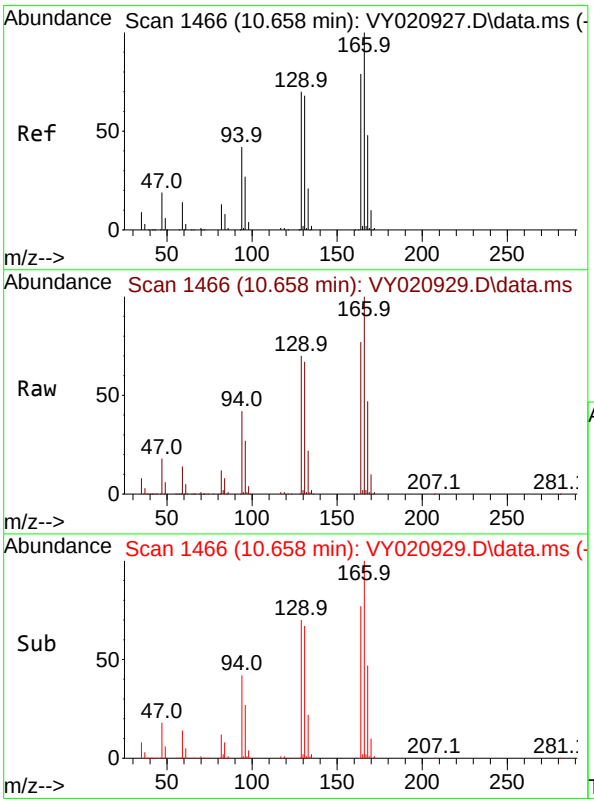
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.0 | 41.8 | 62.8 |
| 119 | 32.4 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

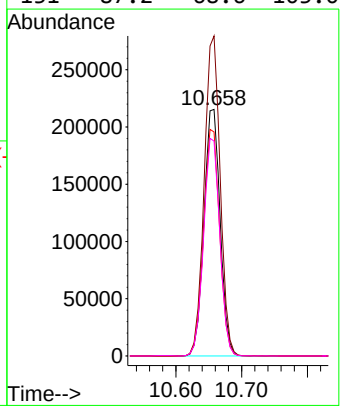


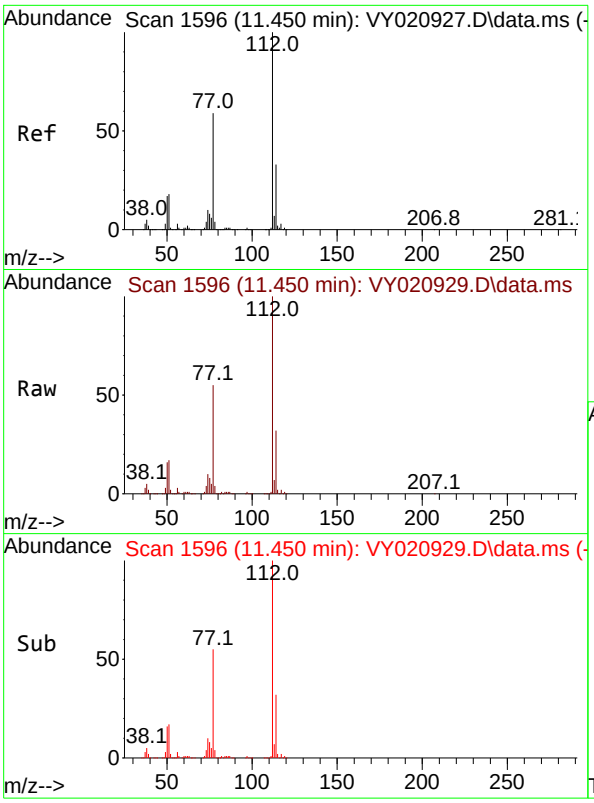




#64
Tetrachloroethene
Concen: 154.318 ug/l
RT: 10.658 min Scan# 1466
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:164 Resp: 369115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 129.8 | 101.0 | 151.6 |
| 129 | 90.9 | 70.8 | 106.2 |
| 131 | 87.2 | 68.6 | 103.0 |






#65
Chlorobenzene
Concen: 155.201 ug/l
RT: 11.450 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

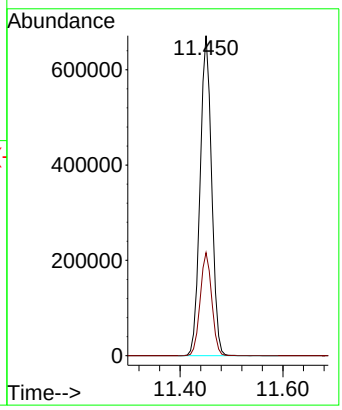
Tgt Ion:112 Resp: 104314

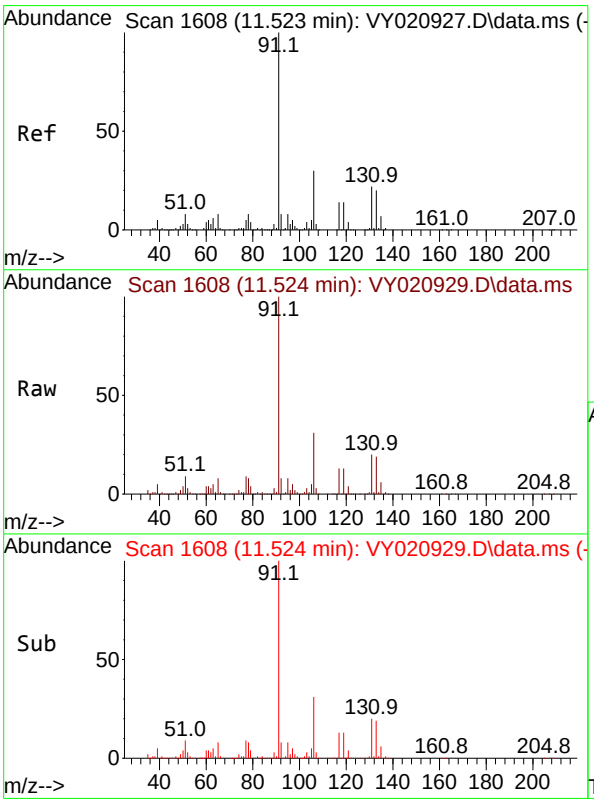
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

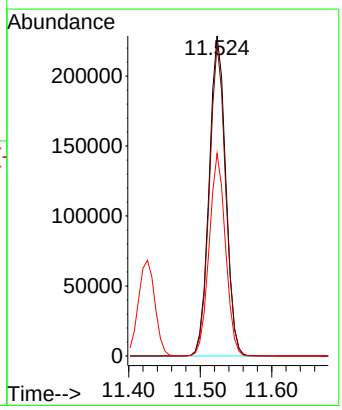


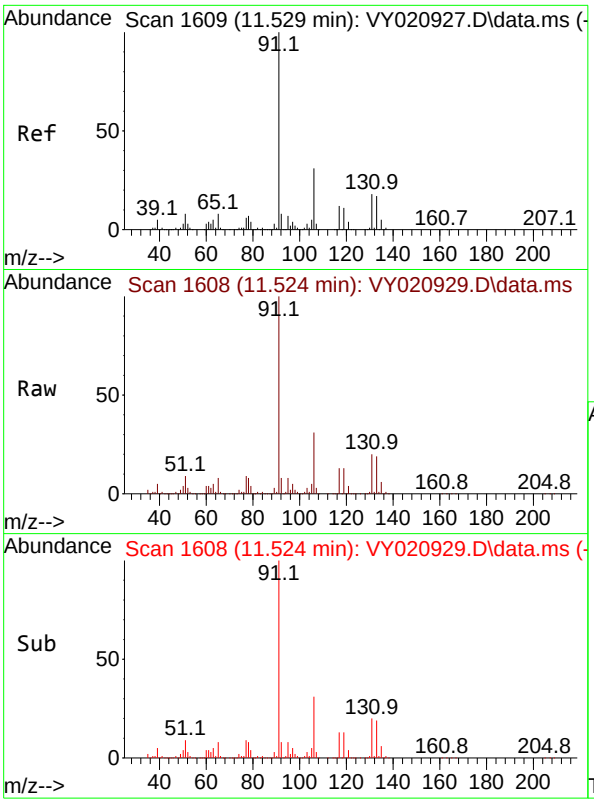




#66
1,1,1,2-Tetrachloroethane
Concen: 153.997 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:131 Resp: 367808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.3 | 47.5 | 142.6 |
| 119 | 62.2 | 31.2 | 93.6 |






#67
Ethyl Benzene
Concen: 156.212 ug/l
RT: 11.524 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

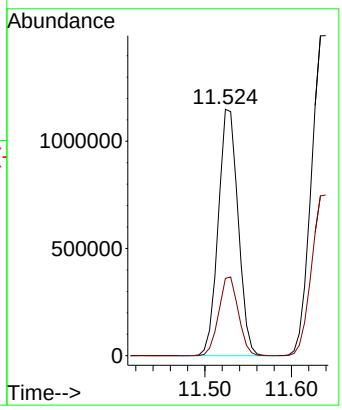
Tgt Ion: 91 Resp: 183208

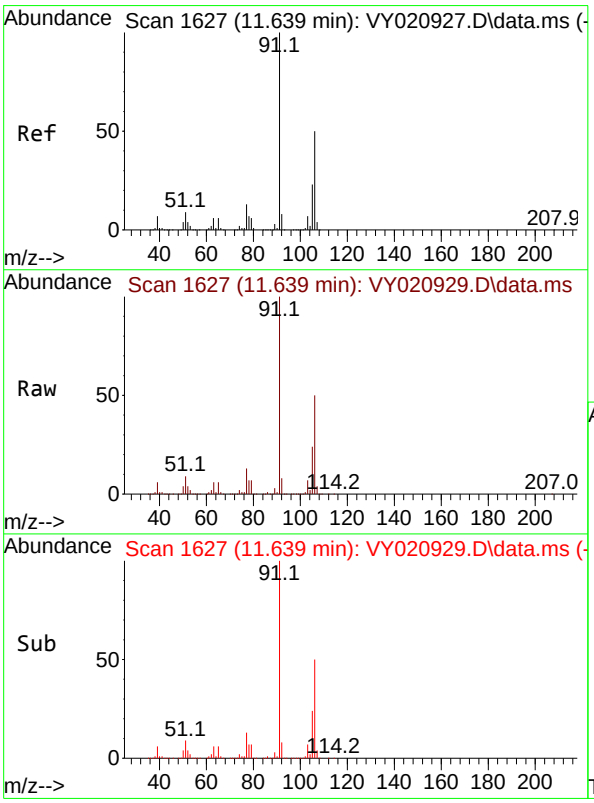
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.3 | 25.2 | 37.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

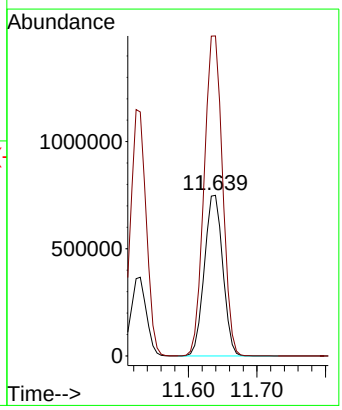


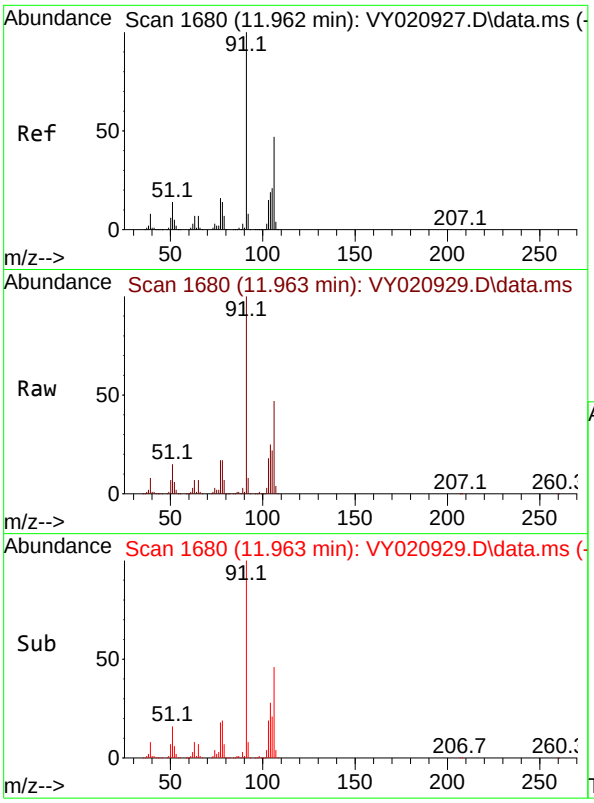




#68
m/p-Xylenes
Concen: 311.877 ug/l
RT: 11.639 min Scan# 1627
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:106 Resp: 1400598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 199.3 | 159.5 | 239.3 |






#69
o-Xylene
Concen: 156.114 ug/l
RT: 11.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

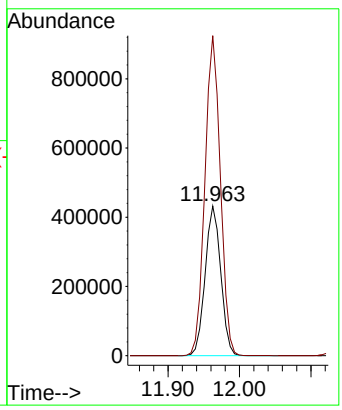
Tgt Ion:106 Resp: 654879

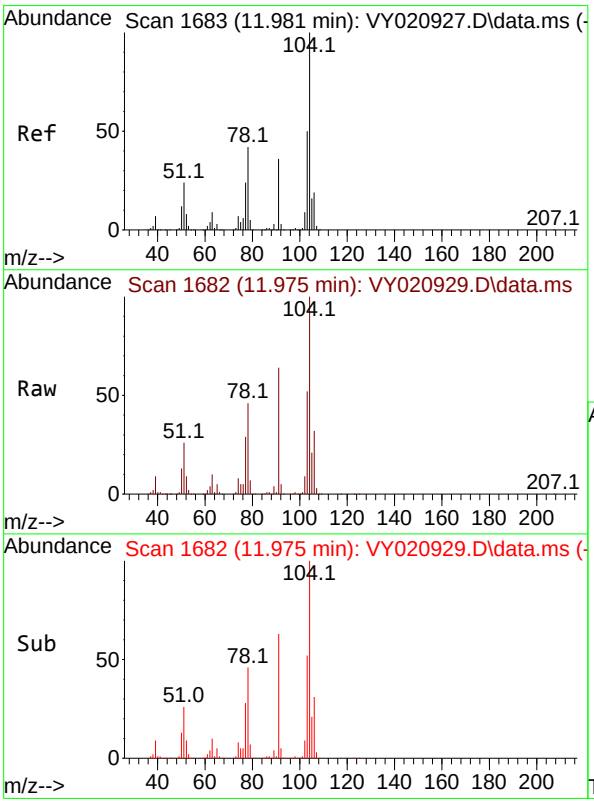
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 212.0 | 105.3 | 315.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

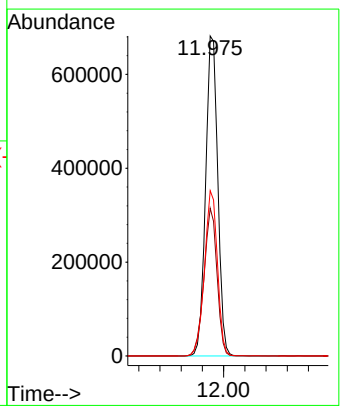


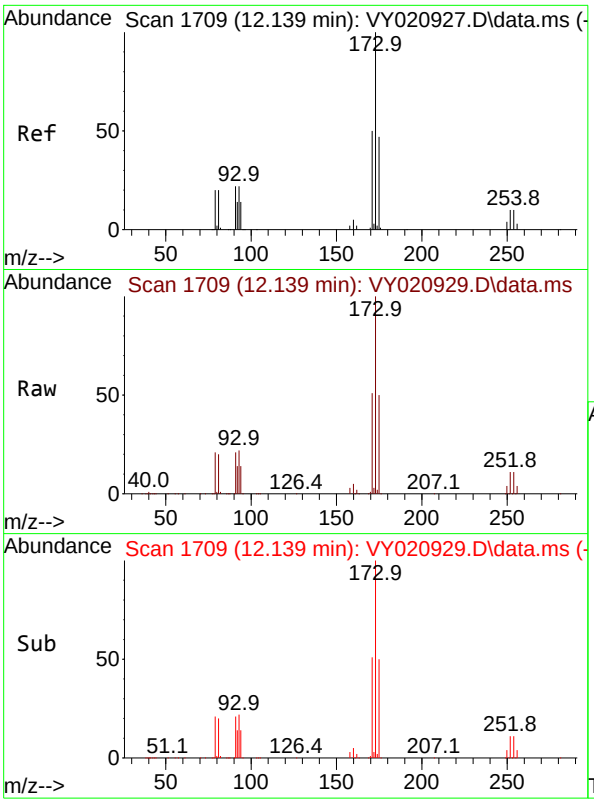




#70
Styrene
Concen: 157.680 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:104 Resp: 1084023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.4 | 38.5 | 57.7 |
| 103 | 55.0 | 43.4 | 65.2 |






#71
Bromoform
Concen: 154.159 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

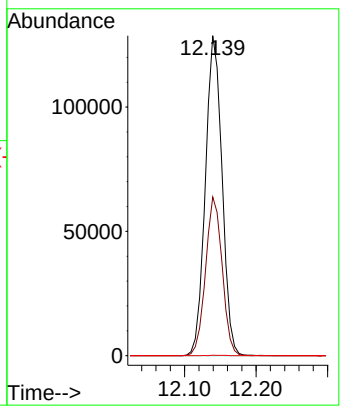
Tgt Ion:173 Resp: 20849

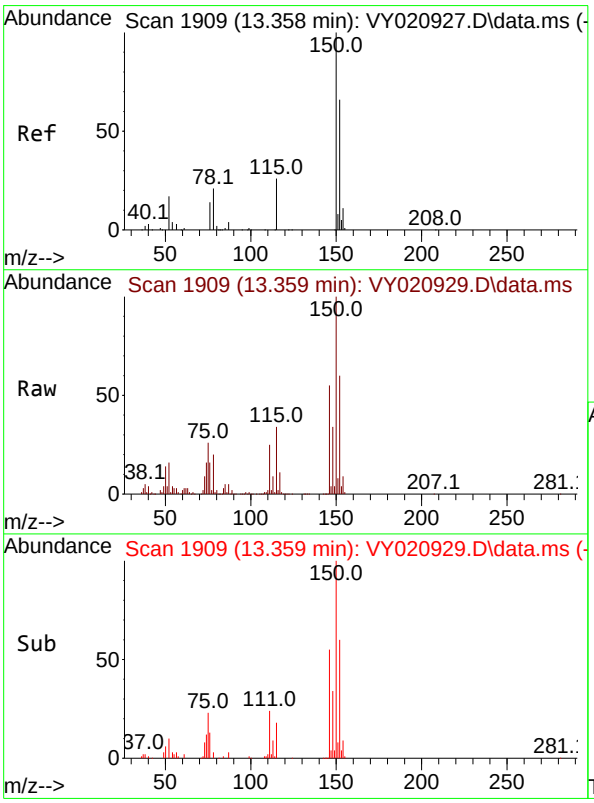
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.3 | 24.3 | 73.0 |
| 254 | 0.1 | 0.1 | 0.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

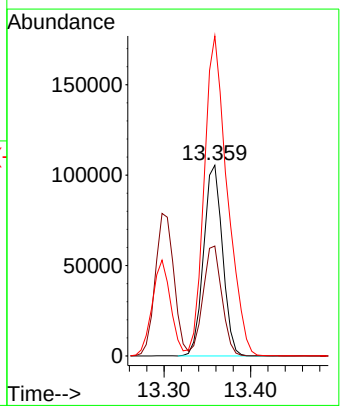


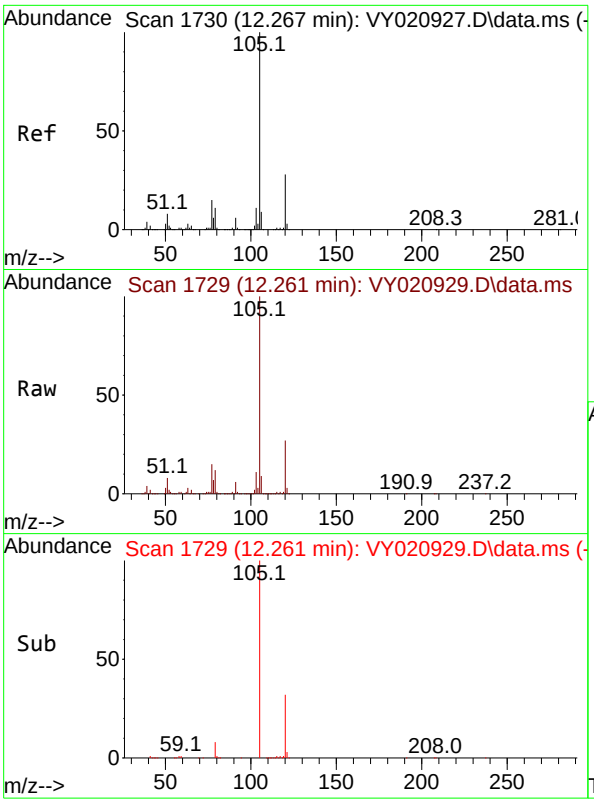




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:152 Resp: 159694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.5 | 29.0 | 87.0 |
| 150 | 205.6 | 0.0 | 347.6 |






#73
Isopropylbenzene
Concen: 158.495 ug/l
RT: 12.261 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

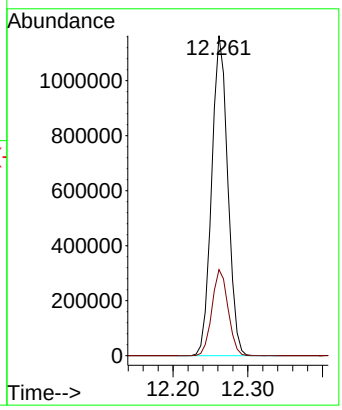
Tgt Ion:105 Resp: 174320

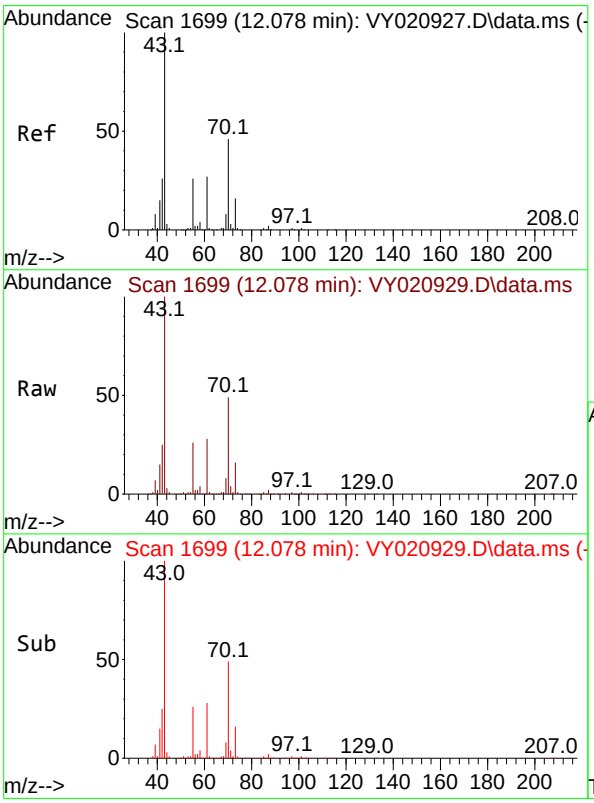
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.8 | 13.4 | 40.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

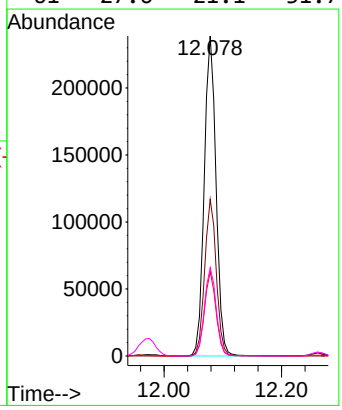


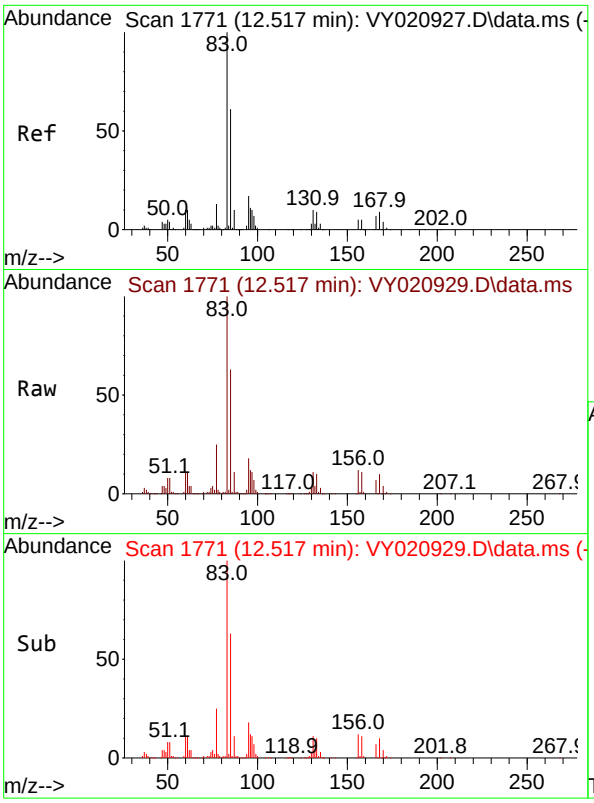




#74
N-amyl acetate
Concen: 170.034 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 43 Resp: 332775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 48.5 | 38.7 | 58.1 |
| 55 | 25.9 | 21.6 | 32.4 |
| 61 | 27.6 | 21.1 | 31.7 |






#75
1,1,2,2-Tetrachloroethane
Concen: 153.376 ug/l
RT: 12.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 83 Resp: 26246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.6 | 5.5 | 16.7 |
| 85 | 64.5 | 31.8 | 95.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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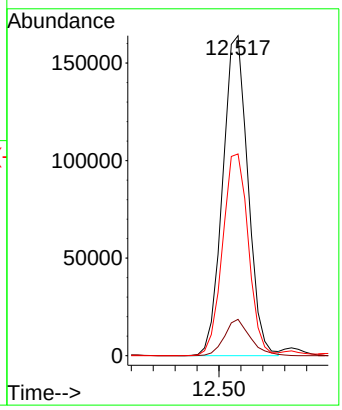
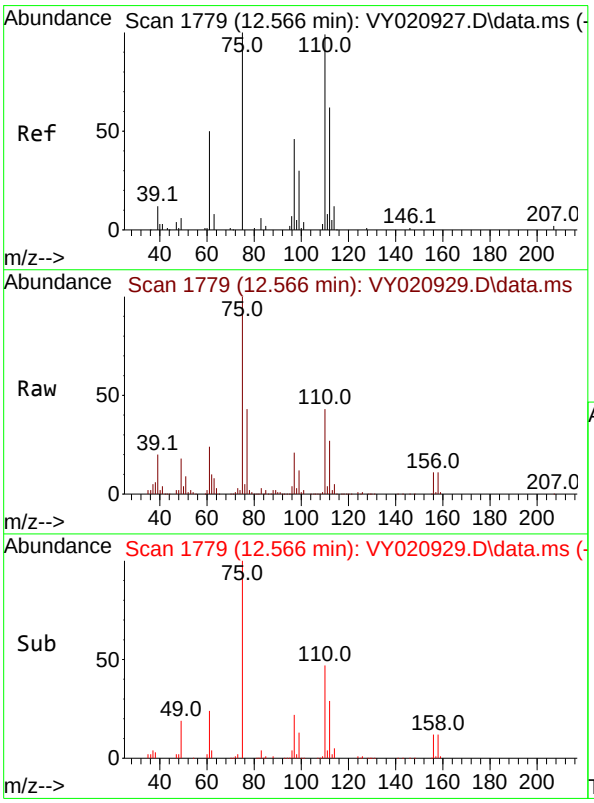
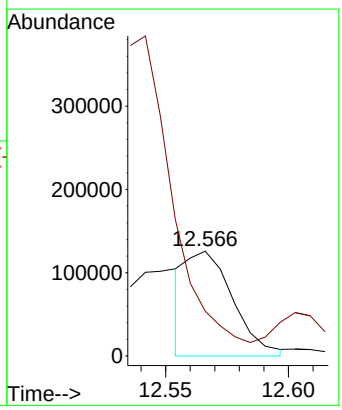


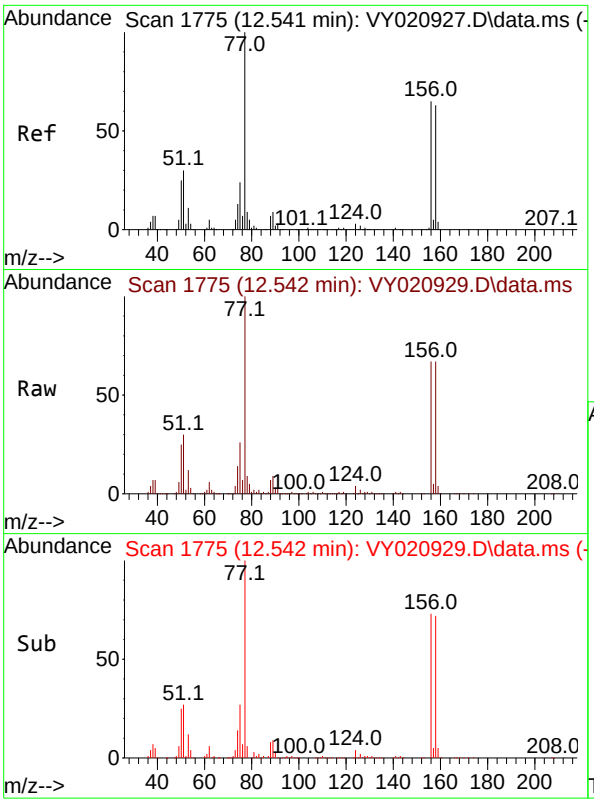




#76
1,2,3-Trichloropropane
Concen: 147.884 ug/l m
RT: 12.566 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 75 Resp: 166975

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






#77
Bromobenzene
Concen: 158.485 ug/l
RT: 12.542 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:156 Resp: 40859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 166.5 | 84.4 | 253.1 |
| 158 | 97.1 | 48.9 | 146.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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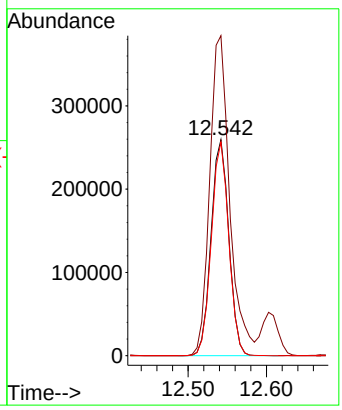
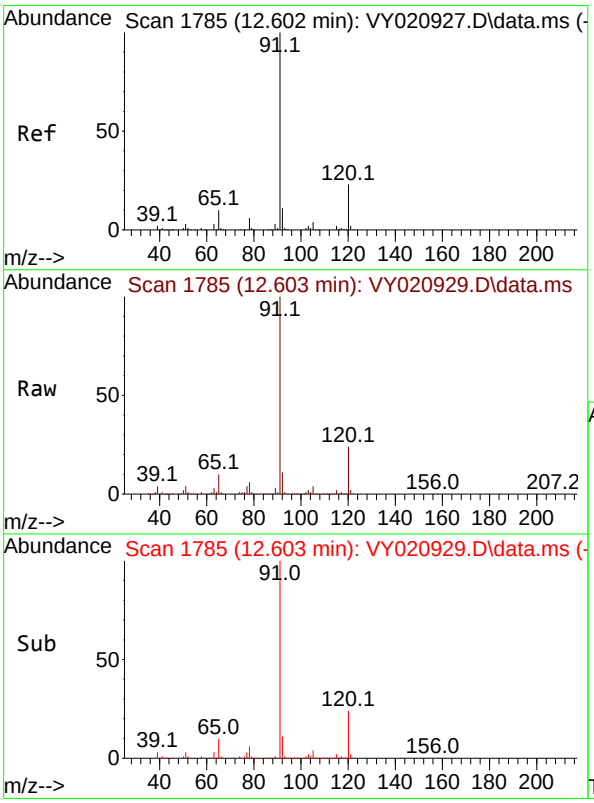
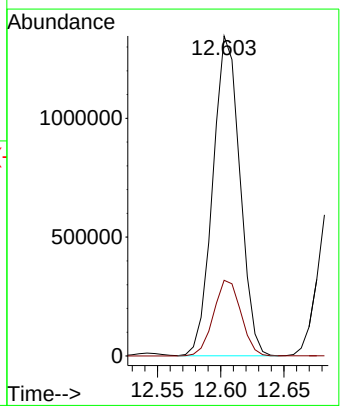


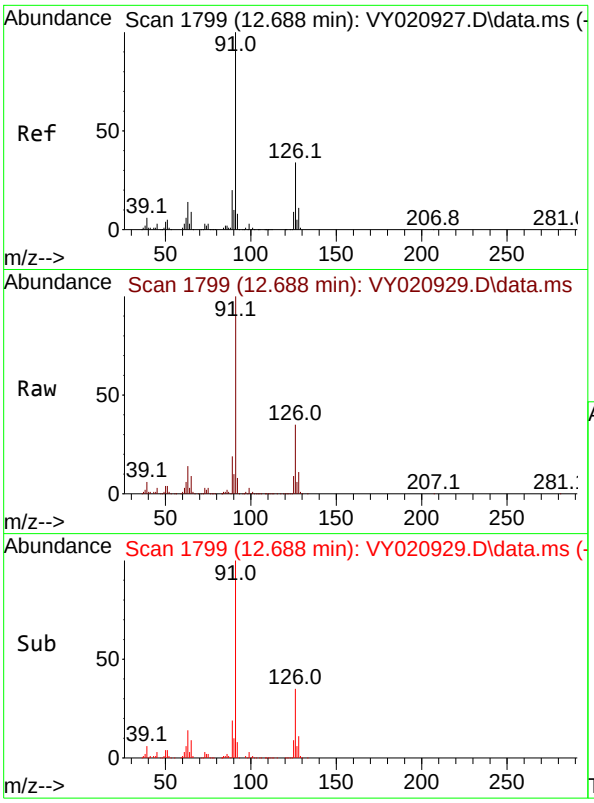




#78
n-propylbenzene
Concen: 156.282 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 91 Resp: 2002187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.9 | 11.8 | 35.4 |






#79
2-Chlorotoluene
Concen: 156.460 ug/l
RT: 12.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

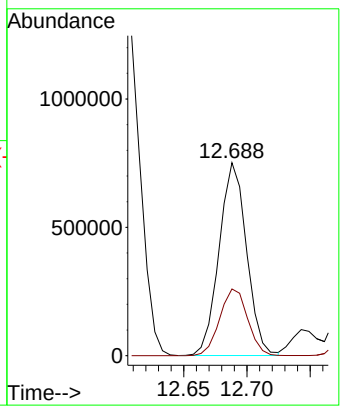
Tgt Ion: 91 Resp: 113687

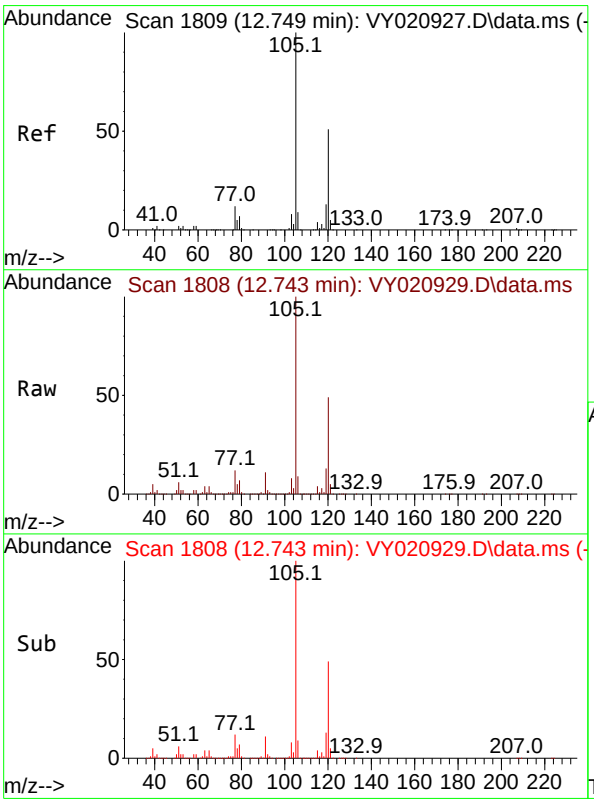
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.2 | 17.6 | 52.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

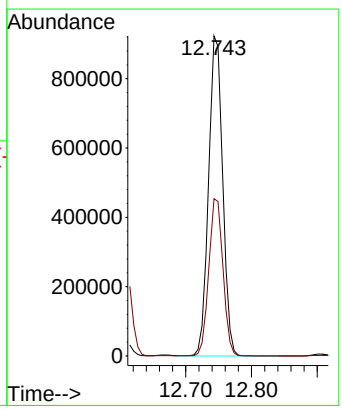


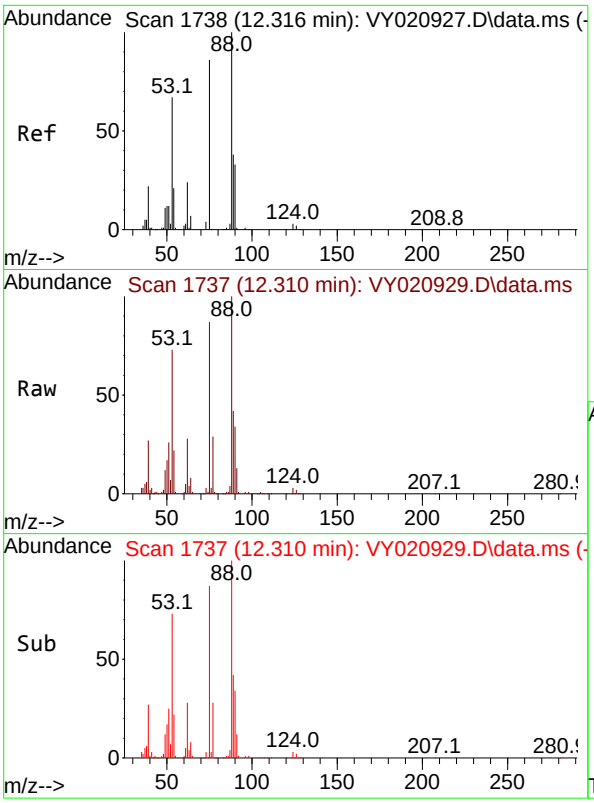




#80
1,3,5-Trimethylbenzene
Concen: 156.003 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:105 Resp: 1378679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.4 | 24.9 | 74.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 165.961 ug/l
RT: 12.310 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

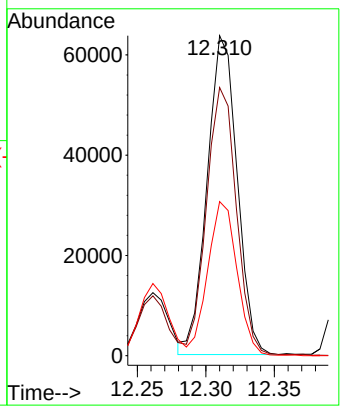
Tgt Ion: 75 Resp: 9699

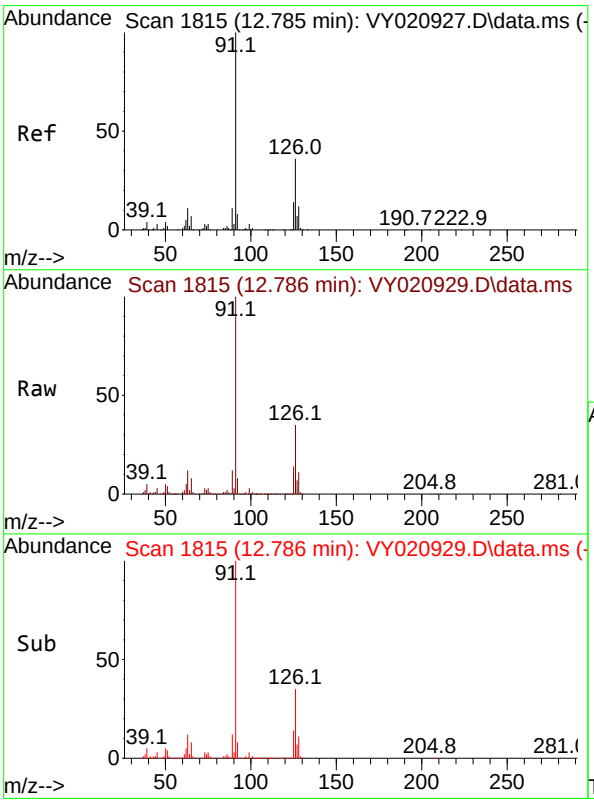
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 83.8 | 67.7 | 101.5 |
| 89 | 47.3 | 38.4 | 57.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

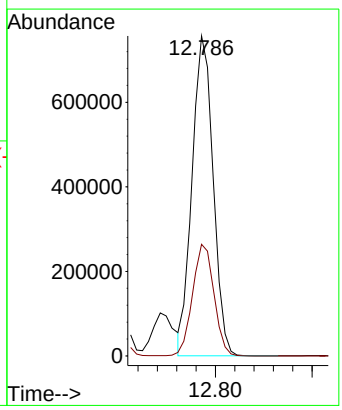


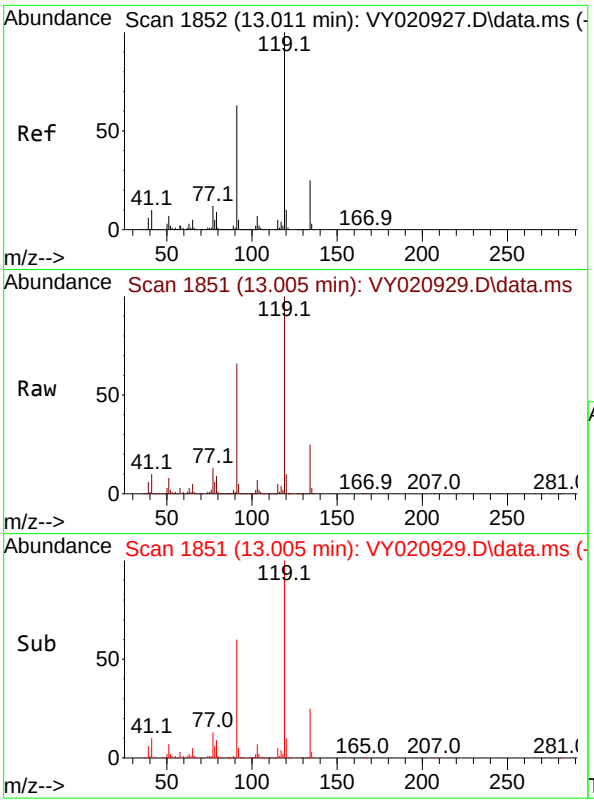




#82
4-Chlorotoluene
Concen: 154.069 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 91 Resp: 1143182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.6 | 17.4 | 52.3 |






#83
tert-Butylbenzene
Concen: 155.515 ug/l
RT: 13.005 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

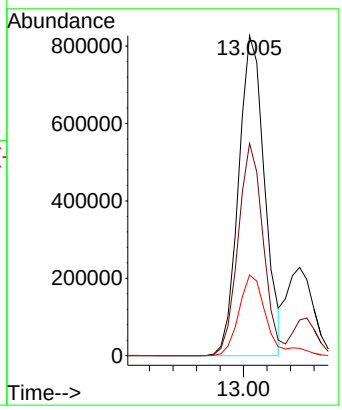
Tgt Ion:119 Resp: 126767

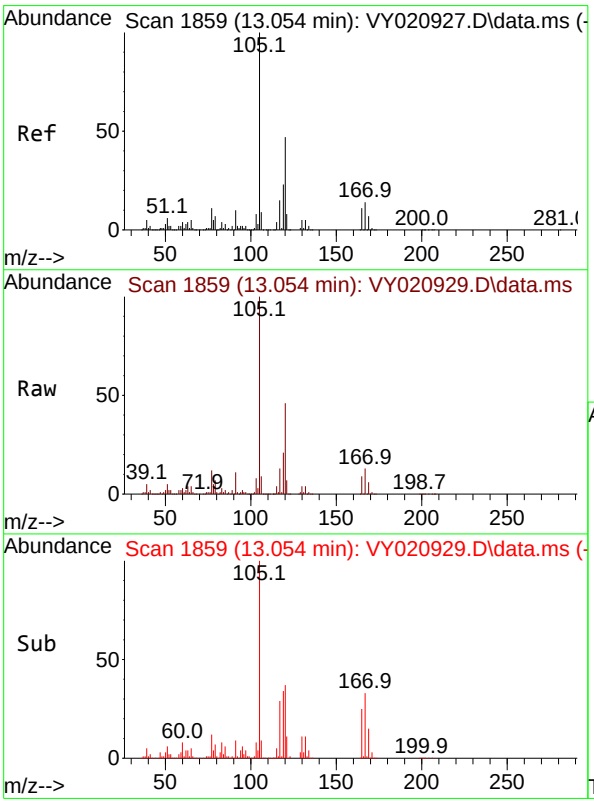
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.5 | 30.9 | 92.8 |
| 134 | 27.1 | 13.1 | 39.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

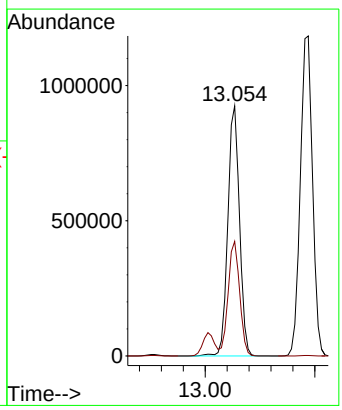


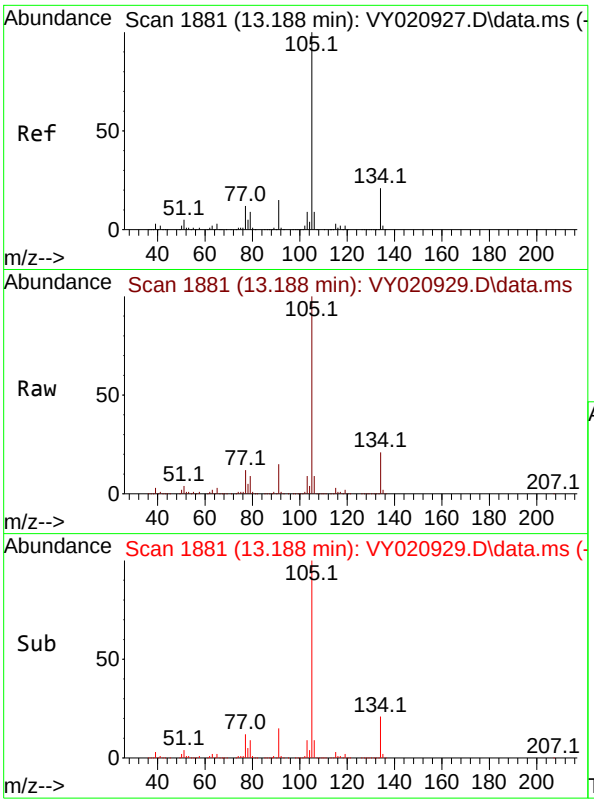




#84
1,2,4-Trimethylbenzene
Concen: 157.334 ug/l
RT: 13.054 min Scan# 1859
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:105 Resp: 1368819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.5 | 22.9 | 68.7 |






#85
sec-Butylbenzene
Concen: 156.460 ug/l
RT: 13.188 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

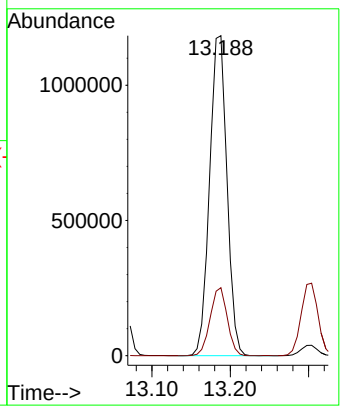
Tgt Ion:105 Resp: 181836

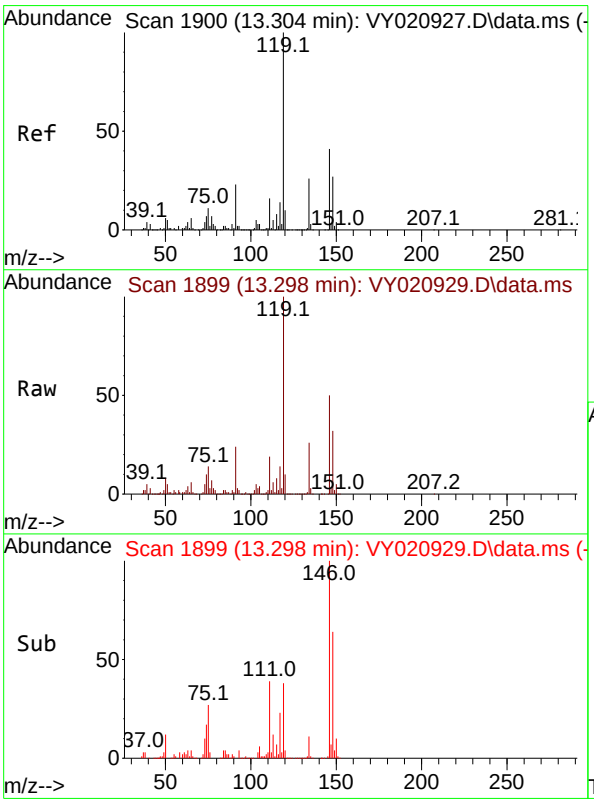
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.9 | 10.4 | 31.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

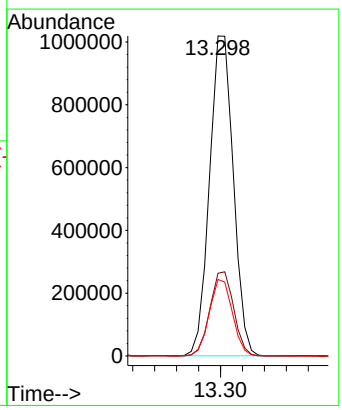


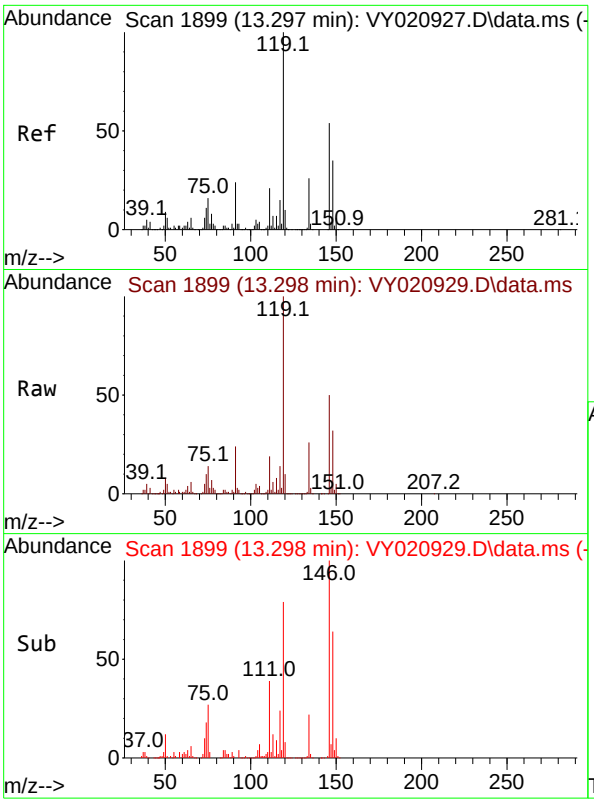




#86
p-Isopropyltoluene
Concen: 156.824 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.006 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:119 Resp: 1539802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 13.3 | 39.8 |
| 91 | 23.4 | 11.6 | 34.7 |






#87
1,3-Dichlorobenzene
Concen: 153.637 ug/l
RT: 13.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

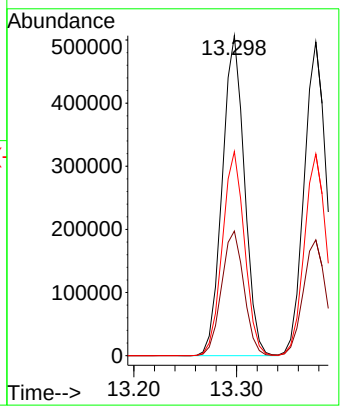
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

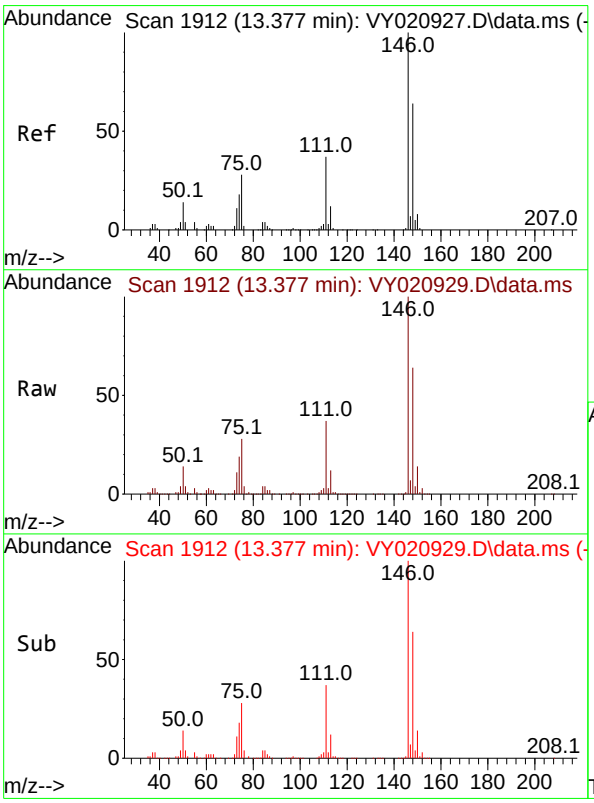
Tgt Ion:146 Resp: 75848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.3 | 19.4 | 58.2 |
| 148 | 63.8 | 31.9 | 95.7 |

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

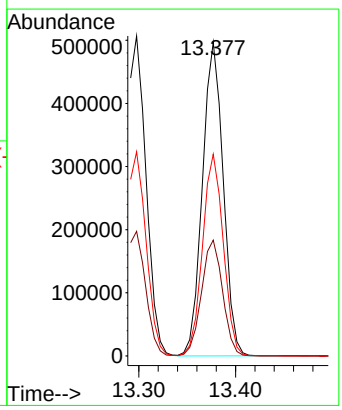


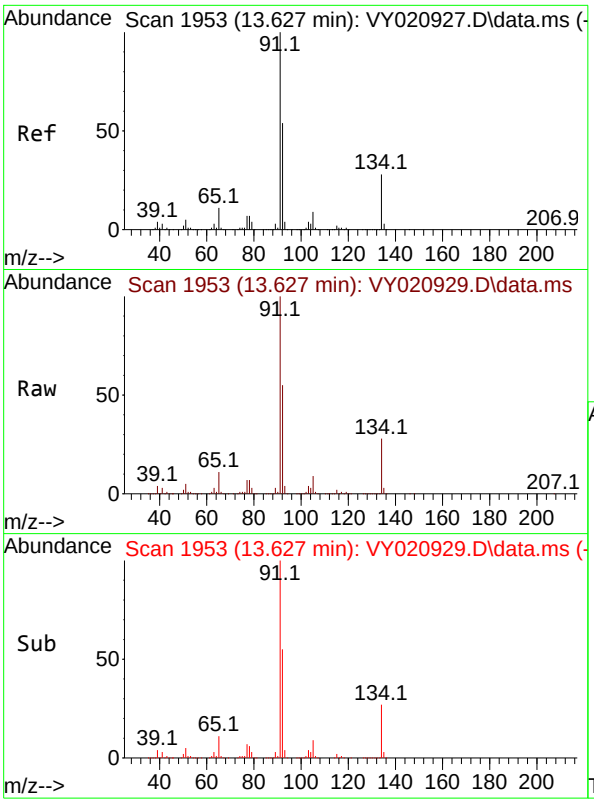




#88
1,4-Dichlorobenzene
Concen: 153.438 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:146 Resp: 744117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.4 | 18.8 | 56.4 |
| 148 | 64.2 | 32.0 | 96.0 |






#89
n-Butylbenzene
Concen: 159.423 ug/l
RT: 13.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

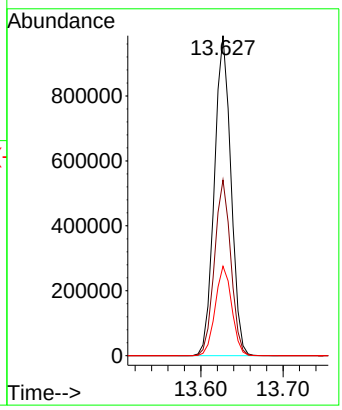
Tgt Ion: 91 Resp: 138073

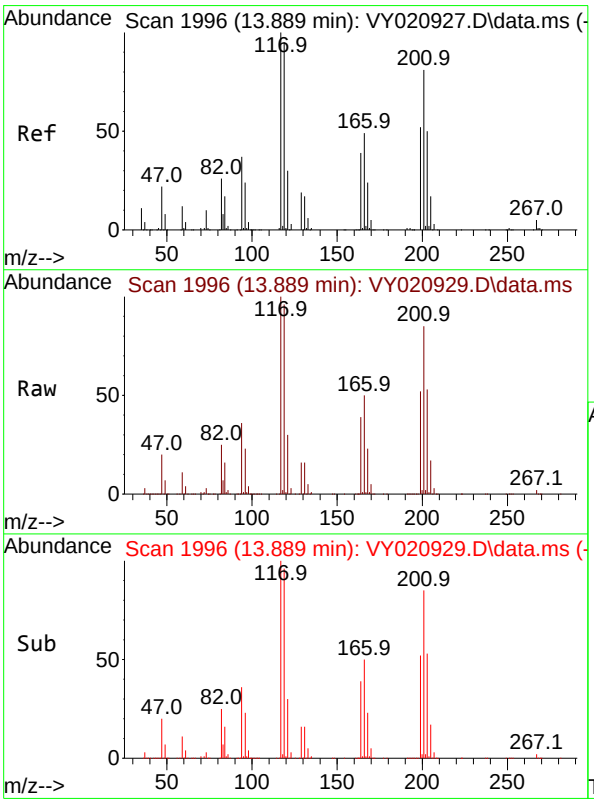
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.1 | 26.8 | 80.3 |
| 134 | 27.9 | 13.8 | 41.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

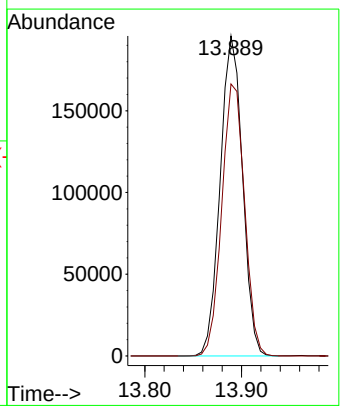


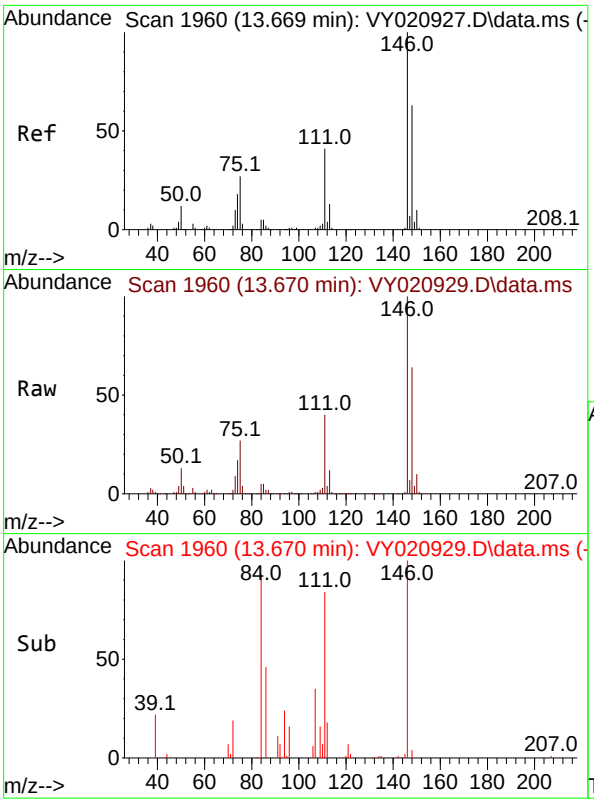




#90
Hexachloroethane
Concen: 160.650 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:117 Resp: 313343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 86.7 | 42.7 | 128.1 |






#91
1,2-Dichlorobenzene
Concen: 154.362 ug/l
RT: 13.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

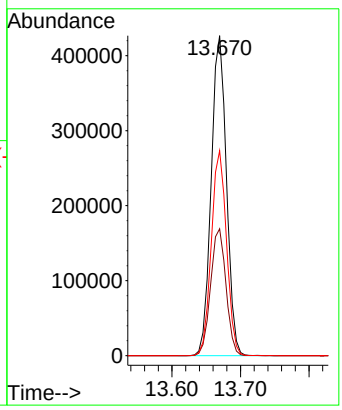
Tgt Ion:146 Resp: 66024

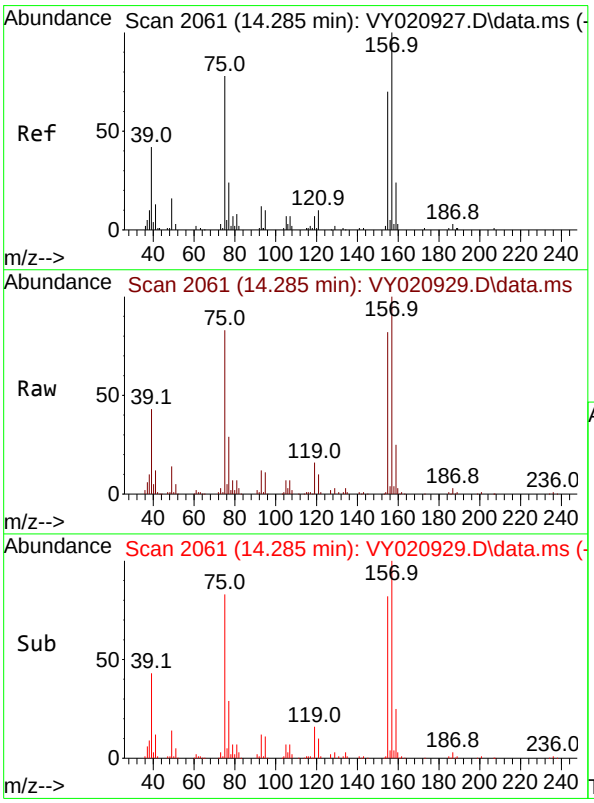
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.1 | 20.2 | 60.6 |
| 148 | 63.9 | 32.2 | 96.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

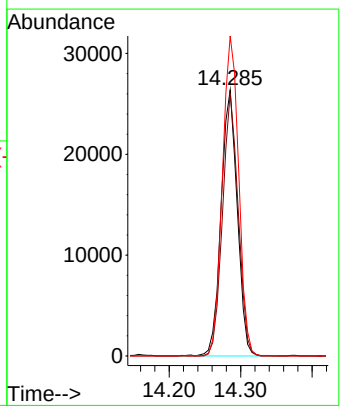


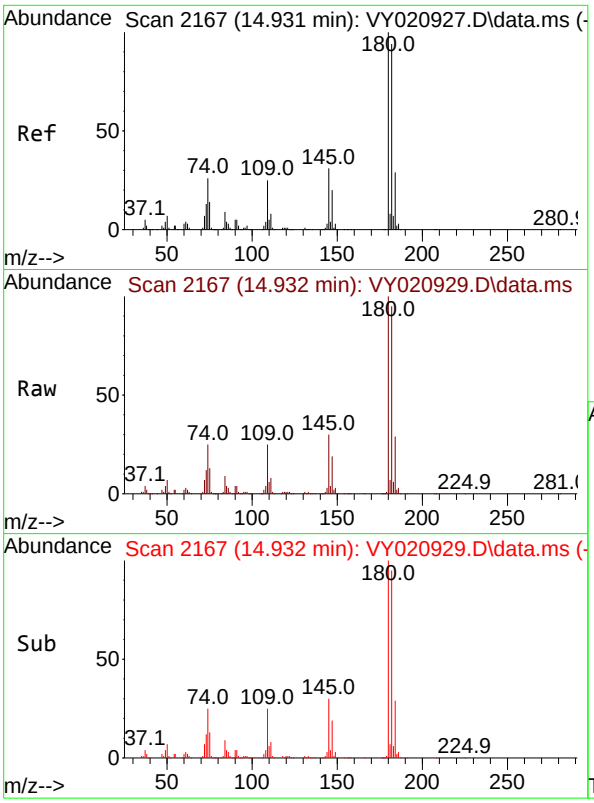




#92
1,2-Dibromo-3-Chloropropane
Concen: 161.122 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion: 75 Resp: 41420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 95.5 | 46.6 | 139.7 |
| 157 | 121.0 | 60.1 | 180.3 |






#93
1,2,4-Trichlorobenzene
Concen: 174.595 ug/l
RT: 14.932 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

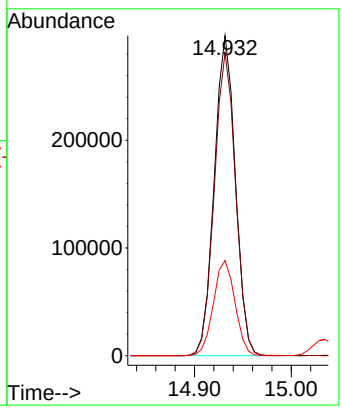
Tgt Ion:180 Resp: 44924

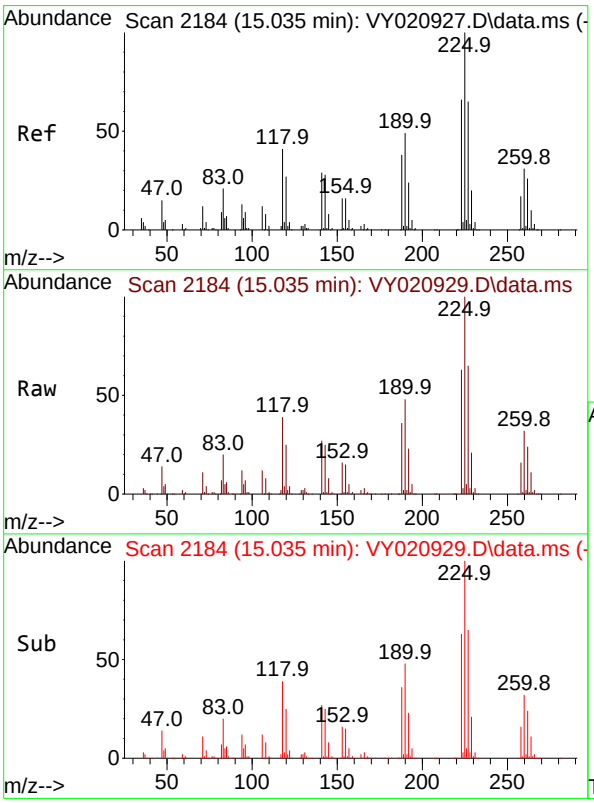
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 47.0 | 141.2 |
| 145 | 30.4 | 14.9 | 44.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

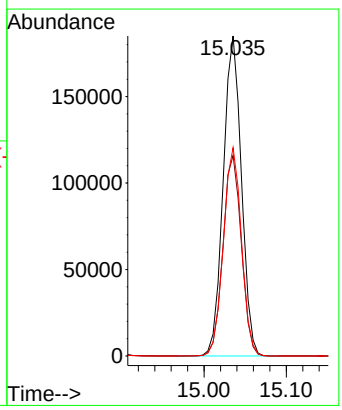


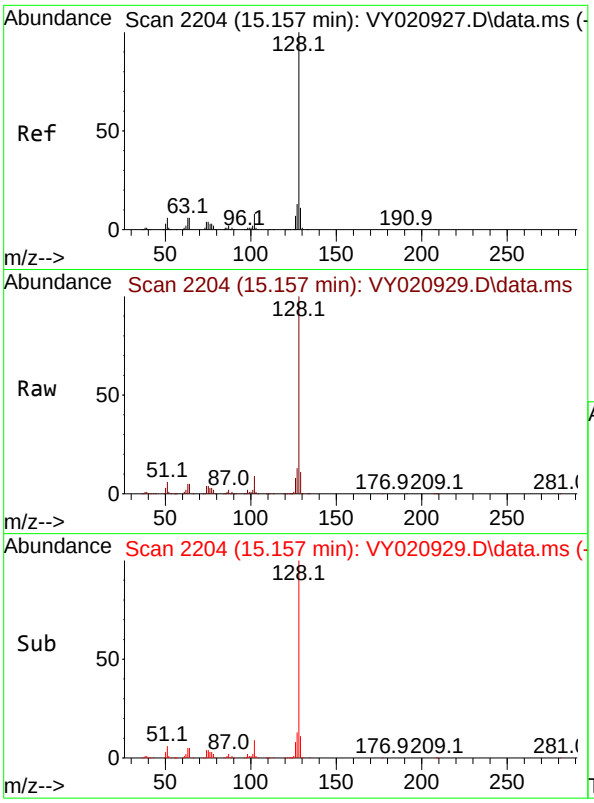




#94
Hexachlorobutadiene
Concen: 161.033 ug/l
RT: 15.035 min Scan# 2184
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:225 Resp: 283490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.2 | 31.5 | 94.5 |
| 227 | 64.8 | 31.9 | 95.9 |






#95
Naphthalene
Concen: 187.684 ug/l
RT: 15.157 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

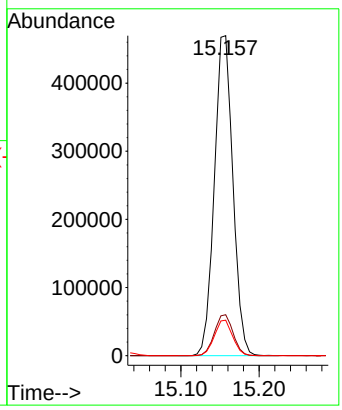
Tgt Ion:128 Resp: 77440

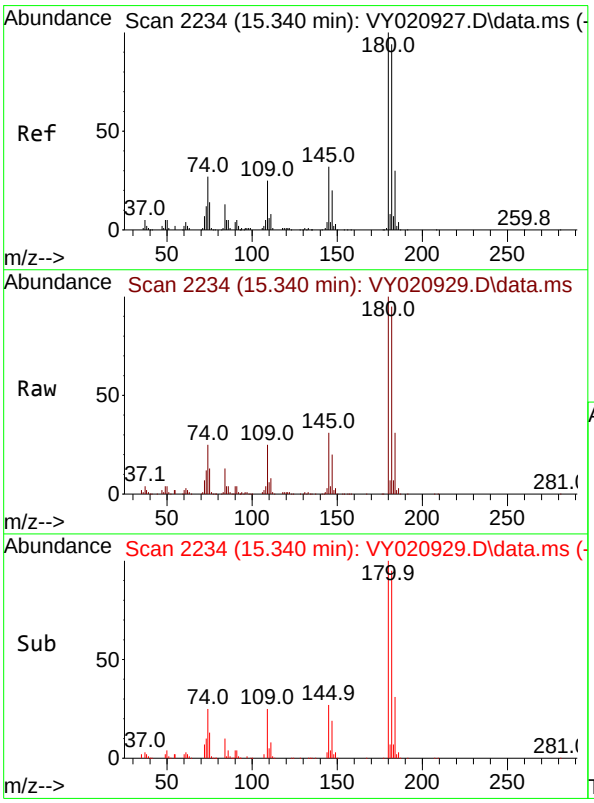
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.3 | 15.5 |
| 129 | 11.0 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

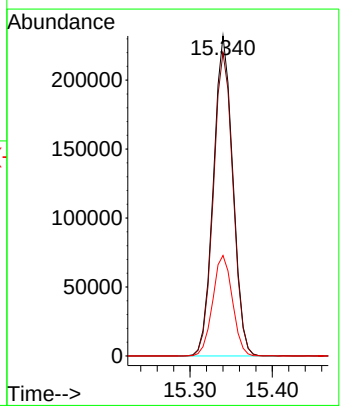



#96
1,2,3-Trichlorobenzene
Concen: 176.701 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020929.D
Acq: 24 Jan 2025 14:50

Tgt Ion:180 Resp: 381981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.5 | 142.6 |
| 145 | 31.8 | 15.7 | 47.0 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020931.D
Acq On : 24 Jan 2025 15:36
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

Quant Time: Jan 25 00:48:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 289978 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 430487 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 365613 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 179543 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 47430 | 20.515 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 41.020%# | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 49373 | 19.978 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 39.960%# | | | |
| 50) Toluene-d8 | 10.115 | 98 | 193034 | 20.137 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 40.280%# | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 67079 | 21.026 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 42.060% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 45047 | 20.539 | ug/l | 99 |
| 3) Chloromethane | 2.074 | 50 | 32792 | 20.102 | ug/l | 98 |
| 4) Vinyl Chloride | 2.214 | 62 | 35978 | 20.236 | ug/l | 99 |
| 5) Bromomethane | 2.605 | 94 | 23600 | 19.598 | ug/l | 89 |
| 6) Chloroethane | 2.745 | 64 | 21272 | 20.394 | ug/l | 90 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 77595 | 20.542 | ug/l | 96 |
| 8) Diethyl Ether | 3.464 | 74 | 24845 | 21.400 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 50091 | 20.097 | ug/l | 99 |
| 10) Methyl Iodide | 4.013 | 142 | 55213 | 18.588 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.879 | 59 | 22549 | 126.340 | ug/l # | 94 |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 47840 | 20.324 | ug/l | 94 |
| 13) Acrolein | 3.665 | 56 | 27526 | 113.764 | ug/l | 94 |
| 14) Allyl chloride | 4.397 | 41 | 66350 | 20.196 | ug/l | 99 |
| 15) Acrylonitrile | 5.074 | 53 | 51695 | 113.277 | ug/l | 99 |
| 16) Acetone | 3.885 | 43 | 34755 | 110.950 | ug/l | 94 |
| 17) Carbon Disulfide | 4.116 | 76 | 147791 | 20.331 | ug/l | 100 |
| 18) Methyl Acetate | 4.397 | 43 | 24374 | 21.539 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.128 | 73 | 117954 | 21.635 | ug/l | 100 |
| 20) Methylene Chloride | 4.629 | 84 | 47904 | 20.562 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.128 | 96 | 51418 | 20.260 | ug/l | 96 |
| 22) Diisopropyl ether | 6.031 | 45 | 139203 | 21.065 | ug/l | 95 |
| 23) Vinyl Acetate | 5.976 | 43 | 406636 | 111.184 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.933 | 63 | 86019 | 20.535 | ug/l | 100 |
| 25) 2-Butanone | 6.909 | 43 | 60455 | 113.931 | ug/l | 93 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 83767 | 20.302 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 6.903 | 96 | 58008 | 20.253 | ug/l | 99 |
| 28) Bromochloromethane | 7.256 | 49 | 35777 | 21.221 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.274 | 42 | 40402 | 114.246 | ug/l | 97 |
| 30) Chloroform | 7.433 | 83 | 91212 | 20.573 | ug/l | 98 |
| 31) Cyclohexane | 7.713 | 56 | 82836 | 20.120 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 87395 | 20.322 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.848 | 75 | 69611 | 20.174 | ug/l | 99 |
| 37) Ethyl Acetate | 6.994 | 43 | 30824 | 23.025 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 83916 | 20.167 | ug/l | 97 |
| 39) Methylcyclohexane | 9.116 | 83 | 93850 | 20.091 | ug/l | 99 |
| 40) Benzene | 8.091 | 78 | 206141 | 20.364 | ug/l | 100 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020931.D
Acq On : 24 Jan 2025 15:36
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 25 00:48:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.238 | 41 | 16615 | 23.494 ug/l | 95 |
| 42) 1,2-Dichloroethane | 8.165 | 62 | 52811 | 20.967 ug/l | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 56326 | 22.188 ug/l | 99 |
| 44) Trichloroethene | 8.872 | 130 | 56209 | 20.439 ug/l | 95 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 45949 | 20.564 ug/l | 99 |
| 46) Dibromomethane | 9.238 | 93 | 26732 | 21.044 ug/l | 98 |
| 47) Bromodichloromethane | 9.433 | 83 | 68617 | 20.301 ug/l | 96 |
| 48) Methyl methacrylate | 9.231 | 41 | 26554 | 22.174 ug/l | 99 |
| 49) 1,4-Dioxane | 9.244 | 88 | 5828 | 445.582 ug/l # | 88 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 146557 | 114.497 ug/l | 99 |
| 52) Toluene | 10.176 | 92 | 133243 | 20.466 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 65647 | 21.182 ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 76874 | 20.774 ug/l | 97 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 37345 | 21.749 ug/l | 97 |
| 56) Ethyl methacrylate | 10.445 | 69 | 50068 | 22.249 ug/l | 97 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 62652 | 21.478 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 112684 | 110.326 ug/l | 100 |
| 59) 2-Hexanone | 10.768 | 43 | 94718 | 115.076 ug/l | 100 |
| 60) Dibromochloromethane | 10.920 | 129 | 51025 | 21.114 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 34995 | 21.308 ug/l | 99 |
| 64) Tetrachloroethene | 10.652 | 164 | 50827 | 19.976 ug/l | 95 |
| 65) Chlorobenzene | 11.451 | 112 | 144883 | 20.264 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 52308 | 20.589 ug/l | 99 |
| 67) Ethyl Benzene | 11.524 | 91 | 251776 | 20.181 ug/l | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 194981 | 40.816 ug/l | 100 |
| 69) o-Xylene | 11.963 | 106 | 90565 | 20.296 ug/l | 99 |
| 70) Styrene | 11.975 | 104 | 150141 | 20.531 ug/l | 99 |
| 71) Bromoform | 12.139 | 173 | 31153 | 21.654 ug/l # | 100 |
| 73) Isopropylbenzene | 12.261 | 105 | 245822 | 19.880 ug/l | 100 |
| 74) N-amyl acetate | 12.078 | 43 | 47608 | 21.636 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 41442 | 21.540 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.566 | 75 | 25306m | 19.935 ug/l | |
| 77) Bromobenzene | 12.542 | 156 | 57368 | 19.792 ug/l | 99 |
| 78) n-propylbenzene | 12.603 | 91 | 284362 | 19.742 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 161030 | 19.711 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 199670 | 20.096 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 13970 | 21.261 ug/l | 96 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 169283 | 20.292 ug/l | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 182524 | 19.916 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.054 | 105 | 197286 | 20.169 ug/l | 98 |
| 85) sec-Butylbenzene | 13.182 | 105 | 261437 | 20.008 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 222126 | 20.122 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.298 | 146 | 111608 | 20.108 ug/l | 98 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 109409 | 20.066 ug/l | 98 |
| 89) n-Butylbenzene | 13.627 | 91 | 193984 | 19.922 ug/l | 99 |
| 90) Hexachloroethane | 13.889 | 117 | 41758 | 19.042 ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 13.670 | 146 | 96672 | 20.103 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 6469 | 22.382 ug/l | 94 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 56876 | 19.661 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 37927 | 19.162 ug/l | 99 |
| 95) Naphthalene | 15.157 | 128 | 93615 | 20.180 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 48266 | 19.859 ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020931.D
Acq On : 24 Jan 2025 15:36
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Jan 25 00:48:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

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

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

Quantitation Report (QT Reviewed)

ICAL Form

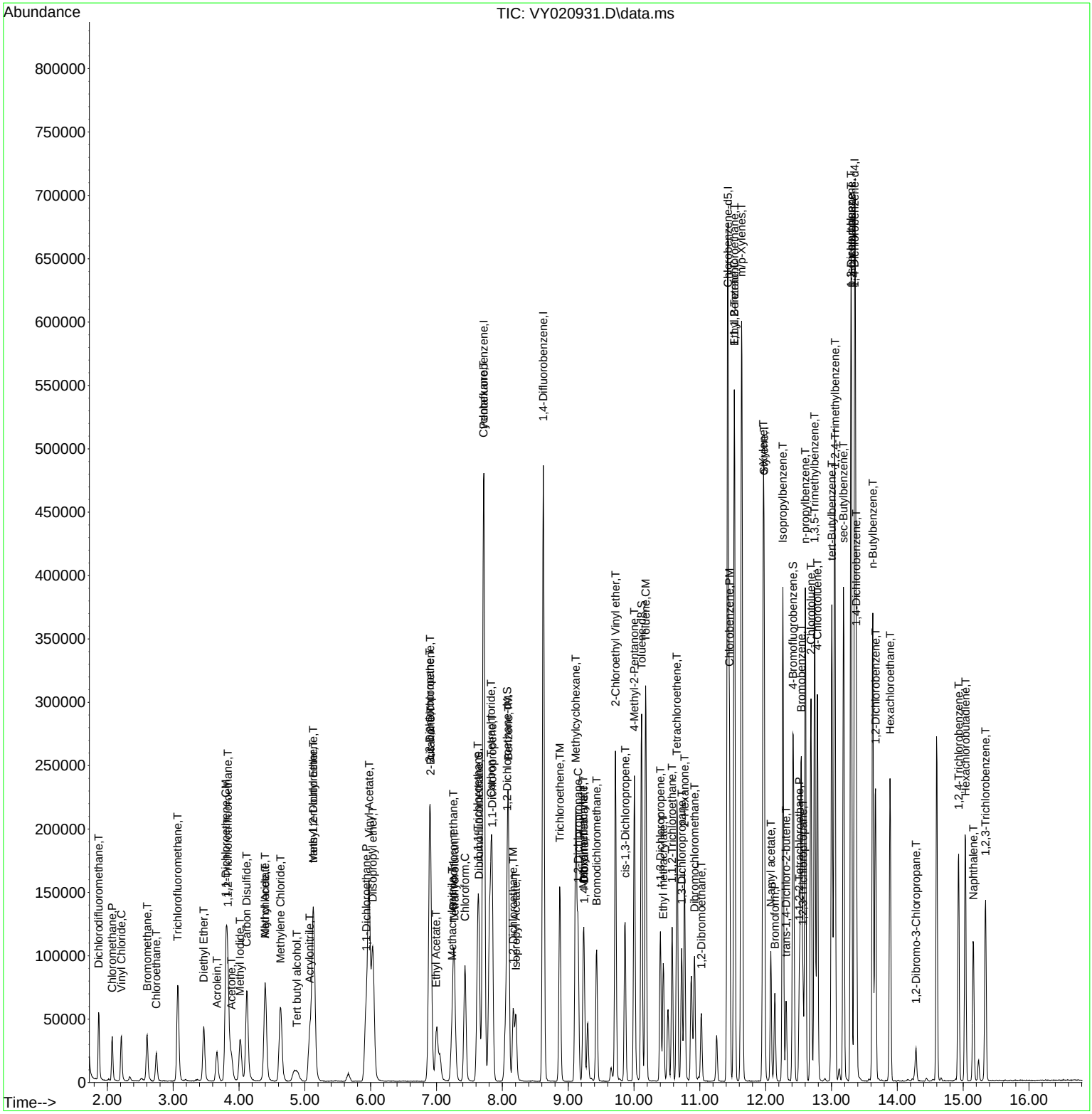
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020931.D
Acq On : 24 Jan 2025 15:36
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

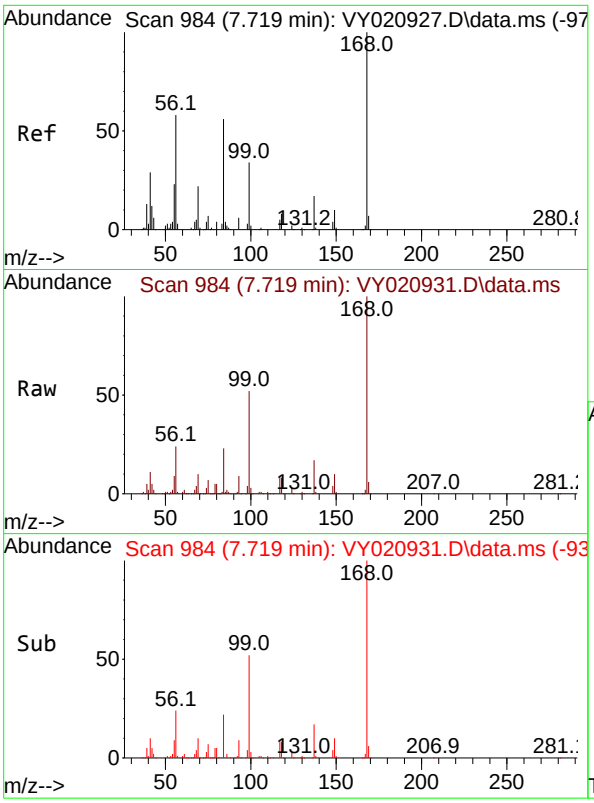
Quant Time: Jan 25 00:48:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

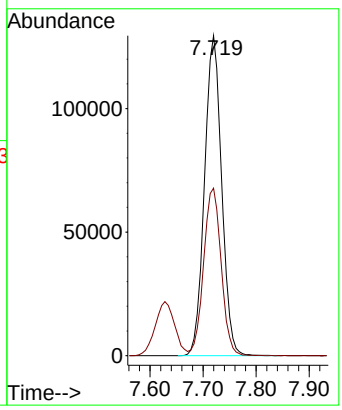
Tgt Ion:168 Resp: 28997

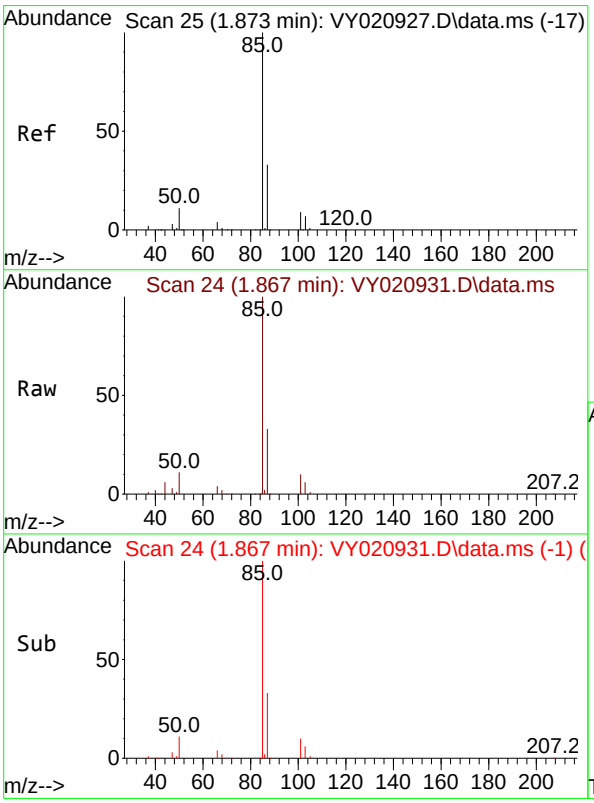
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 52.3 | 43.0 | 64.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

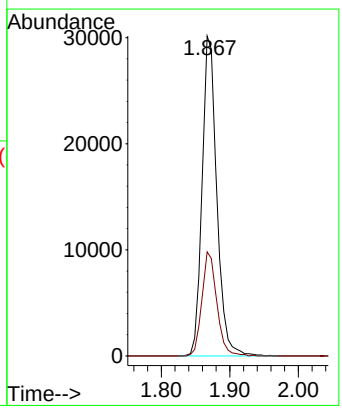


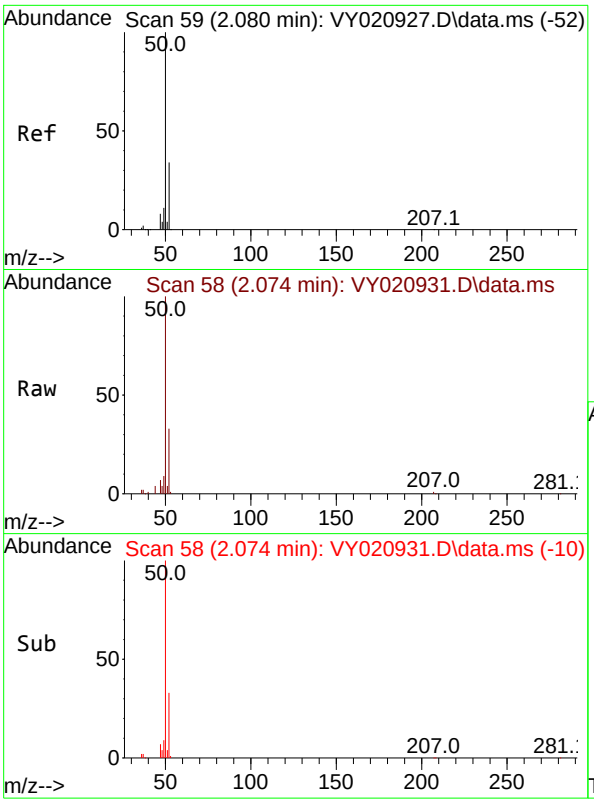




#2
Dichlorodifluoromethane
Concen: 20.539 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 85 Resp: 45047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 16.6 | 49.8 |






#3
Chloromethane
Concen: 20.102 ug/l
RT: 2.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

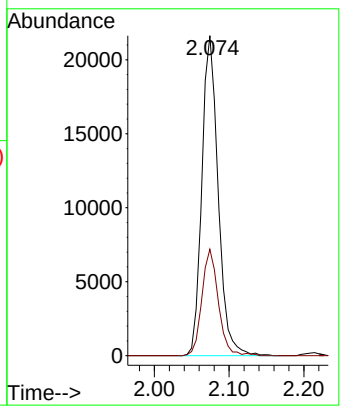
Tgt Ion: 50 Resp: 3279

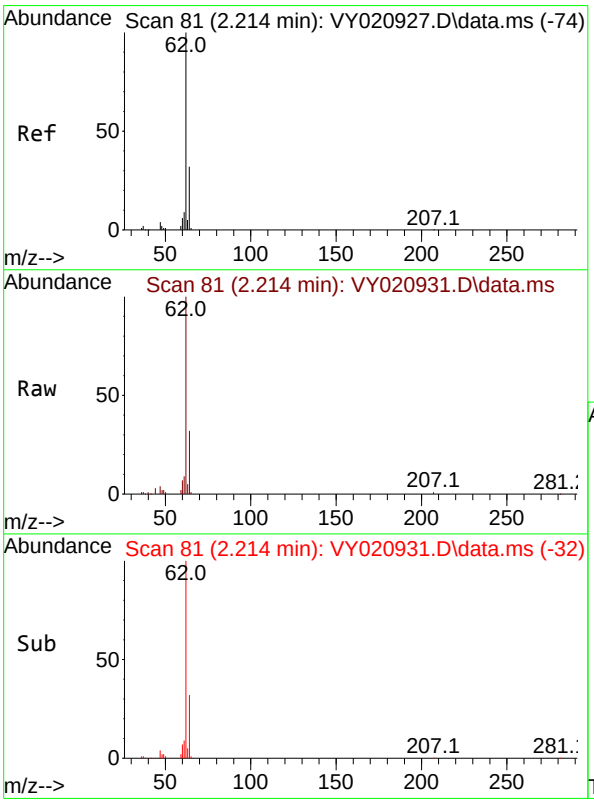
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.3 | 27.4 | 41.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

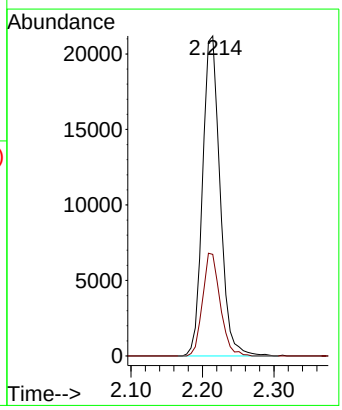


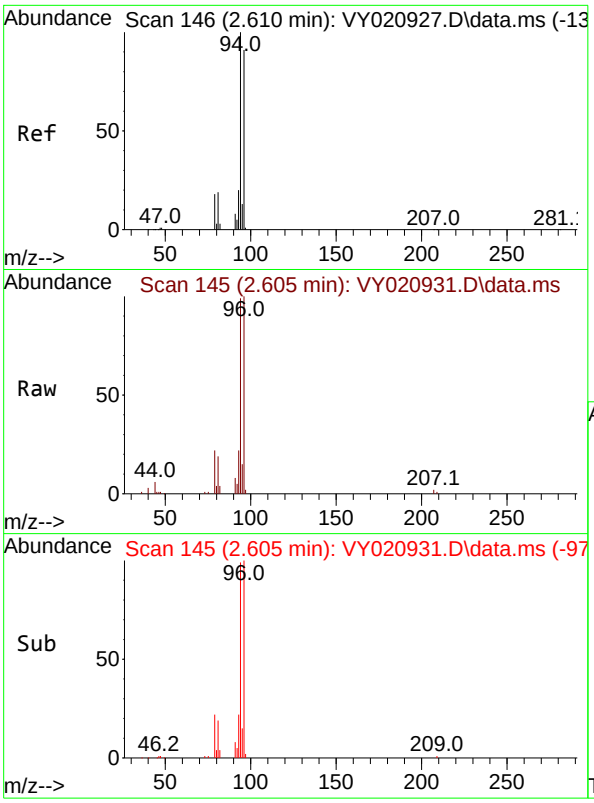




#4
Vinyl Chloride
Concen: 20.236 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 62 Resp: 35978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 25.7 | 38.5 |






#5
Bromomethane
Concen: 19.598 ug/l
RT: 2.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

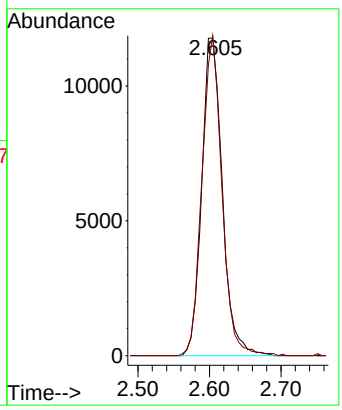
Tgt Ion: 94 Resp: 23600

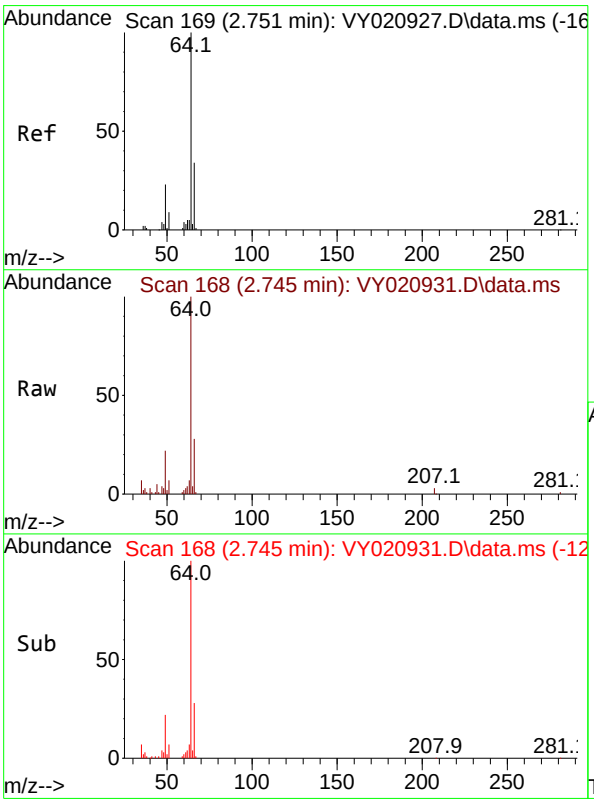
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 100.7 | 72.6 | 109.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

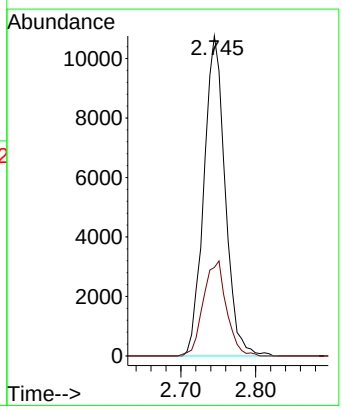


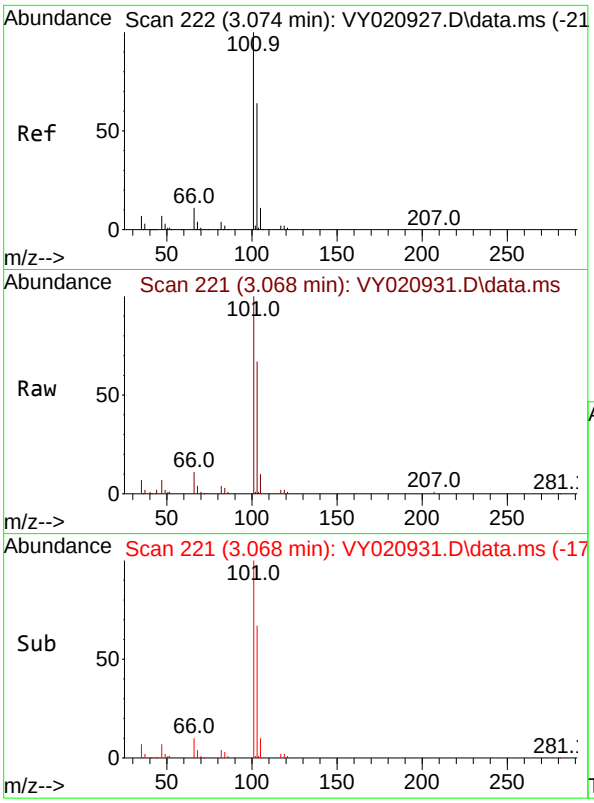




#6
Chloroethane
Concen: 20.394 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 64 Resp: 21272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 27.6 | 26.9 | 40.3 |






#7
Trichlorofluoromethane
Concen: 20.542 ug/l
RT: 3.068 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

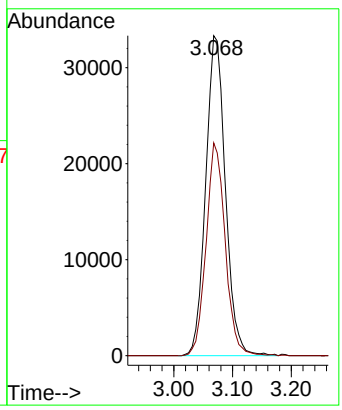
Tgt Ion:101 Resp: 7759

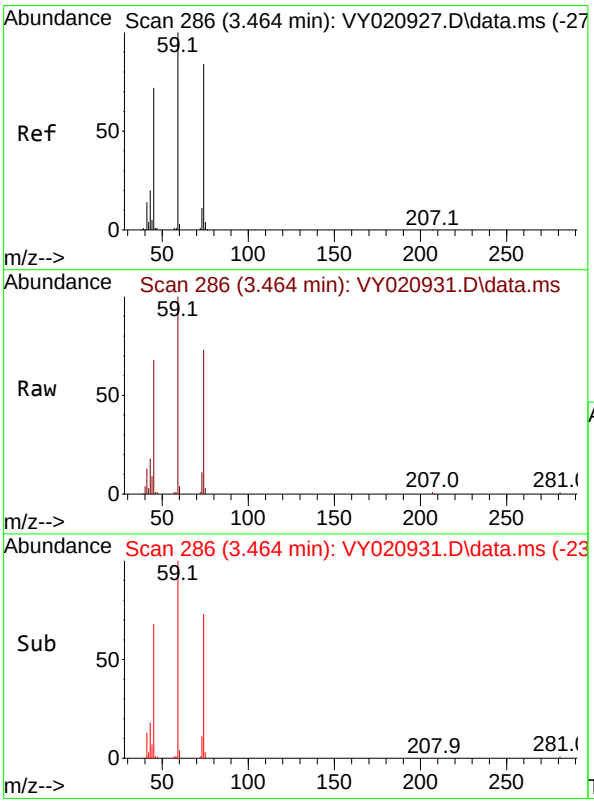
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.5 | 51.0 | 76.4 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

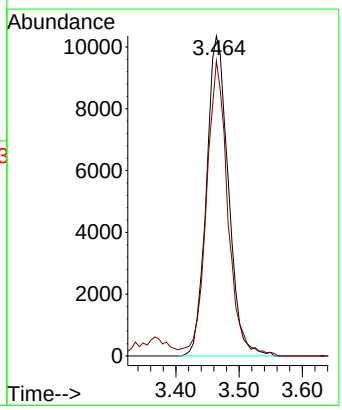


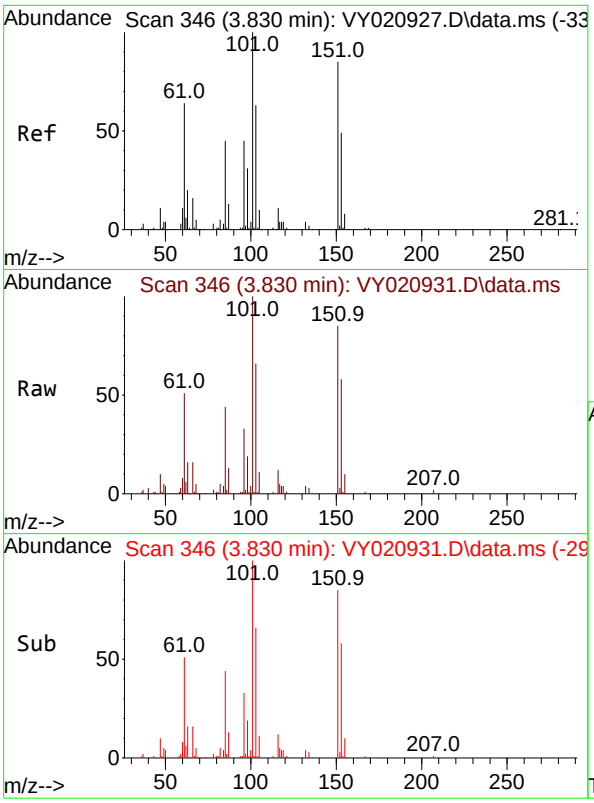




#8
Diethyl Ether
Concen: 21.400 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 74 Resp: 24845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.2 | 45.1 | 135.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.097 ug/l
RT: 3.830 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

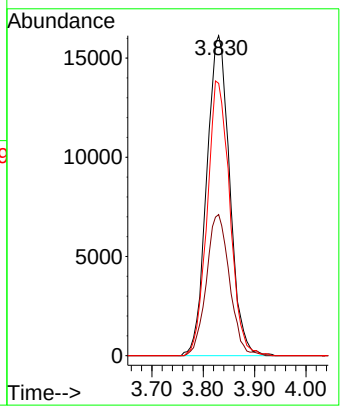
Tgt Ion:101 Resp: 5009

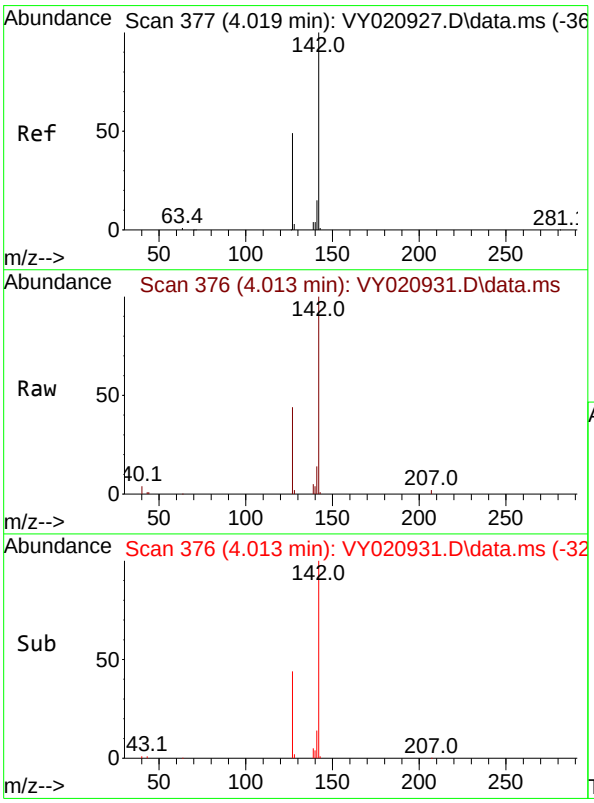
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.5 | 35.4 | 53.2 |
| 151 | 84.5 | 66.3 | 99.5 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

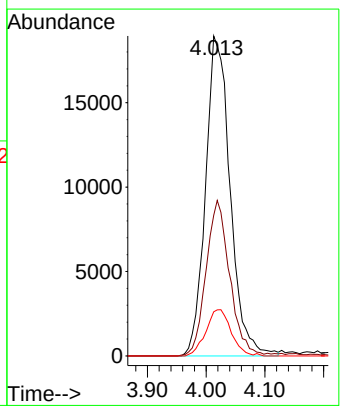


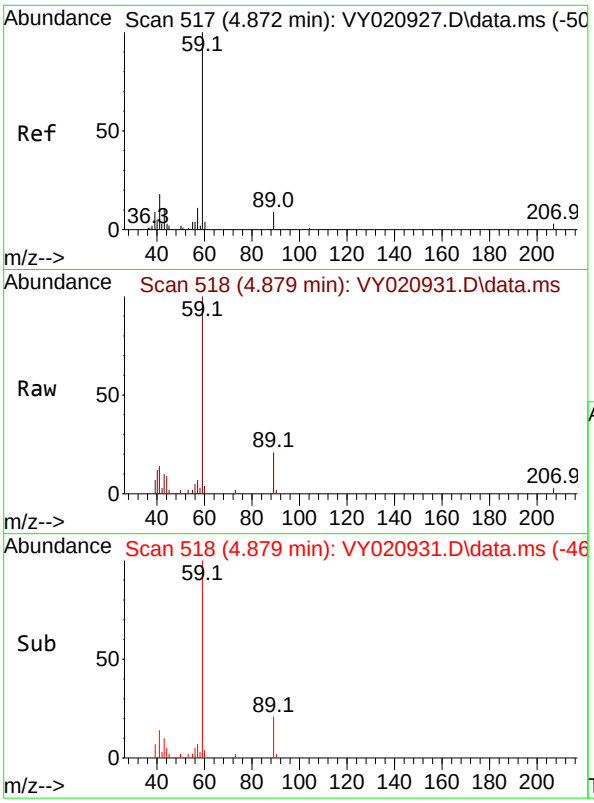




#10
Methyl Iodide
Concen: 18.588 ug/l
RT: 4.013 min Scan# 376
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:142 Resp: 55213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 47.1 | 37.3 | 55.9 |
| 141 | 14.9 | 11.4 | 17.2 |






#11
Tert butyl alcohol
Concen: 126.340 ug/l
RT: 4.879 min Scan# 5
Delta R.T. 0.007 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

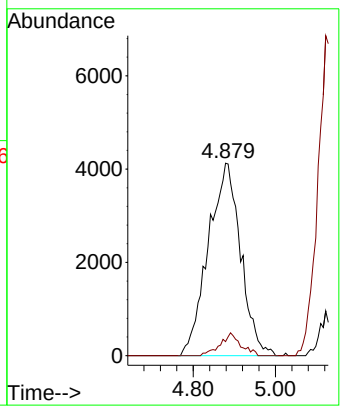
Tgt Ion: 59 Resp: 2254

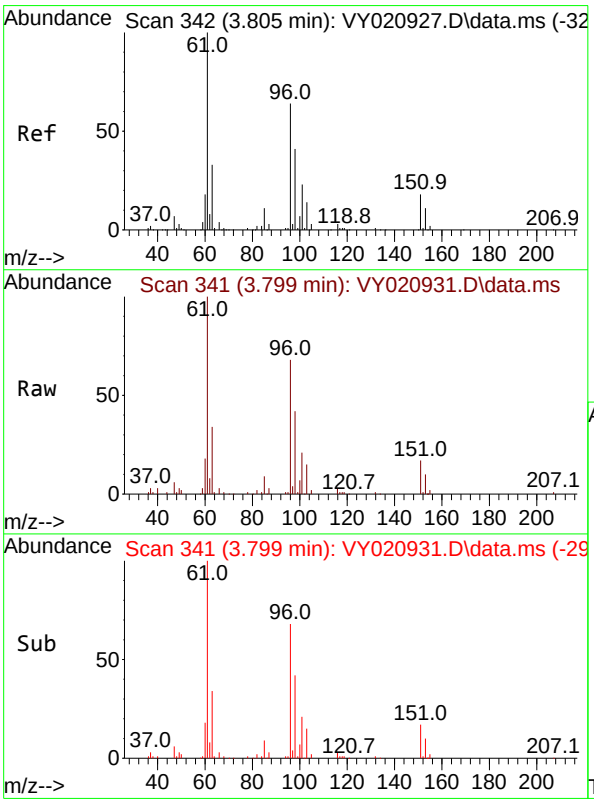
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 7.5 | 7.7 | 11.5 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

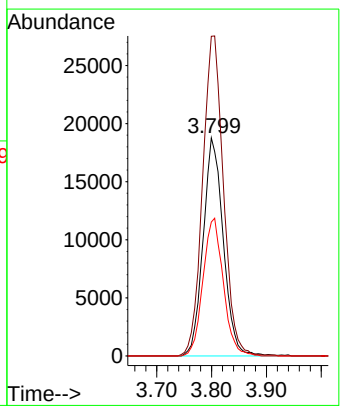


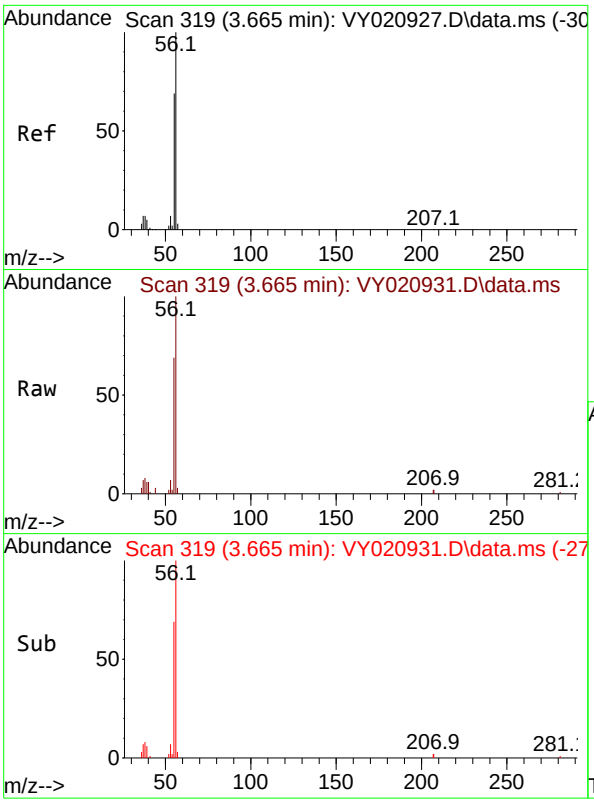




#12
1,1-Dichloroethene
Concen: 20.324 ug/l
RT: 3.799 min Scan# 341
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 96 Resp: 47840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 146.6 | 124.5 | 186.7 |
| 98 | 61.4 | 50.5 | 75.7 |






#13
Acrolein
Concen: 113.764 ug/l
RT: 3.665 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

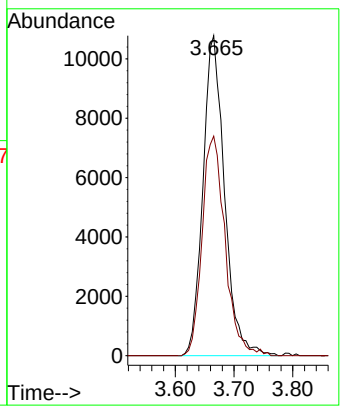
Tgt Ion: 56 Resp: 2752

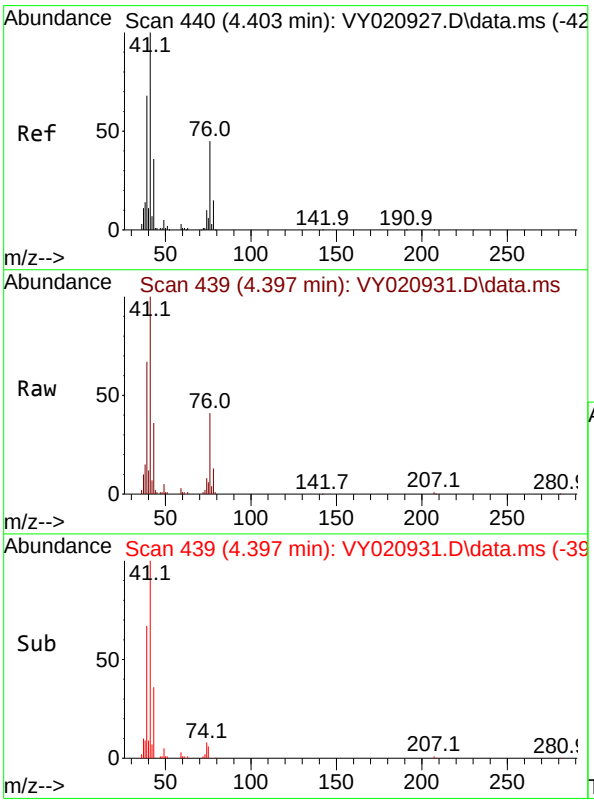
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.9 | 54.6 | 81.8 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

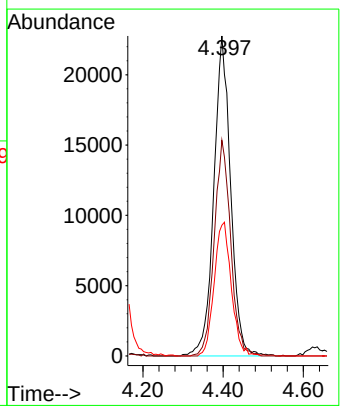


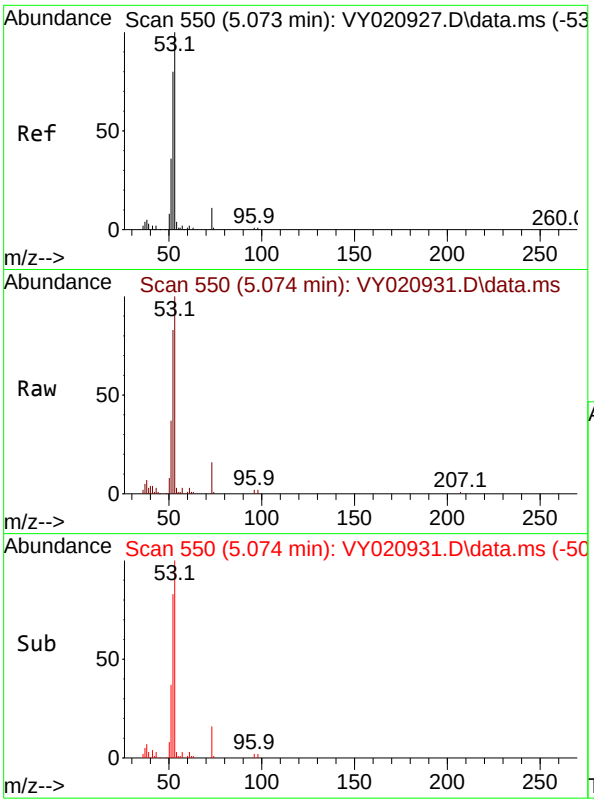




#14
Allyl chloride
Concen: 20.196 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 41 Resp: 66350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 65.8 | 53.8 | 80.6 |
| 76 | 42.5 | 34.2 | 51.4 |






#15
Acrylonitrile
Concen: 113.277 ug/l
RT: 5.074 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

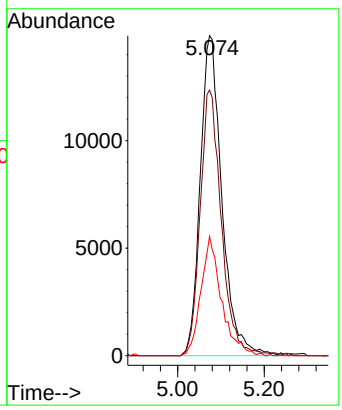
Tgt Ion: 53 Resp: 5169

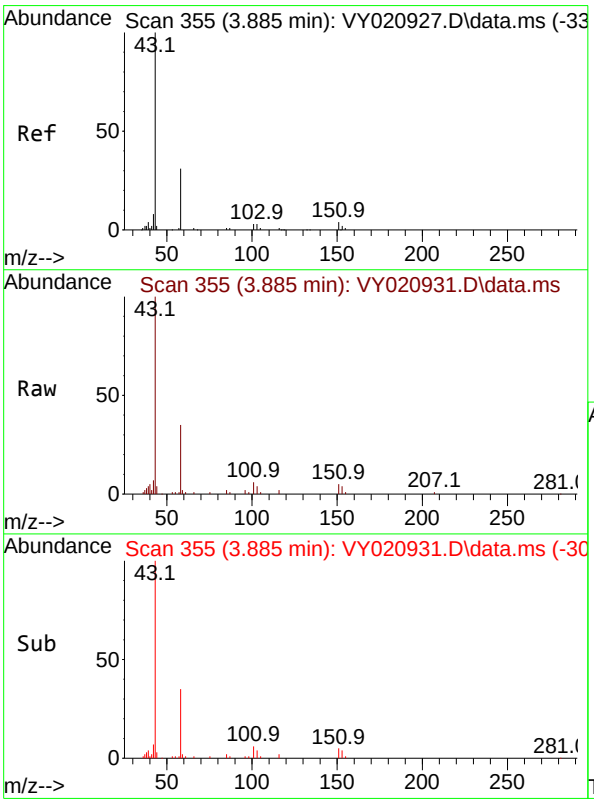
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.1 | 64.5 | 96.7 |
| 51 | 35.4 | 28.9 | 43.3 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

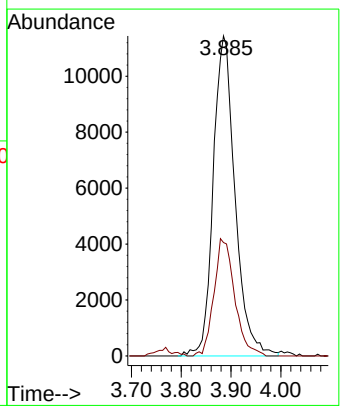


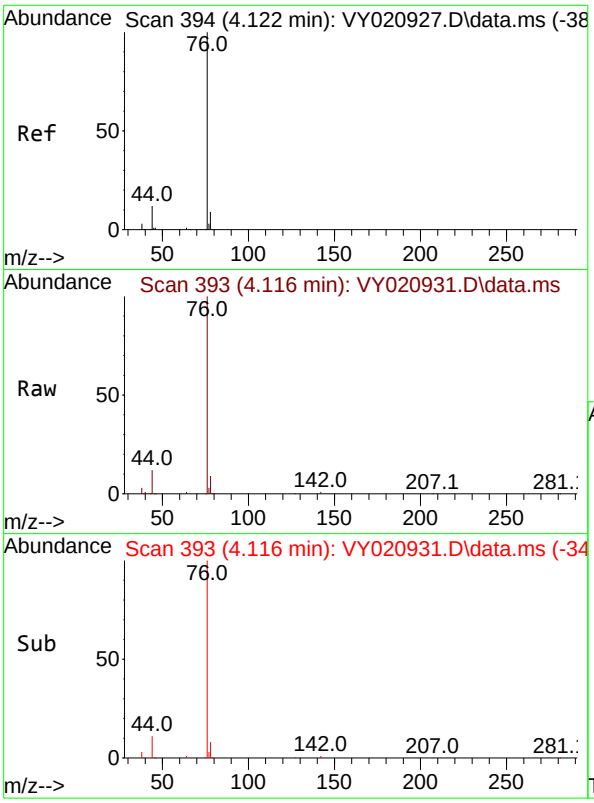




#16
Acetone
Concen: 110.950 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 43 Resp: 34755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.4 | 25.6 | 38.4 |






#17
Carbon Disulfide
Concen: 20.331 ug/l
RT: 4.116 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

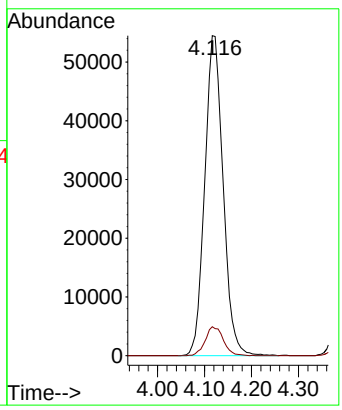
Tgt Ion: 76 Resp: 14779

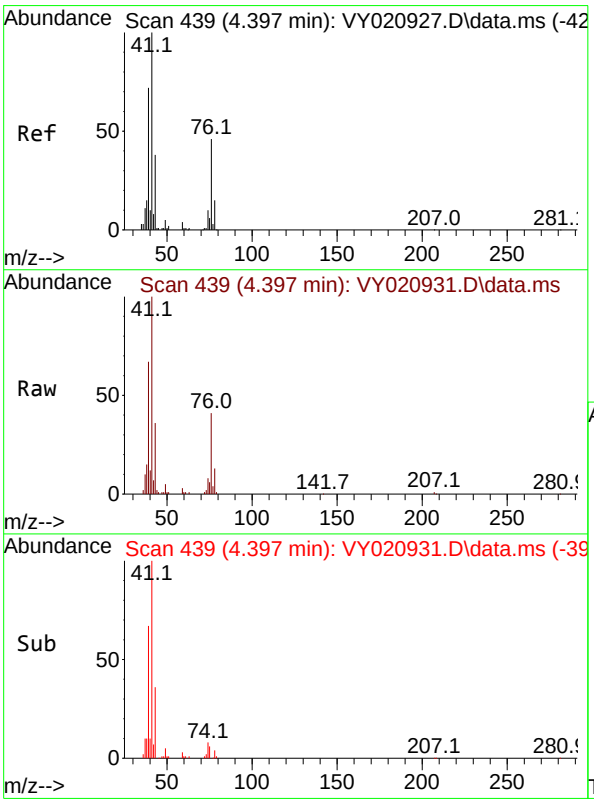
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.2 | 10.8 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

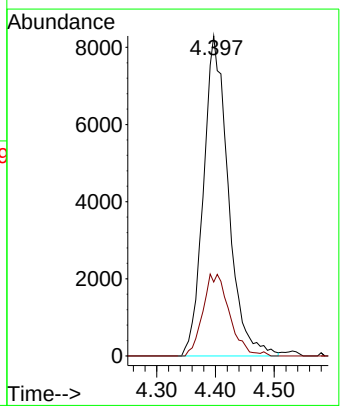


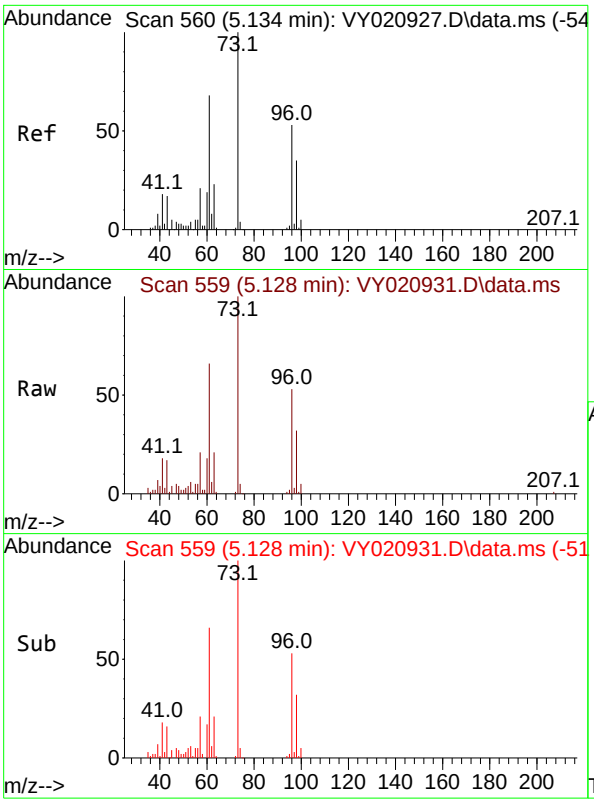




#18
Methyl Acetate
Concen: 21.539 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 43 Resp: 24374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.4 | 21.0 | 31.6 |






#19
Methyl tert-butyl Ether
Concen: 21.635 ug/l
RT: 5.128 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

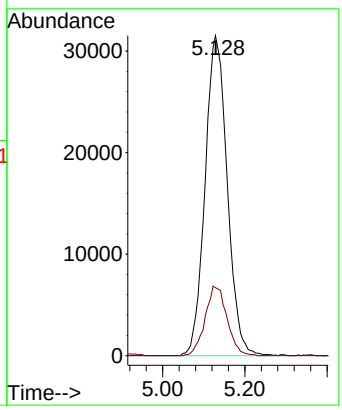
Tgt Ion: 73 Resp: 11795

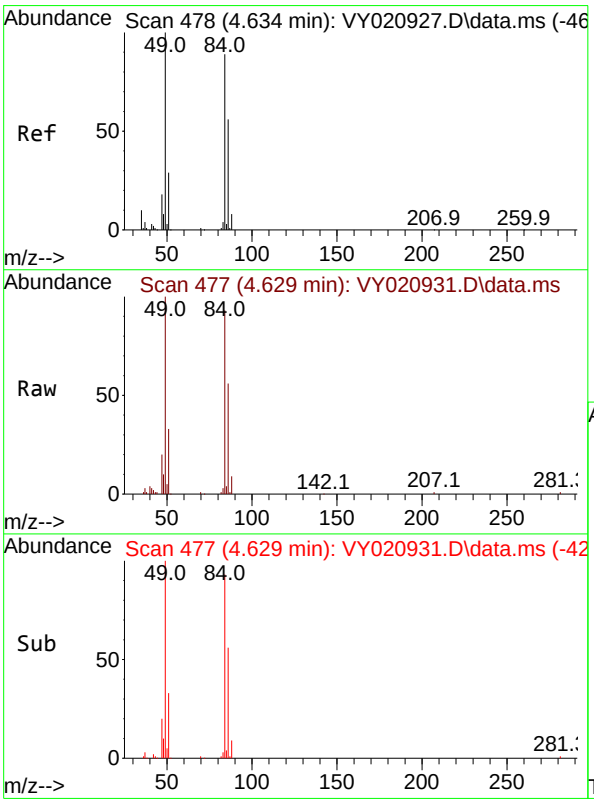
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.2 | 17.0 | 25.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

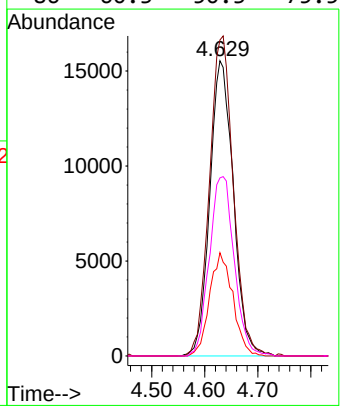


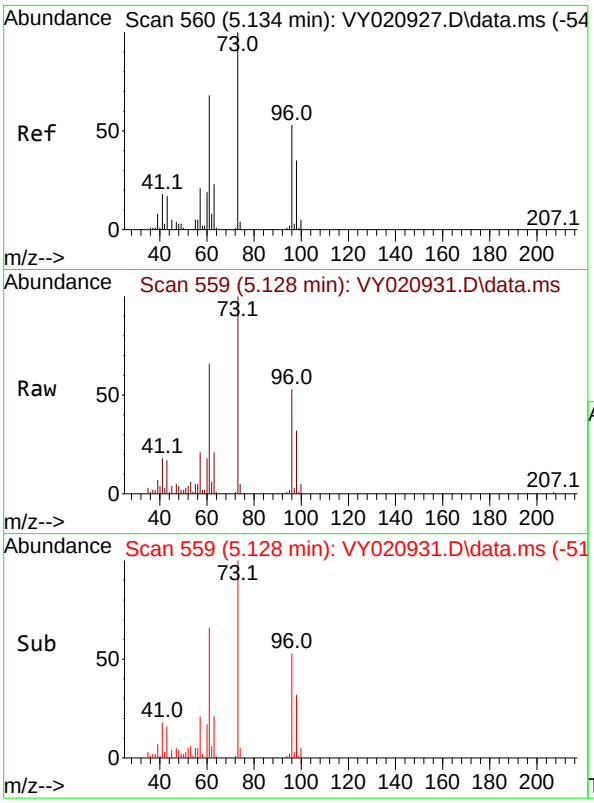




#20
Methylene Chloride
Concen: 20.562 ug/l
RT: 4.629 min Scan# 477
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 84 Resp: 47904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 107.1 | 90.3 | 135.5 |
| 51 | 34.9 | 26.6 | 39.8 |
| 86 | 60.3 | 50.3 | 75.5 |






#21
trans-1,2-Dichloroethene
Concen: 20.260 ug/l
RT: 5.128 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

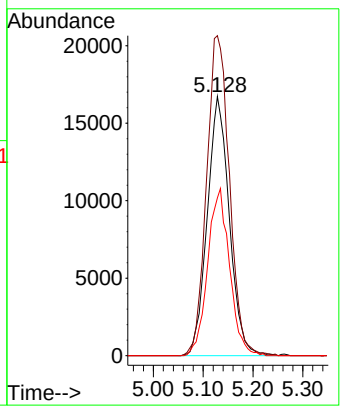
Tgt Ion: 96 Resp: 5141

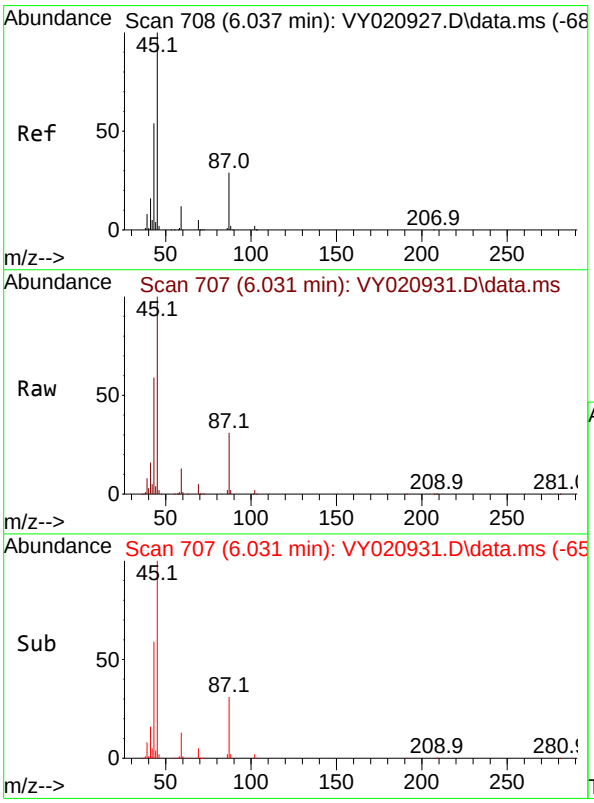
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 123.4 | 102.4 | 153.6 |
| 98 | 60.9 | 52.0 | 78.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

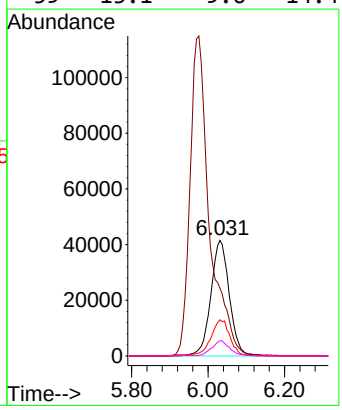


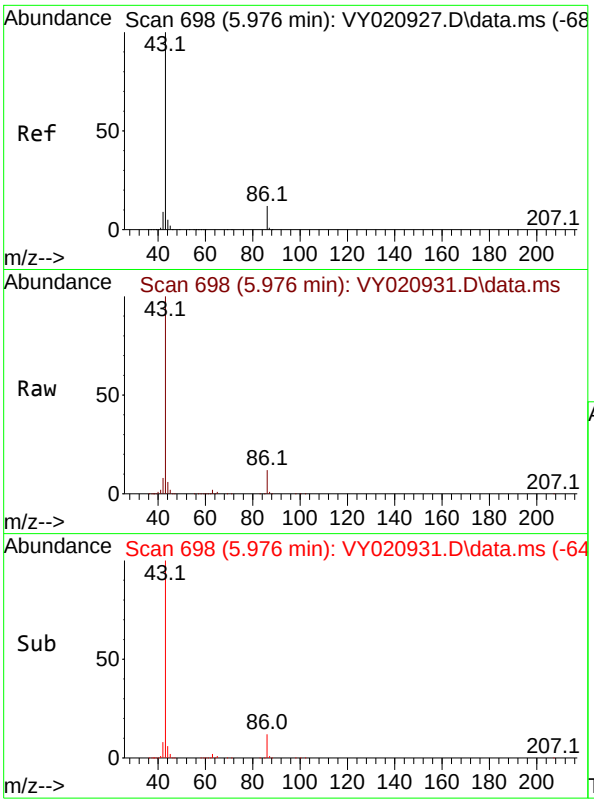




#22
Diisopropyl ether
Concen: 21.065 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 45 Resp: 139203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 58.2 | 43.2 | 64.8 |
| 87 | 31.4 | 23.4 | 35.0 |
| 59 | 13.1 | 9.6 | 14.4 |






#23
Vinyl Acetate
Concen: 111.184 ug/l
RT: 5.976 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

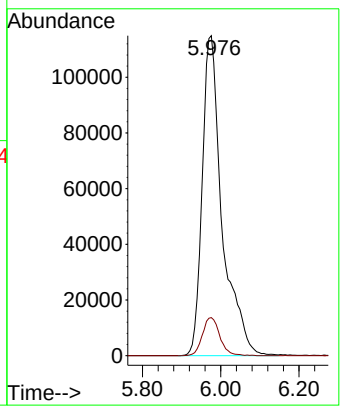
Tgt Ion: 43 Resp: 40663

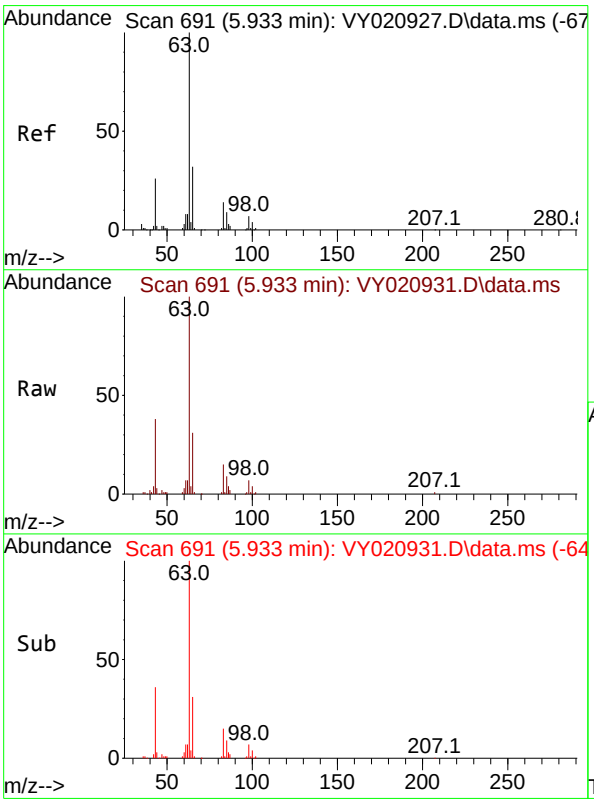
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.9 | 9.8 | 14.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

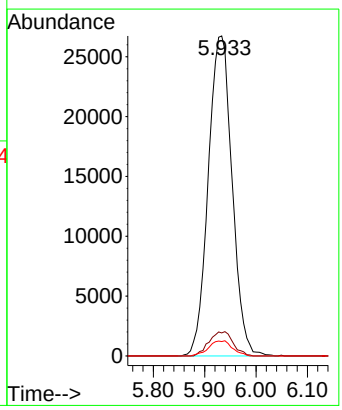


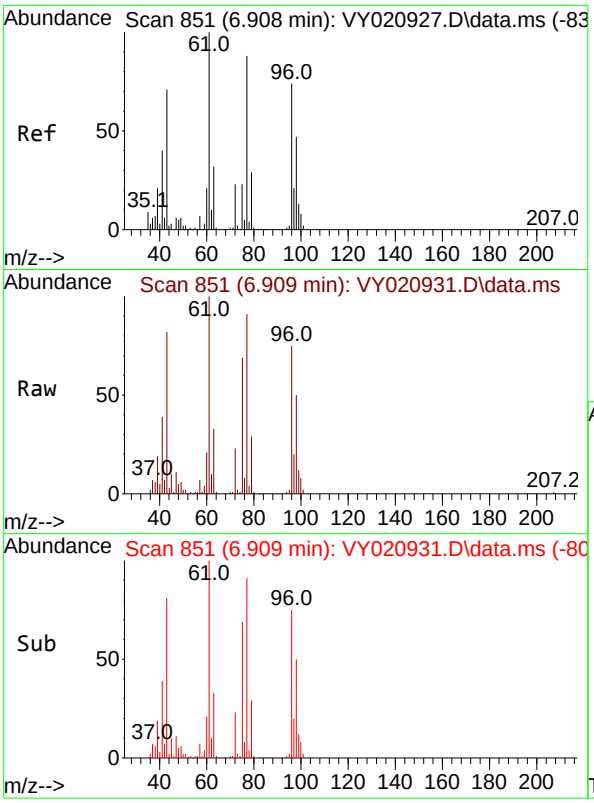




#24
1,1-Dichloroethane
Concen: 20.535 ug/l
RT: 5.933 min Scan# 691
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 63 Resp: 86019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.7 | 11.1 |
| 100 | 4.5 | 2.3 | 6.8 |






#25
2-Butanone
Concen: 113.931 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

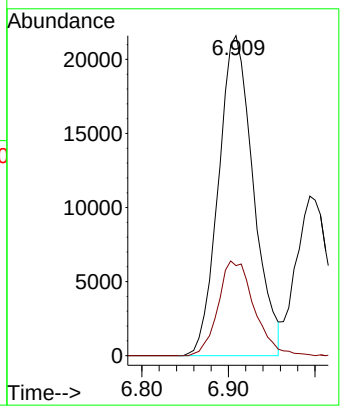
Tgt Ion: 43 Resp: 6045

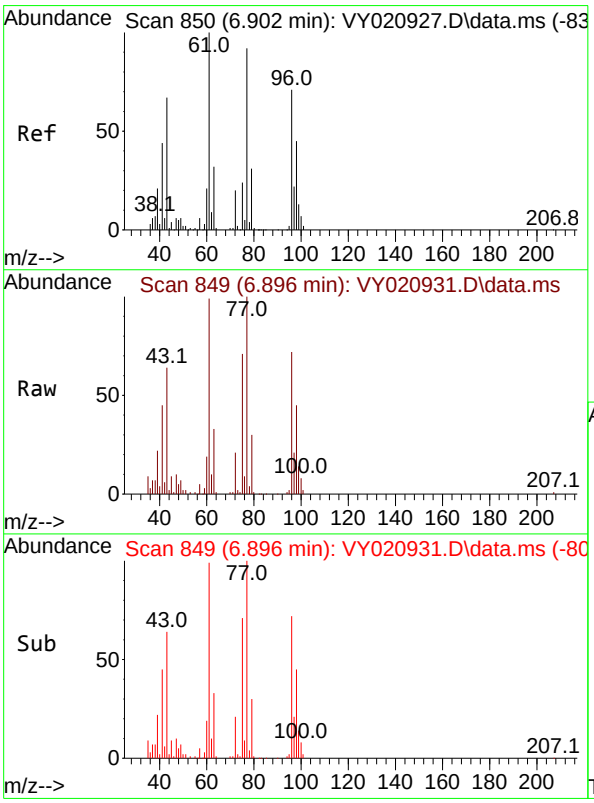
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.1 | 25.8 | 38.8 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

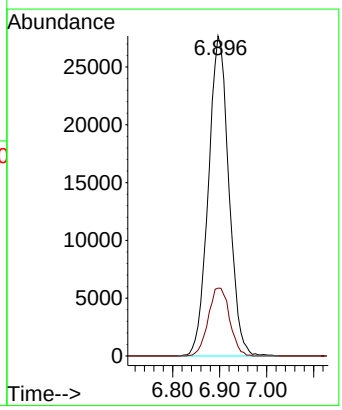


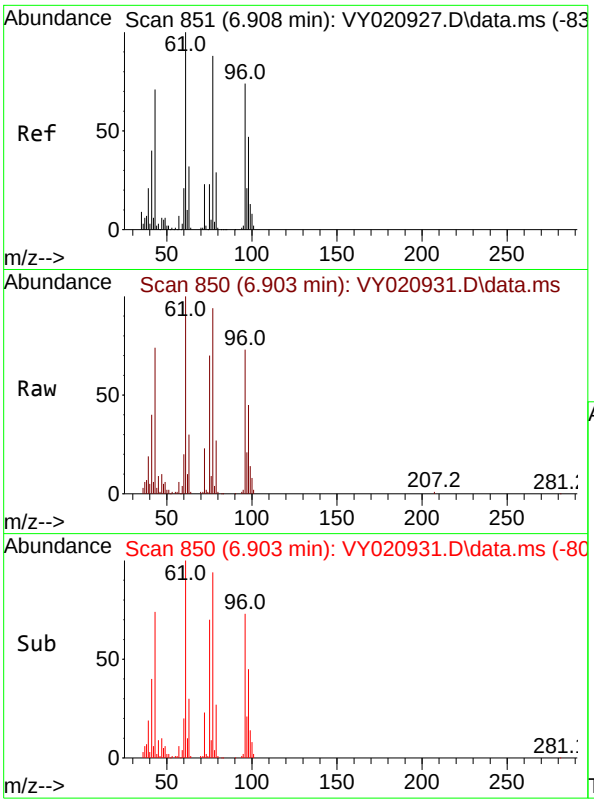




#26
2,2-Dichloropropane
Concen: 20.302 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 77 Resp: 83767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.1 | 11.7 | 35.1 |






#27
cis-1,2-Dichloroethene
Concen: 20.253 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 96 Resp: 5800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.9 | 0.0 | 275.2 |
| 98 | 64.6 | 0.0 | 129.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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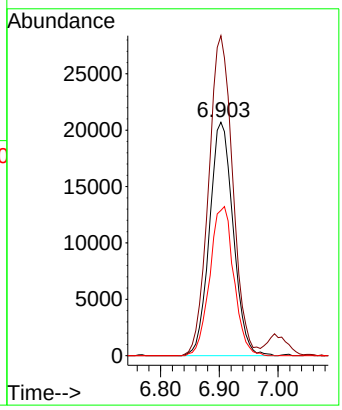
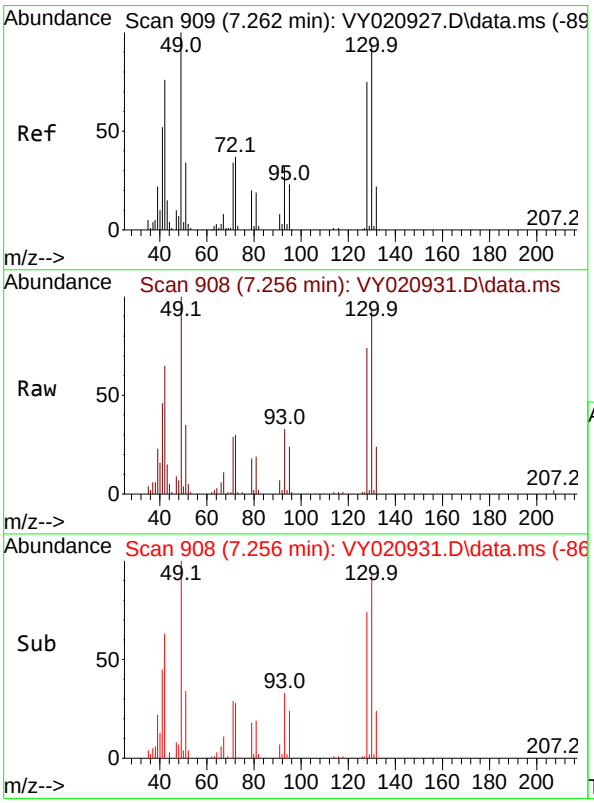
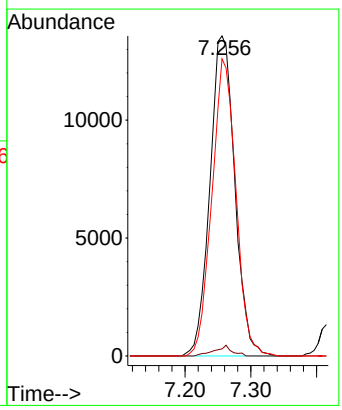


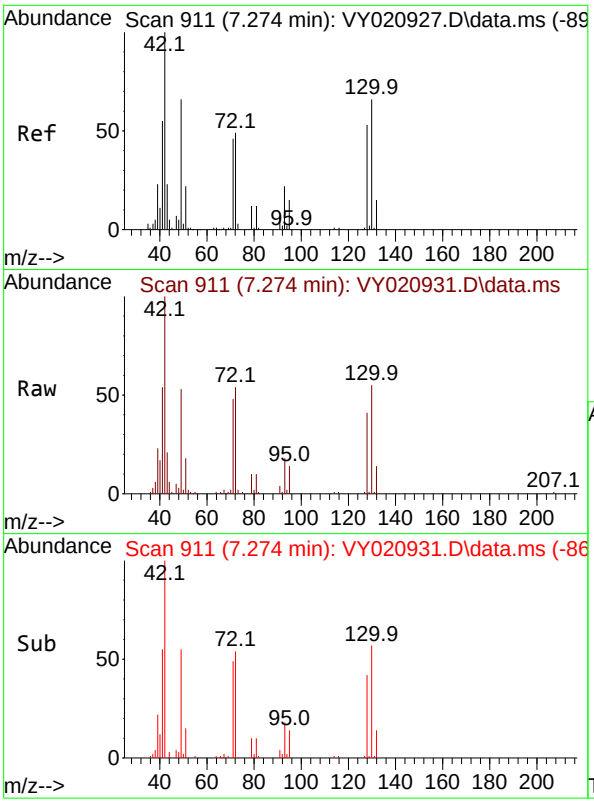




#28
Bromochloromethane
Concen: 21.221 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 49 Resp: 35777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.3 | 0.0 | 4.6 |
| 130 | 89.4 | 72.6 | 109.0 |






#29
Tetrahydrofuran
Concen: 114.246 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

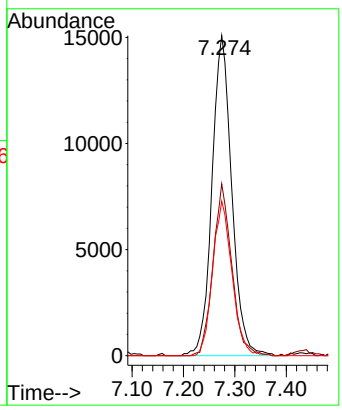
Tgt Ion: 42 Resp: 4040

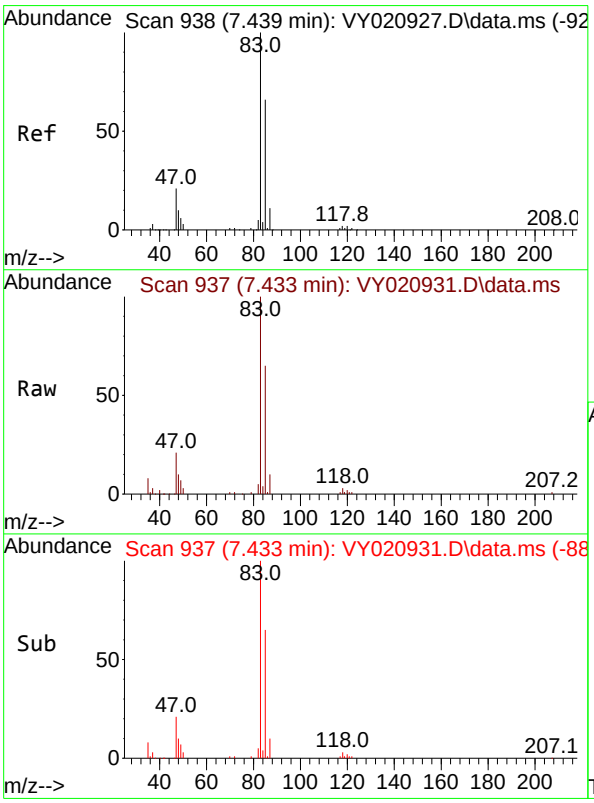
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 50.8 | 38.8 | 58.2 |
| 71 | 47.3 | 36.4 | 54.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

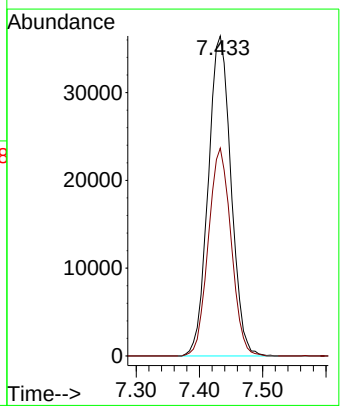


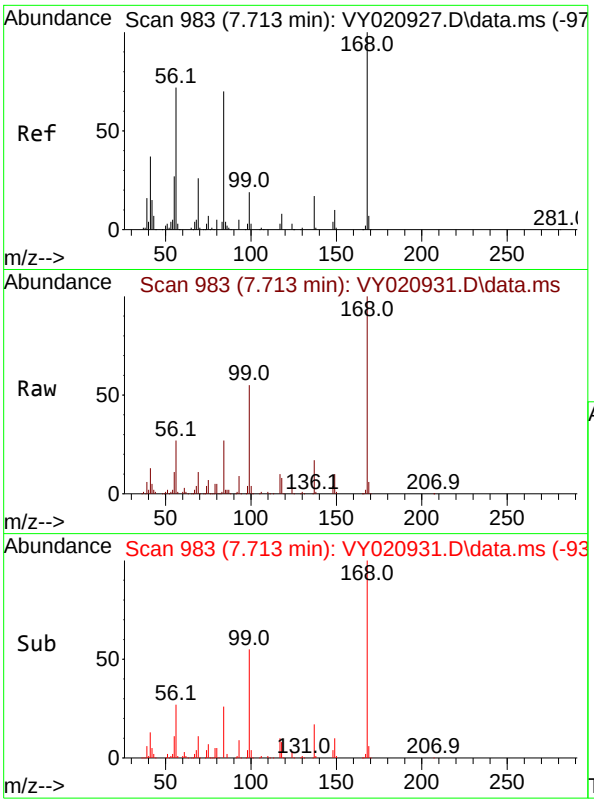




#30
Chloroform
Concen: 20.573 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 83 Resp: 91212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.9 | 53.0 | 79.4 |






#31
Cyclohexane
Concen: 20.120 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

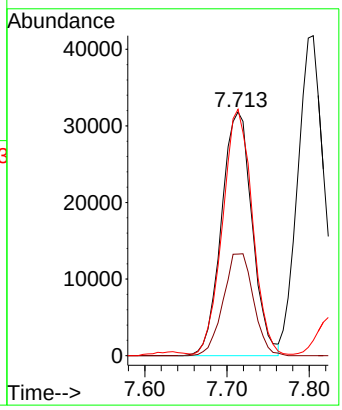
Tgt Ion: 56 Resp: 8283

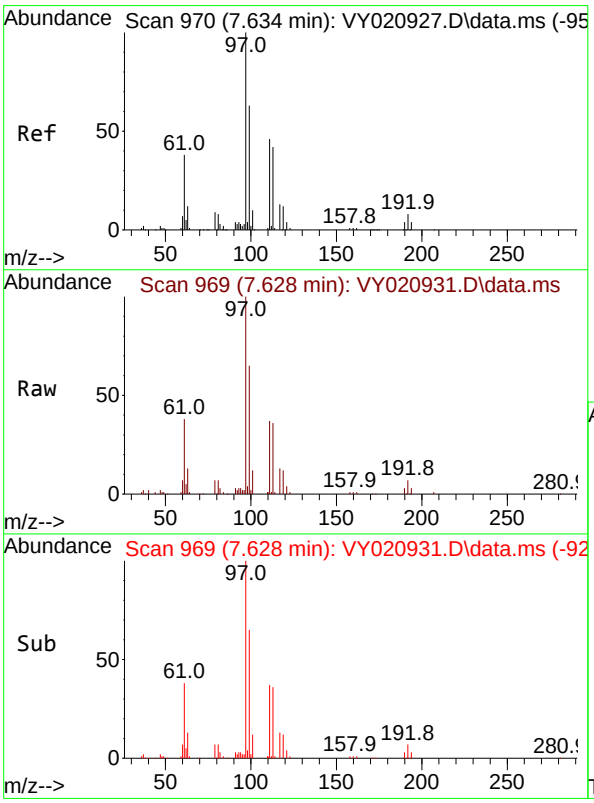
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 41.7 | 28.7 | 43.1 |
| 84 | 99.8 | 77.4 | 116.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

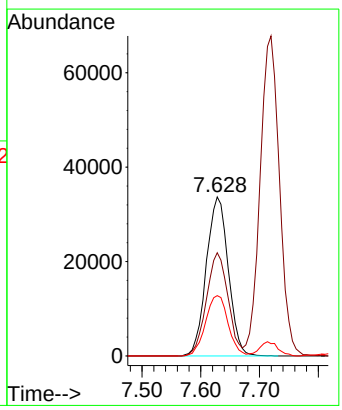


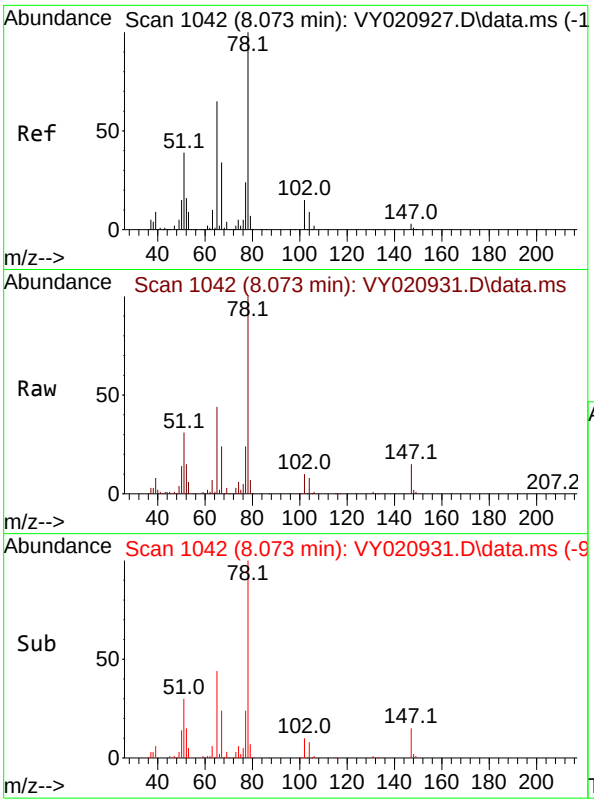




#32
1,1,1-Trichloroethane
Concen: 20.322 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 97 Resp: 87395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 51.7 | 77.5 |
| 61 | 39.0 | 30.8 | 46.2 |






#33
1,2-Dichloroethane-d4
Concen: 20.515 ug/l
RT: 8.073 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

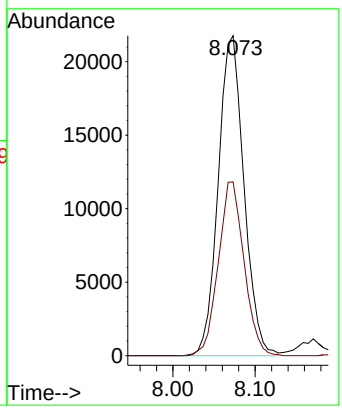
Tgt Ion: 65 Resp: 4743(

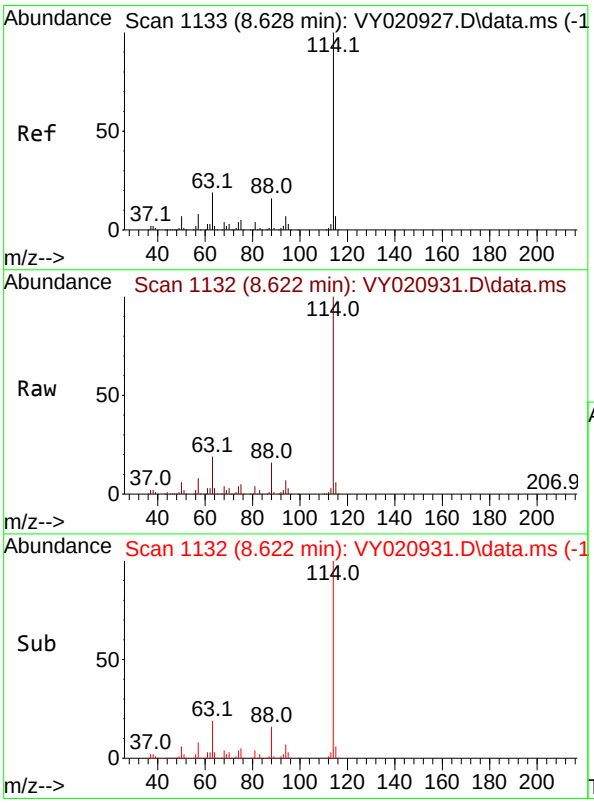
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.4 | 0.0 | 105.8 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

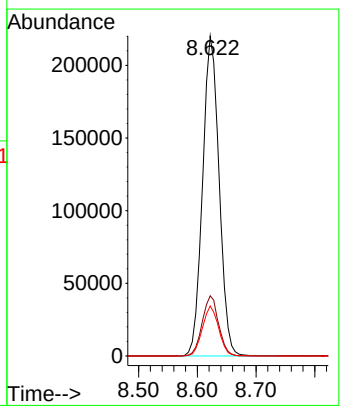


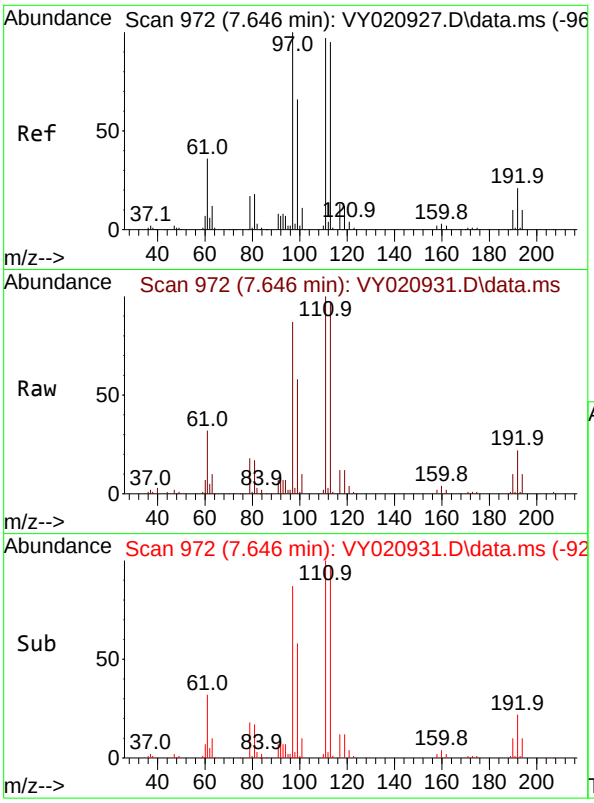




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:114 Resp: 430487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.8 | 0.0 | 38.4 |
| 88 | 15.6 | 0.0 | 31.6 |






#35
Dibromofluoromethane
Concen: 19.978 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:113 Resp: 4937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.7 | 82.3 | 123.5 |
| 192 | 22.3 | 17.4 | 26.2 |

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

**Manual Integrations**
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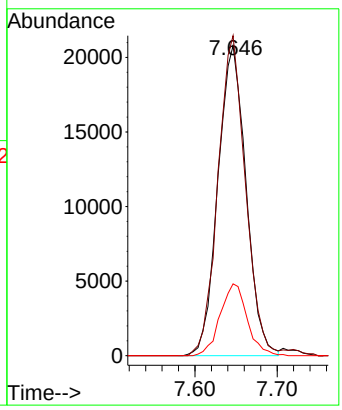
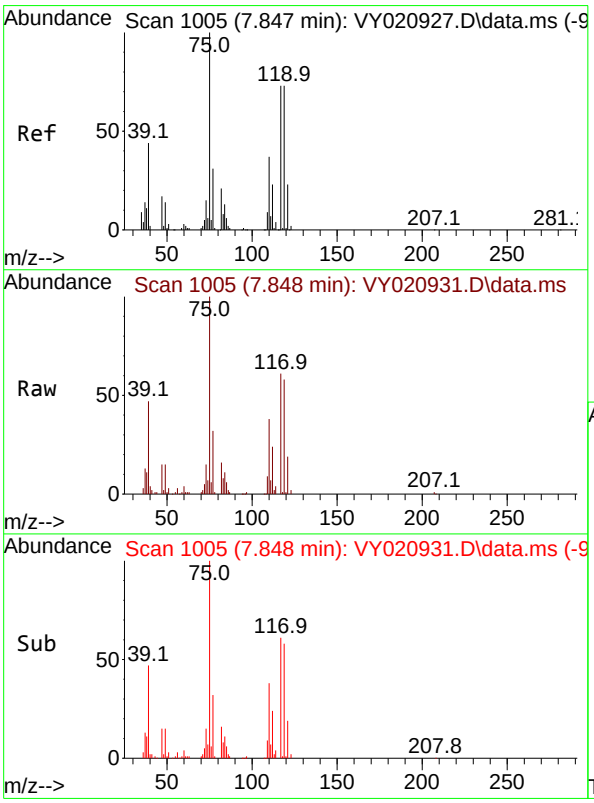
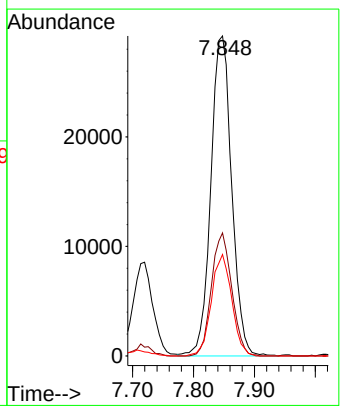


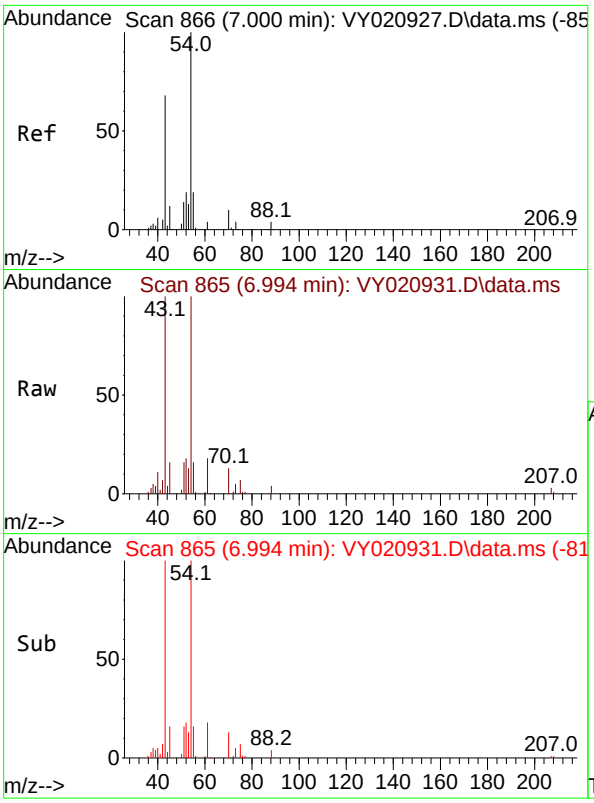




#36
1,1-Dichloropropene
Concen: 20.174 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 75 Resp: 69611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.4 | 18.5 | 55.5 |
| 77 | 31.0 | 25.0 | 37.4 |






#37
Ethyl Acetate
Concen: 23.025 ug/l
RT: 6.994 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 43 Resp: 3082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.0 | 12.1 | 18.1 |
| 70 | 11.5 | 9.5 | 14.3 |

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

**Manual Integrations**
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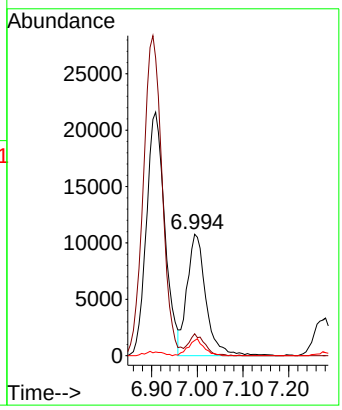
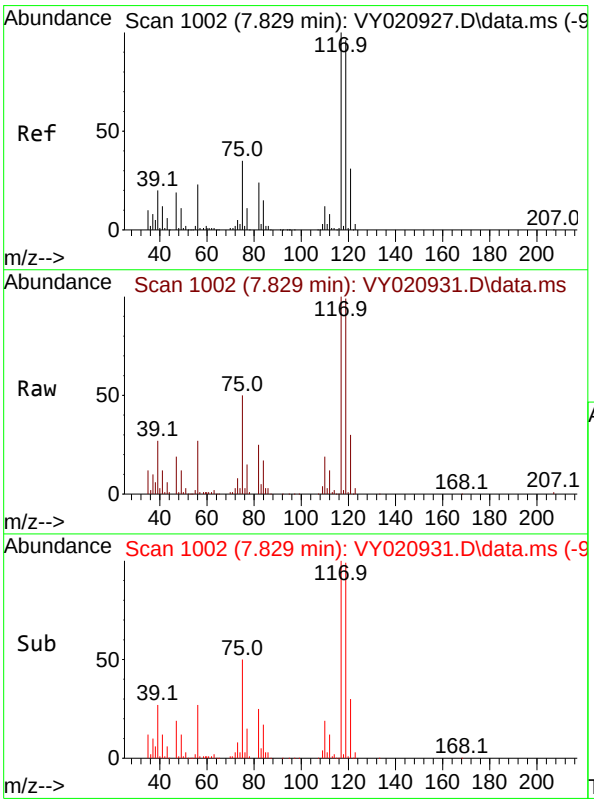
Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

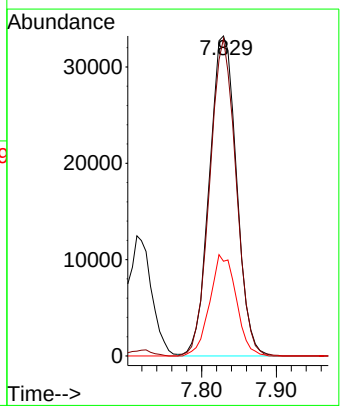


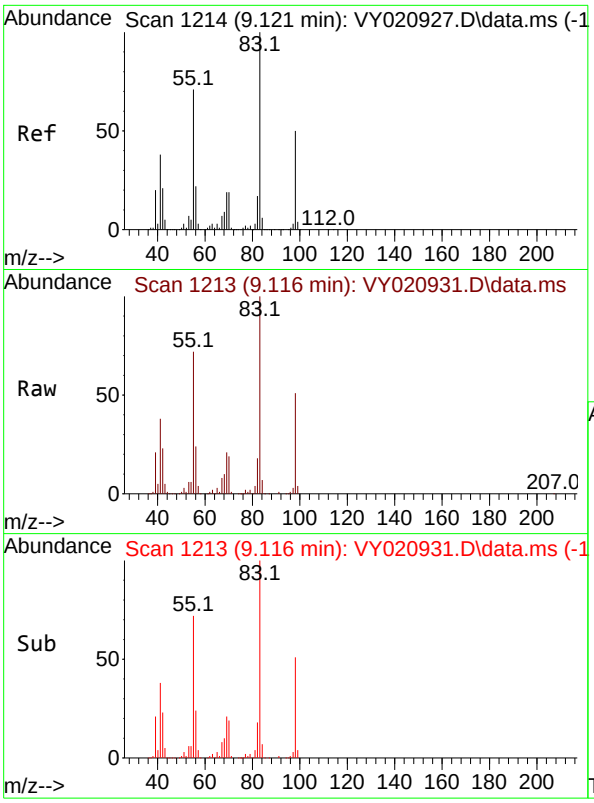




#38
Carbon Tetrachloride
Concen: 20.167 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:117 Resp: 83916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 99.2 | 76.5 | 114.7 |
| 121 | 29.6 | 25.0 | 37.4 |






#39
Methylcyclohexane
Concen: 20.091 ug/l
RT: 9.116 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 83 Resp: 9385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 71.7 | 57.0 | 85.4 |
| 98 | 50.9 | 40.1 | 60.1 |

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

**Manual Integrations**
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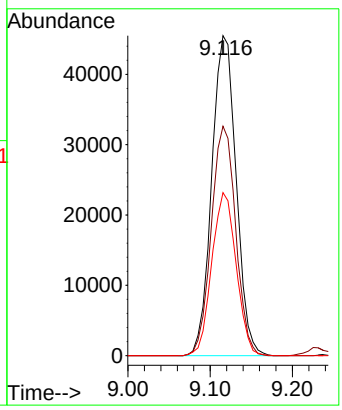
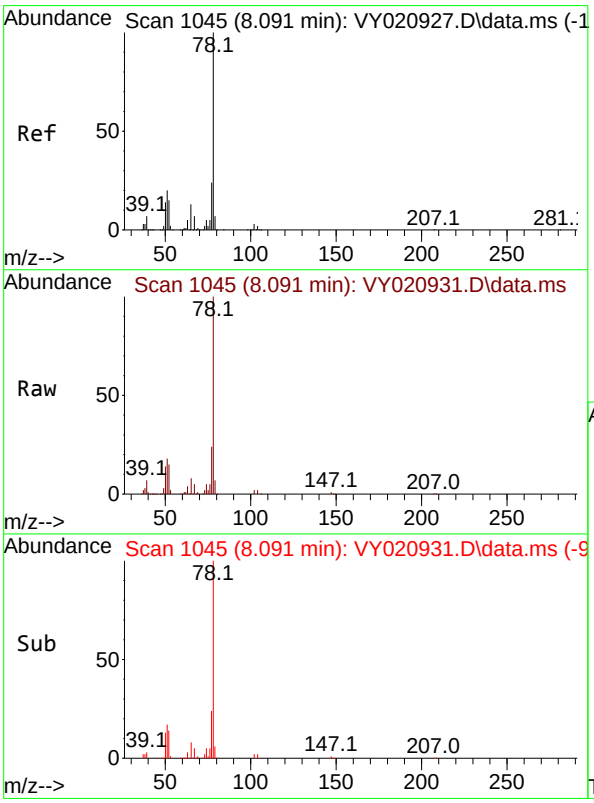
Supervised By :Mahesh Dadoda 01/27/2025

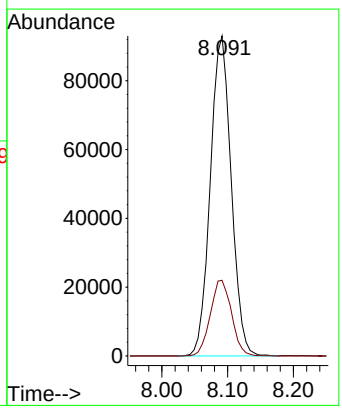


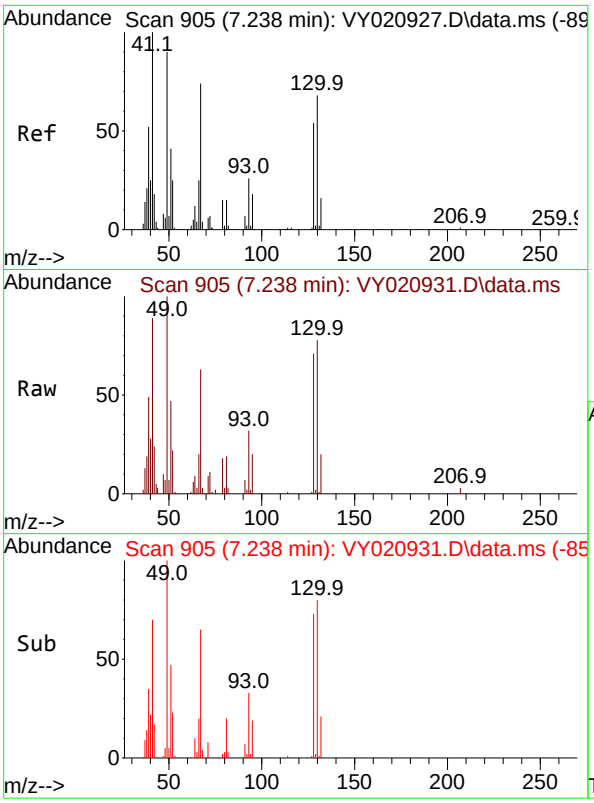




#40
Benzene
Concen: 20.364 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 78 Resp: 206141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 23.494 ug/l
RT: 7.238 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

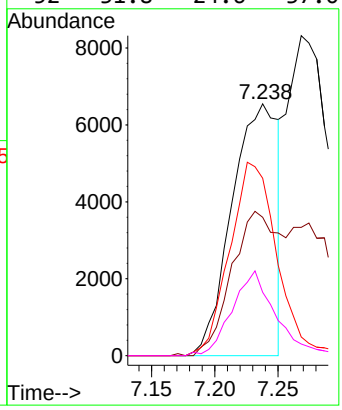
Tgt Ion: 41 Resp: 1661

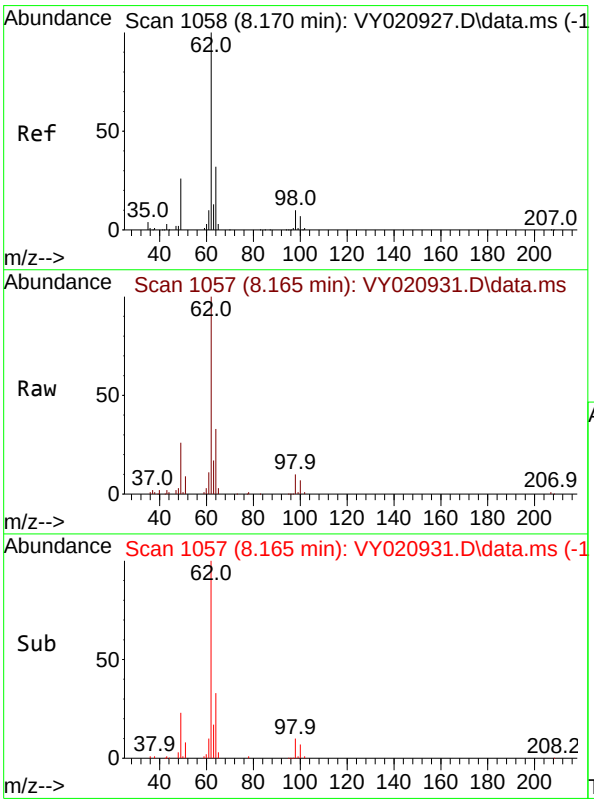
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 62.0 | 46.4 | 69.6 |
| 67 | 78.7 | 66.7 | 100.1 |
| 52 | 31.8 | 24.6 | 37.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

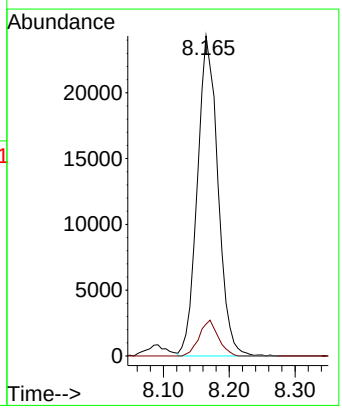


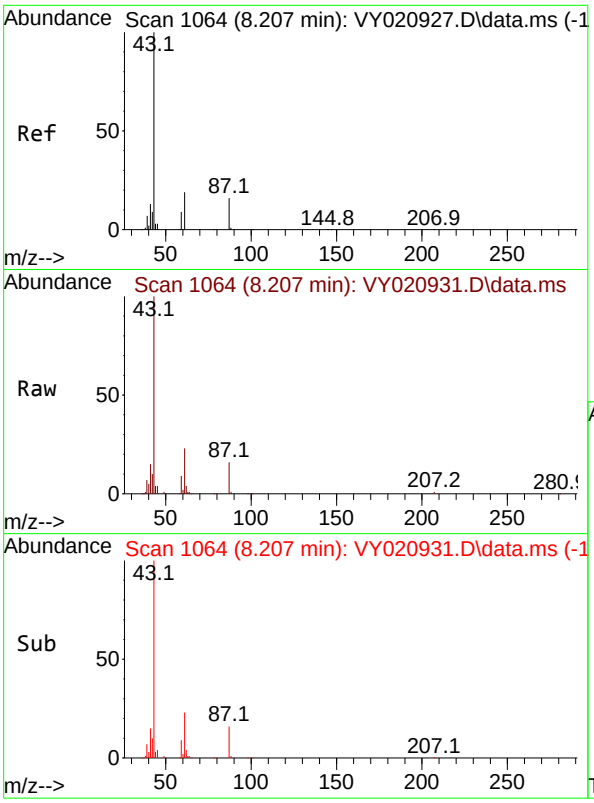




#42
1,2-Dichloroethane
Concen: 20.967 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 62 Resp: 52811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.4 | 0.0 | 19.8 |






#43
Isopropyl Acetate
Concen: 22.188 ug/l
RT: 8.207 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 43 Resp: 5632(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 32.6 | 26.0 | 39.0 |
| 87 | 16.1 | 12.4 | 18.6 |

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

**Manual Integrations**
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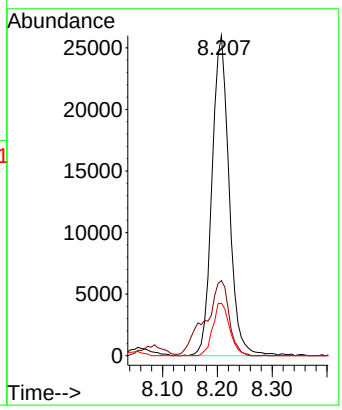
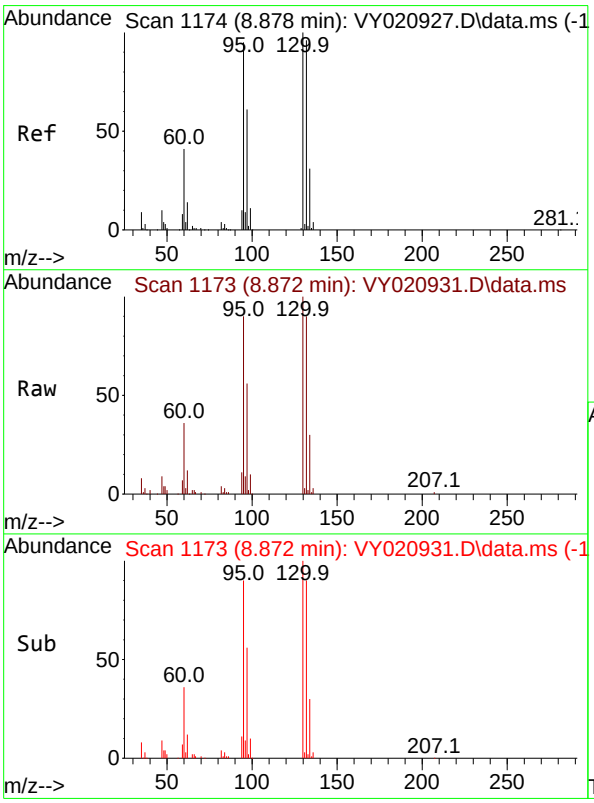
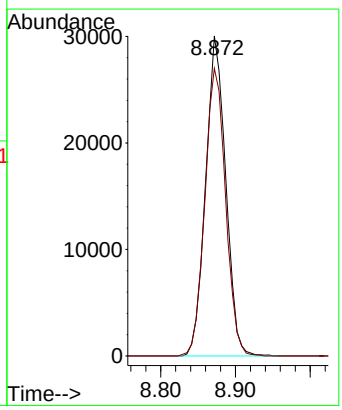


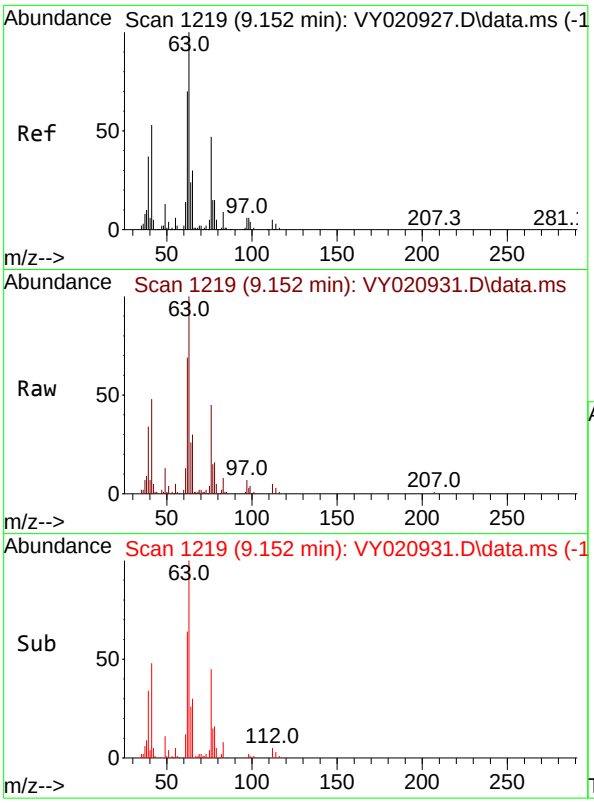




#44
Trichloroethene
Concen: 20.439 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:130 Resp: 56209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 89.8 | 0.0 | 189.4 |






#45
1,2-Dichloropropane
Concen: 20.564 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 63 Resp: 4594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.2 | 23.9 | 35.9 |

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

**Manual Integrations**
**APPROVED**

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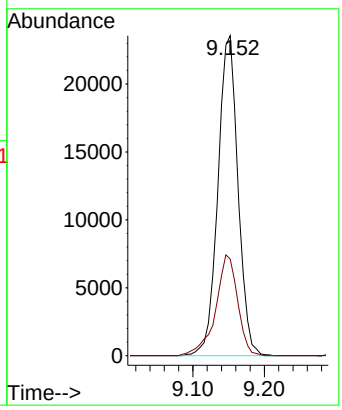
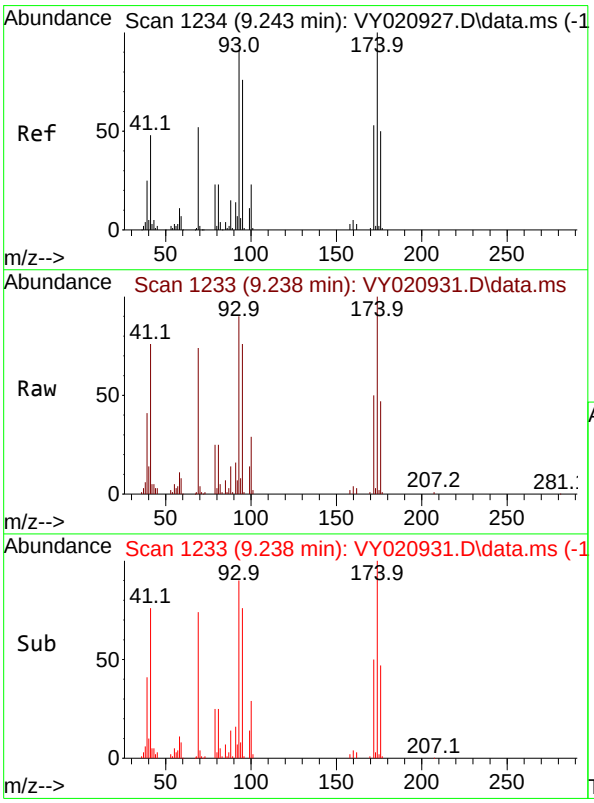
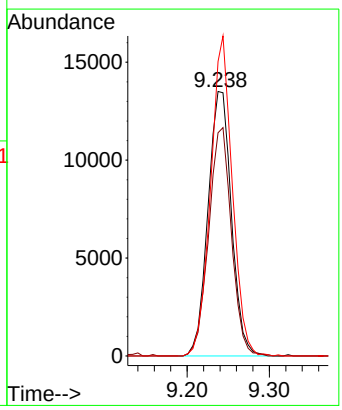


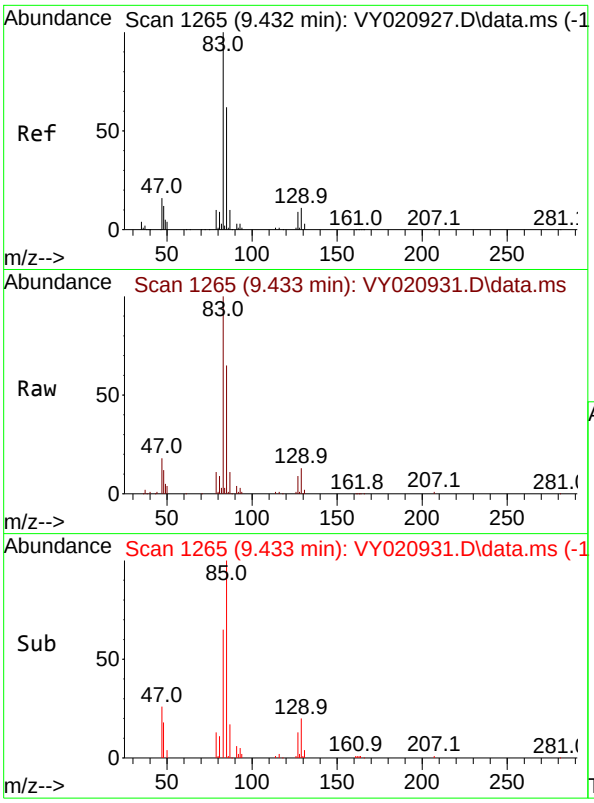




#46
Dibromomethane
Concen: 21.044 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 93 Resp: 26732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.9 | 66.2 | 99.2 |
| 174 | 112.2 | 87.0 | 130.4 |






#47
Bromodichloromethane
Concen: 20.301 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 83 Resp: 6861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.3 | 49.3 | 73.9 |
| 127 | 8.7 | 7.4 | 11.0 |

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

**Manual Integrations**
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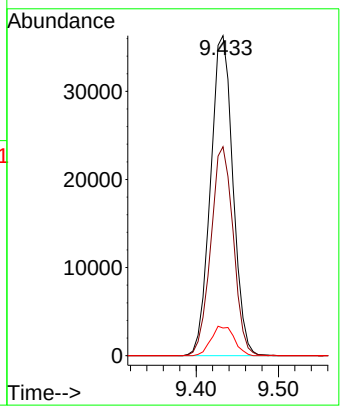
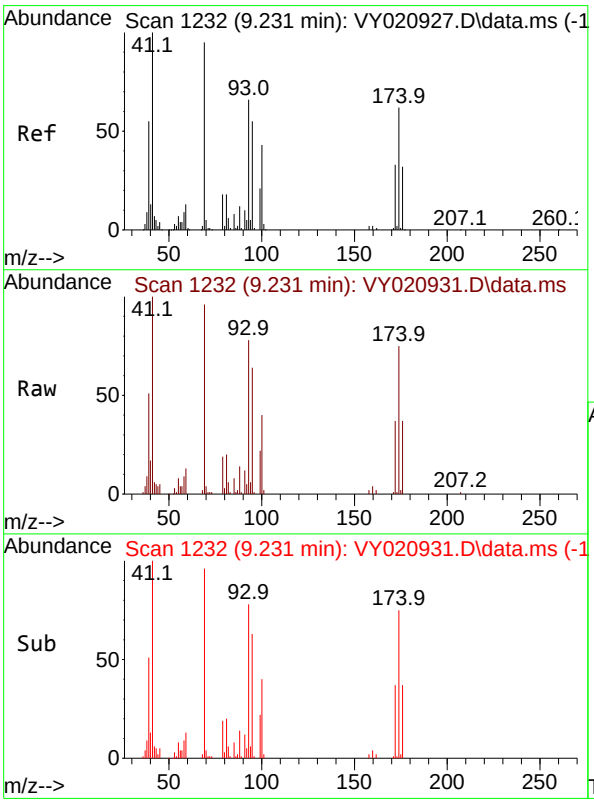
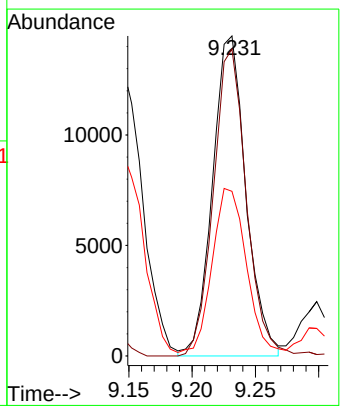


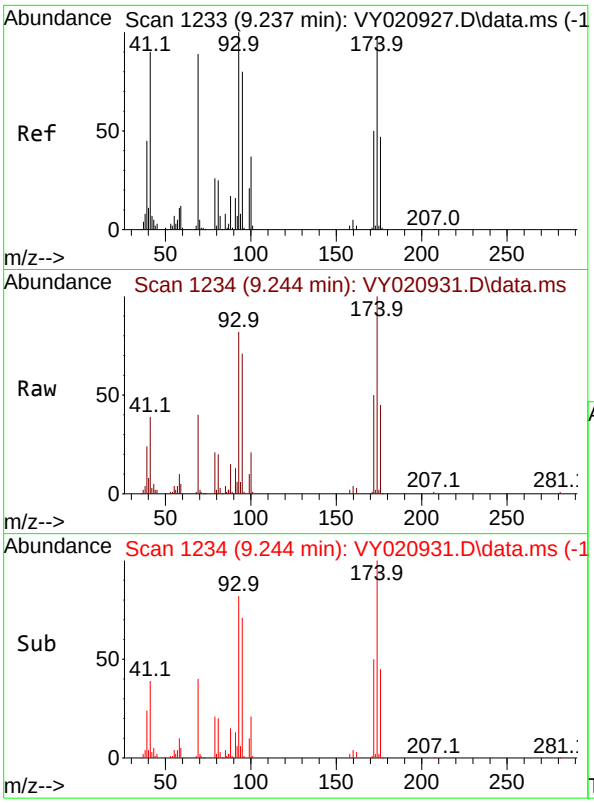




#48
Methyl methacrylate
Concen: 22.174 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 41 Resp: 26554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 95.4 | 77.0 | 115.4 |
| 39 | 52.4 | 41.1 | 61.7 |






#49
1,4-Dioxane
Concen: 445.582 ug/l
RT: 9.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 88 Resp: 582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.4 | 23.1 | 34.7 |
| 58 | 74.2 | 49.0 | 73.6 |

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

**Manual Integrations**
**APPROVED**

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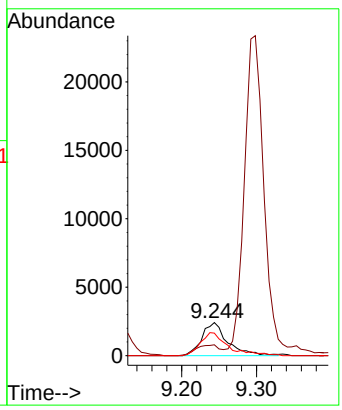
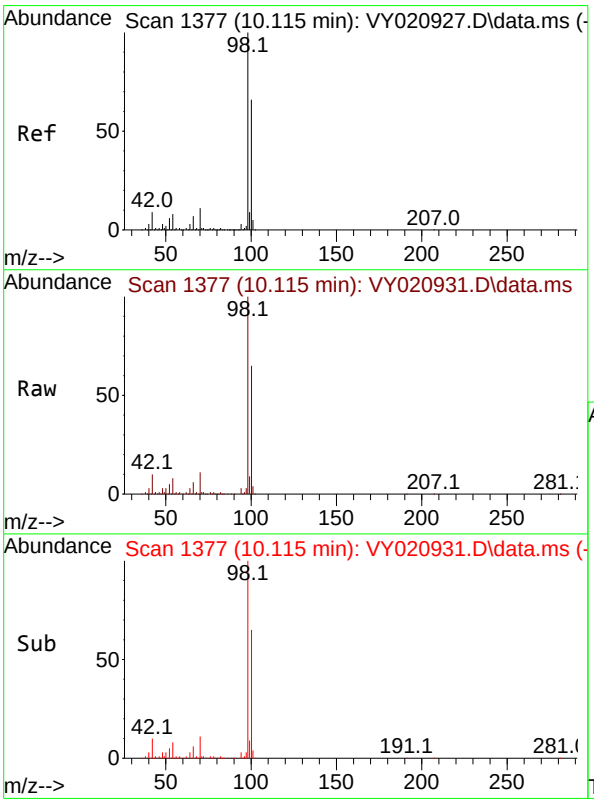
Supervised By :Mahesh Dadoda 01/27/2025

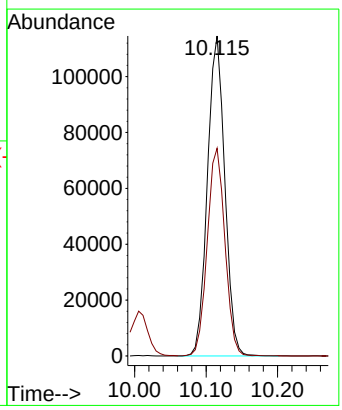


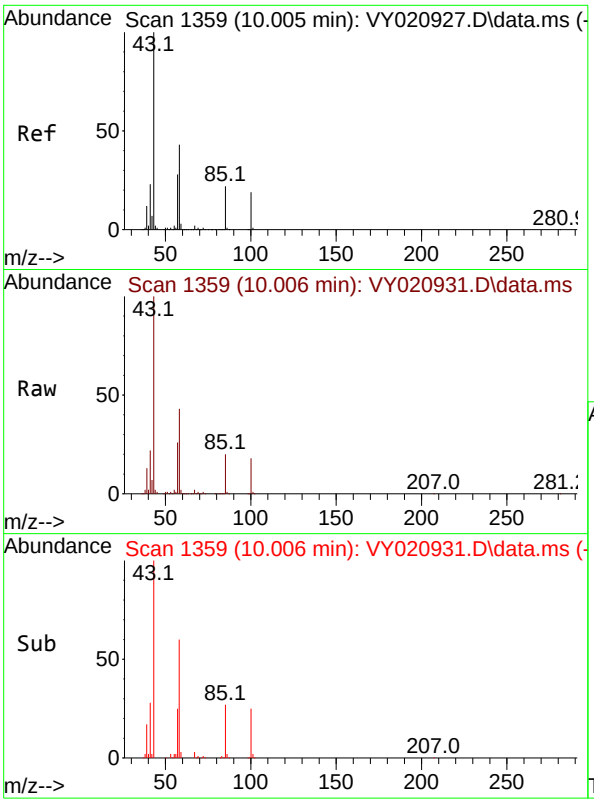




#50
Toluene-d8
Concen: 20.137 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 98 Resp: 193034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.9 | 52.3 | 78.5 |






#51
4-Methyl-2-Pentanone
Concen: 114.497 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

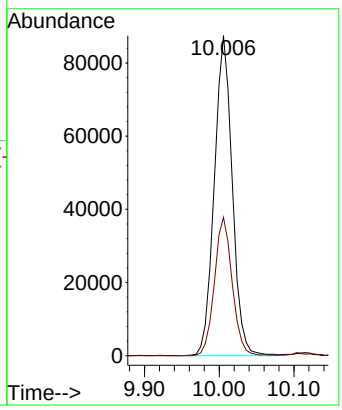
Tgt Ion: 43 Resp: 14655

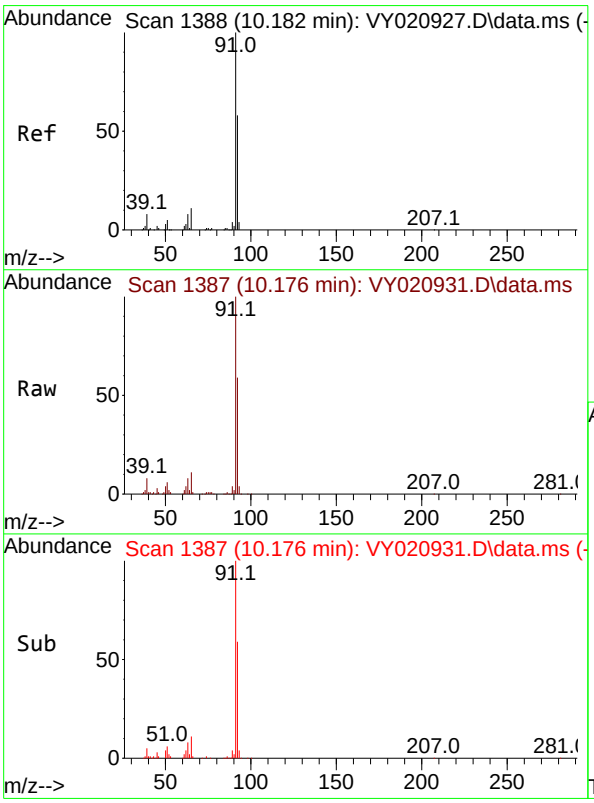
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.8 | 33.7 | 50.5 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

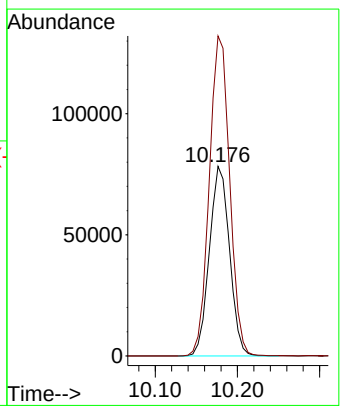


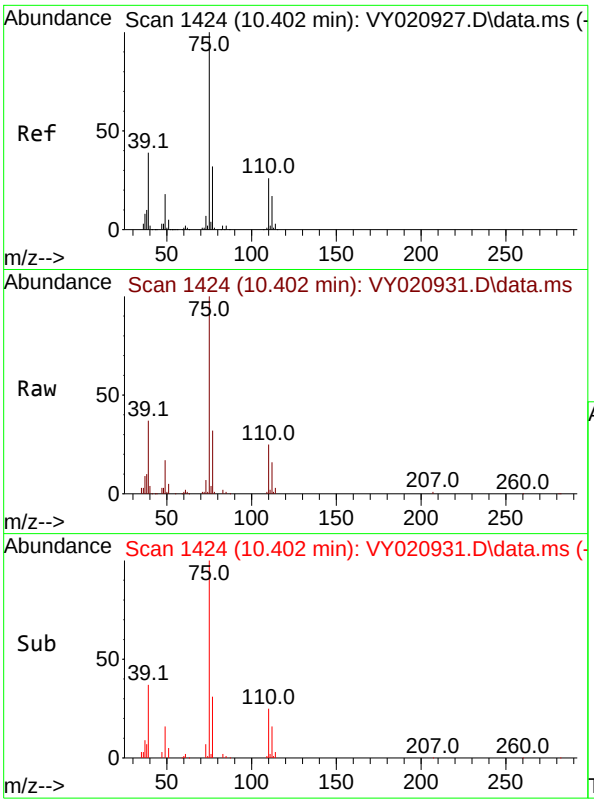




#52
Toluene
Concen: 20.466 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 92 Resp: 133243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.7 | 137.3 | 205.9 |






#53
t-1,3-Dichloropropene
Concen: 21.182 ug/l
RT: 10.402 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 75 Resp: 6564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.4 | 38.2 |

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

**Manual Integrations**
**APPROVED**

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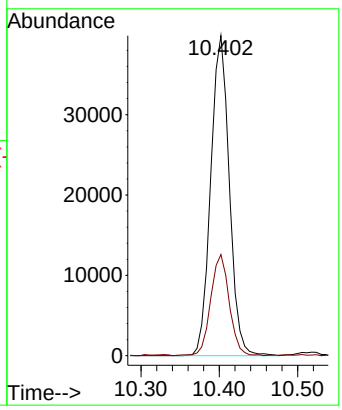
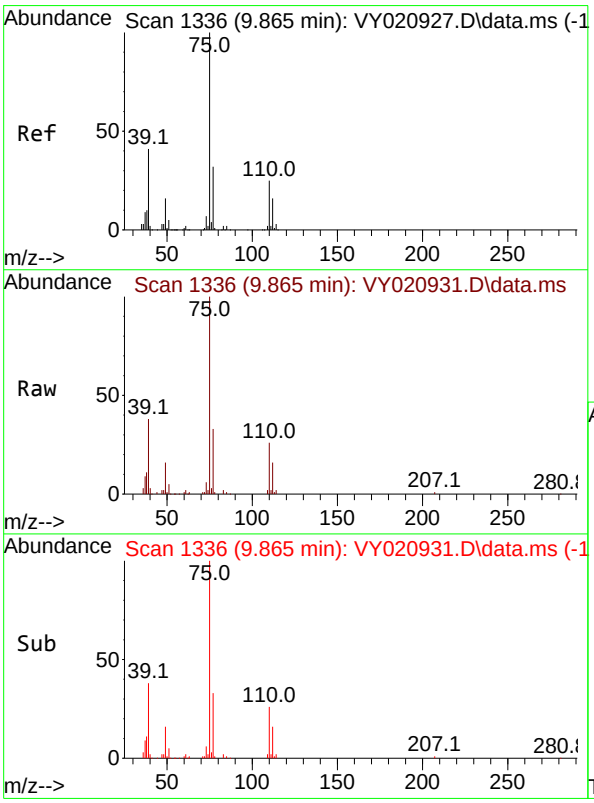
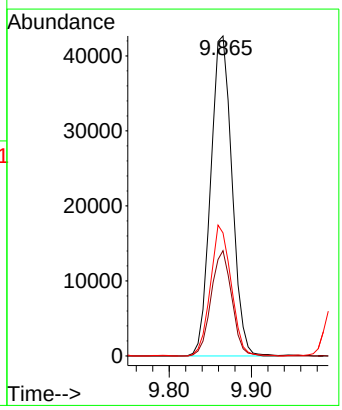


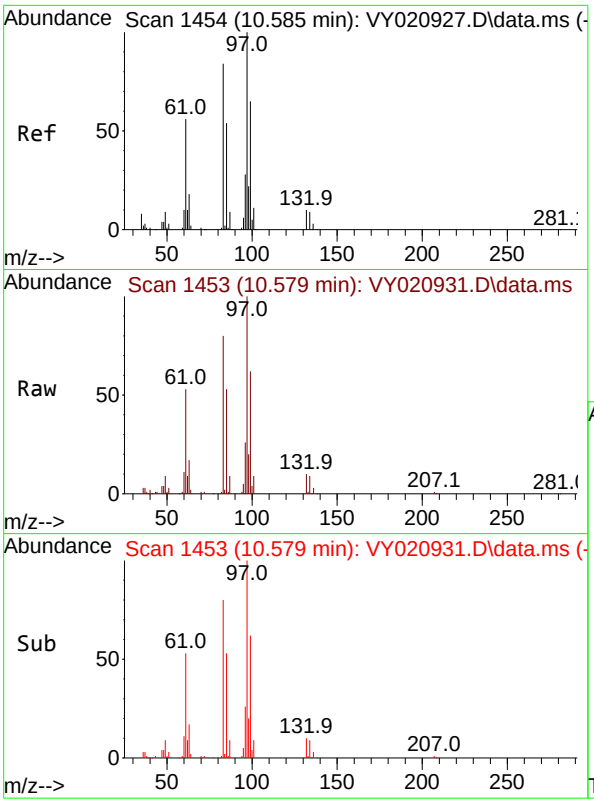




#54
cis-1,3-Dichloropropene
Concen: 20.774 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 75 Resp: 76874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 25.7 | 38.5 |
| 39 | 38.4 | 32.8 | 49.2 |

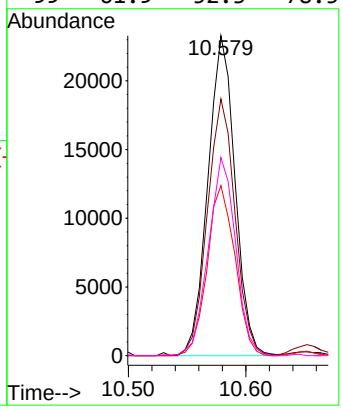





#55
1,1,2-Trichloroethane
Concen: 21.749 ug/l
RT: 10.579 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 97 Resp: 3734

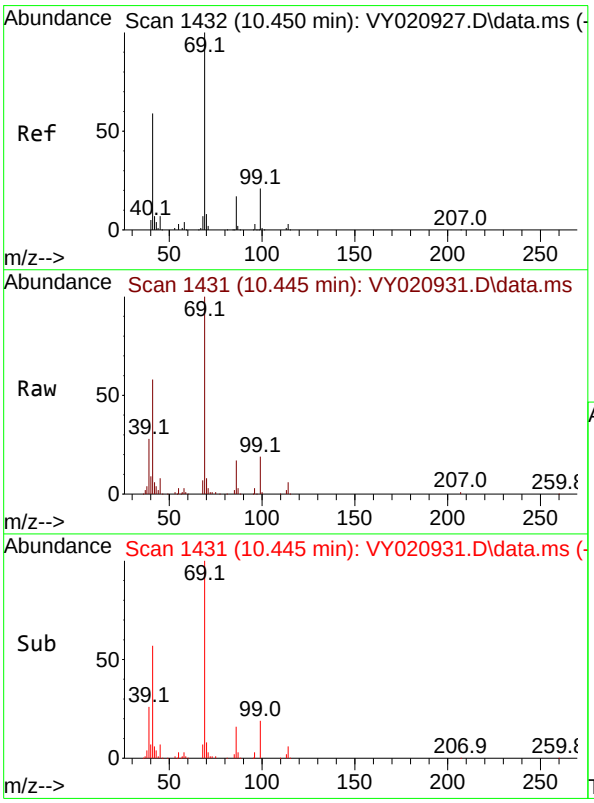
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 80.0 | 67.0 | 100.6 |
| 85 | 53.2 | 43.1 | 64.7 |
| 99 | 61.9 | 52.3 | 78.5 |




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

**Manual Integrations**
**APPROVED**

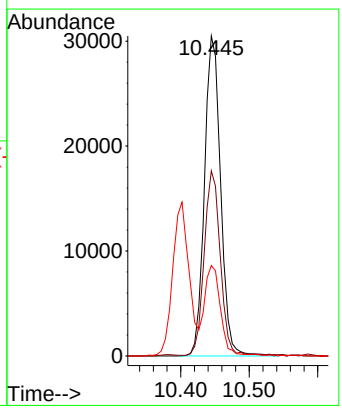
Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

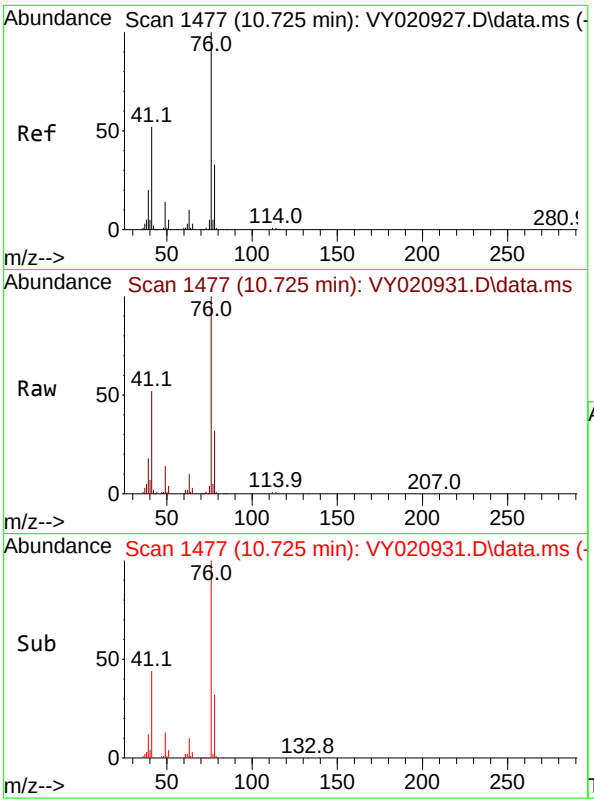



#56
Ethyl methacrylate
Concen: 22.249 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 69 Resp: 50068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 57.1 | 46.6 | 70.0 |
| 39 | 27.3 | 23.9 | 35.9 |






#57
1,3-Dichloropropane
Concen: 21.478 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 76 Resp: 6265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.4 | 26.2 | 39.2 |

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

**Manual Integrations**
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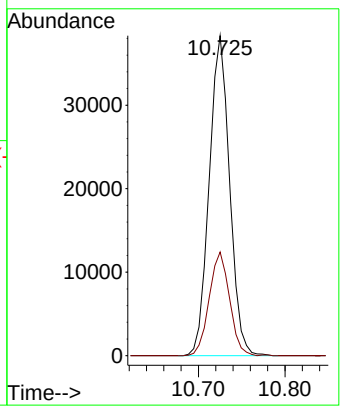
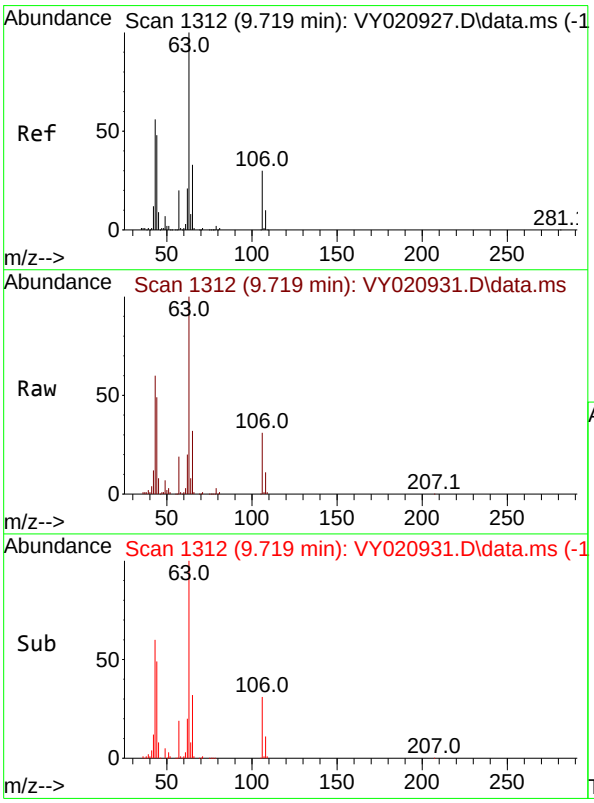
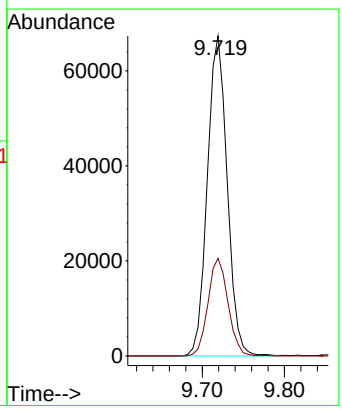


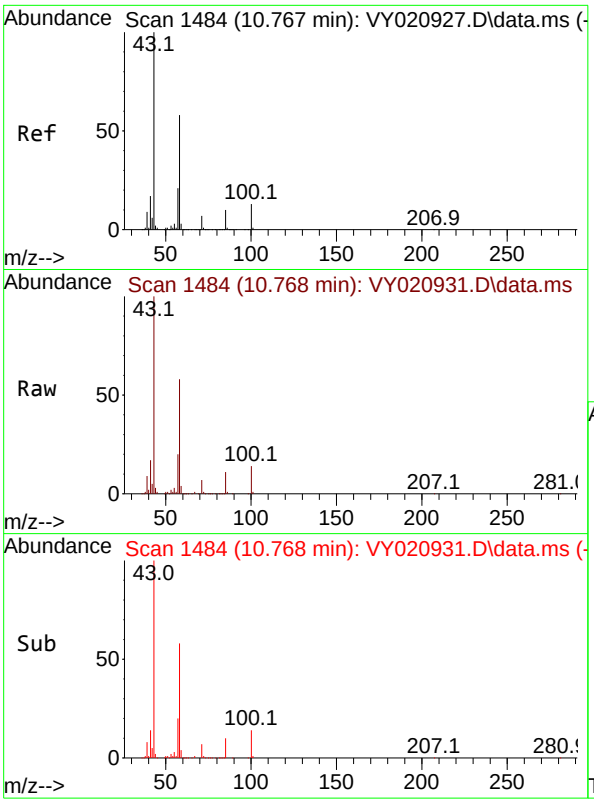




#58
2-Chloroethyl Vinyl ether
Concen: 110.326 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 63 Resp: 112684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 30.8 | 24.7 | 37.1 |






#59
2-Hexanone
Concen: 115.076 ug/l
RT: 10.768 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 43 Resp: 9471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.6 | 29.9 | 89.8 |

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

**Manual Integrations**
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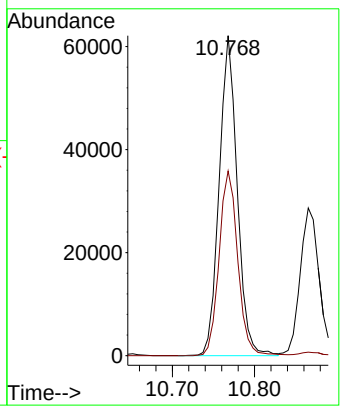
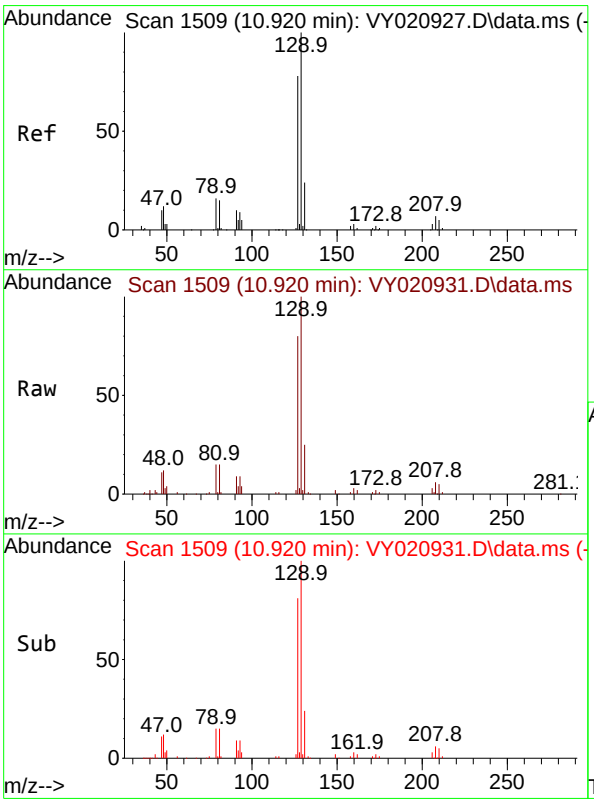
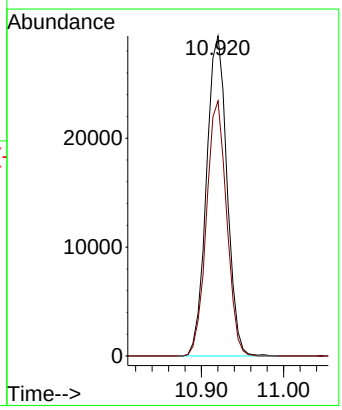


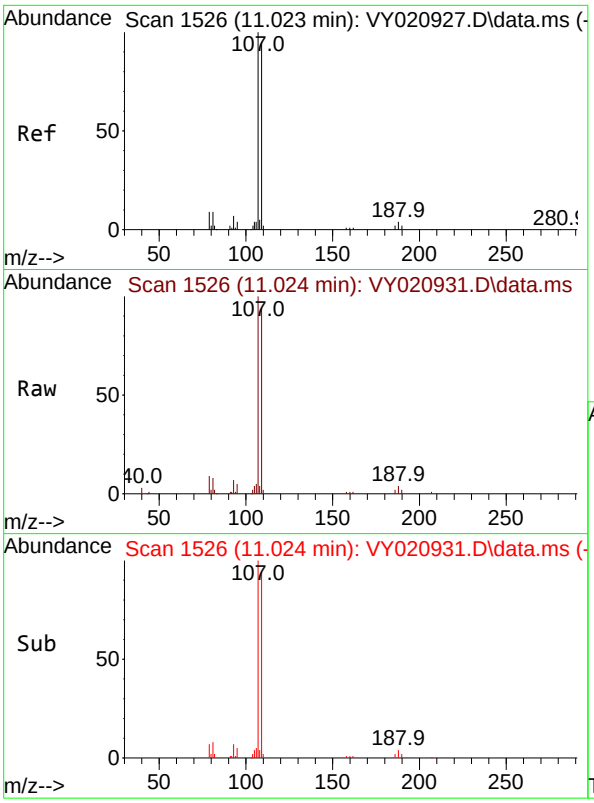




#60
Dibromochloromethane
Concen: 21.114 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:129 Resp: 51025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.3 | 39.2 | 117.6 |






#61
1,2-Dibromoethane
Concen: 21.308 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:107 Resp: 3499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.8 | 76.3 | 114.5 |

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

**Manual Integrations**
**APPROVED**

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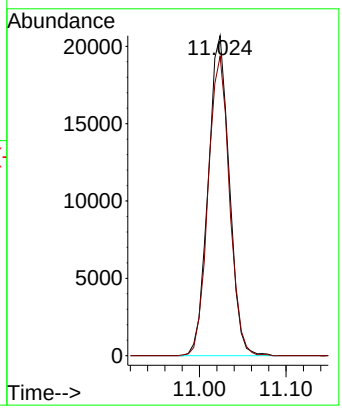
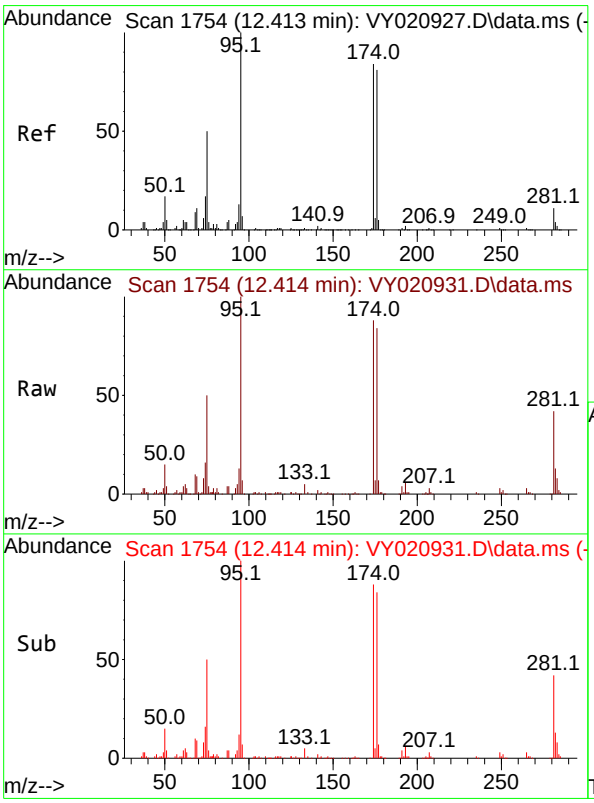
Supervised By :Mahesh Dadoda 01/27/2025

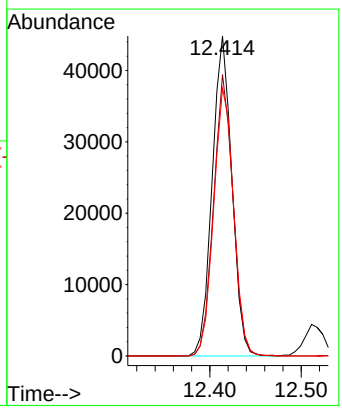


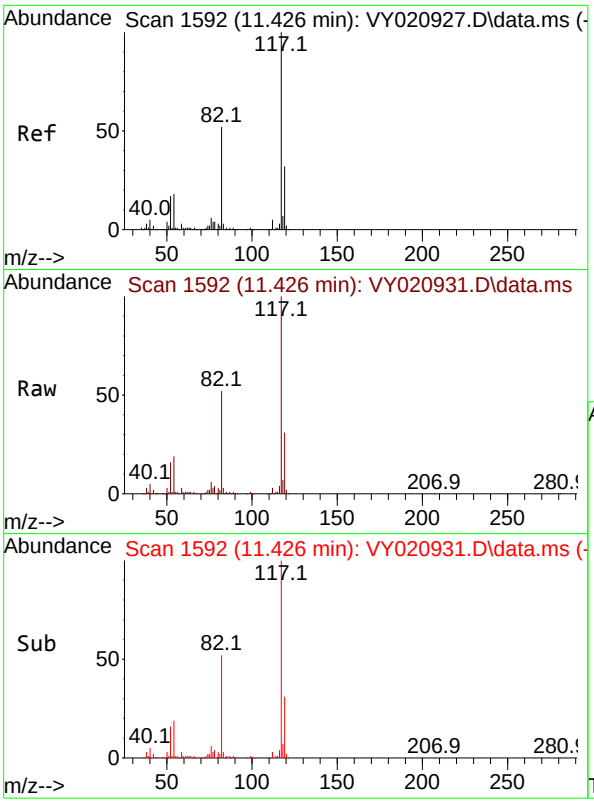




#62
4-Bromofluorobenzene
Concen: 21.026 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 95 Resp: 67079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.5 | 0.0 | 177.4 |
| 176 | 85.2 | 0.0 | 172.2 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:117 Resp: 36561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 51.6 | 41.8 | 62.8 |
| 119 | 31.3 | 26.0 | 39.0 |

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

**Manual Integrations**
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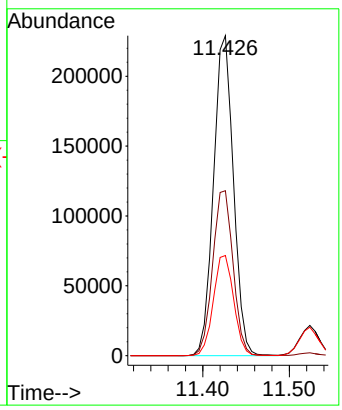
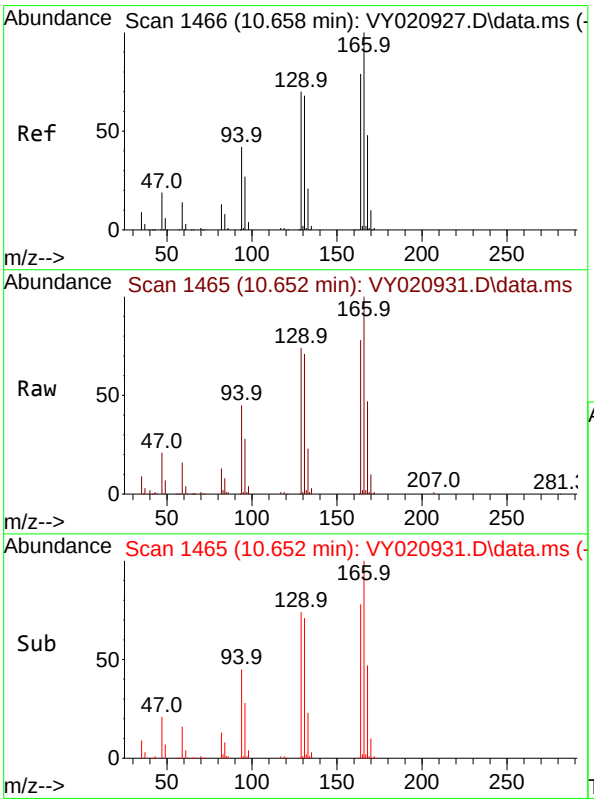
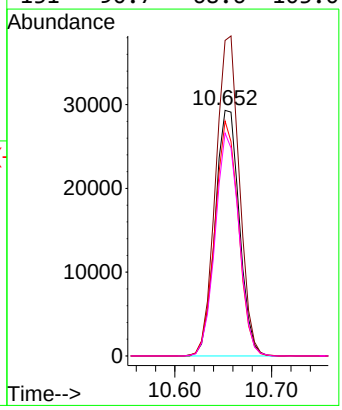


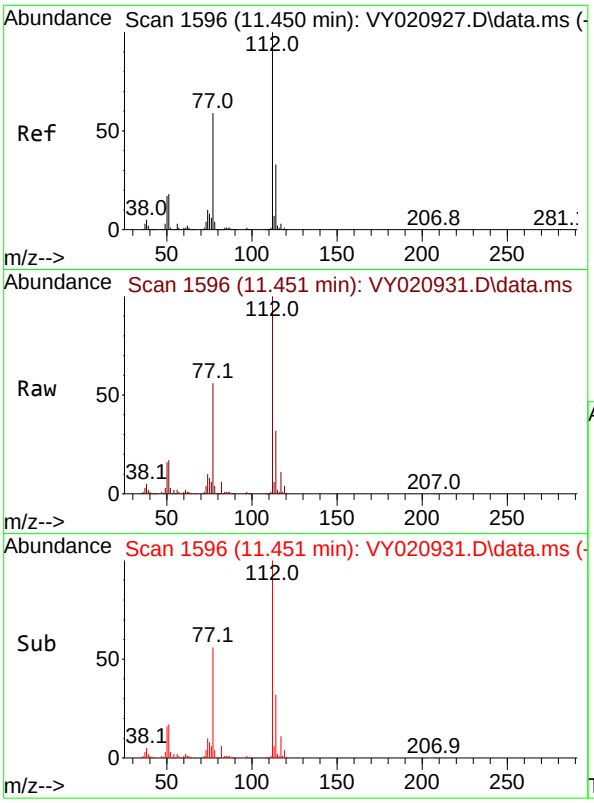




#64
Tetrachloroethene
Concen: 19.976 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:164 Resp: 50827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.4 | 101.0 | 151.6 |
| 129 | 95.6 | 70.8 | 106.2 |
| 131 | 90.7 | 68.6 | 103.0 |






#65
Chlorobenzene
Concen: 20.264 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:112 Resp: 14488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 26.0 | 39.0 |

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

**Manual Integrations**
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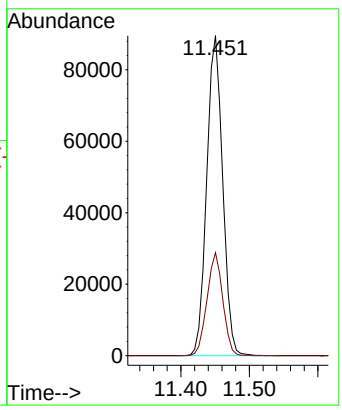
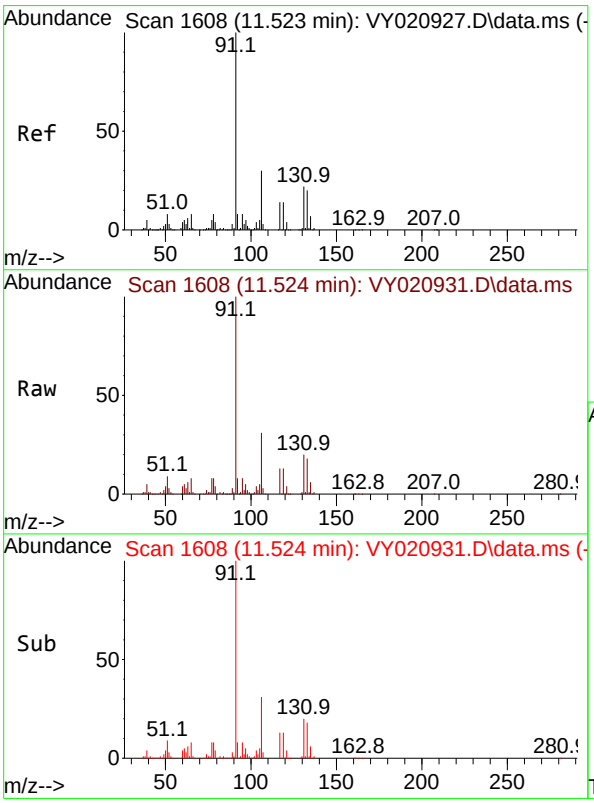
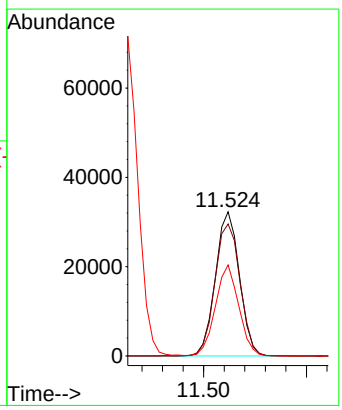


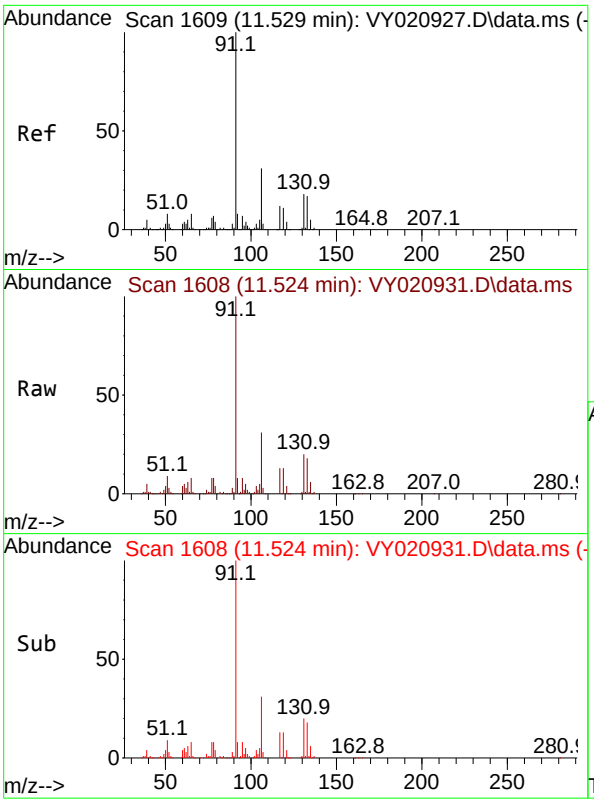




#66
1,1,1,2-Tetrachloroethane
Concen: 20.589 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:131 Resp: 52308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.1 | 47.5 | 142.6 |
| 119 | 61.5 | 31.2 | 93.6 |






#67
Ethyl Benzene
Concen: 20.181 ug/l
RT: 11.524 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 91 Resp: 25177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.0 | 25.2 | 37.8 |

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

**Manual Integrations**
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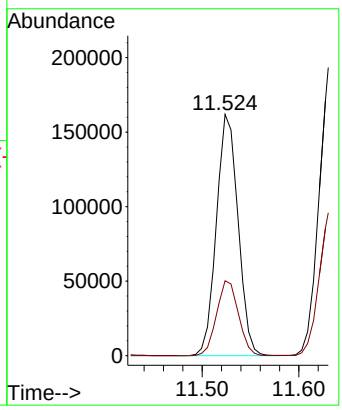
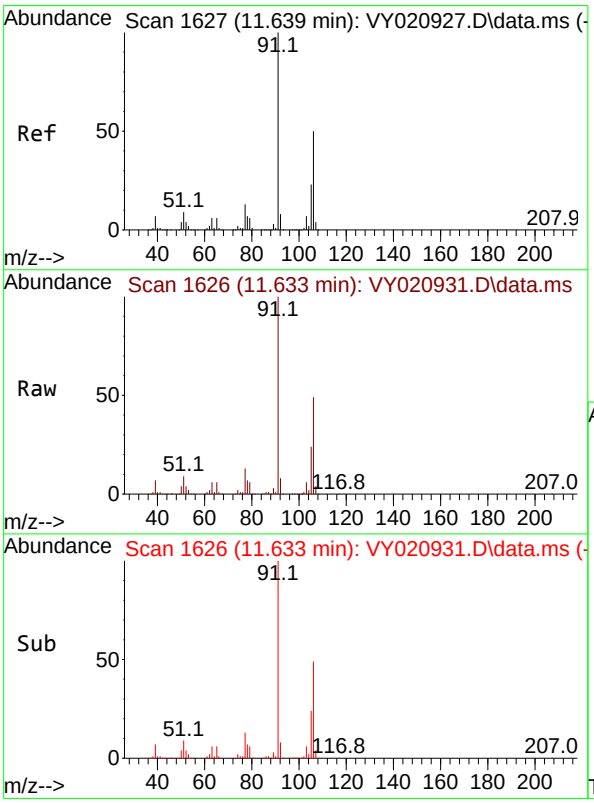
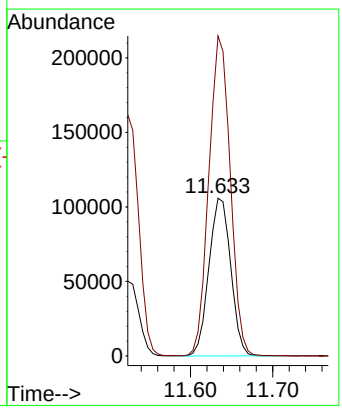


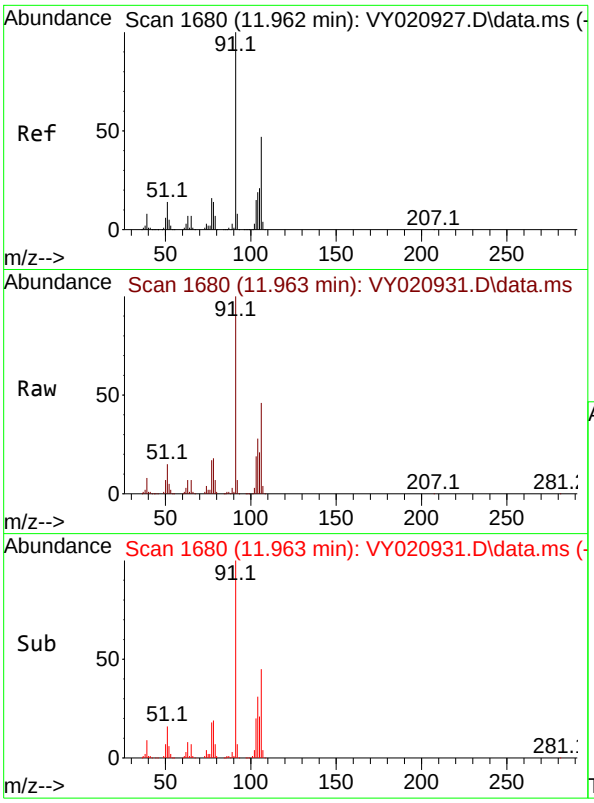




#68
m/p-Xylenes
Concen: 40.816 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:106 Resp: 194981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 199.5 | 159.5 | 239.3 |






#69
o-Xylene
Concen: 20.296 ug/l
RT: 11.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

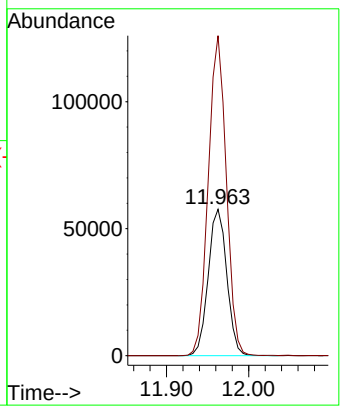
Tgt Ion:106 Resp: 9056

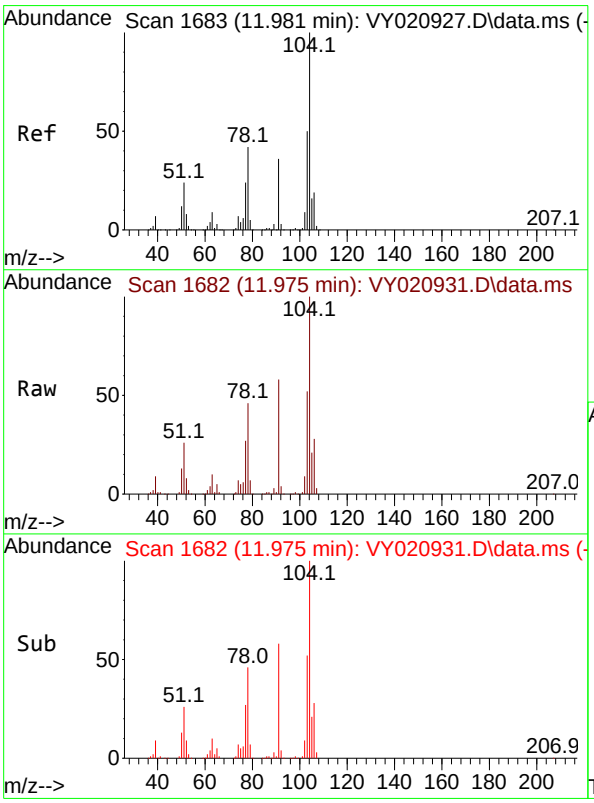
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 212.0 | 105.3 | 315.9 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

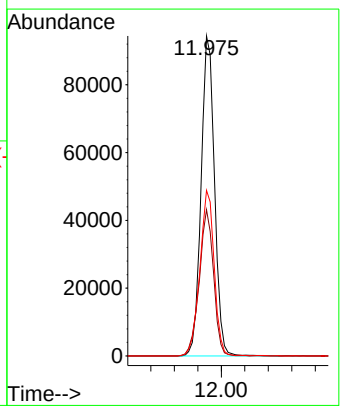


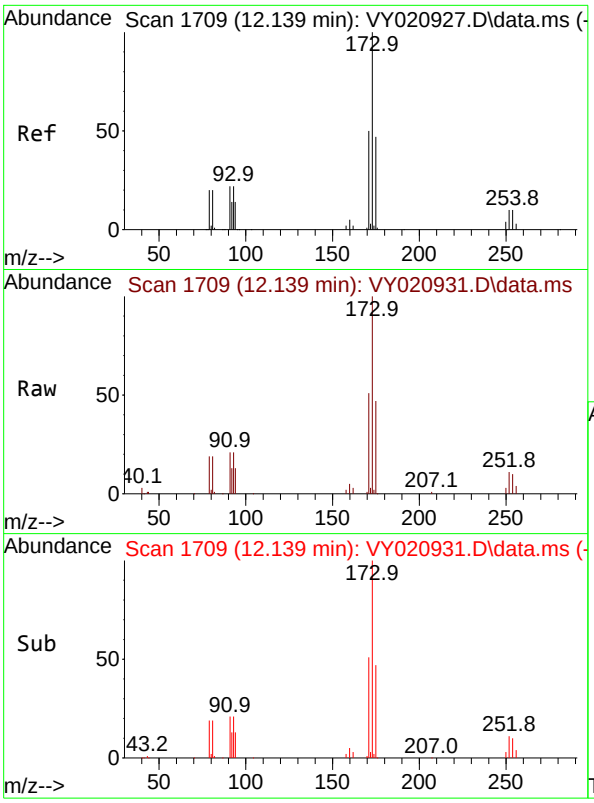




#70
Styrene
Concen: 20.531 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:104 Resp: 150141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.6 | 38.5 | 57.7 |
| 103 | 55.3 | 43.4 | 65.2 |






#71
Bromoform
Concen: 21.654 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

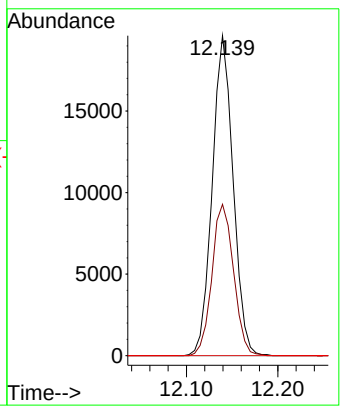
Tgt Ion:173 Resp: 3115

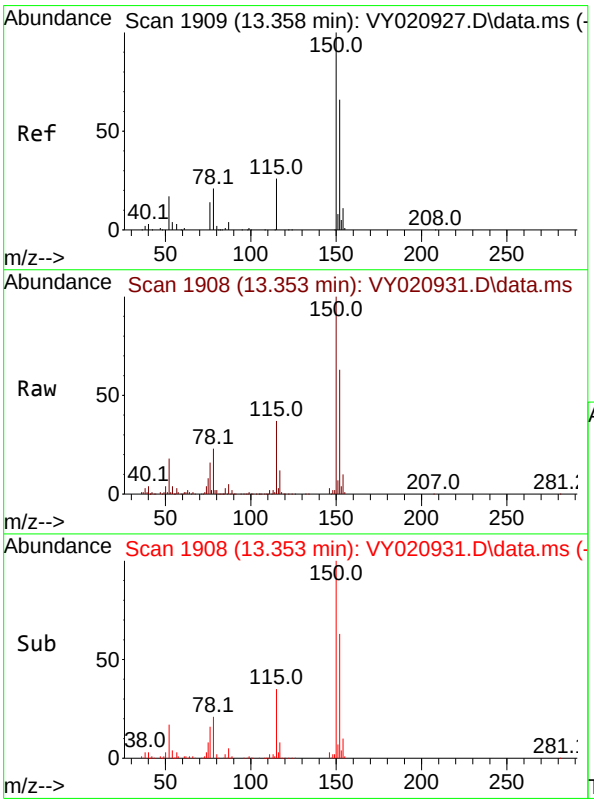
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.0 | 24.3 | 73.0 |
| 254 | 0.0 | 0.1 | 0.1 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

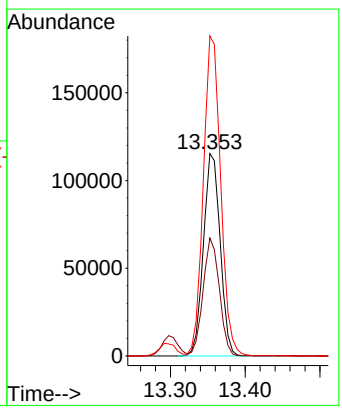


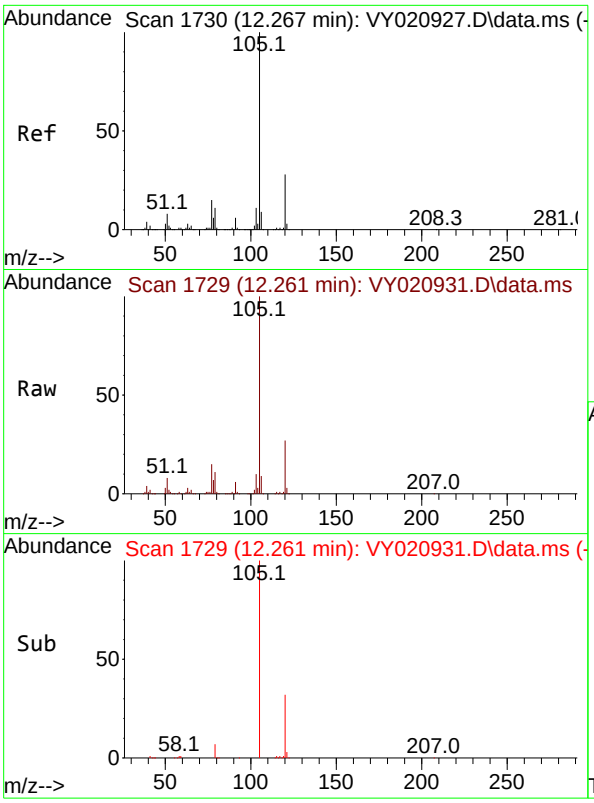




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:152 Resp: 179543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.9 | 29.0 | 87.0 |
| 150 | 163.3 | 0.0 | 347.6 |






#73
Isopropylbenzene
Concen: 19.880 ug/l
RT: 12.261 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

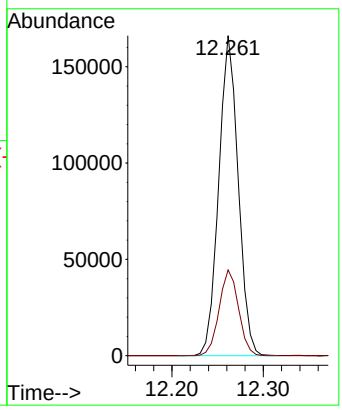
Tgt Ion:105 Resp: 24582

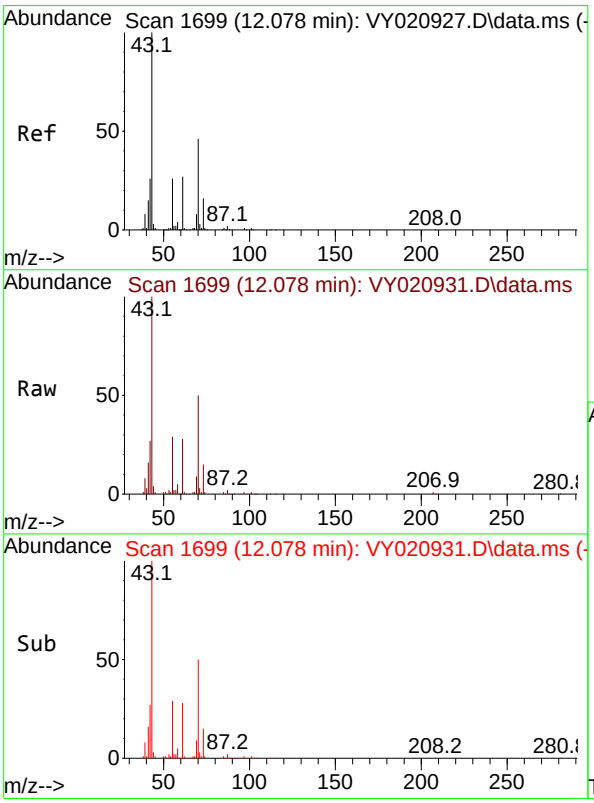
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.7 | 13.4 | 40.1 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

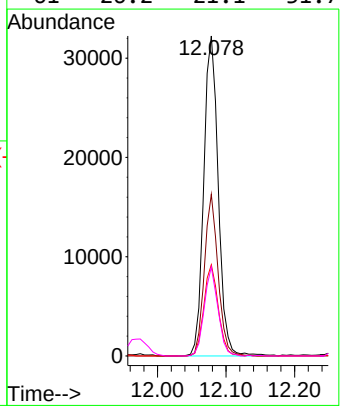


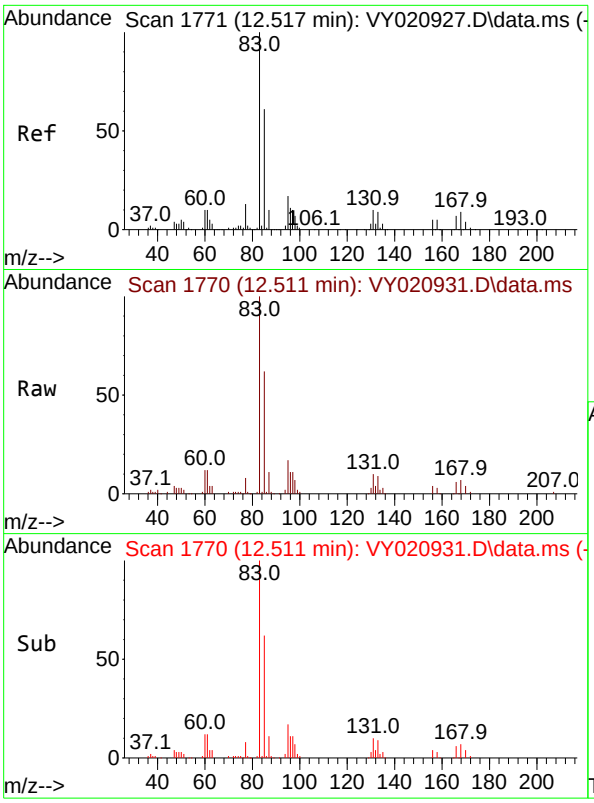




#74
N-amyl acetate
Concen: 21.636 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 43 Resp: 47608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 47.7 | 38.7 | 58.1 |
| 55 | 28.4 | 21.6 | 32.4 |
| 61 | 26.2 | 21.1 | 31.7 |






#75
1,1,2,2-Tetrachloroethane
Concen: 21.540 ug/l
RT: 12.511 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

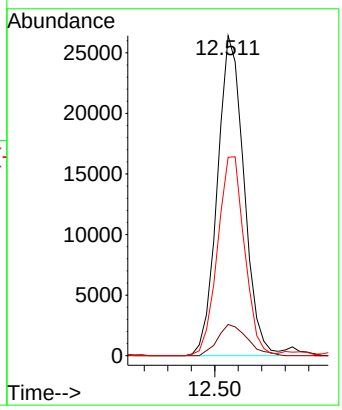
Tgt Ion: 83 Resp: 4144

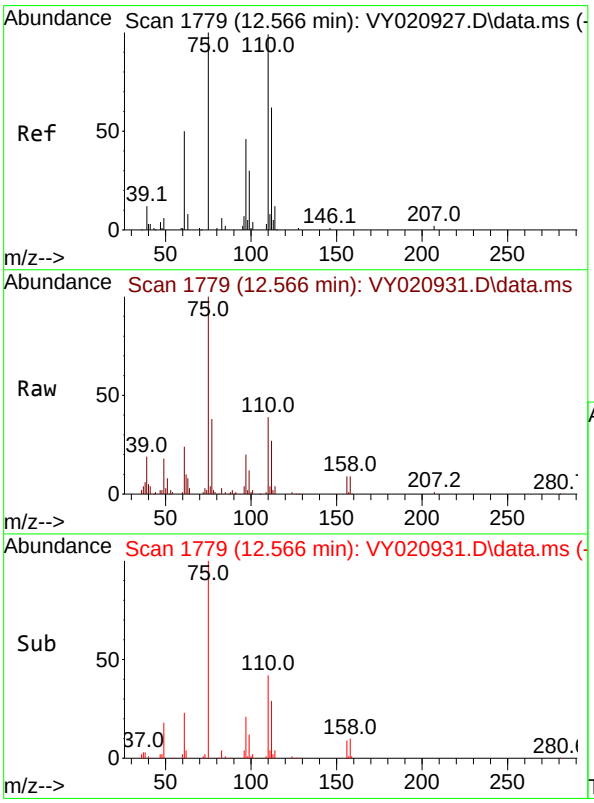
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.9 | 5.5 | 16.7 |
| 85 | 63.3 | 31.8 | 95.4 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

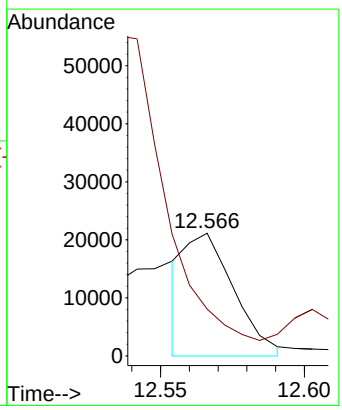


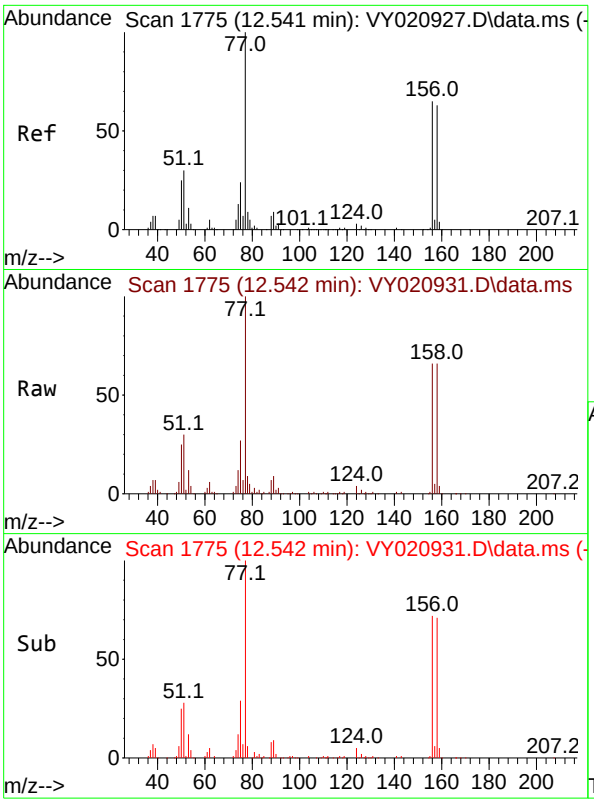




#76
1,2,3-Trichloropropane
Concen: 19.935 ug/l m
RT: 12.566 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 75 Resp: 25306

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






#77
Bromobenzene
Concen: 19.792 ug/l
RT: 12.542 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

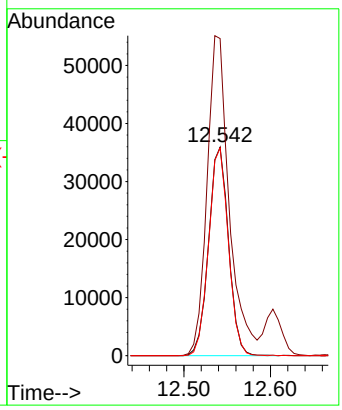
Tgt Ion:156 Resp: 5736

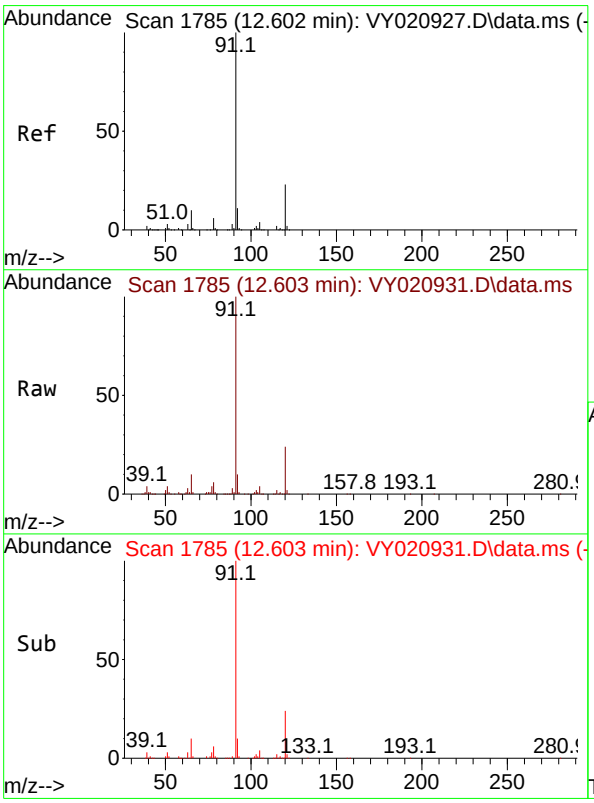
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 170.7 | 84.4 | 253.1 |
| 158 | 98.6 | 48.9 | 146.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

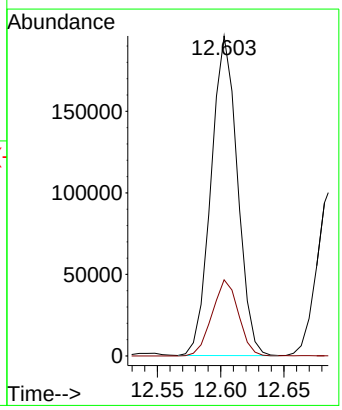


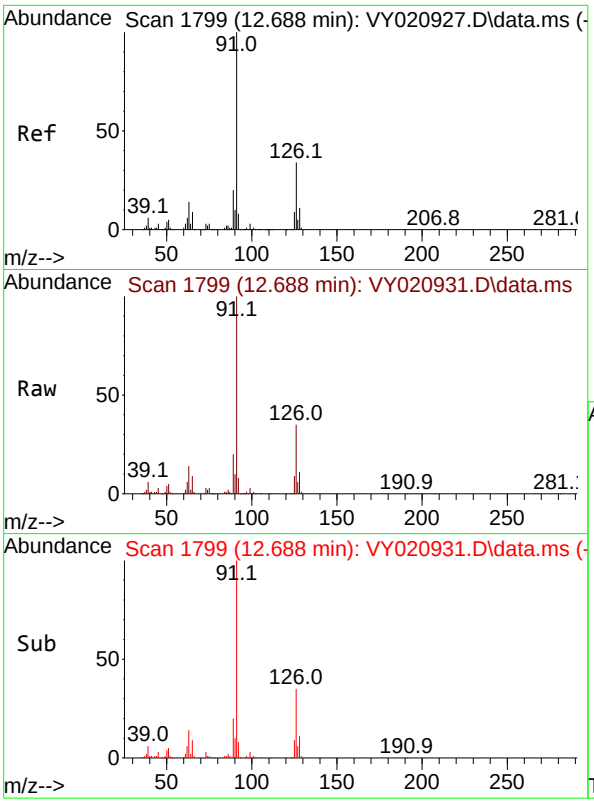




#78
n-propylbenzene
Concen: 19.742 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 91 Resp: 284362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.8 | 11.8 | 35.4 |






#79
2-Chlorotoluene
Concen: 19.711 ug/l
RT: 12.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

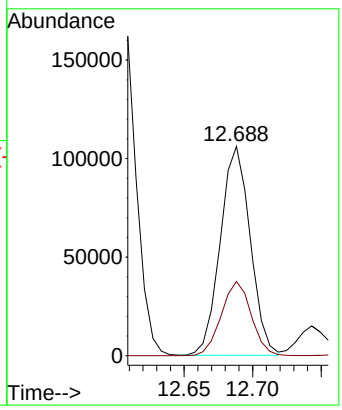
Tgt Ion: 91 Resp: 16103

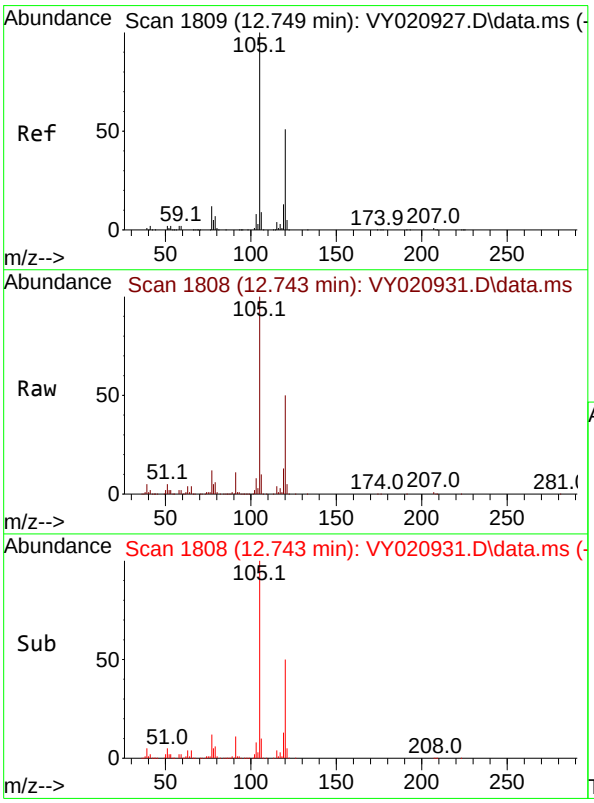
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.5 | 17.6 | 52.9 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

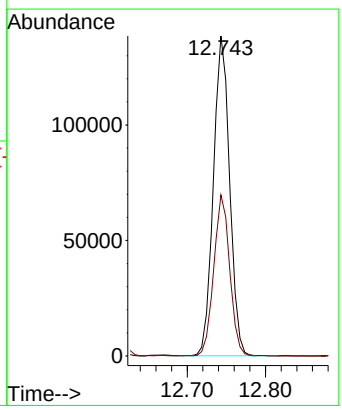


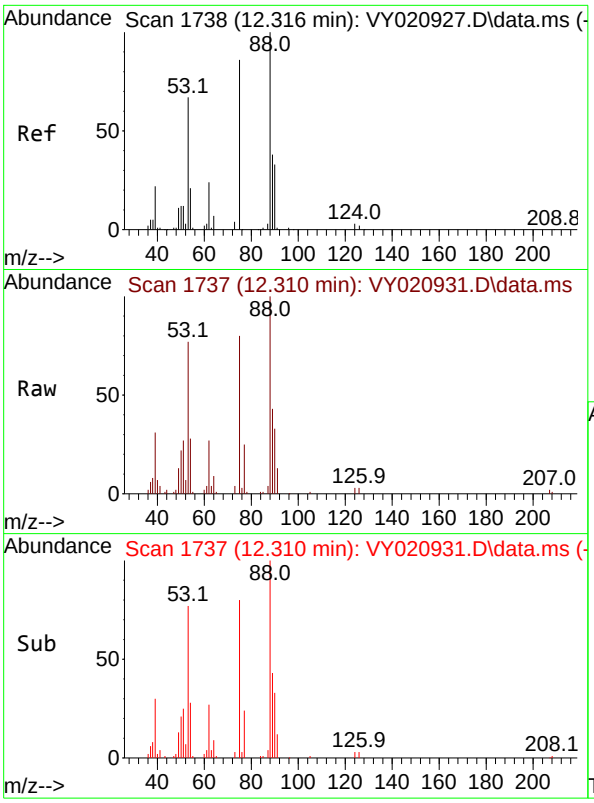




#80
1,3,5-Trimethylbenzene
Concen: 20.096 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:105 Resp: 199670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.5 | 24.9 | 74.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 21.261 ug/l
RT: 12.310 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

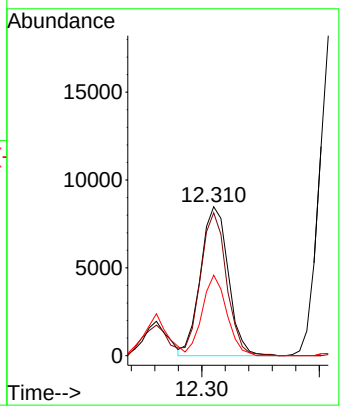
Tgt Ion: 75 Resp: 1397

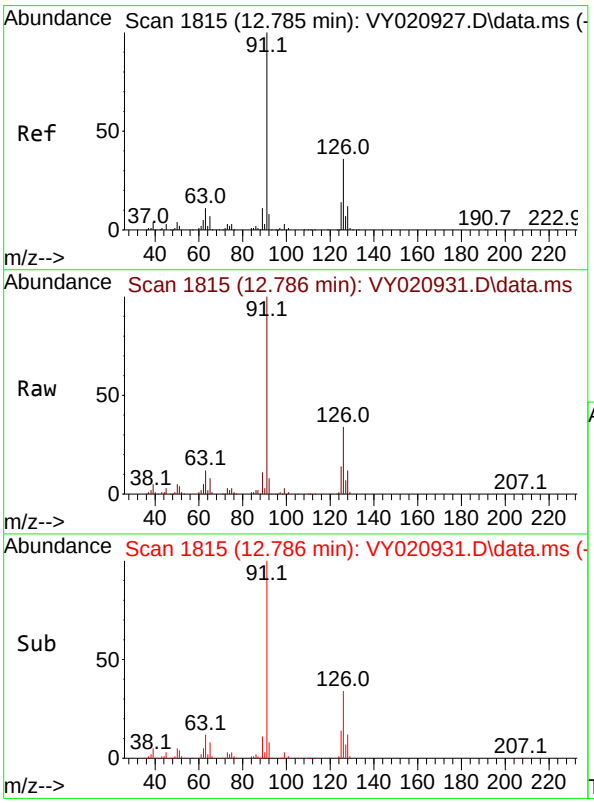
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 90.2 | 67.7 | 101.5 |
| 89 | 47.6 | 38.4 | 57.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

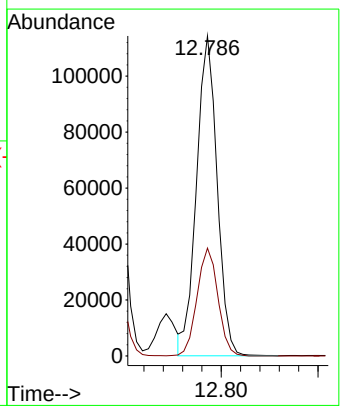


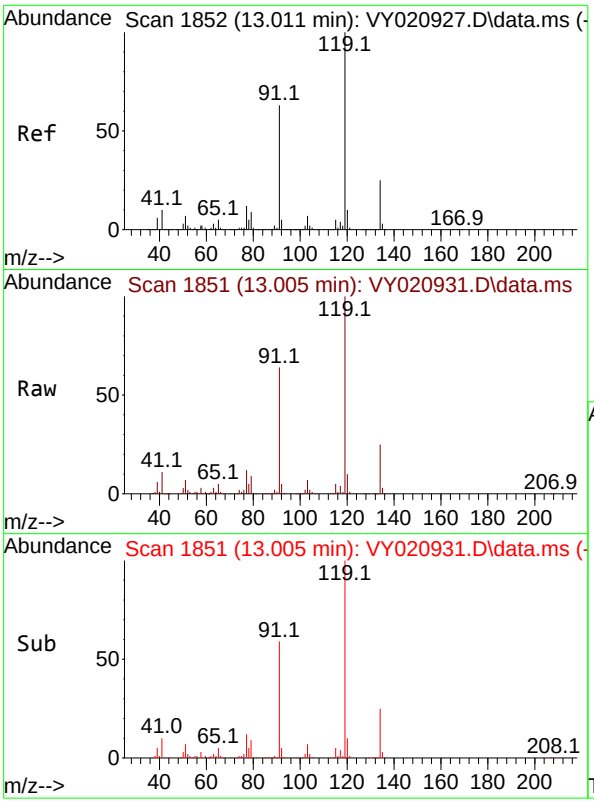




#82
4-Chlorotoluene
Concen: 20.292 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 91 Resp: 169283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.1 | 17.4 | 52.3 |






#83
tert-Butylbenzene
Concen: 19.916 ug/l
RT: 13.005 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

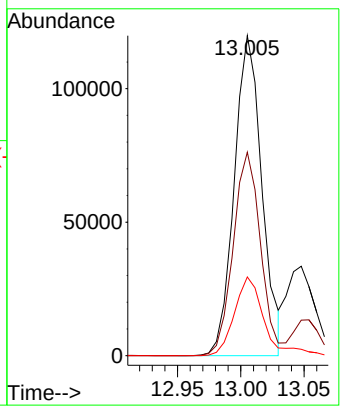
Tgt Ion:119 Resp: 18252

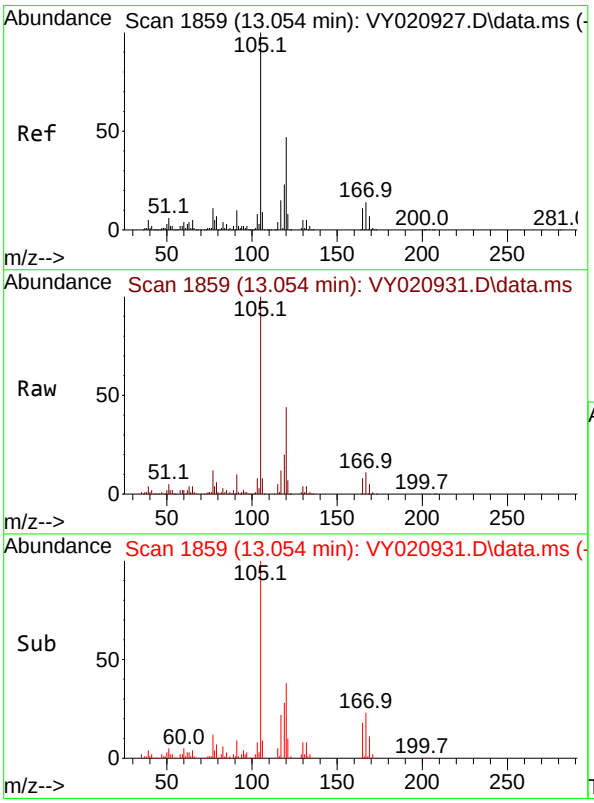
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 62.4 | 30.9 | 92.8 |
| 134 | 26.4 | 13.1 | 39.3 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

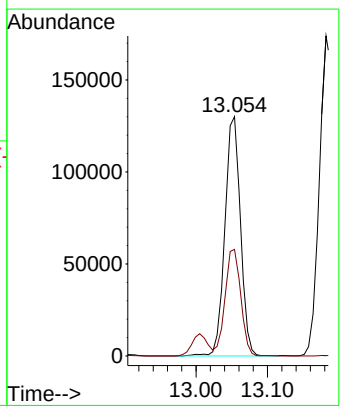


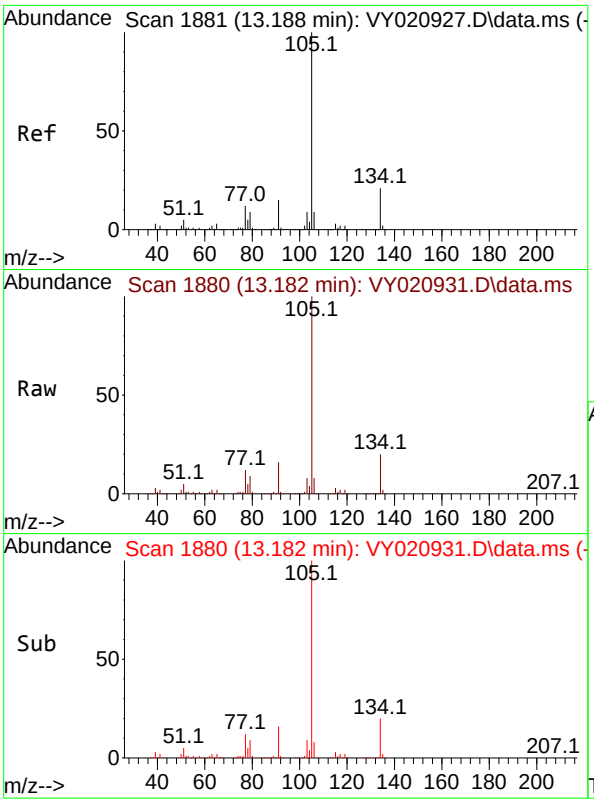




#84
1,2,4-Trimethylbenzene
Concen: 20.169 ug/l
RT: 13.054 min Scan# 1859
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:105 Resp: 197286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.8 | 22.9 | 68.7 |






#85
sec-Butylbenzene
Concen: 20.008 ug/l
RT: 13.182 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

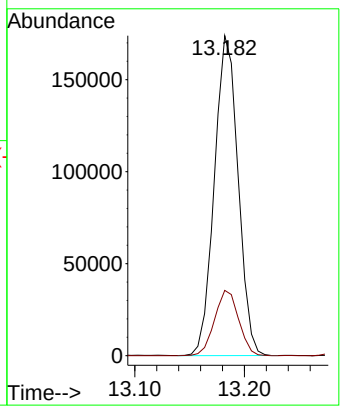
Tgt Ion:105 Resp: 26143

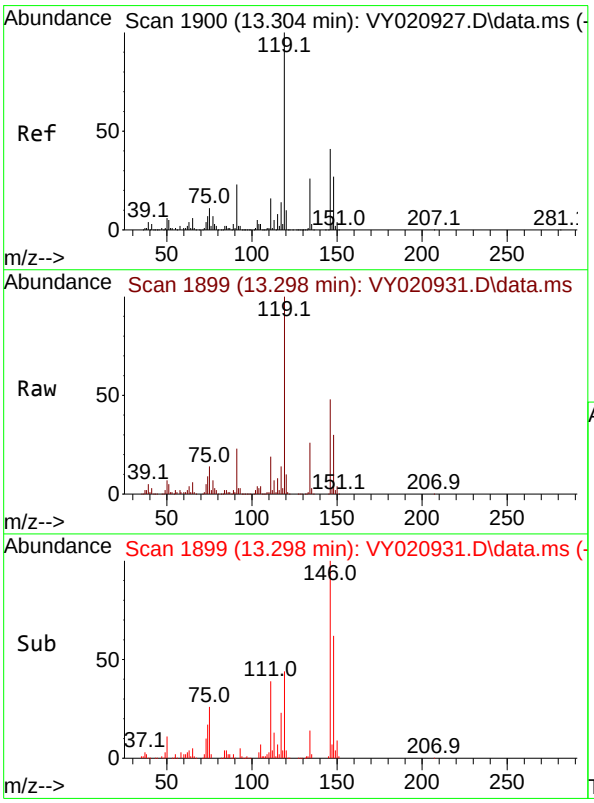
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.7 | 10.4 | 31.4 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

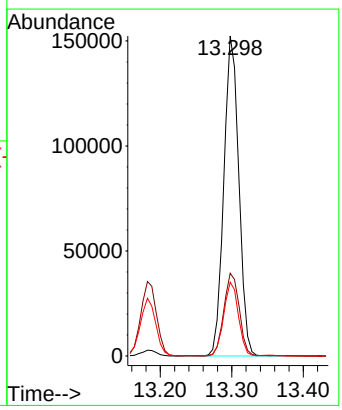


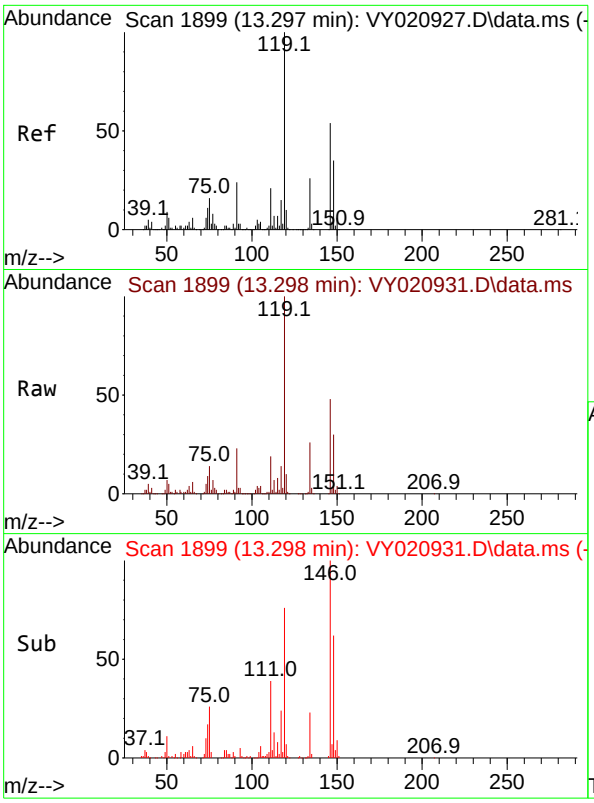




#86
p-Isopropyltoluene
Concen: 20.122 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.006 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:119 Resp: 222126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.6 | 13.3 | 39.8 |
| 91 | 22.5 | 11.6 | 34.7 |






#87
1,3-Dichlorobenzene
Concen: 20.108 ug/l
RT: 13.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

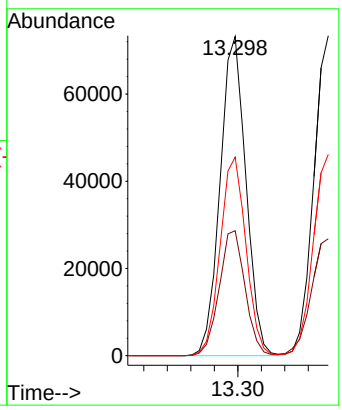
Tgt Ion:146 Resp: 11160

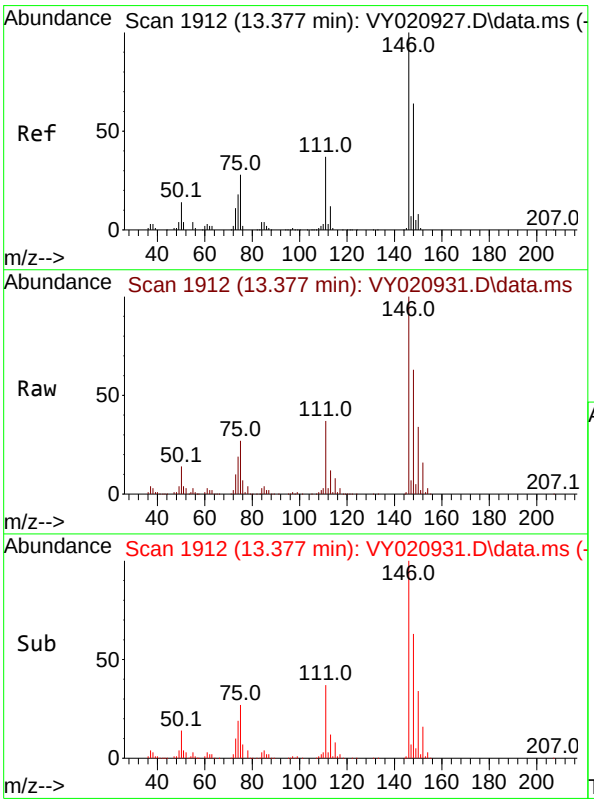
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.3 | 19.4 | 58.2 |
| 148 | 62.3 | 31.9 | 95.7 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

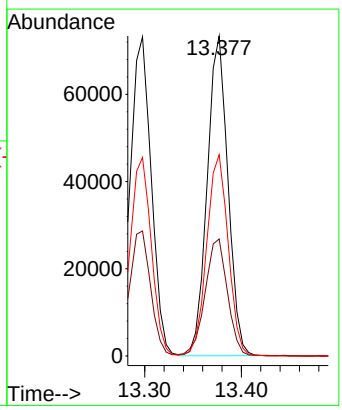


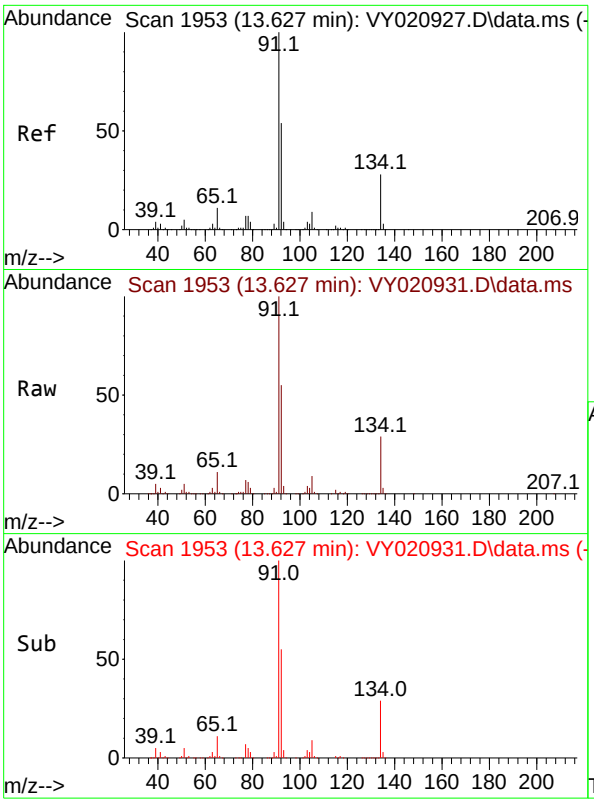




#88
1,4-Dichlorobenzene
Concen: 20.066 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:146 Resp: 109409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.5 | 18.8 | 56.4 |
| 148 | 65.2 | 32.0 | 96.0 |






#89
n-Butylbenzene
Concen: 19.922 ug/l
RT: 13.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

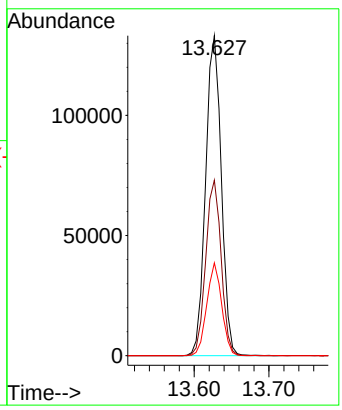
Tgt Ion: 91 Resp: 19398

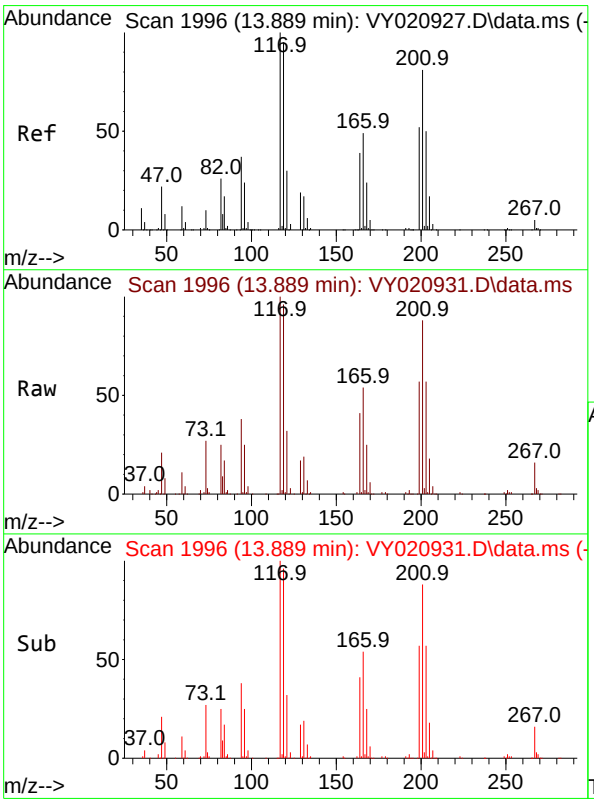
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.0 | 26.8 | 80.3 |
| 134 | 27.7 | 13.8 | 41.4 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

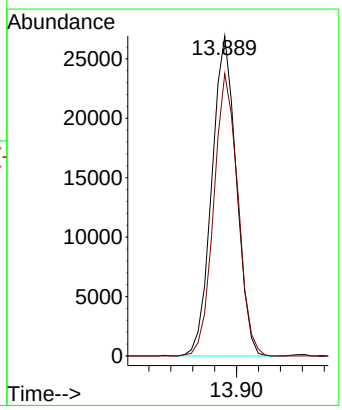


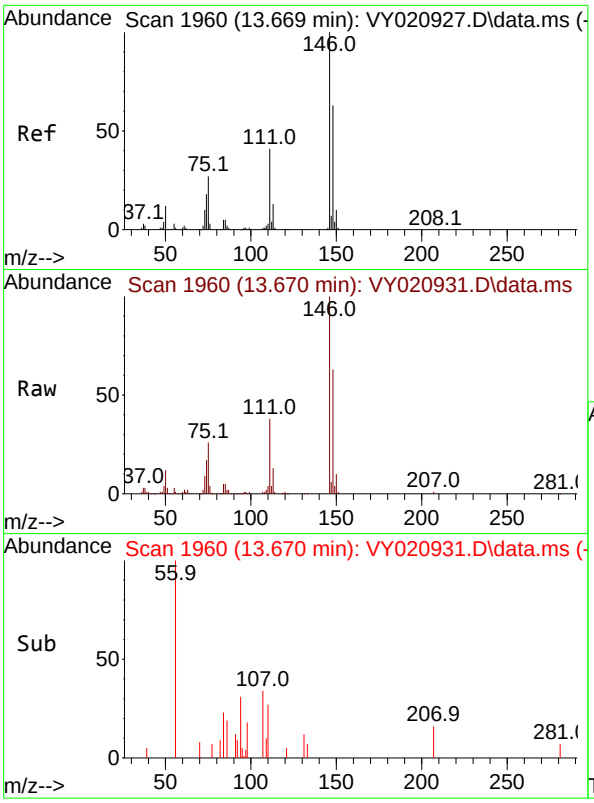




#90
Hexachloroethane
Concen: 19.042 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:117 Resp: 41758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 86.8 | 42.7 | 128.1 |






#91
1,2-Dichlorobenzene
Concen: 20.103 ug/l
RT: 13.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

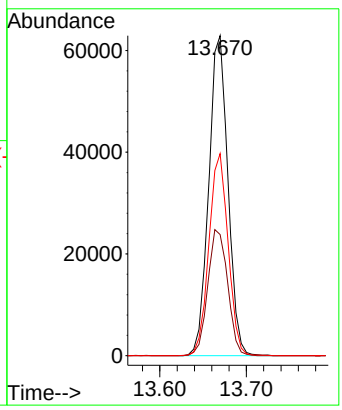
Tgt Ion:146 Resp: 9667

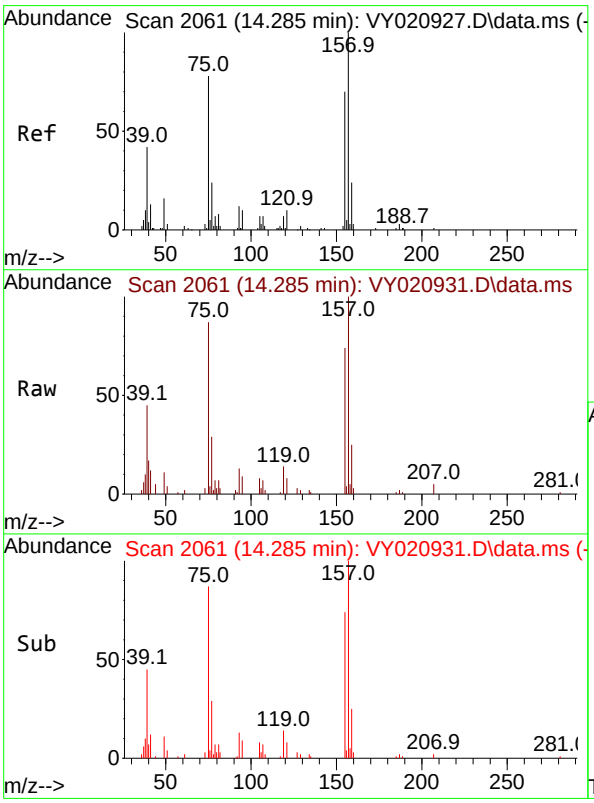
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.9 | 20.2 | 60.6 |
| 148 | 63.3 | 32.2 | 96.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

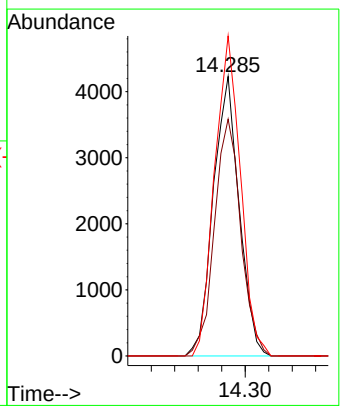


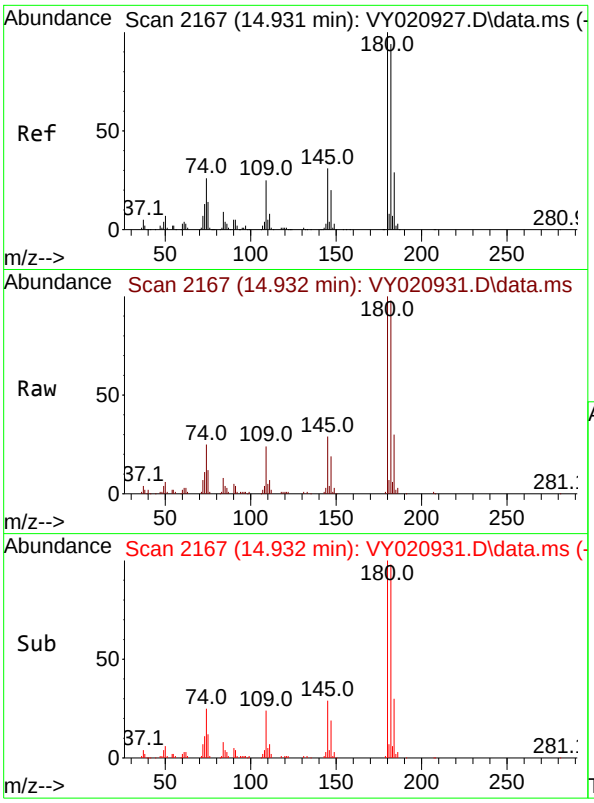




#92
1,2-Dibromo-3-Chloropropane
Concen: 22.382 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion: 75 Resp: 6469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 86.5 | 46.6 | 139.7 |
| 157 | 114.6 | 60.1 | 180.3 |






#93
1,2,4-Trichlorobenzene
Concen: 19.661 ug/l
RT: 14.932 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

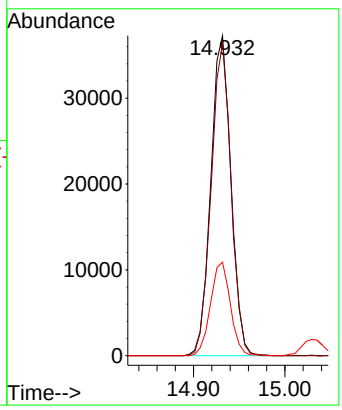
Tgt Ion:180 Resp: 5687

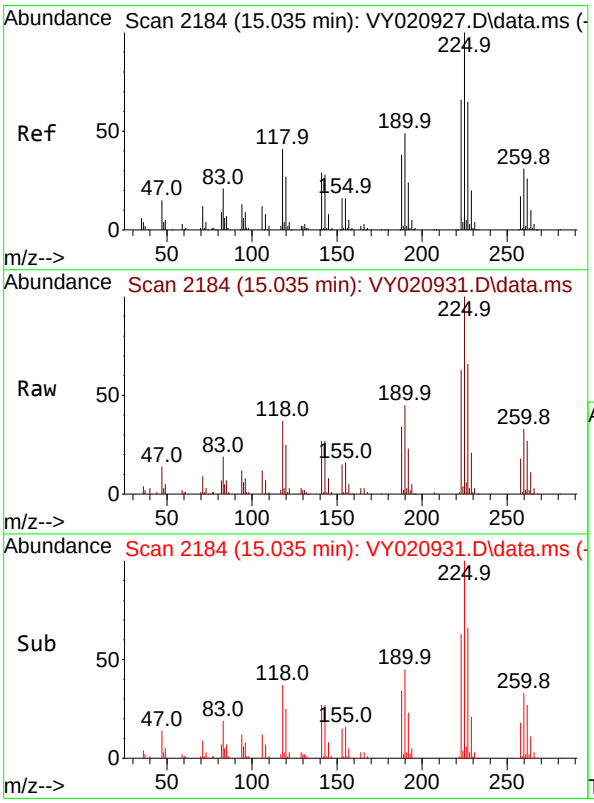
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.5 | 47.0 | 141.2 |
| 145 | 28.9 | 14.9 | 44.5 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

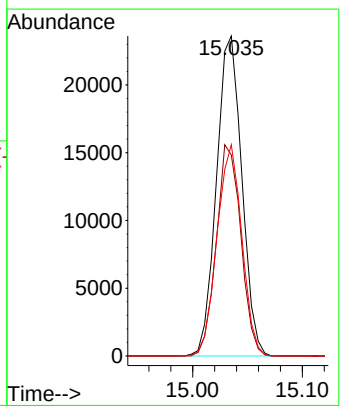


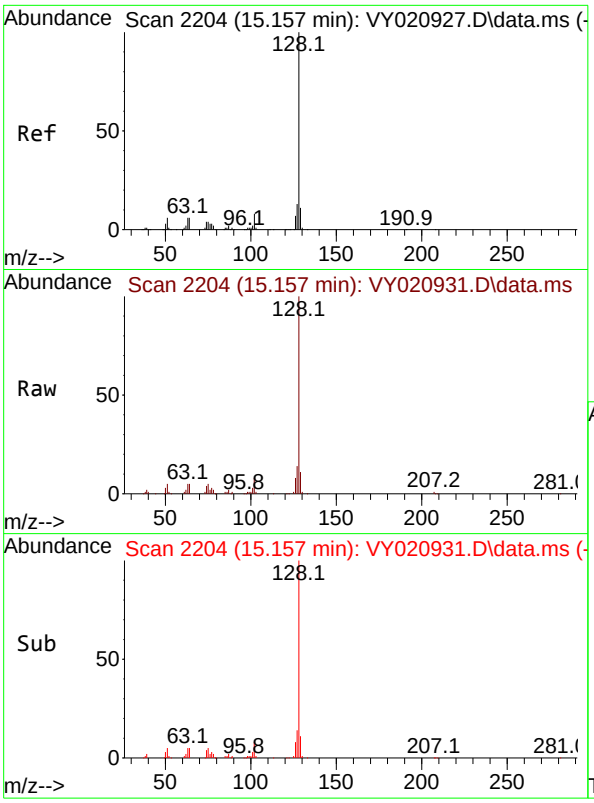




#94
Hexachlorobutadiene
Concen: 19.162 ug/l
RT: 15.035 min Scan# 2184
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:225 Resp: 37927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.0 | 31.5 | 94.5 |
| 227 | 64.6 | 31.9 | 95.9 |






#95
Naphthalene
Concen: 20.180 ug/l
RT: 15.157 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

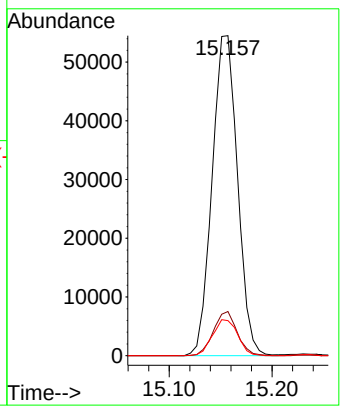
Tgt Ion:128 Resp: 9361

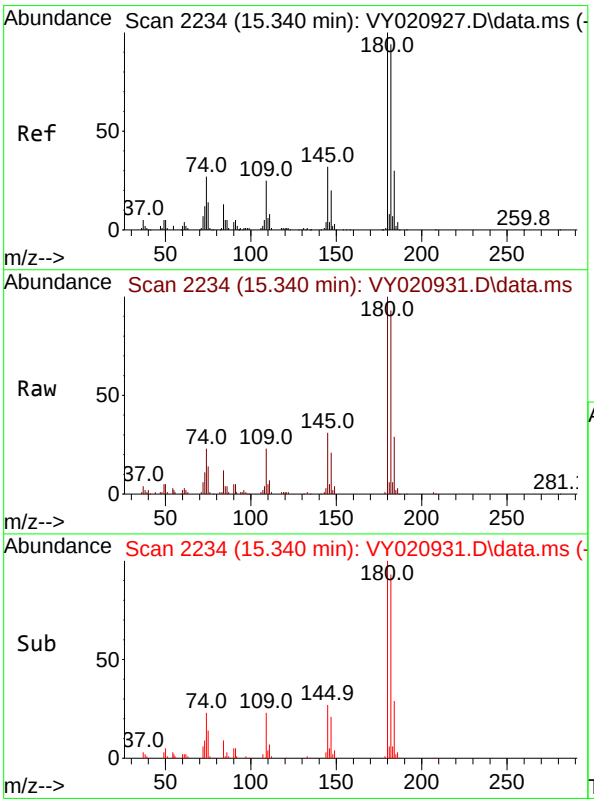
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.3 | 15.5 |
| 129 | 11.2 | 8.8 | 13.2 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

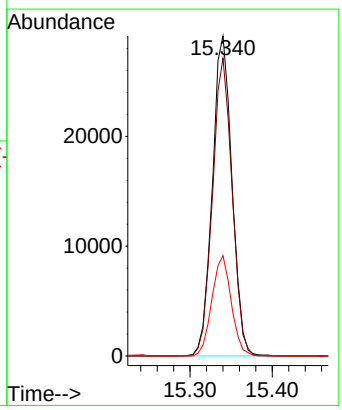



#96
1,2,3-Trichlorobenzene
Concen: 19.859 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020931.D
Acq: 24 Jan 2025 15:36

Tgt Ion:180 Resp: 48266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.0 | 47.5 | 142.6 |
| 145 | 30.9 | 15.7 | 47.0 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020932.D
Acq On : 24 Jan 2025 15:59
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 25 00:49:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

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

**Manual Integrations**
**APPROVED**
Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.720 | 168 | 274018 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 405611 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 339423 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 163193 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 22122 | 10.126 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 20.260%# | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 23633 | 10.149 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 20.300%# | | | |
| 50) Toluene-d8 | 10.115 | 98 | 92057 | 10.192 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 20.380%# | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 30456 | 10.132 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 20.260%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 21631 | 10.437 | ug/l | 96 |
| 3) Chloromethane | 2.074 | 50 | 16929 | 10.982 | ug/l | 97 |
| 4) Vinyl Chloride | 2.208 | 62 | 17914 | 10.663 | ug/l | 97 |
| 5) Bromomethane | 2.605 | 94 | 13214 | 11.613 | ug/l | 98 |
| 6) Chloroethane | 2.745 | 64 | 10400 | 10.551 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 37567 | 10.524 | ug/l | 99 |
| 8) Diethyl Ether | 3.464 | 74 | 11473 | 10.458 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 3.836 | 101 | 24858 | 10.554 | ug/l | 97 |
| 10) Methyl Iodide | 4.019 | 142 | 28491 | 10.150 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 10134 | 60.087 | ug/l # | 84 |
| 12) 1,1-Dichloroethene | 3.806 | 96 | 23441 | 10.539 | ug/l | 93 |
| 13) Acrolein | 3.665 | 56 | 11940 | 52.222 | ug/l | 97 |
| 14) Allyl chloride | 4.403 | 41 | 32252 | 10.389 | ug/l | 96 |
| 15) Acrylonitrile | 5.074 | 53 | 22453 | 52.066 | ug/l | 98 |
| 16) Acetone | 3.879 | 43 | 15893 | 53.691 | ug/l | 93 |
| 17) Carbon Disulfide | 4.117 | 76 | 71488 | 10.407 | ug/l | 98 |
| 18) Methyl Acetate | 4.403 | 43 | 10828 | 10.126 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.135 | 73 | 53833 | 10.449 | ug/l | 98 |
| 20) Methylene Chloride | 4.629 | 84 | 23395 | 10.627 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.135 | 96 | 25204 | 10.510 | ug/l | 87 |
| 22) Diisopropyl ether | 6.031 | 45 | 65207 | 10.442 | ug/l | 94 |
| 23) Vinyl Acetate | 5.970 | 43 | 178870 | 51.756 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.933 | 63 | 41190 | 10.406 | ug/l | 98 |
| 25) 2-Butanone | 6.909 | 43 | 27286 | 54.417 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.897 | 77 | 40667 | 10.430 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.903 | 96 | 28292 | 10.453 | ug/l | 99 |
| 28) Bromochloromethane | 7.256 | 49 | 17140 | 10.759 | ug/l | 95 |
| 29) Tetrahydrofuran | 7.268 | 42 | 17688 | 52.930 | ug/l | 100 |
| 30) Chloroform | 7.433 | 83 | 43413 | 10.362 | ug/l | 100 |
| 31) Cyclohexane | 7.707 | 56 | 41740 | 10.729 | ug/l # | 94 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 42440 | 10.444 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.848 | 75 | 33395 | 10.272 | ug/l | 99 |
| 37) Ethyl Acetate | 6.994 | 43 | 13693 | 10.856 | ug/l # | 91 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 40759 | 10.396 | ug/l | 94 |
| 39) Methylcyclohexane | 9.116 | 83 | 44847 | 10.189 | ug/l | 97 |
| 40) Benzene | 8.091 | 78 | 100069 | 10.492 | ug/l | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020932.D
Acq On : 24 Jan 2025 15:59
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 25 00:49:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

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

**Manual Integrations**
**APPROVED**
Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 6316 | 9.479 ug/l # | 92 |
| 42) 1,2-Dichloroethane | 8.165 | 62 | 24497 | 10.322 ug/l | 98 |
| 43) Isopropyl Acetate | 8.207 | 43 | 24458 | 10.225 ug/l | 99 |
| 44) Trichloroethene | 8.872 | 130 | 27248 | 10.516 ug/l | 99 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 21926 | 10.414 ug/l | 94 |
| 46) Dibromomethane | 9.238 | 93 | 12568 | 10.500 ug/l | 97 |
| 47) Bromodichloromethane | 9.427 | 83 | 33393 | 10.485 ug/l | 99 |
| 48) Methyl methacrylate | 9.231 | 41 | 11471 | 10.167 ug/l | 97 |
| 49) 1,4-Dioxane | 9.244 | 88 | 2560 | 207.730 ug/l # | 80 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 61838 | 51.273 ug/l | 99 |
| 52) Toluene | 10.176 | 92 | 63762 | 10.395 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 29612 | 10.141 ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 35379 | 10.147 ug/l | 96 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 16306 | 10.079 ug/l | 96 |
| 56) Ethyl methacrylate | 10.445 | 69 | 20369 | 9.607 ug/l | 98 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 28488 | 10.365 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 48432 | 50.327 ug/l | 100 |
| 59) 2-Hexanone | 10.768 | 43 | 38811 | 50.045 ug/l | 99 |
| 60) Dibromochloromethane | 10.920 | 129 | 23430 | 10.290 ug/l | 98 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 16250 | 10.501 ug/l | 99 |
| 64) Tetrachloroethene | 10.652 | 164 | 24496 | 10.370 ug/l | 94 |
| 65) Chlorobenzene | 11.451 | 112 | 69158 | 10.419 ug/l | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 24617 | 10.437 ug/l | 99 |
| 67) Ethyl Benzene | 11.524 | 91 | 119619 | 10.328 ug/l | 97 |
| 68) m/p-Xylenes | 11.640 | 106 | 91917 | 20.726 ug/l | 100 |
| 69) o-Xylene | 11.963 | 106 | 43049 | 10.392 ug/l | 99 |
| 70) Styrene | 11.975 | 104 | 70805 | 10.429 ug/l | 99 |
| 71) Bromoform | 12.139 | 173 | 13749 | 10.294 ug/l # | 100 |
| 73) Isopropylbenzene | 12.261 | 105 | 114092 | 10.151 ug/l | 98 |
| 74) N-amyl acetate | 12.079 | 43 | 19347 | 9.674 ug/l | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 18481 | 10.568 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 11282m | 9.778 ug/l | |
| 77) Bromobenzene | 12.542 | 156 | 27354 | 10.383 ug/l | 99 |
| 78) n-propylbenzene | 12.603 | 91 | 134496 | 10.273 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 77569 | 10.446 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 94030 | 10.412 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 6317 | 10.577 ug/l | 99 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 78866 | 10.401 ug/l | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 84952 | 10.198 ug/l | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.054 | 105 | 92390 | 10.392 ug/l | 98 |
| 85) sec-Butylbenzene | 13.182 | 105 | 123235 | 10.376 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 103320 | 10.297 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.298 | 146 | 53471 | 10.599 ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 52287 | 10.550 ug/l | 97 |
| 89) n-Butylbenzene | 13.627 | 91 | 89379 | 10.099 ug/l | 100 |
| 90) Hexachloroethane | 13.889 | 117 | 20431 | 10.250 ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 13.670 | 146 | 45955 | 10.514 ug/l | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 2699 | 10.274 ug/l | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 25660 | 9.759 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 18077 | 10.048 ug/l | 99 |
| 95) Naphthalene | 15.157 | 128 | 38582 | 9.150 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 21166 | 9.581 ug/l | 97 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020932.D
Acq On : 24 Jan 2025 15:59
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Jan 25 00:49:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

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

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

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020932.D
Acq On : 24 Jan 2025 15:59
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 25 00:49:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

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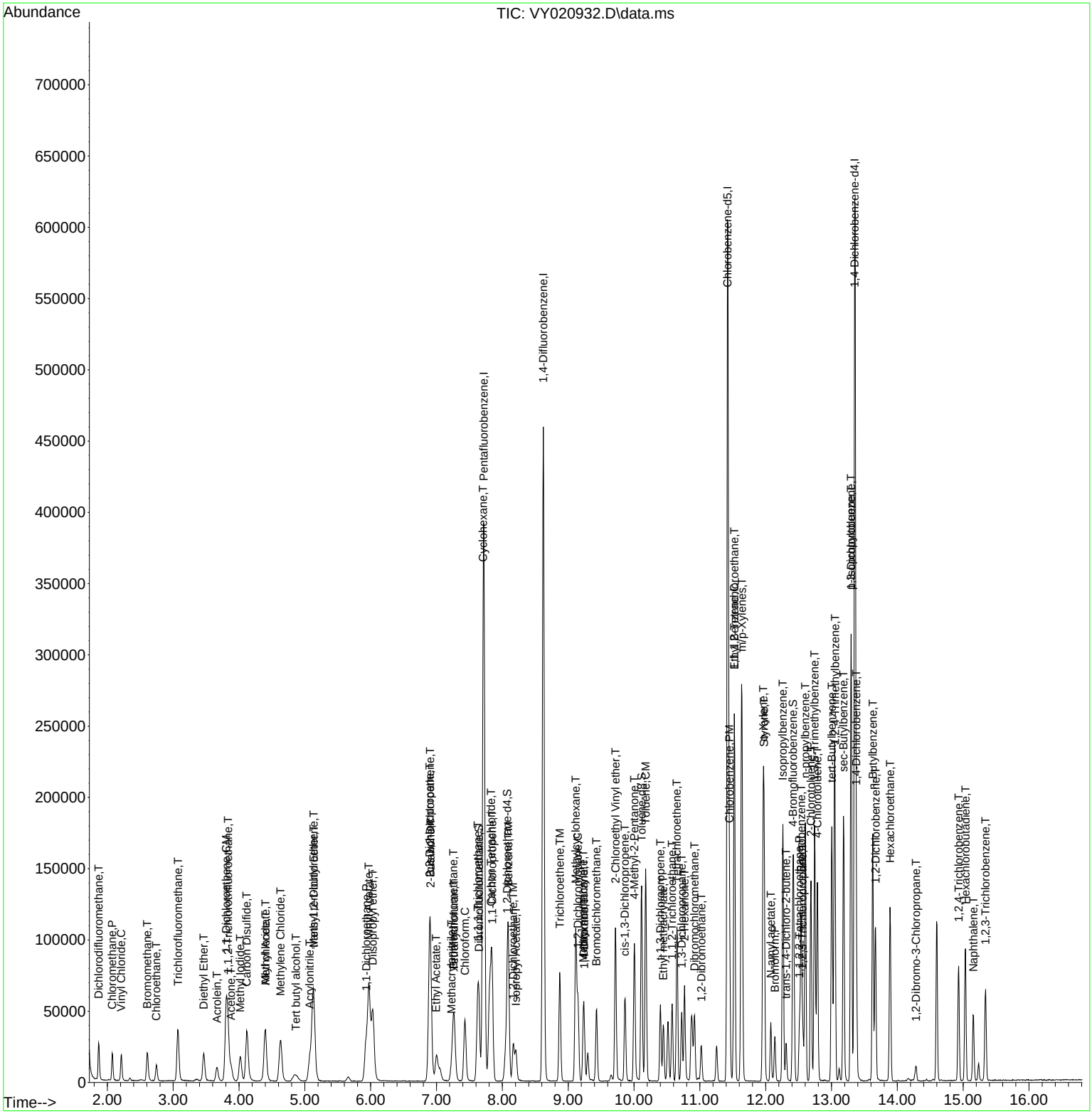

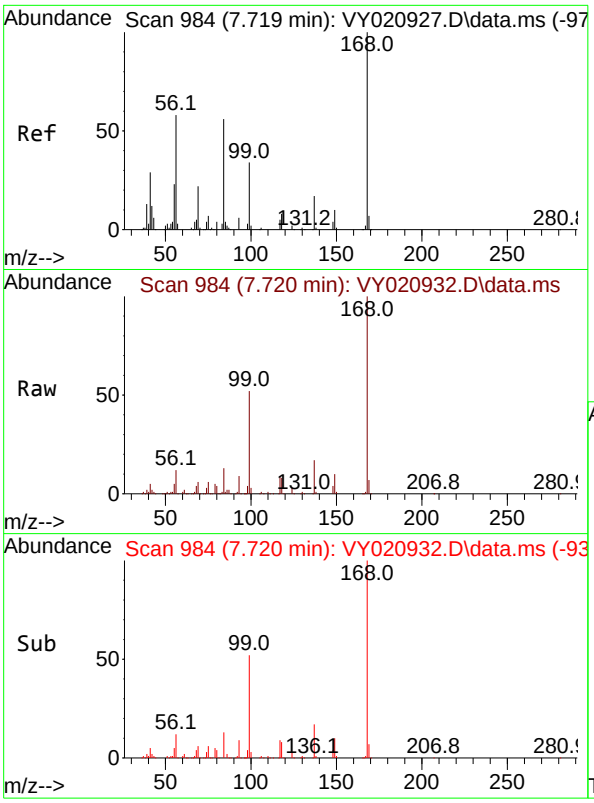


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 9
Delta R.T. 0.001 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:168 Resp: 27401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.9 | 43.0 | 64.6 |

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

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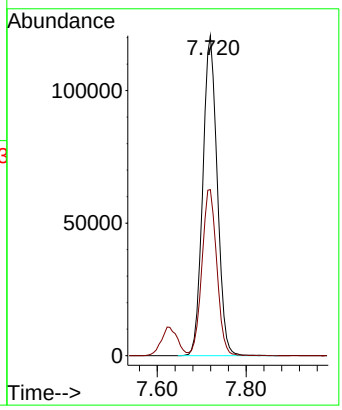
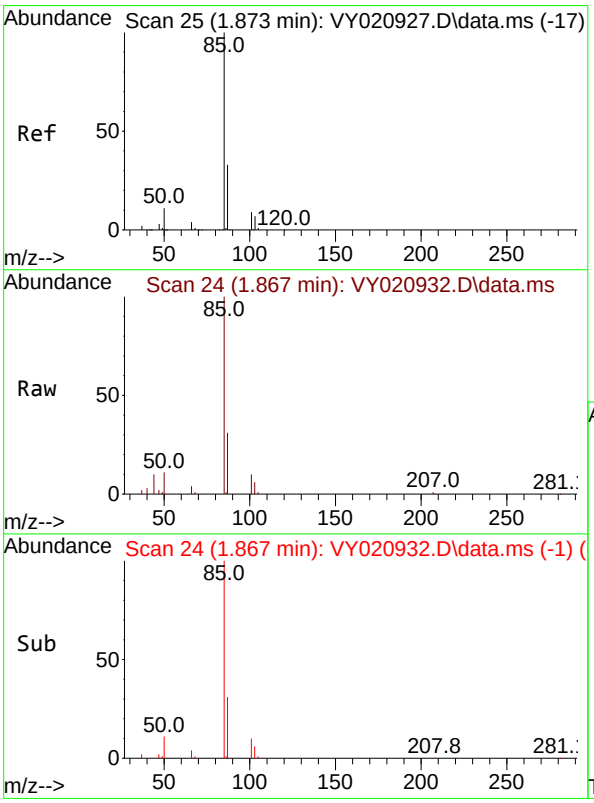
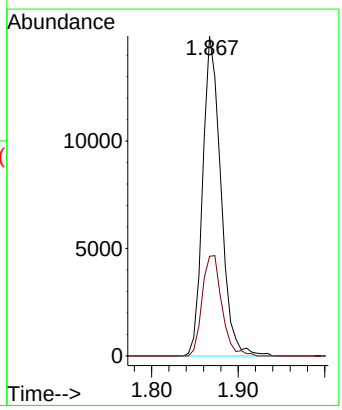


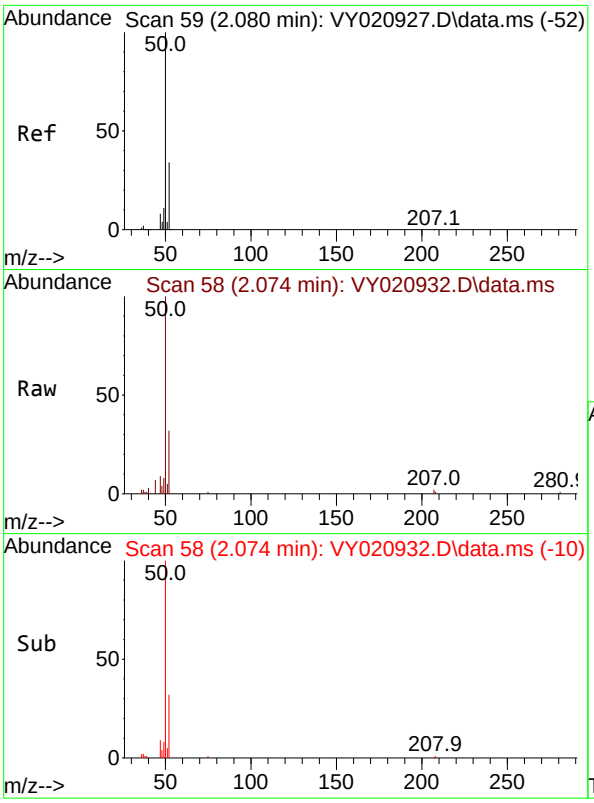




#2
Dichlorodifluoromethane
Concen: 10.437 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 85 Resp: 21631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.1 | 16.6 | 49.8 |






#3
Chloromethane
Concen: 10.982 ug/l
RT: 2.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 50 Resp: 1692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.5 | 27.4 | 41.0 |

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

**Manual Integrations**
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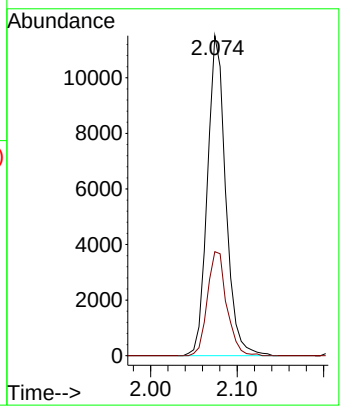
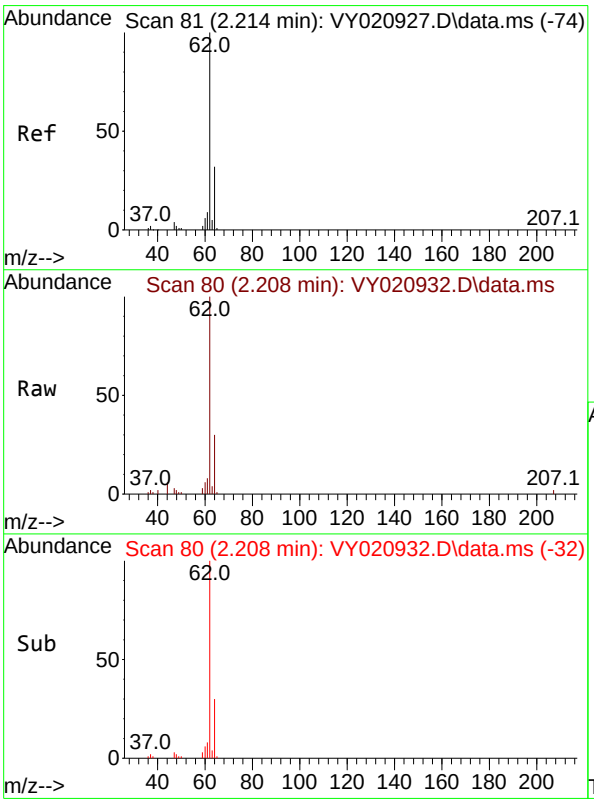
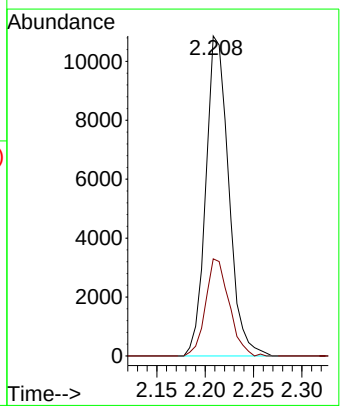


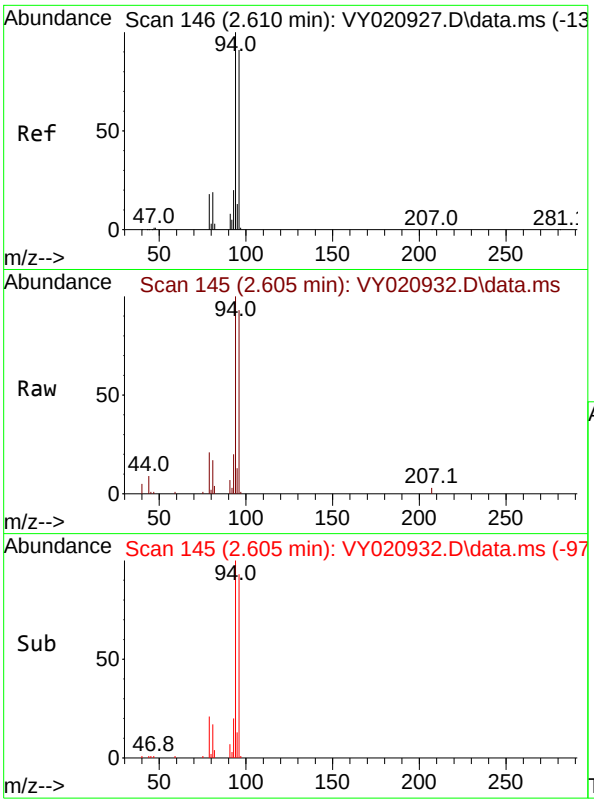




#4
Vinyl Chloride
Concen: 10.663 ug/l
RT: 2.208 min Scan# 80
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 62 Resp: 17914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.3 | 25.7 | 38.5 |






#5
Bromomethane
Concen: 11.613 ug/l
RT: 2.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 94 Resp: 13214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.7 | 72.6 | 109.0 |

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

**Manual Integrations**
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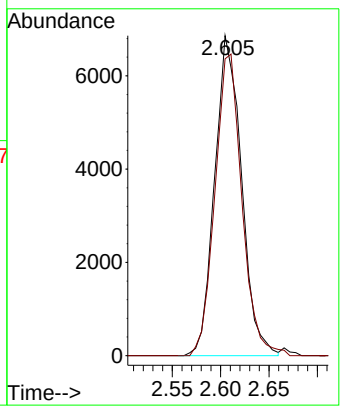
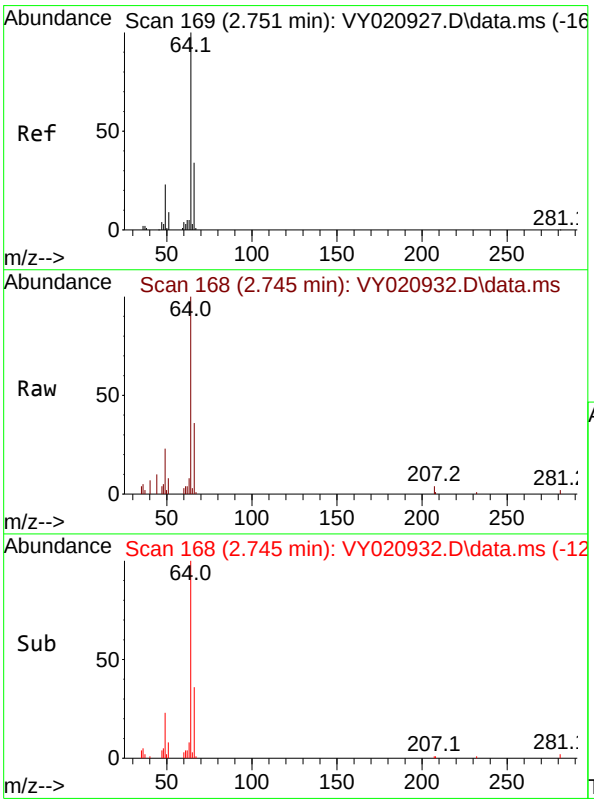
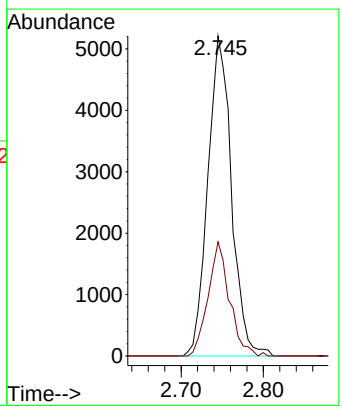


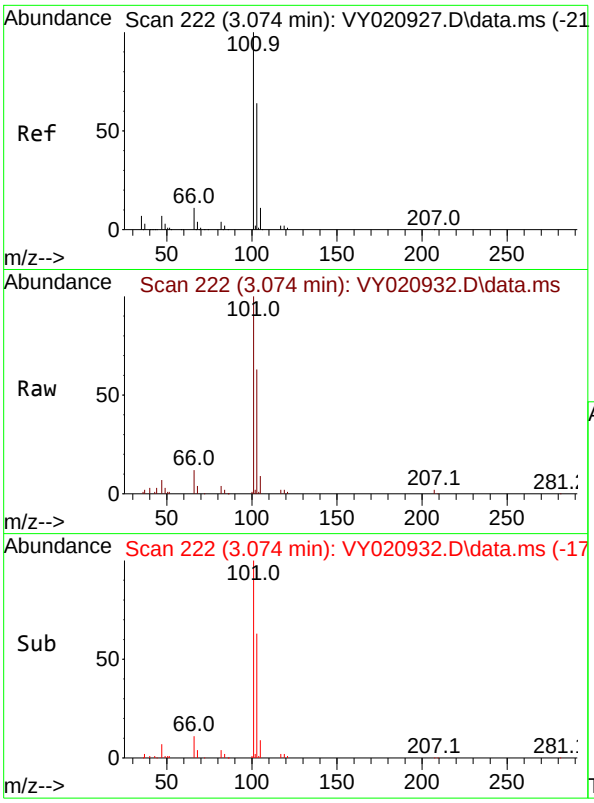




#6
Chloroethane
Concen: 10.551 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 64 Resp: 10400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 35.7 | 26.9 | 40.3 |






#7
Trichlorofluoromethane
Concen: 10.524 ug/l
RT: 3.074 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:101 Resp: 3756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.8 | 51.0 | 76.4 |

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

**Manual Integrations**
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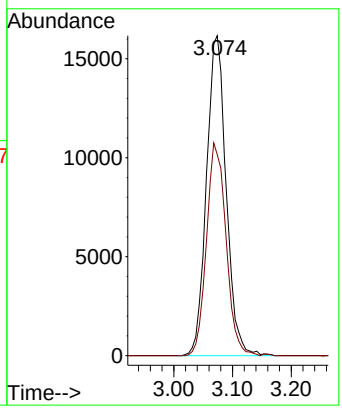
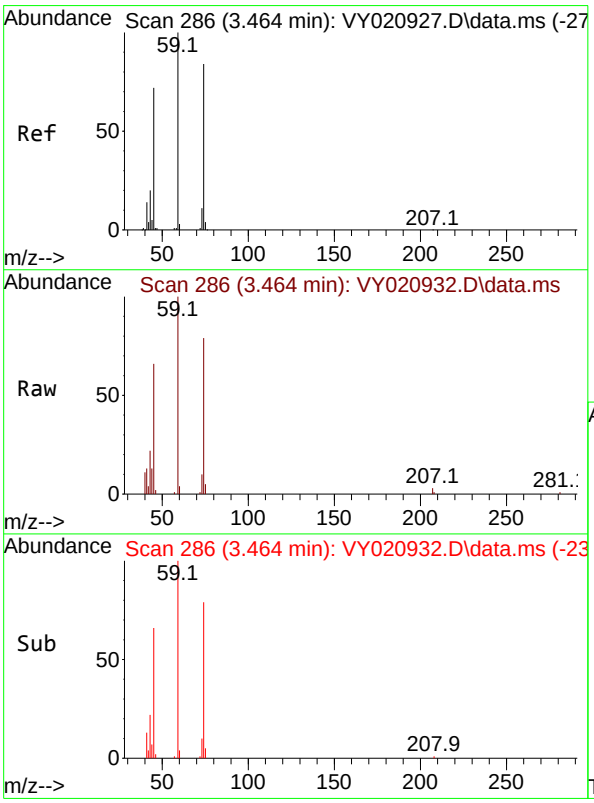
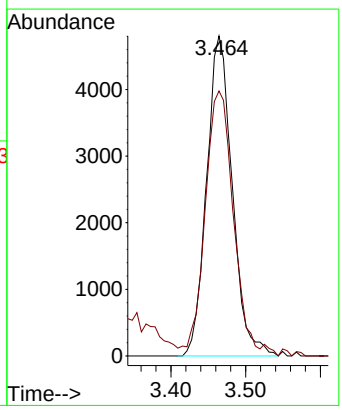


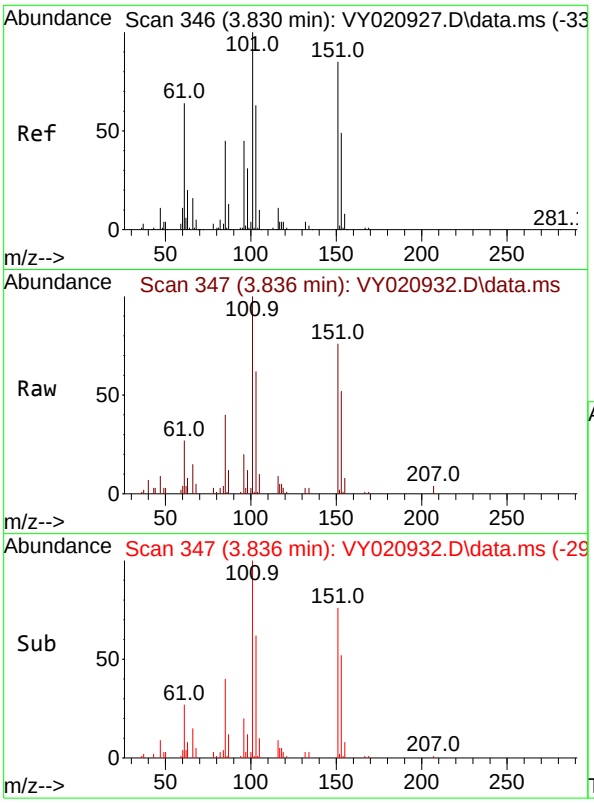




#8
Diethyl Ether
Concen: 10.458 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 74 Resp: 11473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 86.1 | 45.1 | 135.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.554 ug/l
RT: 3.836 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:101 Resp: 2485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 42.5 | 35.4 | 53.2 |
| 151 | 80.2 | 66.3 | 99.5 |

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

**Manual Integrations**
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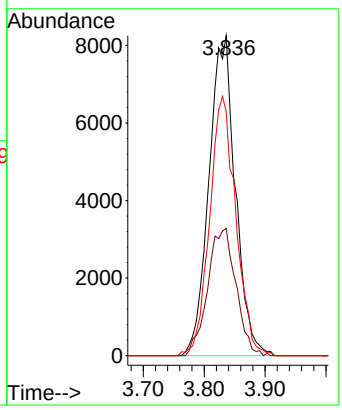
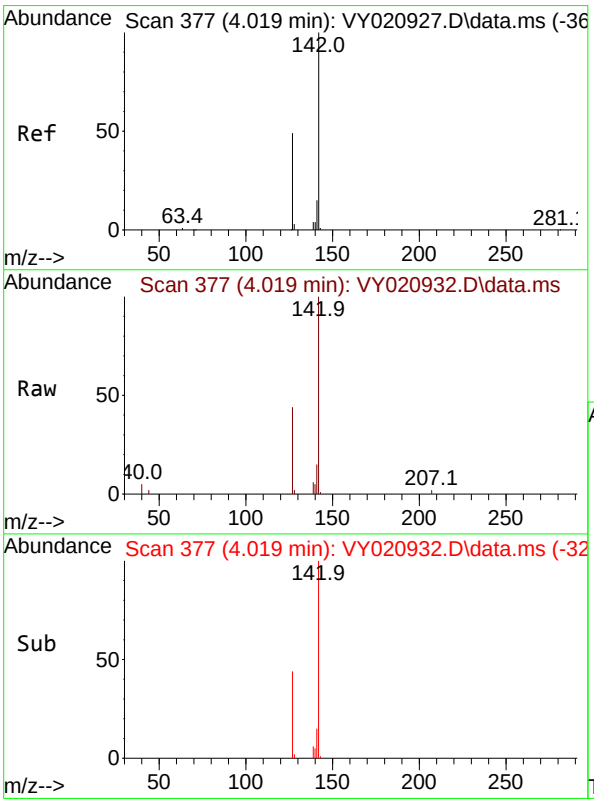
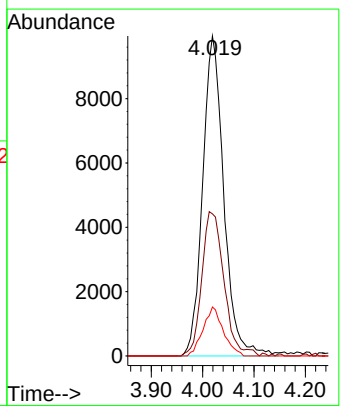


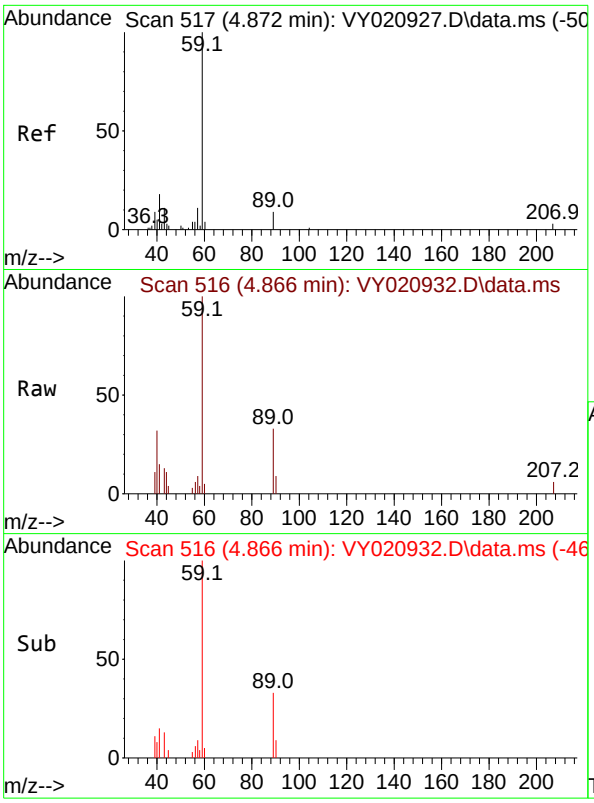




#10
Methyl Iodide
Concen: 10.150 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:142 Resp: 28491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 47.0 | 37.3 | 55.9 |
| 141 | 14.6 | 11.4 | 17.2 |






#11
Tert butyl alcohol
Concen: 60.087 ug/l
RT: 4.866 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 59 Resp: 1013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 3.6 | 7.7 | 11.5 |

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

**Manual Integrations**
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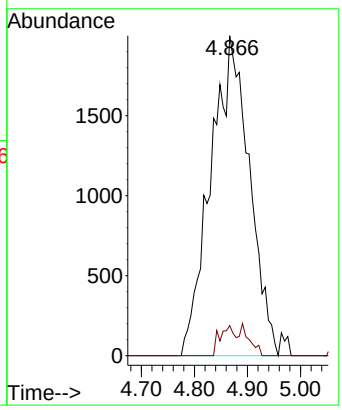
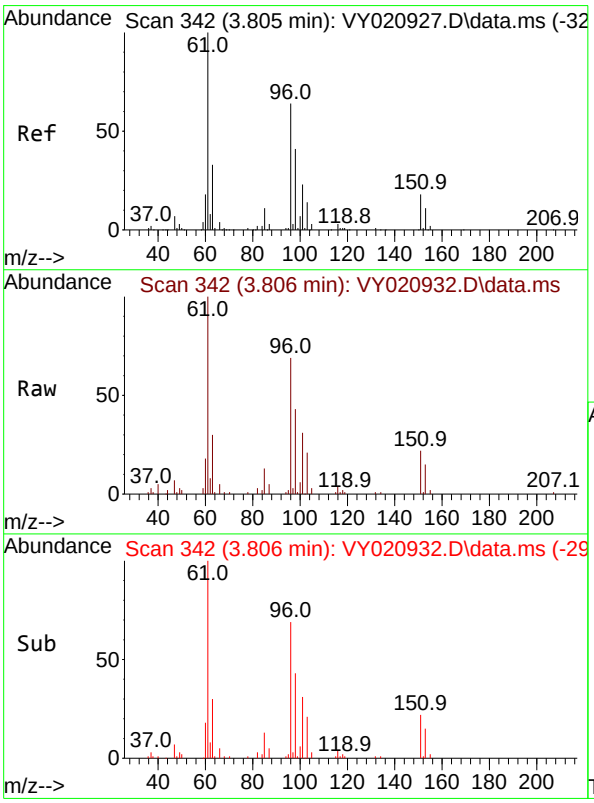
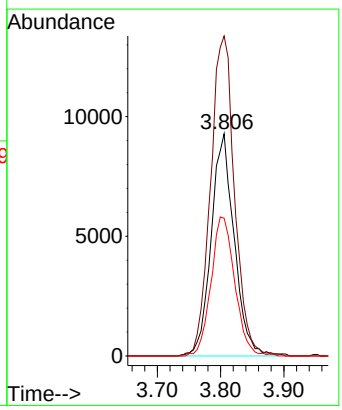


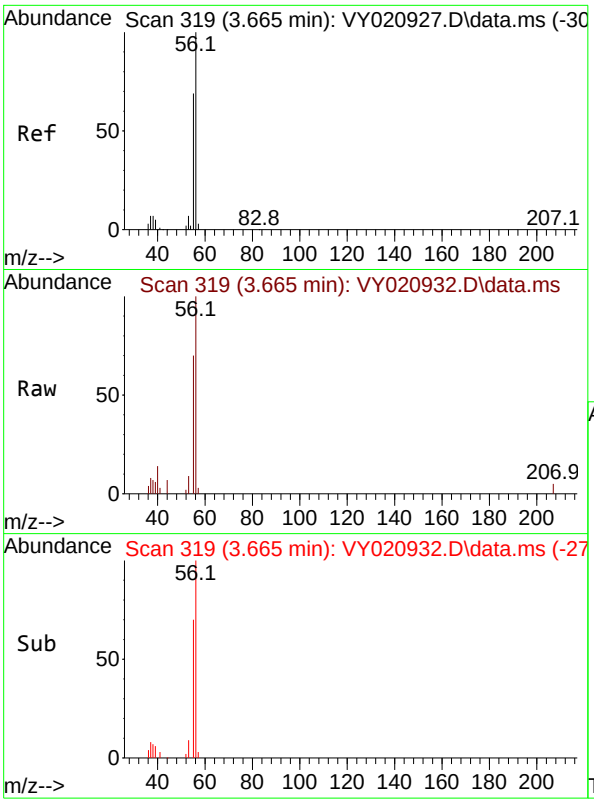




#12
1,1-Dichloroethene
Concen: 10.539 ug/l
RT: 3.806 min Scan# 342
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 96 Resp: 23441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.0 | 124.5 | 186.7 |
| 98 | 62.0 | 50.5 | 75.7 |






#13
Acrolein
Concen: 52.222 ug/l
RT: 3.665 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 56 Resp: 1194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.6 | 54.6 | 81.8 |

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

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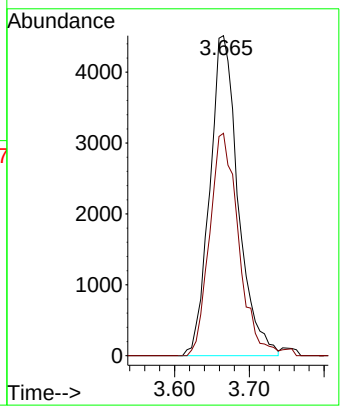
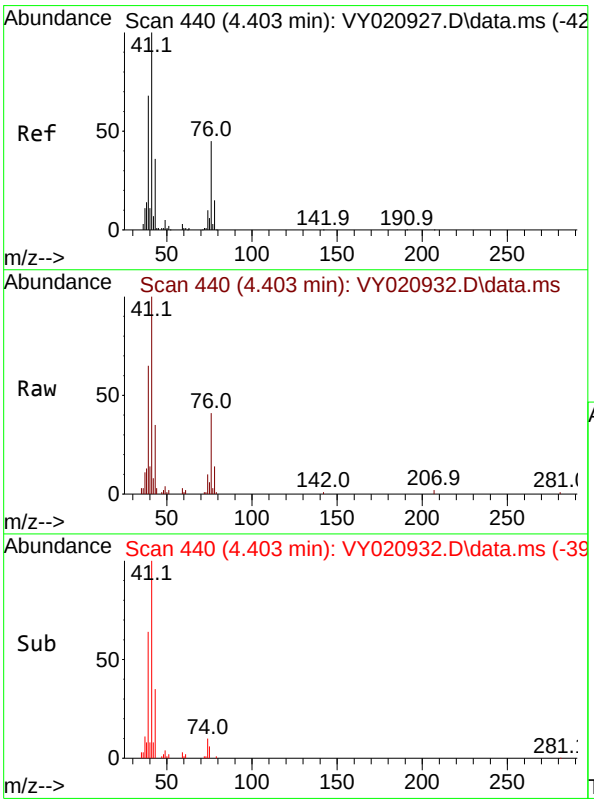
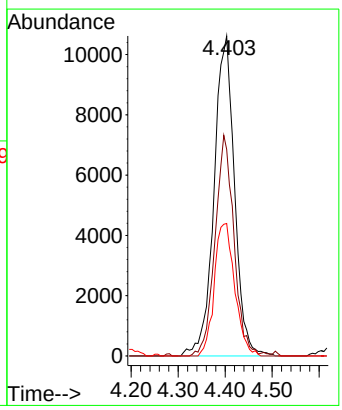


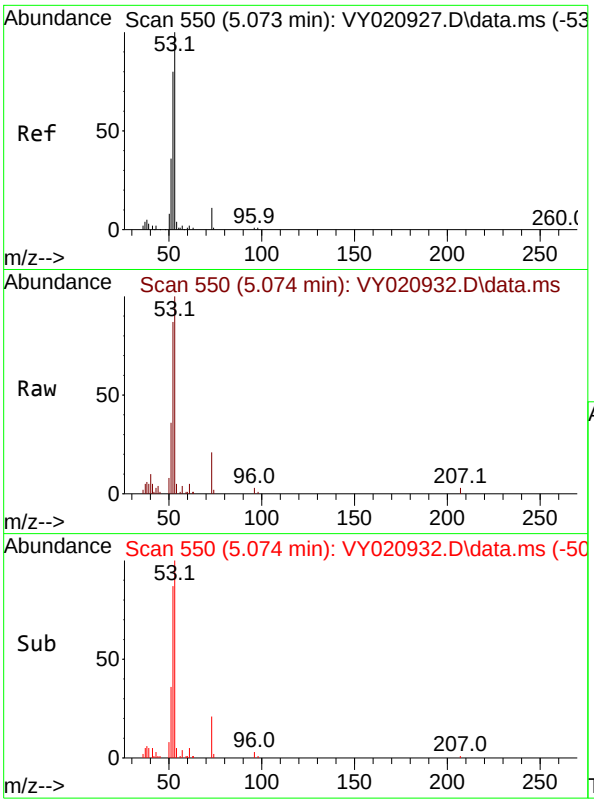




#14
Allyl chloride
Concen: 10.389 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 41 Resp: 32252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 63.5 | 53.8 | 80.6 |
| 76 | 41.1 | 34.2 | 51.4 |






#15
Acrylonitrile
Concen: 52.066 ug/l
RT: 5.074 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 53 Resp: 2245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.8 | 64.5 | 96.7 |
| 51 | 36.0 | 28.9 | 43.3 |

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

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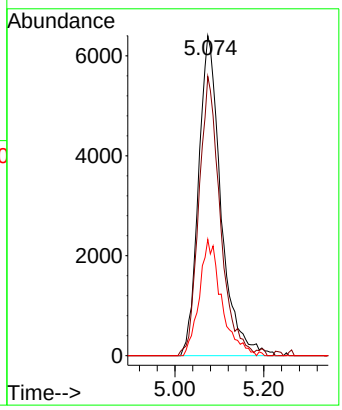
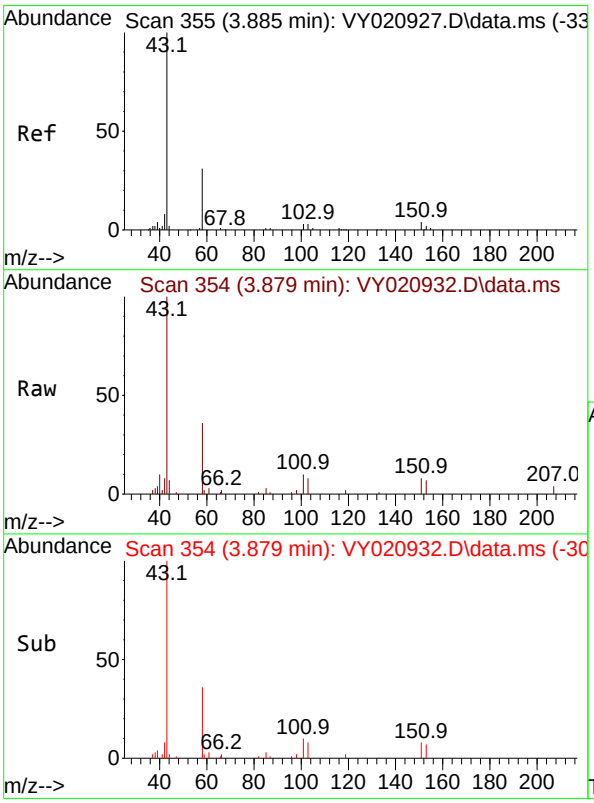
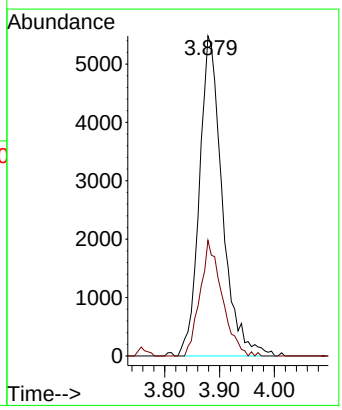


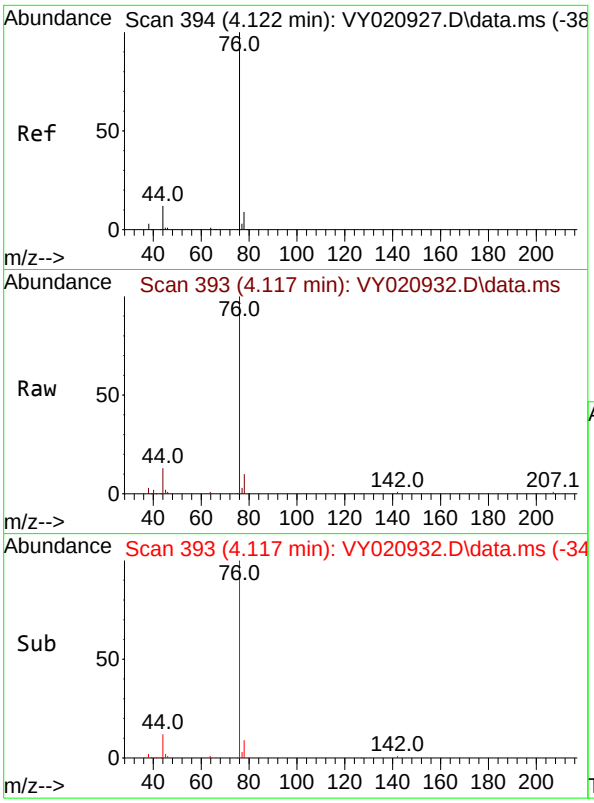




#16
Acetone
Concen: 53.691 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 43 Resp: 15893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.1 | 25.6 | 38.4 |






#17
Carbon Disulfide
Concen: 10.407 ug/l
RT: 4.117 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 76 Resp: 7148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.7 | 7.2 | 10.8 |

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

**Manual Integrations**
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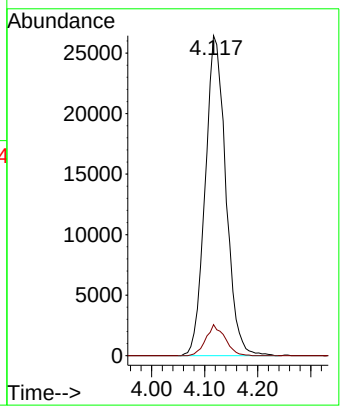
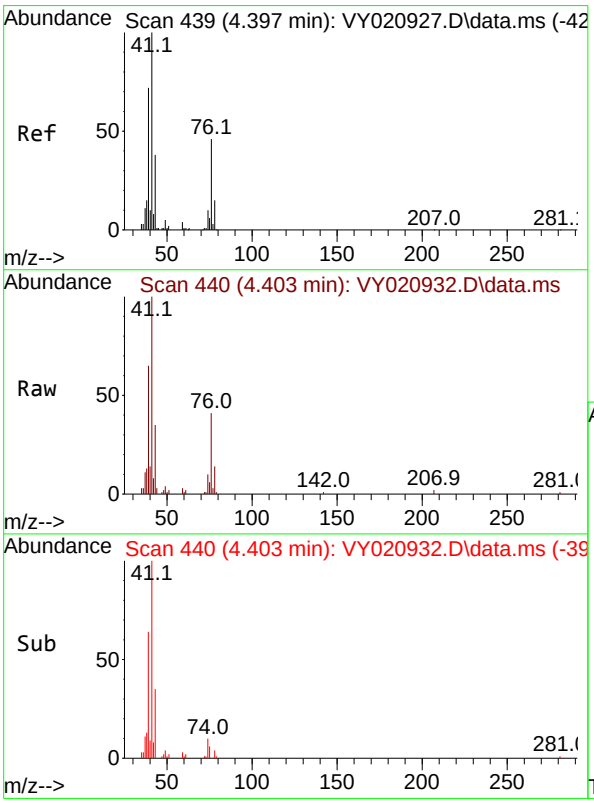
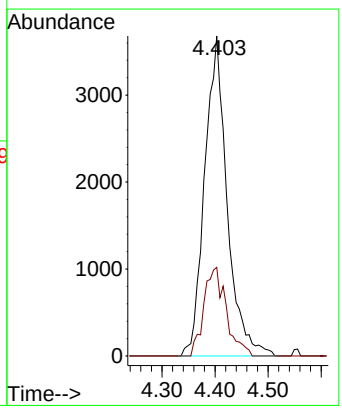


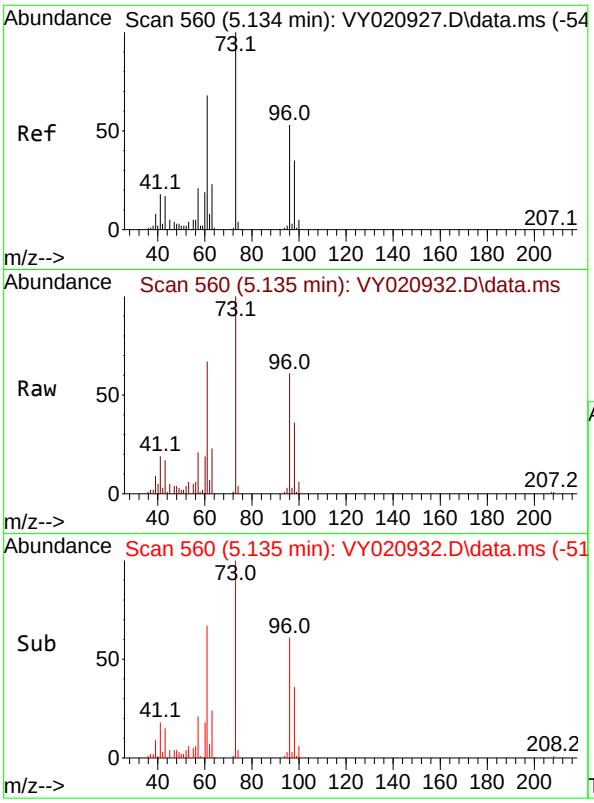




#18
Methyl Acetate
Concen: 10.126 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 43 Resp: 10828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.5 | 21.0 | 31.6 |






#19
Methyl tert-butyl Ether
Concen: 10.449 ug/l
RT: 5.135 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

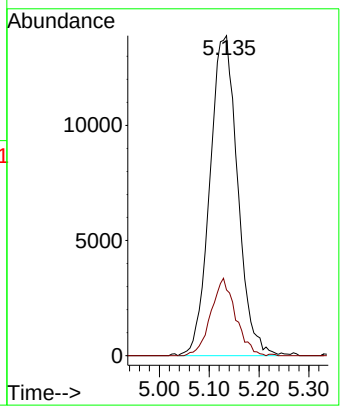
Tgt Ion: 73 Resp: 5383

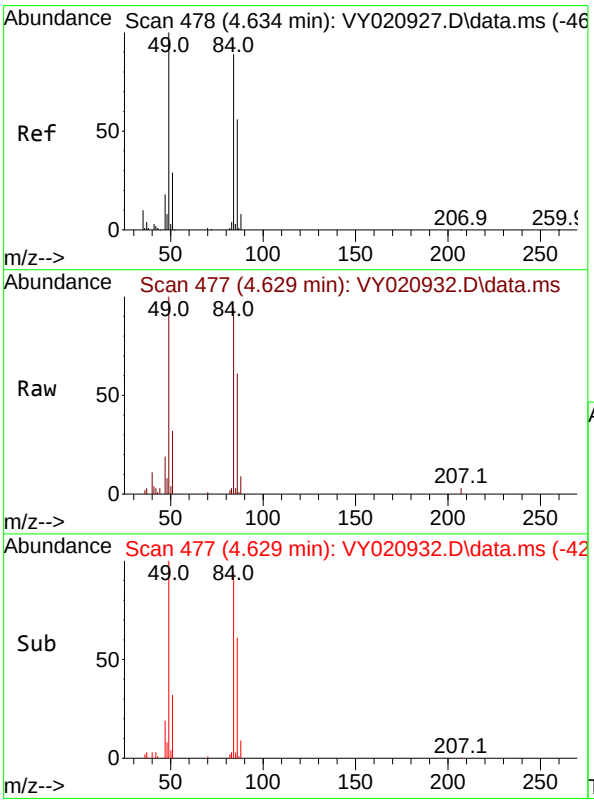
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.6 | 17.0 | 25.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

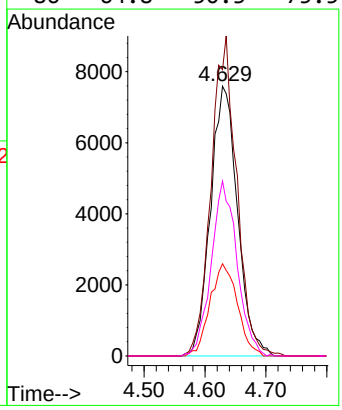


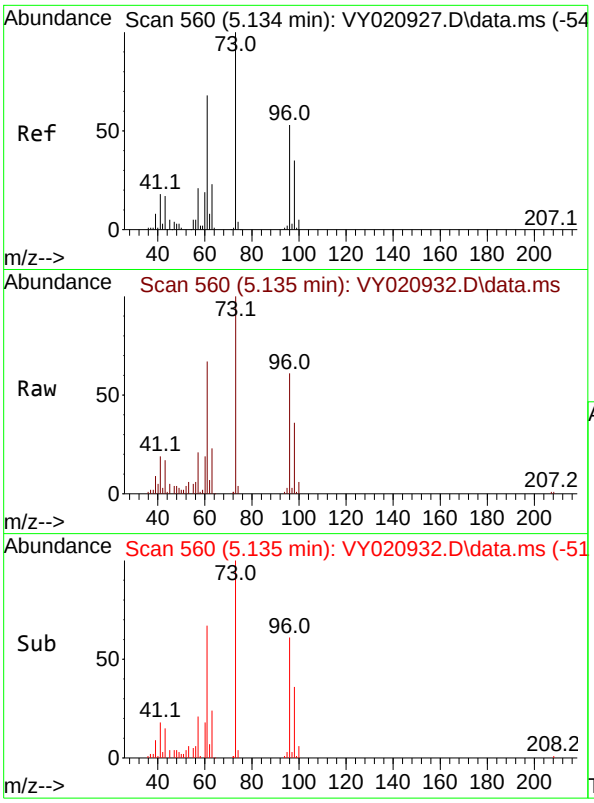




#20
Methylene Chloride
Concen: 10.627 ug/l
RT: 4.629 min Scan# 477
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 84 Resp: 23395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 106.1 | 90.3 | 135.5 |
| 51 | 34.1 | 26.6 | 39.8 |
| 86 | 64.8 | 50.3 | 75.5 |






#21
trans-1,2-Dichloroethene
Concen: 10.510 ug/l
RT: 5.135 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

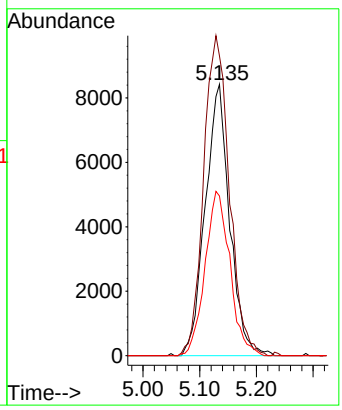
Tgt Ion: 96 Resp: 2520

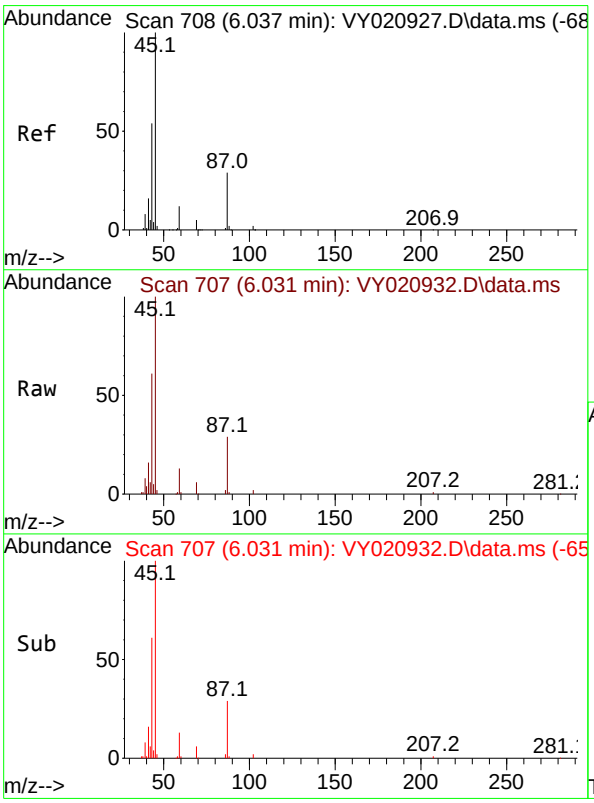
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 110.4 | 102.4 | 153.6 |
| 98 | 58.8 | 52.0 | 78.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

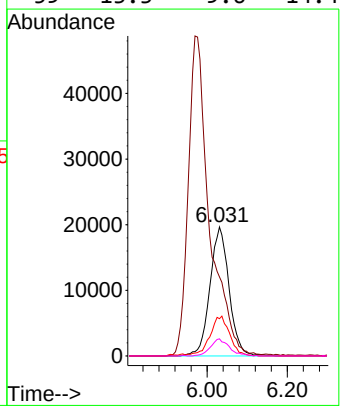


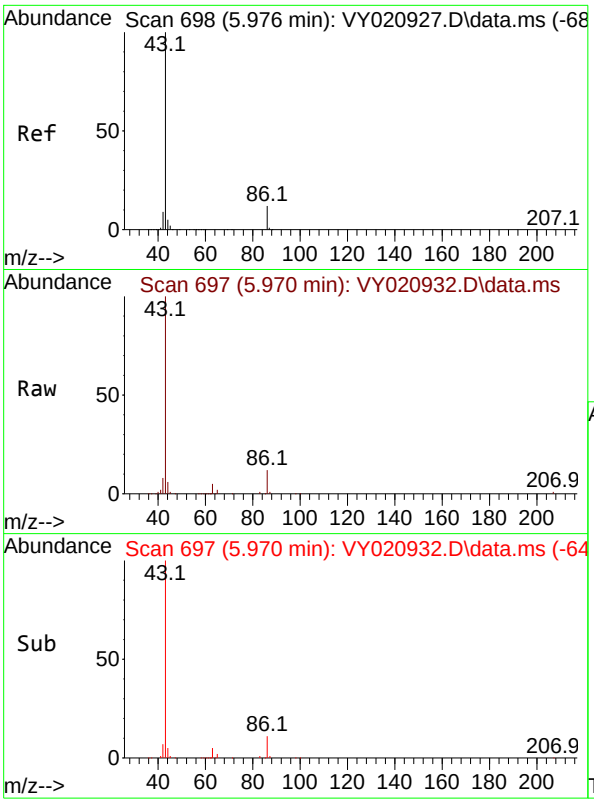




#22
Diisopropyl ether
Concen: 10.442 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 45 Resp: 65207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 60.3 | 43.2 | 64.8 |
| 87 | 29.0 | 23.4 | 35.0 |
| 59 | 13.3 | 9.6 | 14.4 |






#23
Vinyl Acetate
Concen: 51.756 ug/l
RT: 5.970 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

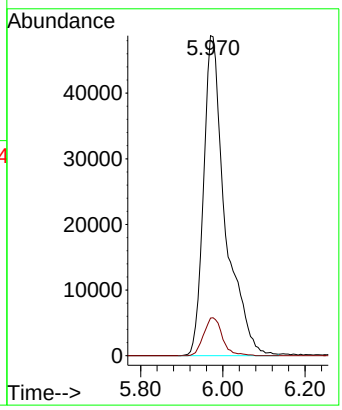
Tgt Ion: 43 Resp: 178870

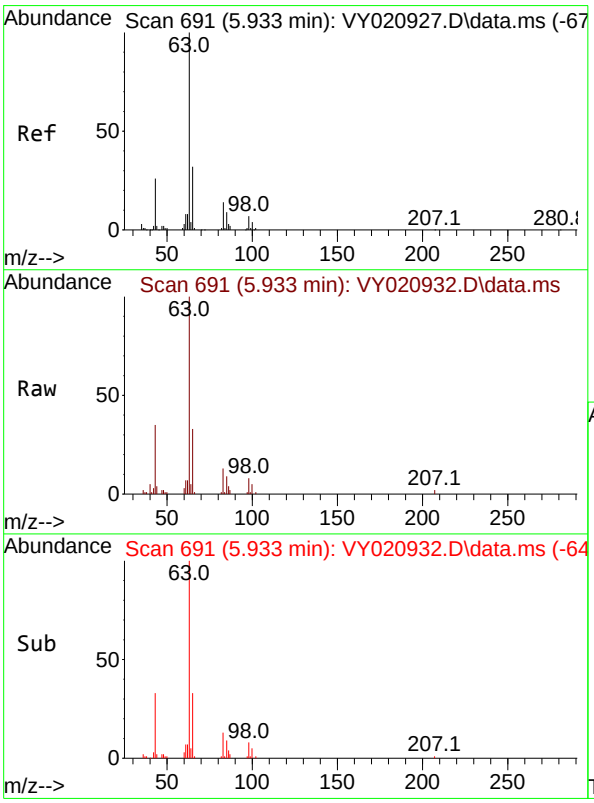
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.8 | 9.8 | 14.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

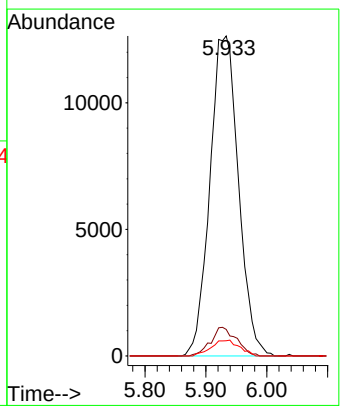


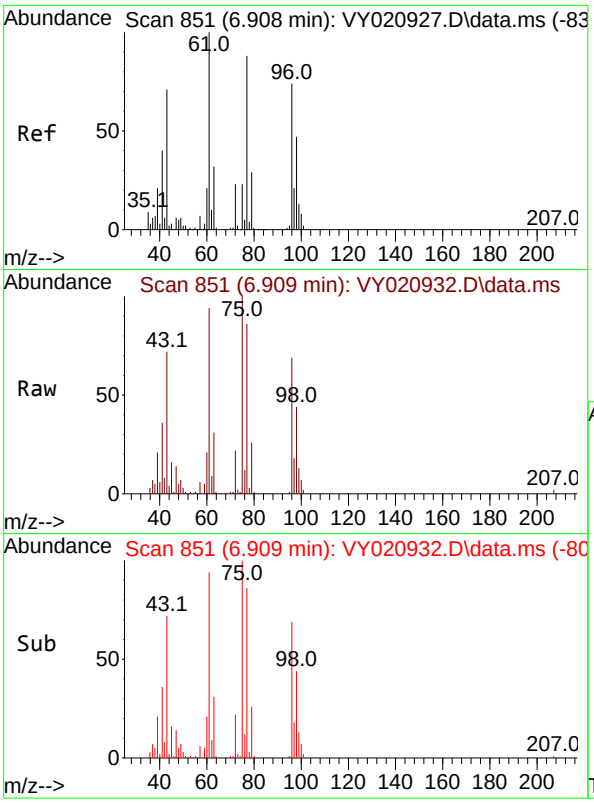




#24
1,1-Dichloroethane
Concen: 10.406 ug/l
RT: 5.933 min Scan# 691
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 63 Resp: 41190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.3 | 3.7 | 11.1 |
| 100 | 4.8 | 2.3 | 6.8 |






#25
2-Butanone
Concen: 54.417 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

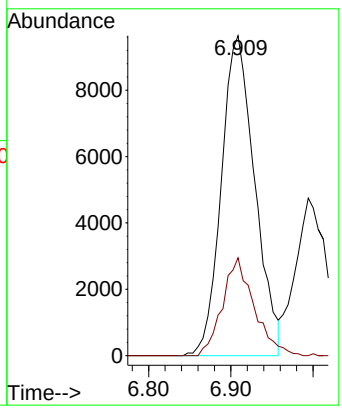
Tgt Ion: 43 Resp: 2728

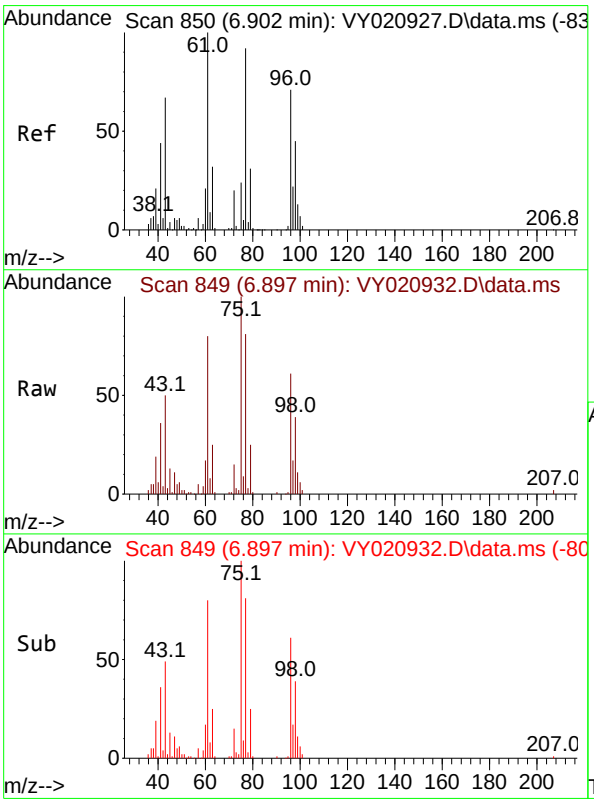
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.6 | 25.8 | 38.8 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

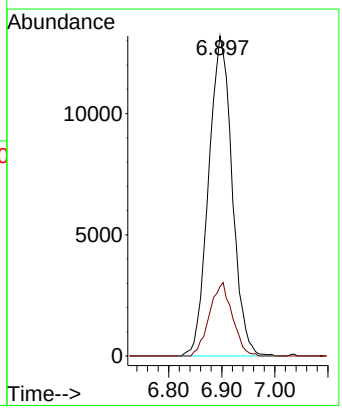


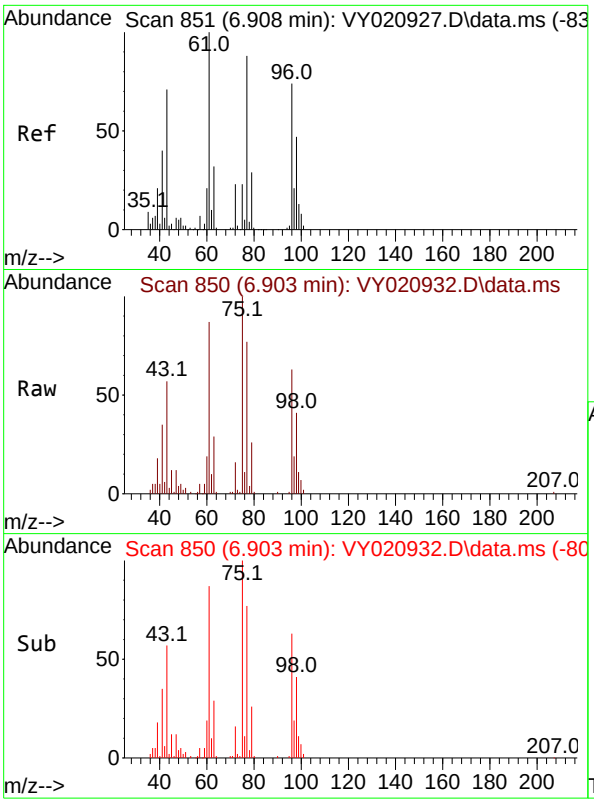




#26
2,2-Dichloropropane
Concen: 10.430 ug/l
RT: 6.897 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 77 Resp: 40667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.4 | 11.7 | 35.1 |






#27
cis-1,2-Dichloroethene
Concen: 10.453 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

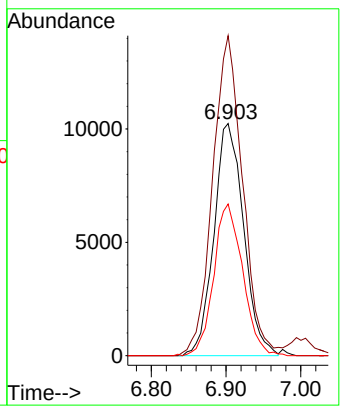
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

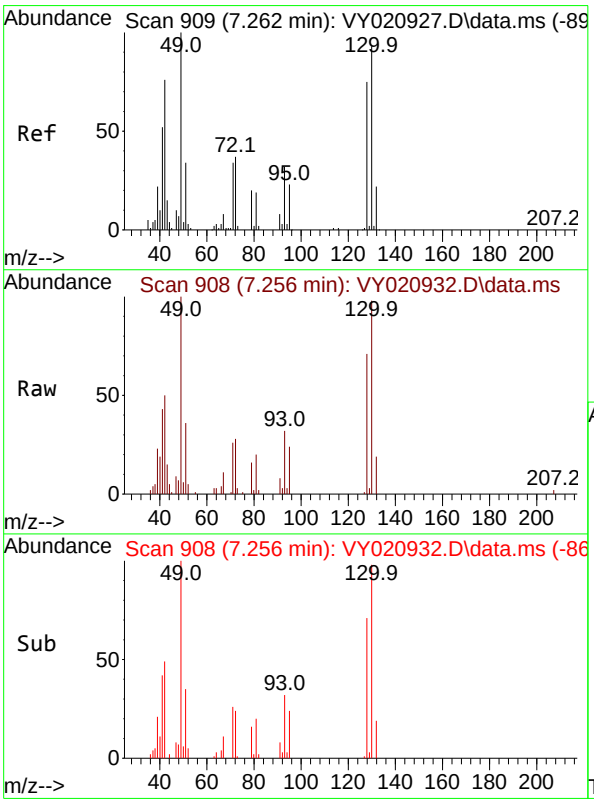
Tgt Ion: 96 Resp: 2829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.4 | 0.0 | 275.2 |
| 98 | 63.8 | 0.0 | 129.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

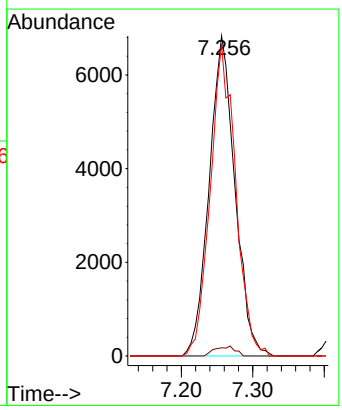


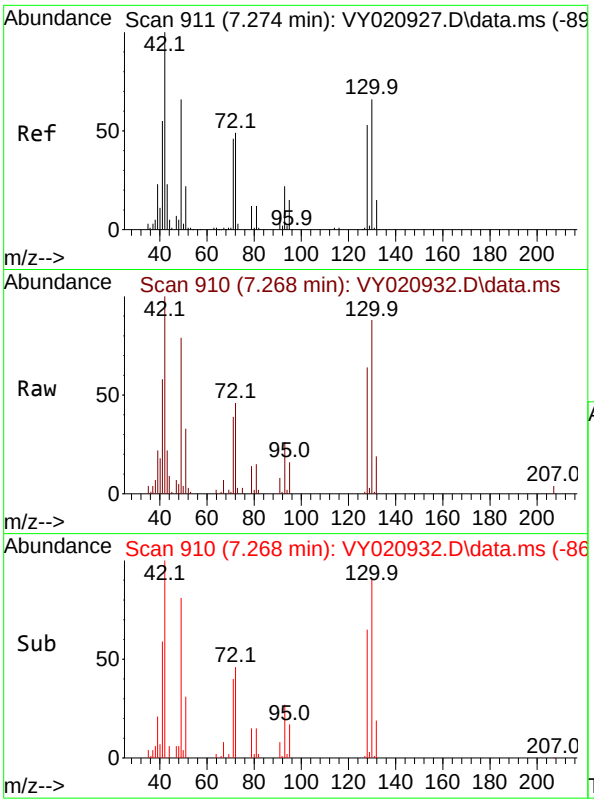




#28
Bromochloromethane
Concen: 10.759 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 49 Resp: 17140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.4 | 0.0 | 4.6 |
| 130 | 95.4 | 72.6 | 109.0 |






#29
Tetrahydrofuran
Concen: 52.930 ug/l
RT: 7.268 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

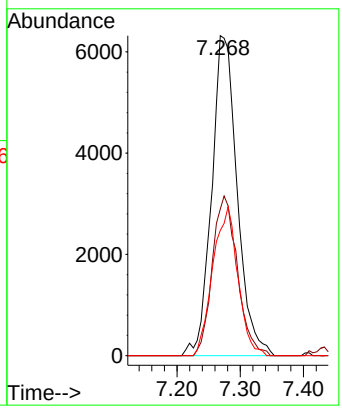
Tgt Ion: 42 Resp: 1768

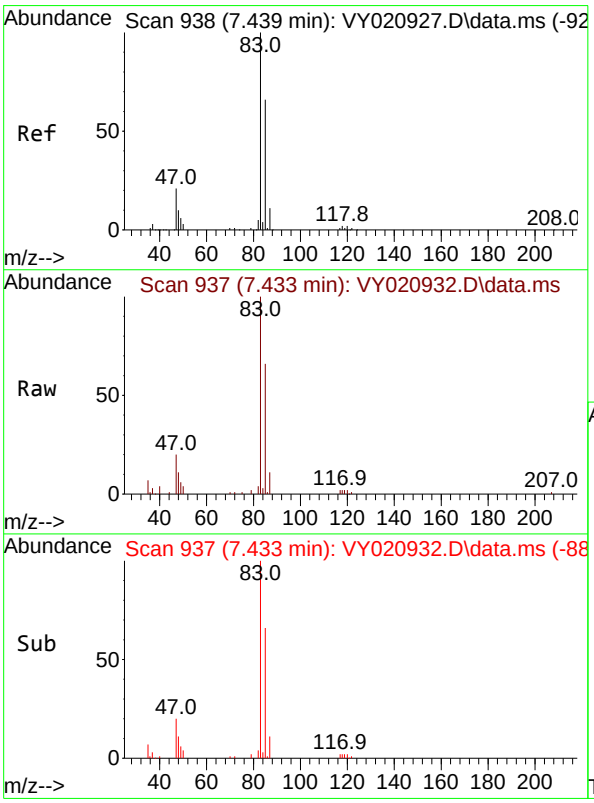
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 49.0 | 38.8 | 58.2 |
| 71 | 45.6 | 36.4 | 54.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

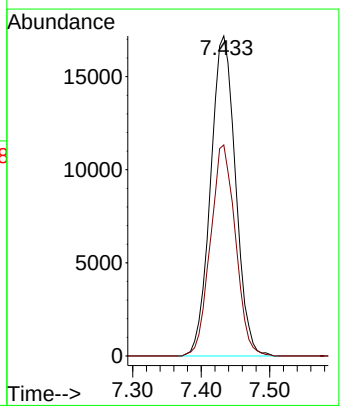


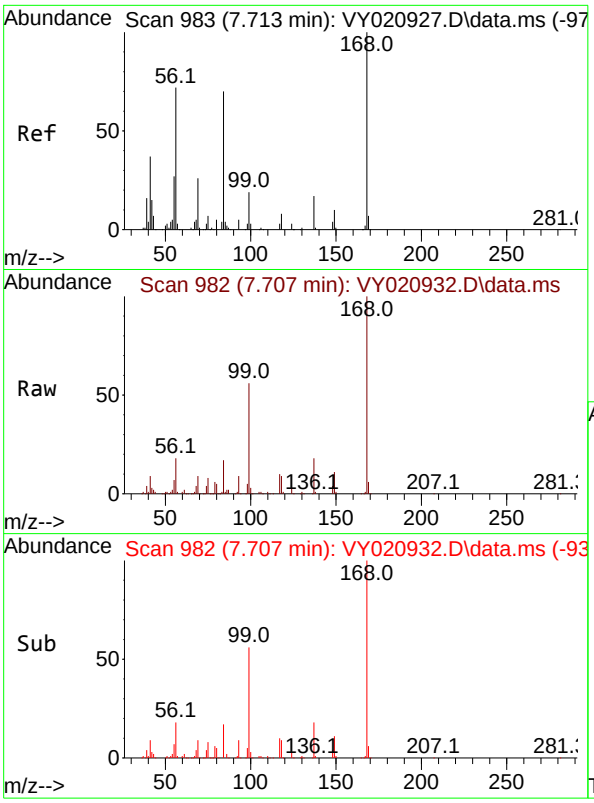




#30
Chloroform
Concen: 10.362 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 83 Resp: 43413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.9 | 53.0 | 79.4 |






#31
Cyclohexane
Concen: 10.729 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

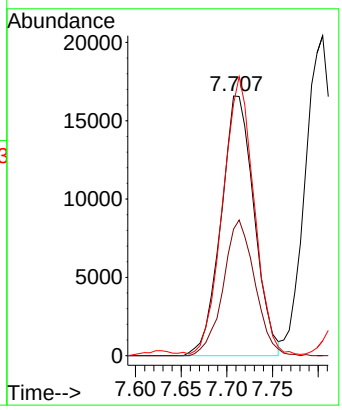
Tgt Ion: 56 Resp: 4174

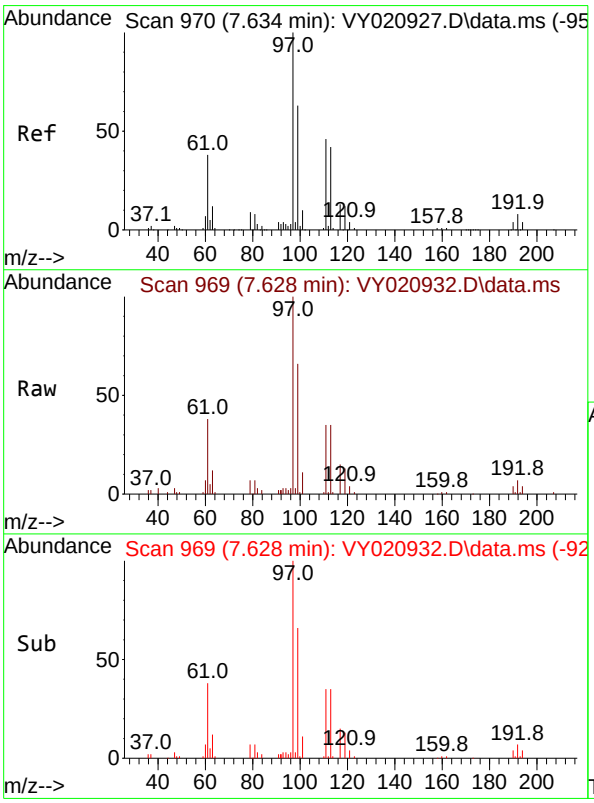
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 48.8 | 28.7 | 43.1 |
| 84 | 96.1 | 77.4 | 116.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

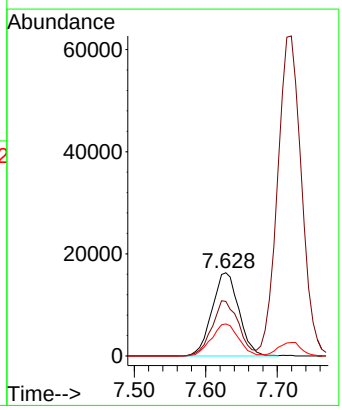


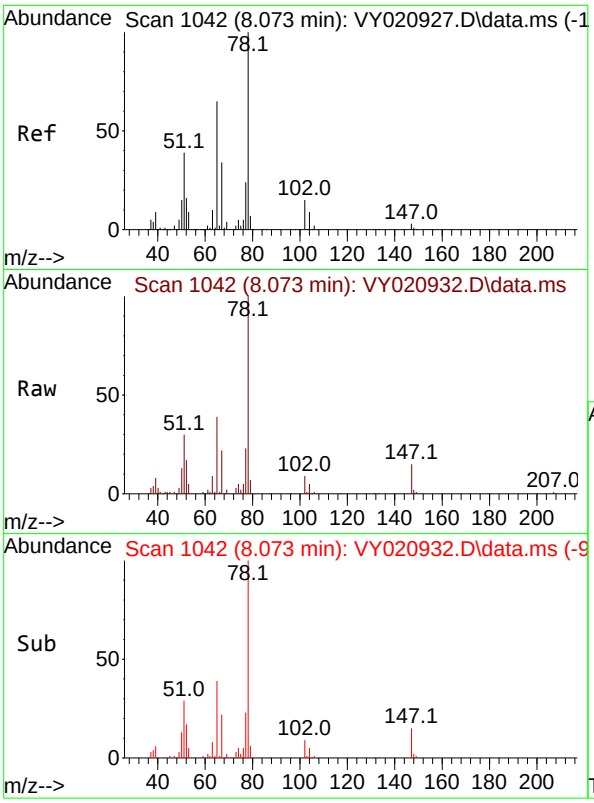




#32
1,1,1-Trichloroethane
Concen: 10.444 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 97 Resp: 42440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.7 | 51.7 | 77.5 |
| 61 | 39.0 | 30.8 | 46.2 |






#33
1,2-Dichloroethane-d4
Concen: 10.126 ug/l
RT: 8.073 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 65 Resp: 2212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 55.7 | 0.0 | 105.8 |

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

**Manual Integrations**
**APPROVED**

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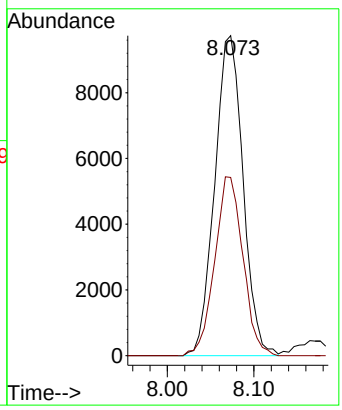
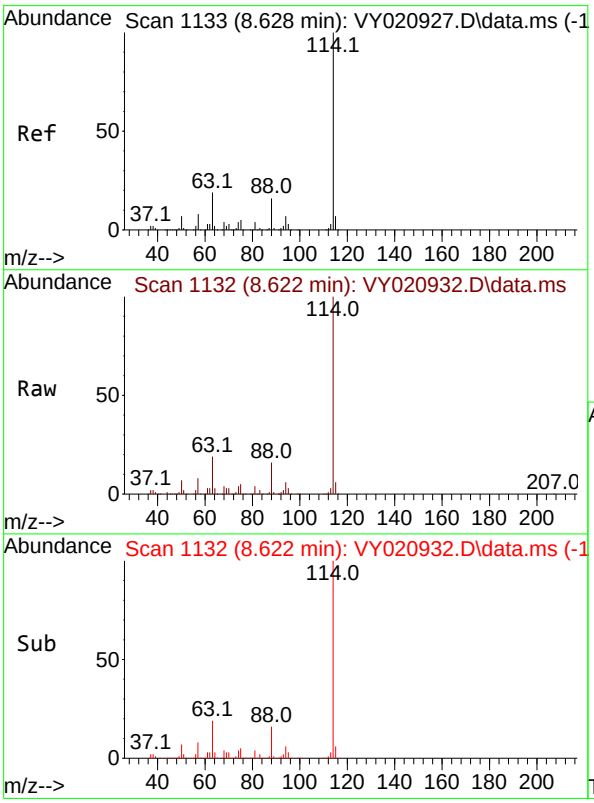
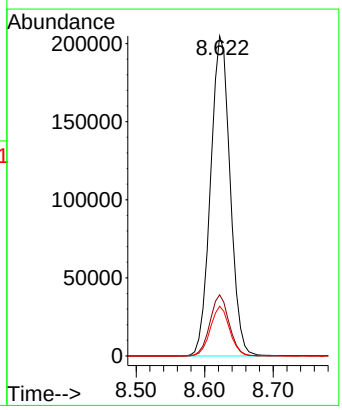


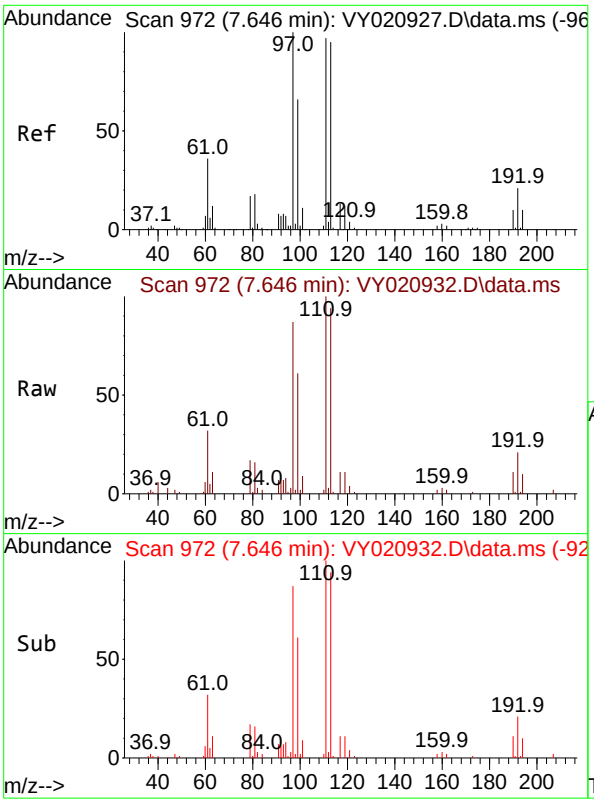




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:114 Resp: 405611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.1 | 0.0 | 38.4 |
| 88 | 15.6 | 0.0 | 31.6 |






#35
Dibromofluoromethane
Concen: 10.149 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

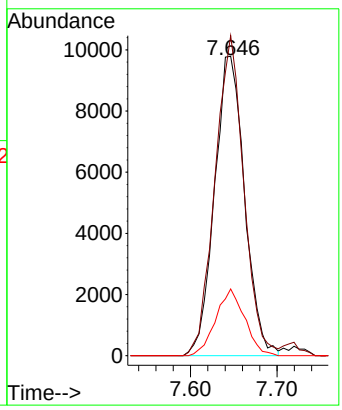
Tgt Ion:113 Resp: 2363

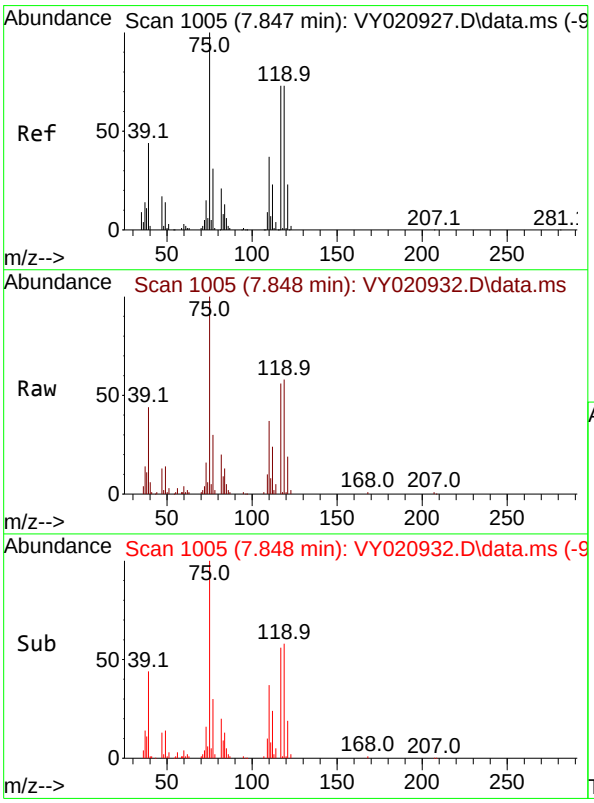
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.4 | 82.3 | 123.5 |
| 192 | 21.5 | 17.4 | 26.2 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

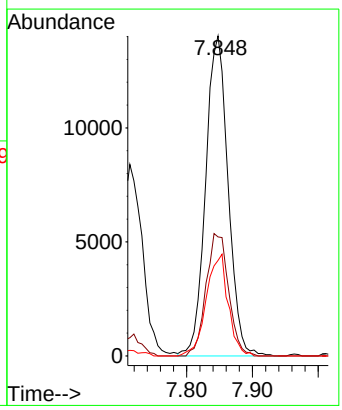


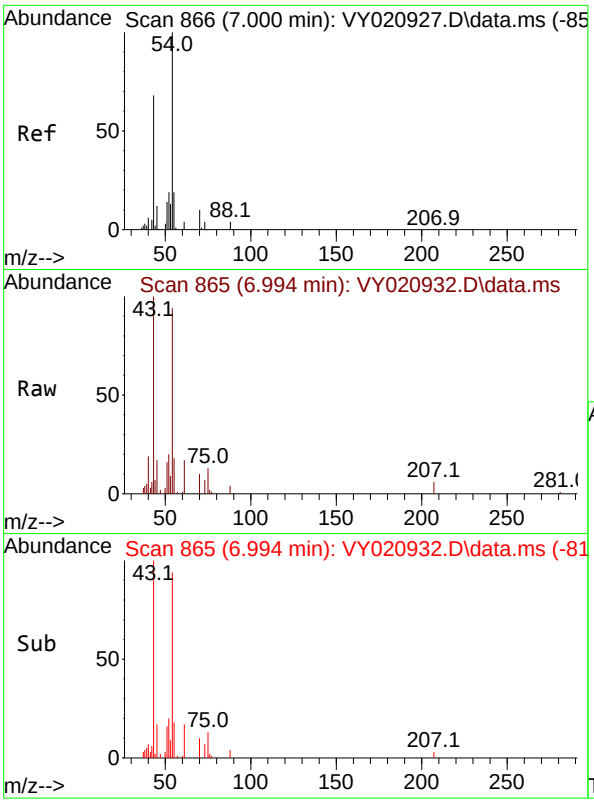




#36
1,1-Dichloropropene
Concen: 10.272 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 75 Resp: 33395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 38.4 | 18.5 | 55.5 |
| 77 | 31.0 | 25.0 | 37.4 |






#37
Ethyl Acetate
Concen: 10.856 ug/l
RT: 6.994 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

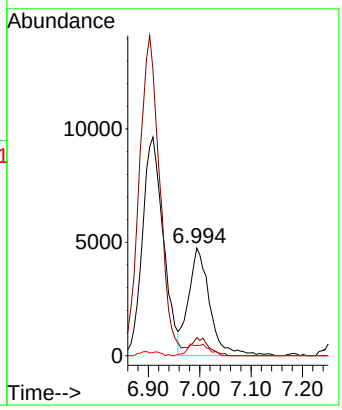
Tgt Ion: 43 Resp: 1369

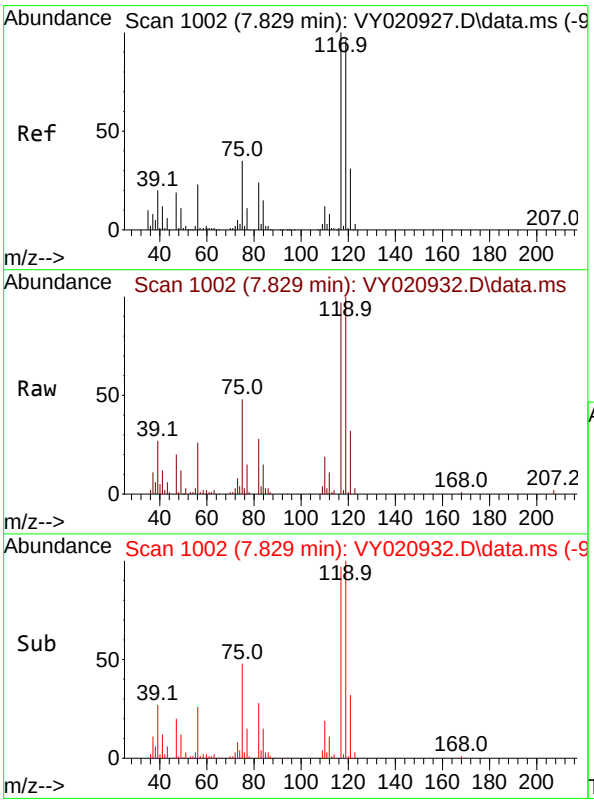
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.2 | 12.1 | 18.1 |
| 70 | 6.4 | 9.5 | 14.3# |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

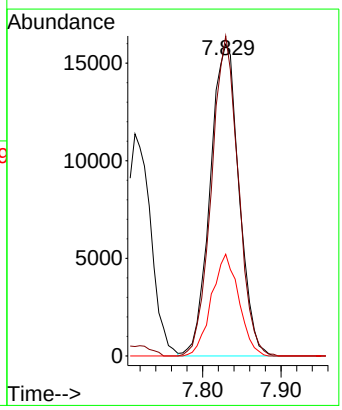


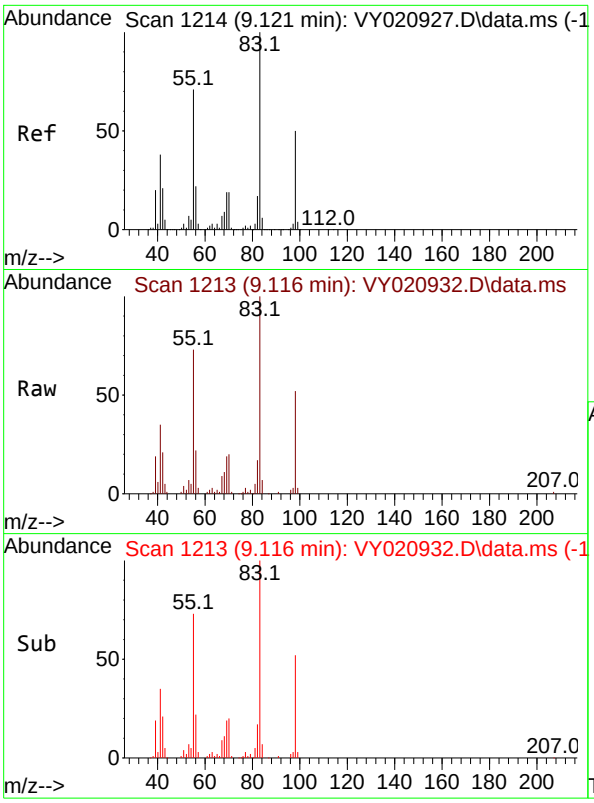




#38
Carbon Tetrachloride
Concen: 10.396 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:117 Resp: 40759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 102.7 | 76.5 | 114.7 |
| 121 | 32.7 | 25.0 | 37.4 |






#39
Methylcyclohexane
Concen: 10.189 ug/l
RT: 9.116 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 83 Resp: 4484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 73.0 | 57.0 | 85.4 |
| 98 | 52.2 | 40.1 | 60.1 |

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

**Manual Integrations**
**APPROVED**

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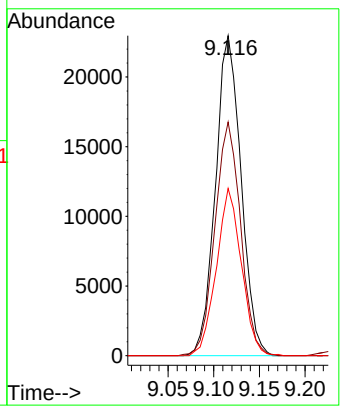
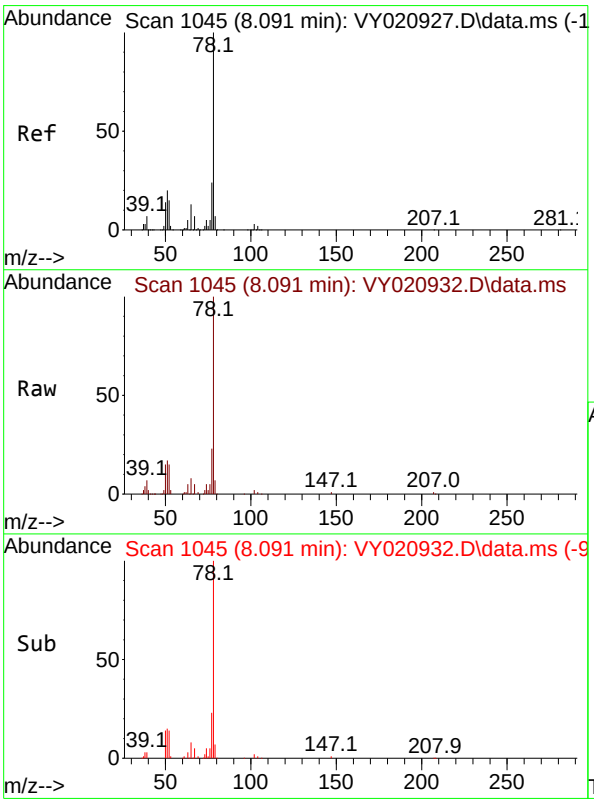
Supervised By :Mahesh Dadoda 01/27/2025

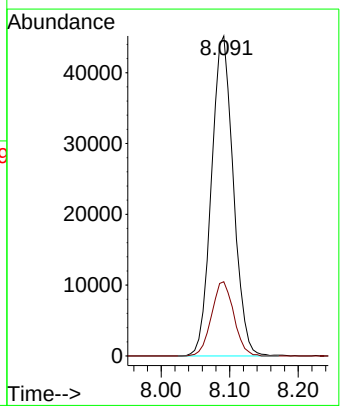


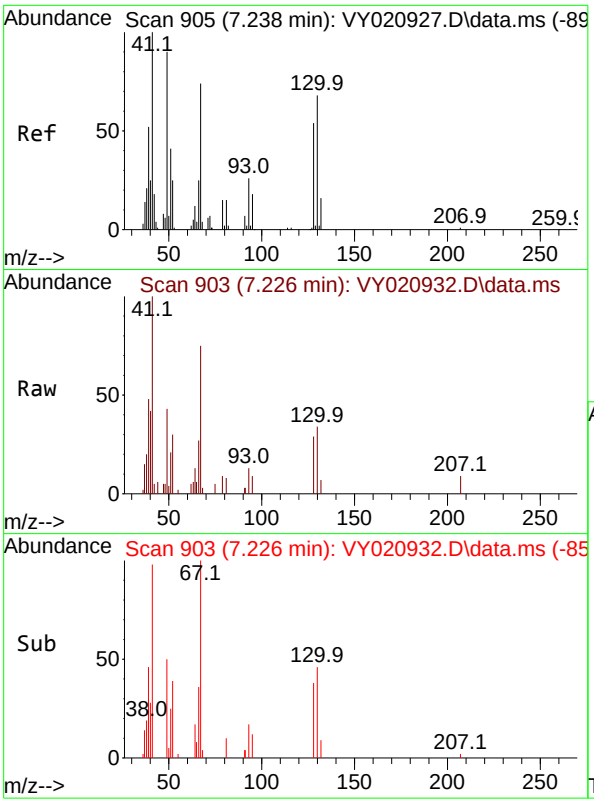




#40
Benzene
Concen: 10.492 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 78 Resp: 100069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.2 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 9.479 ug/l
RT: 7.226 min Scan# 9(
Delta R.T. -0.012 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

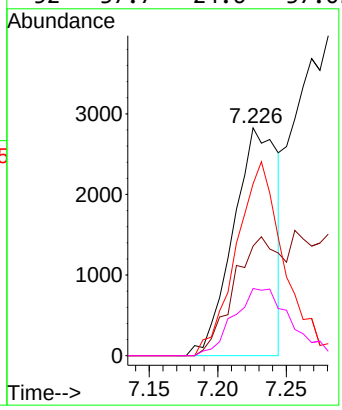
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

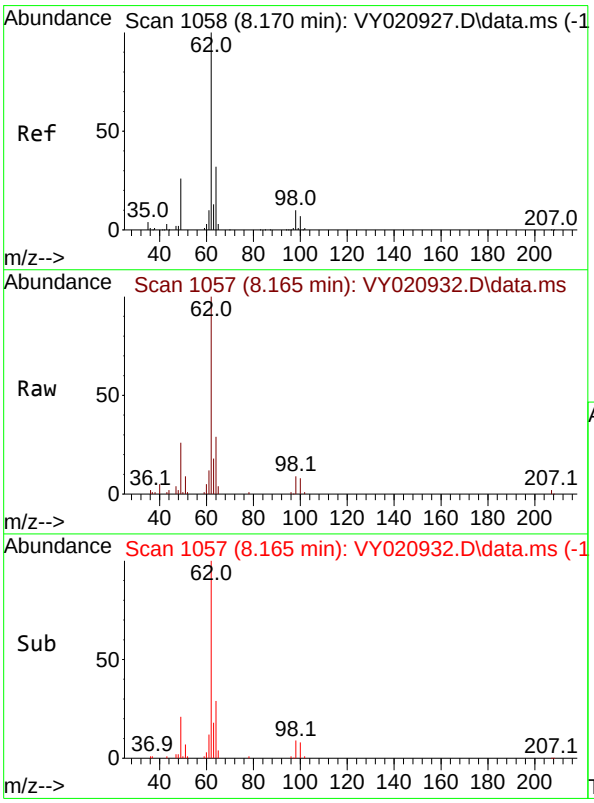
Tgt Ion: 41 Resp: 631(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 58.3 | 46.4 | 69.6 |
| 67 | 93.5 | 66.7 | 100.1 |
| 52 | 37.7 | 24.6 | 37.0# |

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

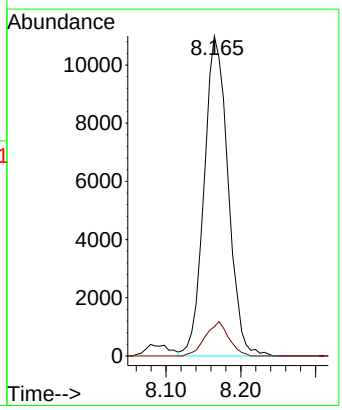


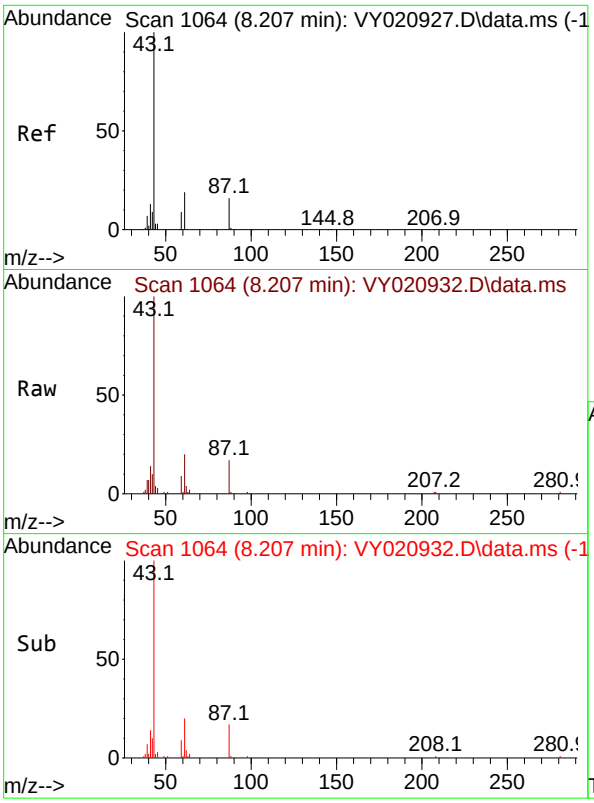




#42
1,2-Dichloroethane
Concen: 10.322 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 62 Resp: 24497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.5 | 0.0 | 19.8 |






#43
Isopropyl Acetate
Concen: 10.225 ug/l
RT: 8.207 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

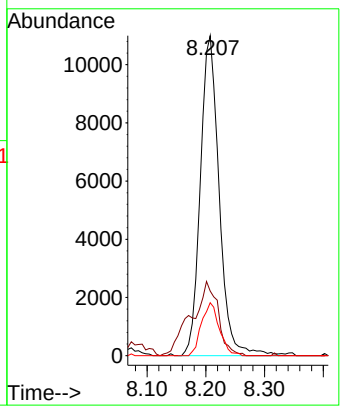
Tgt Ion: 43 Resp: 2445

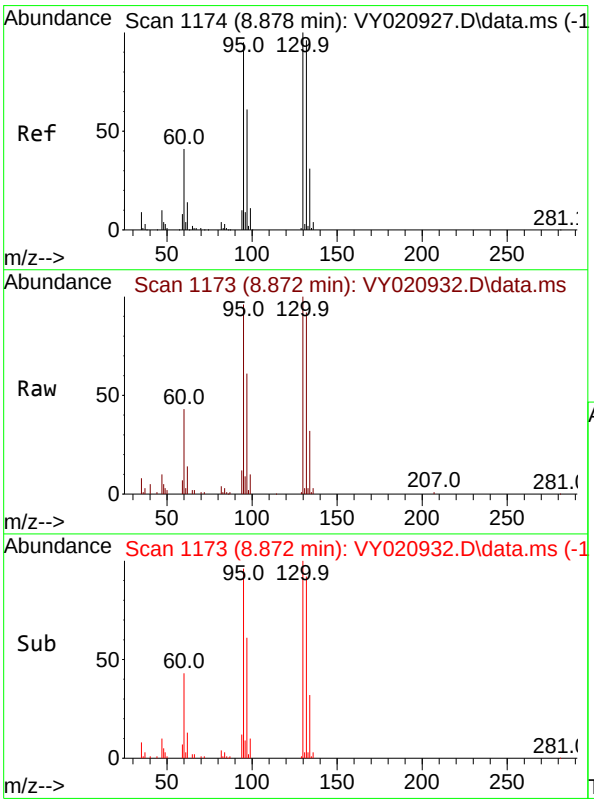
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 33.2 | 26.0 | 39.0 |
| 87 | 15.8 | 12.4 | 18.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

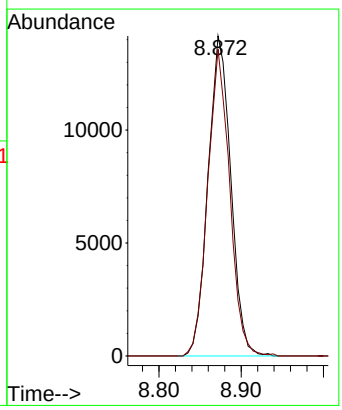


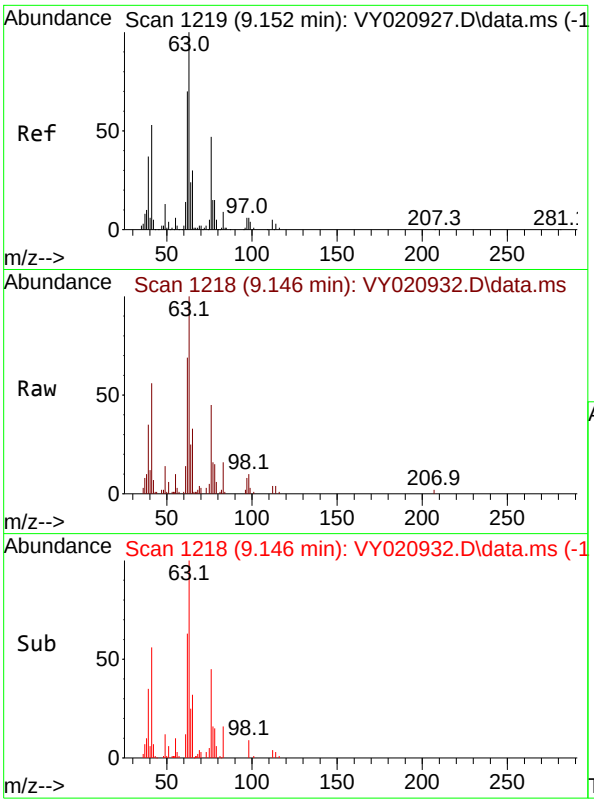




#44
Trichloroethene
Concen: 10.516 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:130 Resp: 27248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.9 | 0.0 | 189.4 |






#45
1,2-Dichloropropane
Concen: 10.414 ug/l
RT: 9.146 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 63 Resp: 2192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 33.3 | 23.9 | 35.9 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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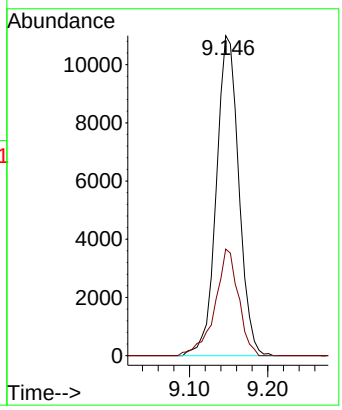
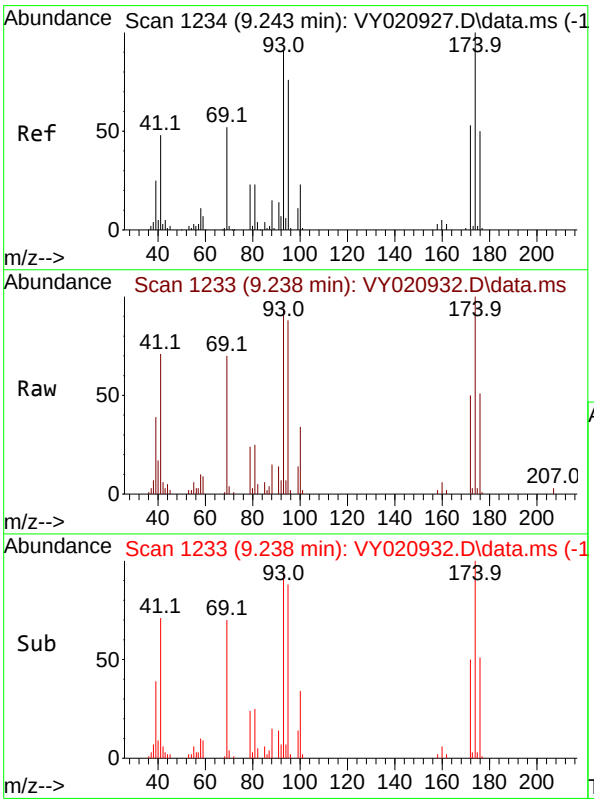
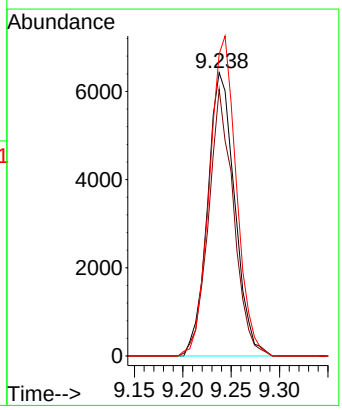


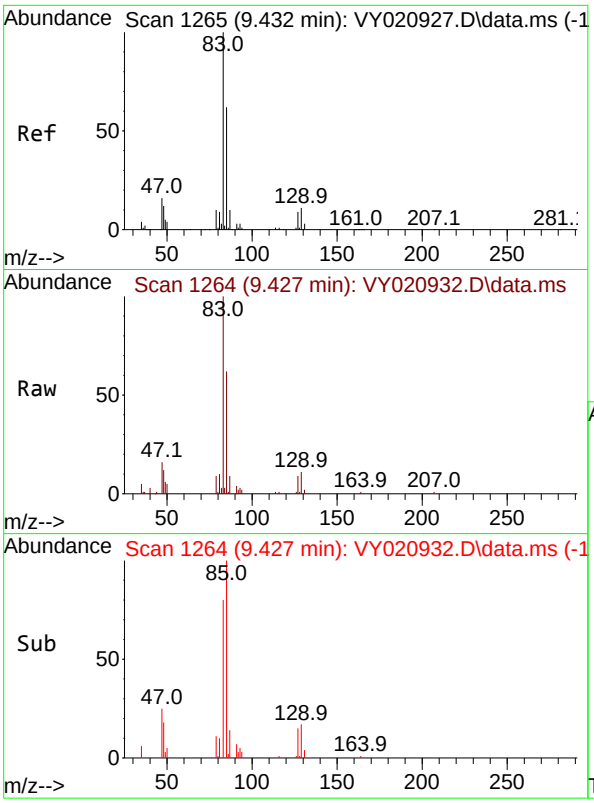




#46
Dibromomethane
Concen: 10.500 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 93 Resp: 12568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 86.6 | 66.2 | 99.2 |
| 174 | 111.3 | 87.0 | 130.4 |






#47
Bromodichloromethane
Concen: 10.485 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

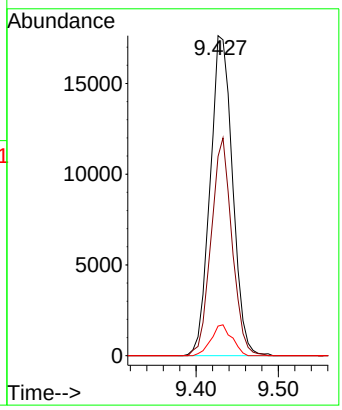
Tgt Ion: 83 Resp: 3339

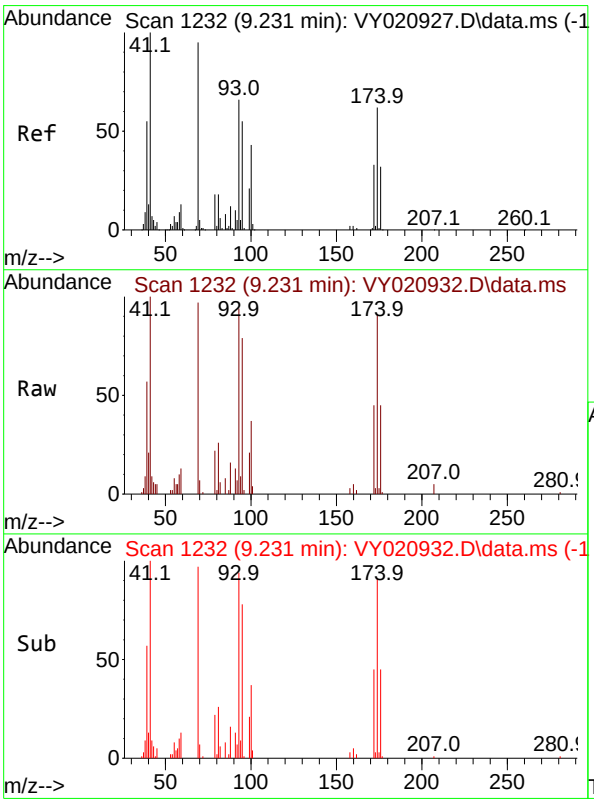
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.3 | 49.3 | 73.9 |
| 127 | 9.3 | 7.4 | 11.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

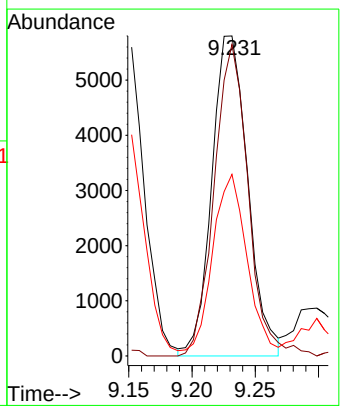


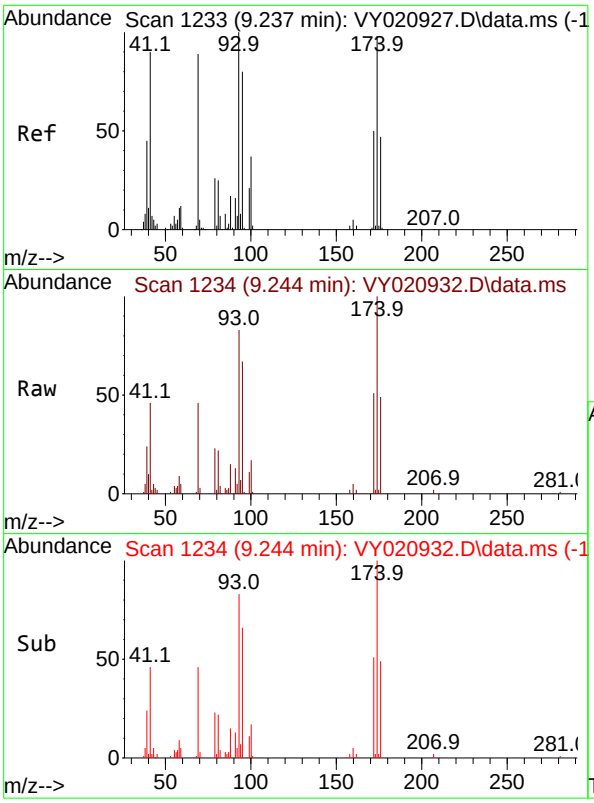




#48
Methyl methacrylate
Concen: 10.167 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 41 Resp: 11471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 92.3 | 77.0 | 115.4 |
| 39 | 51.9 | 41.1 | 61.7 |






#49
1,4-Dioxane
Concen: 207.730 ug/l
RT: 9.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 88 Resp: 256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 23.1 | 34.7 |
| 58 | 63.9 | 49.0 | 73.6 |

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

**Manual Integrations**
**APPROVED**

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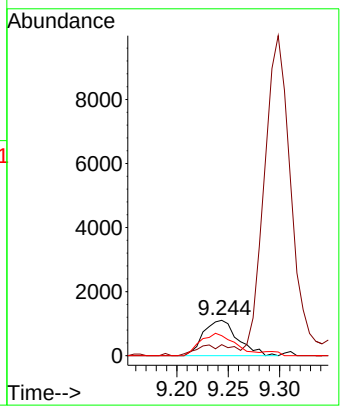
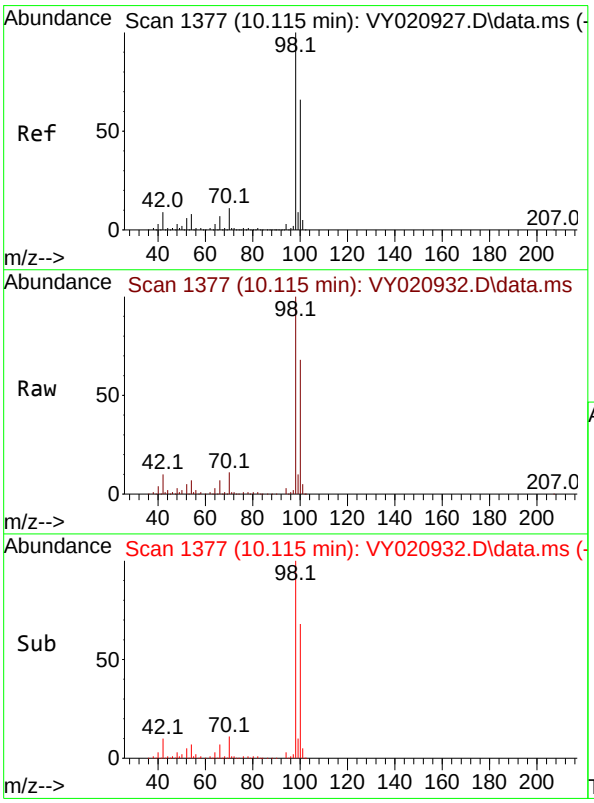
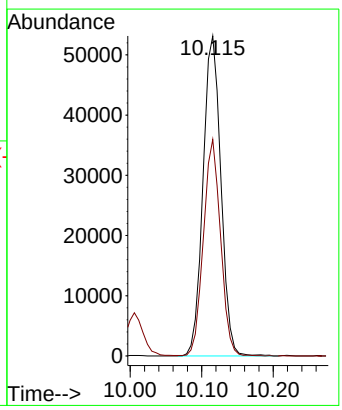


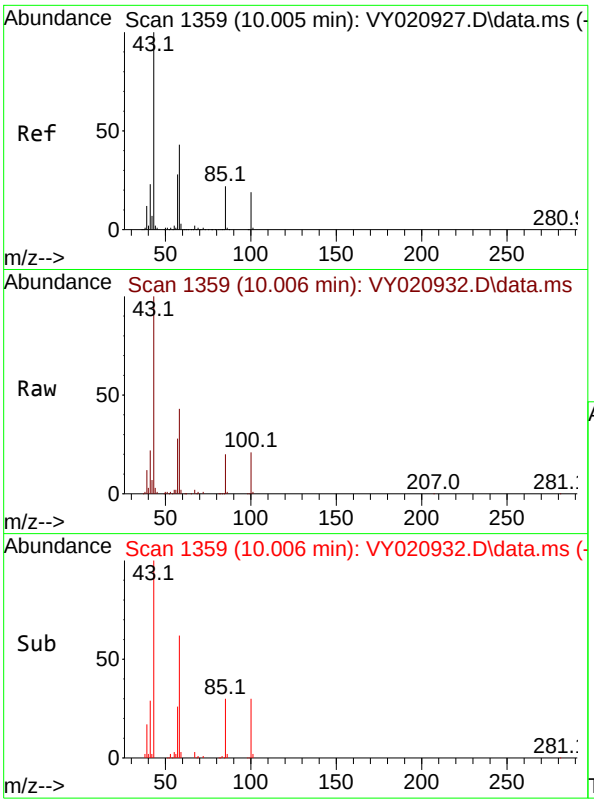




#50
Toluene-d8
Concen: 10.192 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 98 Resp: 92057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 52.3 | 78.5 |






#51
4-Methyl-2-Pentanone
Concen: 51.273 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 43 Resp: 6183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.8 | 33.7 | 50.5 |

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

**Manual Integrations**
**APPROVED**

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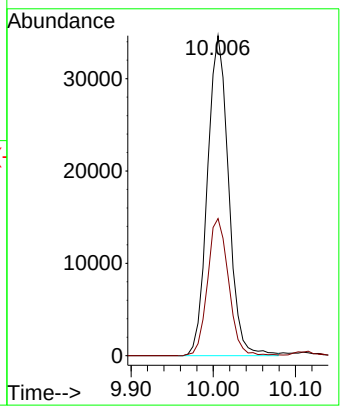
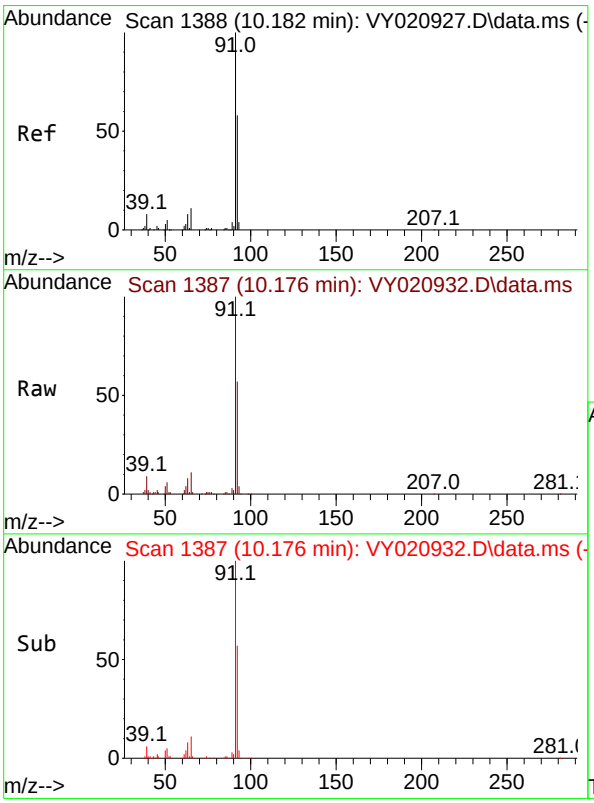
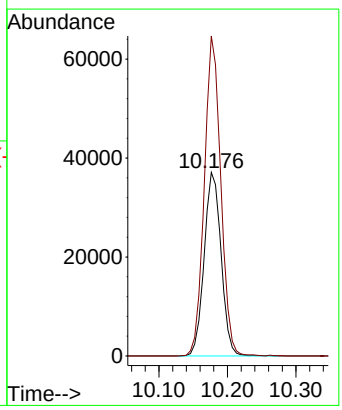


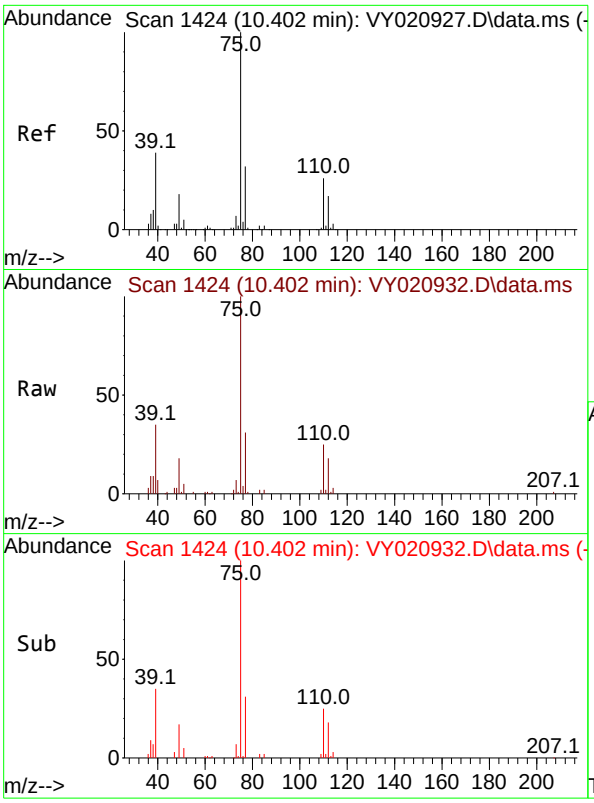




#52
Toluene
Concen: 10.395 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 92 Resp: 63762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.8 | 137.3 | 205.9 |






#53
t-1,3-Dichloropropene
Concen: 10.141 ug/l
RT: 10.402 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 75 Resp: 2961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.0 | 25.4 | 38.2 |

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

**Manual Integrations**
**APPROVED**

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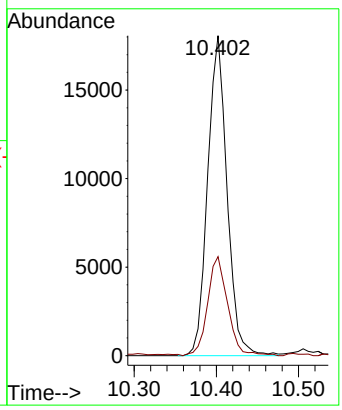
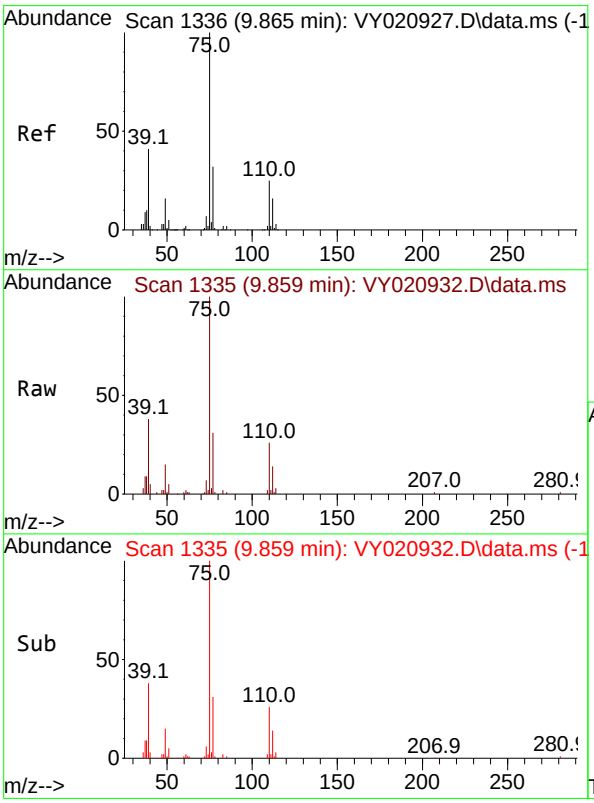
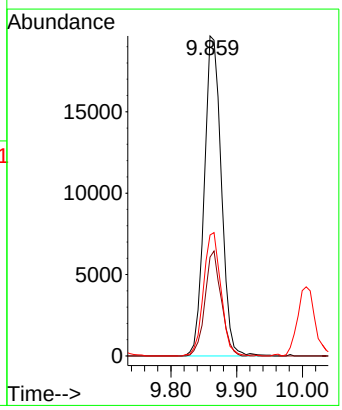


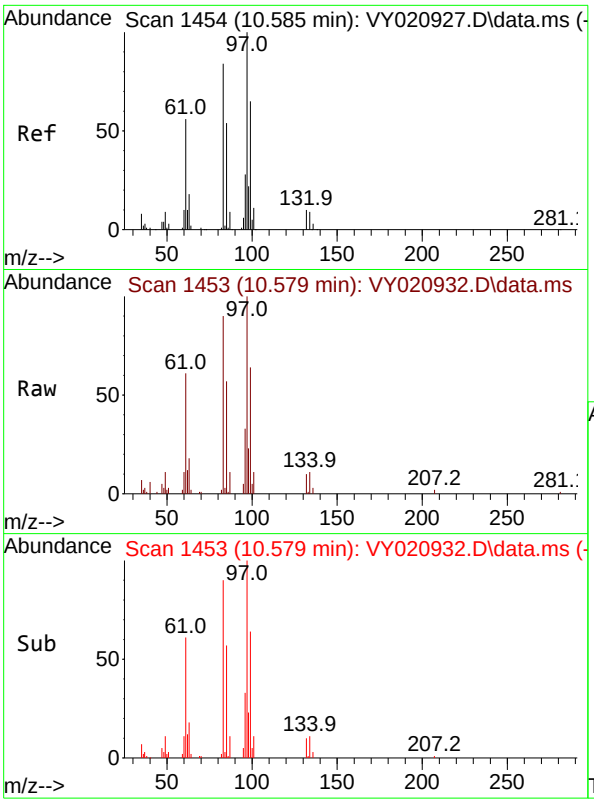




#54
cis-1,3-Dichloropropene
Concen: 10.147 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 75 Resp: 35379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.9 | 25.7 | 38.5 |
| 39 | 37.8 | 32.8 | 49.2 |






#55
1,1,2-Trichloroethane
Concen: 10.079 ug/l
RT: 10.579 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

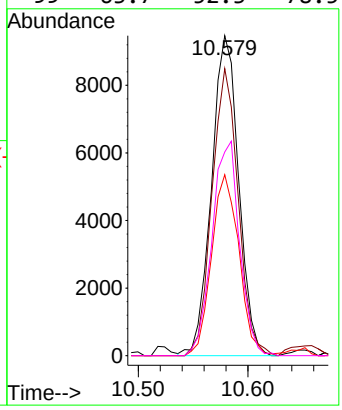
Tgt Ion: 97 Resp: 1630

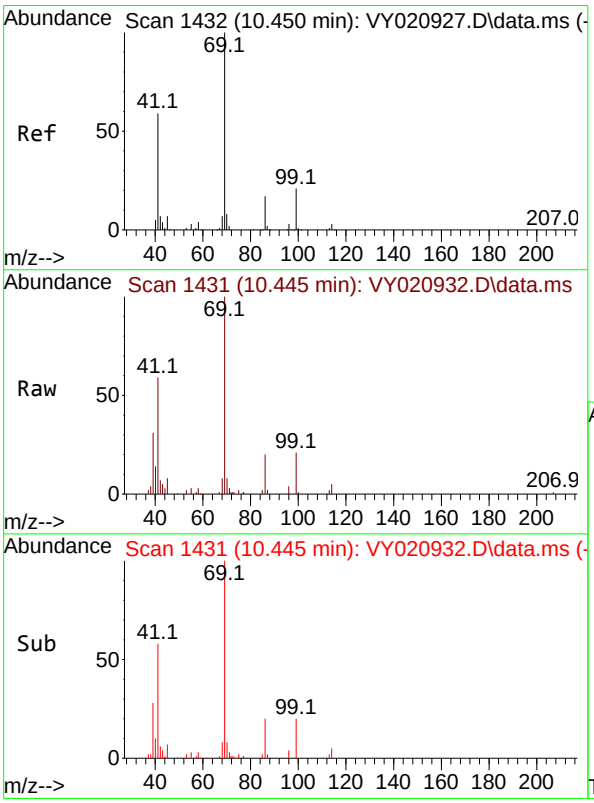
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.7 | 67.0 | 100.6 |
| 85 | 56.6 | 43.1 | 64.7 |
| 99 | 63.7 | 52.3 | 78.5 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

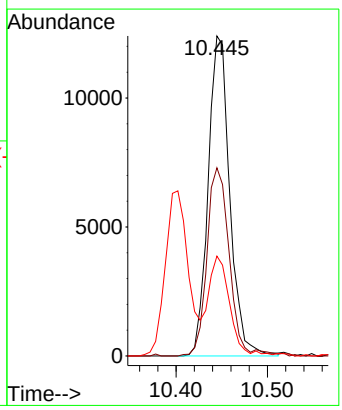


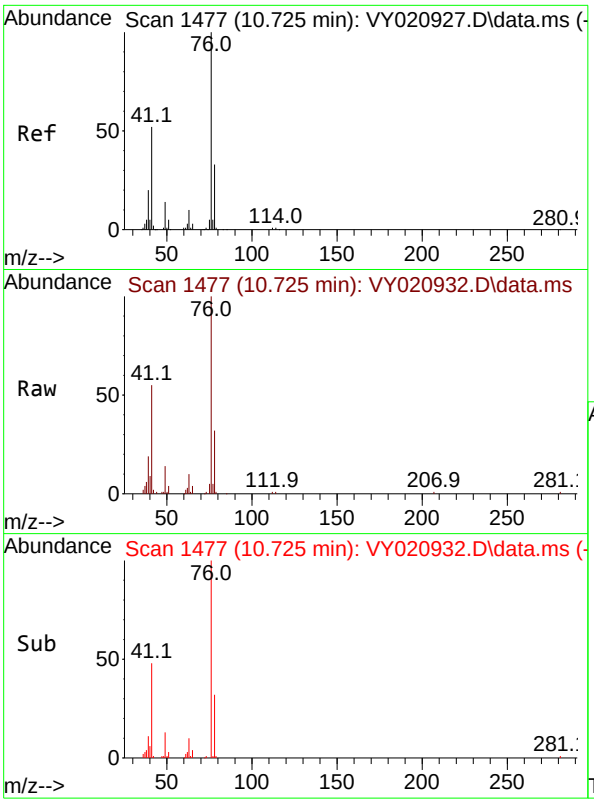




#56
Ethyl methacrylate
Concen: 9.607 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 69 Resp: 20369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.1 | 46.6 | 70.0 |
| 39 | 29.9 | 23.9 | 35.9 |






#57
1,3-Dichloropropane
Concen: 10.365 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

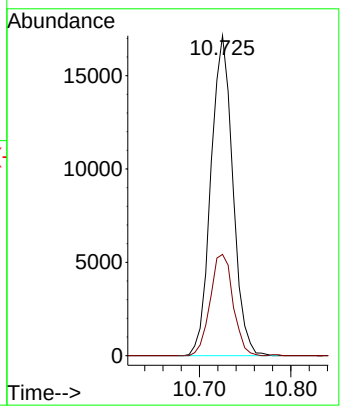
Tgt Ion: 76 Resp: 2848

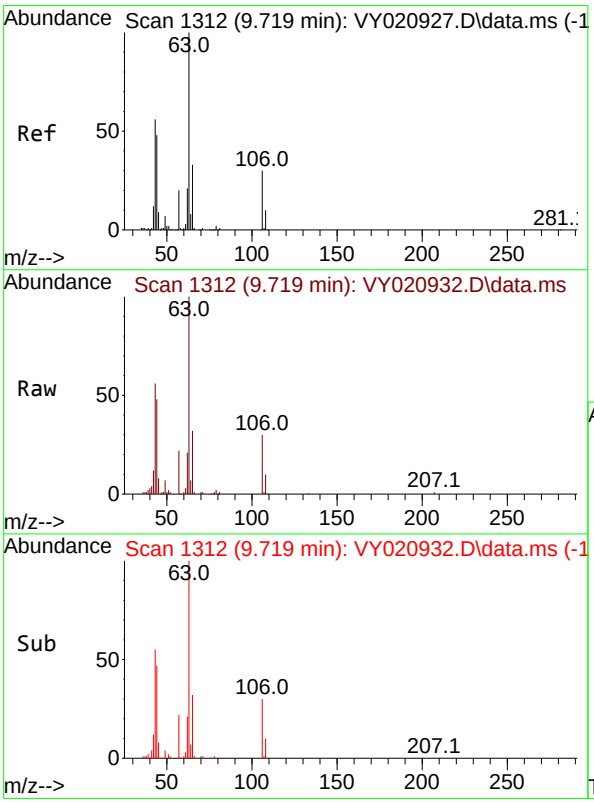
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.0 | 26.2 | 39.2 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

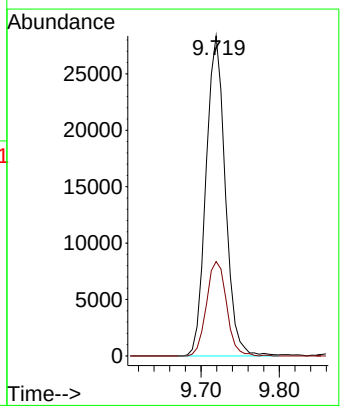


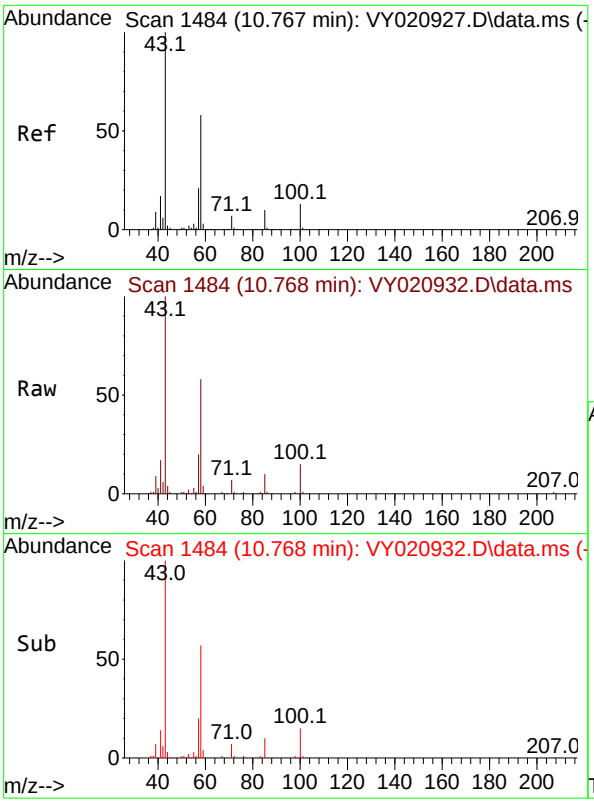




#58
2-Chloroethyl Vinyl ether
Concen: 50.327 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 63 Resp: 48432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 30.7 | 24.7 | 37.1 |






#59
2-Hexanone
Concen: 50.045 ug/l
RT: 10.768 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 43 Resp: 3881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.1 | 29.9 | 89.8 |

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

**Manual Integrations**
**APPROVED**

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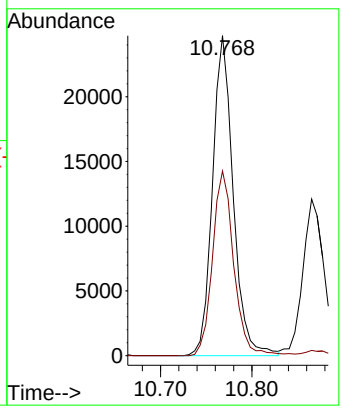
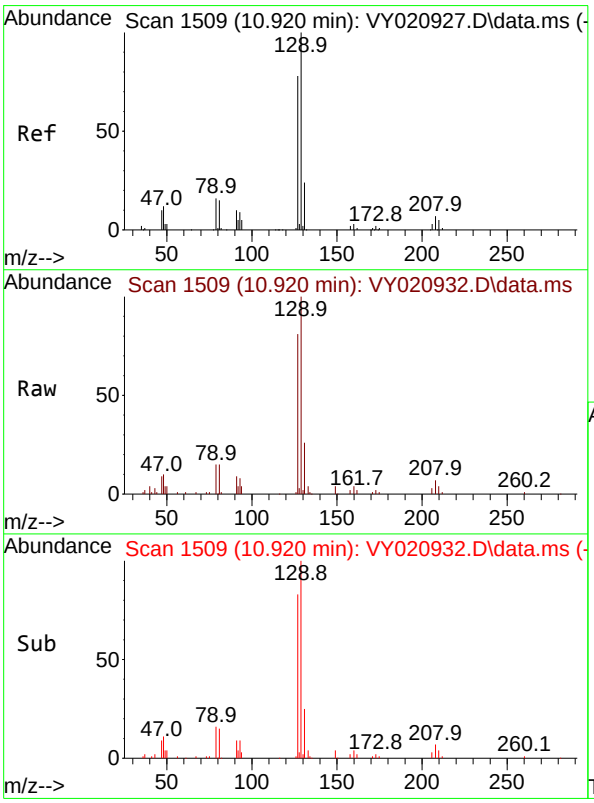
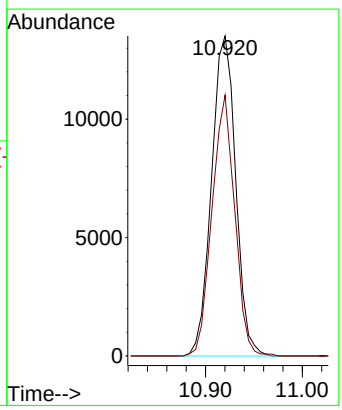


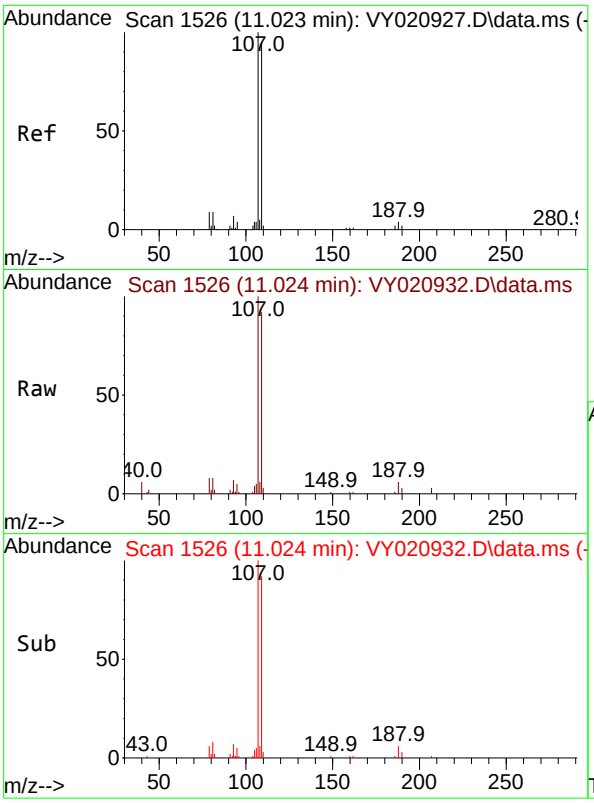




#60
Dibromochloromethane
Concen: 10.290 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:129 Resp: 23430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.8 | 39.2 | 117.6 |






#61
1,2-Dibromoethane
Concen: 10.501 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:107 Resp: 1625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.7 | 76.3 | 114.5 |

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

**Manual Integrations**
**APPROVED**

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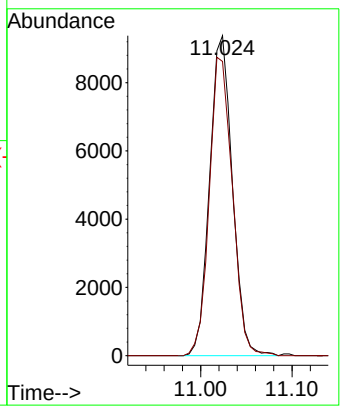
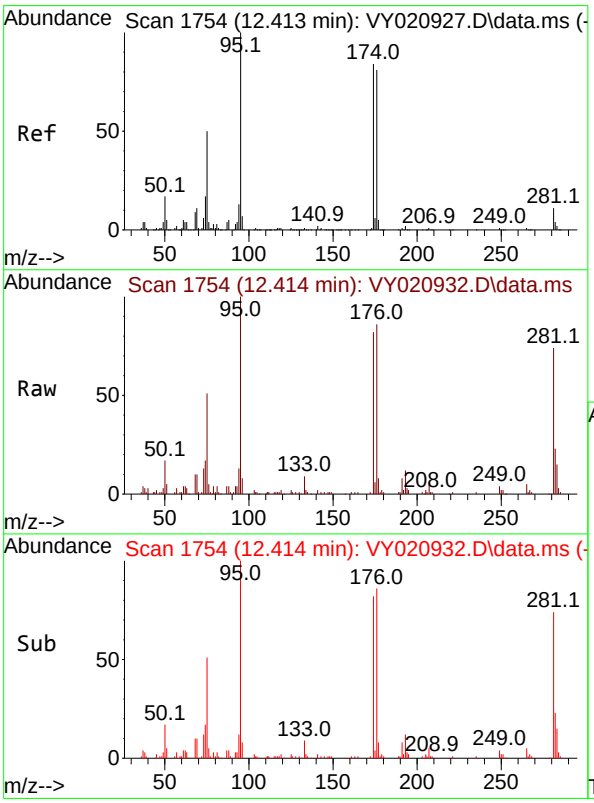
Supervised By :Mahesh Dadoda 01/27/2025

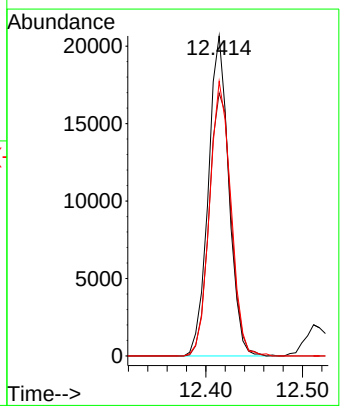


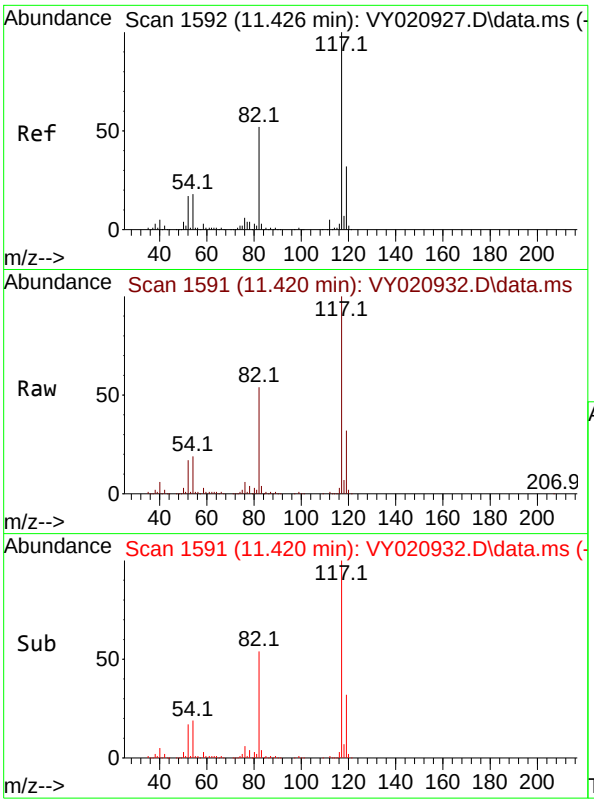




#62
4-Bromofluorobenzene
Concen: 10.132 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 95 Resp: 30456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 87.3 | 0.0 | 177.4 |
| 176 | 89.1 | 0.0 | 172.2 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

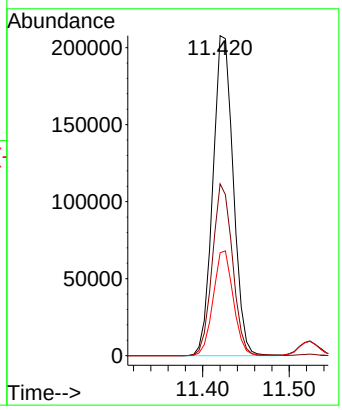
Tgt Ion:117 Resp: 33942

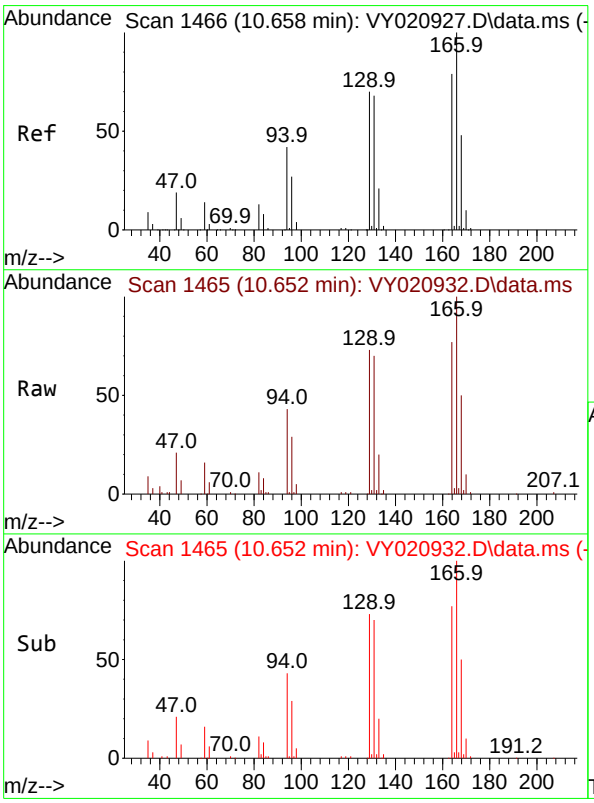
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.7 | 41.8 | 62.8 |
| 119 | 32.2 | 26.0 | 39.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

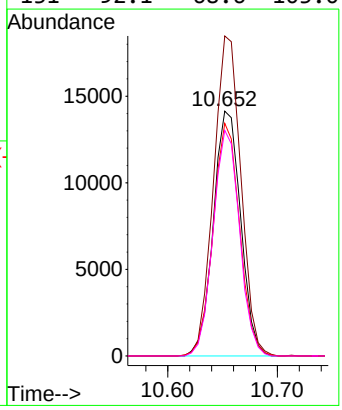


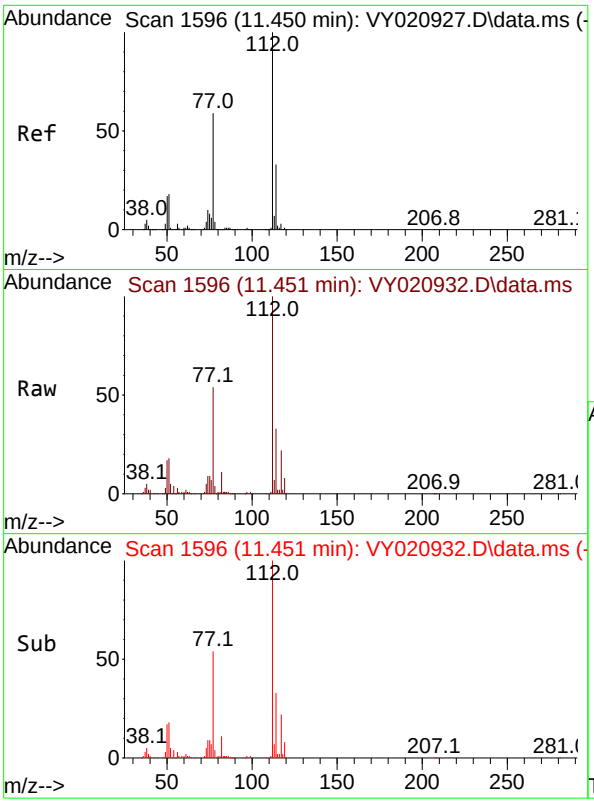




#64
Tetrachloroethene
Concen: 10.370 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:164 Resp: 24496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 130.7 | 101.0 | 151.6 |
| 129 | 95.0 | 70.8 | 106.2 |
| 131 | 92.1 | 68.6 | 103.0 |






#65
Chlorobenzene
Concen: 10.419 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

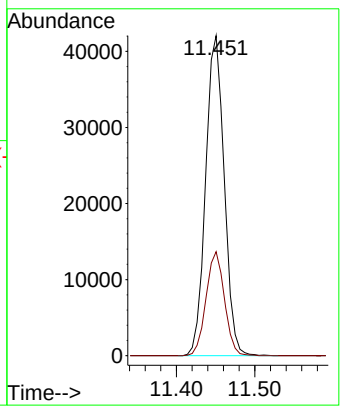
Tgt Ion:112 Resp: 6915

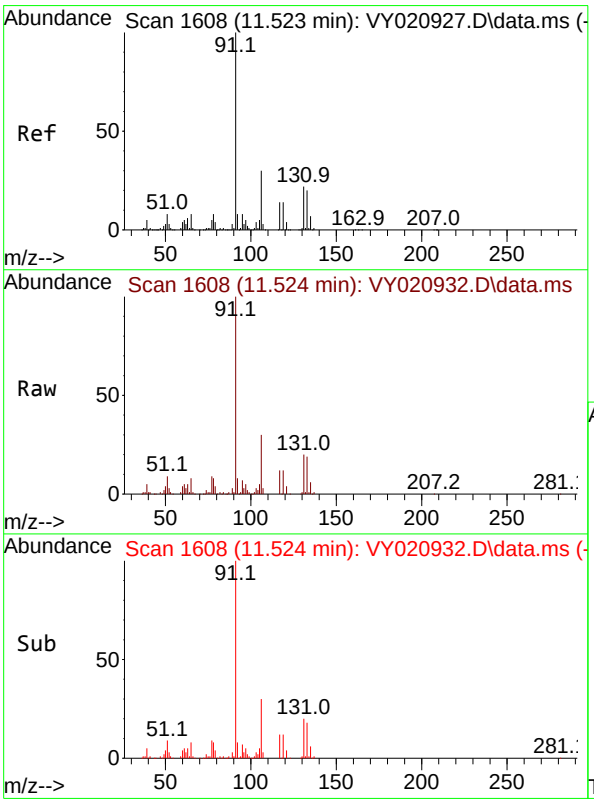
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.5 | 26.0 | 39.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

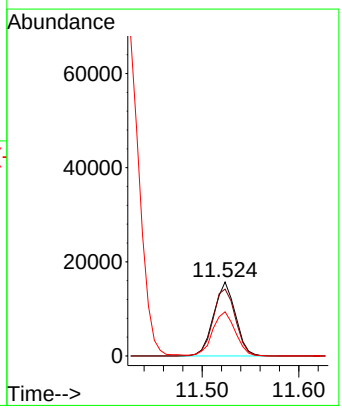


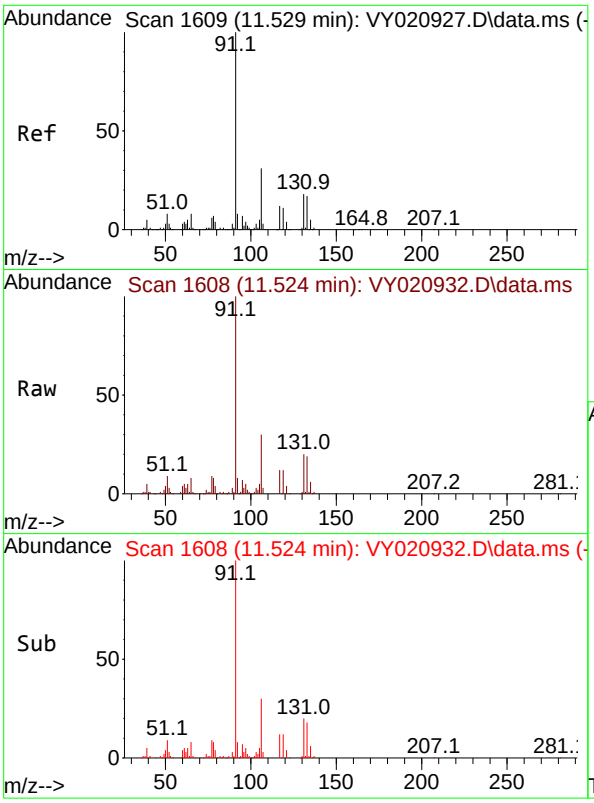




#66
1,1,1,2-Tetrachloroethane
Concen: 10.437 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:131 Resp: 24617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.1 | 47.5 | 142.6 |
| 119 | 62.3 | 31.2 | 93.6 |






#67
Ethyl Benzene
Concen: 10.328 ug/l
RT: 11.524 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

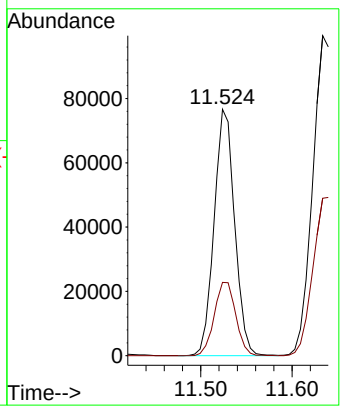
Tgt Ion: 91 Resp: 119619

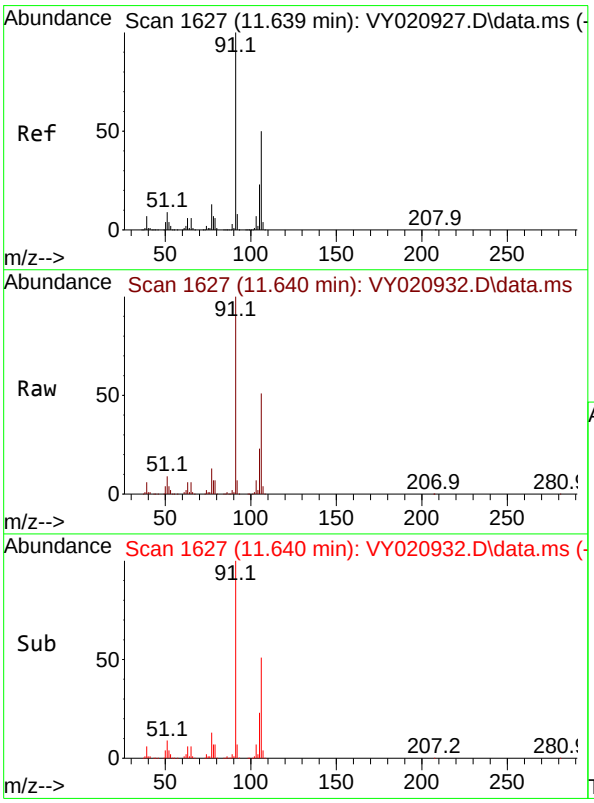
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.7 | 25.2 | 37.8 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

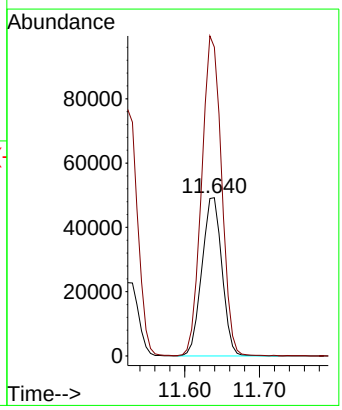


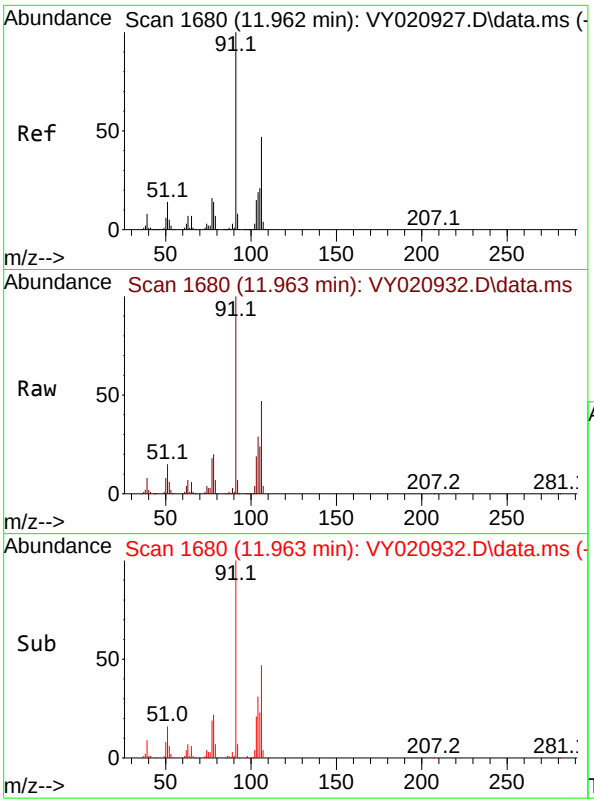




#68
m/p-Xylenes
Concen: 20.726 ug/l
RT: 11.640 min Scan# 1627
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:106 Resp: 91917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 200.1 | 159.5 | 239.3 |






#69
o-Xylene
Concen: 10.392 ug/l
RT: 11.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:106 Resp: 4304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 212.2 | 105.3 | 315.9 |

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

**Manual Integrations**
**APPROVED**

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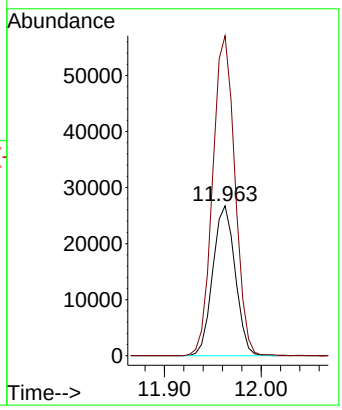
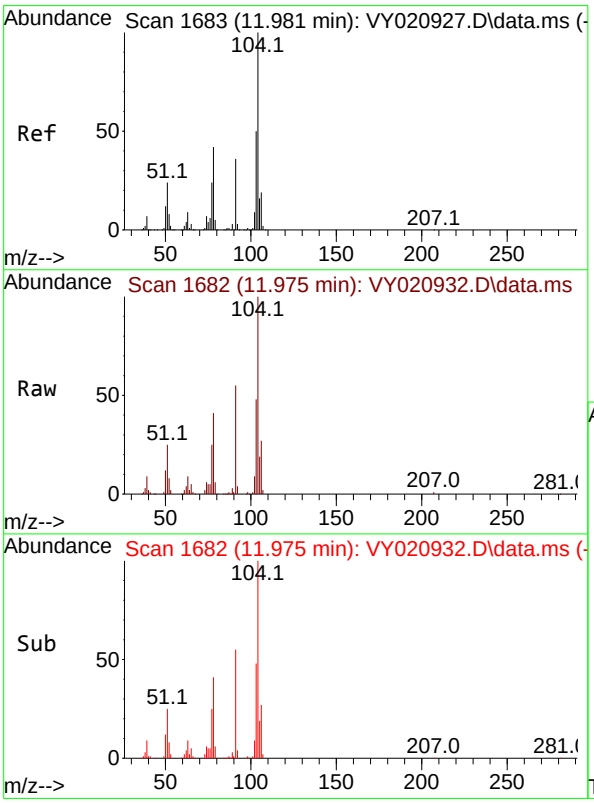
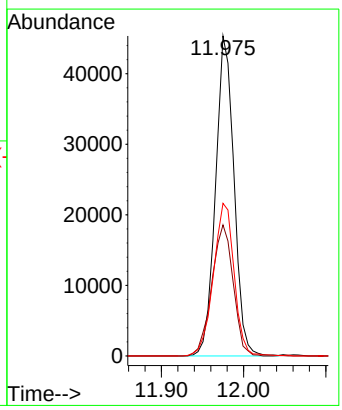


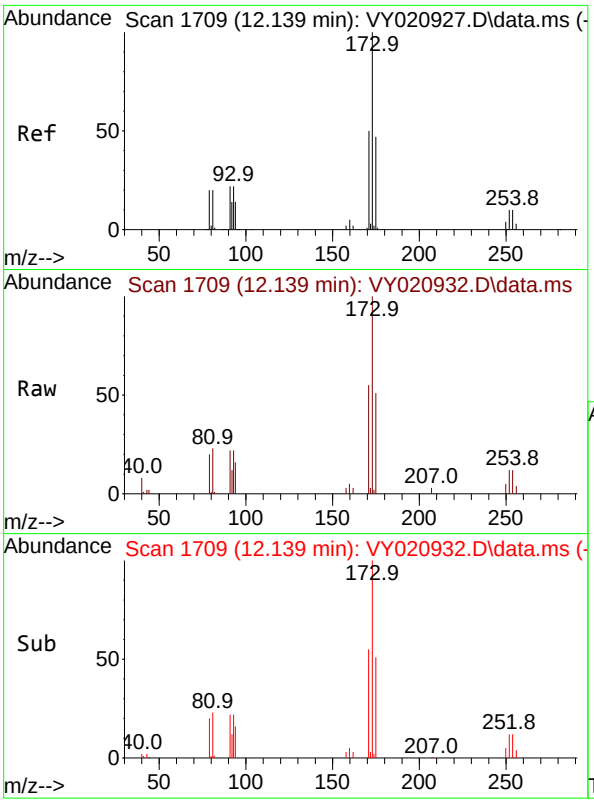




#70
Styrene
Concen: 10.429 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:104 Resp: 70805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.3 | 38.5 | 57.7 |
| 103 | 53.7 | 43.4 | 65.2 |






#71
Bromoform
Concen: 10.294 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:173 Resp: 1374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.0 | 24.3 | 73.0 |
| 254 | 0.0 | 0.1 | 0.1 |

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

**Manual Integrations**
**APPROVED**

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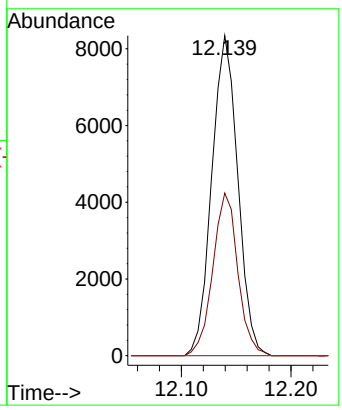
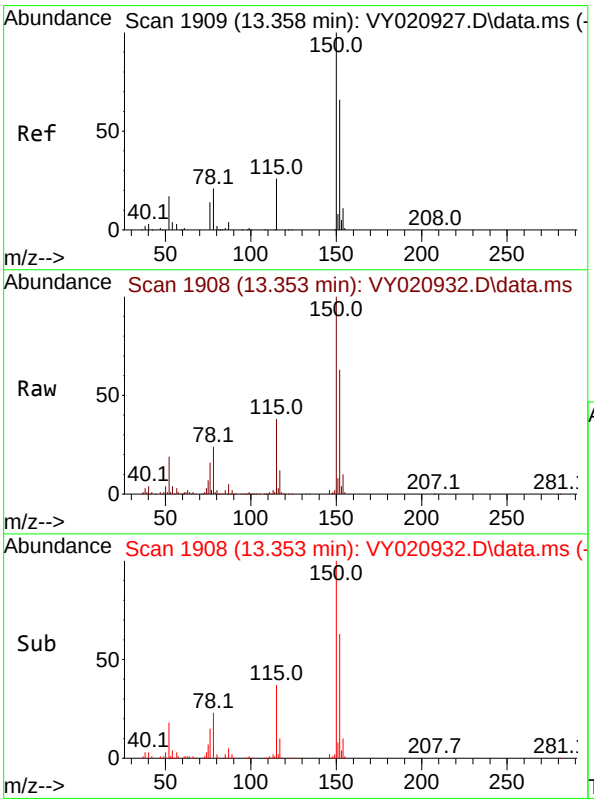
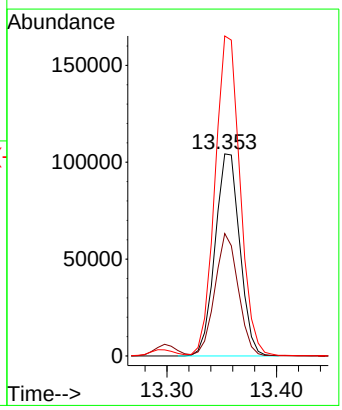


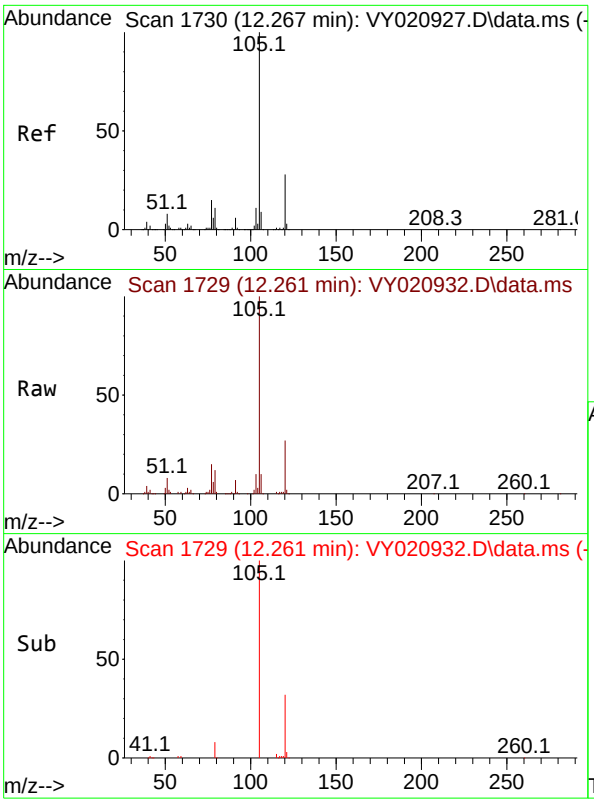




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:152 Resp: 163193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.4 | 29.0 | 87.0 |
| 150 | 160.6 | 0.0 | 347.6 |






#73
Isopropylbenzene
Concen: 10.151 ug/l
RT: 12.261 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

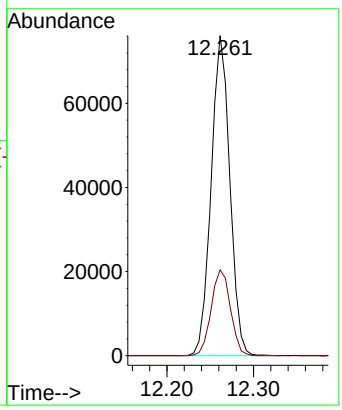
Tgt Ion:105 Resp: 11409

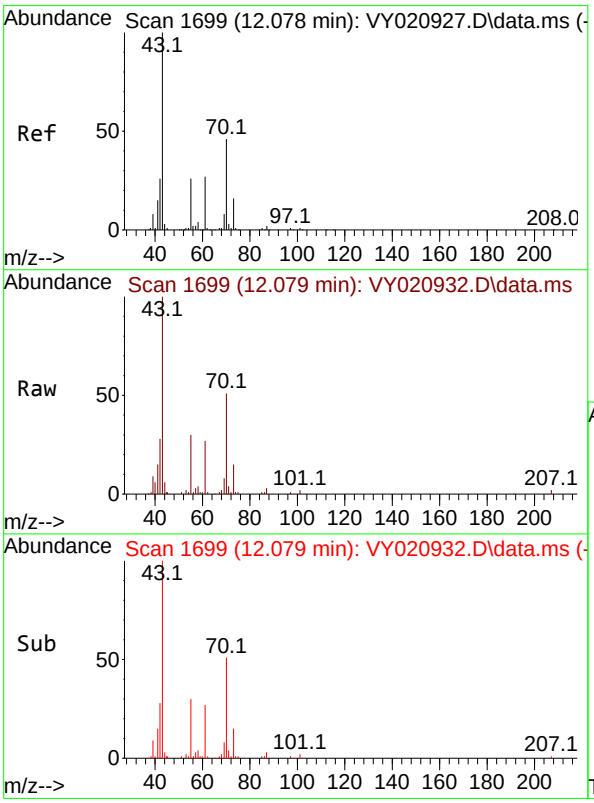
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.5 | 13.4 | 40.1 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

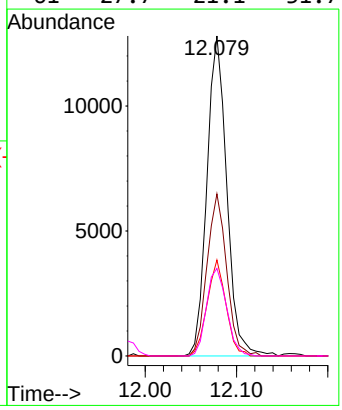


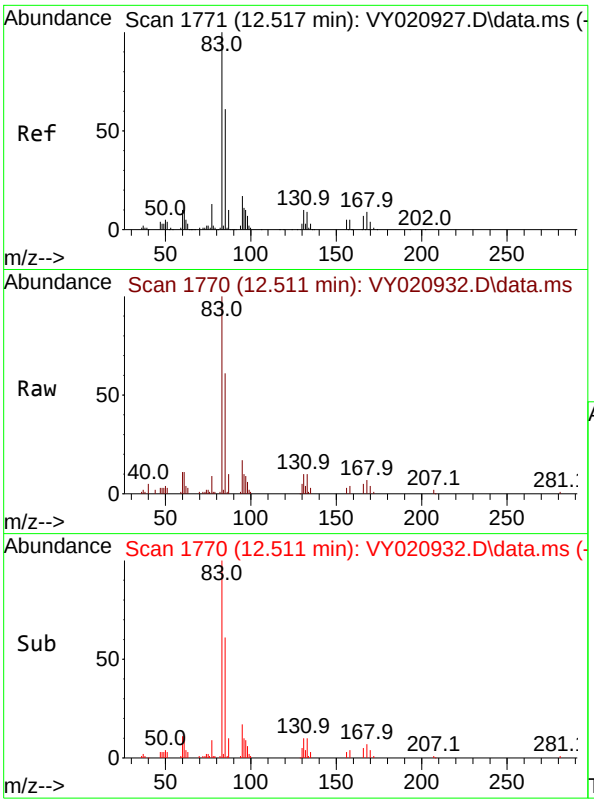




#74
N-amyl acetate
Concen: 9.674 ug/l
RT: 12.079 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 43 Resp: 19347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 50.1 | 38.7 | 58.1 |
| 55 | 28.3 | 21.6 | 32.4 |
| 61 | 27.7 | 21.1 | 31.7 |






#75
1,1,2,2-Tetrachloroethane
Concen: 10.568 ug/l
RT: 12.511 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

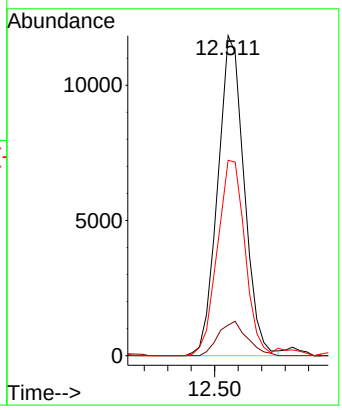
Tgt Ion: 83 Resp: 1848

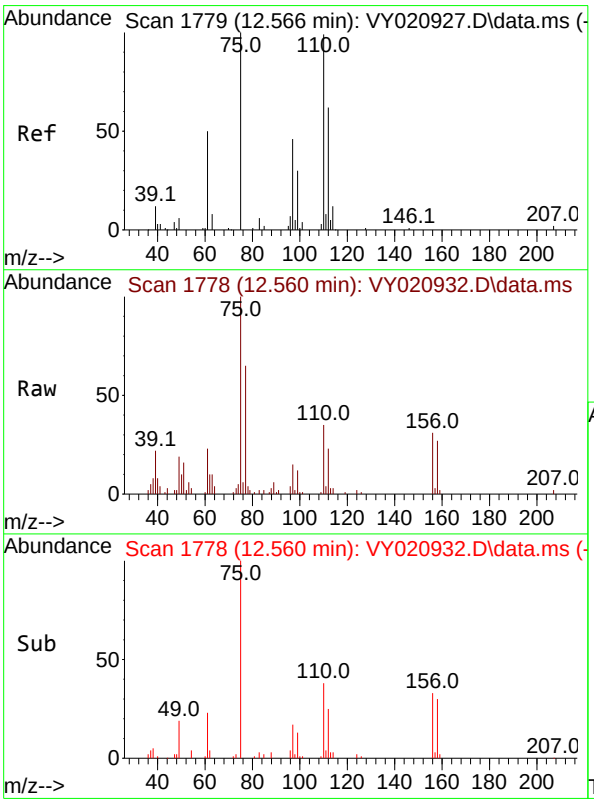
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.7 | 5.5 | 16.7 |
| 85 | 63.8 | 31.8 | 95.4 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

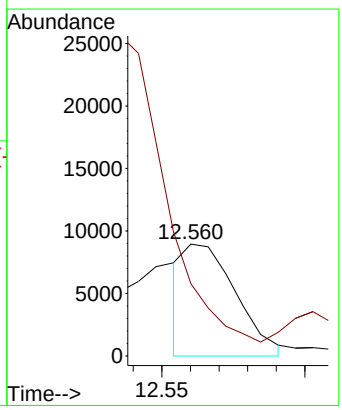


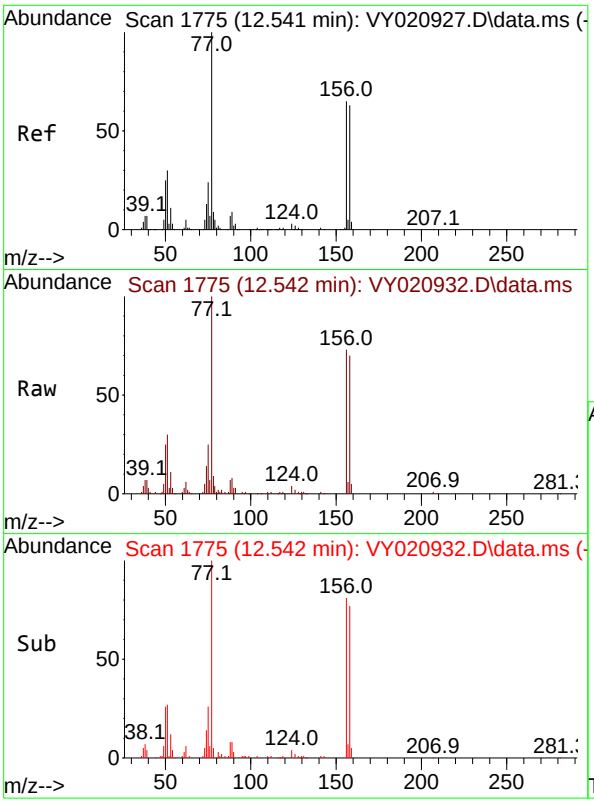




#76
1,2,3-Trichloropropane
Concen: 9.778 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 75 Resp: 11282

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






#77
Bromobenzene
Concen: 10.383 ug/l
RT: 12.542 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

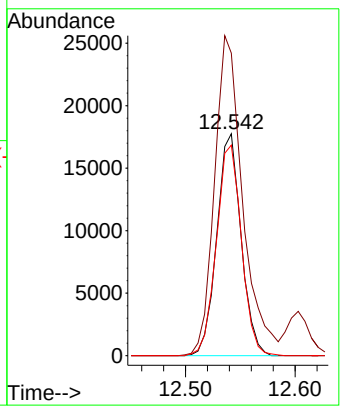
Tgt Ion:156 Resp: 2735

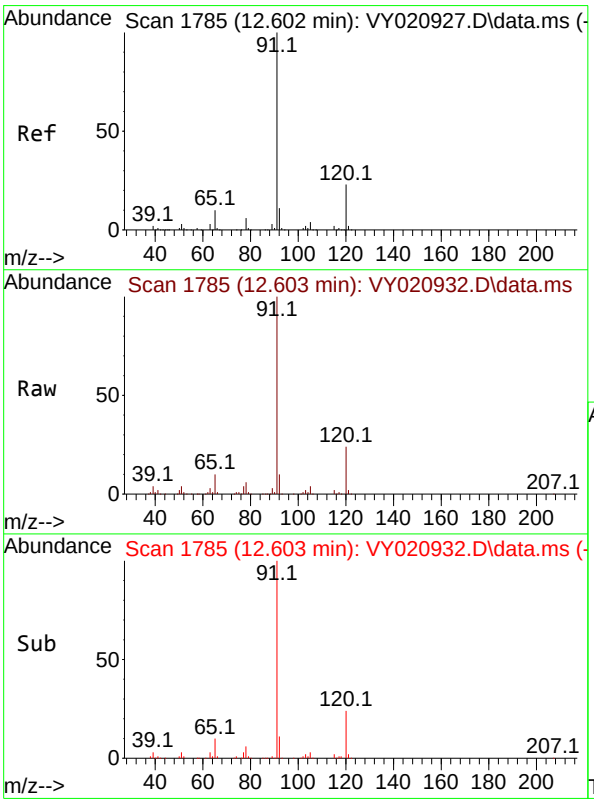
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 166.9 | 84.4 | 253.1 |
| 158 | 97.8 | 48.9 | 146.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

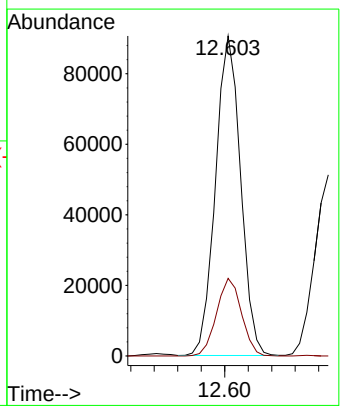


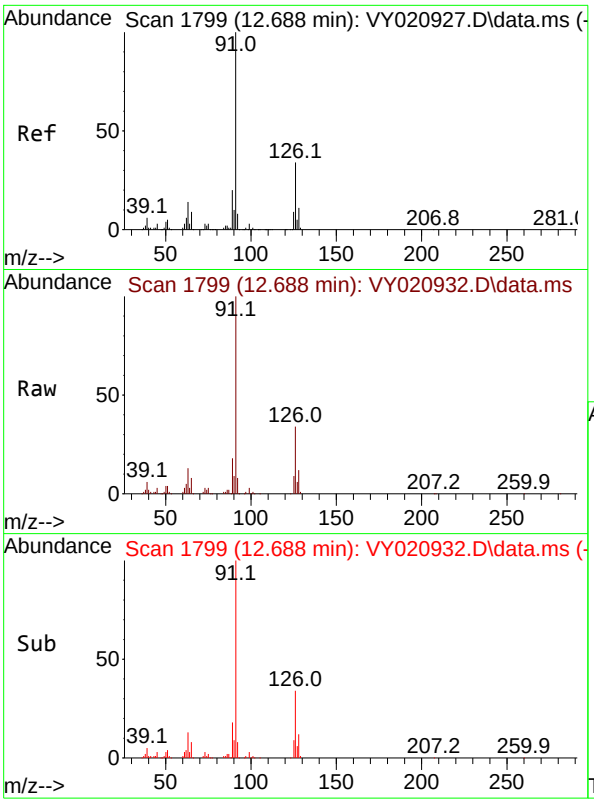




#78
n-propylbenzene
Concen: 10.273 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 91 Resp: 134496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.1 | 11.8 | 35.4 |






#79
2-Chlorotoluene
Concen: 10.446 ug/l
RT: 12.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

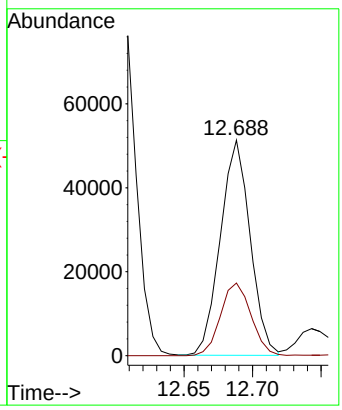
Tgt Ion: 91 Resp: 7756

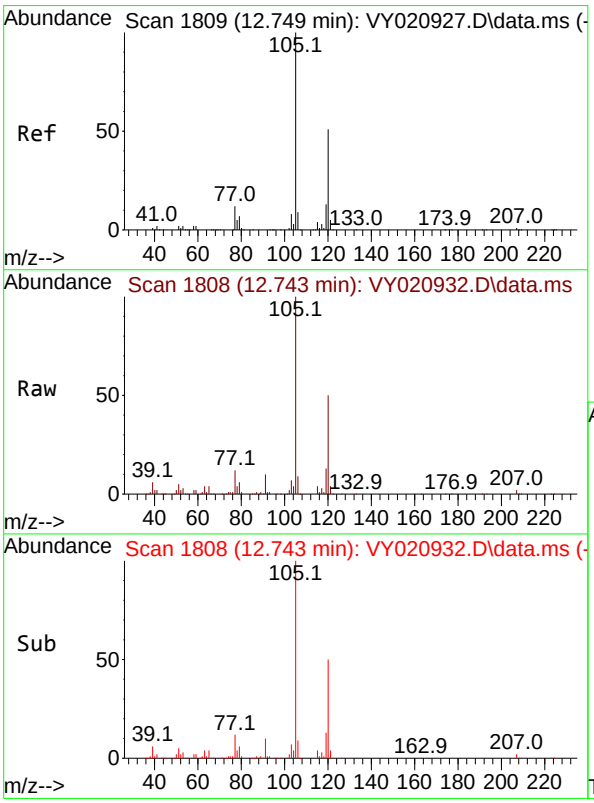
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.8 | 17.6 | 52.9 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

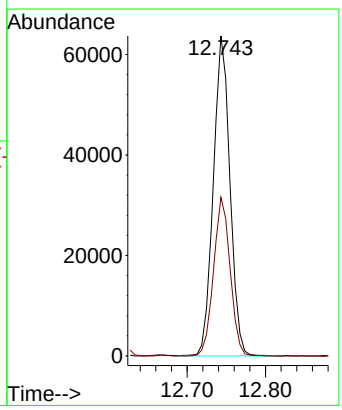


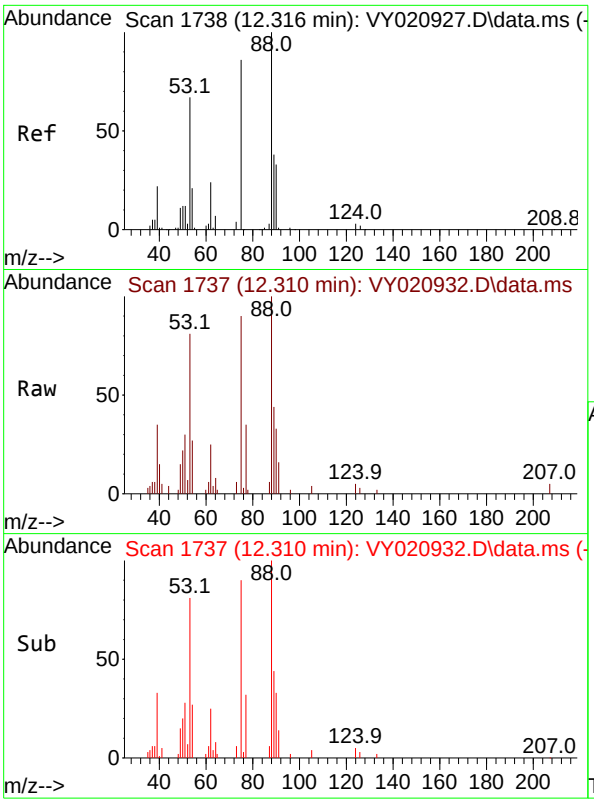




#80
1,3,5-Trimethylbenzene
Concen: 10.412 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:105 Resp: 94030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.4 | 24.9 | 74.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 10.577 ug/l
RT: 12.310 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

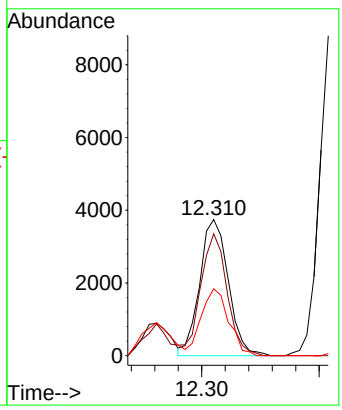
Tgt Ion: 75 Resp: 631

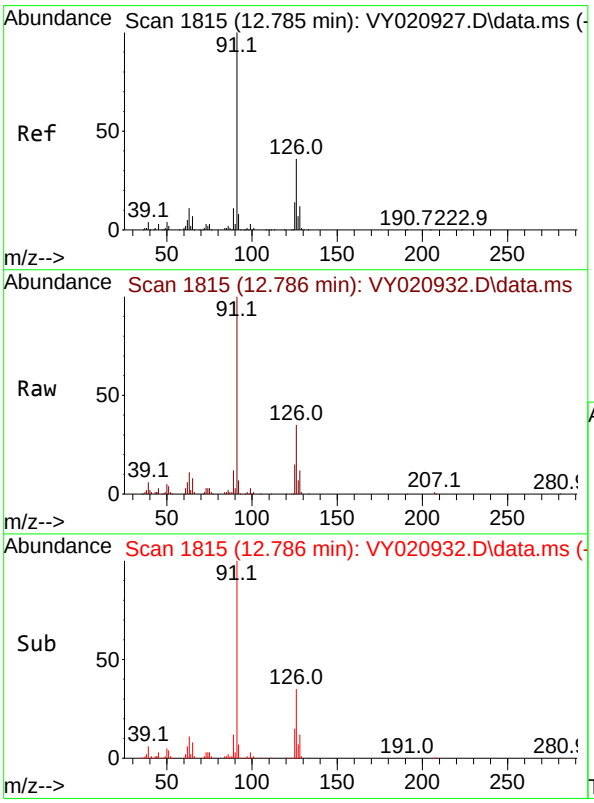
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 83.3 | 67.7 | 101.5 |
| 89 | 47.1 | 38.4 | 57.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

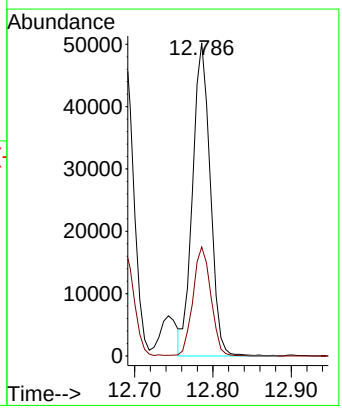


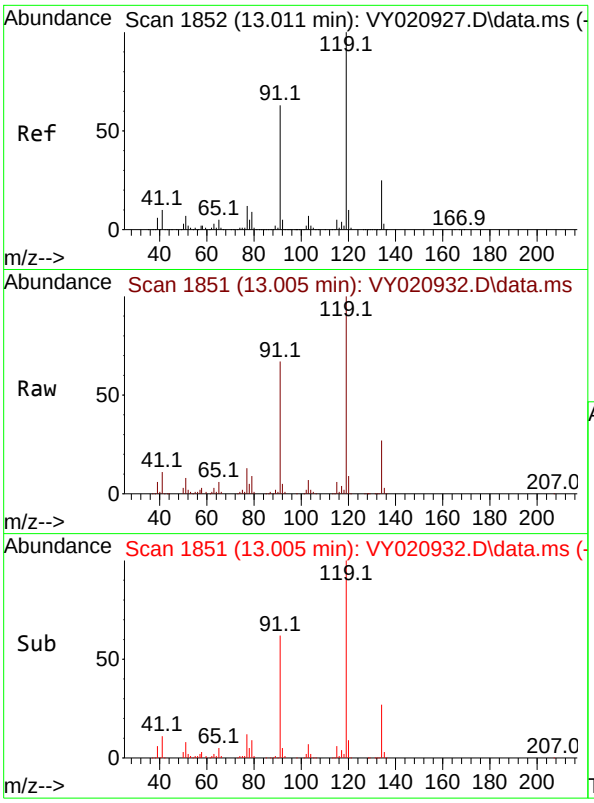




#82
4-Chlorotoluene
Concen: 10.401 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 91 Resp: 78866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.4 | 17.4 | 52.3 |






#83
tert-Butylbenzene
Concen: 10.198 ug/l
RT: 13.005 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

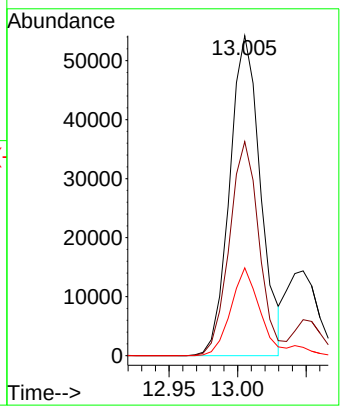
Tgt Ion:119 Resp: 8495

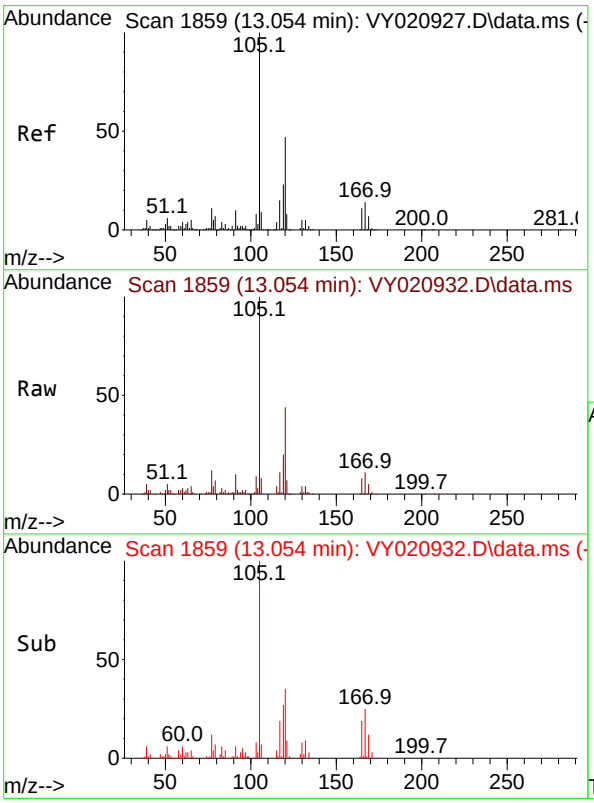
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.1 | 30.9 | 92.8 |
| 134 | 25.9 | 13.1 | 39.3 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

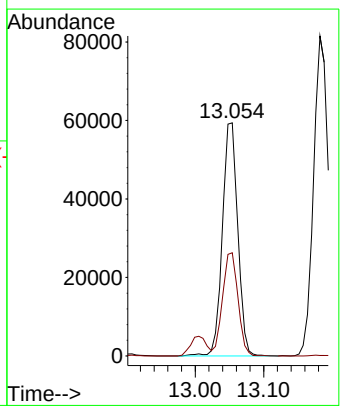


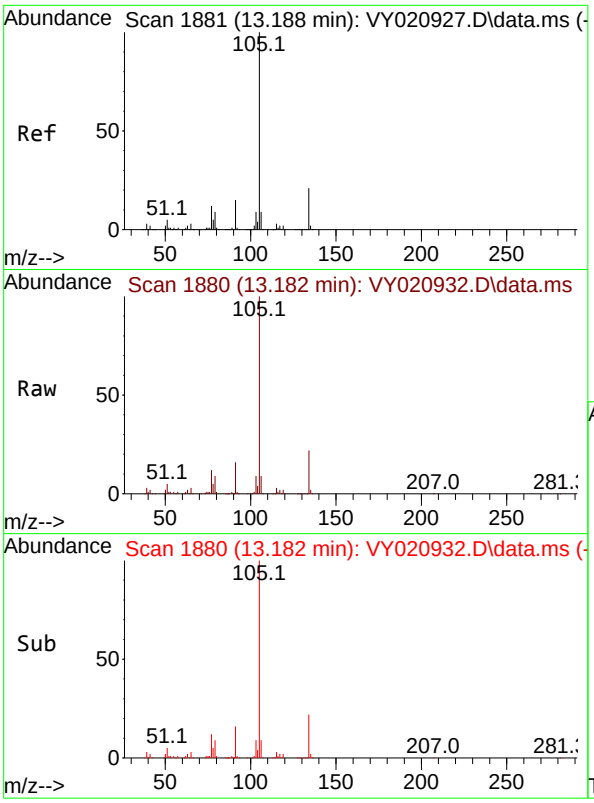




#84
1,2,4-Trimethylbenzene
Concen: 10.392 ug/l
RT: 13.054 min Scan# 1859
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:105 Resp: 92390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.4 | 22.9 | 68.7 |






#85
sec-Butylbenzene
Concen: 10.376 ug/l
RT: 13.182 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

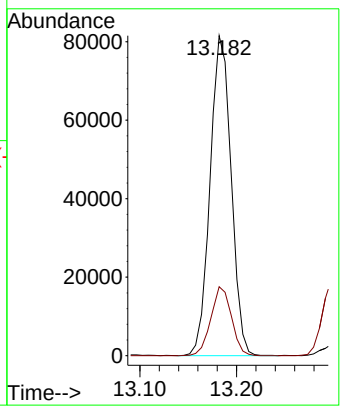
Tgt Ion:105 Resp: 12323

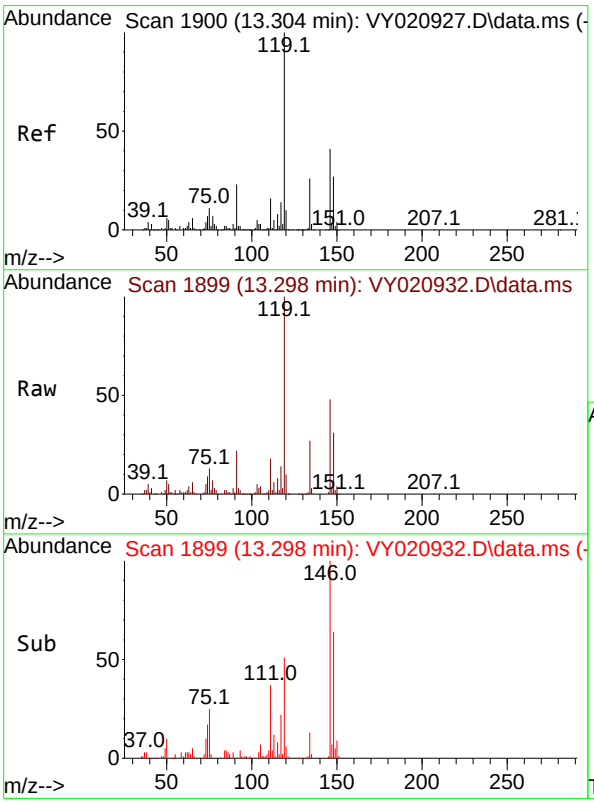
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.1 | 10.4 | 31.4 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

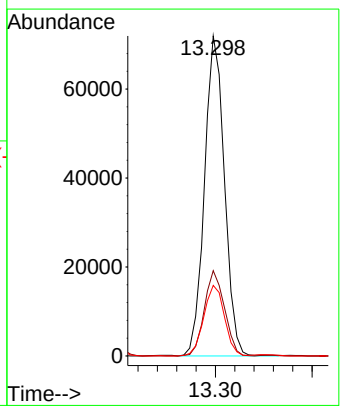


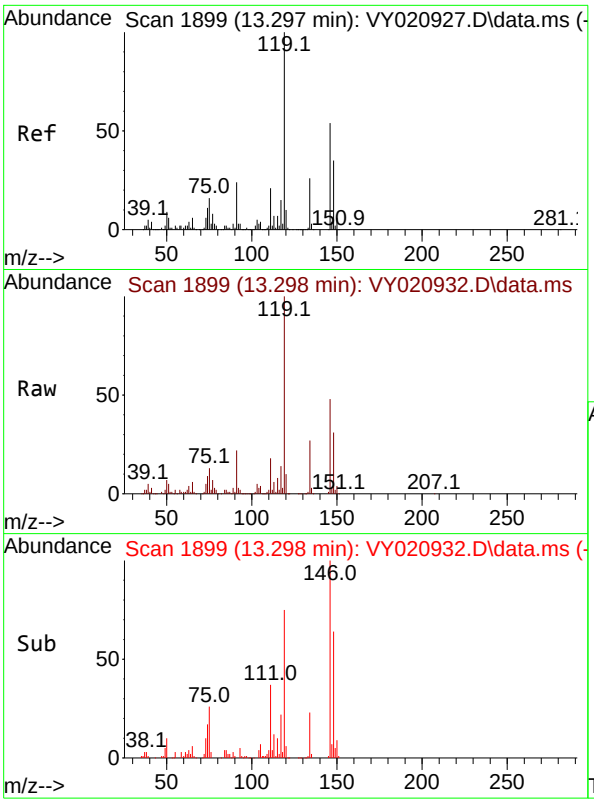




#86
p-Isopropyltoluene
Concen: 10.297 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.006 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:119 Resp: 103320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.8 | 13.3 | 39.8 |
| 91 | 22.8 | 11.6 | 34.7 |






#87
1,3-Dichlorobenzene
Concen: 10.599 ug/l
RT: 13.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

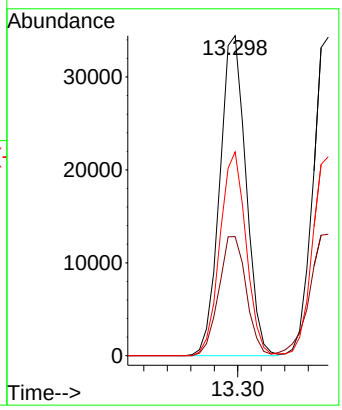
Tgt Ion:146 Resp: 5347

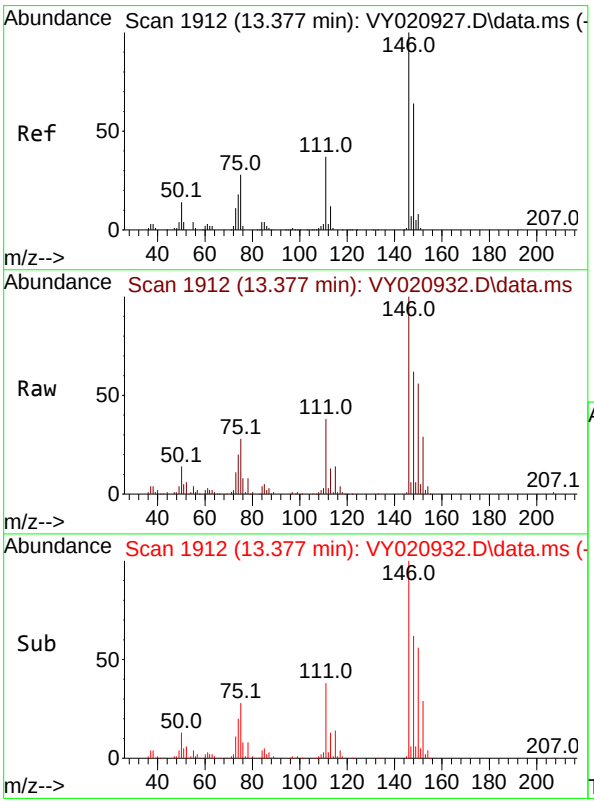
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.9 | 19.4 | 58.2 |
| 148 | 63.5 | 31.9 | 95.7 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

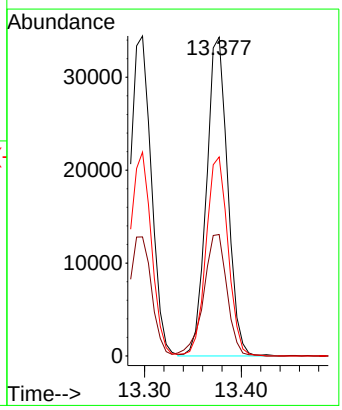


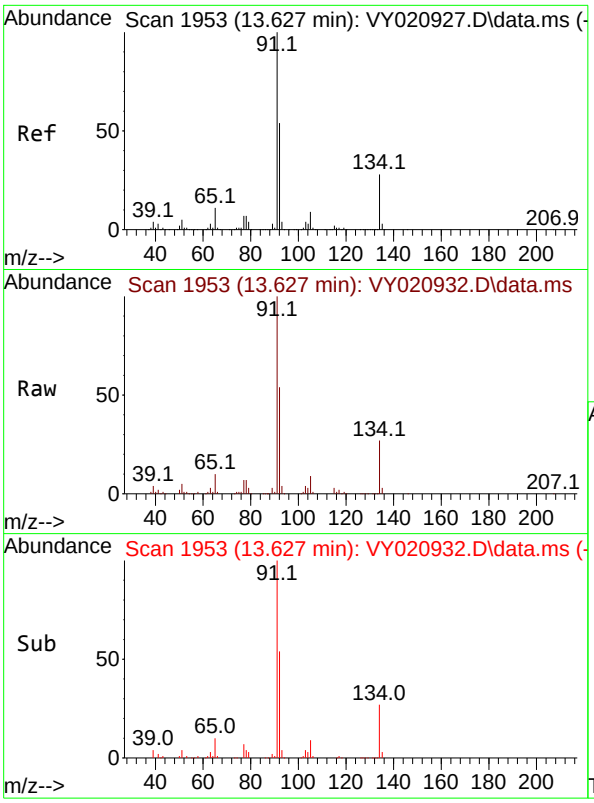




#88
1,4-Dichlorobenzene
Concen: 10.550 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:146 Resp: 52287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.1 | 18.8 | 56.4 |
| 148 | 64.8 | 32.0 | 96.0 |






#89
n-Butylbenzene
Concen: 10.099 ug/l
RT: 13.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

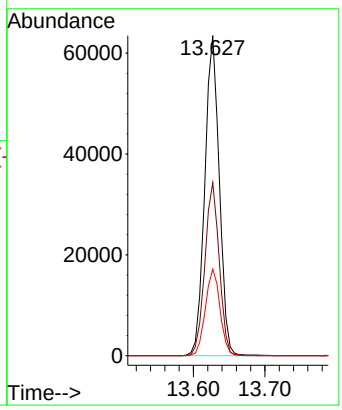
Tgt Ion: 91 Resp: 8937

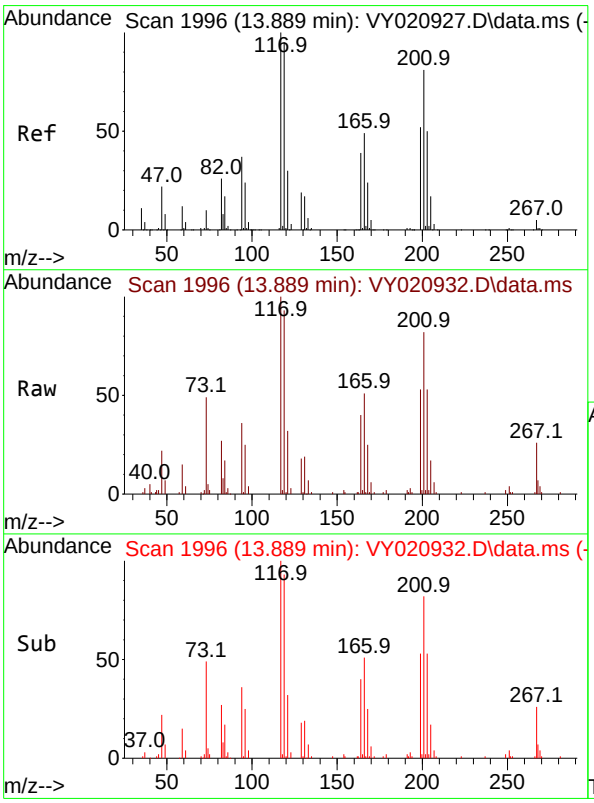
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.5 | 26.8 | 80.3 |
| 134 | 27.2 | 13.8 | 41.4 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

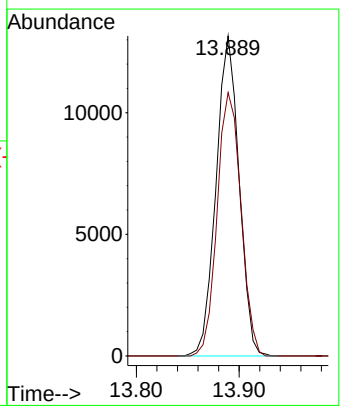


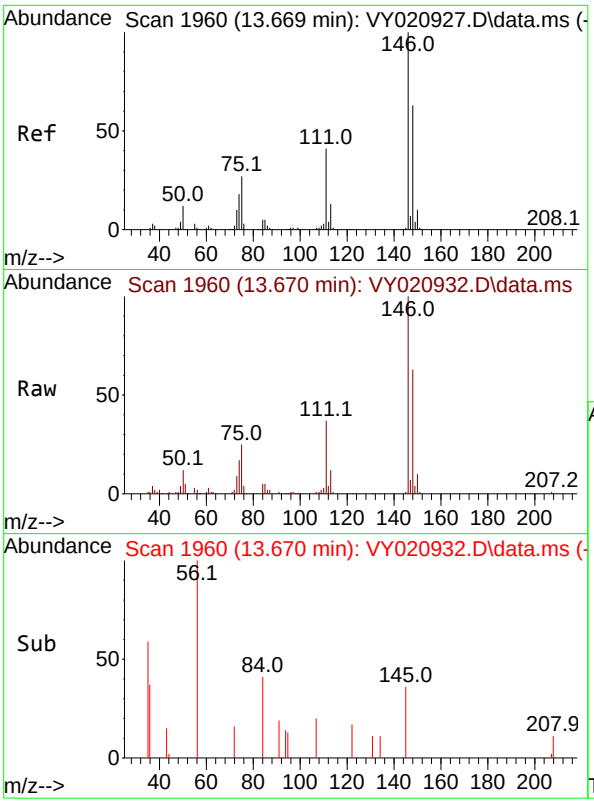




#90
Hexachloroethane
Concen: 10.250 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:117 Resp: 20431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 85.1 | 42.7 | 128.1 |






#91
1,2-Dichlorobenzene
Concen: 10.514 ug/l
RT: 13.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:146 Resp: 4595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.5 | 20.2 | 60.6 |
| 148 | 63.0 | 32.2 | 96.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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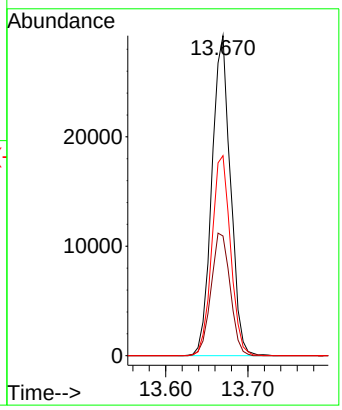
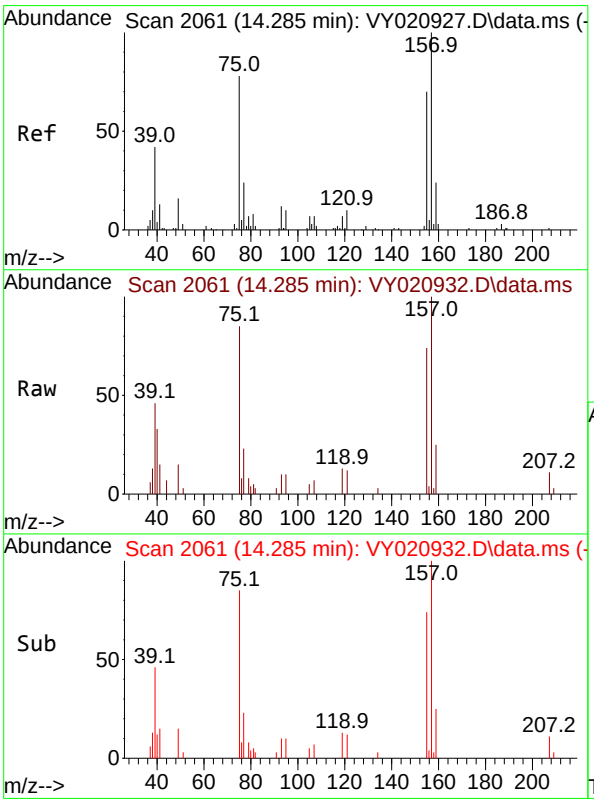
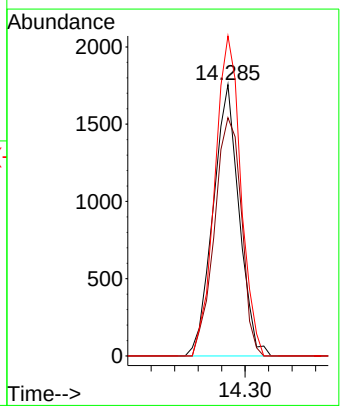


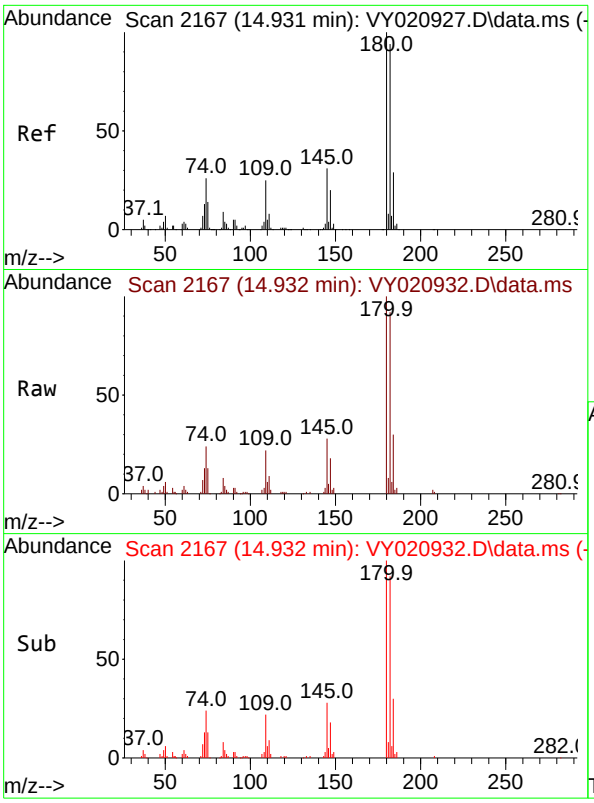




#92
1,2-Dibromo-3-Chloropropane
Concen: 10.274 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion: 75 Resp: 2699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 91.1 | 46.6 | 139.7 |
| 157 | 117.9 | 60.1 | 180.3 |






#93
1,2,4-Trichlorobenzene
Concen: 9.759 ug/l
RT: 14.932 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

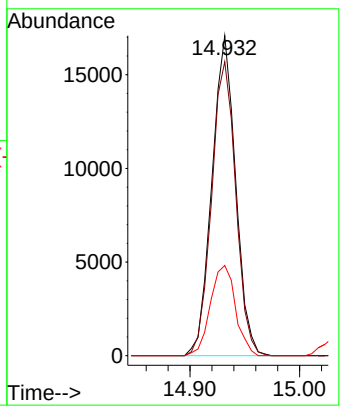
Tgt Ion:180 Resp: 2566

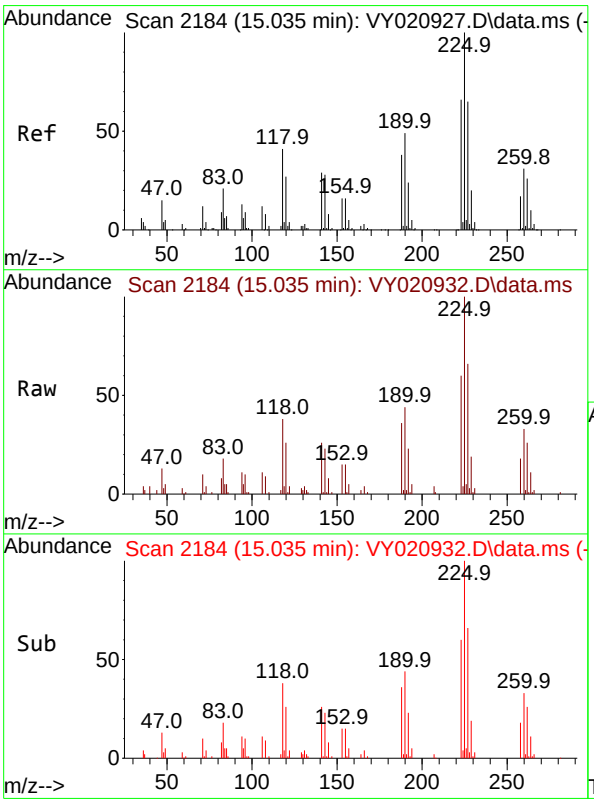
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.5 | 47.0 | 141.2 |
| 145 | 29.8 | 14.9 | 44.5 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

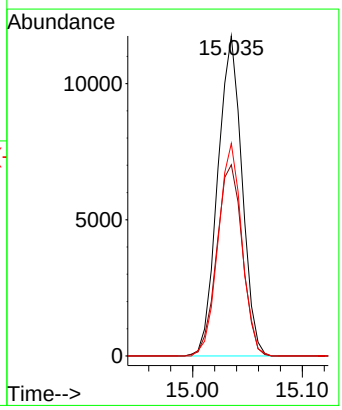


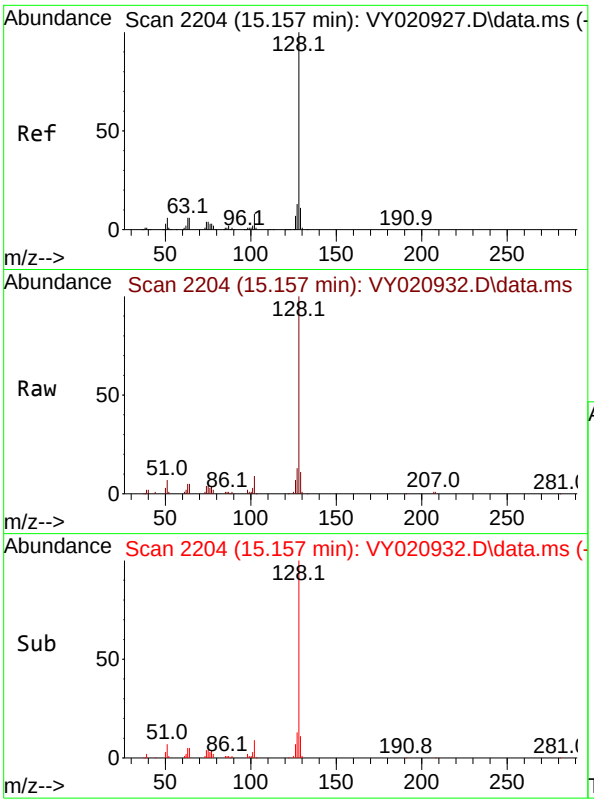




#94
Hexachlorobutadiene
Concen: 10.048 ug/l
RT: 15.035 min Scan# 2184
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:225 Resp: 18077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 31.5 | 94.5 |
| 227 | 64.7 | 31.9 | 95.9 |






#95
Naphthalene
Concen: 9.150 ug/l
RT: 15.157 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

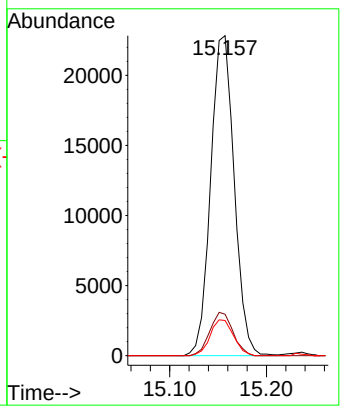
Tgt Ion:128 Resp: 3858

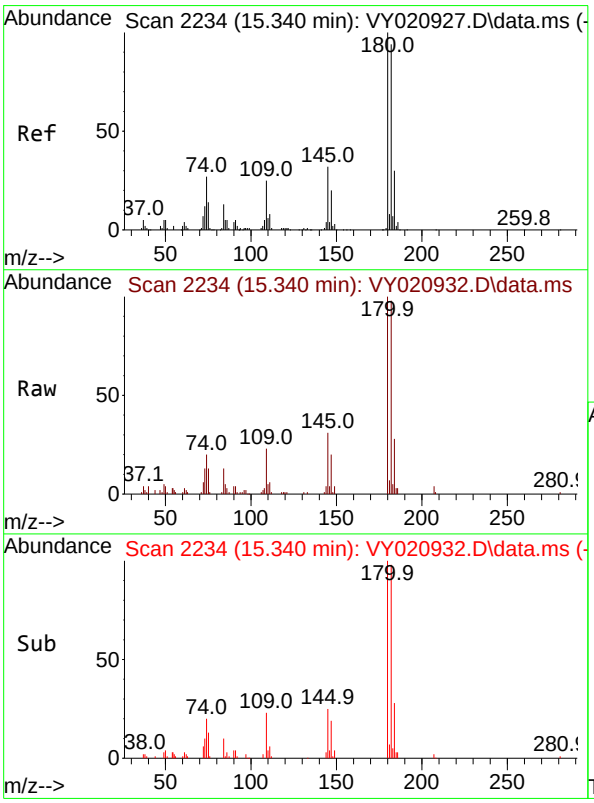
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.3 | 15.5 |
| 129 | 11.2 | 8.8 | 13.2 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

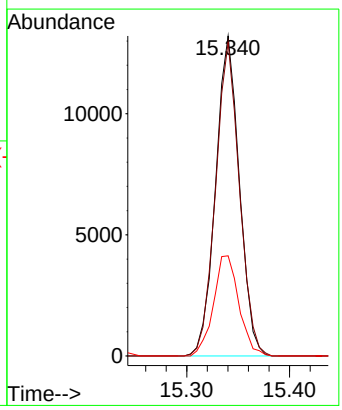



#96
1,2,3-Trichlorobenzene
Concen: 9.581 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020932.D
Acq: 24 Jan 2025 15:59

Tgt Ion:180 Resp: 21166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 98.3 | 47.5 | 142.6 |
| 145 | 33.6 | 15.7 | 47.0 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020933.D
Acq On : 24 Jan 2025 16:21
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 25 00:50:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

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

**Manual Integrations**
**APPROVED**
Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 281879 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 419828 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 342195 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 161896 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 10646 | 4.737 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 9.480%# | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 11086 | 4.600 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 9.200%# | | | |
| 50) Toluene-d8 | 10.115 | 98 | 41178 | 4.405 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 8.800%# | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 13378 | 4.300 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 8.600%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 11106 | 5.209 | ug/l | 98 |
| 3) Chloromethane | 2.074 | 50 | 8479 | 5.347 | ug/l | 94 |
| 4) Vinyl Chloride | 2.208 | 62 | 8700 | 5.034 | ug/l | 95 |
| 5) Bromomethane | 2.604 | 94 | 6882 | 5.879 | ug/l | 93 |
| 6) Chloroethane | 2.745 | 64 | 5140 | 5.069 | ug/l | 93 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 17977 | 4.896 | ug/l | 100 |
| 8) Diethyl Ether | 3.464 | 74 | 5246 | 4.648 | ug/l | 89 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 12332 | 5.090 | ug/l | 97 |
| 10) Methyl Iodide | 4.019 | 142 | 13968 | 4.838 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.842 | 59 | 5388m | 31.056 | ug/l | |
| 12) 1,1-Dichloroethene | 3.805 | 96 | 11301 | 4.939 | ug/l | 93 |
| 13) Acrolein | 3.671 | 56 | 4400 | 18.708 | ug/l | 93 |
| 14) Allyl chloride | 4.397 | 41 | 15437 | 4.834 | ug/l | 97 |
| 15) Acrylonitrile | 5.074 | 53 | 9621 | 21.688 | ug/l | 97 |
| 16) Acetone | 3.873 | 43 | 7330 | 24.072 | ug/l | 90 |
| 17) Carbon Disulfide | 4.116 | 76 | 34877 | 4.936 | ug/l | 100 |
| 18) Methyl Acetate | 4.403 | 43 | 5424 | 4.931 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.128 | 73 | 23699 | 4.472 | ug/l | 97 |
| 20) Methylene Chloride | 4.635 | 84 | 11691 | 5.162 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.128 | 96 | 12413 | 5.032 | ug/l | 96 |
| 22) Diisopropyl ether | 6.031 | 45 | 30193 | 4.700 | ug/l | 94 |
| 23) Vinyl Acetate | 5.976 | 43 | 74699 | 21.011 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.933 | 63 | 19970 | 4.904 | ug/l | 97 |
| 25) 2-Butanone | 6.909 | 43 | 11135 | 21.588 | ug/l | 89 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 21750 | 5.423 | ug/l | 95 |
| 27) cis-1,2-Dichloroethene | 6.902 | 96 | 13712 | 4.925 | ug/l | 97 |
| 28) Bromochloromethane | 7.256 | 49 | 6553 | 3.999 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.274 | 42 | 7033 | 20.459 | ug/l | 97 |
| 30) Chloroform | 7.433 | 83 | 21395 | 4.964 | ug/l | 92 |
| 31) Cyclohexane | 7.713 | 56 | 23036 | 5.756 | ug/l # | 75 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 20789 | 4.973 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 17019 | 5.058 | ug/l | 99 |
| 37) Ethyl Acetate | 6.994 | 43 | 5733 | 4.391 | ug/l # | 96 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 20118 | 4.958 | ug/l | 95 |
| 39) Methylcyclohexane | 9.122 | 83 | 22003 | 4.830 | ug/l | 94 |
| 40) Benzene | 8.091 | 78 | 48520 | 4.915 | ug/l | 97 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020933.D
Acq On : 24 Jan 2025 16:21
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Jan 25 00:50:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 2690 | 3.900 ug/l # | 91 |
| 42) 1,2-Dichloroethane | 8.164 | 62 | 11785 | 4.798 ug/l | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 9892 | 3.996 ug/l | 96 |
| 44) Trichloroethene | 8.872 | 130 | 12984 | 4.841 ug/l | 97 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 10331 | 4.741 ug/l | 99 |
| 46) Dibromomethane | 9.237 | 93 | 5533 | 4.466 ug/l | 95 |
| 47) Bromodichloromethane | 9.432 | 83 | 15563 | 4.721 ug/l | 98 |
| 48) Methyl methacrylate | 9.231 | 41 | 4640 | 3.973 ug/l | 92 |
| 49) 1,4-Dioxane | 9.237 | 88 | 1089 | 85.374 ug/l | 96 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 25282 | 20.253 ug/l | 98 |
| 52) Toluene | 10.176 | 92 | 30300 | 4.772 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 13104 | 4.336 ug/l | 96 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 16741 | 4.639 ug/l | 93 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 7915 | 4.727 ug/l | 98 |
| 56) Ethyl methacrylate | 10.451 | 69 | 8214 | 3.743 ug/l | 95 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 13090 | 4.601 ug/l | 97 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 17897 | 17.967 ug/l | 98 |
| 59) 2-Hexanone | 10.768 | 43 | 14658 | 18.261 ug/l | 99 |
| 60) Dibromochloromethane | 10.920 | 129 | 10778 | 4.573 ug/l | 96 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 7318 | 4.569 ug/l | 96 |
| 64) Tetrachloroethene | 10.658 | 164 | 12240 | 5.140 ug/l | 95 |
| 65) Chlorobenzene | 11.450 | 112 | 33264 | 4.971 ug/l | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 11714 | 4.926 ug/l | 99 |
| 67) Ethyl Benzene | 11.524 | 91 | 56470 | 4.836 ug/l | 99 |
| 68) m/p-Xylenes | 11.639 | 106 | 42909 | 9.597 ug/l | 98 |
| 69) o-Xylene | 11.963 | 106 | 19933 | 4.773 ug/l | 98 |
| 70) Styrene | 11.975 | 104 | 30761 | 4.494 ug/l | 96 |
| 71) Bromoform | 12.139 | 173 | 6090 | 4.523 ug/l # | 98 |
| 73) Isopropylbenzene | 12.261 | 105 | 54948 | 4.928 ug/l | 99 |
| 74) N-amyl acetate | 12.078 | 43 | 7568 | 3.814 ug/l | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.517 | 83 | 7848 | 4.524 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 4726m | 4.129 ug/l | |
| 77) Bromobenzene | 12.542 | 156 | 12881 | 4.928 ug/l | 95 |
| 78) n-propylbenzene | 12.603 | 91 | 64297 | 4.950 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 36759 | 4.990 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 43435 | 4.848 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 2218 | 3.744 ug/l # | 83 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 37376 | 4.969 ug/l | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 40450 | 4.895 ug/l | 96 |
| 84) 1,2,4-Trimethylbenzene | 13.054 | 105 | 42059 | 4.769 ug/l | 99 |
| 85) sec-Butylbenzene | 13.182 | 105 | 57554 | 4.885 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 47891 | 4.811 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.298 | 146 | 24928 | 4.981 ug/l | 98 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 24992 | 5.083 ug/l | 94 |
| 89) n-Butylbenzene | 13.627 | 91 | 41497 | 4.726 ug/l | 100 |
| 90) Hexachloroethane | 13.889 | 117 | 9929 | 5.021 ug/l | 95 |
| 91) 1,2-Dichlorobenzene | 13.670 | 146 | 21618 | 4.985 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 1121 | 4.301 ug/l | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 11281 | 4.325 ug/l | 97 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 9074 | 5.084 ug/l | 99 |
| 95) Naphthalene | 15.157 | 128 | 15707 | 3.755 ug/l | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 9532 | 4.349 ug/l | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020933.D
Acq On : 24 Jan 2025 16:21
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Jan 25 00:50:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

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

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

Quantitation Report (QT Reviewed)

ICAL Form

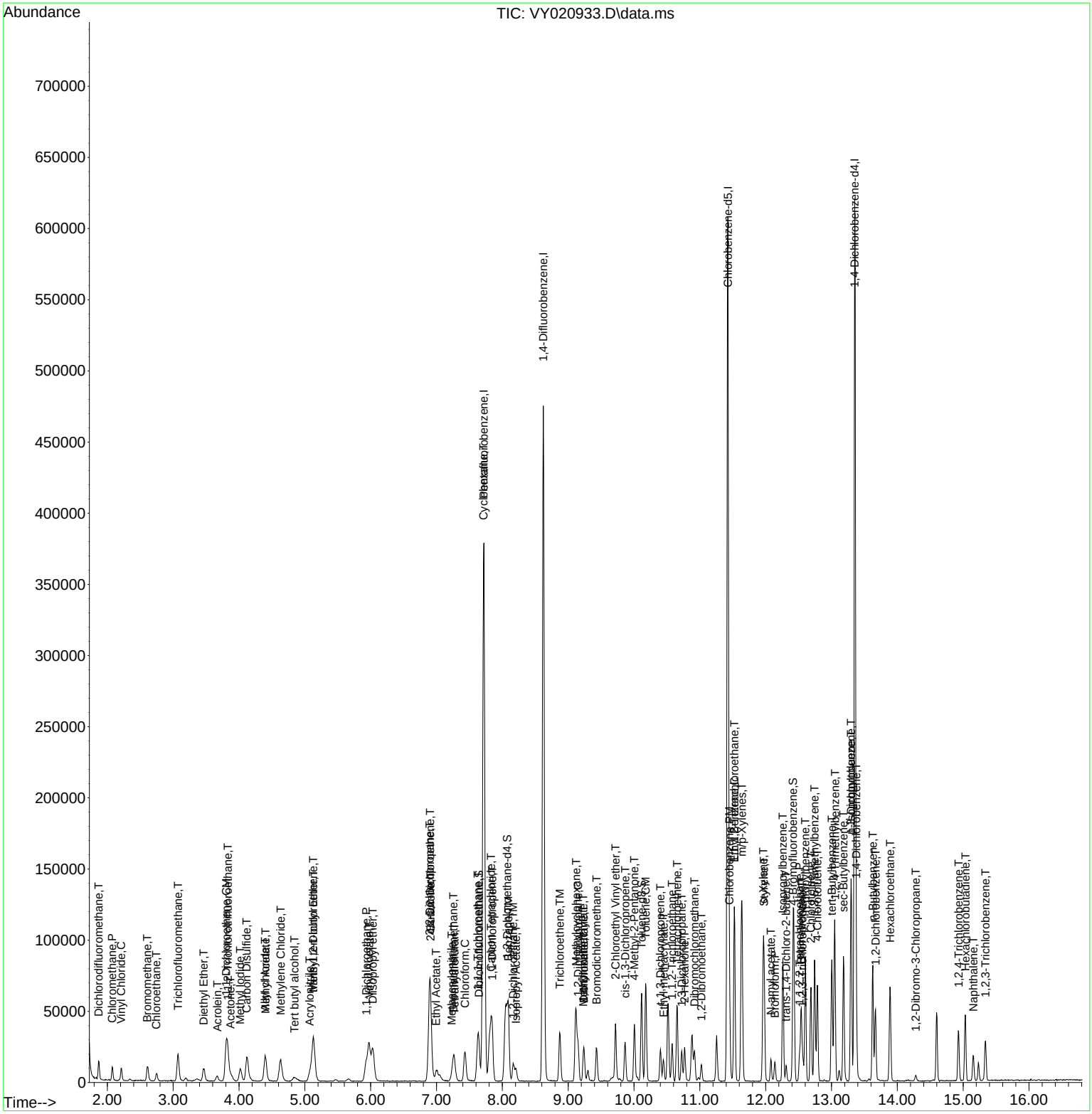
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020933.D
Acq On : 24 Jan 2025 16:21
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

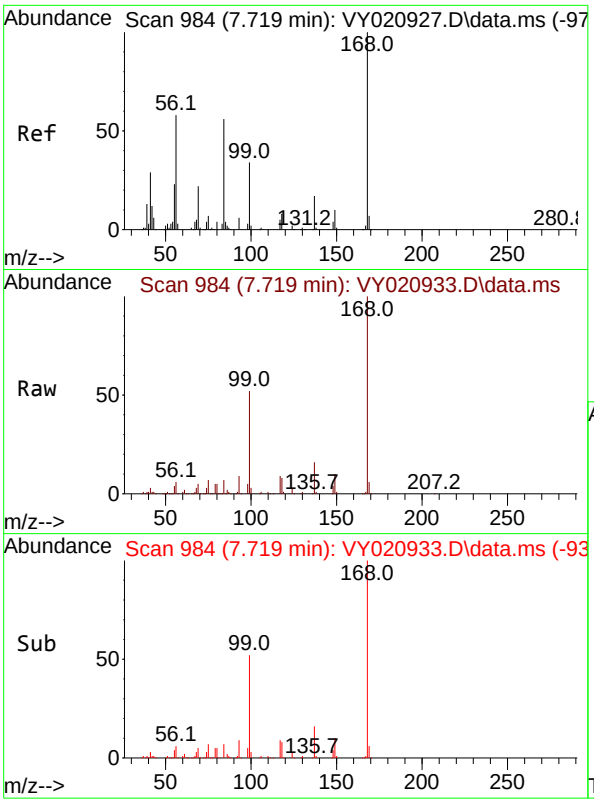
Quant Time: Jan 25 00:50:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 00:43:14 2025
Response via : Initial Calibration

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

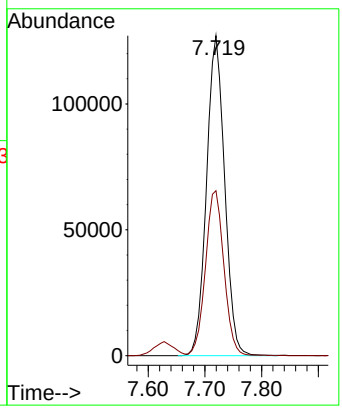
Tgt Ion:168 Resp: 281879

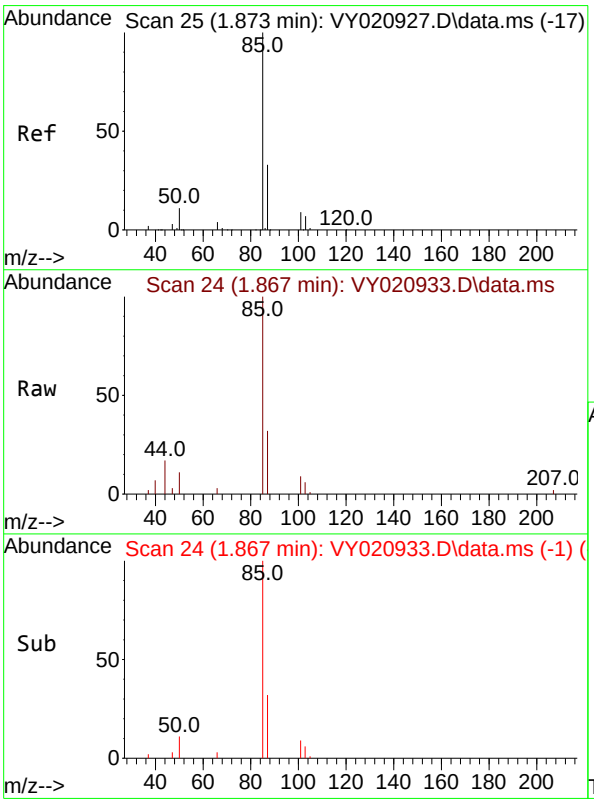
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.5 | 43.0 | 64.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

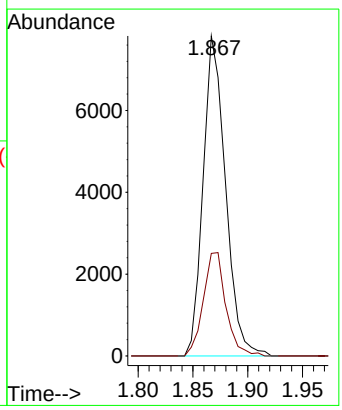


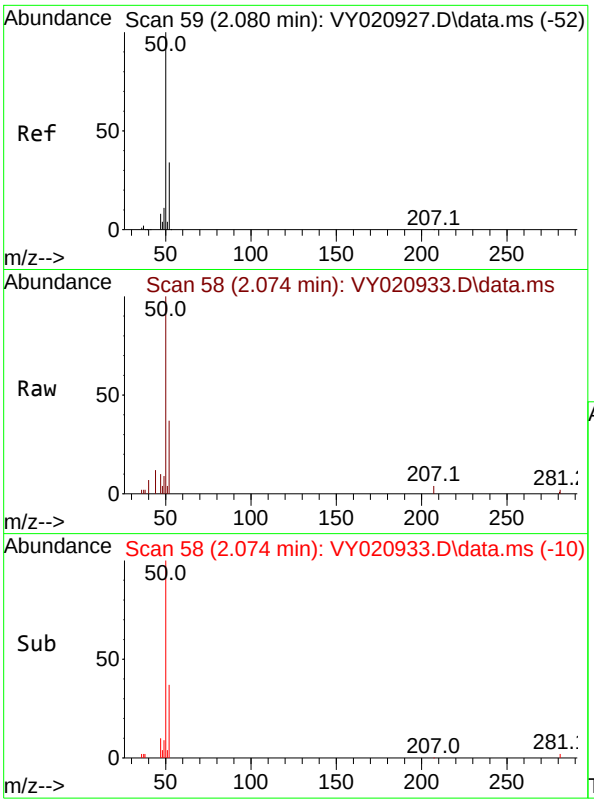




#2
Dichlorodifluoromethane
Concen: 5.209 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 85 Resp: 11106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.1 | 16.6 | 49.8 |






#3
Chloromethane
Concen: 5.347 ug/l
RT: 2.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

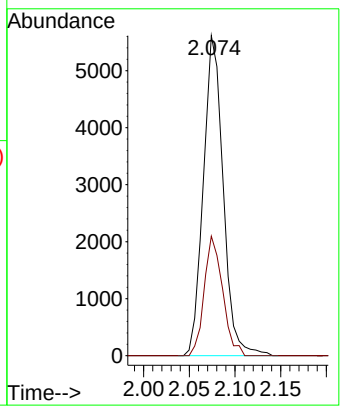
Tgt Ion: 50 Resp: 847

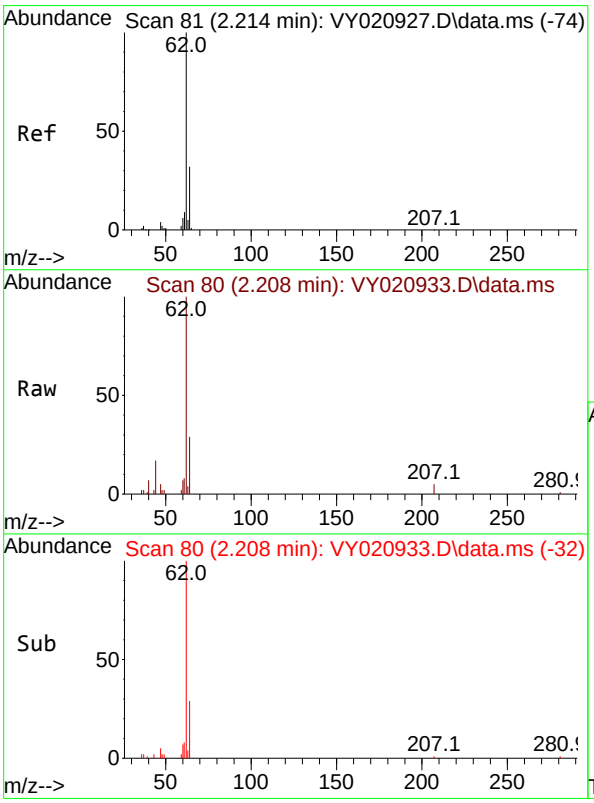
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 37.4 | 27.4 | 41.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

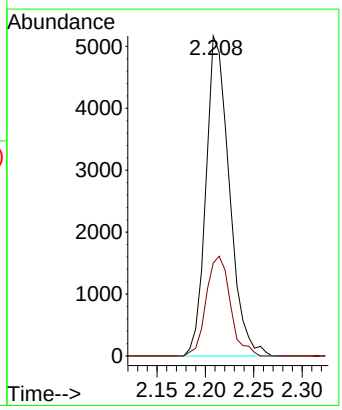


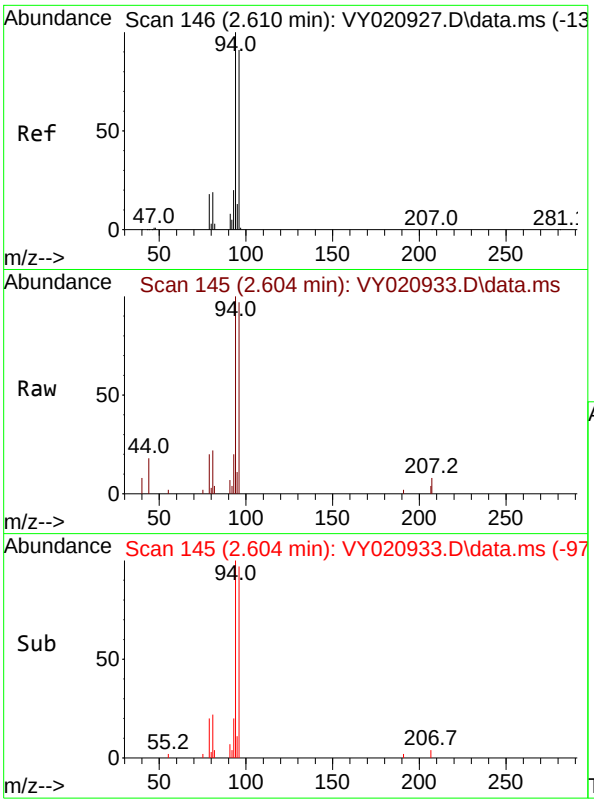




#4
Vinyl Chloride
Concen: 5.034 ug/l
RT: 2.208 min Scan# 80
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 62 Resp: 8700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.1 | 25.7 | 38.5 |






#5
Bromomethane
Concen: 5.879 ug/l
RT: 2.604 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

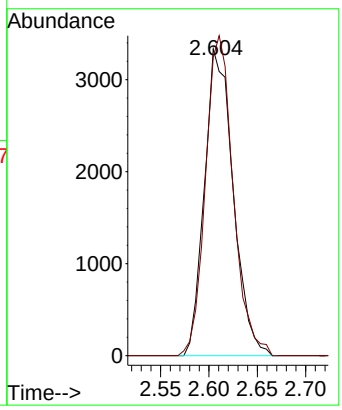
Tgt Ion: 94 Resp: 688

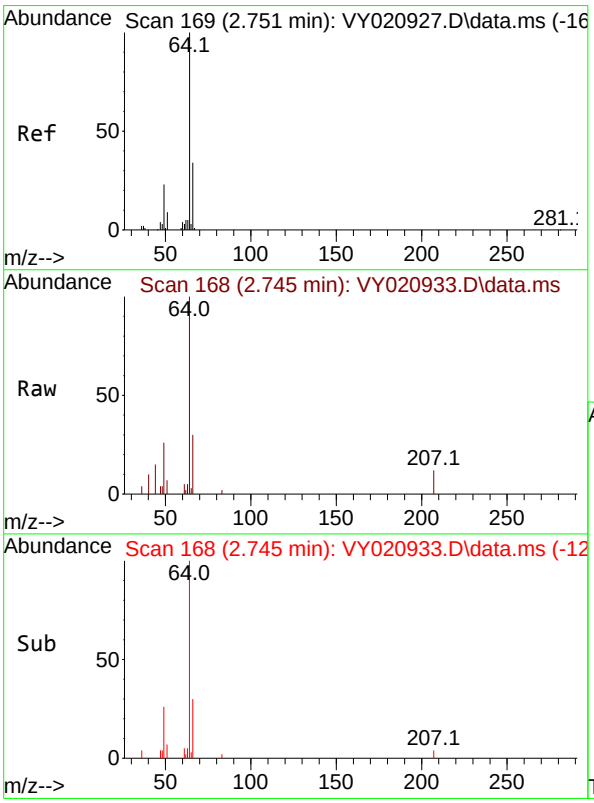
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 97.3 | 72.6 | 109.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

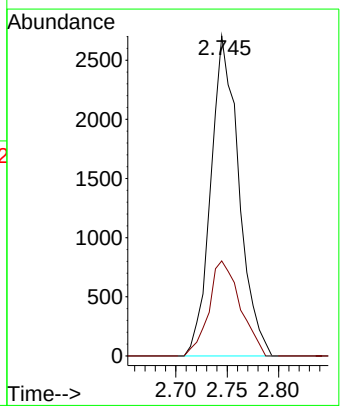


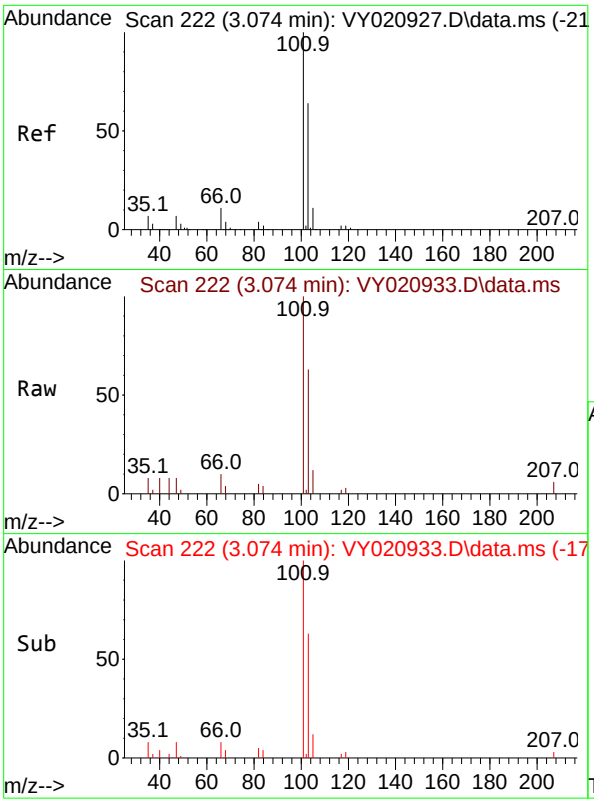




#6
Chloroethane
Concen: 5.069 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 64 Resp: 5140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 29.7 | 26.9 | 40.3 |






#7
Trichlorofluoromethane
Concen: 4.896 ug/l
RT: 3.074 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

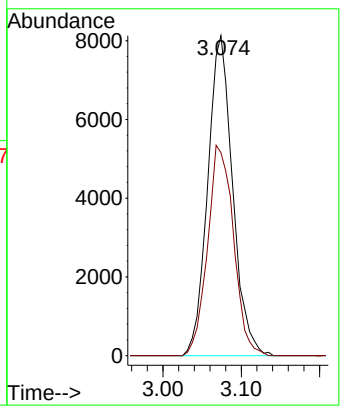
Tgt Ion:101 Resp: 1797

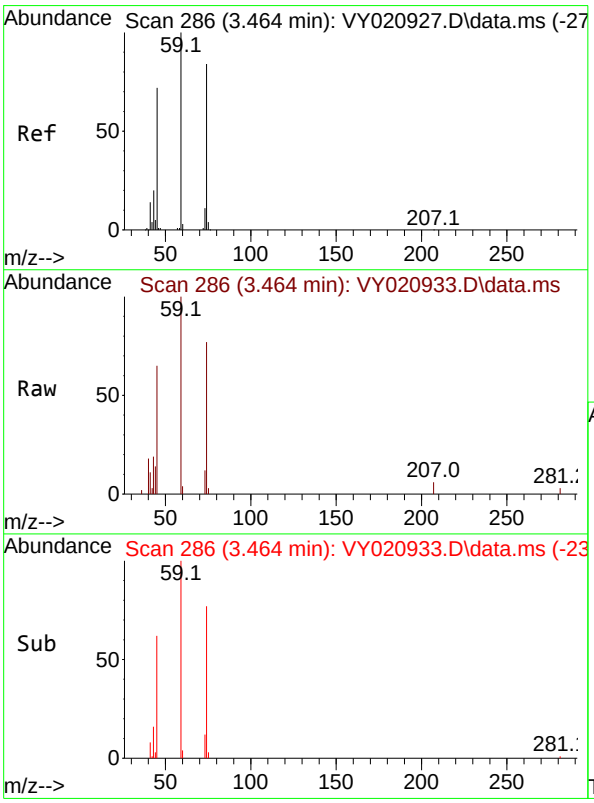
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.4 | 51.0 | 76.4 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

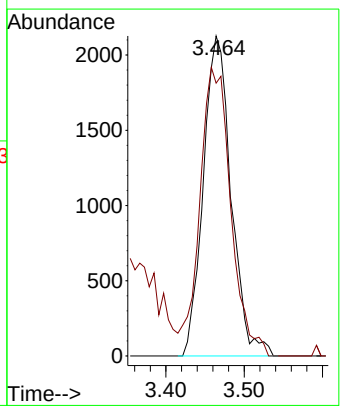


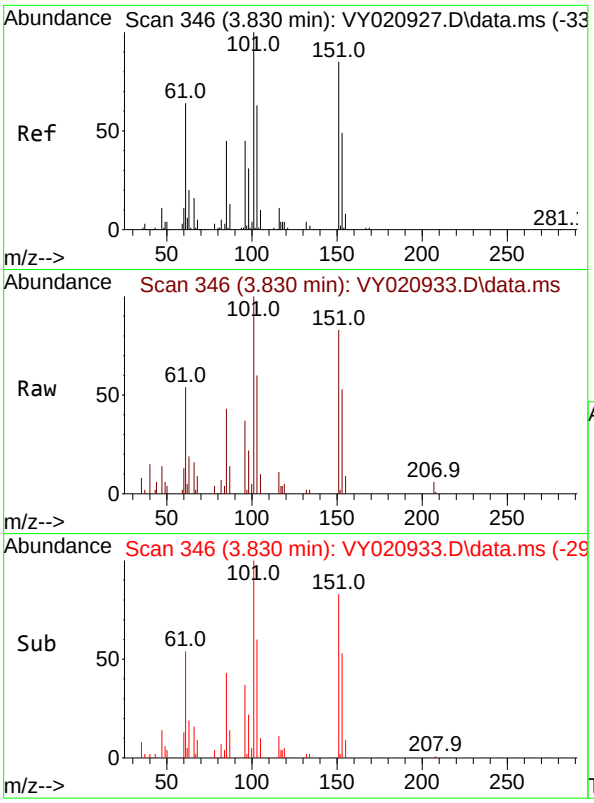




#8
Diethyl Ether
Concen: 4.648 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 74 Resp: 5246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 100.5 | 45.1 | 135.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.090 ug/l
RT: 3.830 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:101 Resp: 1233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.2 | 35.4 | 53.2 |
| 151 | 79.7 | 66.3 | 99.5 |

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

**Manual Integrations**
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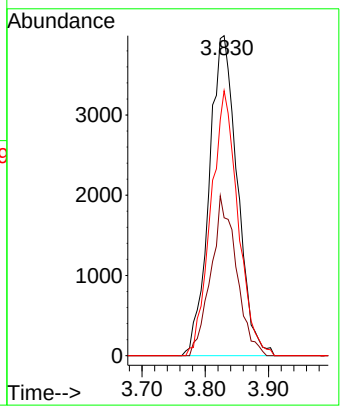
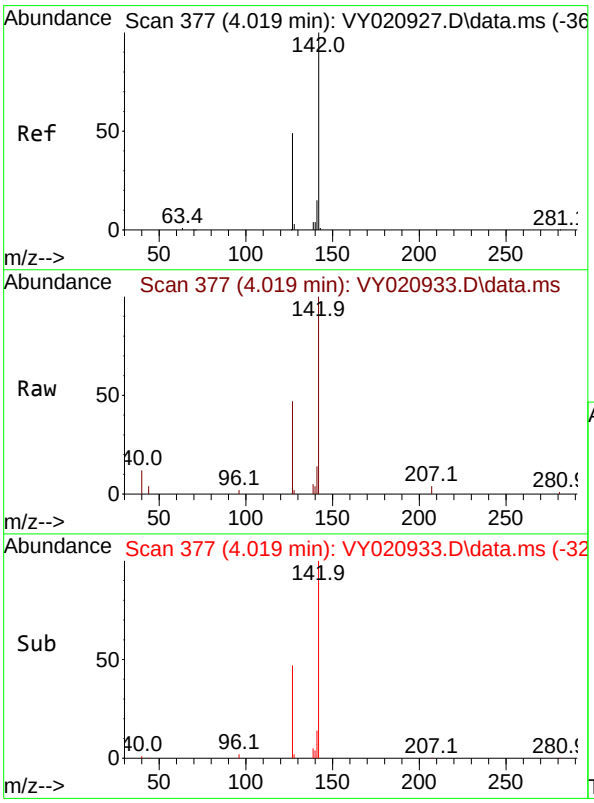
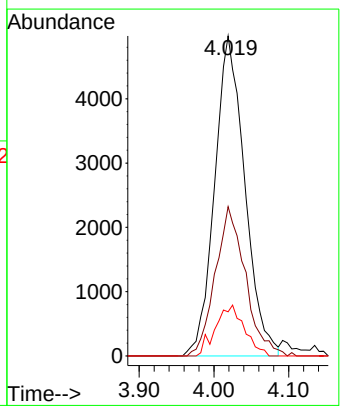


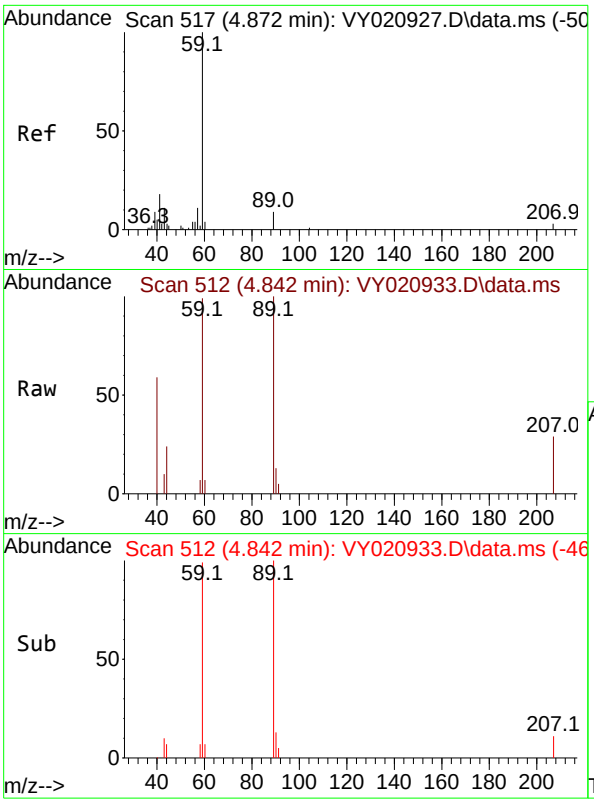




#10
Methyl Iodide
Concen: 4.838 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:142 Resp: 13968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.6 | 37.3 | 55.9 |
| 141 | 15.2 | 11.4 | 17.2 |






#11
Tert butyl alcohol
Concen: 31.056 ug/l m
RT: 4.842 min Scan# 5
Delta R.T. -0.030 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

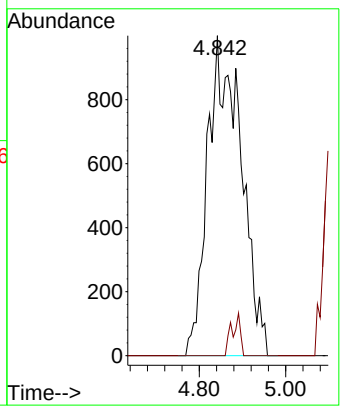
Tgt Ion: 59 Resp: 538

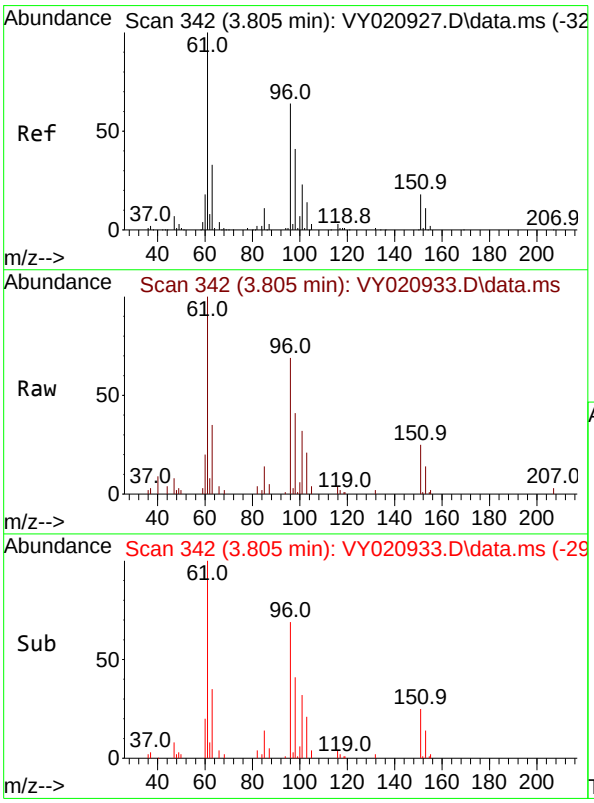
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 7.7 | 11.5 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

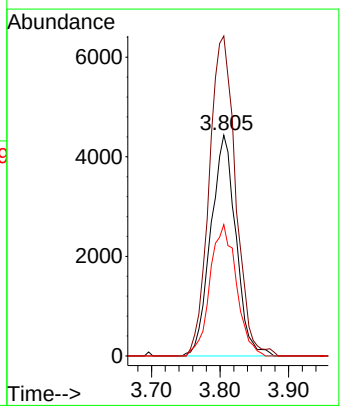


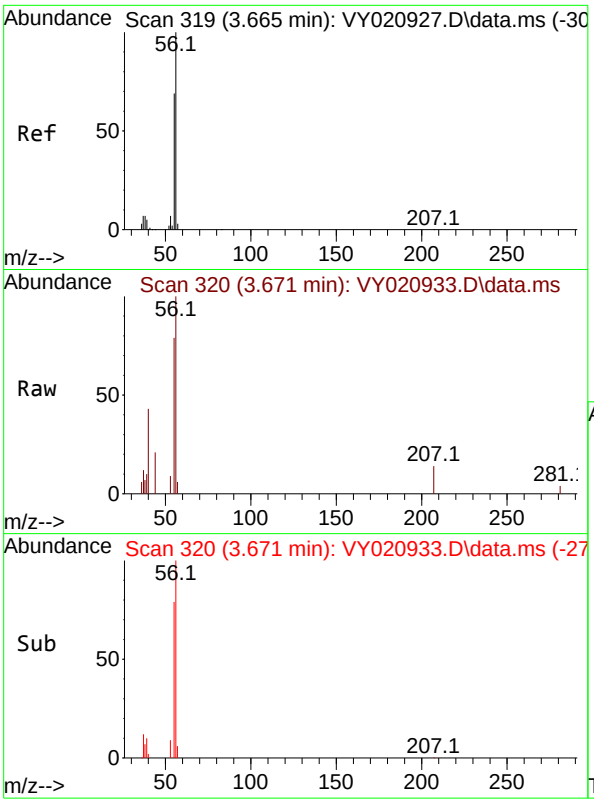




#12
1,1-Dichloroethene
Concen: 4.939 ug/l
RT: 3.805 min Scan# 342
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 96 Resp: 11301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 145.0 | 124.5 | 186.7 |
| 98 | 59.5 | 50.5 | 75.7 |






#13
Acrolein
Concen: 18.708 ug/l
RT: 3.671 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

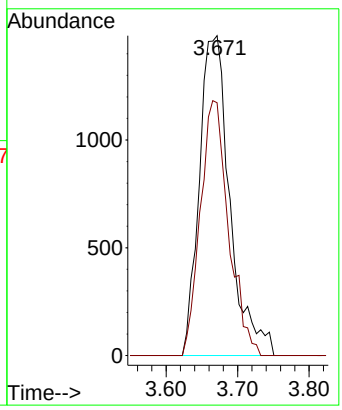
Tgt Ion: 56 Resp: 440

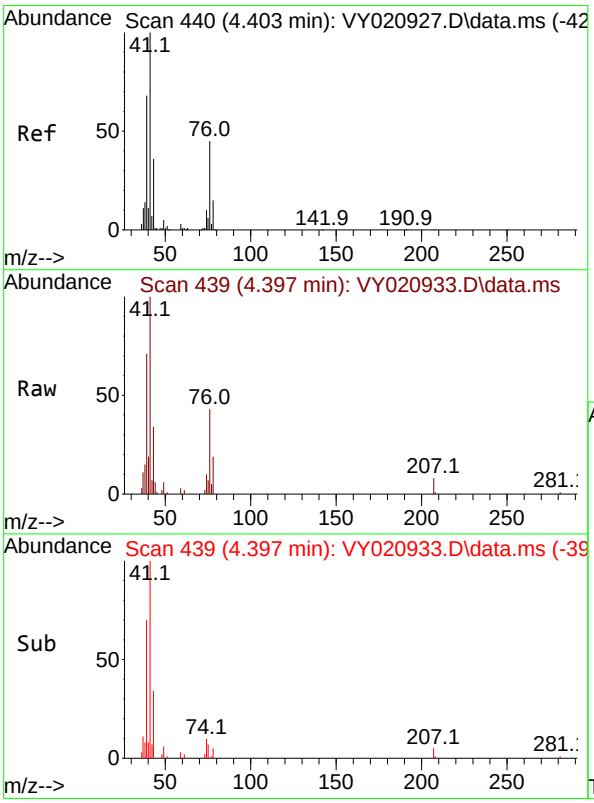
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 73.8 | 54.6 | 81.8 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

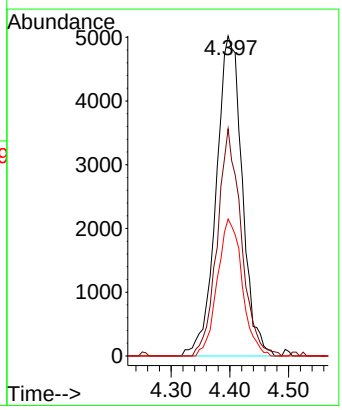


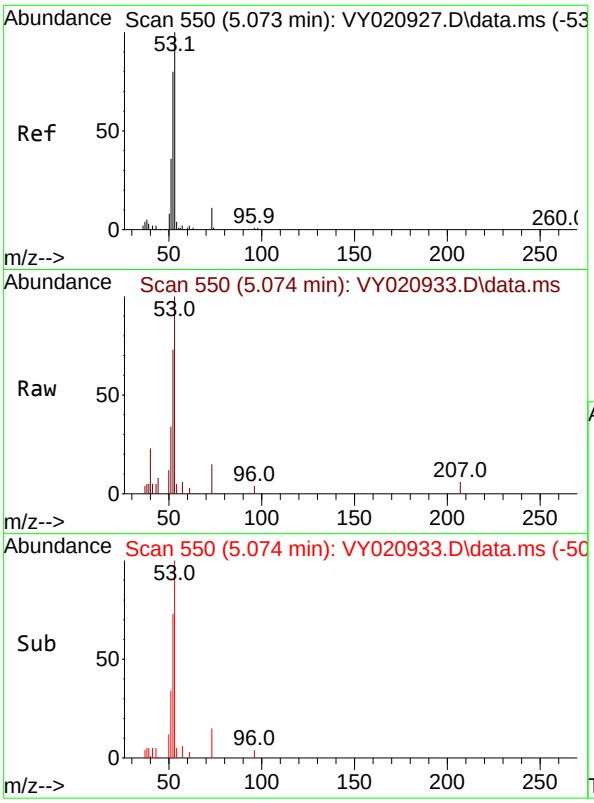




#14
Allyl chloride
Concen: 4.834 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 41 Resp: 15437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 65.6 | 53.8 | 80.6 |
| 76 | 40.7 | 34.2 | 51.4 |






#15
Acrylonitrile
Concen: 21.688 ug/l
RT: 5.074 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

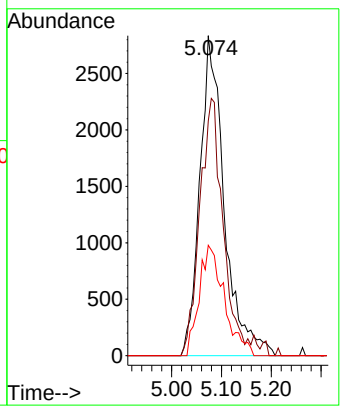
Tgt Ion: 53 Resp: 962

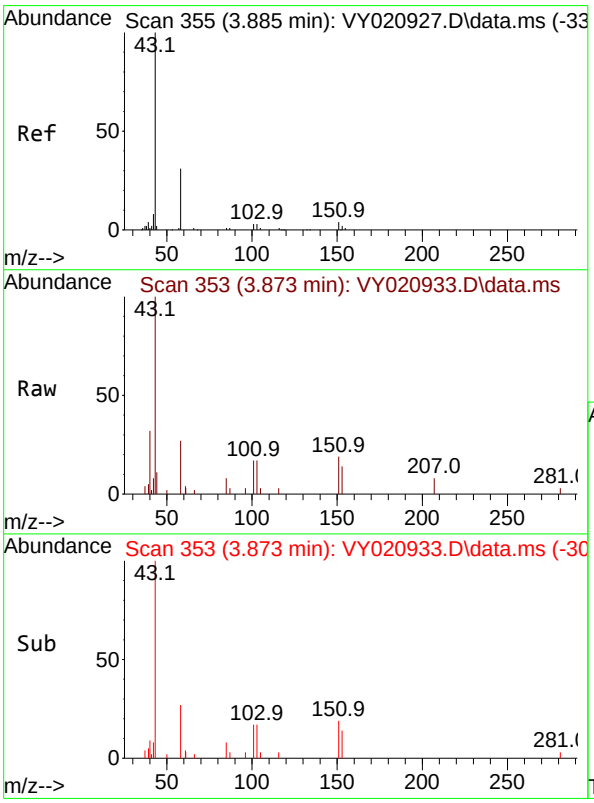
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 76.8 | 64.5 | 96.7 |
| 51 | 35.5 | 28.9 | 43.3 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

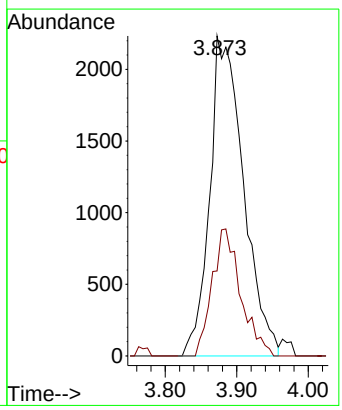


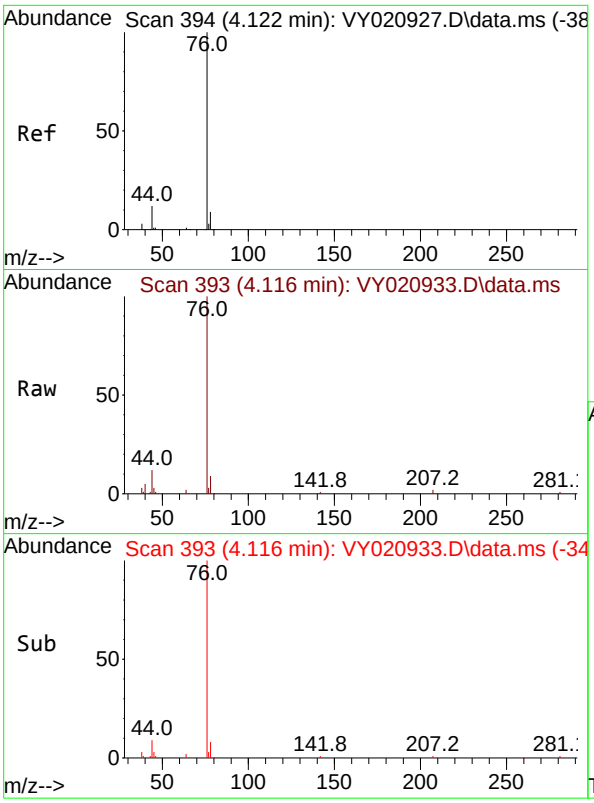




#16
Acetone
Concen: 24.072 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.012 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 43 Resp: 7330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.6 | 25.6 | 38.4 |






#17
Carbon Disulfide
Concen: 4.936 ug/l
RT: 4.116 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

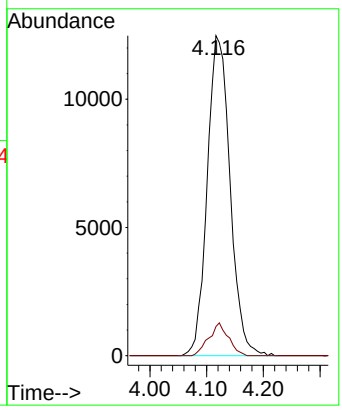
Tgt Ion: 76 Resp: 3487

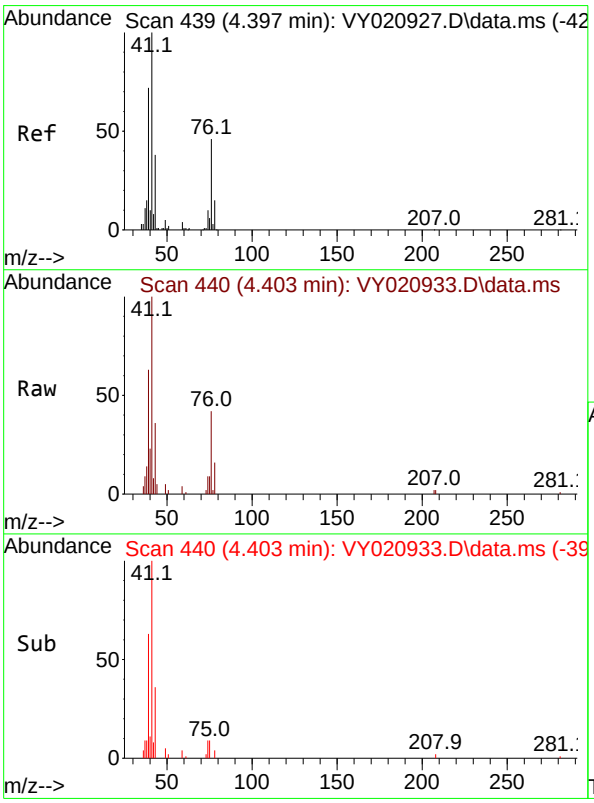
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.2 | 10.8 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

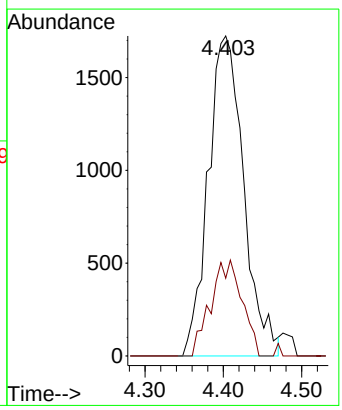


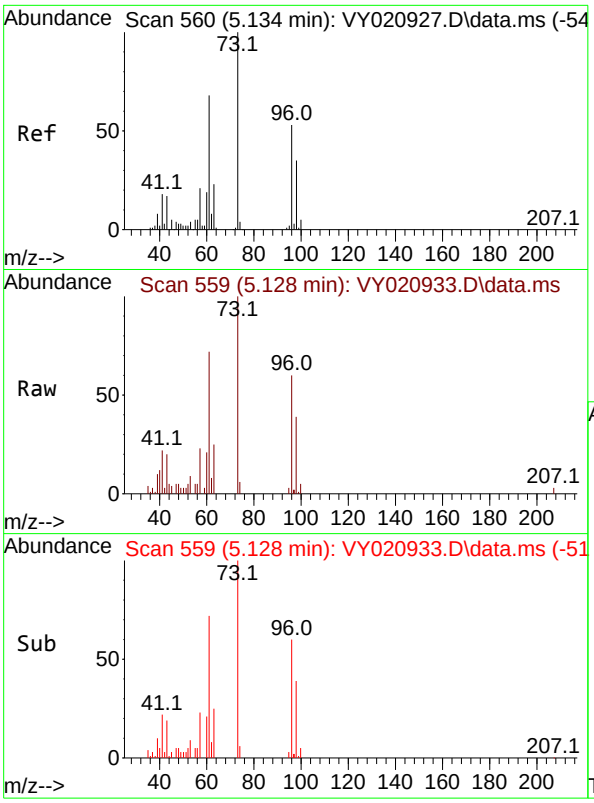




#18
Methyl Acetate
Concen: 4.931 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 43 Resp: 5424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.4 | 21.0 | 31.6 |






#19
Methyl tert-butyl Ether
Concen: 4.472 ug/l
RT: 5.128 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 73 Resp: 2369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.5 | 17.0 | 25.6 |

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

**Manual Integrations**
**APPROVED**

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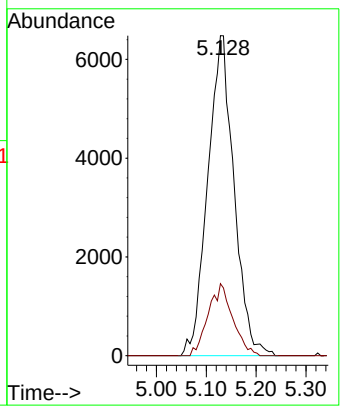
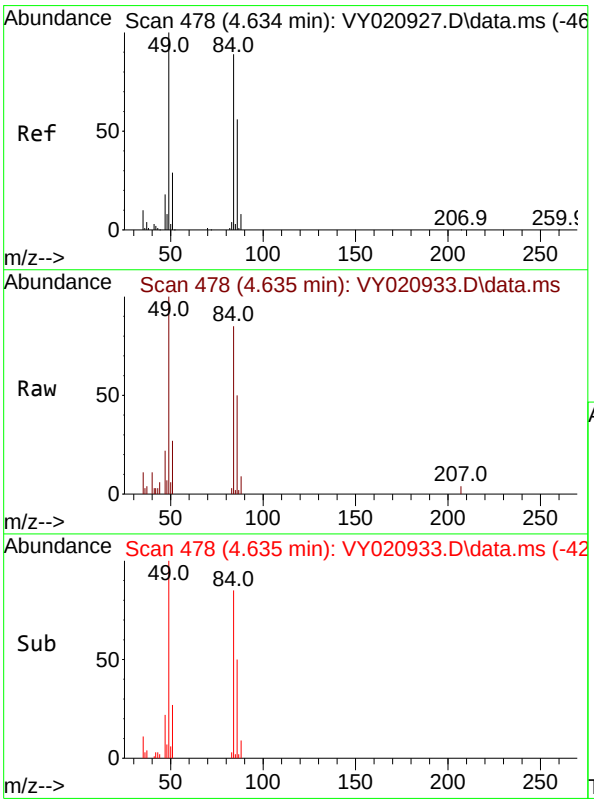
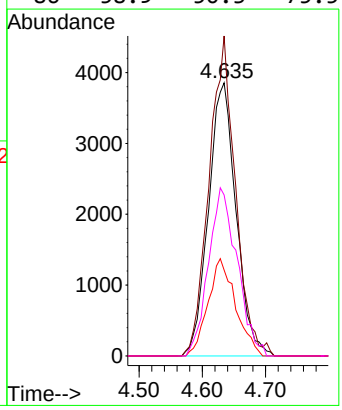


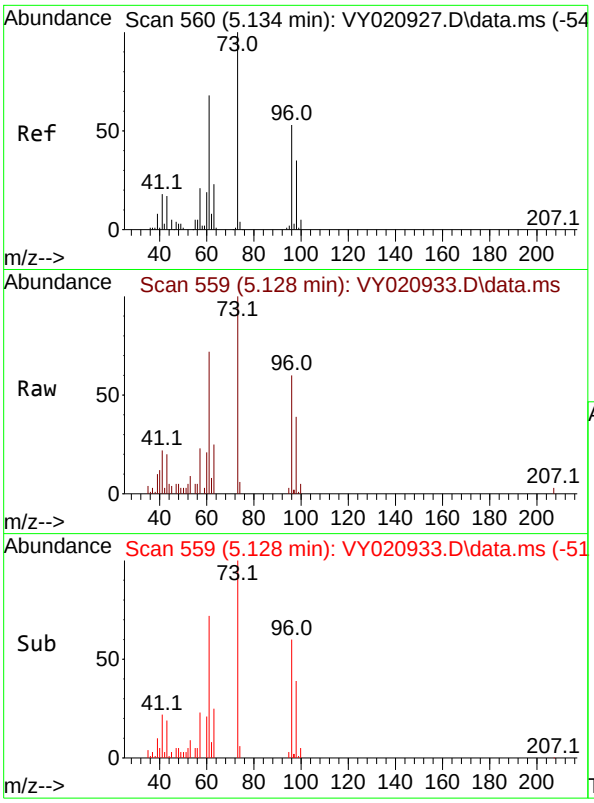




#20
Methylene Chloride
Concen: 5.162 ug/l
RT: 4.635 min Scan# 478
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 84 Resp: 11691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.2 | 90.3 | 135.5 |
| 51 | 31.4 | 26.6 | 39.8 |
| 86 | 58.9 | 50.3 | 75.5 |






#21
trans-1,2-Dichloroethene
Concen: 5.032 ug/l
RT: 5.128 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 96 Resp: 1241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 121.8 | 102.4 | 153.6 |
| 98 | 65.8 | 52.0 | 78.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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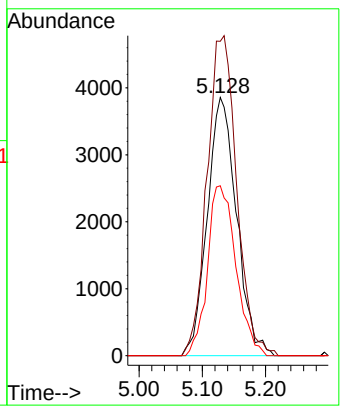
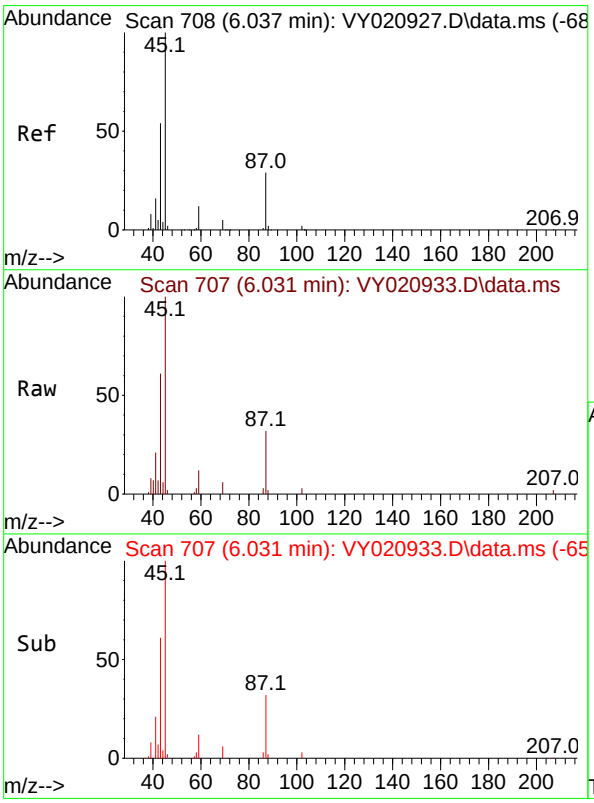
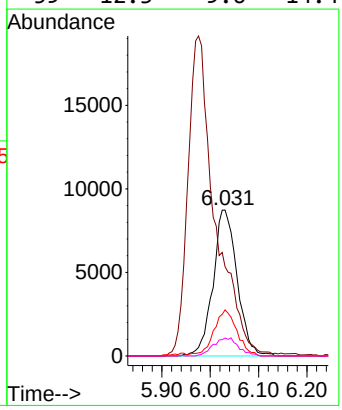


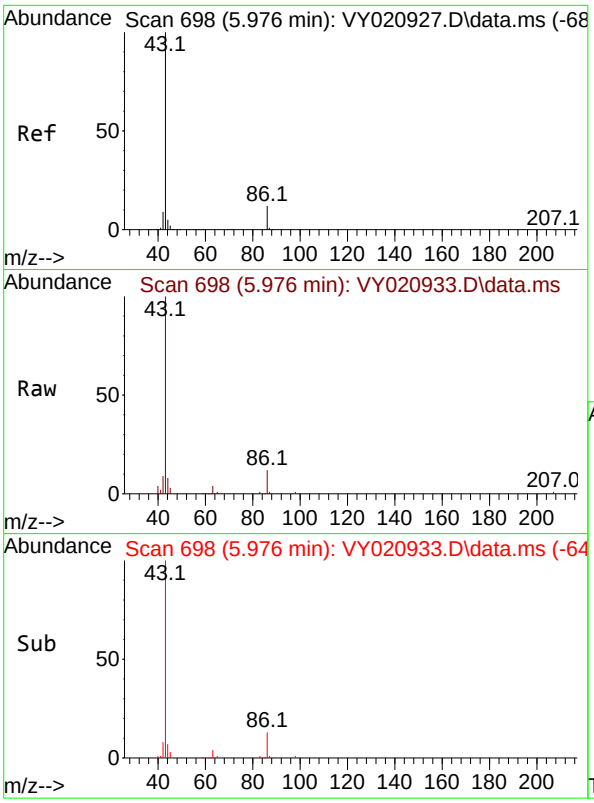




#22
Diisopropyl ether
Concen: 4.700 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 45 Resp: 30193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.8 | 43.2 | 64.8 |
| 87 | 31.6 | 23.4 | 35.0 |
| 59 | 12.3 | 9.6 | 14.4 |






#23
Vinyl Acetate
Concen: 21.011 ug/l
RT: 5.976 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 43 Resp: 7469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.5 | 9.8 | 14.6 |

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

**Manual Integrations**
**APPROVED**

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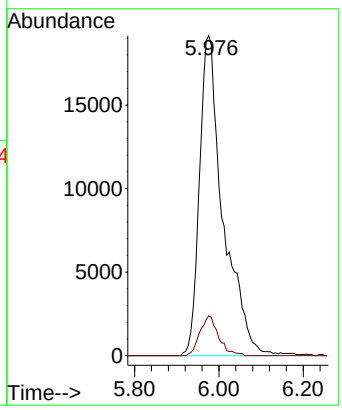
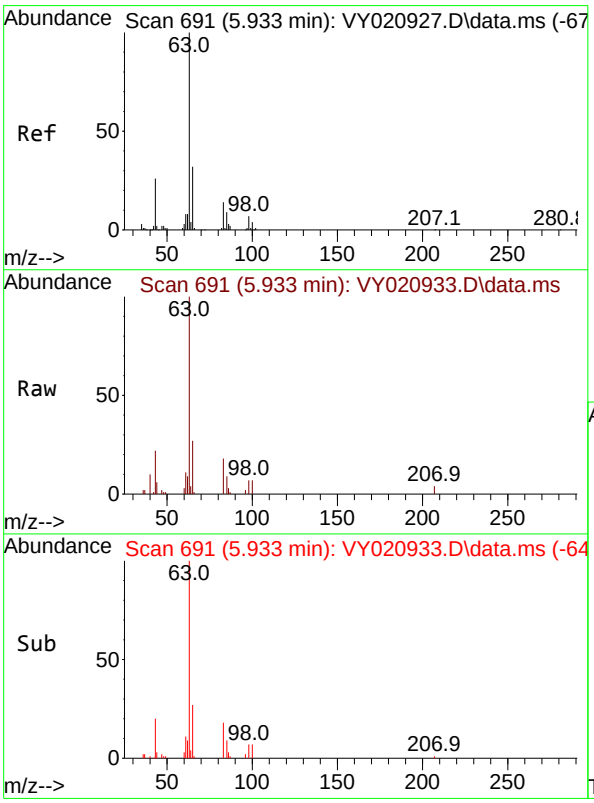
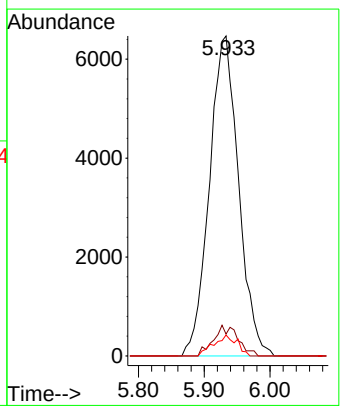


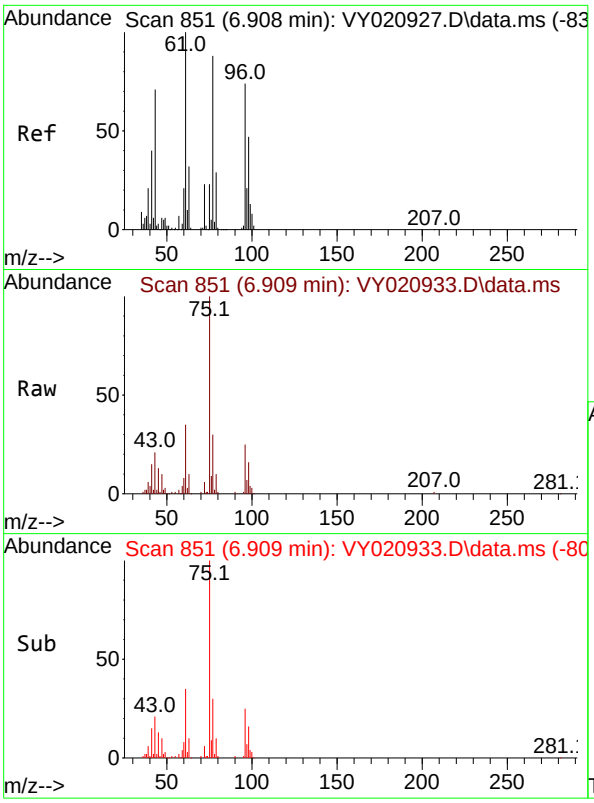




#24
1,1-Dichloroethane
Concen: 4.904 ug/l
RT: 5.933 min Scan# 691
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 63 Resp: 19970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.9 | 3.7 | 11.1 |
| 100 | 6.6 | 2.3 | 6.8 |






#25
2-Butanone
Concen: 21.588 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

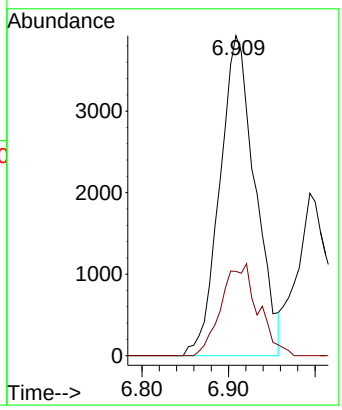
Tgt Ion: 43 Resp: 1113

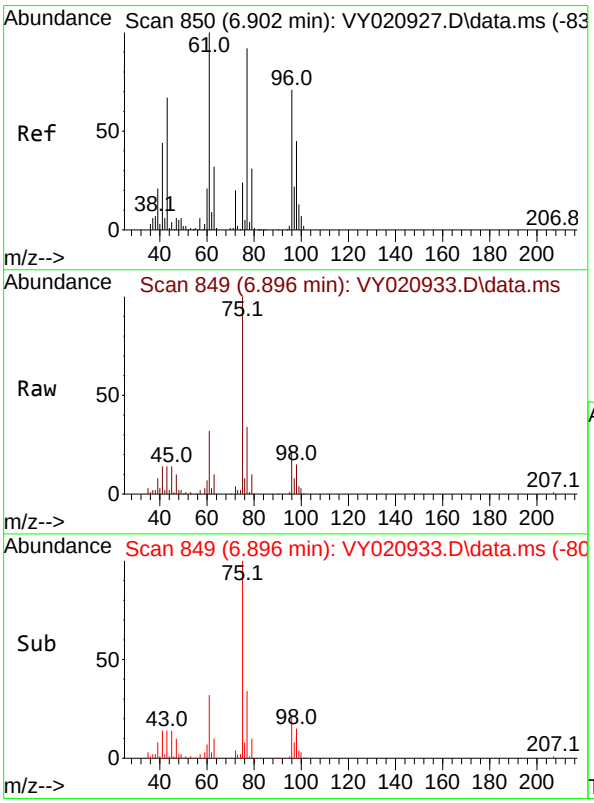
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.4 | 25.8 | 38.8 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

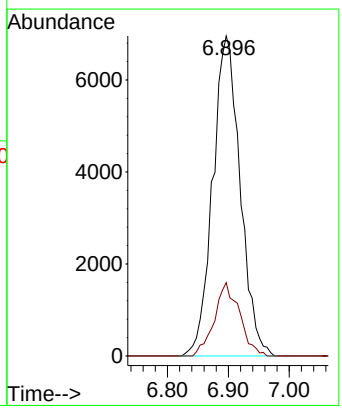


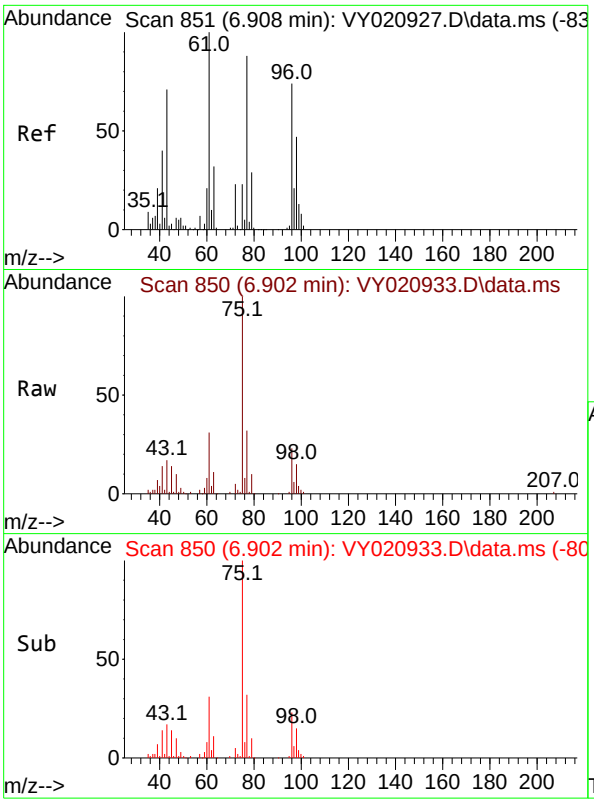




#26
2,2-Dichloropropane
Concen: 5.423 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 77 Resp: 21750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.0 | 11.7 | 35.1 |






#27
cis-1,2-Dichloroethene
Concen: 4.925 ug/l
RT: 6.902 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

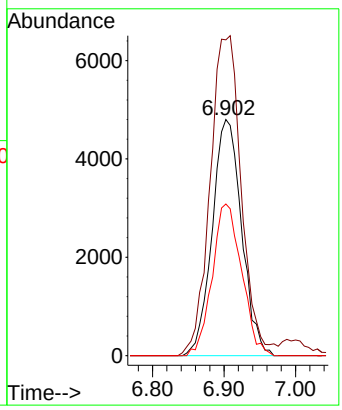
Tgt Ion: 96 Resp: 1371

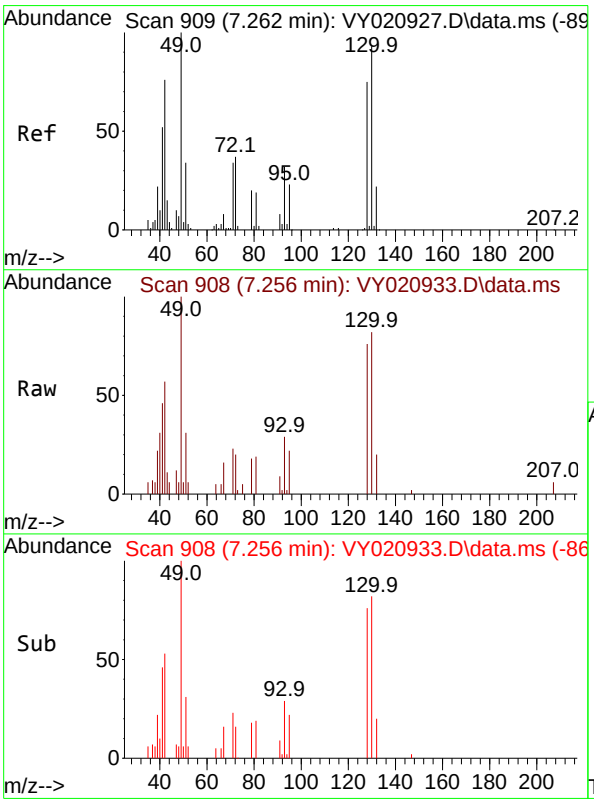
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 143.1 | 0.0 | 275.2 |
| 98 | 64.3 | 0.0 | 129.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

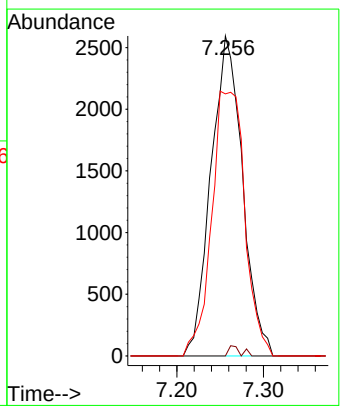


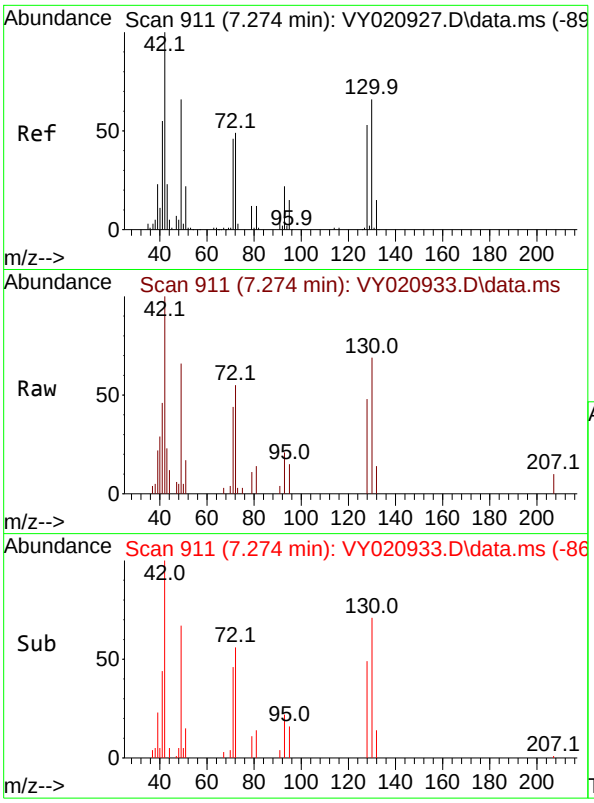




#28
Bromochloromethane
Concen: 3.999 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 49 Resp: 6553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.2 | 0.0 | 4.6 |
| 130 | 86.8 | 72.6 | 109.0 |






#29
Tetrahydrofuran
Concen: 20.459 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

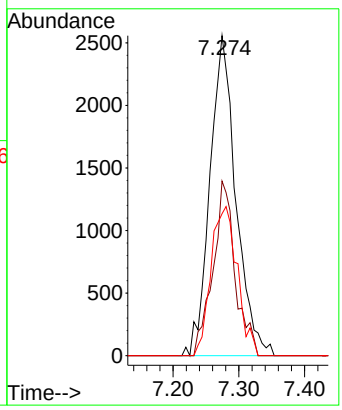
Tgt Ion: 42 Resp: 703

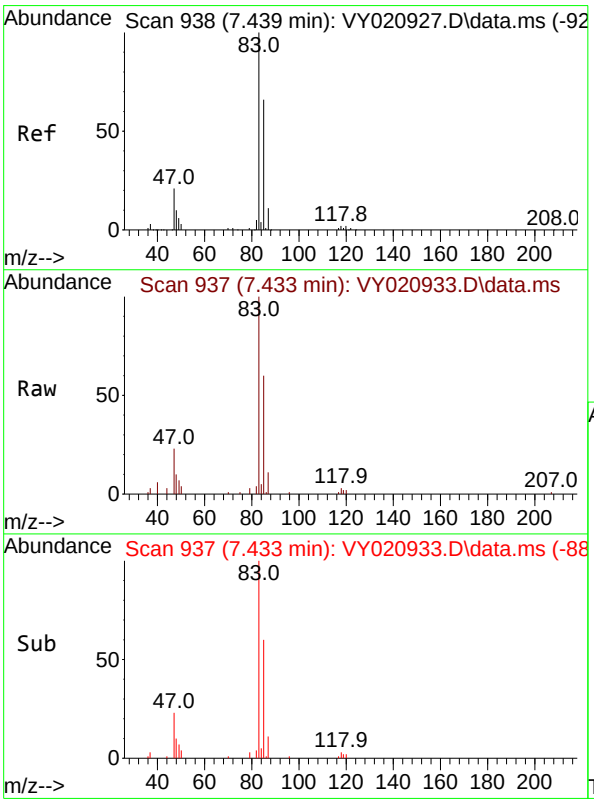
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.7 | 38.8 | 58.2 |
| 71 | 47.0 | 36.4 | 54.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

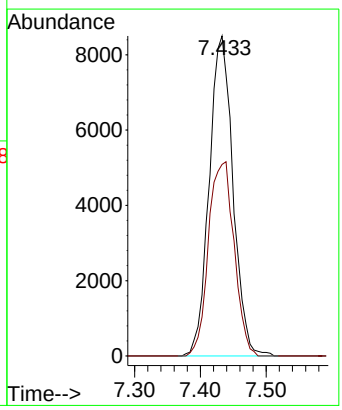


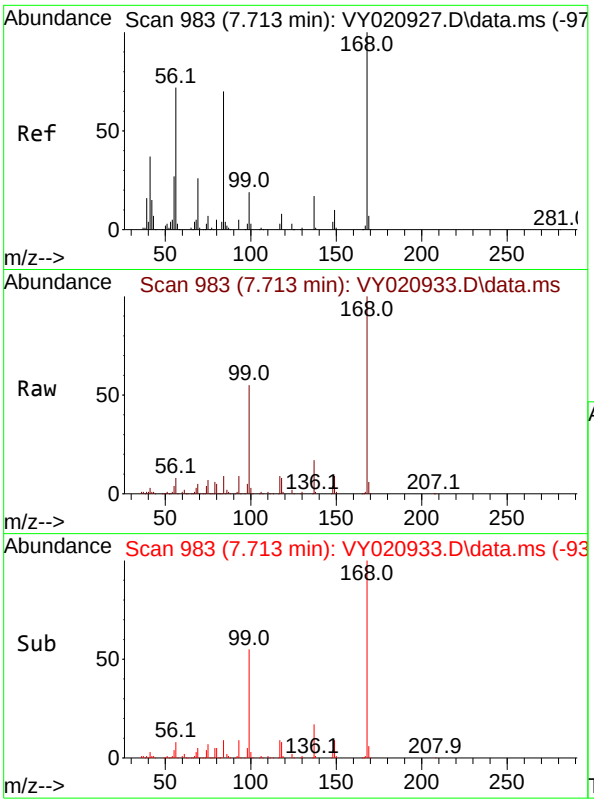




#30
Chloroform
Concen: 4.964 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 83 Resp: 21395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 59.9 | 53.0 | 79.4 |






#31
Cyclohexane
Concen: 5.756 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

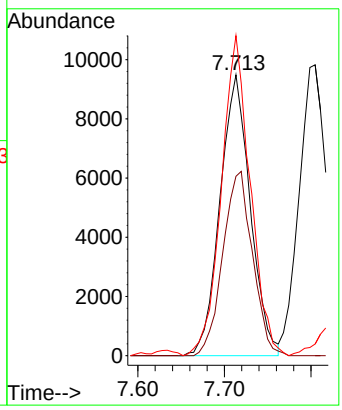
Tgt Ion: 56 Resp: 2303

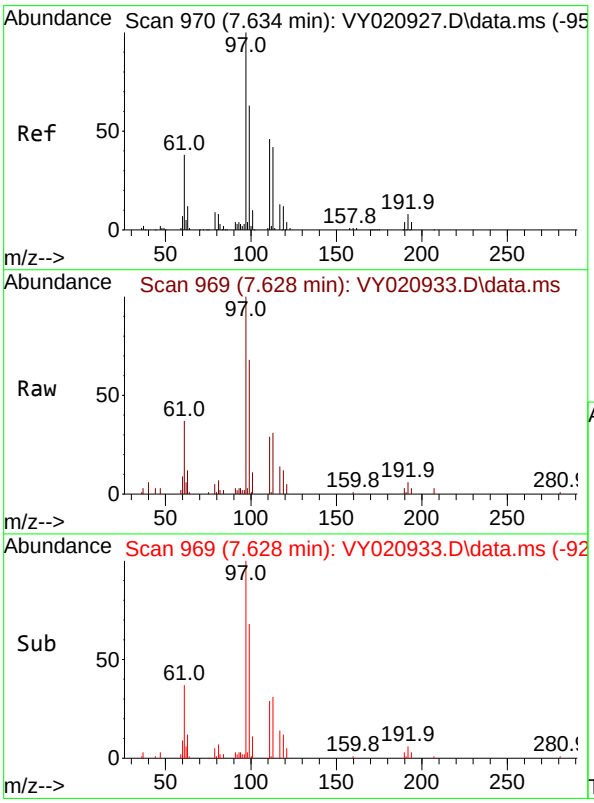
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 63.9 | 28.7 | 43.1 |
| 84 | 112.9 | 77.4 | 116.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

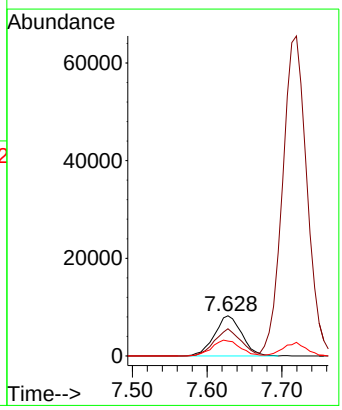


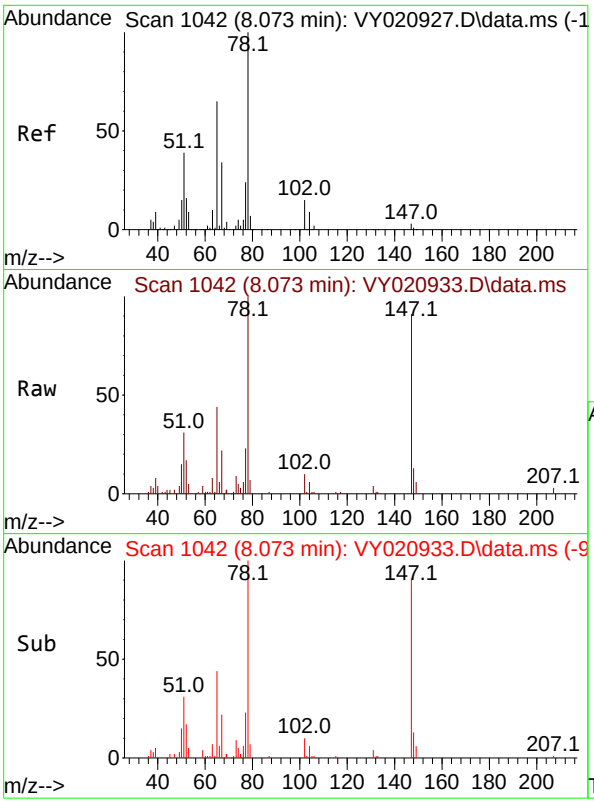




#32
1,1,1-Trichloroethane
Concen: 4.973 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 97 Resp: 20789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.1 | 51.7 | 77.5 |
| 61 | 40.7 | 30.8 | 46.2 |






#33
1,2-Dichloroethane-d4
Concen: 4.737 ug/l
RT: 8.073 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

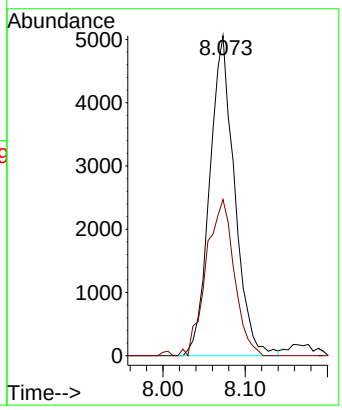
Tgt Ion: 65 Resp: 1064(

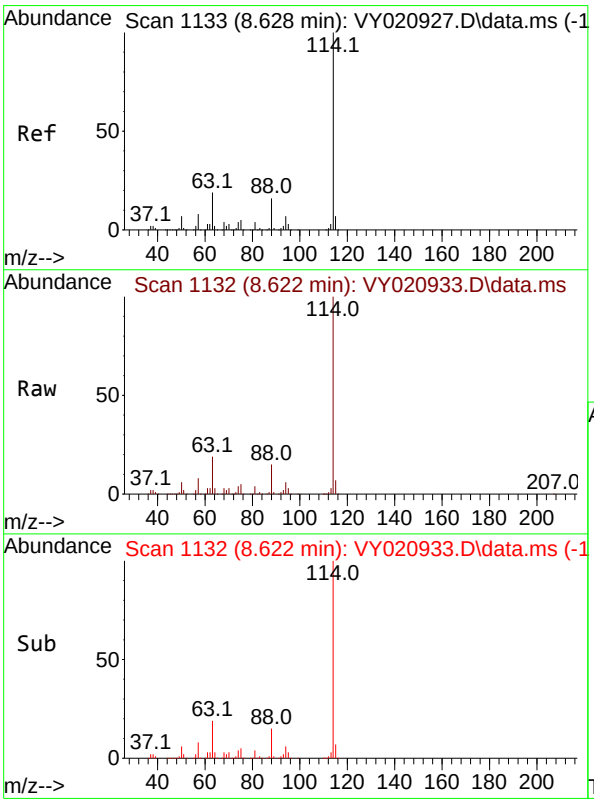
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.9 | 0.0 | 105.8 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

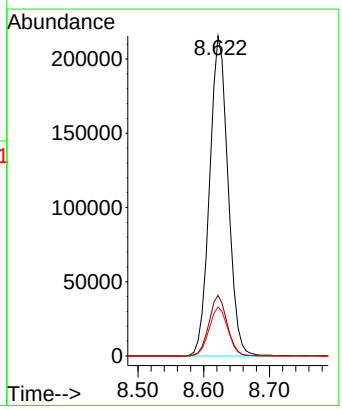


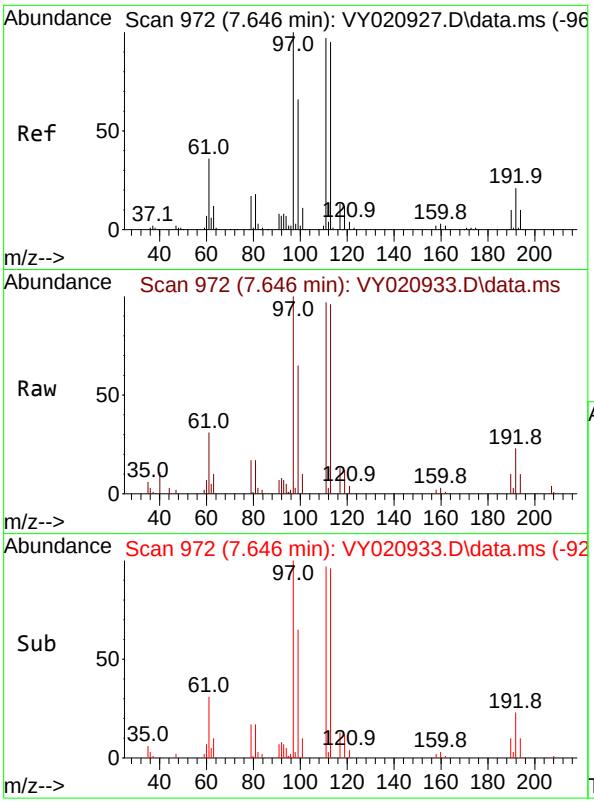




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:114 Resp: 419828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.9 | 0.0 | 38.4 |
| 88 | 15.3 | 0.0 | 31.6 |






#35
Dibromofluoromethane
Concen: 4.600 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

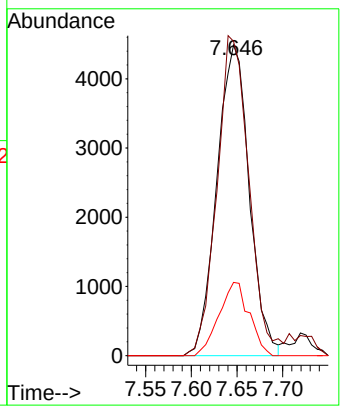
Tgt Ion:113 Resp: 1108

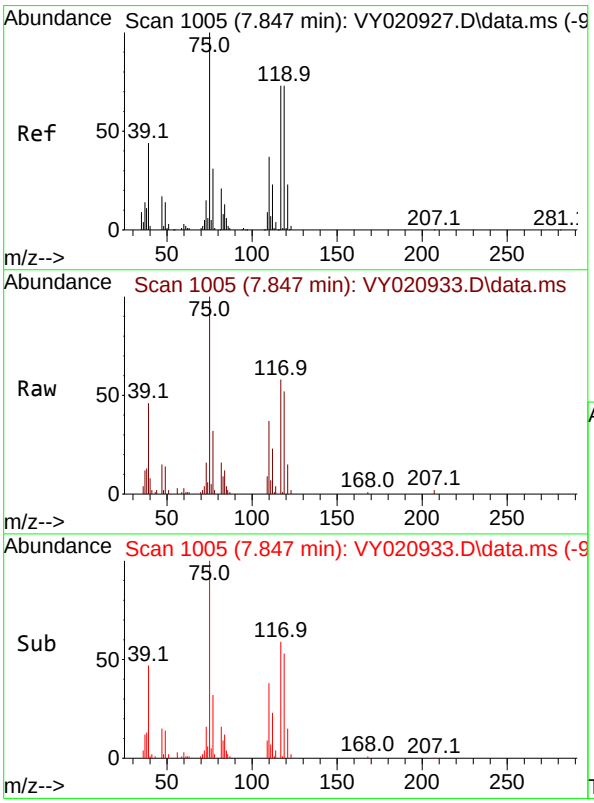
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.3 | 82.3 | 123.5 |
| 192 | 21.9 | 17.4 | 26.2 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

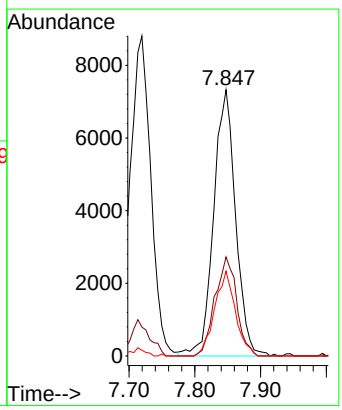


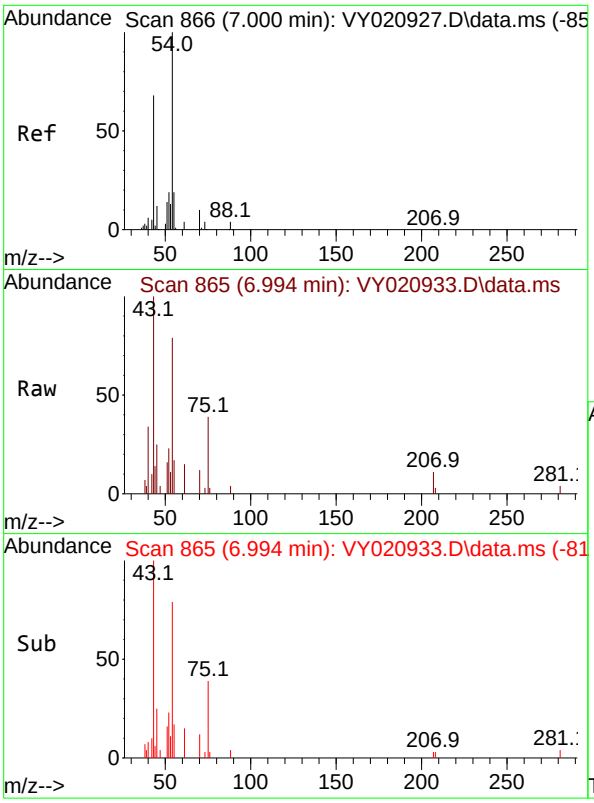




#36
1,1-Dichloropropene
Concen: 5.058 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 75 Resp: 17019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.7 | 18.5 | 55.5 |
| 77 | 30.2 | 25.0 | 37.4 |






#37
Ethyl Acetate
Concen: 4.391 ug/l
RT: 6.994 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

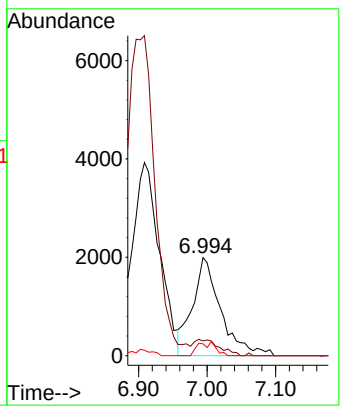
Tgt Ion: 43 Resp: 573

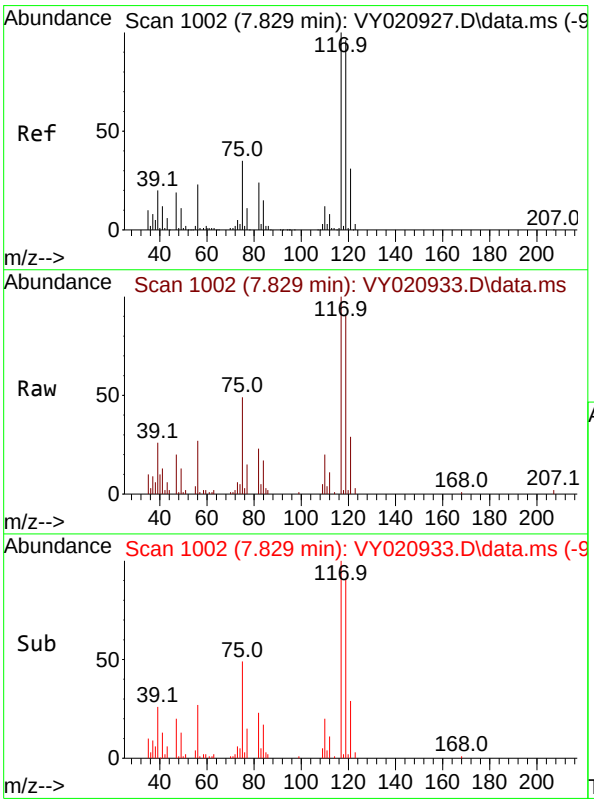
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.5 | 12.1 | 18.1 |
| 70 | 8.7 | 9.5 | 14.3 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

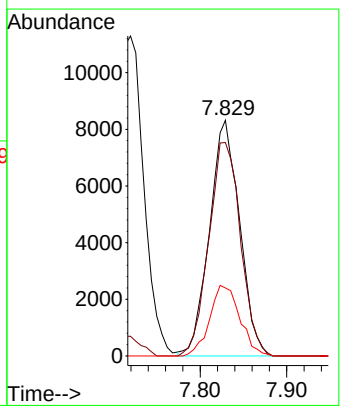


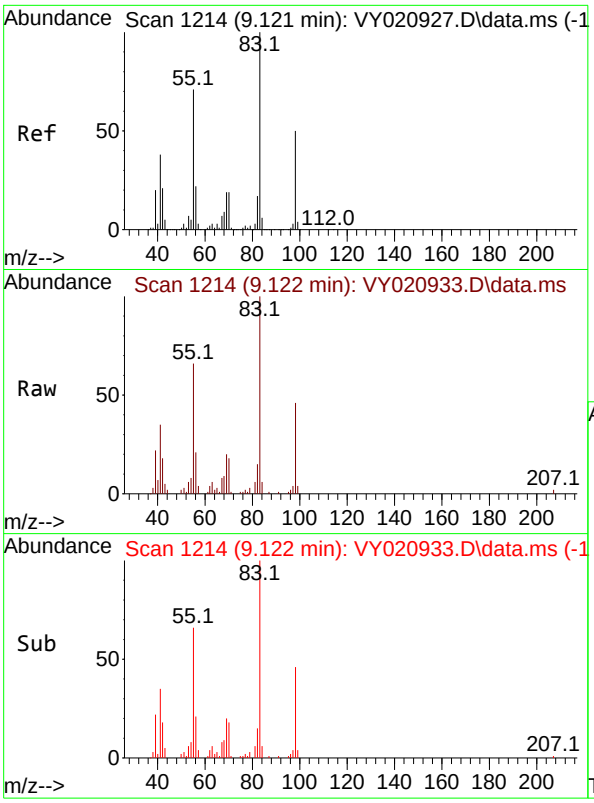




#38
Carbon Tetrachloride
Concen: 4.958 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:117 Resp: 20118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 90.6 | 76.5 | 114.7 |
| 121 | 28.9 | 25.0 | 37.4 |






#39
Methylcyclohexane
Concen: 4.830 ug/l
RT: 9.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

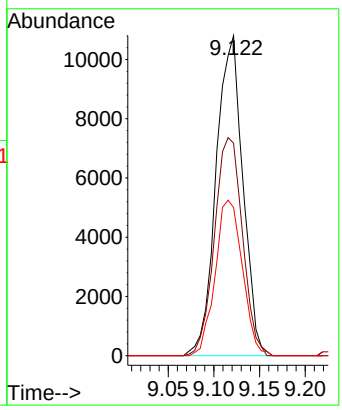
Tgt Ion: 83 Resp: 2200

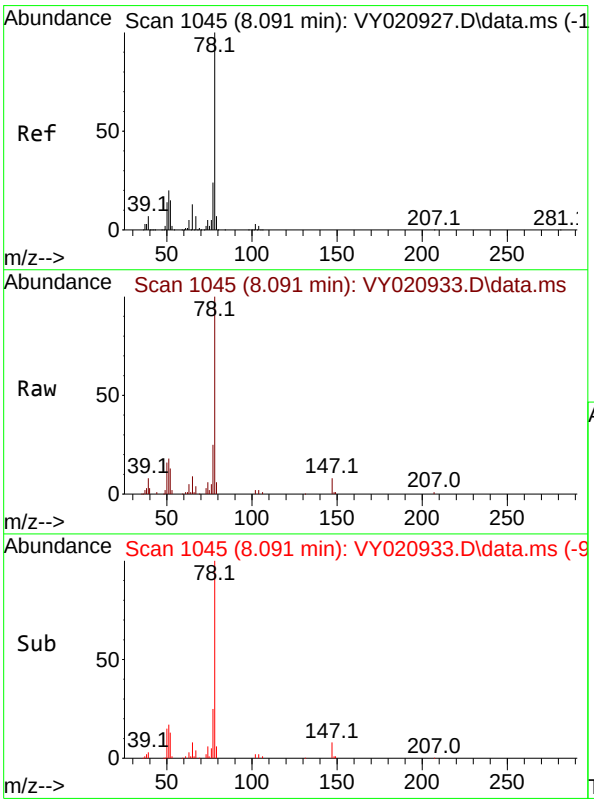
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 66.4 | 57.0 | 85.4 |
| 98 | 46.3 | 40.1 | 60.1 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

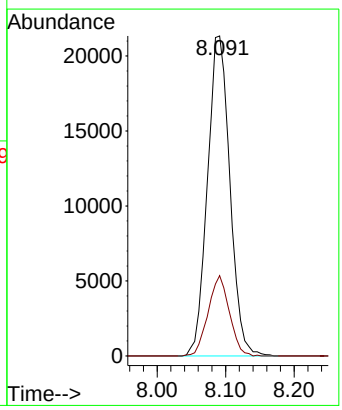


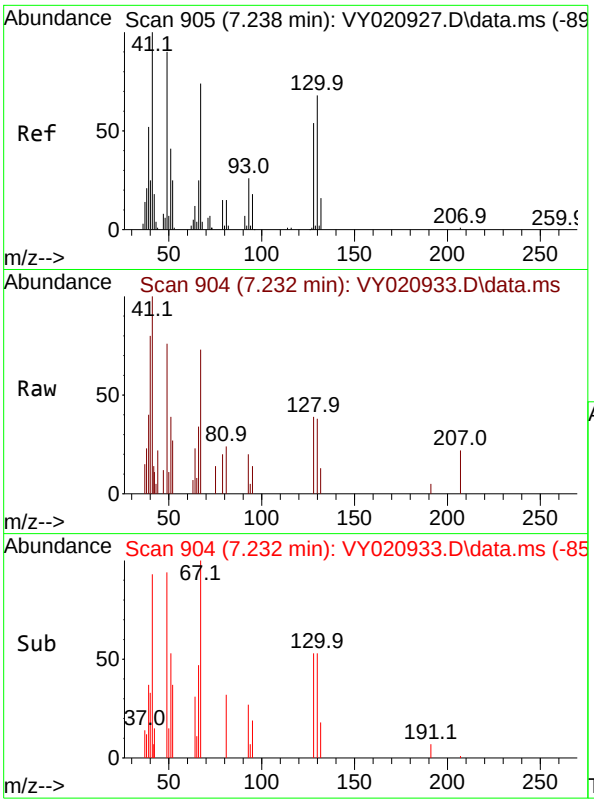




#40
Benzene
Concen: 4.915 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 78 Resp: 48520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.1 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 3.900 ug/l
RT: 7.232 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

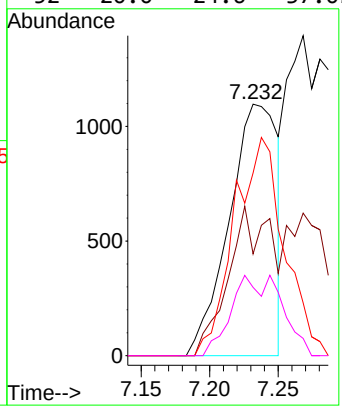
Tgt Ion: 41 Resp: 269

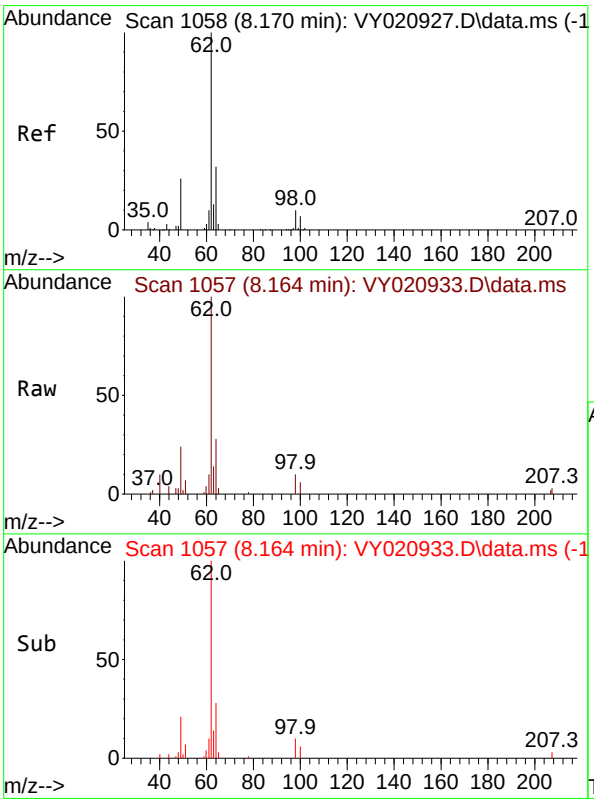
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 52.8 | 46.4 | 69.6 |
| 67 | 89.6 | 66.7 | 100.1 |
| 52 | 20.0 | 24.6 | 37.0# |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

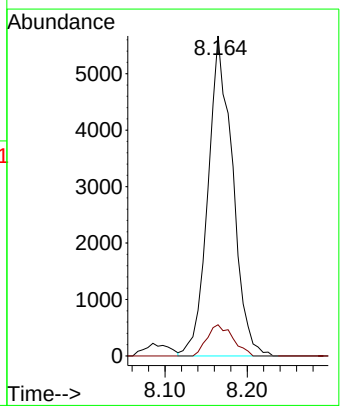


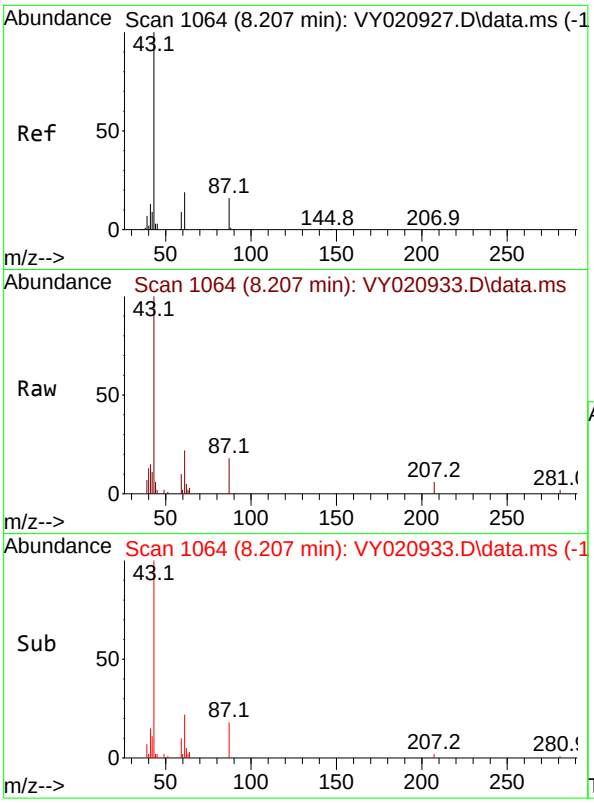




#42
1,2-Dichloroethane
Concen: 4.798 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 62 Resp: 11785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.2 | 0.0 | 19.8 |






#43
Isopropyl Acetate
Concen: 3.996 ug/l
RT: 8.207 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

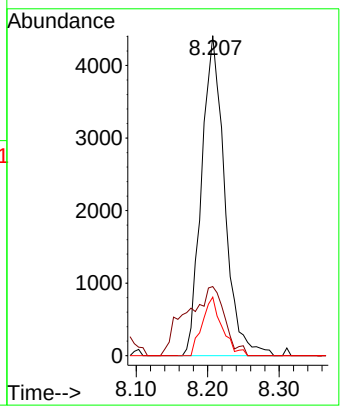
Tgt Ion: 43 Resp: 989

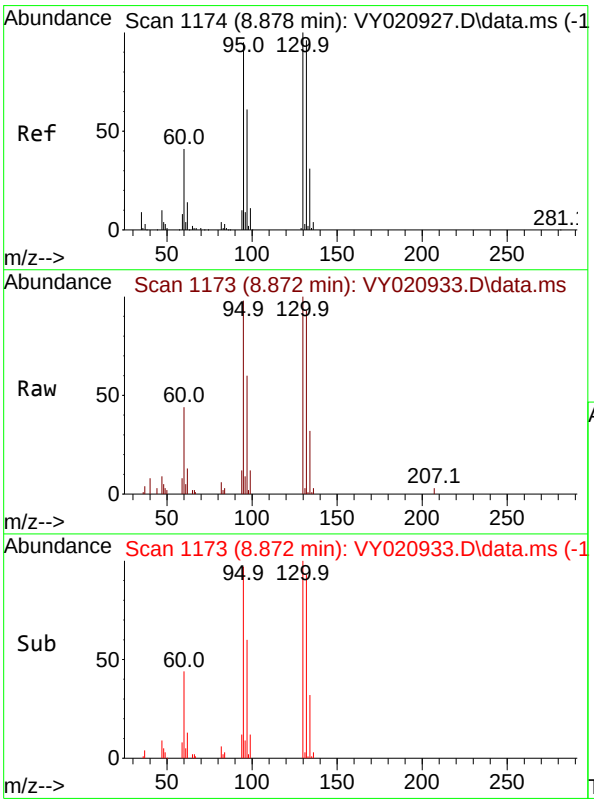
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 35.8 | 26.0 | 39.0 |
| 87 | 15.8 | 12.4 | 18.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

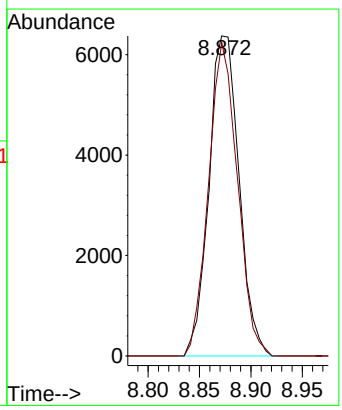


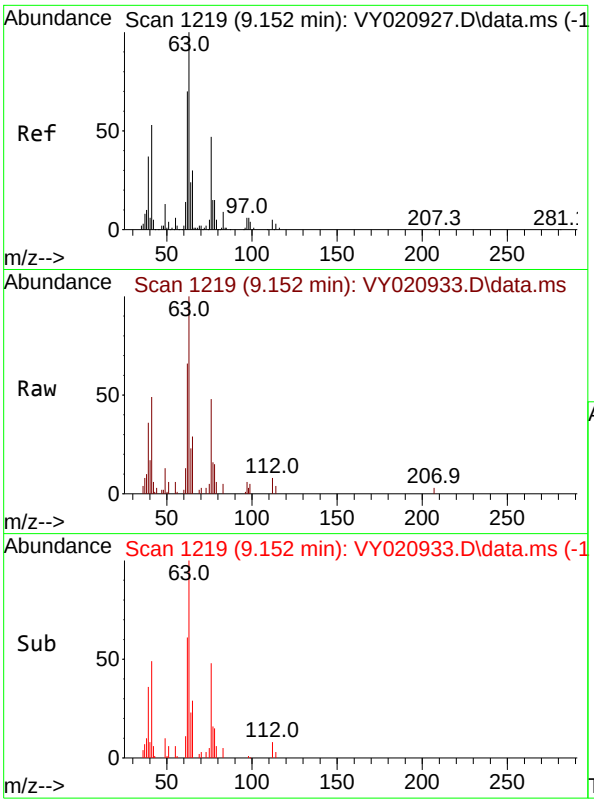




#44
Trichloroethene
Concen: 4.841 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:130 Resp: 12984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.0 | 0.0 | 189.4 |






#45
1,2-Dichloropropane
Concen: 4.741 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

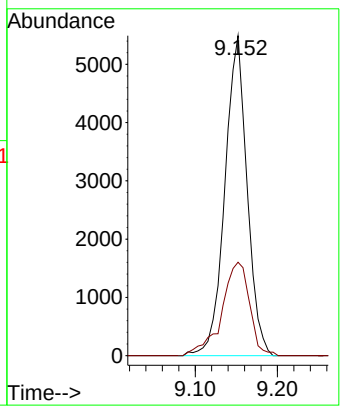
Tgt Ion: 63 Resp: 1033

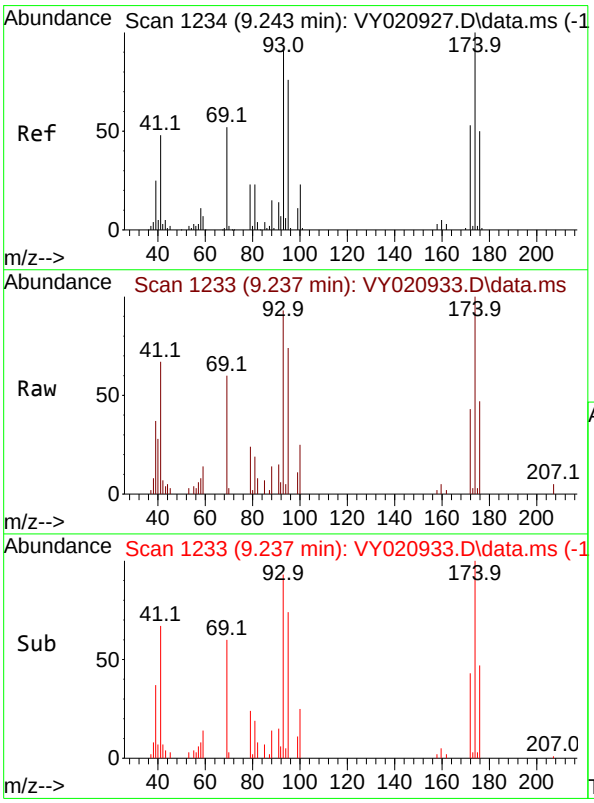
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.2 | 23.9 | 35.9 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

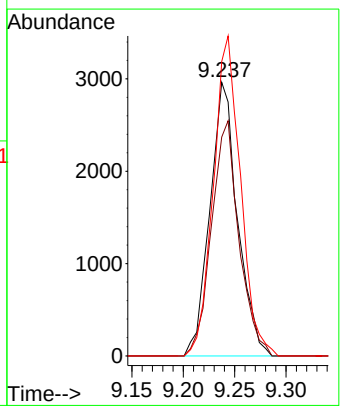


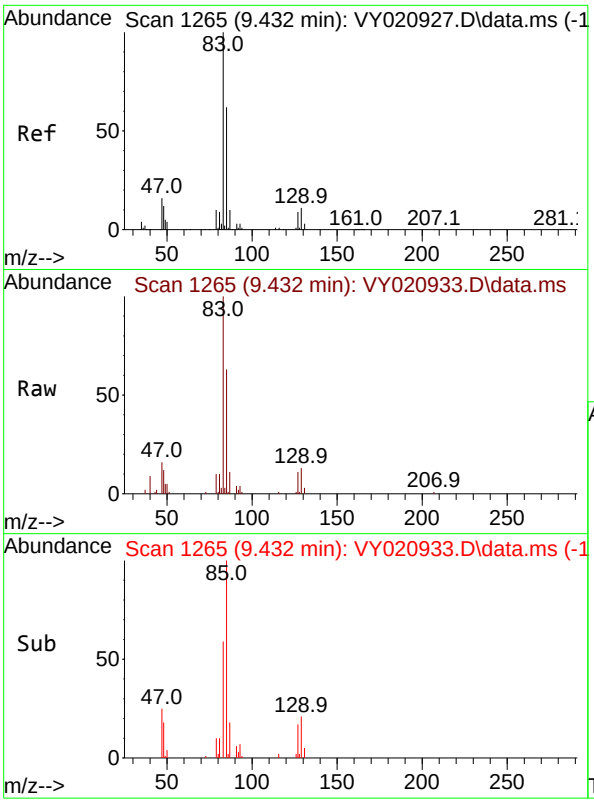




#46
Dibromomethane
Concen: 4.466 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 93 Resp: 5533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 85.5 | 66.2 | 99.2 |
| 174 | 115.0 | 87.0 | 130.4 |






#47
Bromodichloromethane
Concen: 4.721 ug/l
RT: 9.432 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

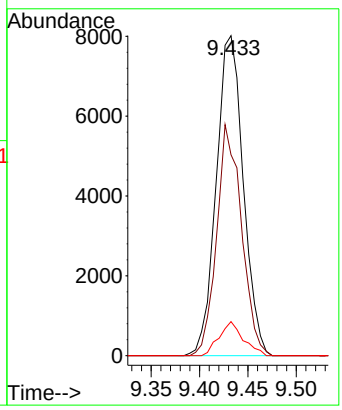
Tgt Ion: 83 Resp: 1556

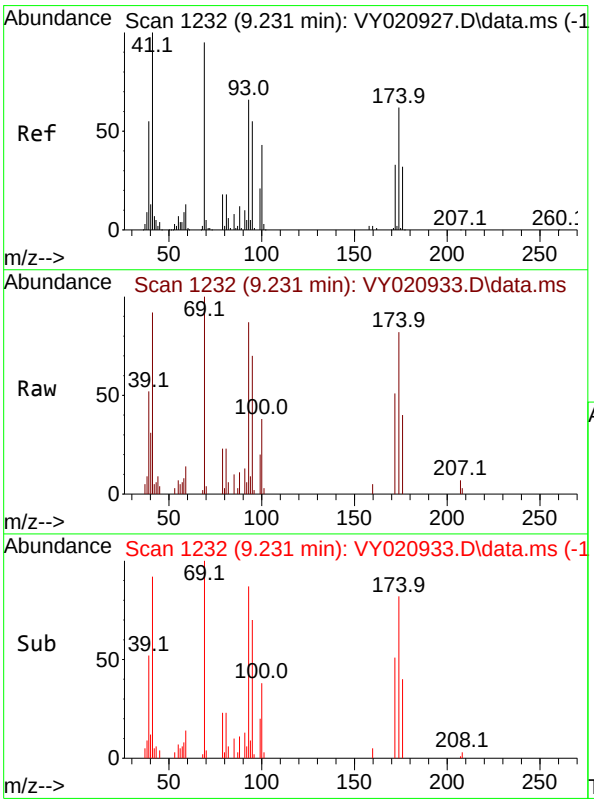
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.8 | 49.3 | 73.9 |
| 127 | 10.6 | 7.4 | 11.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

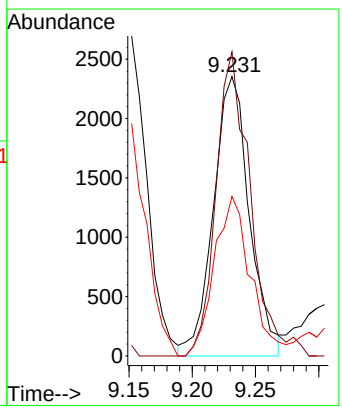


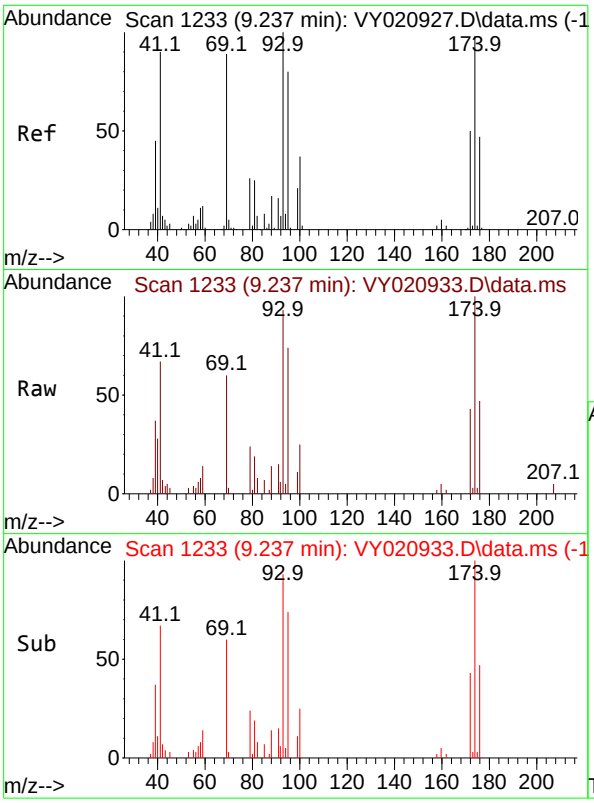




#48
Methyl methacrylate
Concen: 3.973 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 41 Resp: 4640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 104.1 | 77.0 | 115.4 |
| 39 | 57.7 | 41.1 | 61.7 |






#49
1,4-Dioxane
Concen: 85.374 ug/l
RT: 9.237 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

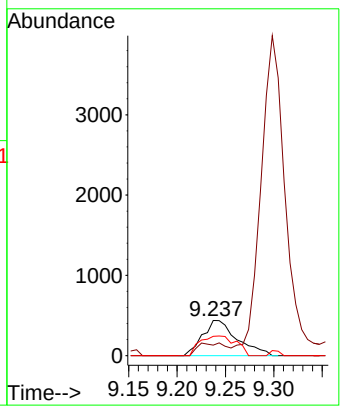
Tgt Ion: 88 Resp: 108

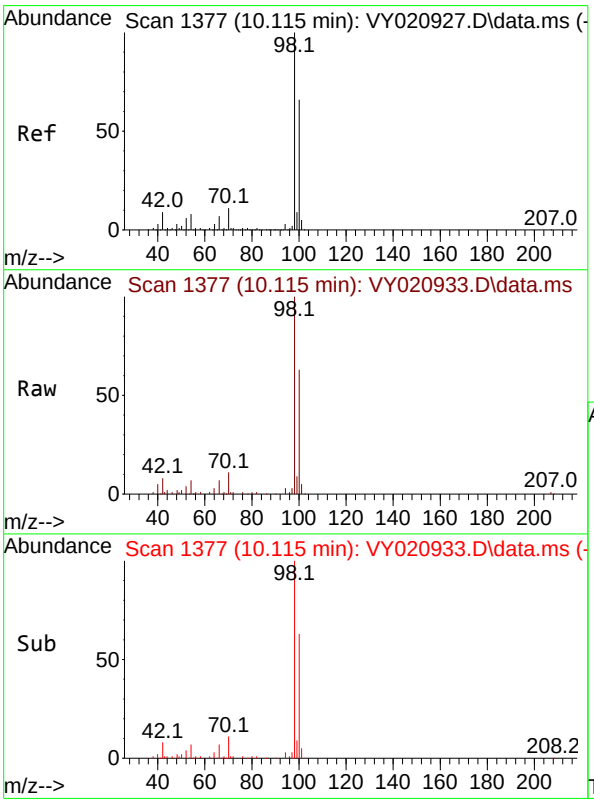
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.0 | 23.1 | 34.7 |
| 58 | 57.9 | 49.0 | 73.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

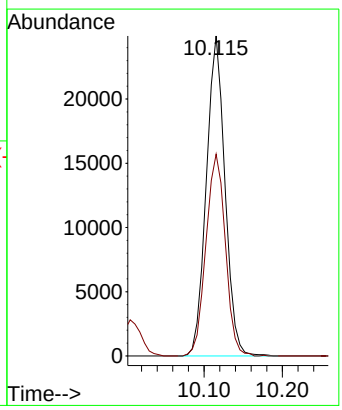


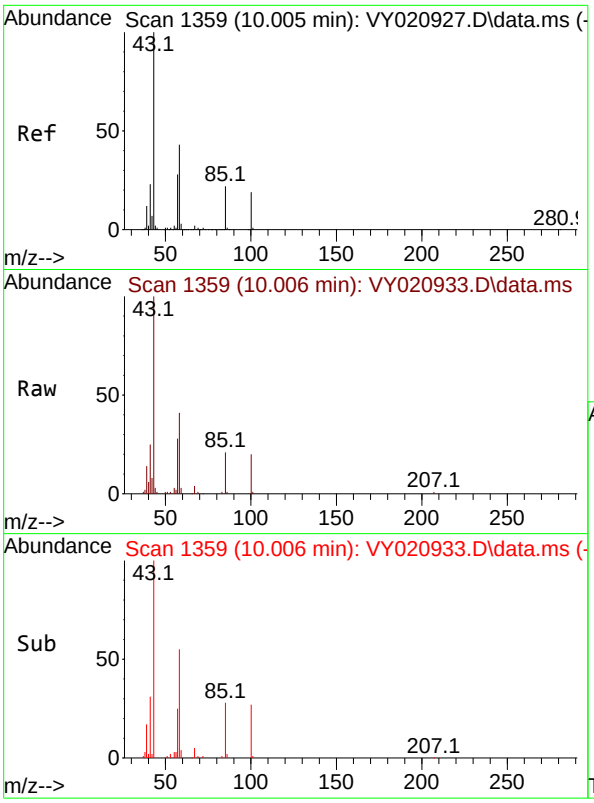




#50
Toluene-d8
Concen: 4.405 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 98 Resp: 41178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.6 | 52.3 | 78.5 |






#51
4-Methyl-2-Pentanone
Concen: 20.253 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

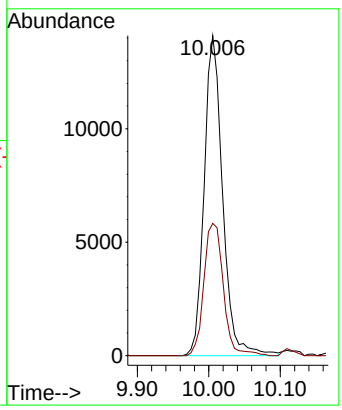
Tgt Ion: 43 Resp: 2528

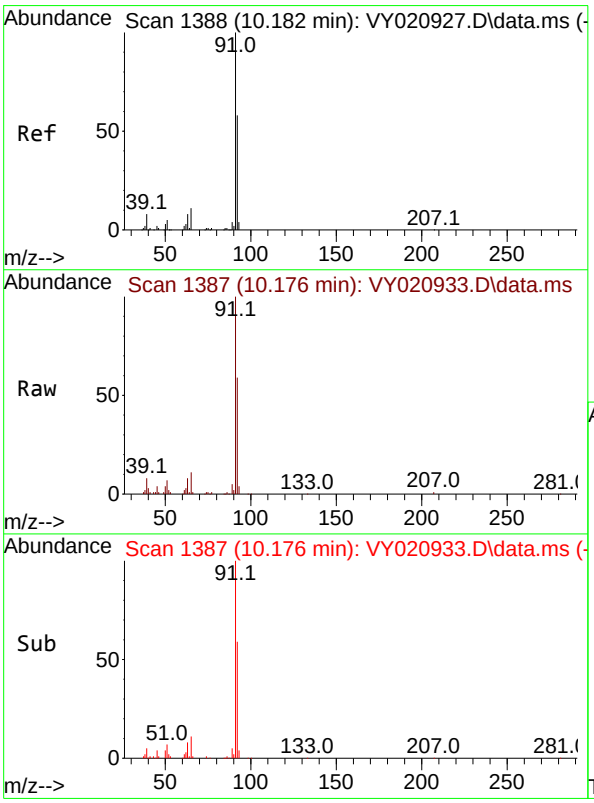
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.6 | 33.7 | 50.5 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

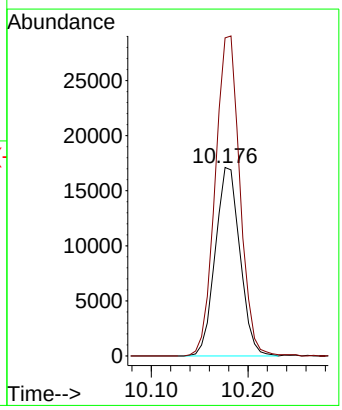


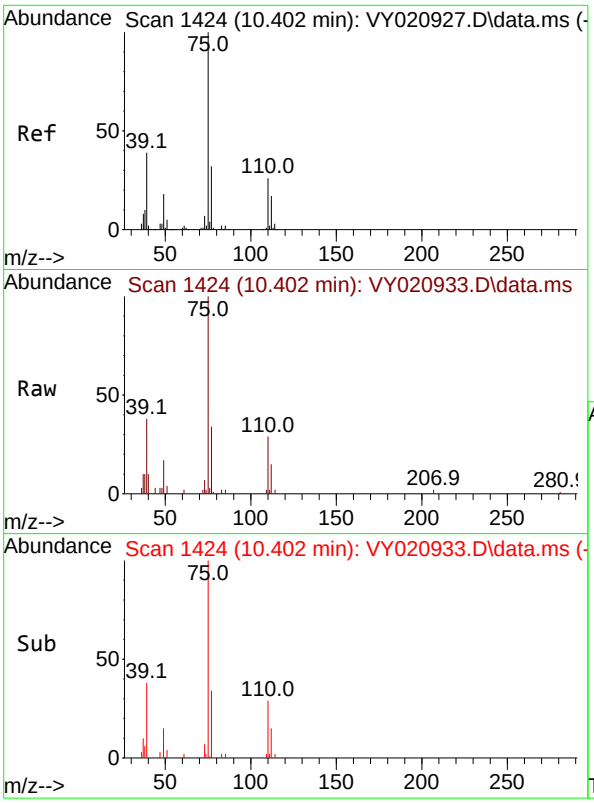




#52
Toluene
Concen: 4.772 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 92 Resp: 30300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.0 | 137.3 | 205.9 |






#53
t-1,3-Dichloropropene
Concen: 4.336 ug/l
RT: 10.402 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

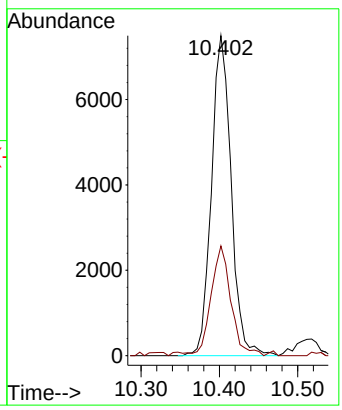
Tgt Ion: 75 Resp: 1310

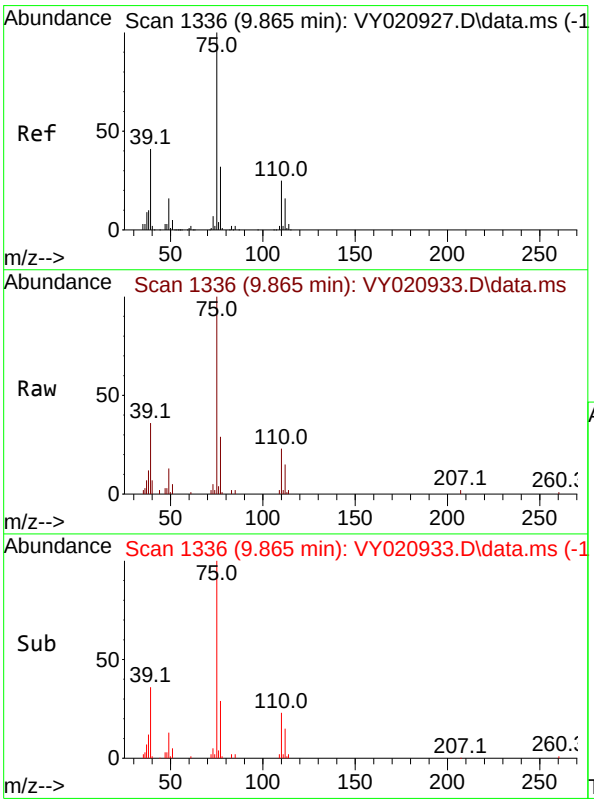
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 34.3 | 25.4 | 38.2 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

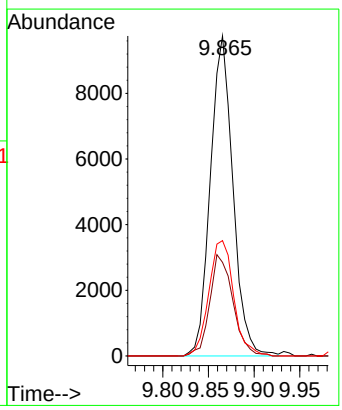


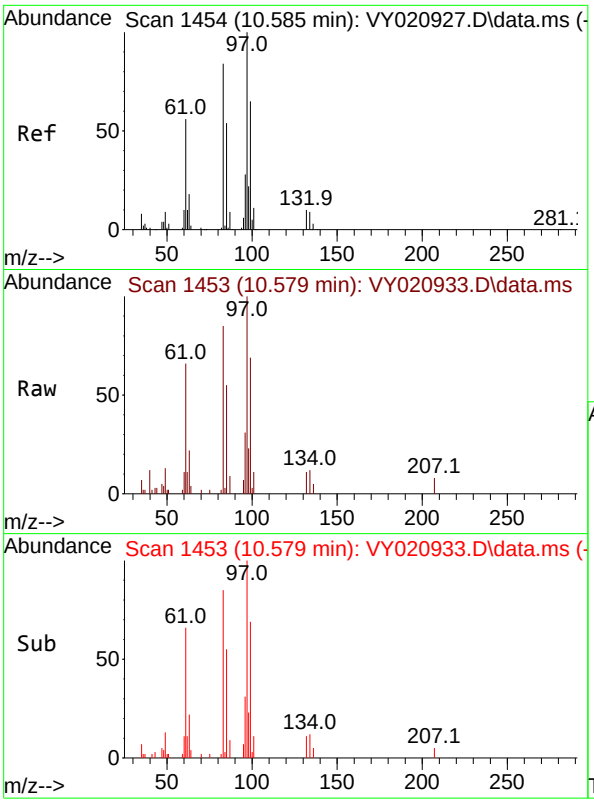




#54
cis-1,3-Dichloropropene
Concen: 4.639 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 75 Resp: 16741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.2 | 25.7 | 38.5 |
| 39 | 36.1 | 32.8 | 49.2 |

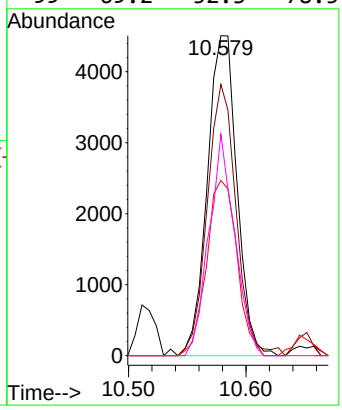





#55
1,1,2-Trichloroethane
Concen: 4.727 ug/l
RT: 10.579 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 97 Resp: 791

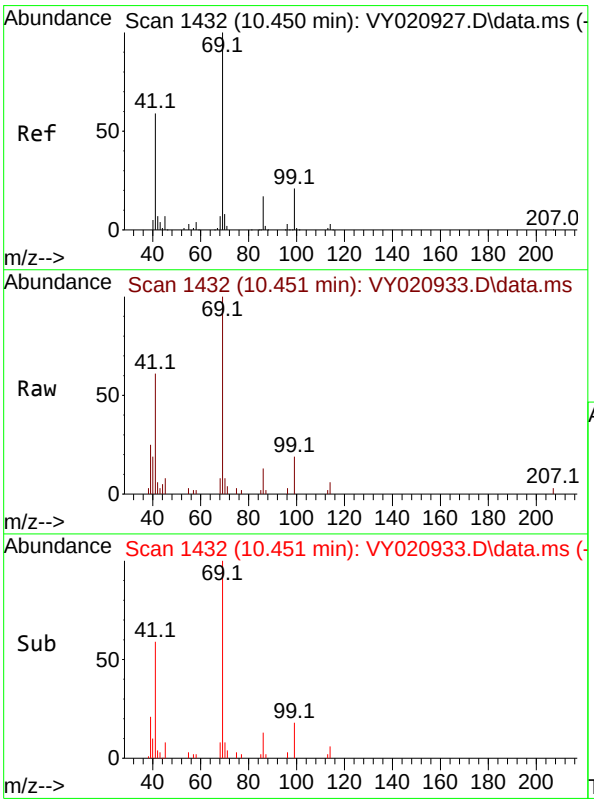
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.7 | 67.0 | 100.6 |
| 85 | 54.7 | 43.1 | 64.7 |
| 99 | 69.2 | 52.3 | 78.5 |




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

**Manual Integrations**
**APPROVED**

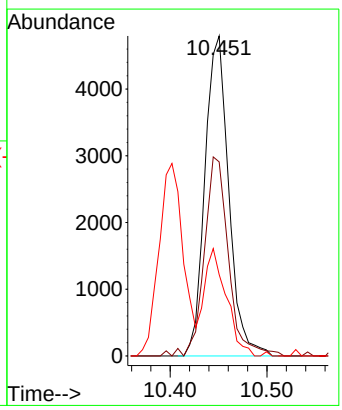
Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

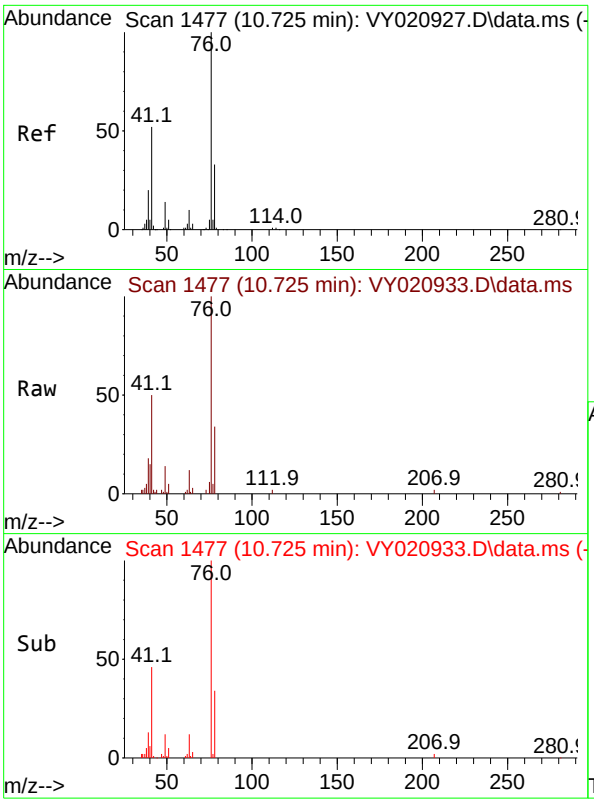



#56
Ethyl methacrylate
Concen: 3.743 ug/l
RT: 10.451 min Scan# 1432
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 69 Resp: 8214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 63.0 | 46.6 | 70.0 |
| 39 | 31.4 | 23.9 | 35.9 |






#57
1,3-Dichloropropane
Concen: 4.601 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

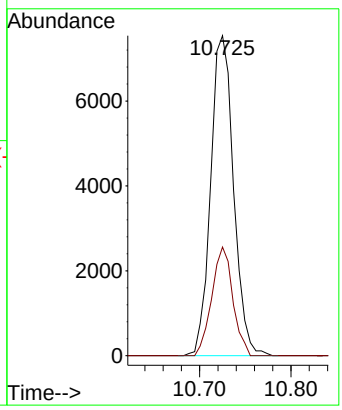
Tgt Ion: 76 Resp: 1309

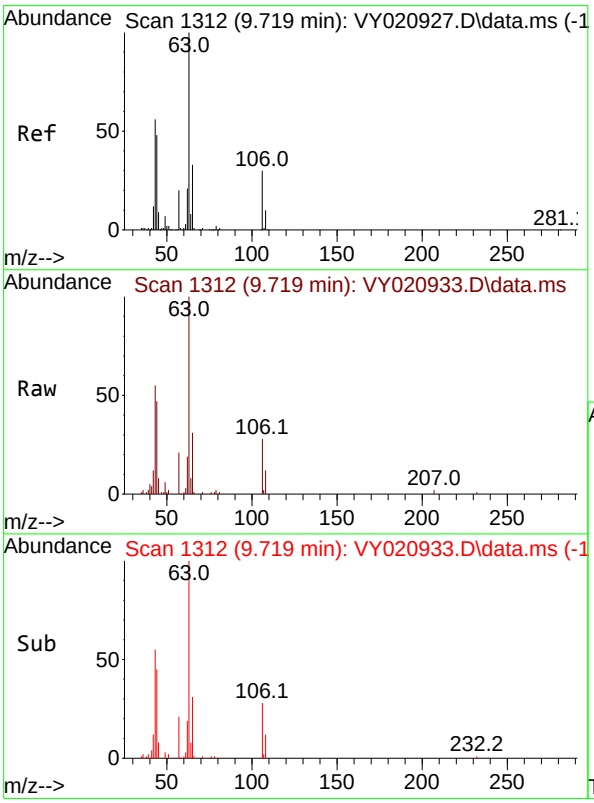
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.2 | 26.2 | 39.2 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

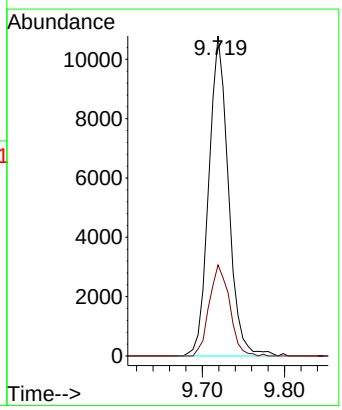


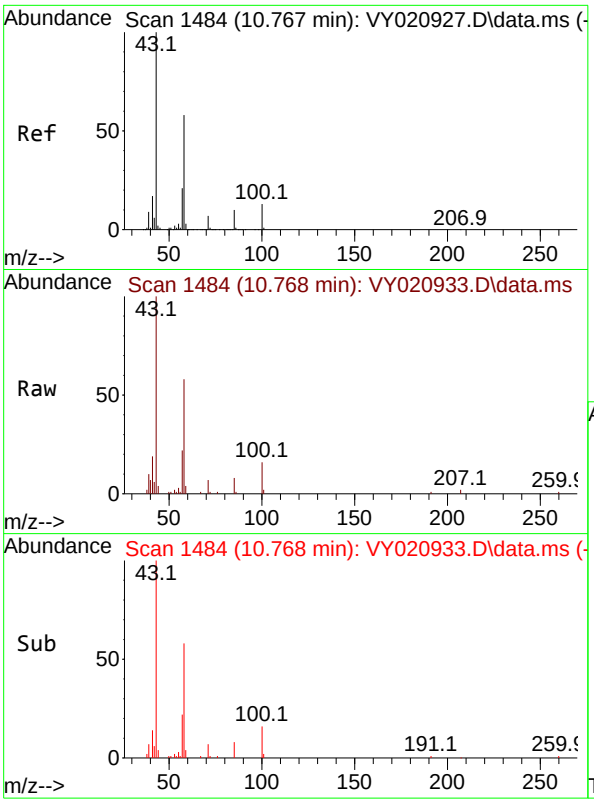




#58
2-Chloroethyl Vinyl ether
Concen: 17.967 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 63 Resp: 17897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.6 | 24.7 | 37.1 |






#59
2-Hexanone
Concen: 18.261 ug/l
RT: 10.768 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 43 Resp: 1465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.8 | 29.9 | 89.8 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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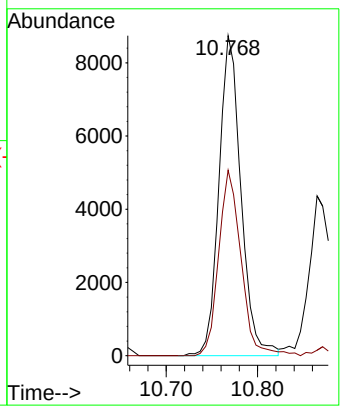
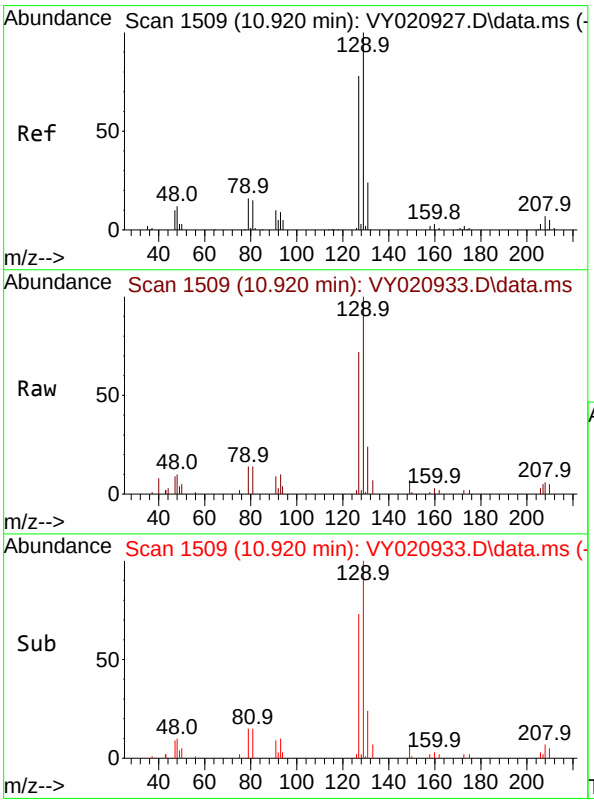
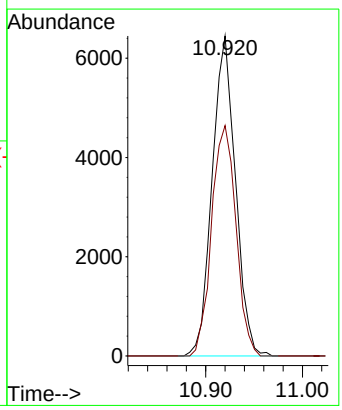


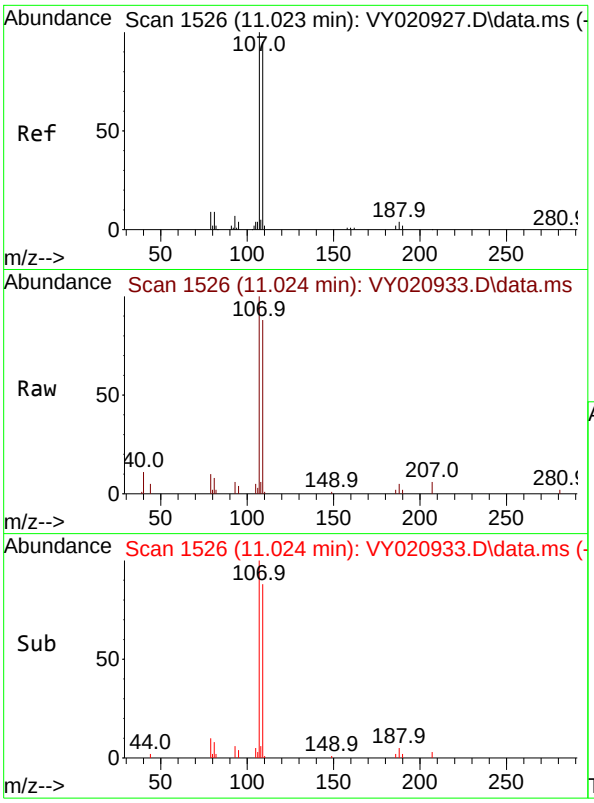




#60
Dibromochloromethane
Concen: 4.573 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:129 Resp: 10778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 75.3 | 39.2 | 117.6 |






#61
1,2-Dibromoethane
Concen: 4.569 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

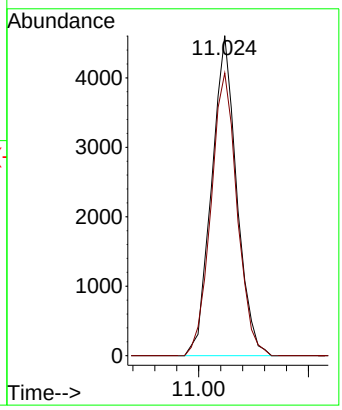
Tgt Ion:107 Resp: 731

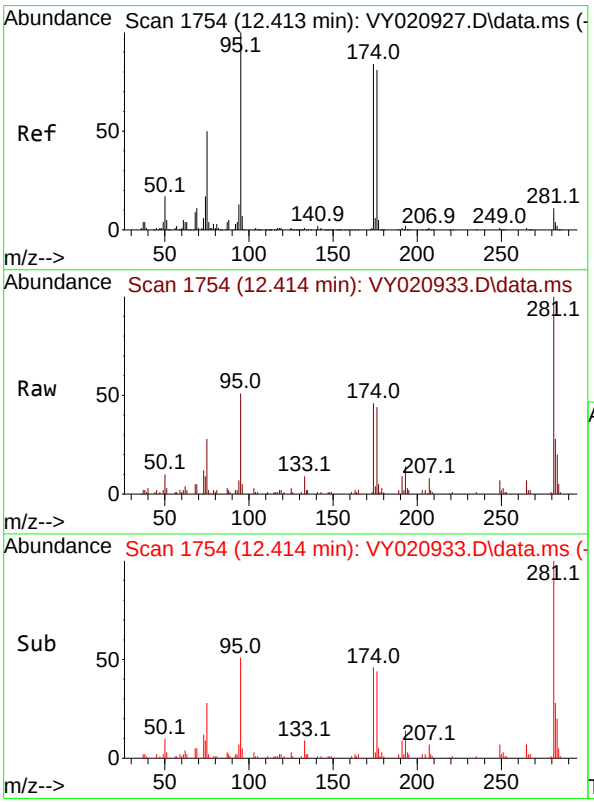
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.0 | 76.3 | 114.5 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

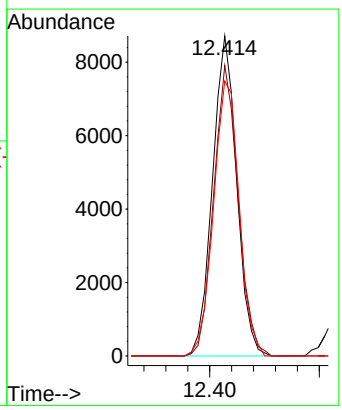


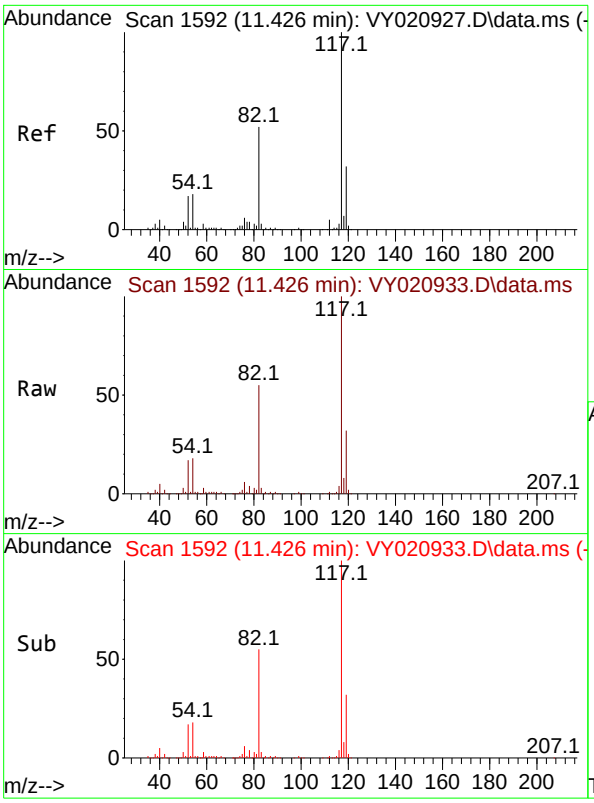




#62
4-Bromofluorobenzene
Concen: 4.300 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 95 Resp: 13378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 91.9 | 0.0 | 177.4 |
| 176 | 90.9 | 0.0 | 172.2 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

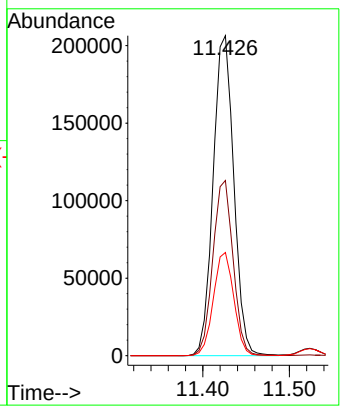
Tgt Ion:117 Resp: 34219

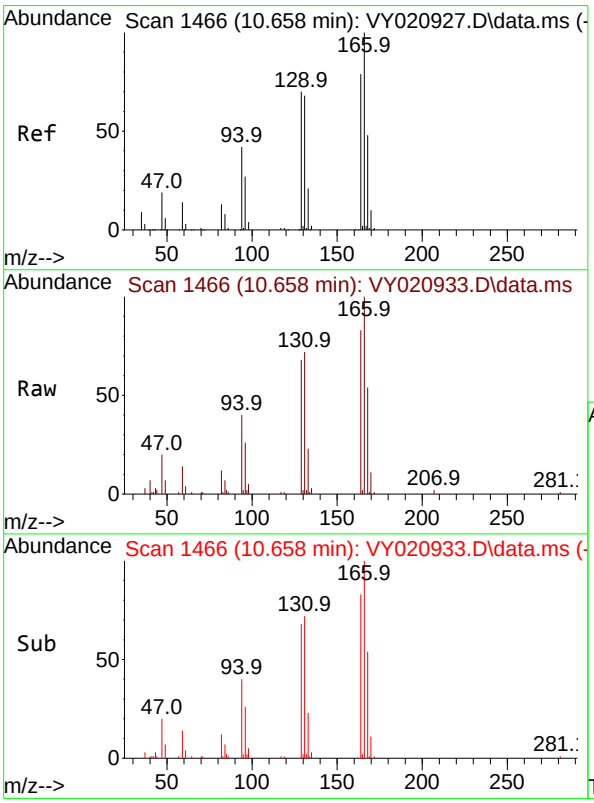
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.7 | 41.8 | 62.8 |
| 119 | 32.2 | 26.0 | 39.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

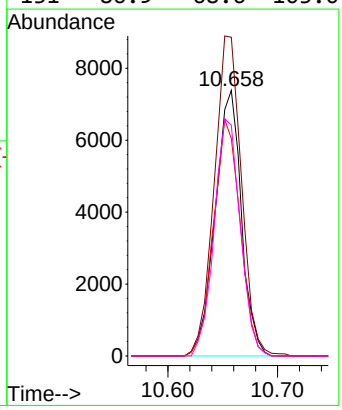


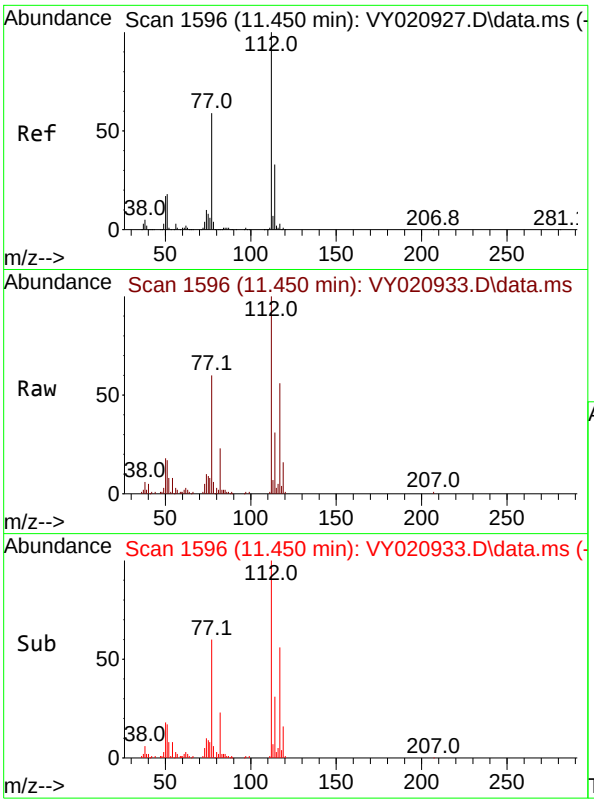




#64
Tetrachloroethene
Concen: 5.140 ug/l
RT: 10.658 min Scan# 1466
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:164 Resp: 12240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 120.0 | 101.0 | 151.6 |
| 129 | 81.9 | 70.8 | 106.2 |
| 131 | 86.9 | 68.6 | 103.0 |






#65
Chlorobenzene
Concen: 4.971 ug/l
RT: 11.450 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

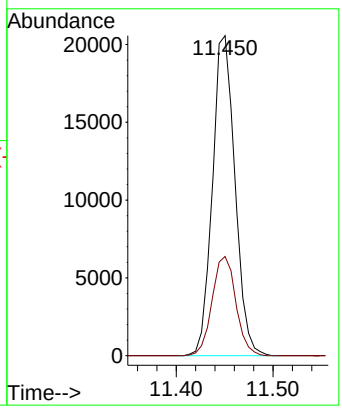
Tgt Ion:112 Resp: 3326

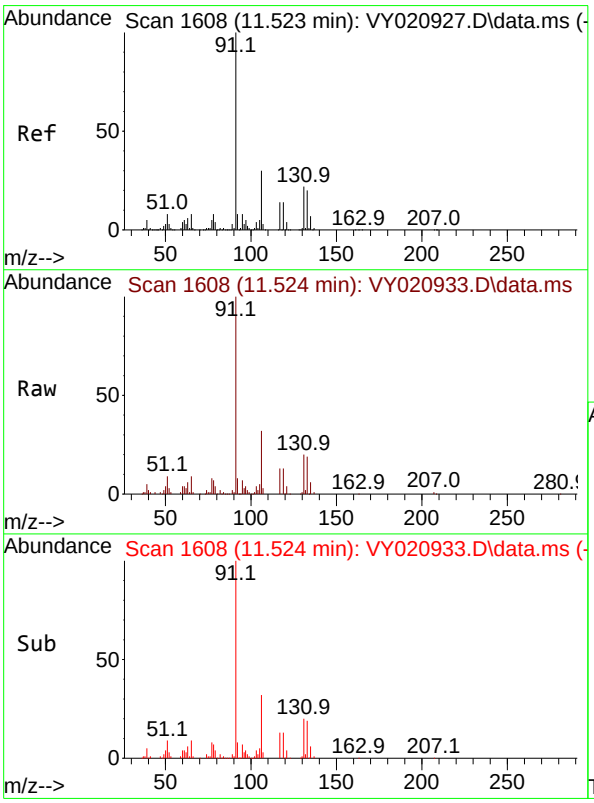
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.0 | 26.0 | 39.0 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

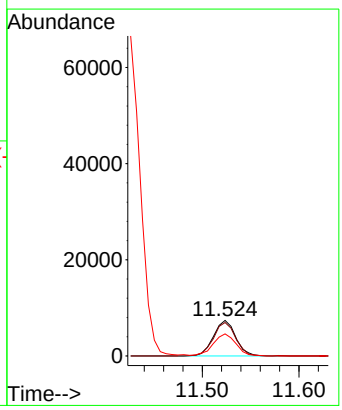


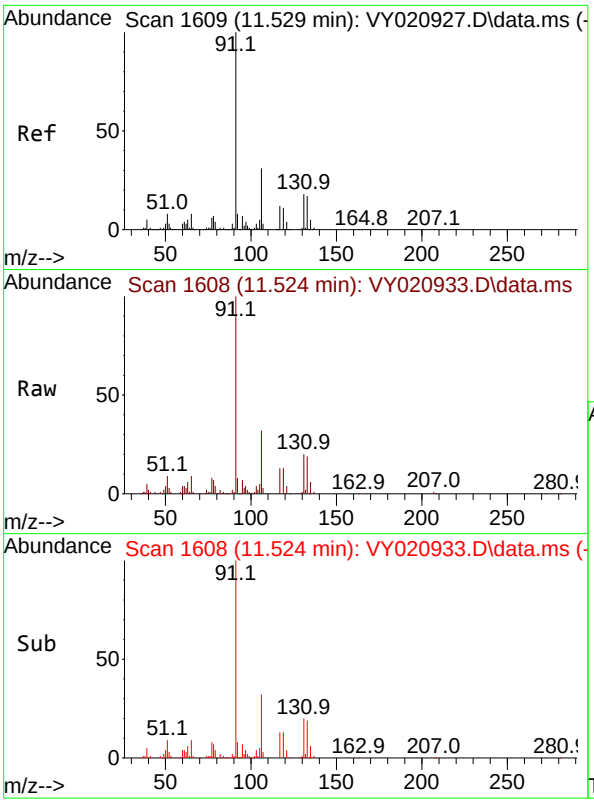




#66
1,1,1,2-Tetrachloroethane
Concen: 4.926 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:131 Resp: 11714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.9 | 47.5 | 142.6 |
| 119 | 64.1 | 31.2 | 93.6 |






#67
Ethyl Benzene
Concen: 4.836 ug/l
RT: 11.524 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

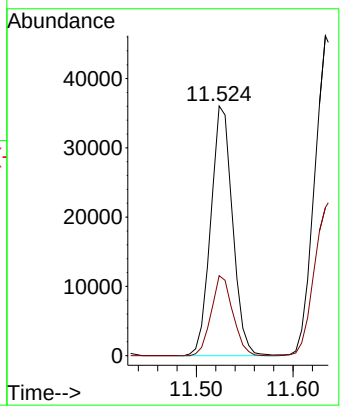
Tgt Ion: 91 Resp: 5647

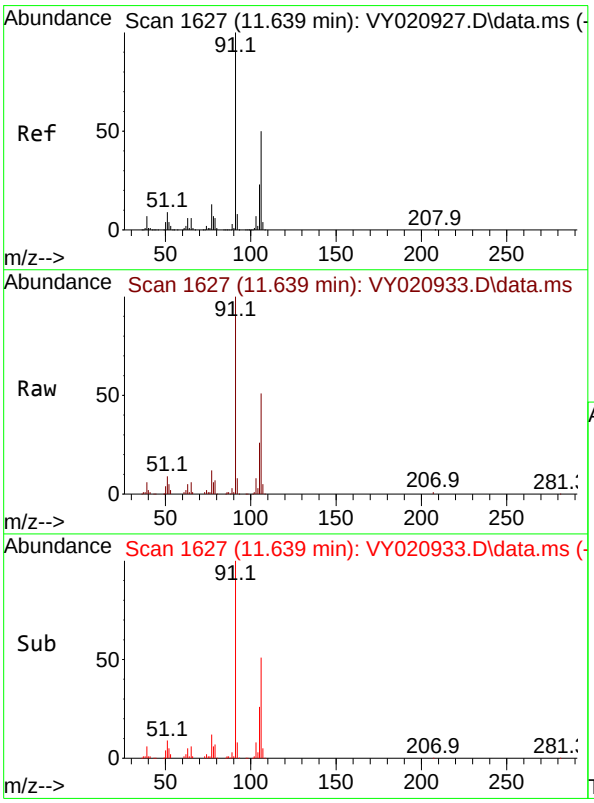
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.0 | 25.2 | 37.8 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

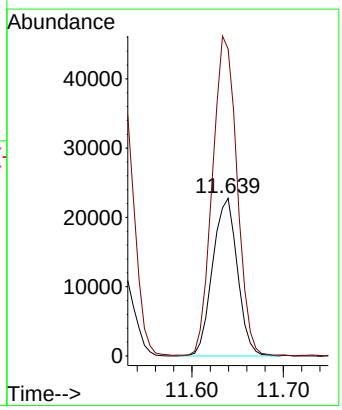


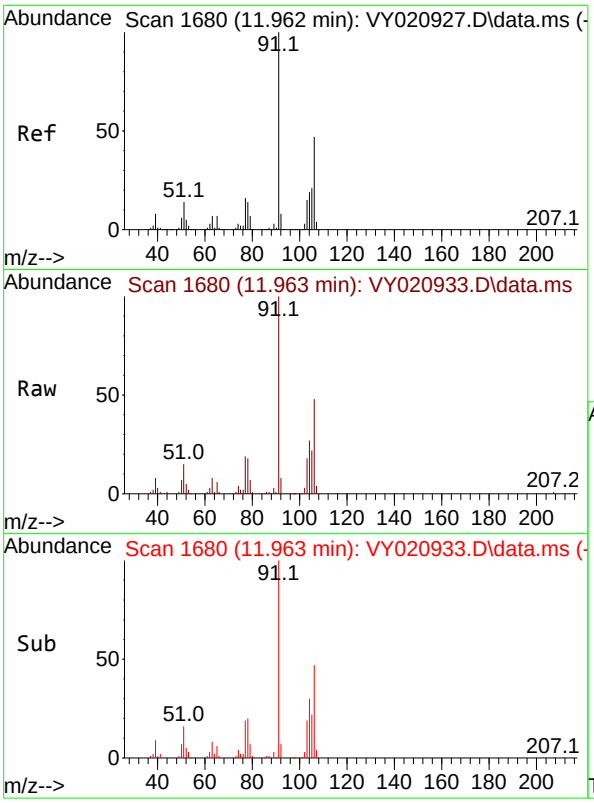




#68
m/p-Xylenes
Concen: 9.597 ug/l
RT: 11.639 min Scan# 1627
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:106 Resp: 42909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 201.8 | 159.5 | 239.3 |






#69
o-Xylene
Concen: 4.773 ug/l
RT: 11.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

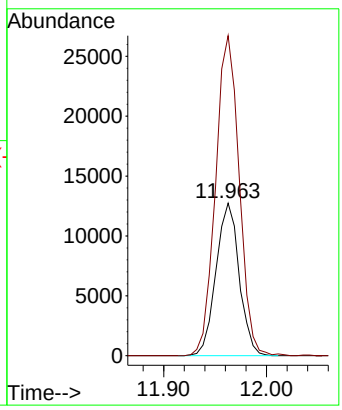
Tgt Ion:106 Resp: 1993

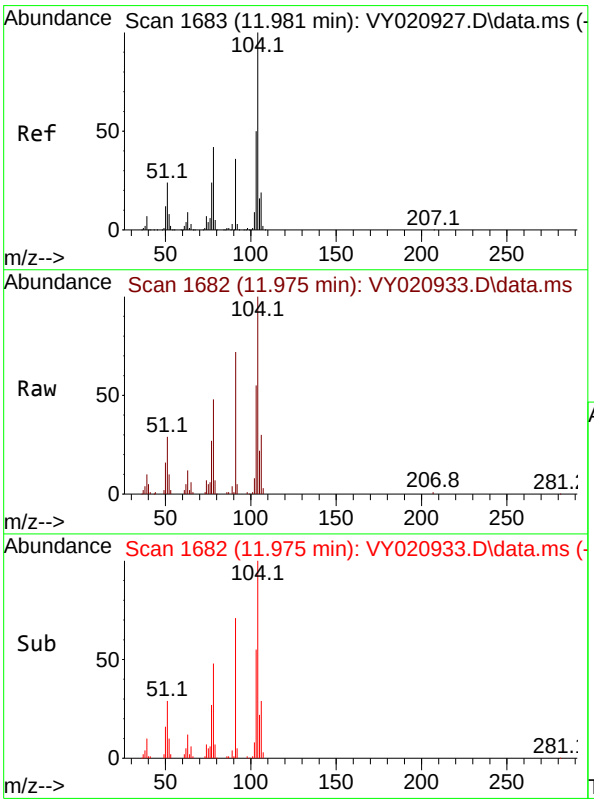
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 214.1 | 105.3 | 315.9 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

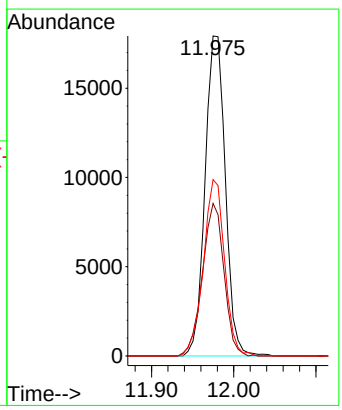


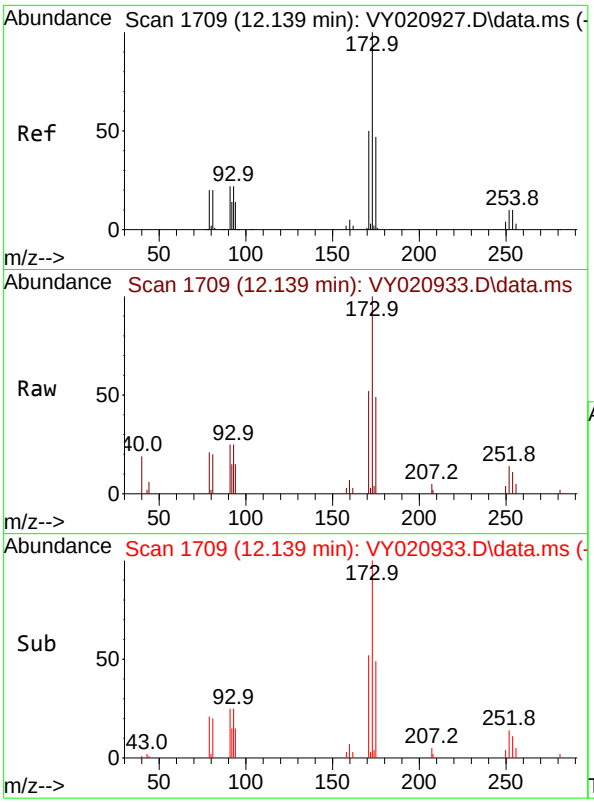




#70
Styrene
Concen: 4.494 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:104 Resp: 30761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.6 | 38.5 | 57.7 |
| 103 | 57.5 | 43.4 | 65.2 |






#71
Bromoform
Concen: 4.523 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

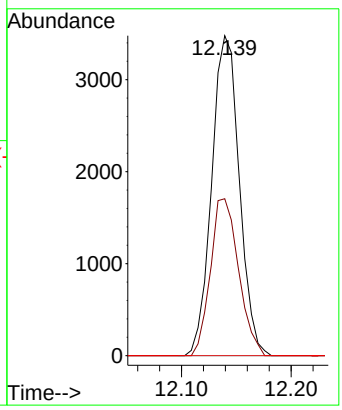
Tgt Ion:173 Resp: 609

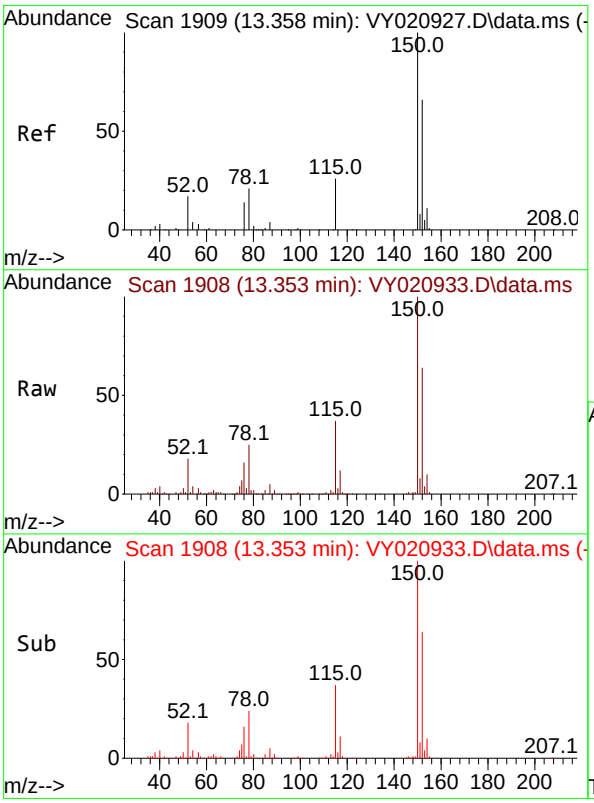
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 50.0 | 24.3 | 73.0 |
| 254 | 0.0 | 0.1 | 0.1# |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

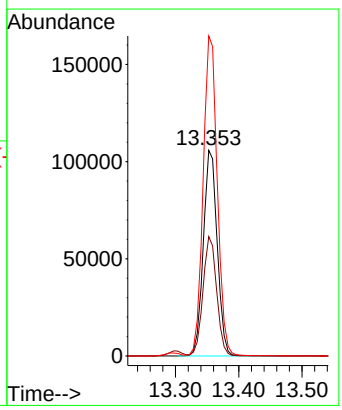


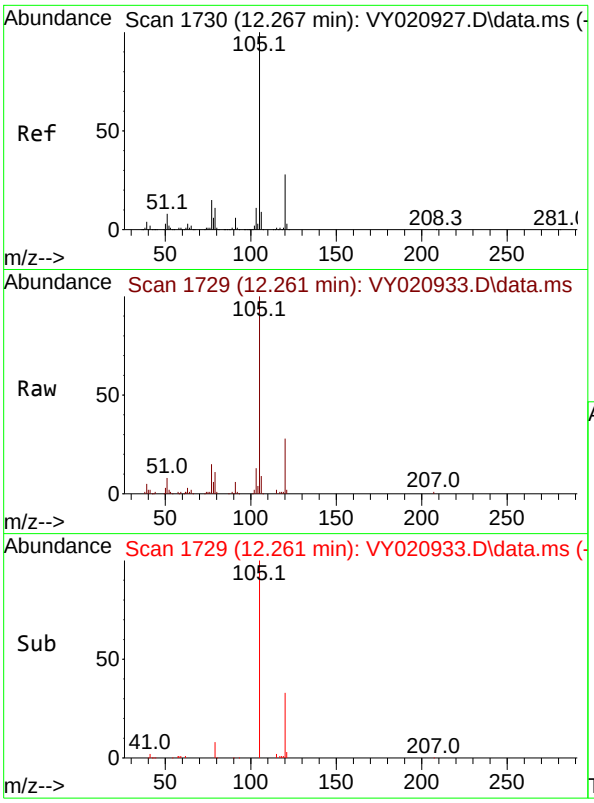




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:152 Resp: 161896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.1 | 29.0 | 87.0 |
| 150 | 157.7 | 0.0 | 347.6 |






#73
Isopropylbenzene
Concen: 4.928 ug/l
RT: 12.261 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

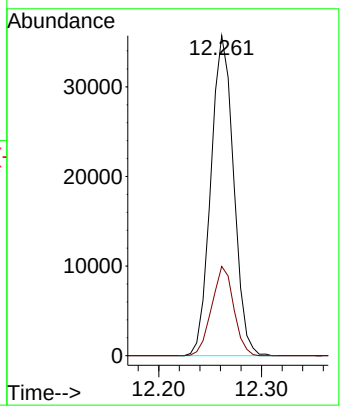
Tgt Ion:105 Resp: 5494

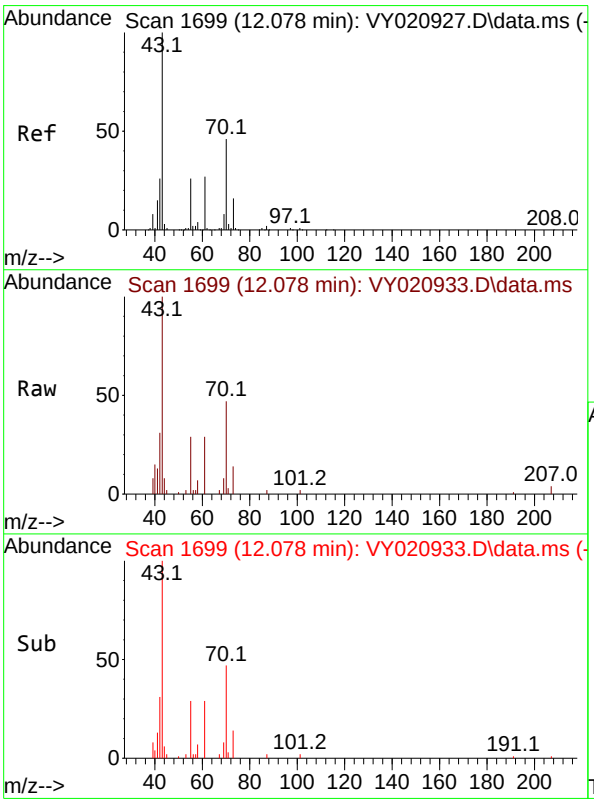
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.0 | 13.4 | 40.1 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

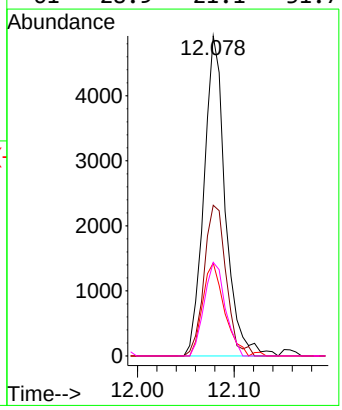


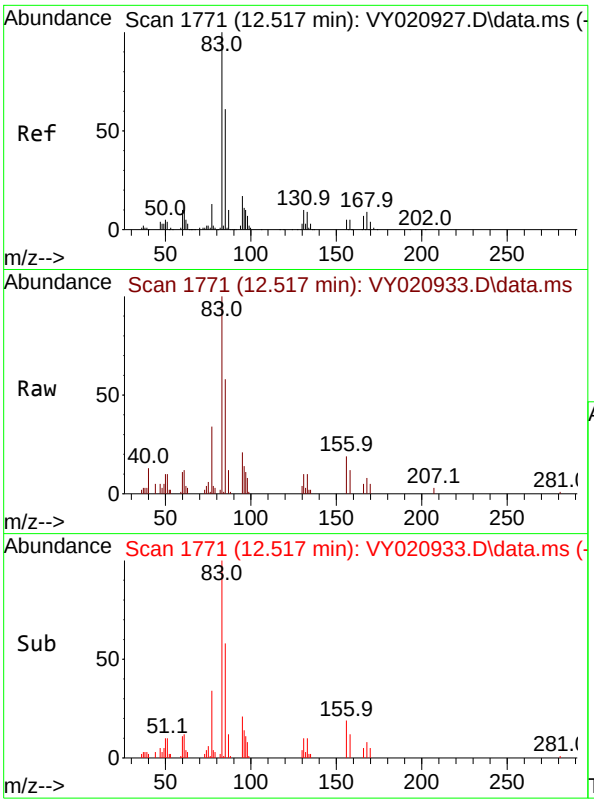




#74
N-amyl acetate
Concen: 3.814 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 43 Resp: 7568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 48.6 | 38.7 | 58.1 |
| 55 | 30.0 | 21.6 | 32.4 |
| 61 | 28.9 | 21.1 | 31.7 |






#75
1,1,2,2-Tetrachloroethane
Concen: 4.524 ug/l
RT: 12.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 83 Resp: 784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.5 | 5.5 | 16.7 |
| 85 | 62.7 | 31.8 | 95.4 |

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

**Manual Integrations**
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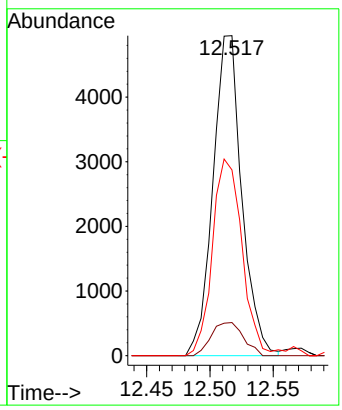
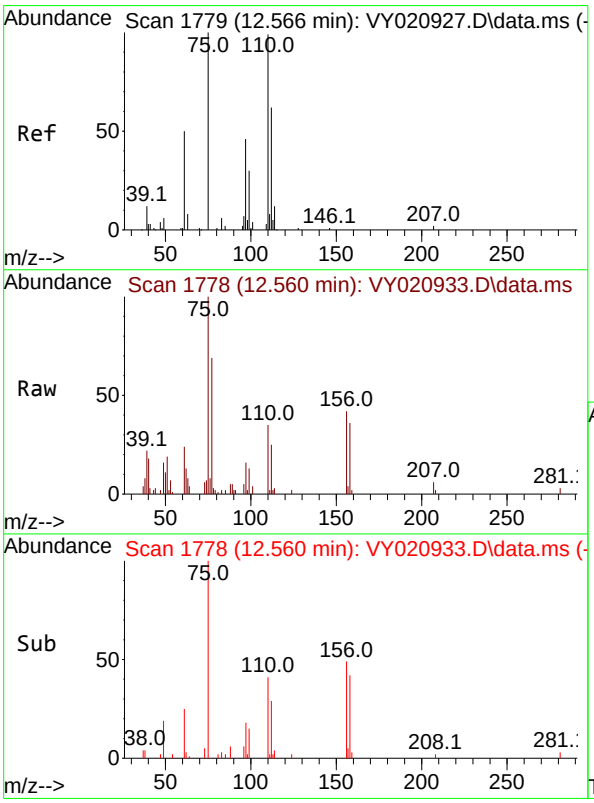
Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

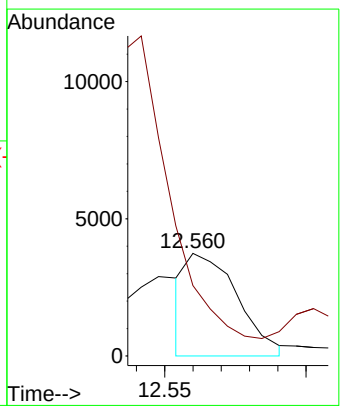


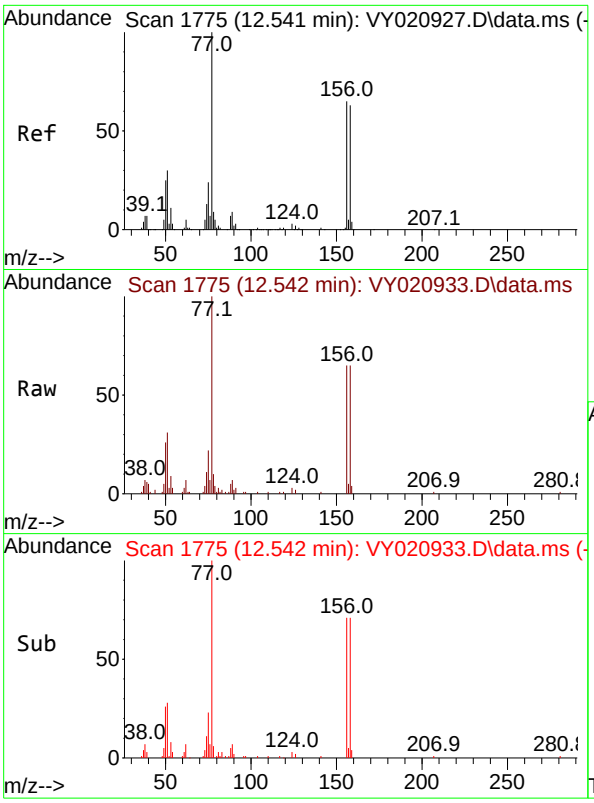




#76
1,2,3-Trichloropropane
Concen: 4.129 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 75 Resp: 4726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 438.9 | 0.0 | 0.0# |






#77
Bromobenzene
Concen: 4.928 ug/l
RT: 12.542 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:156 Resp: 1288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 161.0 | 84.4 | 253.1 |
| 158 | 93.5 | 48.9 | 146.6 |

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

**Manual Integrations**
**APPROVED**

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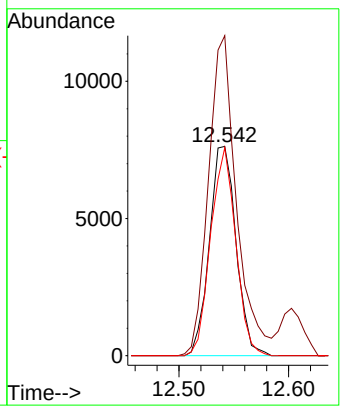
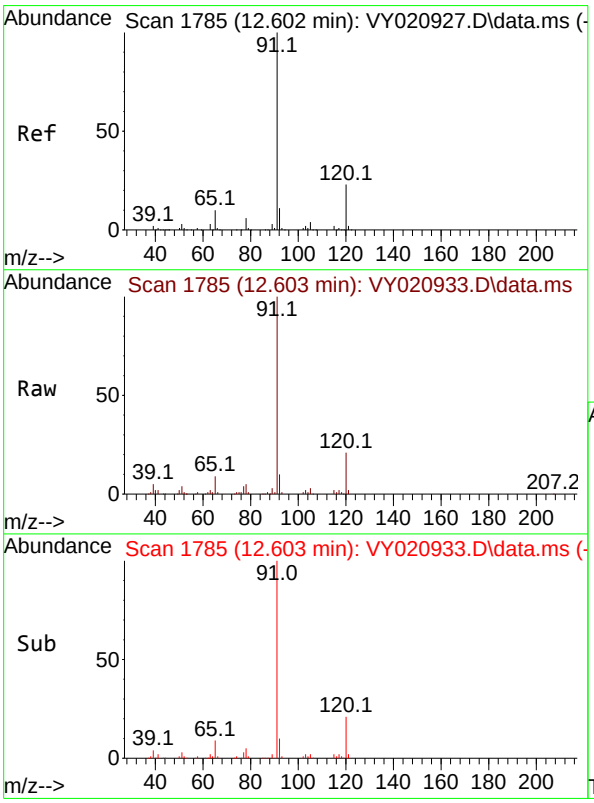
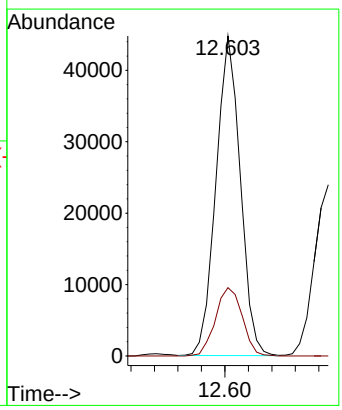


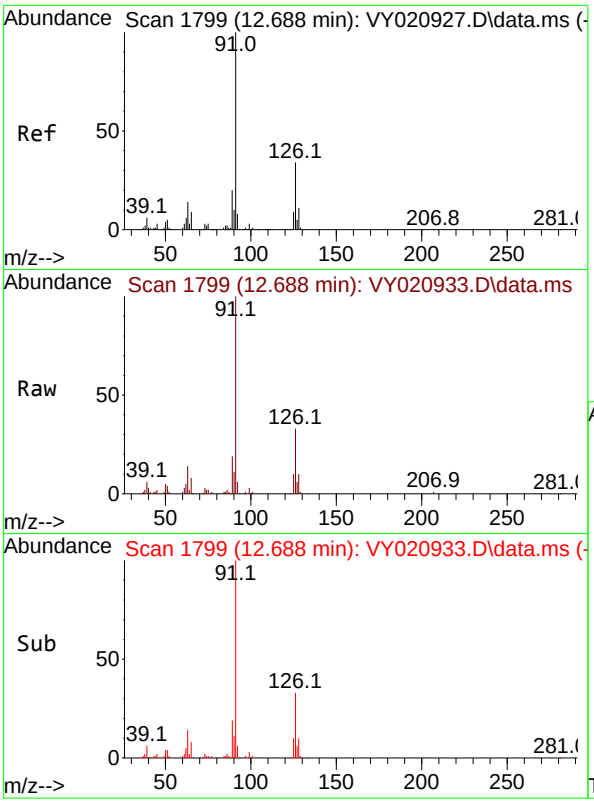




#78
n-propylbenzene
Concen: 4.950 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 91 Resp: 64297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.5 | 11.8 | 35.4 |






#79
2-Chlorotoluene
Concen: 4.990 ug/l
RT: 12.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

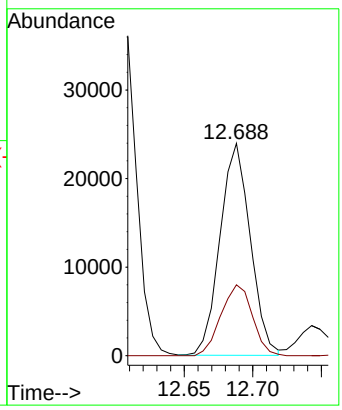
Tgt Ion: 91 Resp: 3675

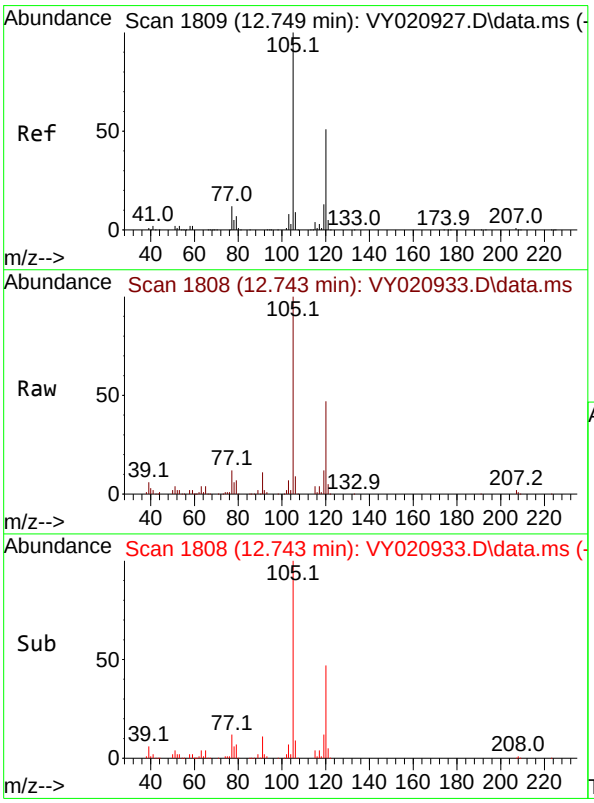
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.6 | 17.6 | 52.9 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

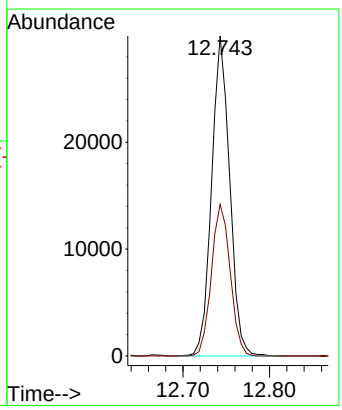


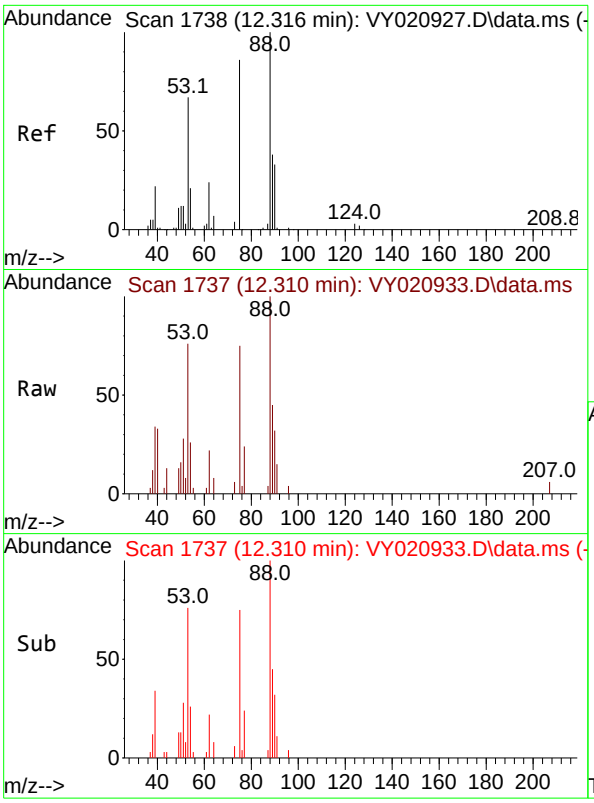




#80
1,3,5-Trimethylbenzene
Concen: 4.848 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:105 Resp: 43435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.1 | 24.9 | 74.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 3.744 ug/l
RT: 12.310 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

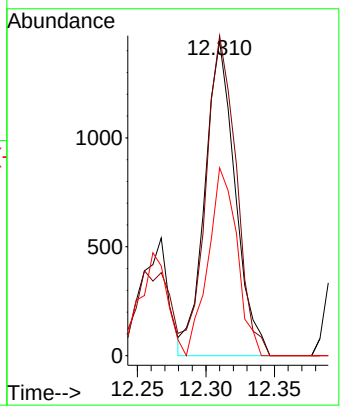
Tgt Ion: 75 Resp: 221

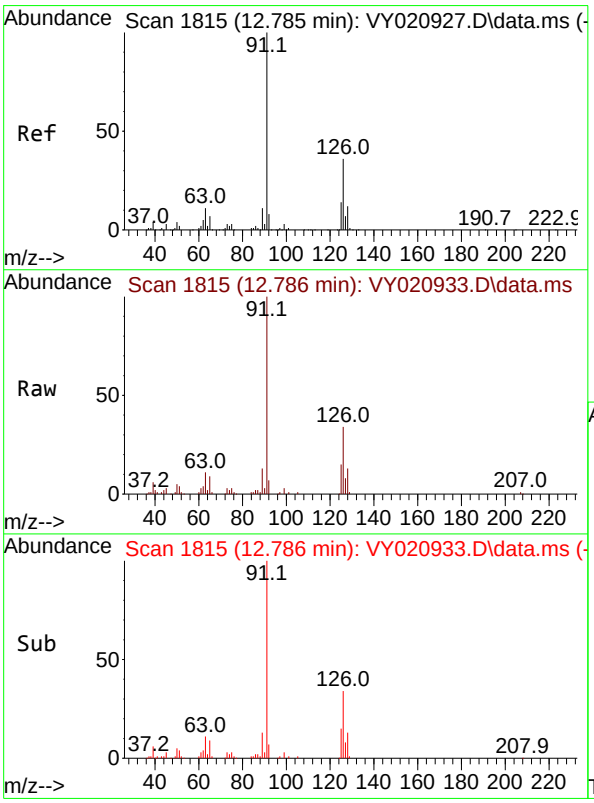
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 102.3 | 67.7 | 101.5 |
| 89 | 56.9 | 38.4 | 57.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

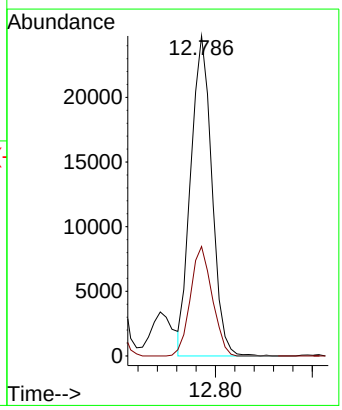


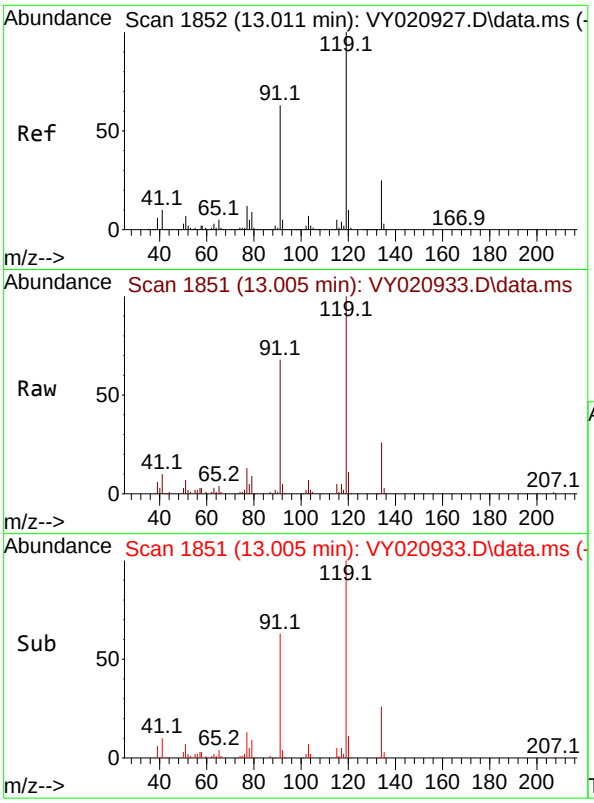




#82
4-Chlorotoluene
Concen: 4.969 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 91 Resp: 37376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.3 | 17.4 | 52.3 |






#83
tert-Butylbenzene
Concen: 4.895 ug/l
RT: 13.005 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

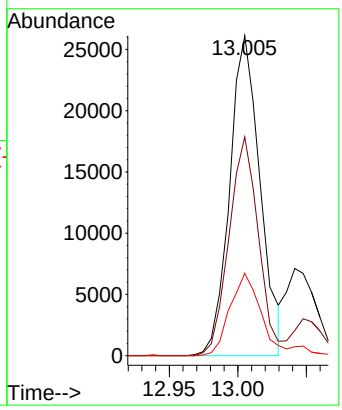
Tgt Ion:119 Resp: 4045

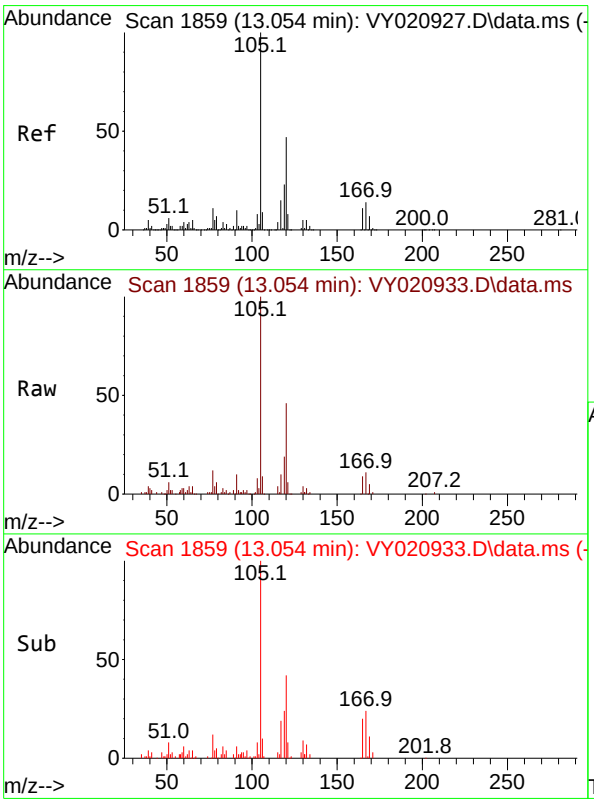
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.5 | 30.9 | 92.8 |
| 134 | 27.7 | 13.1 | 39.3 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

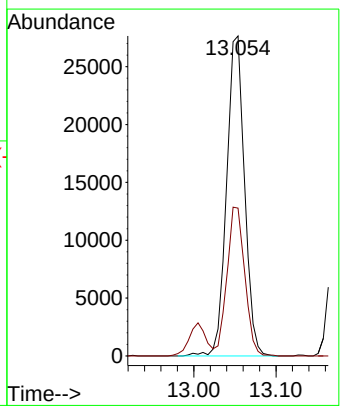


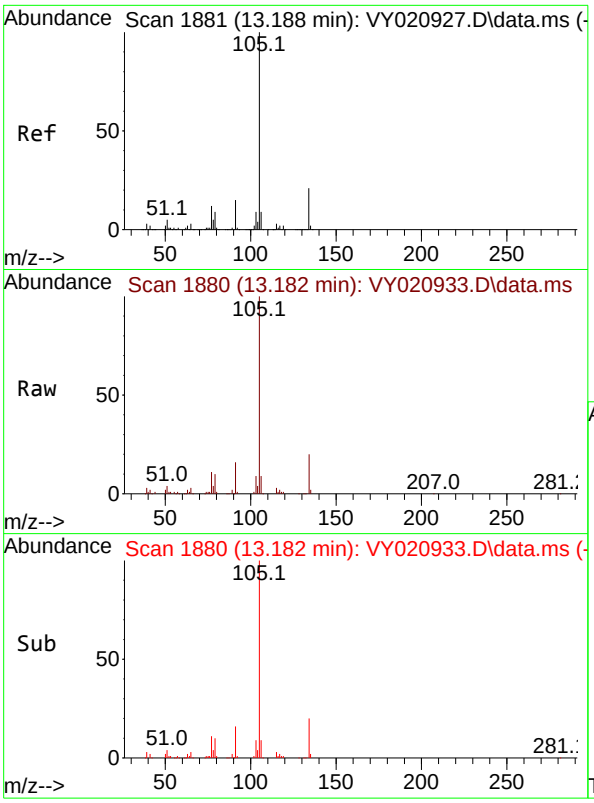




#84
1,2,4-Trimethylbenzene
Concen: 4.769 ug/l
RT: 13.054 min Scan# 1859
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:105 Resp: 42059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 22.9 | 68.7 |






#85
sec-Butylbenzene
Concen: 4.885 ug/l
RT: 13.182 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

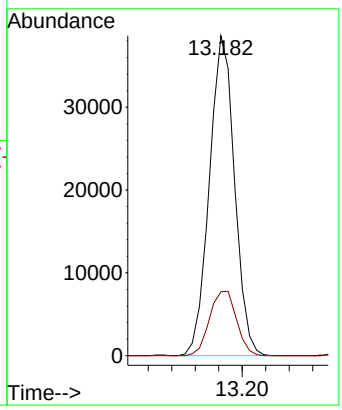
Tgt Ion:105 Resp: 5755

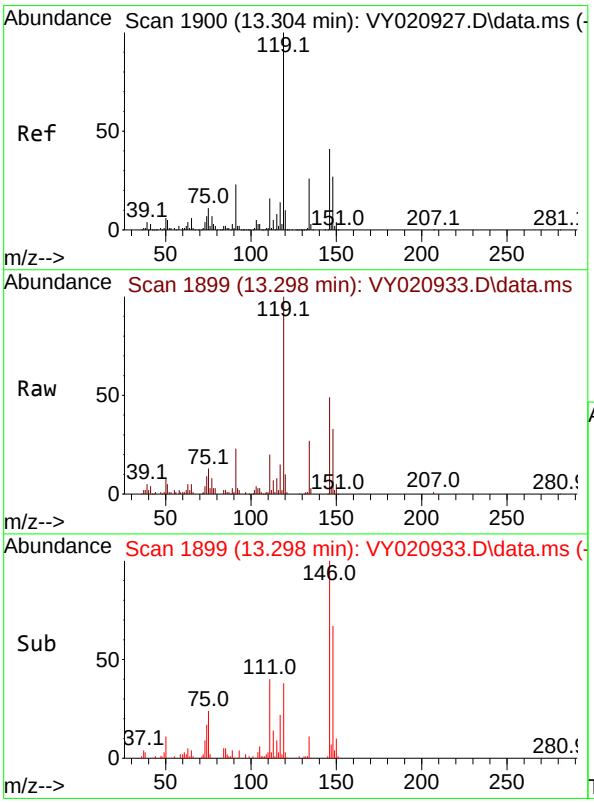
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.6 | 10.4 | 31.4 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

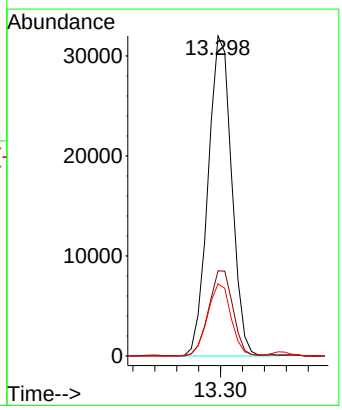


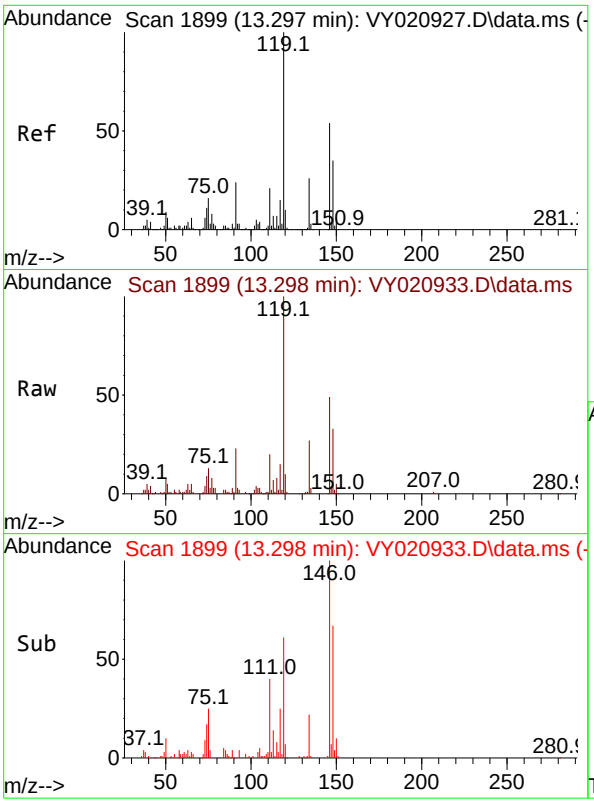




#86
p-Isopropyltoluene
Concen: 4.811 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:119 Resp: 47891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 27.3 | 13.3 | 39.8 |
| 91 | 22.6 | 11.6 | 34.7 |






#87
1,3-Dichlorobenzene
Concen: 4.981 ug/l
RT: 13.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

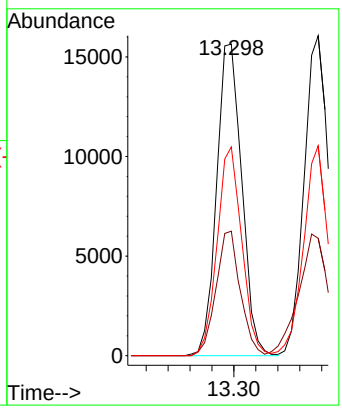
Tgt Ion:146 Resp: 2492

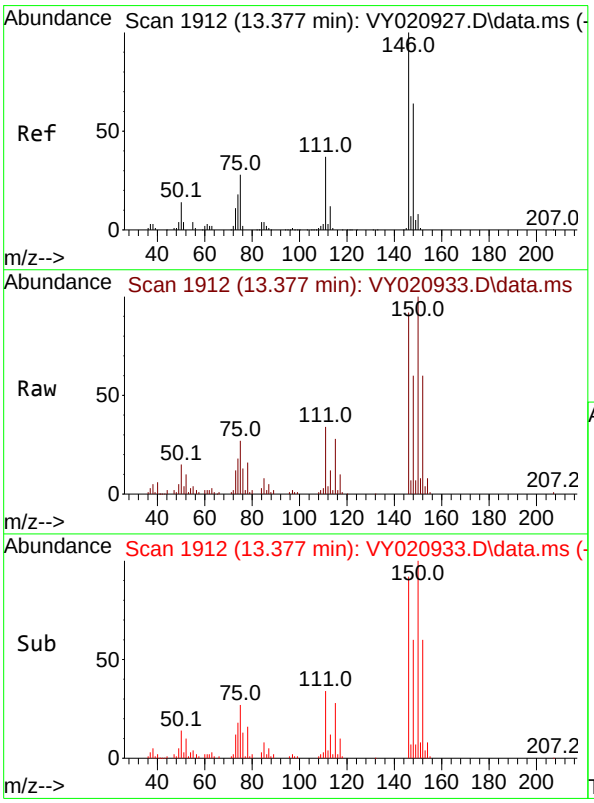
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.8 | 19.4 | 58.2 |
| 148 | 65.7 | 31.9 | 95.7 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

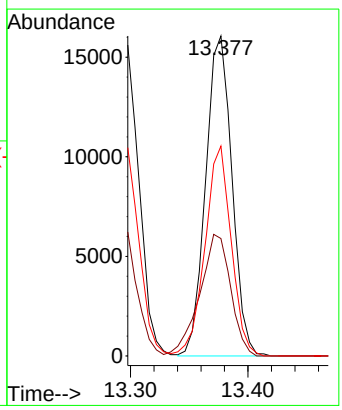


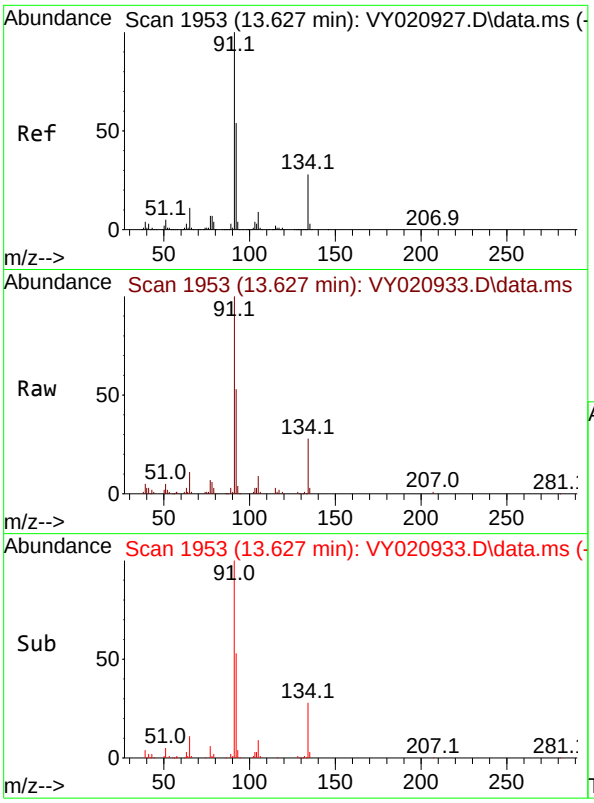




#88
1,4-Dichlorobenzene
Concen: 5.083 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:146 Resp: 24992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.7 | 18.8 | 56.4 |
| 148 | 65.5 | 32.0 | 96.0 |






#89
n-Butylbenzene
Concen: 4.726 ug/l
RT: 13.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

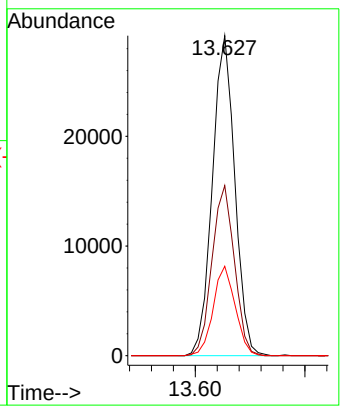
Tgt Ion: 91 Resp: 4149

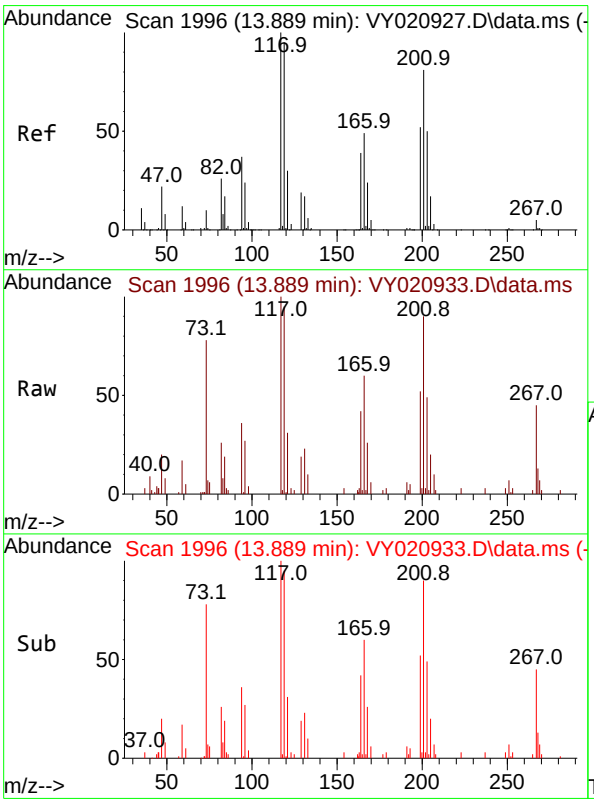
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.1 | 26.8 | 80.3 |
| 134 | 27.5 | 13.8 | 41.4 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

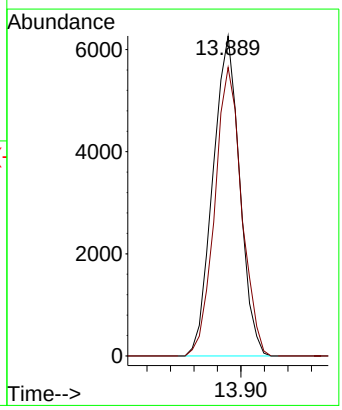


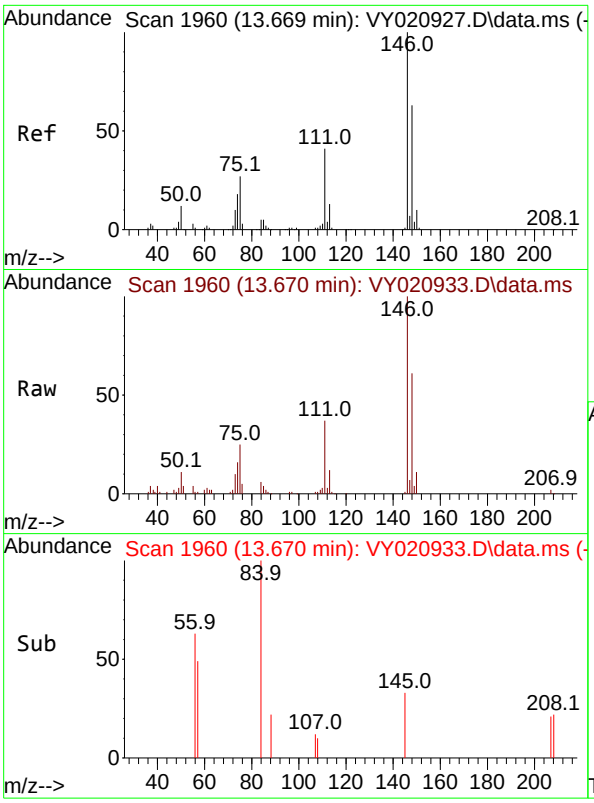




#90
Hexachloroethane
Concen: 5.021 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:117 Resp: 9929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 90.2 | 42.7 | 128.1 |






#91
1,2-Dichlorobenzene
Concen: 4.985 ug/l
RT: 13.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

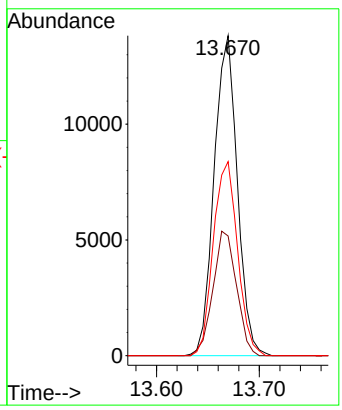
Tgt Ion:146 Resp: 2161

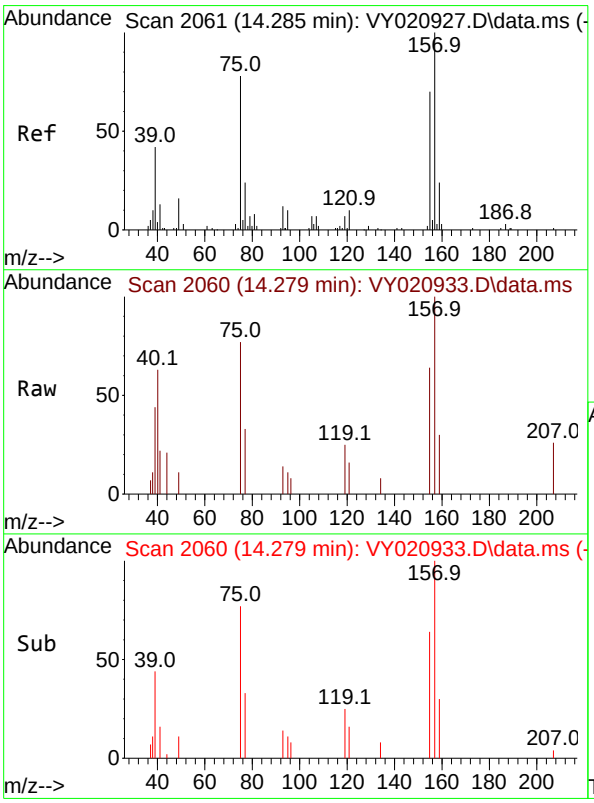
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.6 | 20.2 | 60.6 |
| 148 | 63.5 | 32.2 | 96.6 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

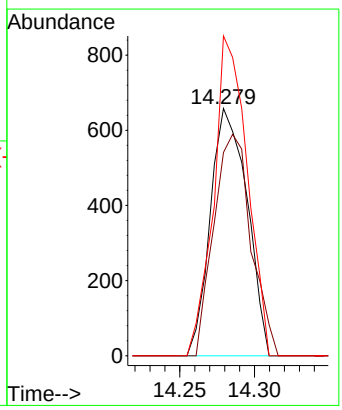


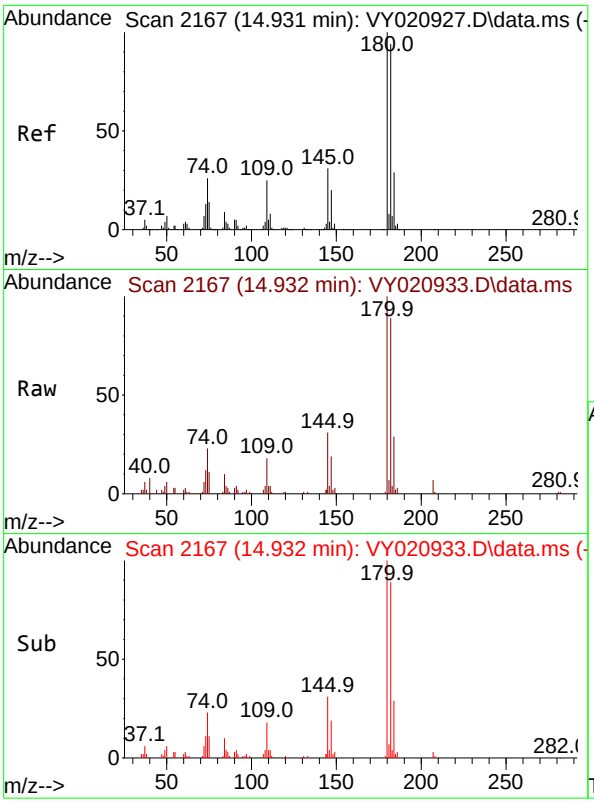




#92
1,2-Dibromo-3-Chloropropane
Concen: 4.301 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. -0.006 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion: 75 Resp: 1121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 90.9 | 46.6 | 139.7 |
| 157 | 118.4 | 60.1 | 180.3 |






#93
1,2,4-Trichlorobenzene
Concen: 4.325 ug/l
RT: 14.932 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

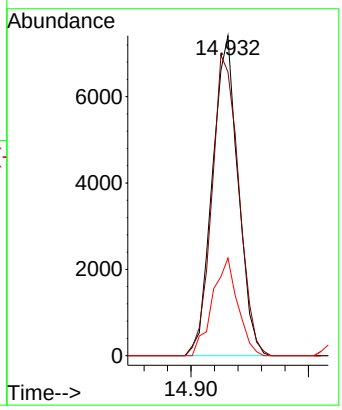
Tgt Ion:180 Resp: 1128

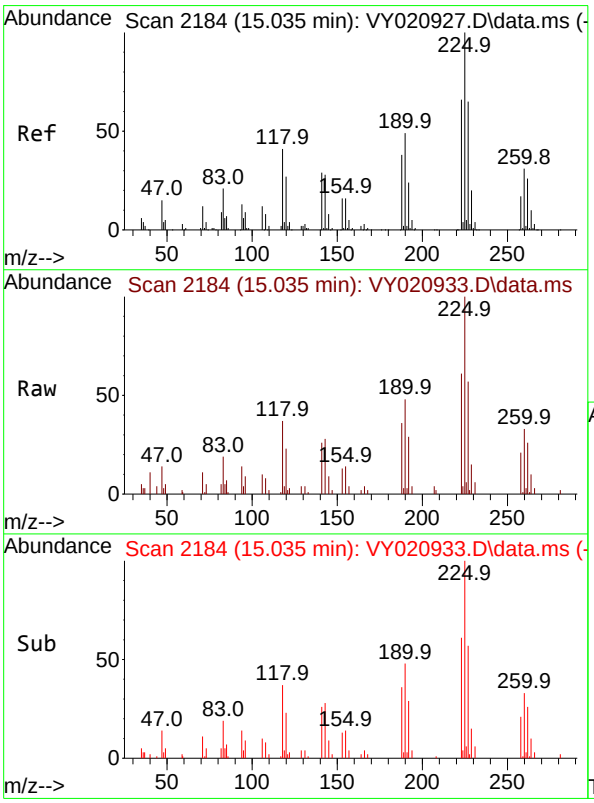
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 98.0 | 47.0 | 141.2 |
| 145 | 30.1 | 14.9 | 44.5 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

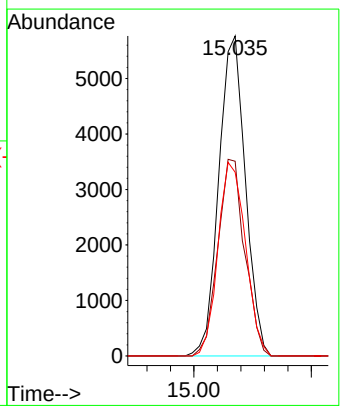


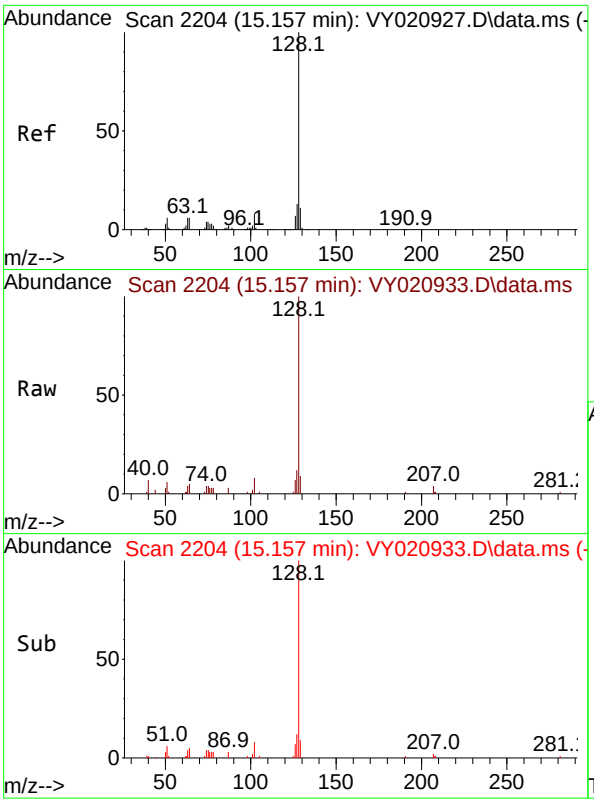




#94
Hexachlorobutadiene
Concen: 5.084 ug/l
RT: 15.035 min Scan# 2184
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:225 Resp: 9074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.1 | 31.5 | 94.5 |
| 227 | 62.6 | 31.9 | 95.9 |






#95
Naphthalene
Concen: 3.755 ug/l
RT: 15.157 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

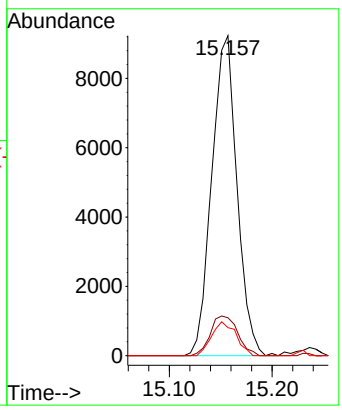
Tgt Ion:128 Resp: 1570

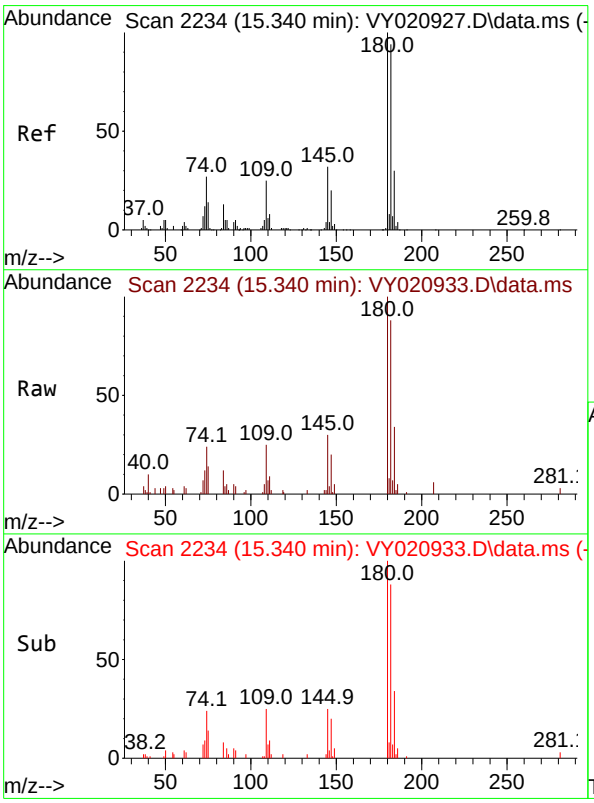
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.5 | 10.3 | 15.5 |
| 129 | 10.3 | 8.8 | 13.2 |

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

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

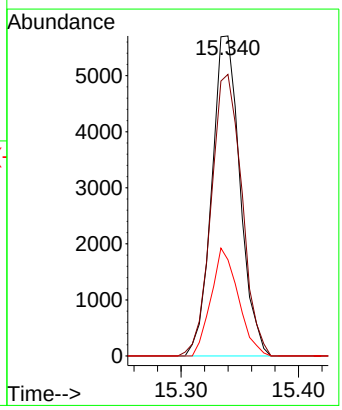



#96
1,2,3-Trichlorobenzene
Concen: 4.349 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020933.D
Acq: 24 Jan 2025 16:21

Tgt Ion:180 Resp: 9532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 47.5 | 142.6 |
| 145 | 32.5 | 15.7 | 47.0 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020934.D
Acq On : 24 Jan 2025 17:29
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**
Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

Quant Time: Jan 25 01:43:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:08:18 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.720 | 168 | 249417 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 375923 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 322470 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 159909 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 102024 | 51.304 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 102.600% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 105359 | 48.820 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 97.640% | | | |
| 50) Toluene-d8 | 10.115 | 98 | 404094 | 48.274 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 96.540% | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 137380 | 49.313 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 98.620% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 87577 | 46.424 | ug/l | 100 |
| 3) Chloromethane | 2.074 | 50 | 69378 | 49.446 | ug/l | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 73564 | 48.106 | ug/l | 100 |
| 5) Bromomethane | 2.605 | 94 | 51213 | 49.446 | ug/l | 94 |
| 6) Chloroethane | 2.745 | 64 | 45591 | 50.817 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 159588 | 49.118 | ug/l | 99 |
| 8) Diethyl Ether | 3.464 | 74 | 54774 | 54.852 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 106487 | 49.672 | ug/l | 98 |
| 10) Methyl Iodide | 4.019 | 142 | 129742 | 50.782 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.873 | 59 | 35319 | 230.070 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.800 | 96 | 101729 | 50.247 | ug/l | 98 |
| 13) Acrolein | 3.659 | 56 | 55243 | 265.447 | ug/l | 100 |
| 14) Allyl chloride | 4.397 | 41 | 146397 | 51.808 | ug/l | 98 |
| 15) Acrylonitrile | 5.074 | 53 | 110519 | 281.559 | ug/l | 100 |
| 16) Acetone | 3.879 | 43 | 73825 | 274.000 | ug/l | 98 |
| 17) Carbon Disulfide | 4.117 | 76 | 313035 | 50.066 | ug/l | 100 |
| 18) Methyl Acetate | 4.397 | 43 | 52100 | 53.528 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.129 | 73 | 257823 | 54.981 | ug/l | 98 |
| 20) Methylene Chloride | 4.629 | 84 | 105786 | 52.792 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.129 | 96 | 111482 | 51.071 | ug/l | 98 |
| 22) Diisopropyl ether | 6.025 | 45 | 308334 | 54.247 | ug/l | 94 |
| 23) Vinyl Acetate | 5.970 | 43 | 887422 | 282.102 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 188482 | 52.312 | ug/l | 99 |
| 25) 2-Butanone | 6.903 | 43 | 129028 | 282.706 | ug/l | 94 |
| 26) 2,2-Dichloropropane | 6.897 | 77 | 169896 | 47.873 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.903 | 96 | 130137 | 52.825 | ug/l | 98 |
| 28) Bromochloromethane | 7.256 | 49 | 80606 | 55.587 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.275 | 42 | 87303 | 287.016 | ug/l | 100 |
| 30) Chloroform | 7.433 | 83 | 200383 | 52.547 | ug/l | 98 |
| 31) Cyclohexane | 7.707 | 56 | 167313 | 47.247 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 185498 | 50.150 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 146535 | 48.632 | ug/l | 99 |
| 37) Ethyl Acetate | 6.994 | 43 | 61220 | 52.368 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 176755 | 48.644 | ug/l | 98 |
| 39) Methylcyclohexane | 9.116 | 83 | 200589 | 49.174 | ug/l | 99 |
| 40) Benzene | 8.085 | 78 | 444264 | 50.258 | ug/l | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020934.D
Acq On : 24 Jan 2025 17:29
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 25 01:43:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:08:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 29279 | 47.411 ug/l # | 86 |
| 42) 1,2-Dichloroethane | 8.165 | 62 | 115847 | 52.669 ug/l | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 122144 | 55.099 ug/l | 99 |
| 44) Trichloroethene | 8.872 | 130 | 119881 | 49.919 ug/l | 96 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 102743 | 52.655 ug/l | 99 |
| 46) Dibromomethane | 9.238 | 93 | 59047 | 53.229 ug/l | 99 |
| 47) Bromodichloromethane | 9.427 | 83 | 153261 | 51.925 ug/l | 98 |
| 48) Methyl methacrylate | 9.225 | 41 | 57683 | 55.161 ug/l | 100 |
| 49) 1,4-Dioxane | 9.238 | 88 | 12853 | 1125.314 ug/l | 93 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 312235 | 279.337 ug/l | 99 |
| 52) Toluene | 10.176 | 92 | 291201 | 51.221 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 144349 | 53.338 ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 170478 | 52.755 ug/l | 99 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 77755 | 51.855 ug/l | 98 |
| 56) Ethyl methacrylate | 10.445 | 69 | 110172 | 56.063 ug/l | 99 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 134618 | 52.847 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 259350 | 290.780 ug/l | 100 |
| 59) 2-Hexanone | 10.768 | 43 | 206073 | 286.705 ug/l | 100 |
| 60) Dibromochloromethane | 10.914 | 129 | 111605 | 52.885 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 76262 | 53.174 ug/l | 99 |
| 64) Tetrachloroethene | 10.652 | 164 | 109879 | 48.963 ug/l | 96 |
| 65) Chlorobenzene | 11.445 | 112 | 317906 | 50.414 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 114790 | 51.226 ug/l | 99 |
| 67) Ethyl Benzene | 11.524 | 91 | 552137 | 50.178 ug/l | 100 |
| 68) m/p-Xylenes | 11.634 | 106 | 425851 | 101.071 ug/l | 100 |
| 69) o-Xylene | 11.963 | 106 | 201224 | 51.128 ug/l | 99 |
| 70) Styrene | 11.975 | 104 | 341185 | 52.897 ug/l | 100 |
| 71) Bromoform | 12.140 | 173 | 68716 | 54.155 ug/l # | 99 |
| 73) Isopropylbenzene | 12.261 | 105 | 535836 | 48.654 ug/l | 100 |
| 74) N-amyl acetate | 12.079 | 43 | 106558 | 54.373 ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 88378 | 51.576 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 64043m | 58.820 ug/l | |
| 77) Bromobenzene | 12.536 | 156 | 128412 | 49.741 ug/l | 99 |
| 78) n-propylbenzene | 12.603 | 91 | 624466 | 48.677 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 357417 | 49.123 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 435997 | 49.268 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 30508 | 52.132 ug/l | 97 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 367341 | 49.441 ug/l | 100 |
| 83) tert-Butylbenzene | 13.005 | 119 | 402986 | 49.371 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 434406 | 49.864 ug/l | 99 |
| 85) sec-Butylbenzene | 13.182 | 105 | 567874 | 48.797 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 481599 | 48.984 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 244452 | 49.449 ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 238276 | 49.067 ug/l | 99 |
| 89) n-Butylbenzene | 13.627 | 91 | 423619 | 48.846 ug/l | 100 |
| 90) Hexachloroethane | 13.889 | 117 | 94843 | 48.560 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 215149 | 50.233 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 13564 | 52.692 ug/l | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 132251 | 51.329 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 85875 | 48.715 ug/l | 99 |
| 95) Naphthalene | 15.151 | 128 | 231117 | 55.938 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 113923 | 52.629 ug/l | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020934.D
Acq On : 24 Jan 2025 17:29
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

Quant Time: Jan 25 01:43:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:08:18 2025
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

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

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

Quantitation Report (QT Reviewed)

ICAL Form

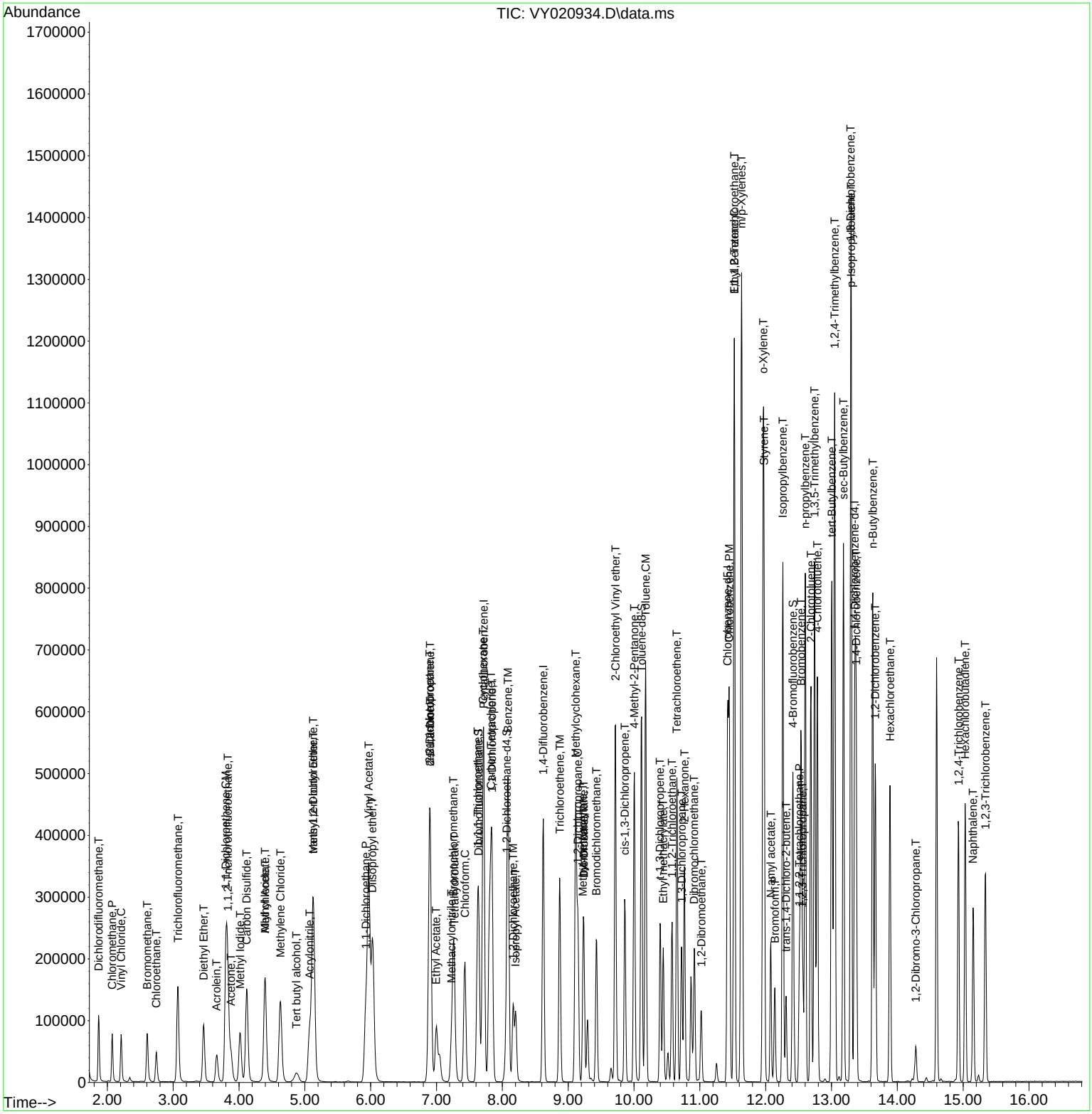
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020934.D
Acq On : 24 Jan 2025 17:29
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

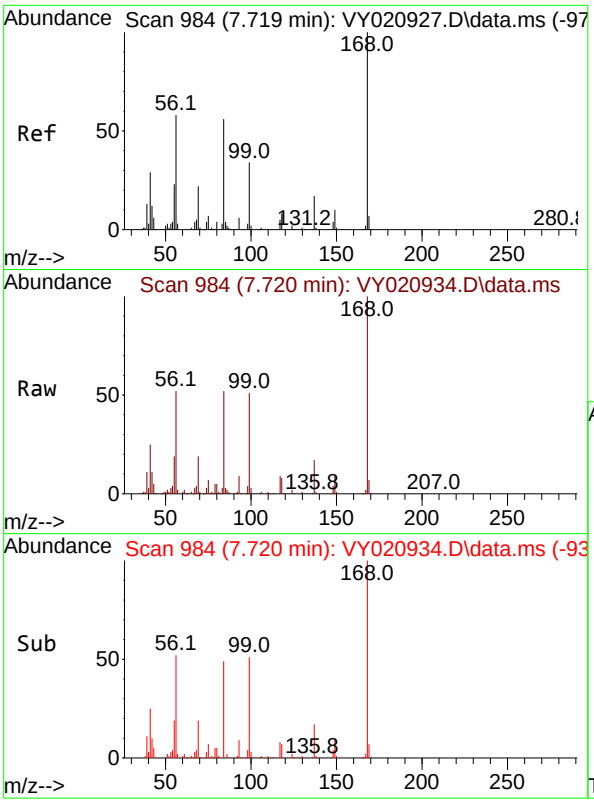
Quant Time: Jan 25 01:43:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:08:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 9
Delta R.T. 0.001 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

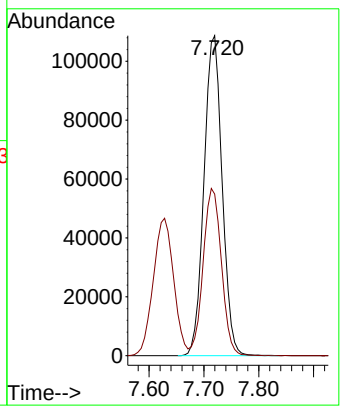
Tgt Ion:168 Resp: 24941

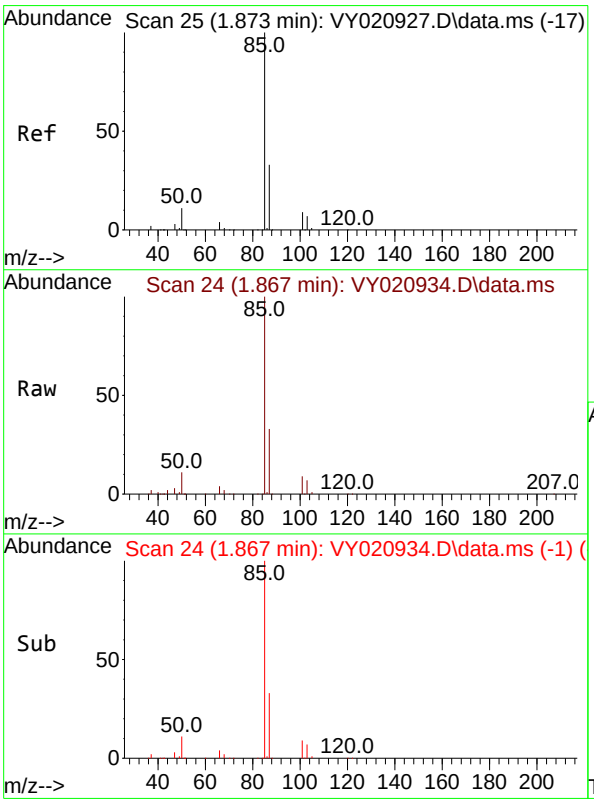
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 50.5 | 43.0 | 64.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

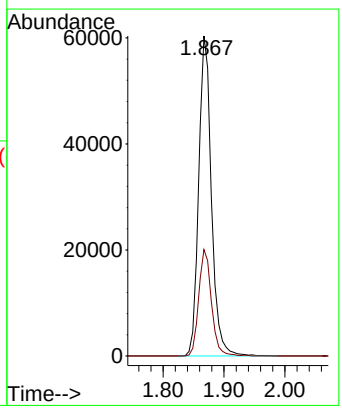


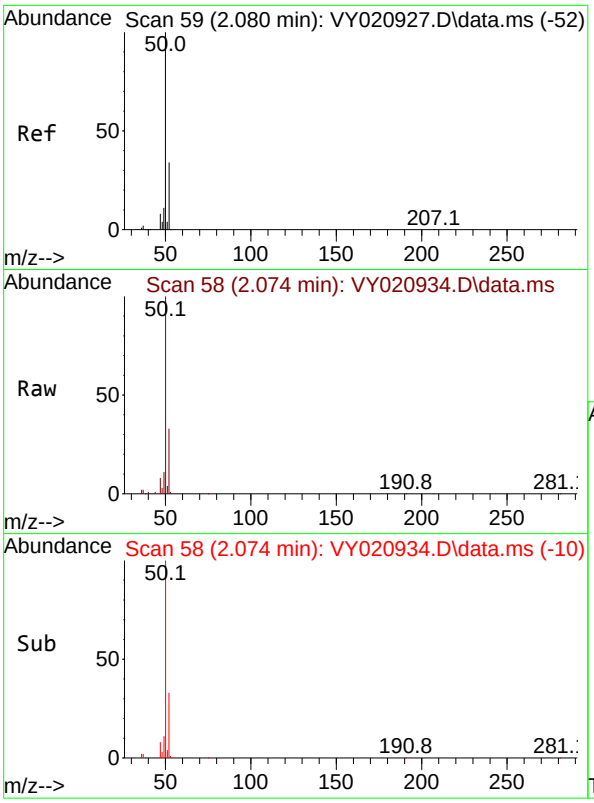




#2
Dichlorodifluoromethane
Concen: 46.424 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 85 Resp: 87577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.3 | 16.6 | 49.8 |






#3
Chloromethane
Concen: 49.446 ug/l
RT: 2.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

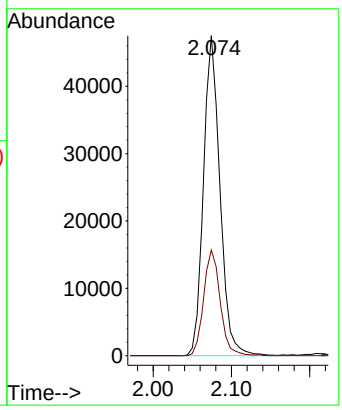
Tgt Ion: 50 Resp: 6937

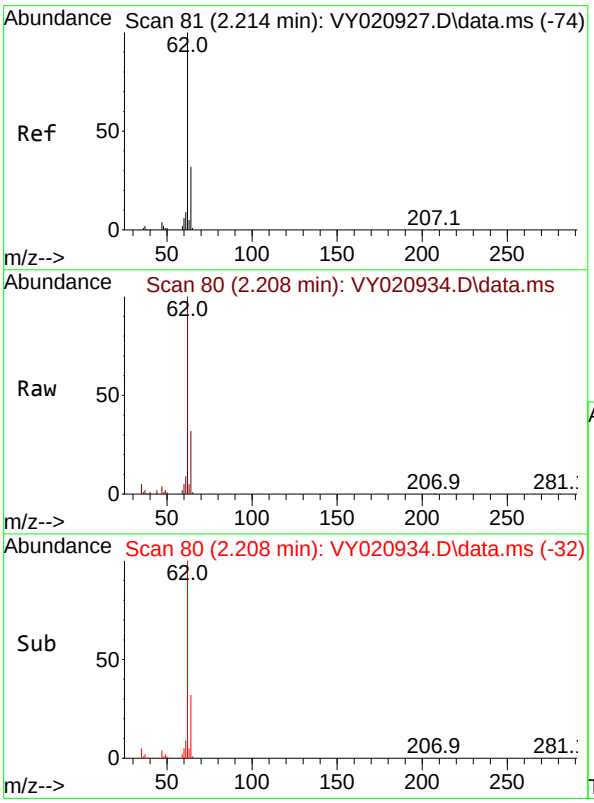
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 27.4 | 41.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

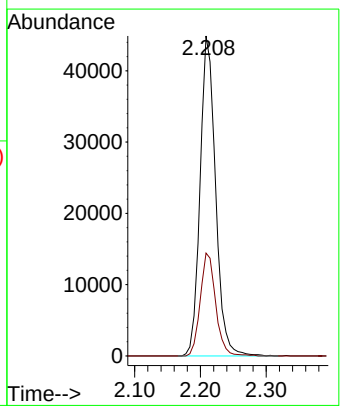


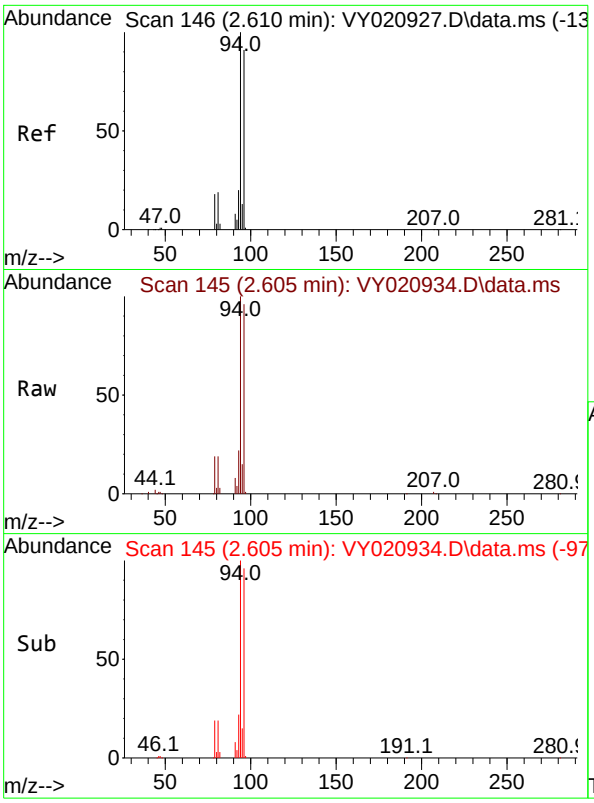




#4
Vinyl Chloride
Concen: 48.106 ug/l
RT: 2.208 min Scan# 80
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 62 Resp: 73564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.2 | 25.7 | 38.5 |






#5
Bromomethane
Concen: 49.446 ug/l
RT: 2.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

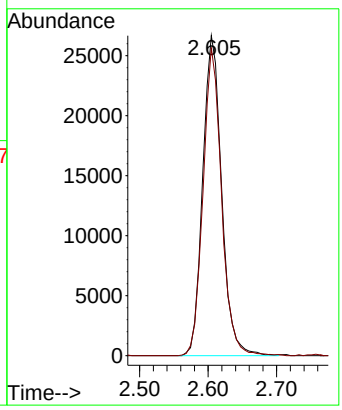
Tgt Ion: 94 Resp: 5121

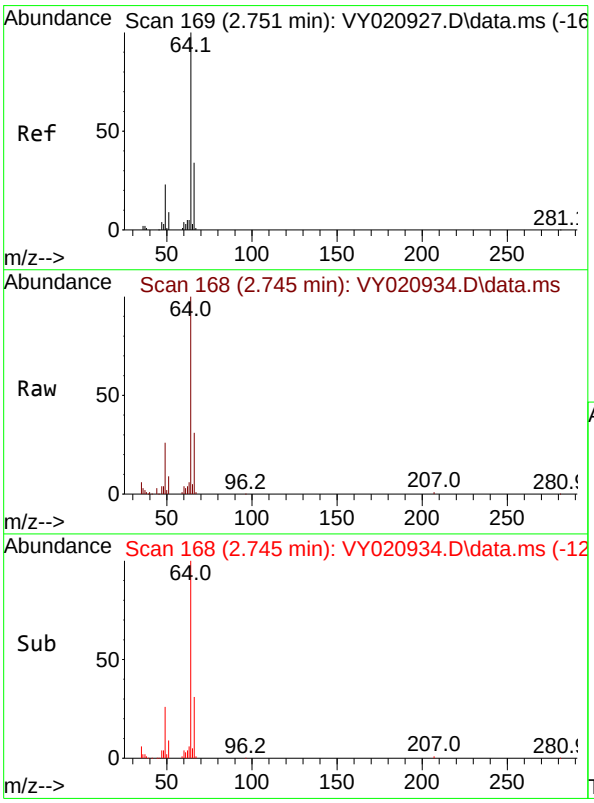
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.3 | 72.6 | 109.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

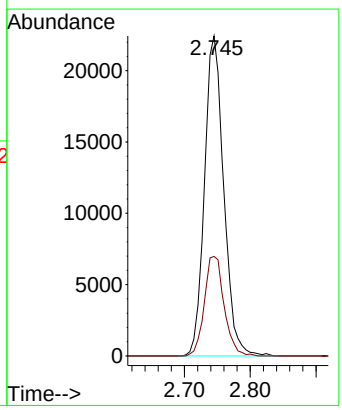


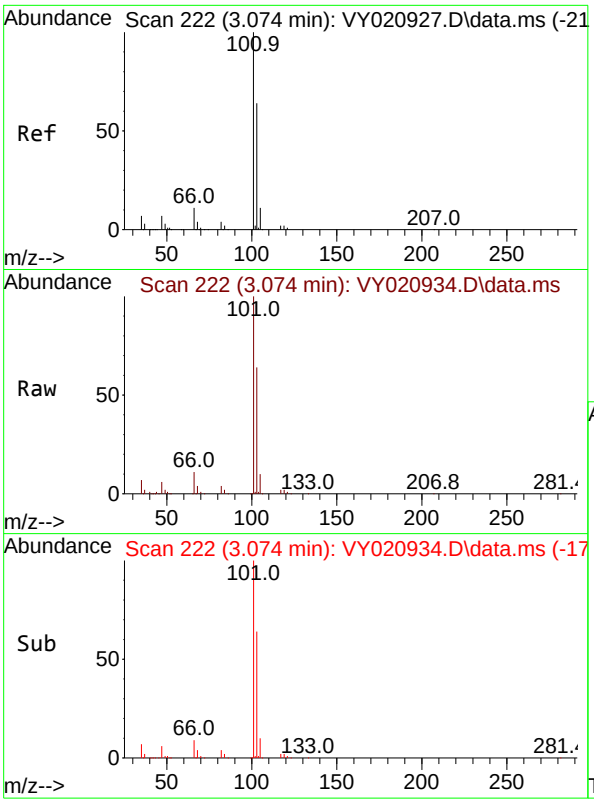




#6
Chloroethane
Concen: 50.817 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 64 Resp: 45591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.1 | 26.9 | 40.3 |






#7
Trichlorofluoromethane
Concen: 49.118 ug/l
RT: 3.074 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

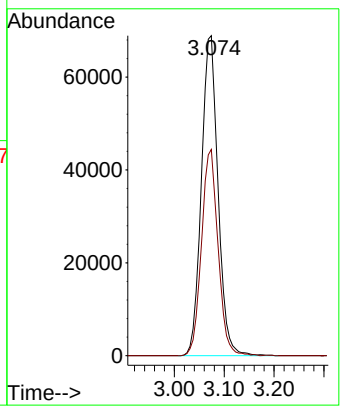
Tgt Ion:101 Resp: 15958

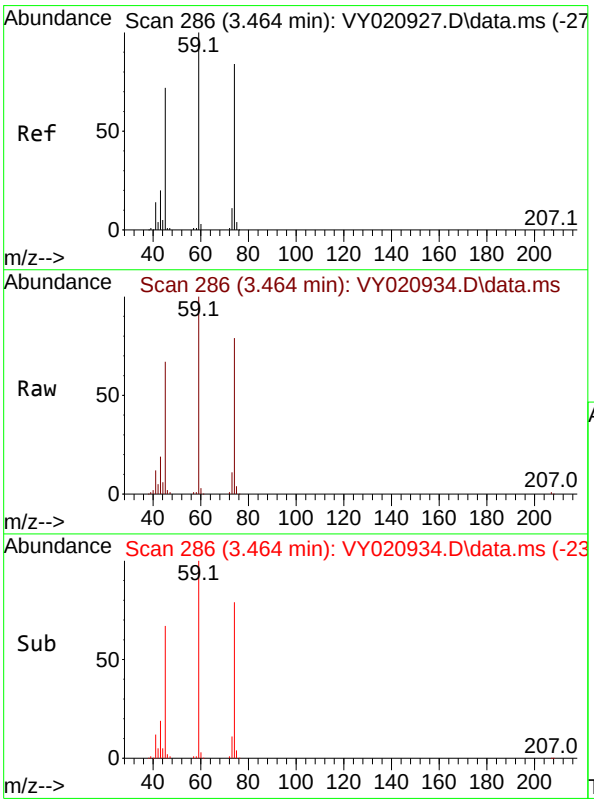
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.4 | 51.0 | 76.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

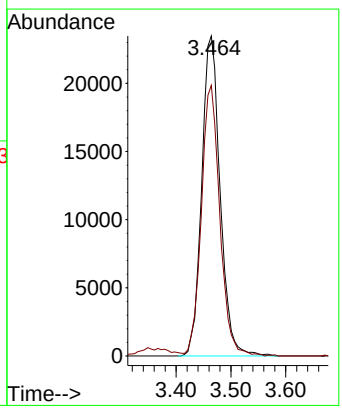


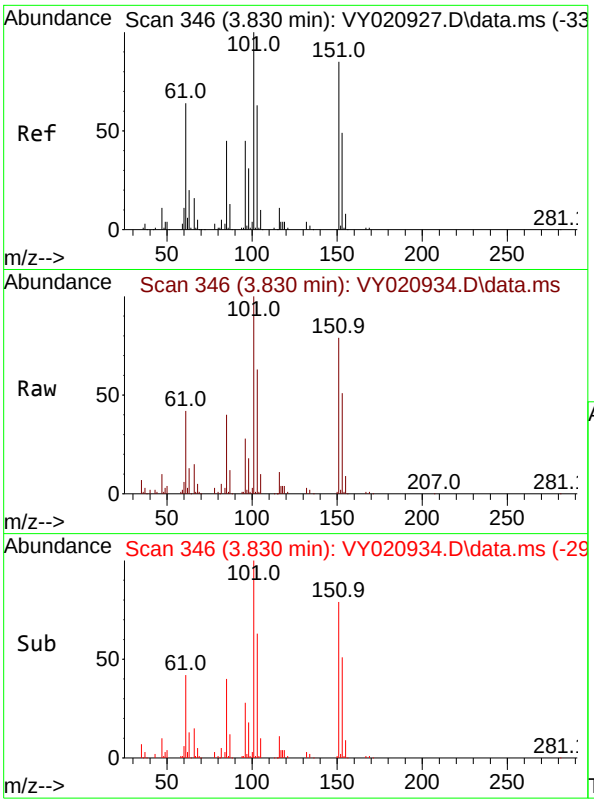




#8
Diethyl Ether
Concen: 54.852 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 74 Resp: 54774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 84.7 | 45.1 | 135.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.672 ug/l
RT: 3.830 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

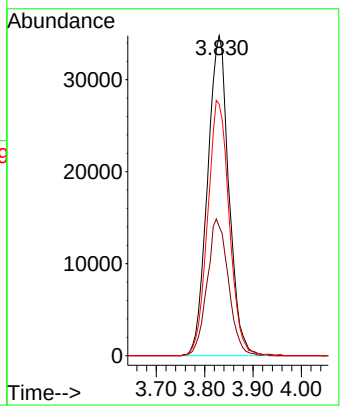
Tgt Ion:101 Resp: 10648

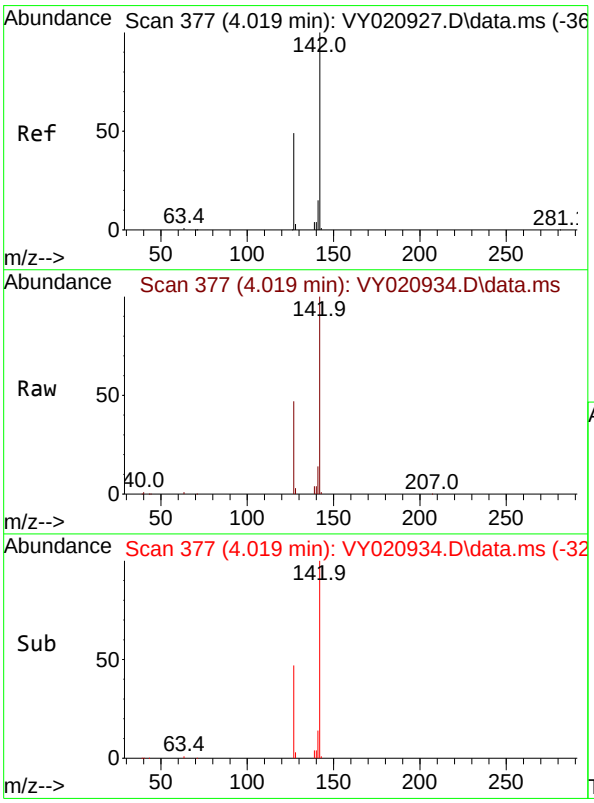
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 42.7 | 35.4 | 53.2 |
| 151 | 80.7 | 66.3 | 99.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

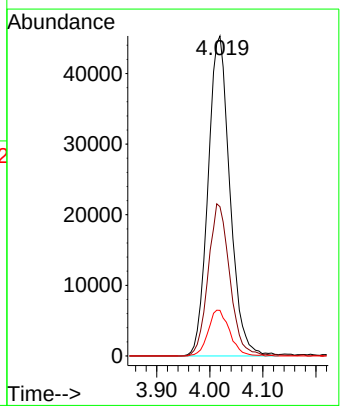


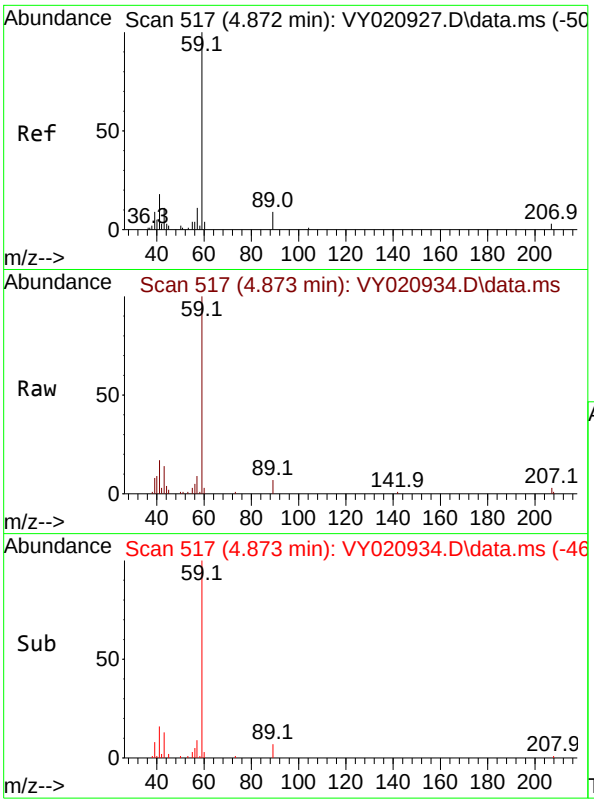




#10
Methyl Iodide
Concen: 50.782 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:142 Resp: 129742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.9 | 37.3 | 55.9 |
| 141 | 14.1 | 11.4 | 17.2 |






#11
Tert butyl alcohol
Concen: 230.070 ug/l
RT: 4.873 min Scan# 5
Delta R.T. 0.001 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

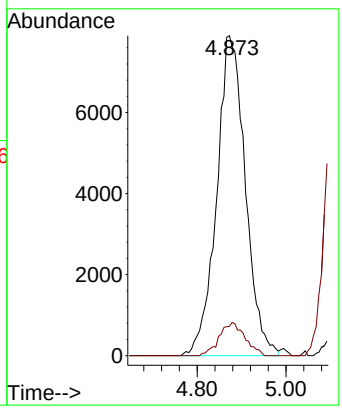
Tgt Ion: 59 Resp: 3531

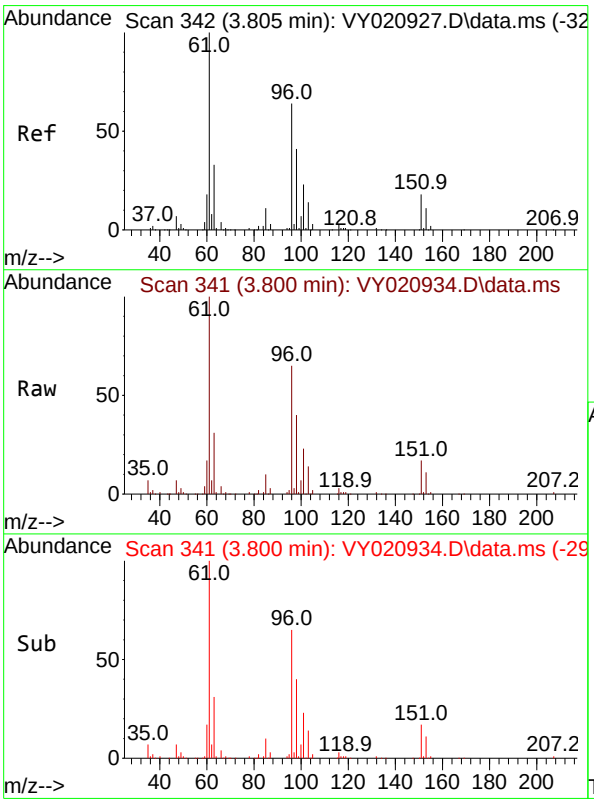
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.3 | 7.7 | 11.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

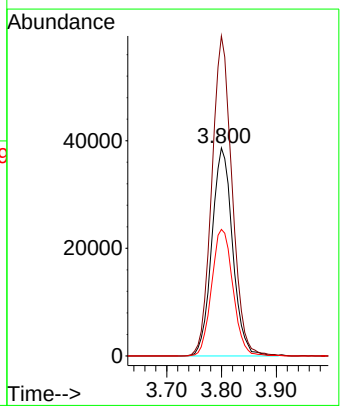


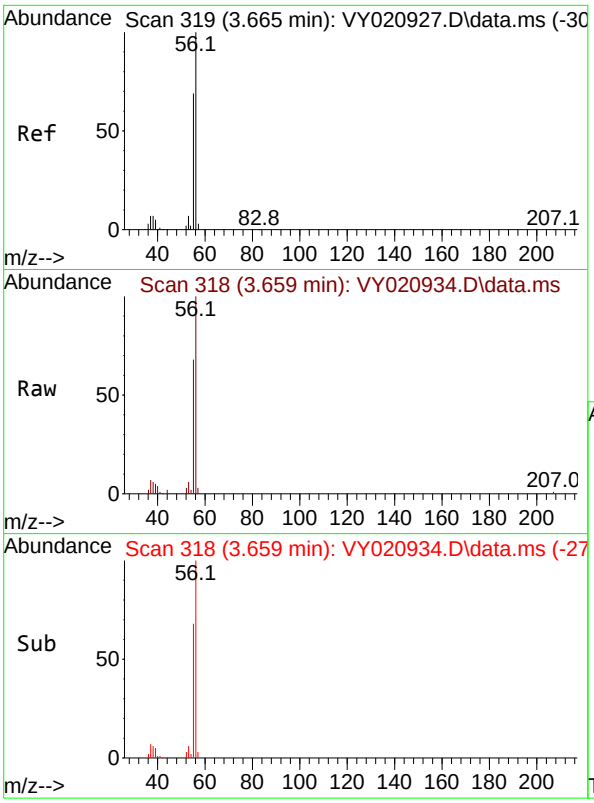




#12
1,1-Dichloroethene
Concen: 50.247 ug/l
RT: 3.800 min Scan# 341
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 96 Resp: 101729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 153.8 | 124.5 | 186.7 |
| 98 | 60.8 | 50.5 | 75.7 |






#13
Acrolein
Concen: 265.447 ug/l
RT: 3.659 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

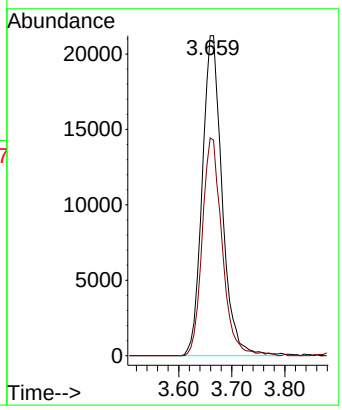
Tgt Ion: 56 Resp: 5524

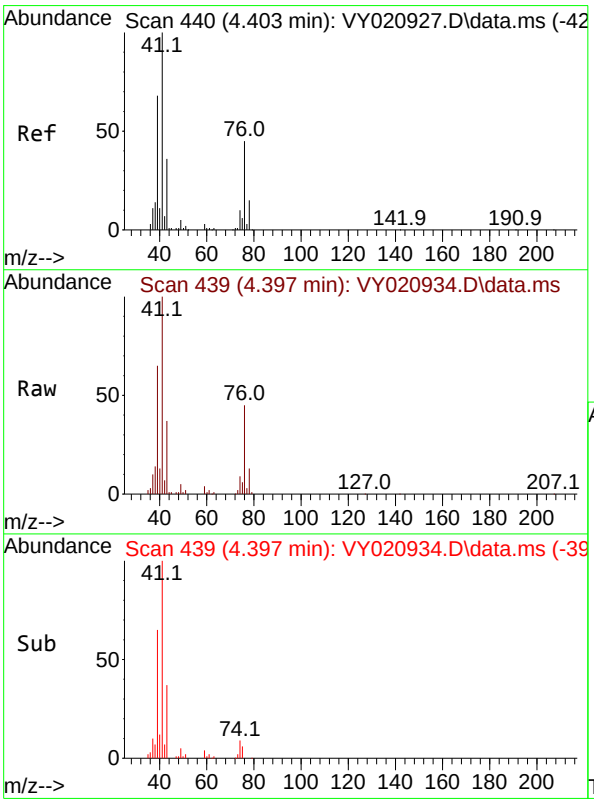
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 67.9 | 54.6 | 81.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

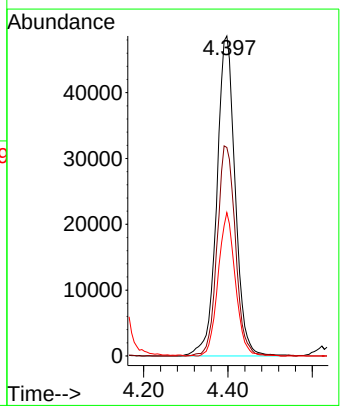


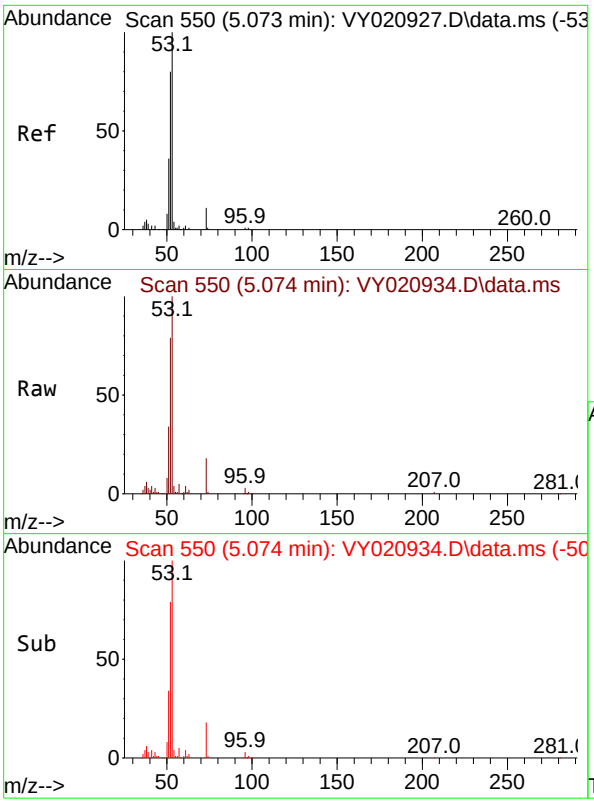




#14
Allyl chloride
Concen: 51.808 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 41 Resp: 146397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 65.4 | 53.8 | 80.6 |
| 76 | 42.1 | 34.2 | 51.4 |






#15
Acrylonitrile
Concen: 281.559 ug/l
RT: 5.074 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

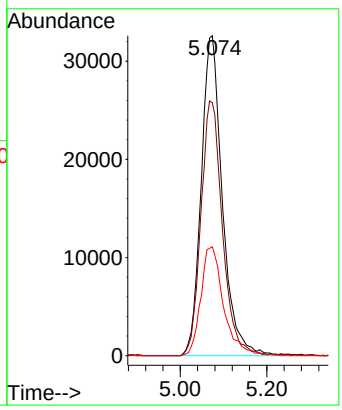
Tgt Ion: 53 Resp: 110519

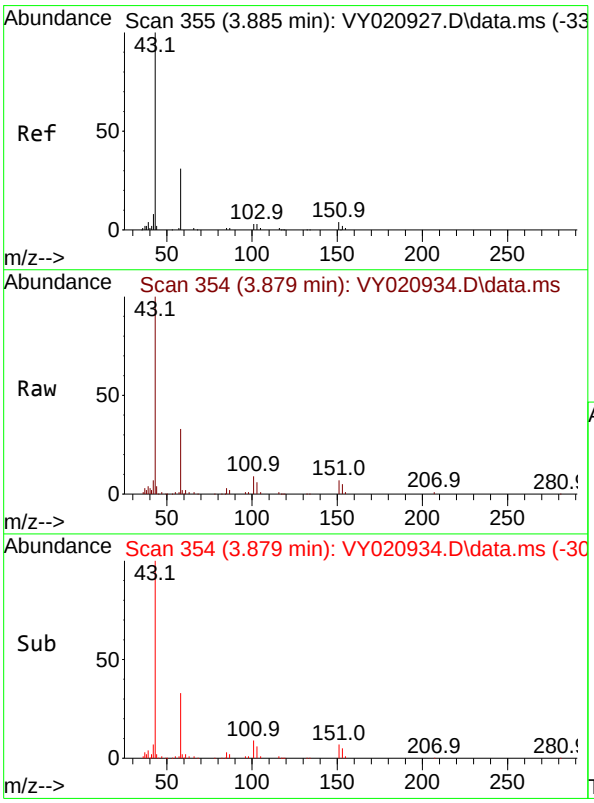
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.9 | 64.5 | 96.7 |
| 51 | 36.6 | 28.9 | 43.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

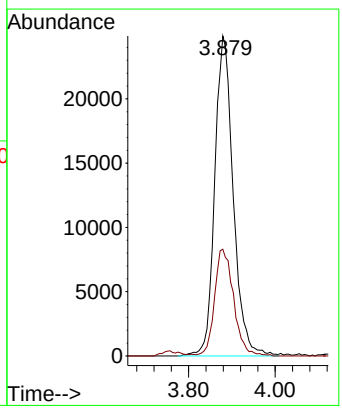


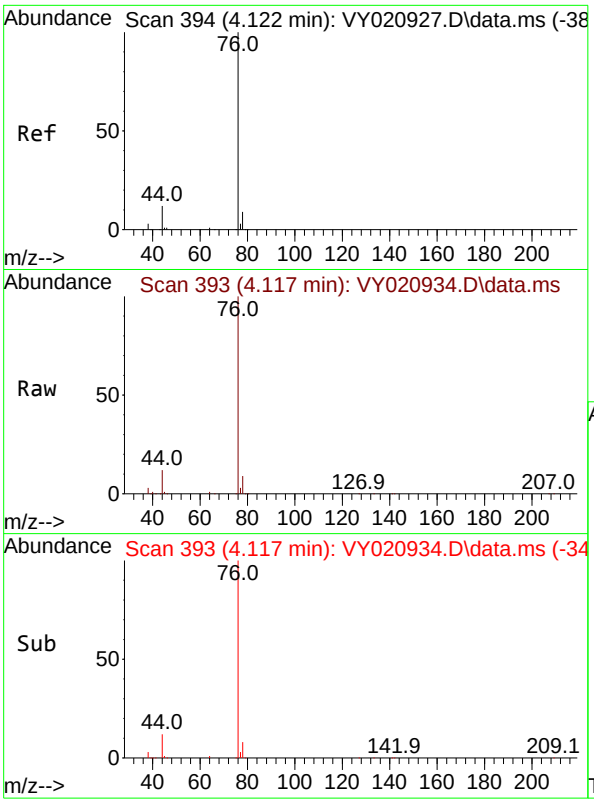




#16
Acetone
Concen: 274.000 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 43 Resp: 73825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.4 | 25.6 | 38.4 |






#17
Carbon Disulfide
Concen: 50.066 ug/l
RT: 4.117 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 76 Resp: 31303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.2 | 10.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 01/27/2025
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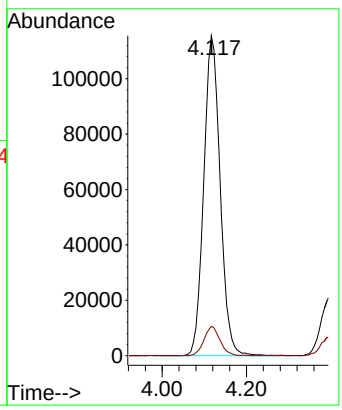
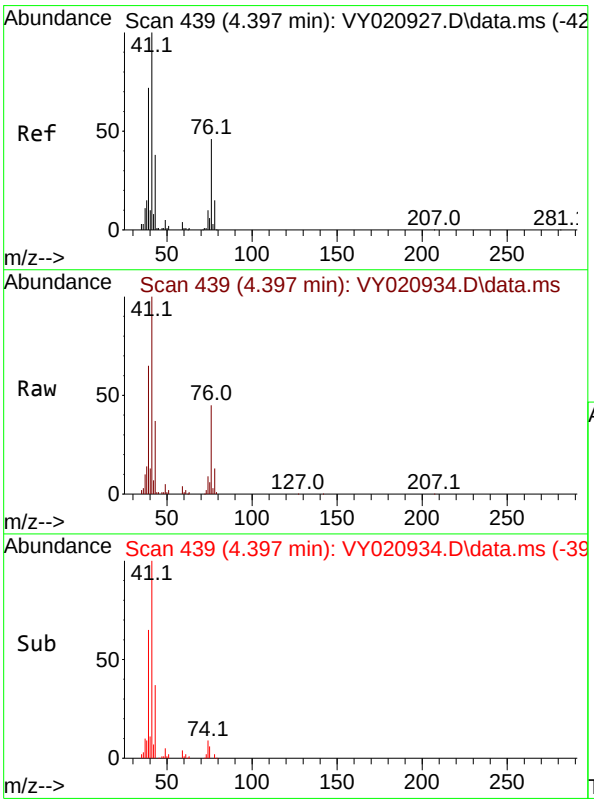
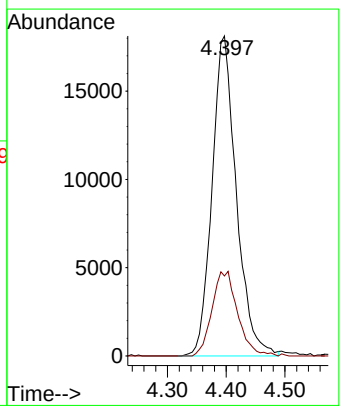


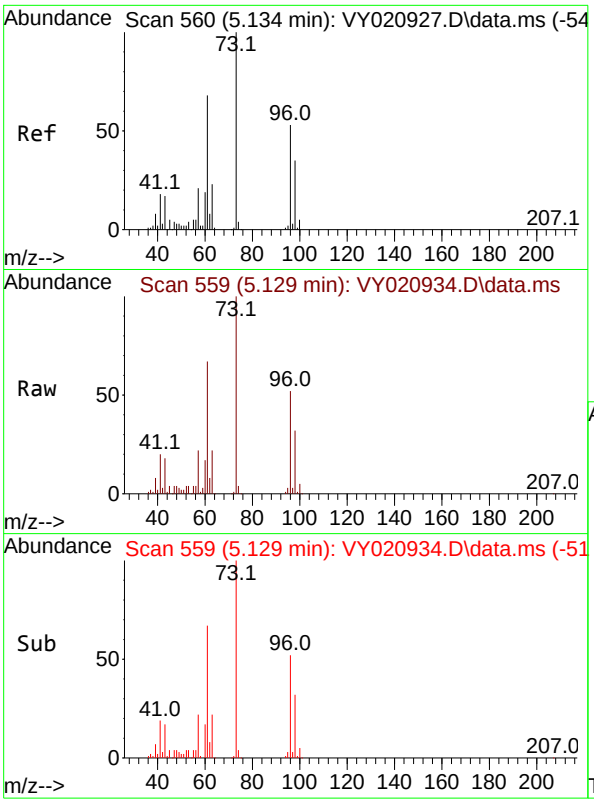




#18
Methyl Acetate
Concen: 53.528 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 43 Resp: 52100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.8 | 21.0 | 31.6 |






#19
Methyl tert-butyl Ether
Concen: 54.981 ug/l
RT: 5.129 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

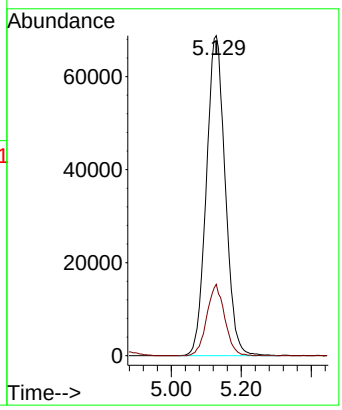
Tgt Ion: 73 Resp: 25782

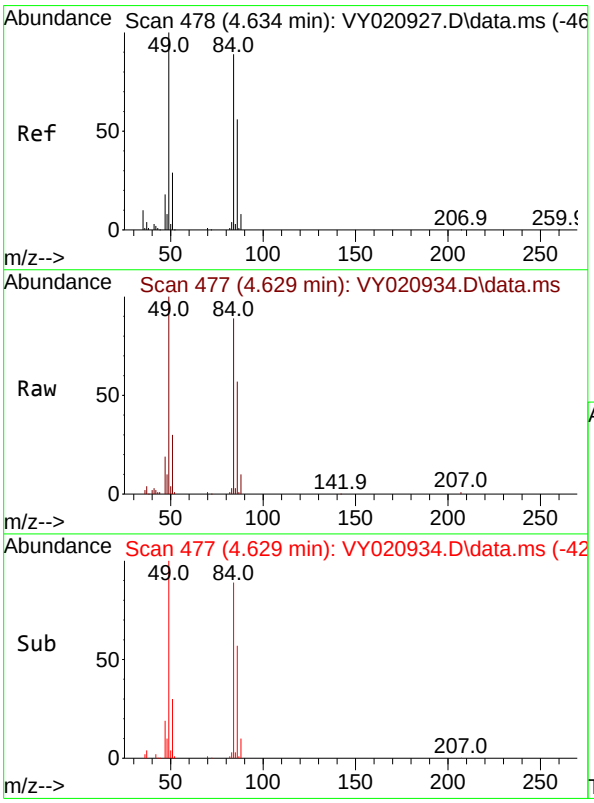
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.3 | 17.0 | 25.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

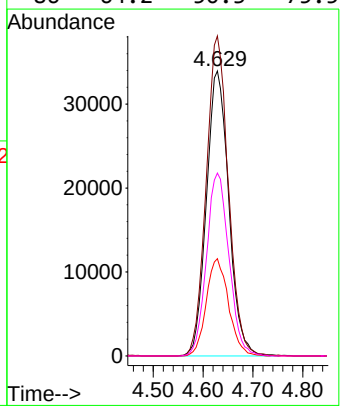


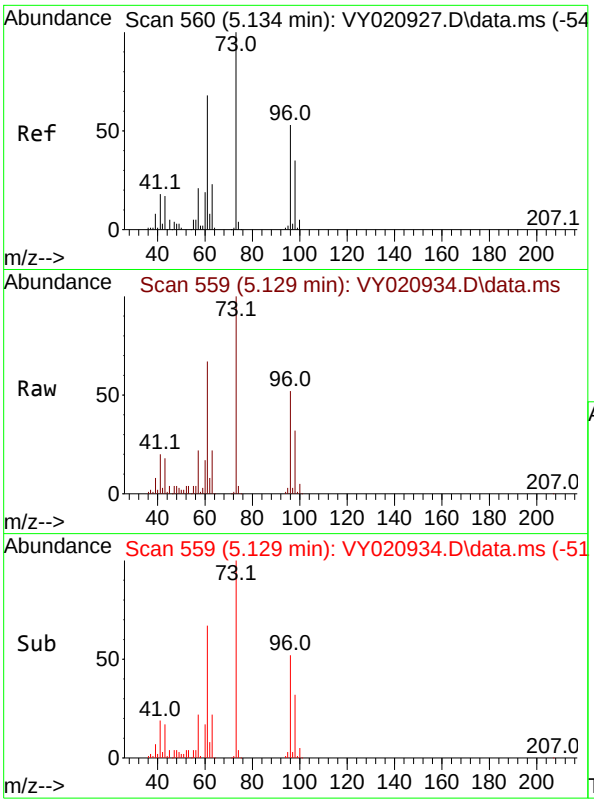




#20
Methylene Chloride
Concen: 52.792 ug/l
RT: 4.629 min Scan# 477
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 84 Resp: 105786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 112.3 | 90.3 | 135.5 |
| 51 | 34.1 | 26.6 | 39.8 |
| 86 | 64.2 | 50.3 | 75.5 |






#21
trans-1,2-Dichloroethene
Concen: 51.071 ug/l
RT: 5.129 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 96 Resp: 11148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 130.3 | 102.4 | 153.6 |
| 98 | 62.6 | 52.0 | 78.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

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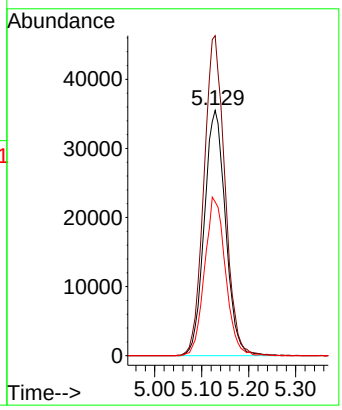
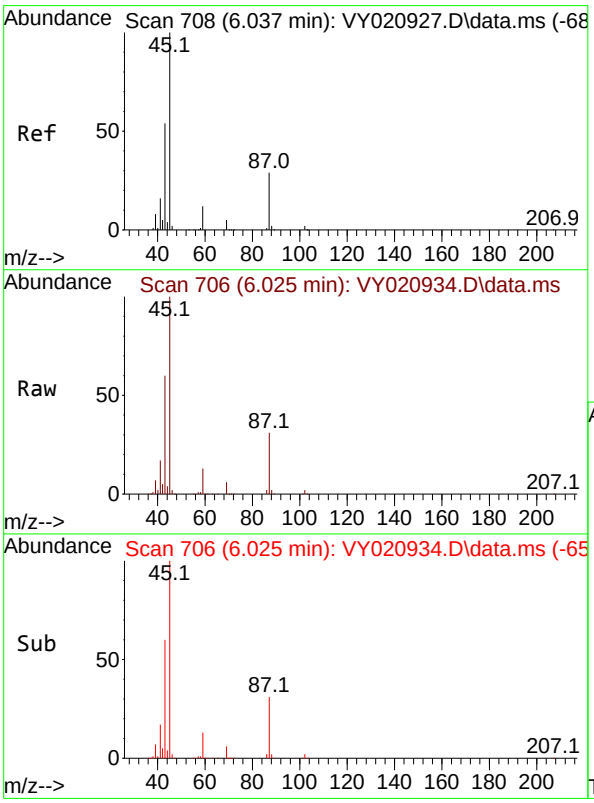
Supervised By :Mahesh Dadoda 01/27/2025

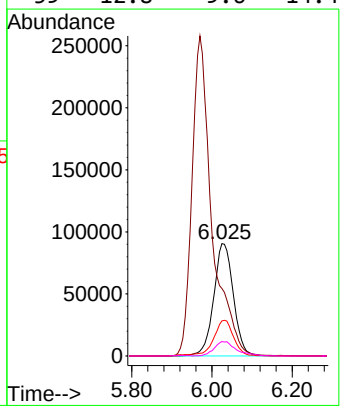


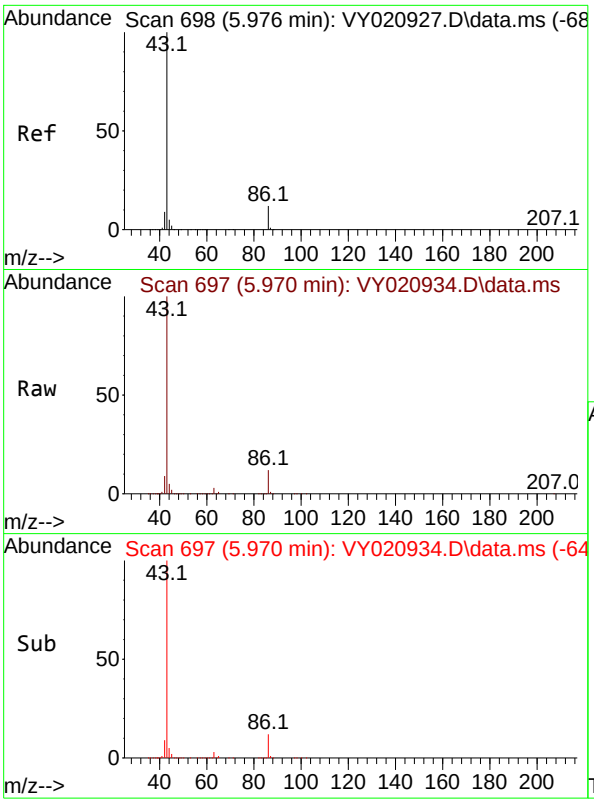




#22
Diisopropyl ether
Concen: 54.247 ug/l
RT: 6.025 min Scan# 706
Delta R.T. -0.012 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 45 Resp: 308334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.8 | 43.2 | 64.8 |
| 87 | 31.2 | 23.4 | 35.0 |
| 59 | 12.8 | 9.6 | 14.4 |






#23
Vinyl Acetate
Concen: 282.102 ug/l
RT: 5.970 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

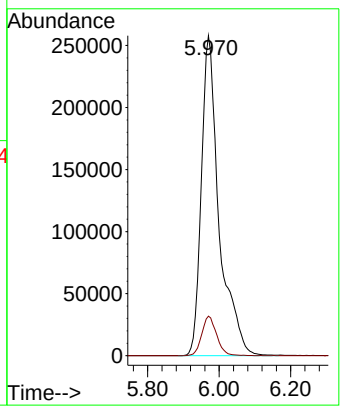
Tgt Ion: 43 Resp: 88742

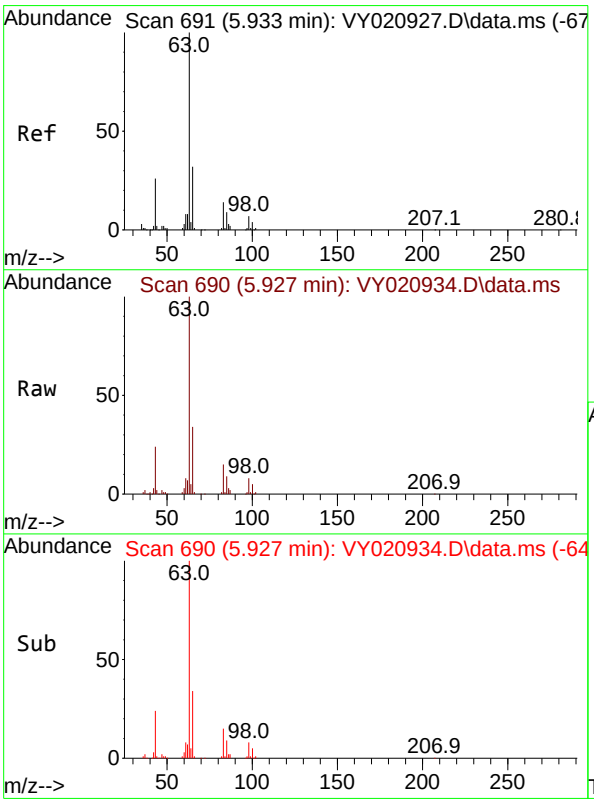
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.4 | 9.8 | 14.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

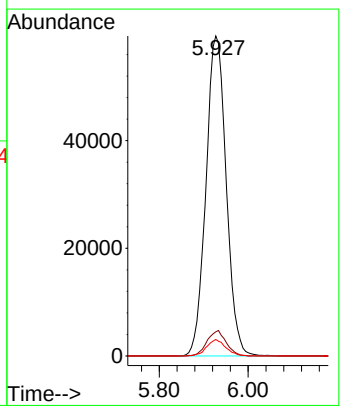


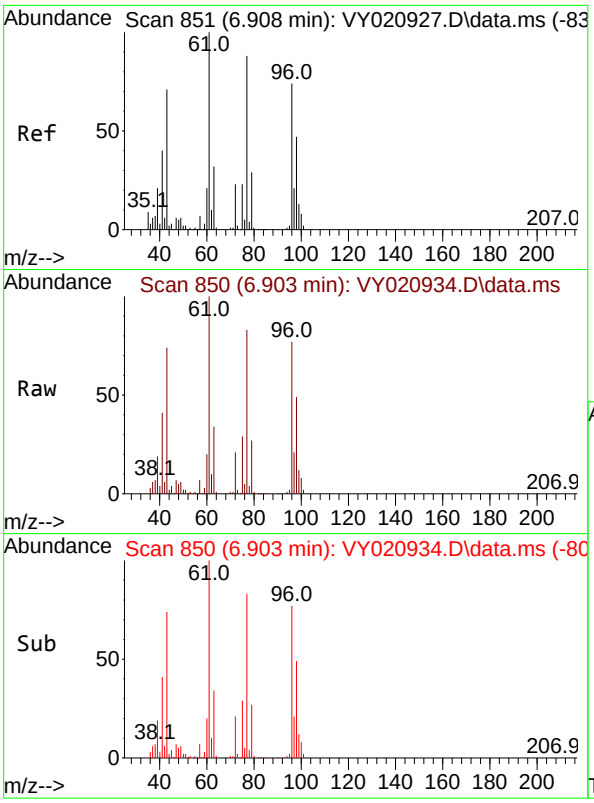




#24
1,1-Dichloroethane
Concen: 52.312 ug/l
RT: 5.927 min Scan# 690
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 63 Resp: 188482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.6 | 3.7 | 11.1 |
| 100 | 5.2 | 2.3 | 6.8 |






#25
2-Butanone
Concen: 282.706 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

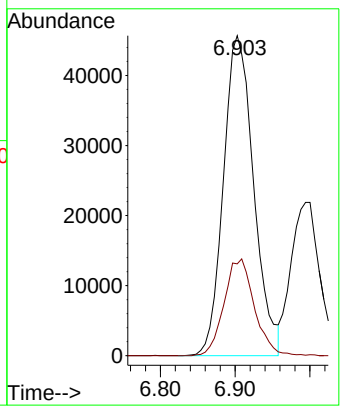
Tgt Ion: 43 Resp: 12902

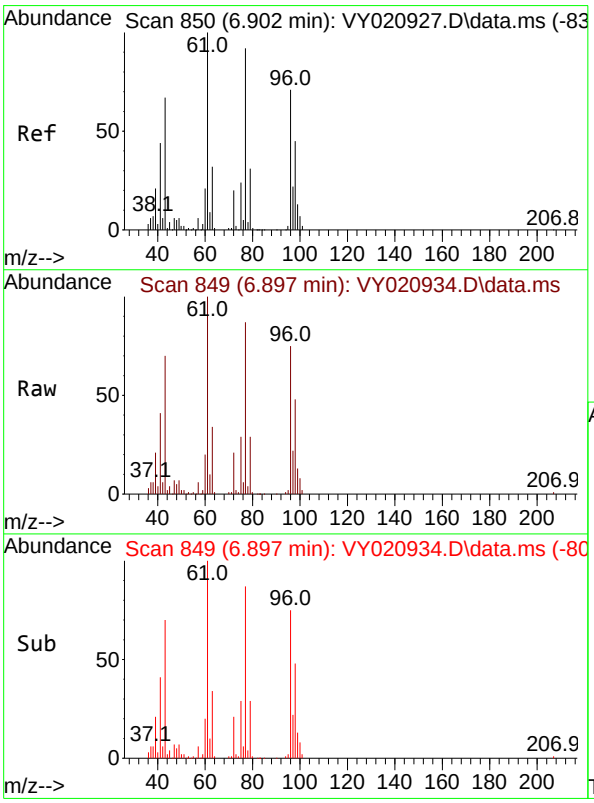
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.7 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

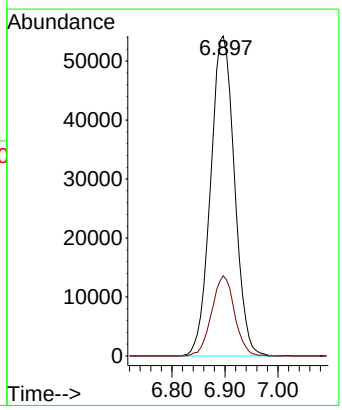


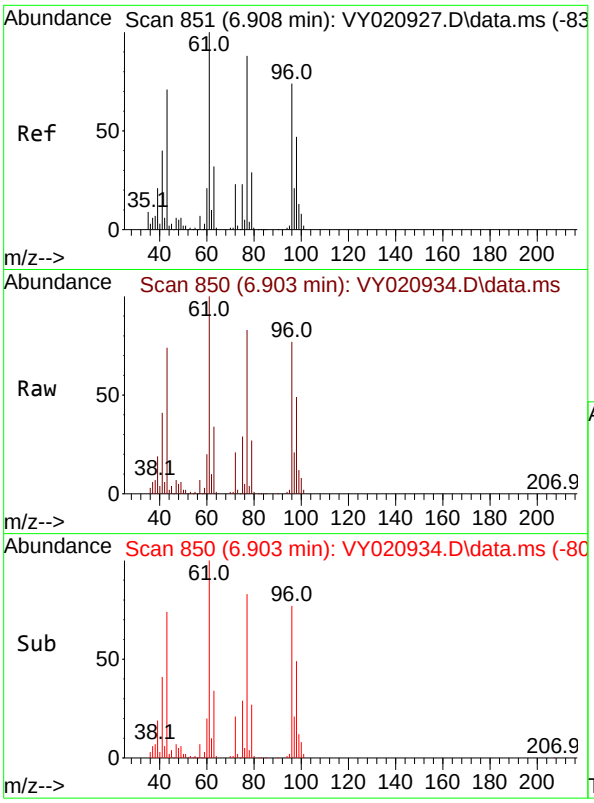




#26
2,2-Dichloropropane
Concen: 47.873 ug/l
RT: 6.897 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 77 Resp: 169896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.0 | 11.7 | 35.1 |






#27
cis-1,2-Dichloroethene
Concen: 52.825 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

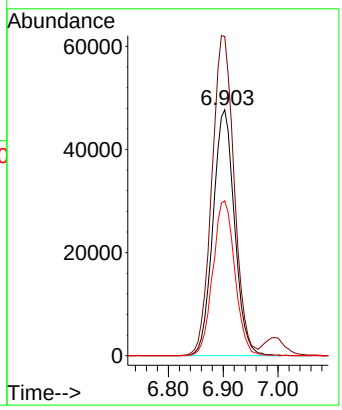
Tgt Ion: 96 Resp: 13013

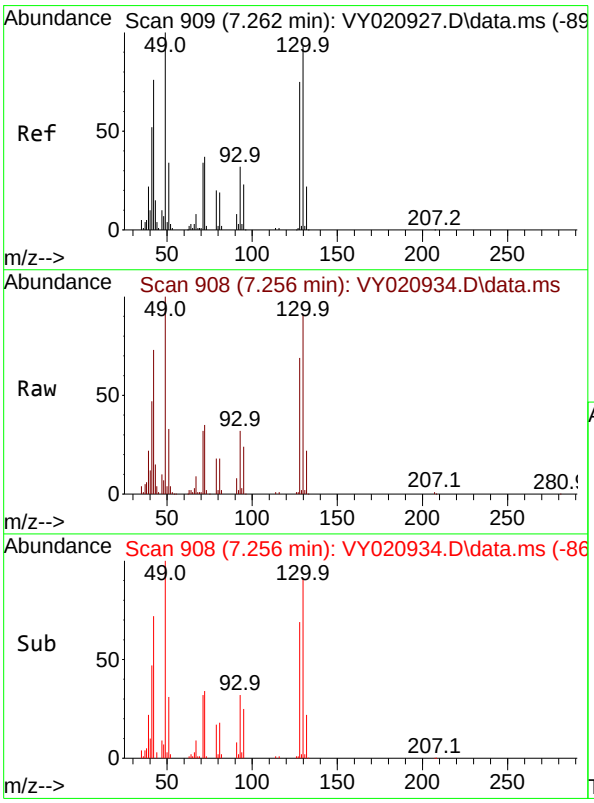
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 134.8 | 0.0 | 275.2 |
| 98 | 64.4 | 0.0 | 129.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

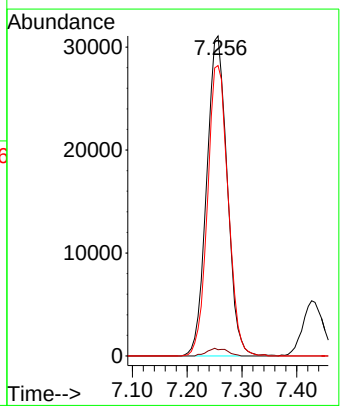


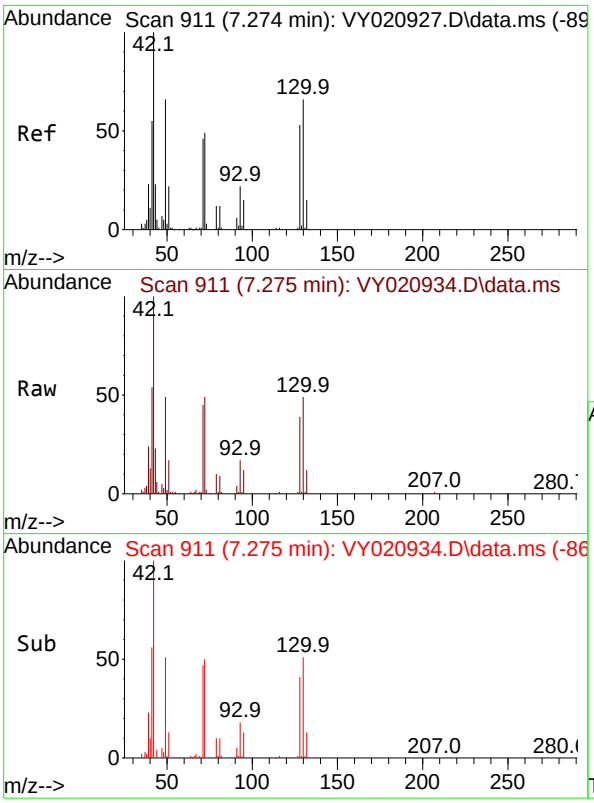




#28
Bromochloromethane
Concen: 55.587 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 49 Resp: 80606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.4 | 0.0 | 4.6 |
| 130 | 91.1 | 72.6 | 109.0 |






#29
Tetrahydrofuran
Concen: 287.016 ug/l
RT: 7.275 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

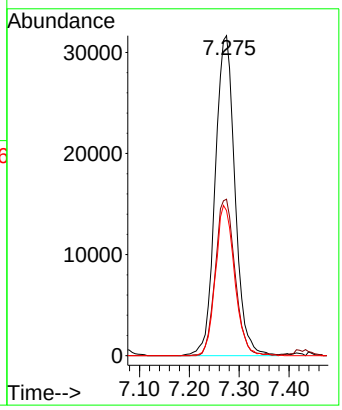
Tgt Ion: 42 Resp: 8730

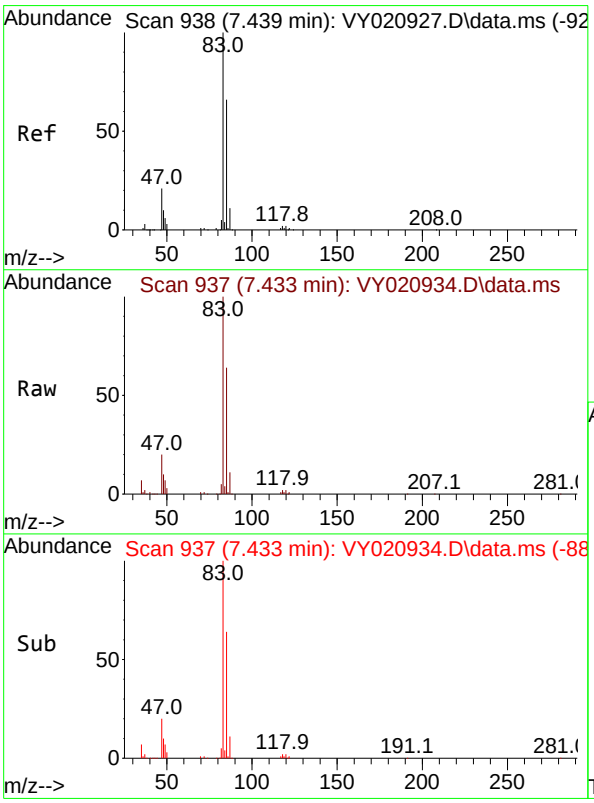
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.7 | 38.8 | 58.2 |
| 71 | 45.5 | 36.4 | 54.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

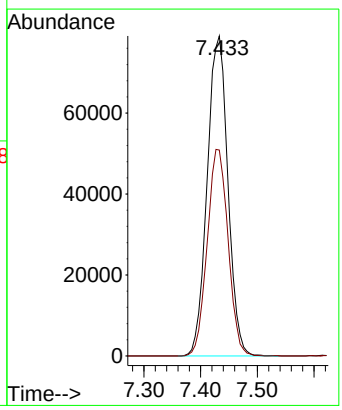


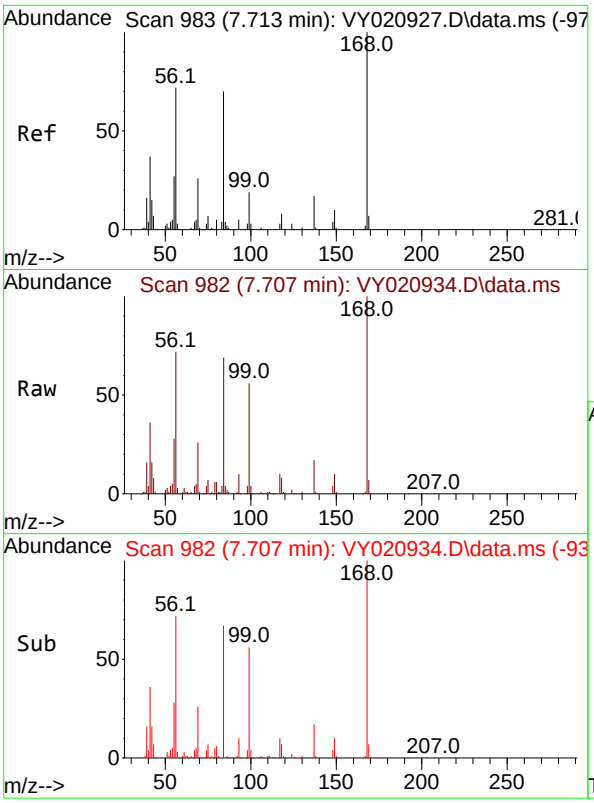




#30
Chloroform
Concen: 52.547 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 83 Resp: 200383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.4 | 53.0 | 79.4 |






#31
Cyclohexane
Concen: 47.247 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

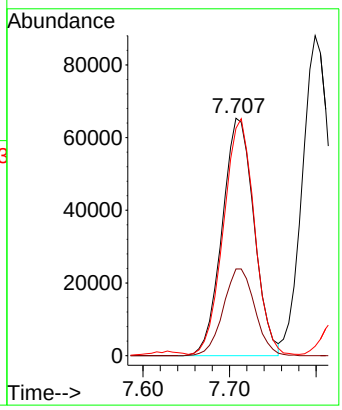
Tgt Ion: 56 Resp: 16731

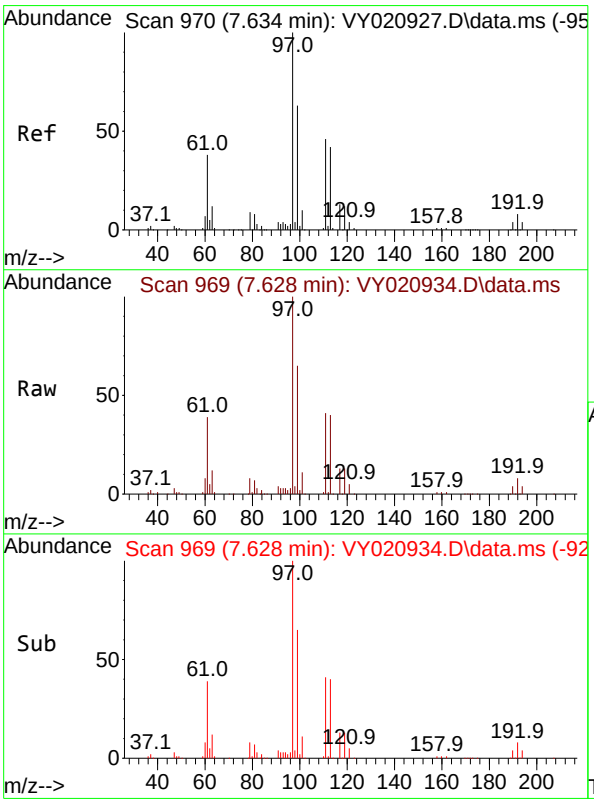
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 36.5 | 28.7 | 43.1 |
| 84 | 94.4 | 77.4 | 116.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

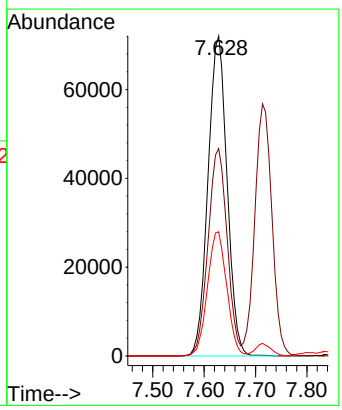


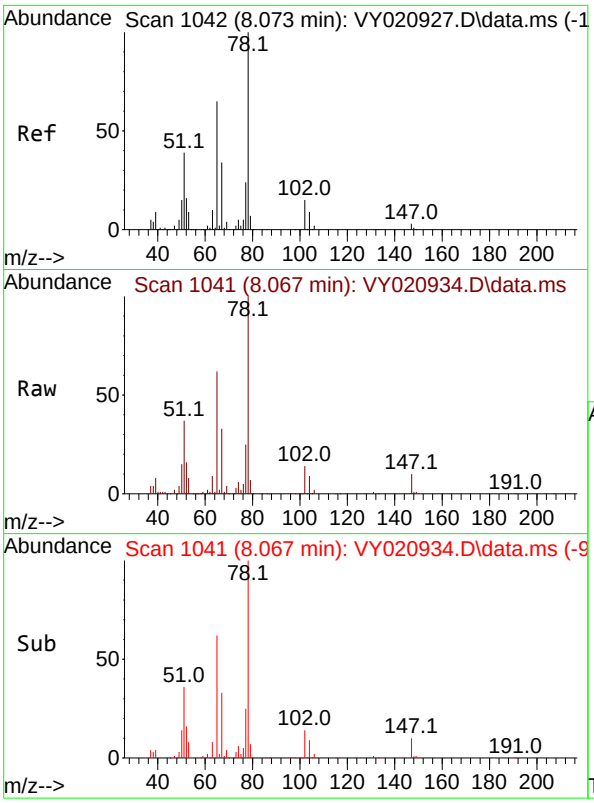




#32
1,1,1-Trichloroethane
Concen: 50.150 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 97 Resp: 185498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.2 | 51.7 | 77.5 |
| 61 | 39.4 | 30.8 | 46.2 |






#33
1,2-Dichloroethane-d4
Concen: 51.304 ug/l
RT: 8.067 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 65 Resp: 10202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.4 | 0.0 | 105.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
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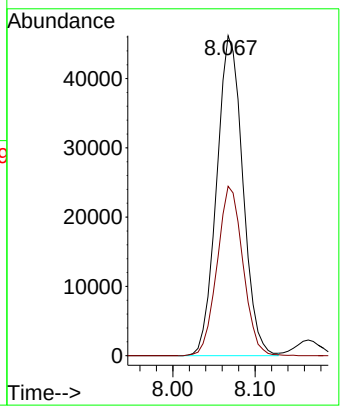
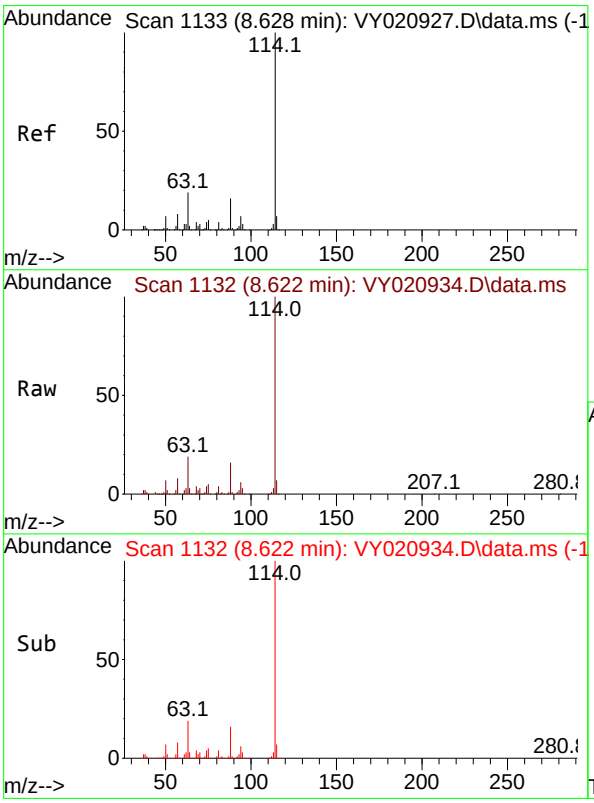
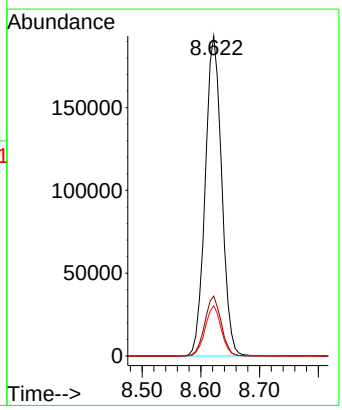


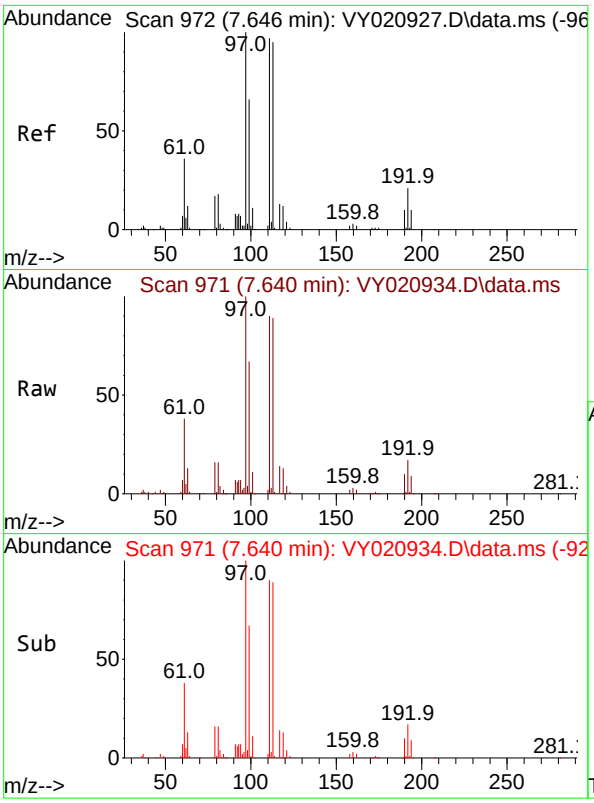




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:114 Resp: 375923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.7 | 0.0 | 38.4 |
| 88 | 15.7 | 0.0 | 31.6 |






#35
Dibromofluoromethane
Concen: 48.820 ug/l
RT: 7.640 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:113 Resp: 10535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 82.3 | 123.5 |
| 192 | 21.4 | 17.4 | 26.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
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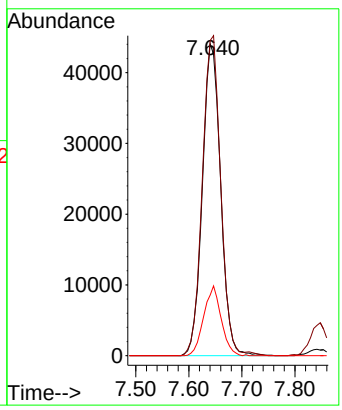
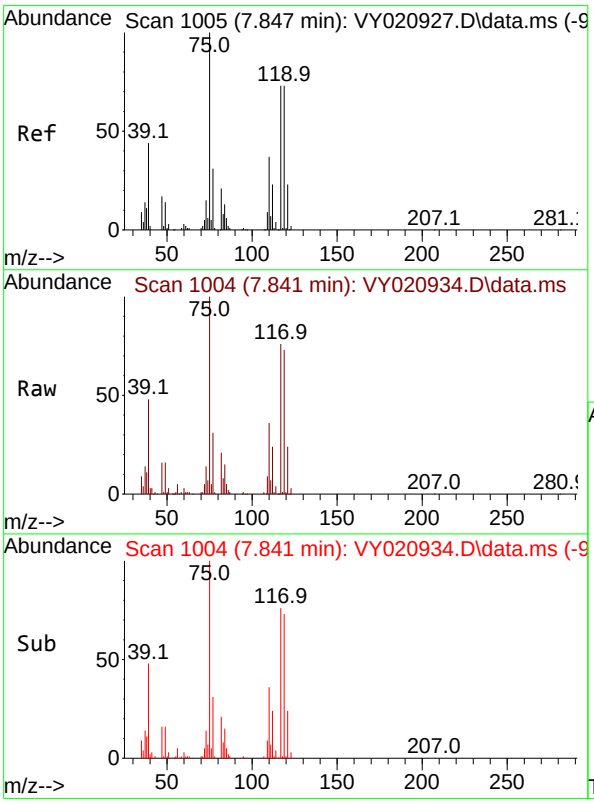
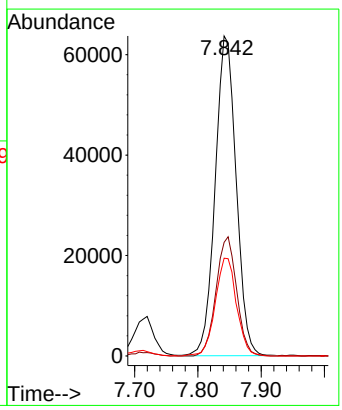


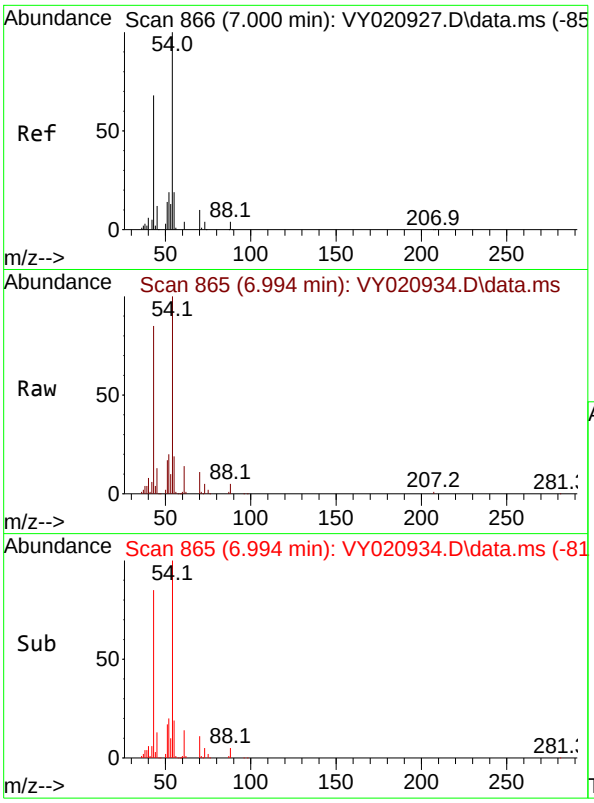




#36
1,1-Dichloropropene
Concen: 48.632 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 75 Resp: 146535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.6 | 18.5 | 55.5 |
| 77 | 31.0 | 25.0 | 37.4 |






#37
Ethyl Acetate
Concen: 52.368 ug/l
RT: 6.994 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

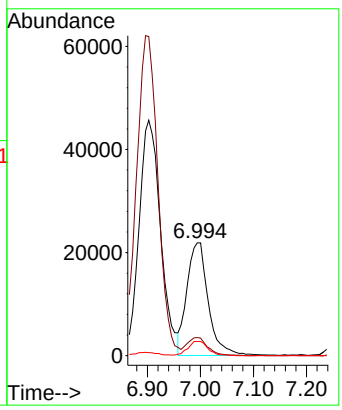
Tgt Ion: 43 Resp: 6122

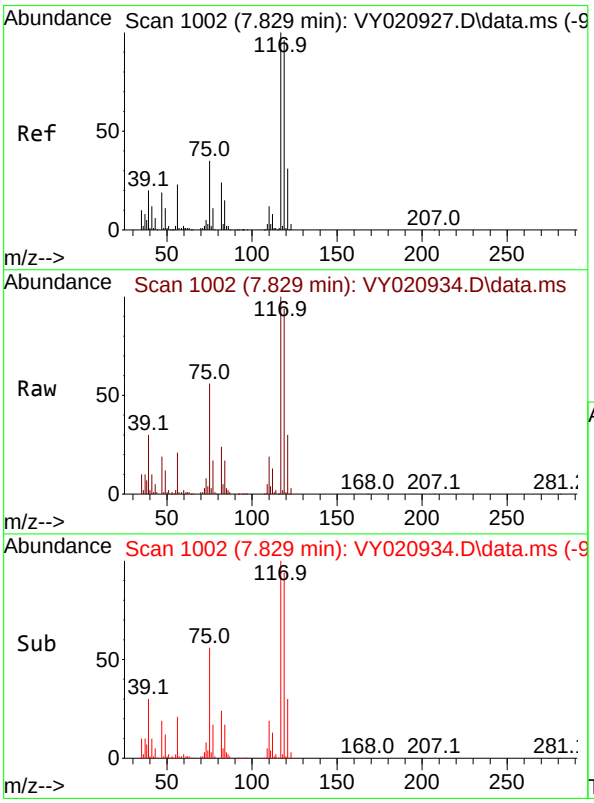
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.5 | 12.1 | 18.1 |
| 70 | 12.0 | 9.5 | 14.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

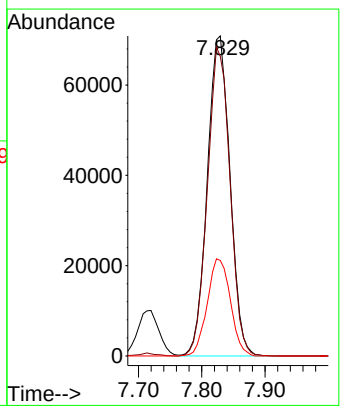


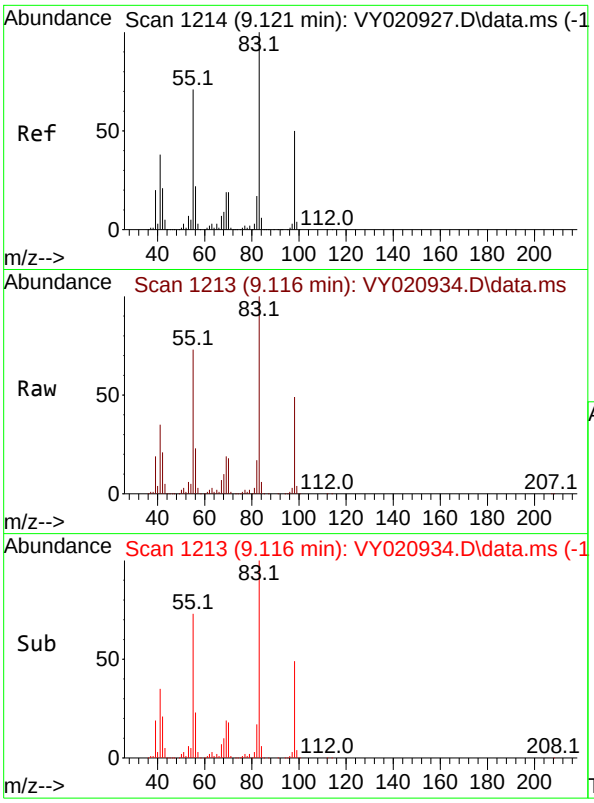




#38
Carbon Tetrachloride
Concen: 48.644 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:117 Resp: 176755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.6 | 76.5 | 114.7 |
| 121 | 29.8 | 25.0 | 37.4 |






#39
Methylcyclohexane
Concen: 49.174 ug/l
RT: 9.116 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

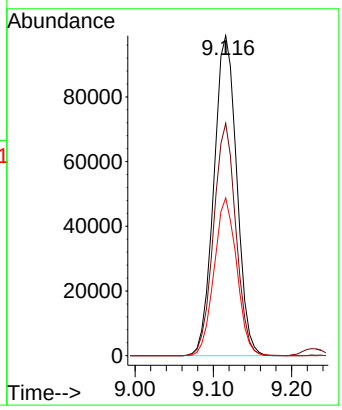
Tgt Ion: 83 Resp: 20058

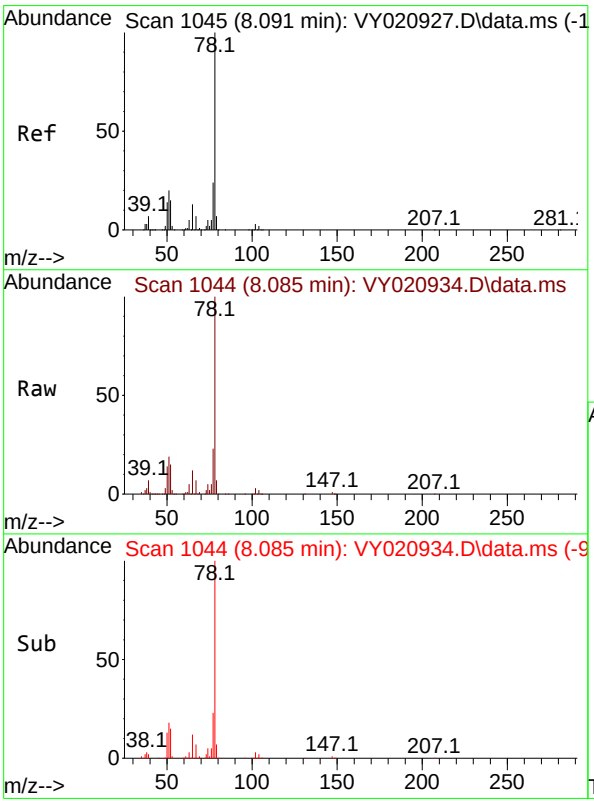
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.6 | 57.0 | 85.4 |
| 98 | 49.3 | 40.1 | 60.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

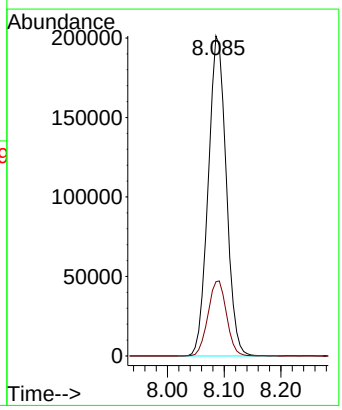


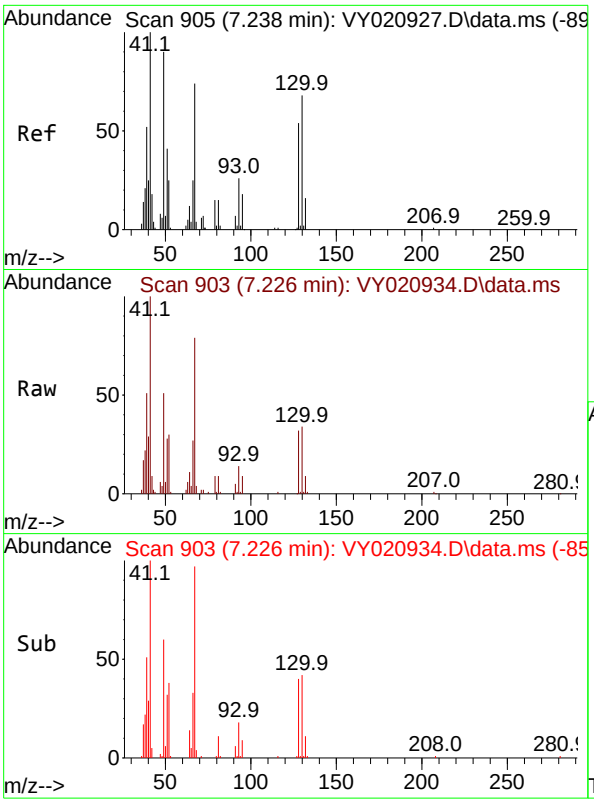




#40
Benzene
Concen: 50.258 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 78 Resp: 444264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.2 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 47.411 ug/l
RT: 7.226 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

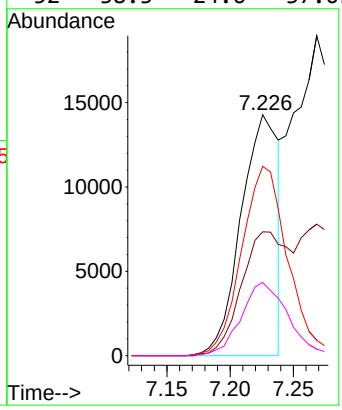
Tgt Ion: 41 Resp: 2927

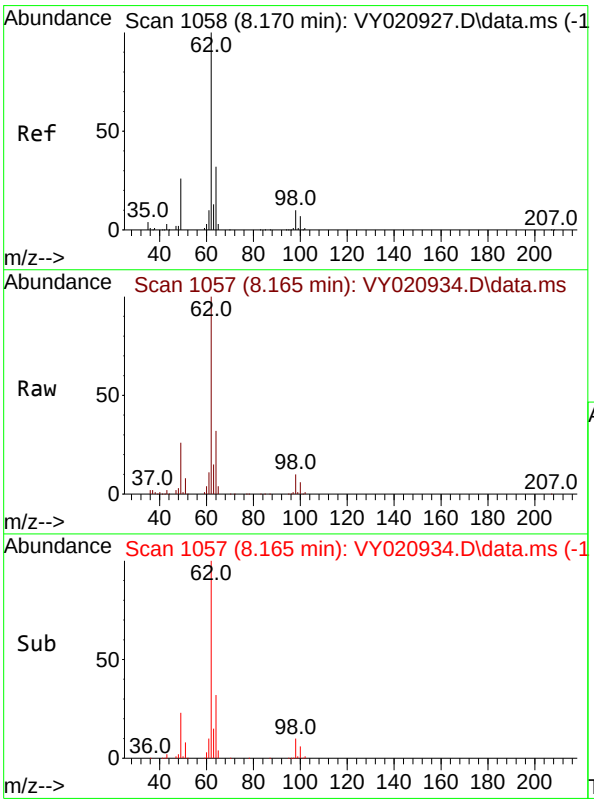
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.3 | 46.4 | 69.6 |
| 67 | 97.5 | 66.7 | 100.1 |
| 52 | 38.3 | 24.6 | 37.0# |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

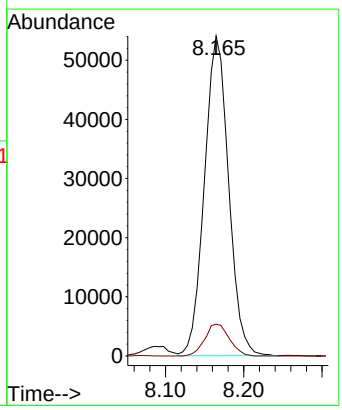


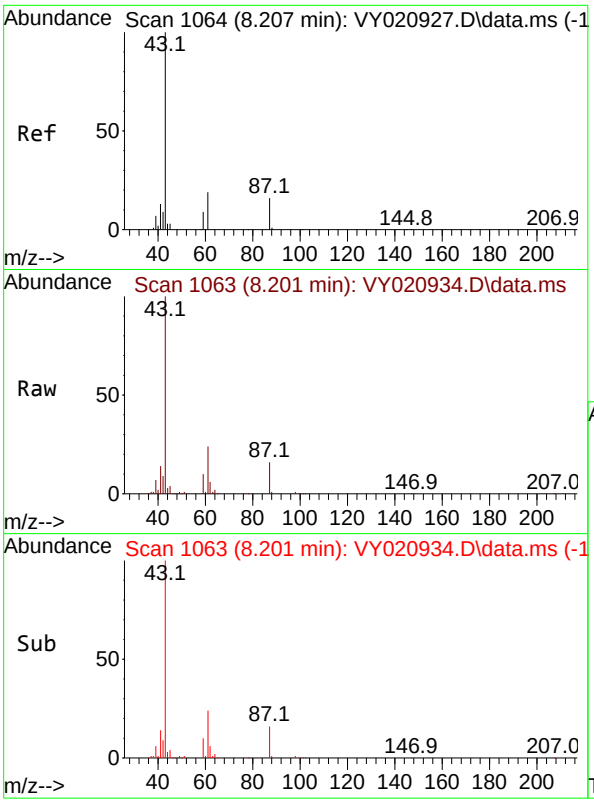




#42
1,2-Dichloroethane
Concen: 52.669 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 62 Resp: 115847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.1 | 0.0 | 19.8 |






#43
Isopropyl Acetate
Concen: 55.099 ug/l
RT: 8.201 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 43 Resp: 12214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 32.1 | 26.0 | 39.0 |
| 87 | 15.9 | 12.4 | 18.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
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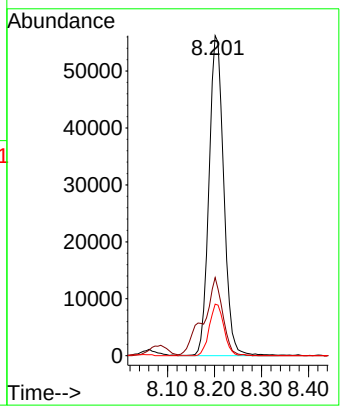
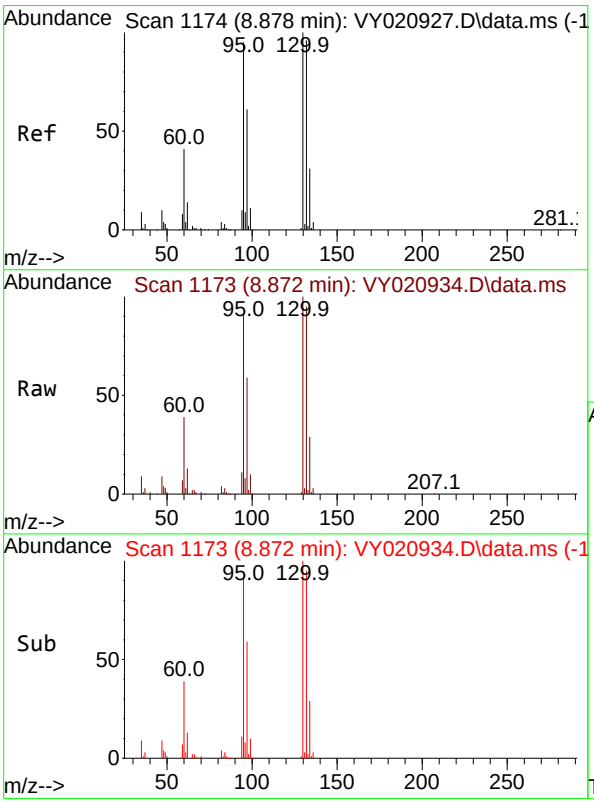
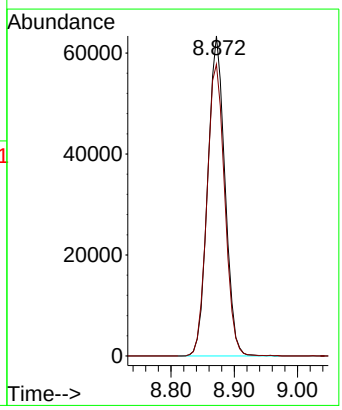


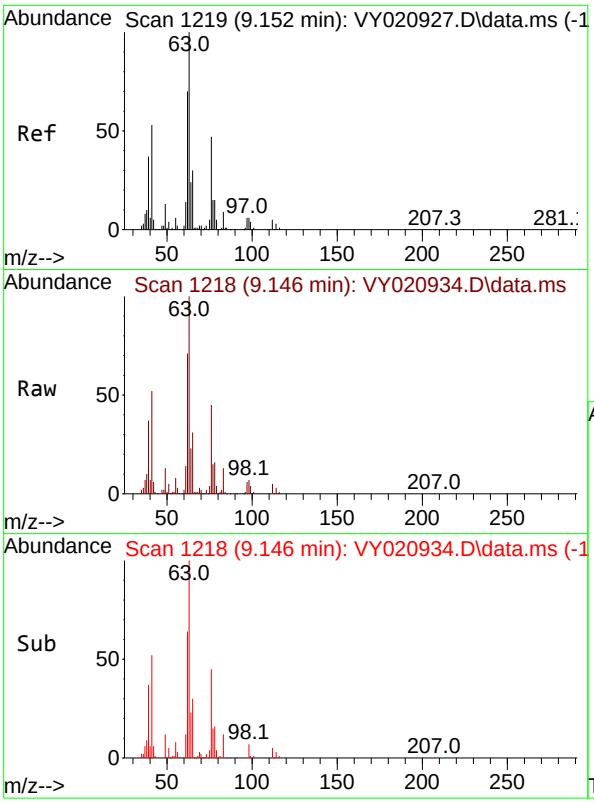




#44
Trichloroethene
Concen: 49.919 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:130 Resp: 119881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 91.2 | 0.0 | 189.4 |






#45
1,2-Dichloropropane
Concen: 52.655 ug/l
RT: 9.146 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 63 Resp: 10274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.7 | 23.9 | 35.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
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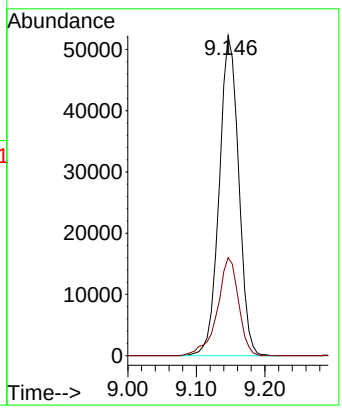
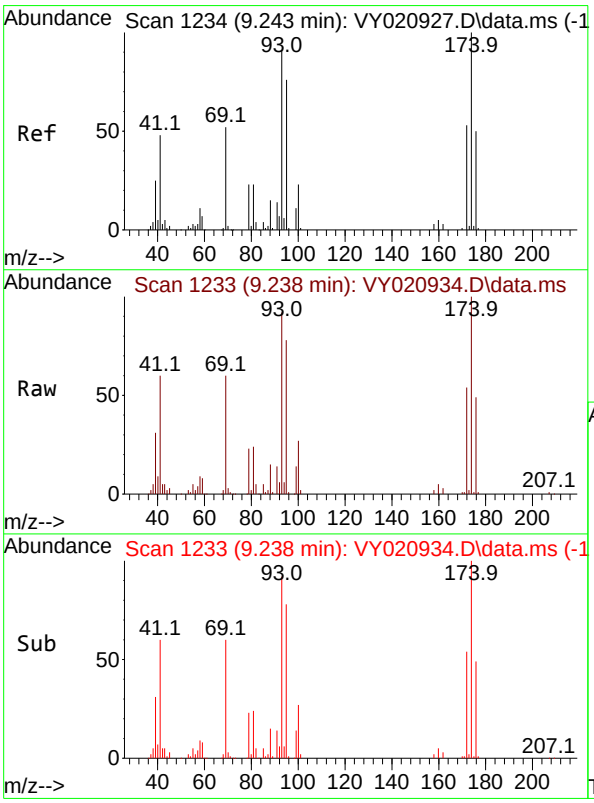
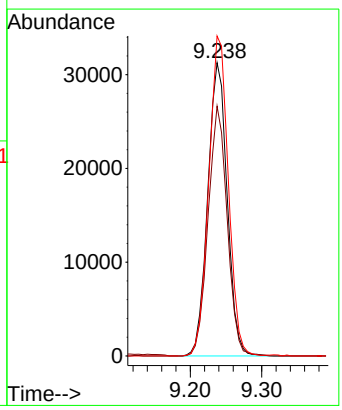


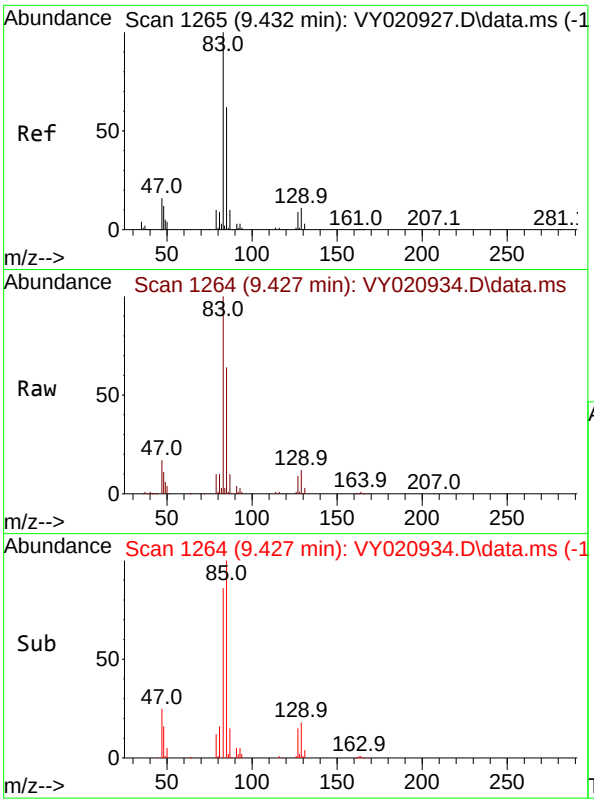




#46
Dibromomethane
Concen: 53.229 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 93 Resp: 59047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.7 | 66.2 | 99.2 |
| 174 | 109.9 | 87.0 | 130.4 |






#47
Bromodichloromethane
Concen: 51.925 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 83 Resp: 15326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.5 | 49.3 | 73.9 |
| 127 | 9.2 | 7.4 | 11.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
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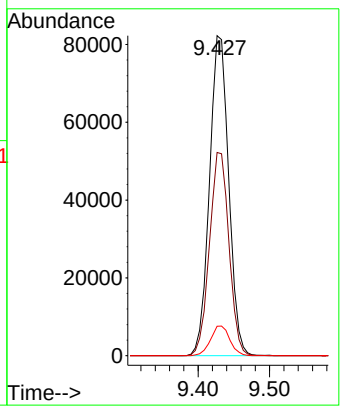
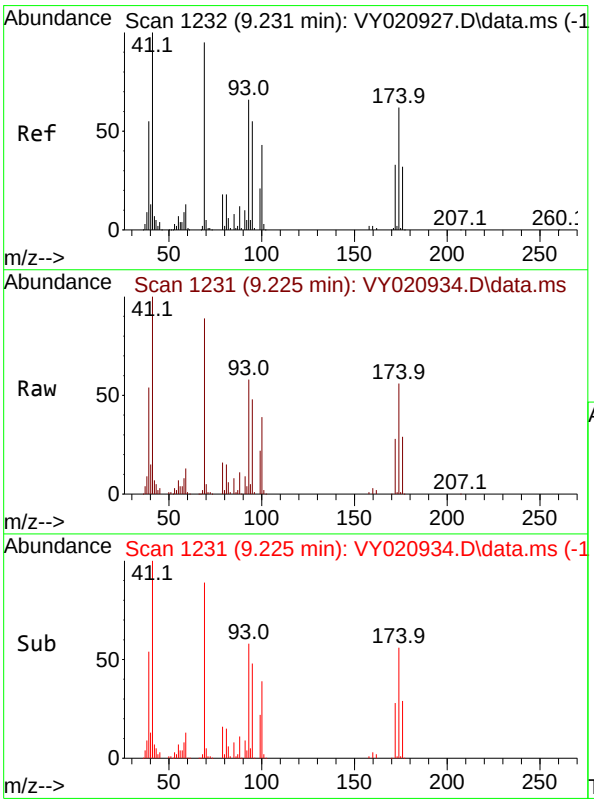
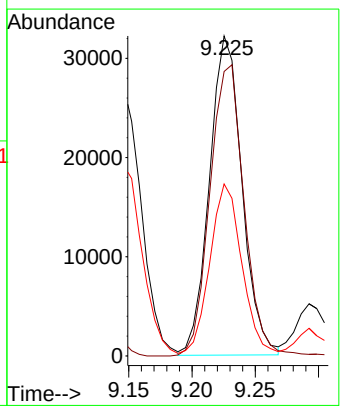


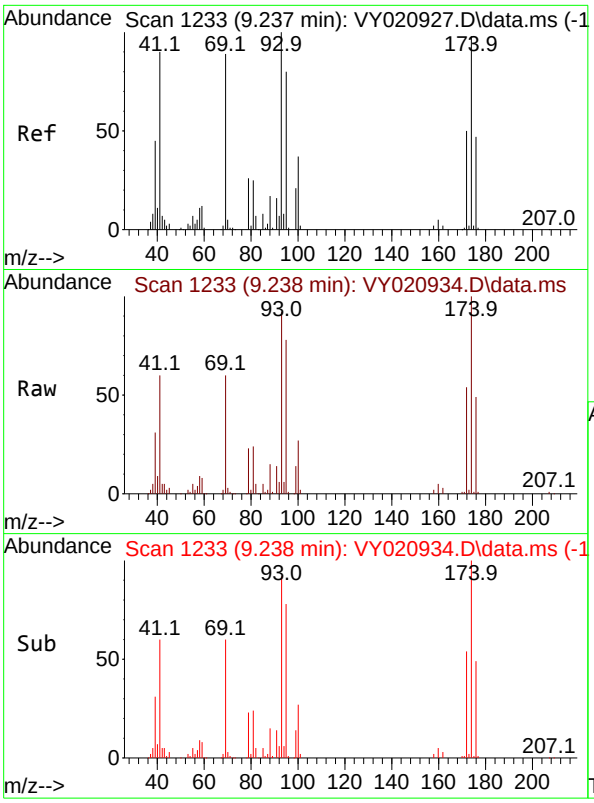




#48
Methyl methacrylate
Concen: 55.161 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 41 Resp: 57683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 95.8 | 77.0 | 115.4 |
| 39 | 51.8 | 41.1 | 61.7 |






#49
1,4-Dioxane
Concen: 1125.314 ug/l
RT: 9.238 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

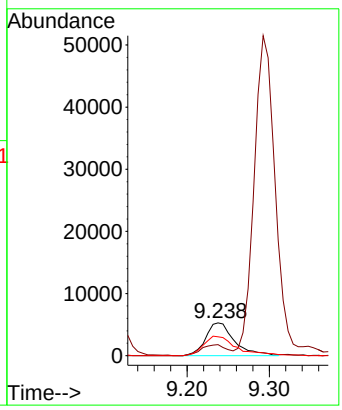
Tgt Ion: 88 Resp: 1285

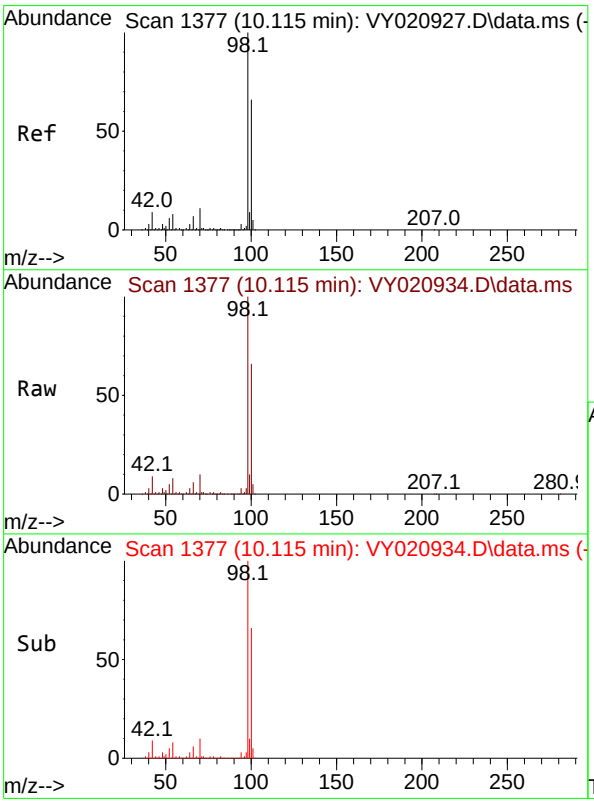
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.0 | 23.1 | 34.7 |
| 58 | 68.9 | 49.0 | 73.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

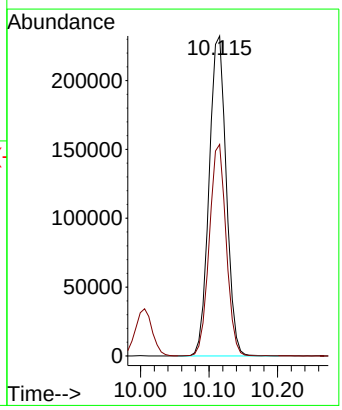


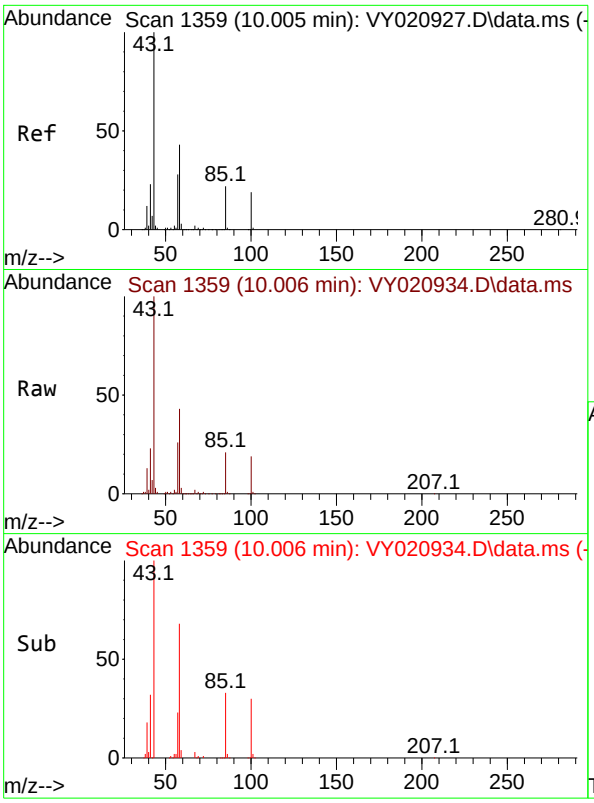




#50
Toluene-d8
Concen: 48.274 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 98 Resp: 404094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.3 | 78.5 |






#51
4-Methyl-2-Pentanone
Concen: 279.337 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

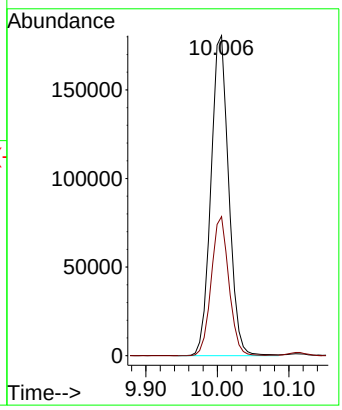
Tgt Ion: 43 Resp: 31223

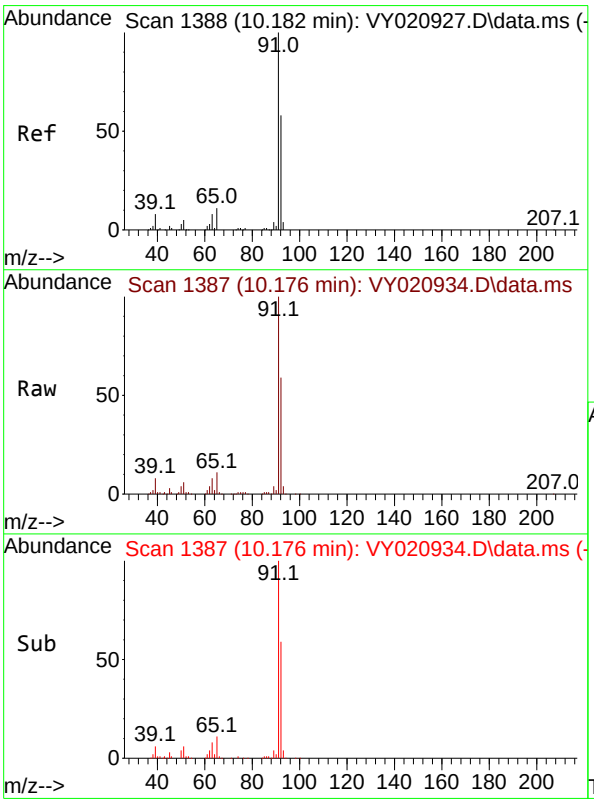
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.9 | 33.7 | 50.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

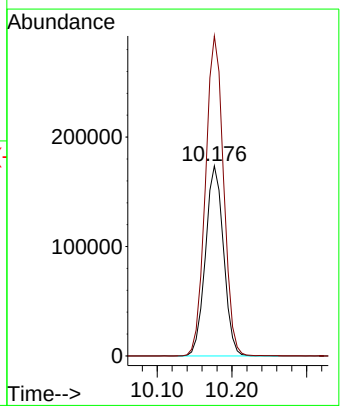


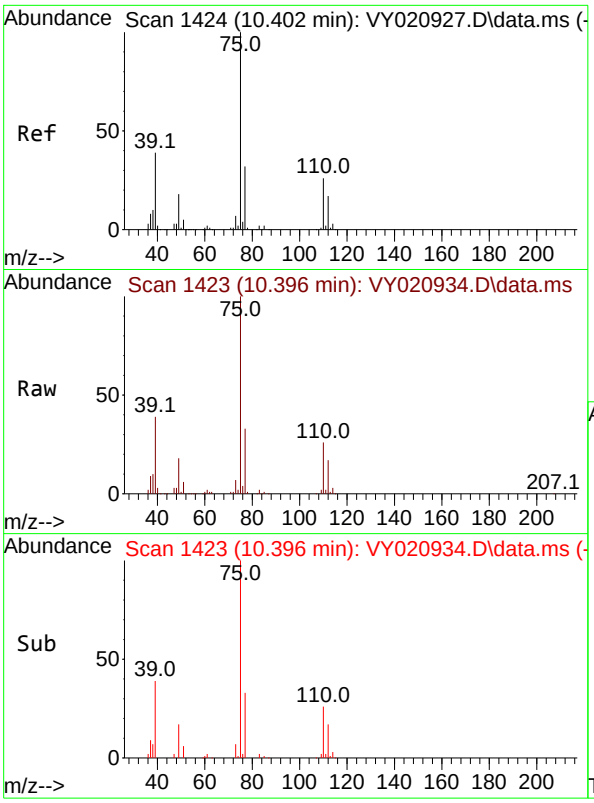




#52
Toluene
Concen: 51.221 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 92 Resp: 291201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.0 | 137.3 | 205.9 |






#53
t-1,3-Dichloropropene
Concen: 53.338 ug/l
RT: 10.396 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 75 Resp: 144349

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

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
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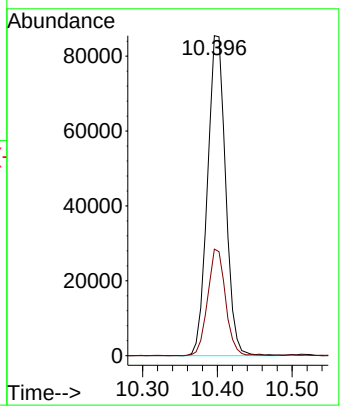
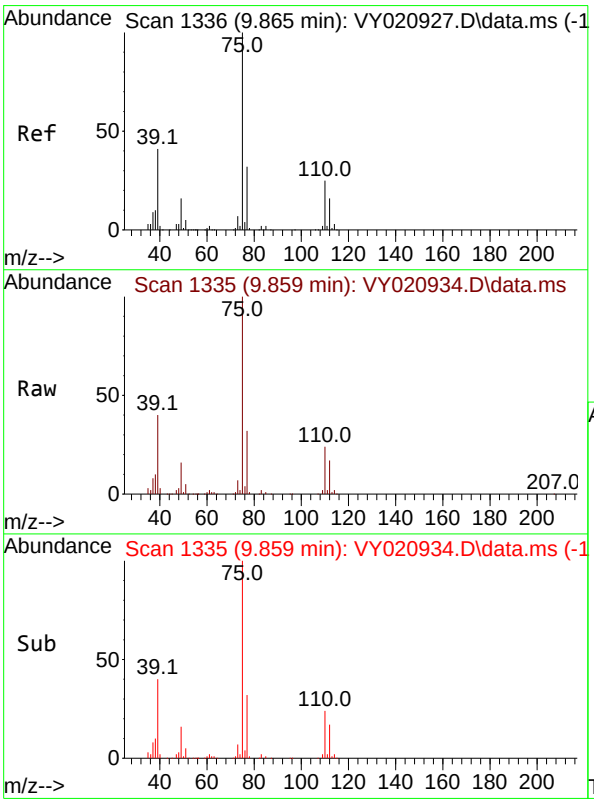
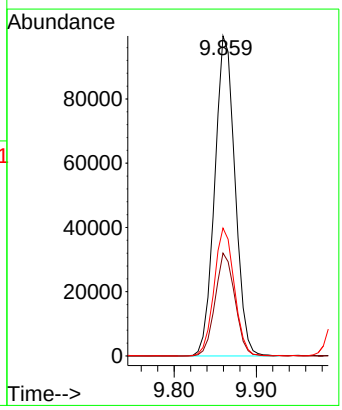


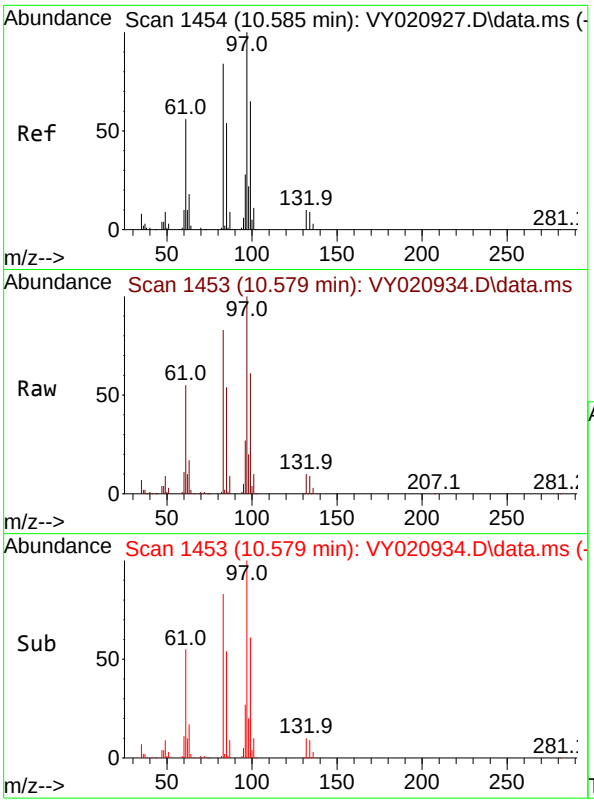




#54
cis-1,3-Dichloropropene
Concen: 52.755 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 75 Resp: 170478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.2 | 25.7 | 38.5 |
| 39 | 40.0 | 32.8 | 49.2 |

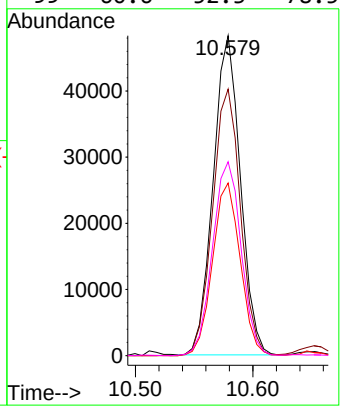





#55
1,1,2-Trichloroethane
Concen: 51.855 ug/l
RT: 10.579 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 97 Resp: 7775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 83.6 | 67.0 | 100.6 |
| 85 | 54.1 | 43.1 | 64.7 |
| 99 | 60.6 | 52.3 | 78.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
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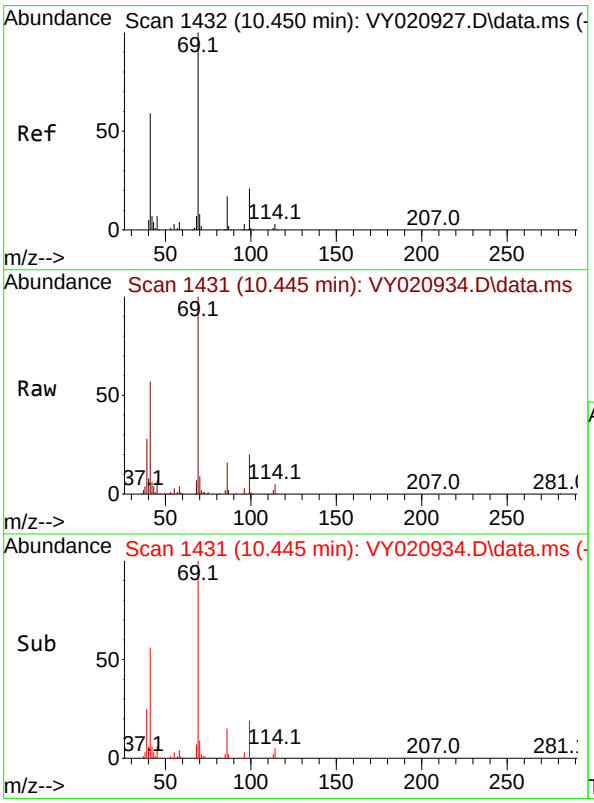
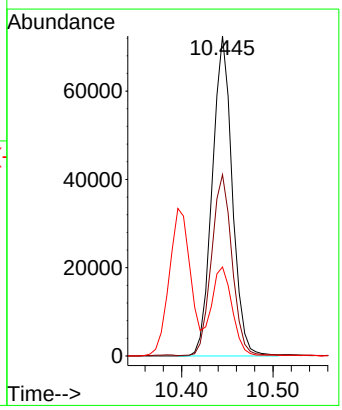
Supervised By :Mahesh Dadoda 01/27/2025

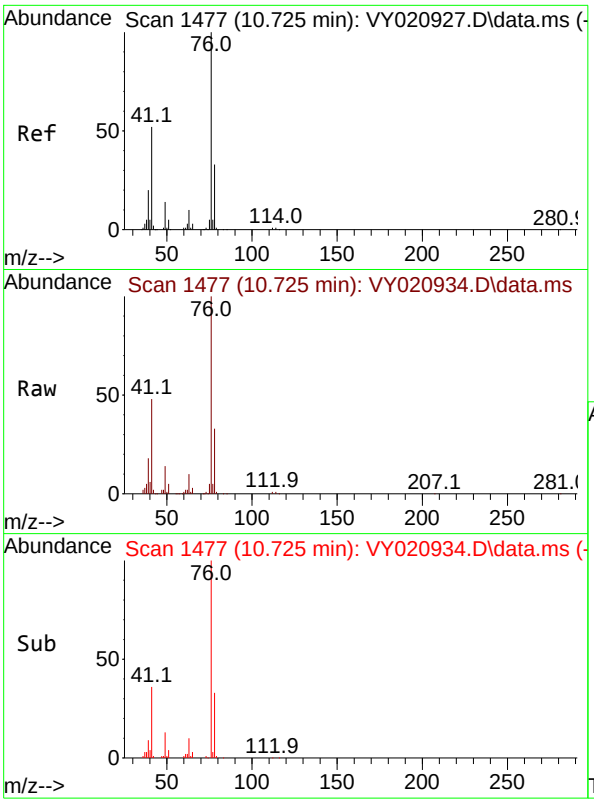



#56
Ethyl methacrylate
Concen: 56.063 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 69 Resp: 110172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 57.9 | 46.6 | 70.0 |
| 39 | 29.3 | 23.9 | 35.9 |






#57
1,3-Dichloropropane
Concen: 52.847 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 76 Resp: 134618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.4 | 26.2 | 39.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
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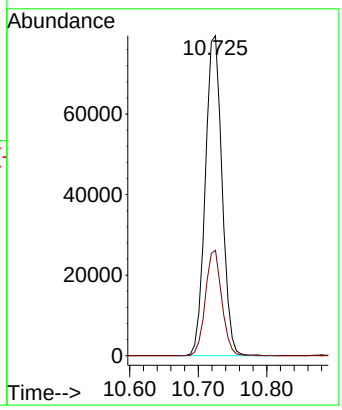
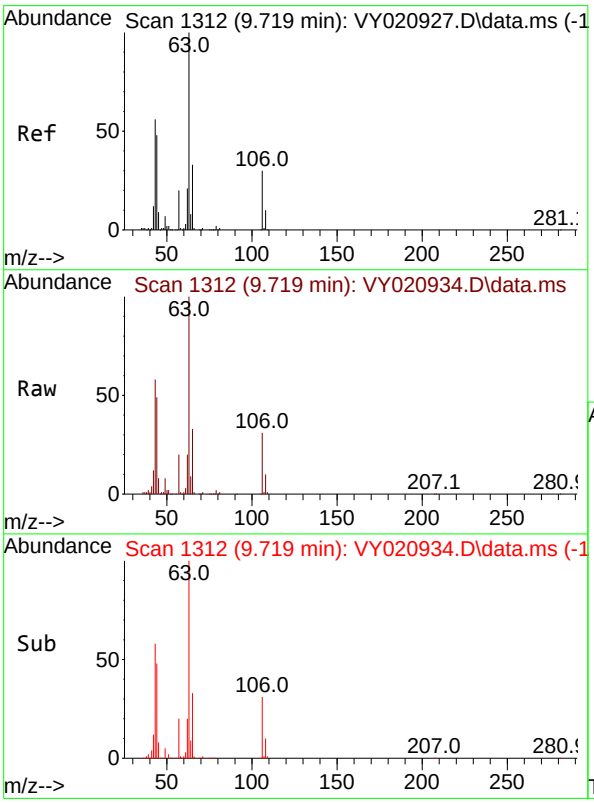
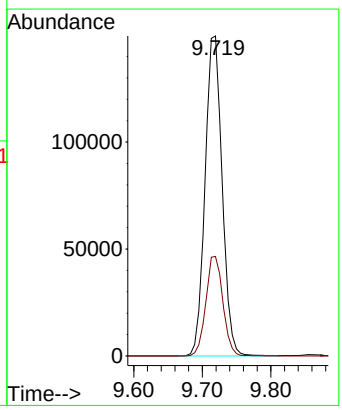


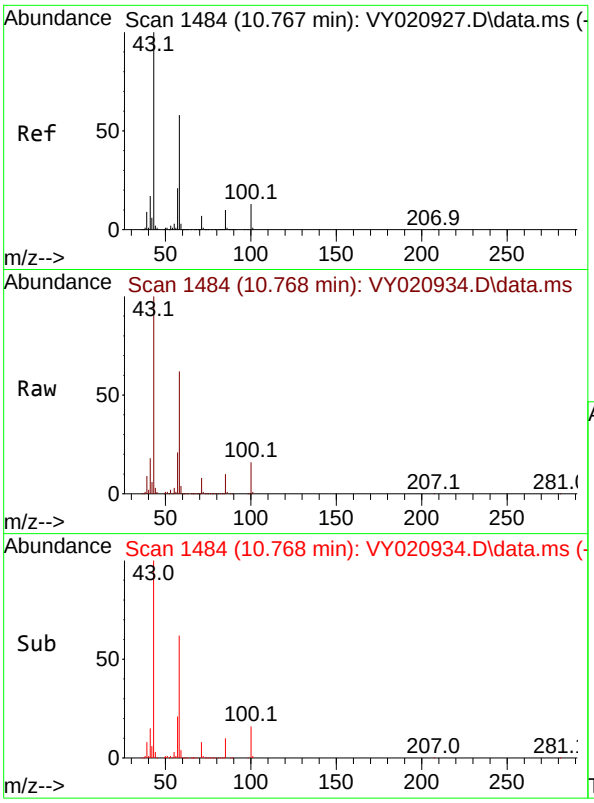




#58
2-Chloroethyl Vinyl ether
Concen: 290.780 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 63 Resp: 259350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 31.0 | 24.7 | 37.1 |






#59
2-Hexanone
Concen: 286.705 ug/l
RT: 10.768 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 43 Resp: 20607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.9 | 29.9 | 89.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
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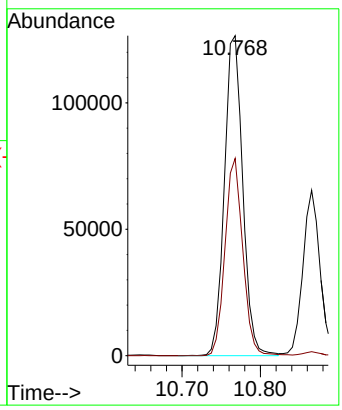
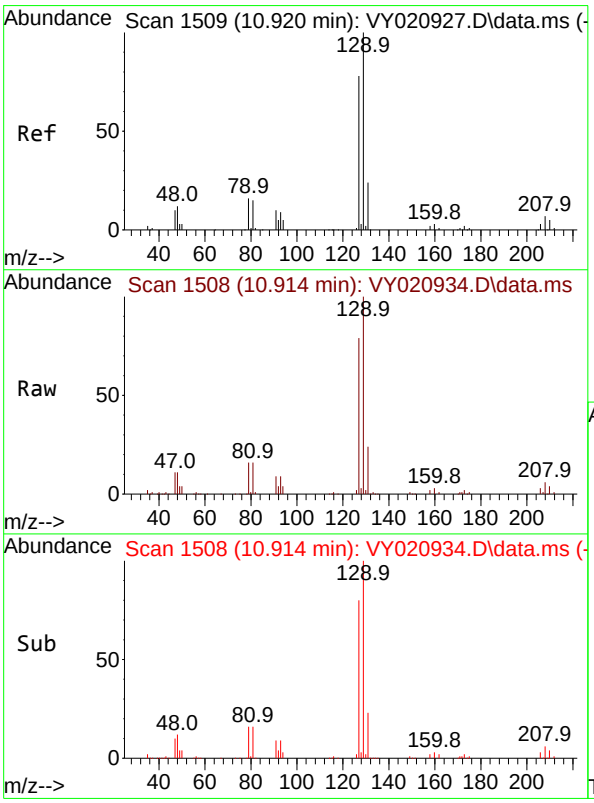
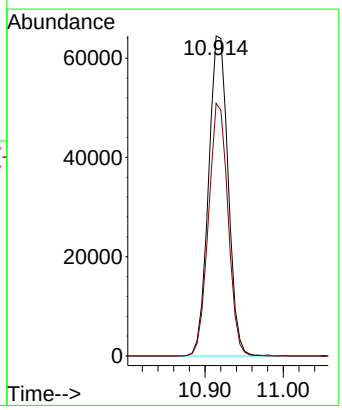


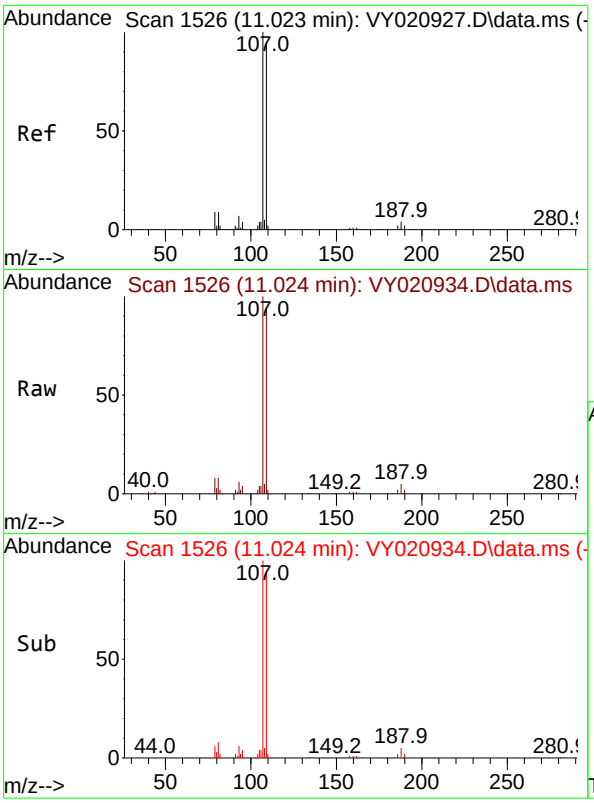




#60
Dibromochloromethane
Concen: 52.885 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:129 Resp: 111605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.6 | 39.2 | 117.6 |






#61
1,2-Dibromoethane
Concen: 53.174 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:107 Resp: 7626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.1 | 76.3 | 114.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
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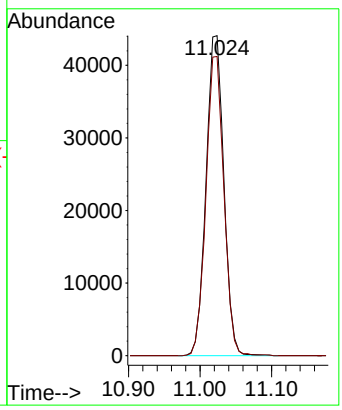
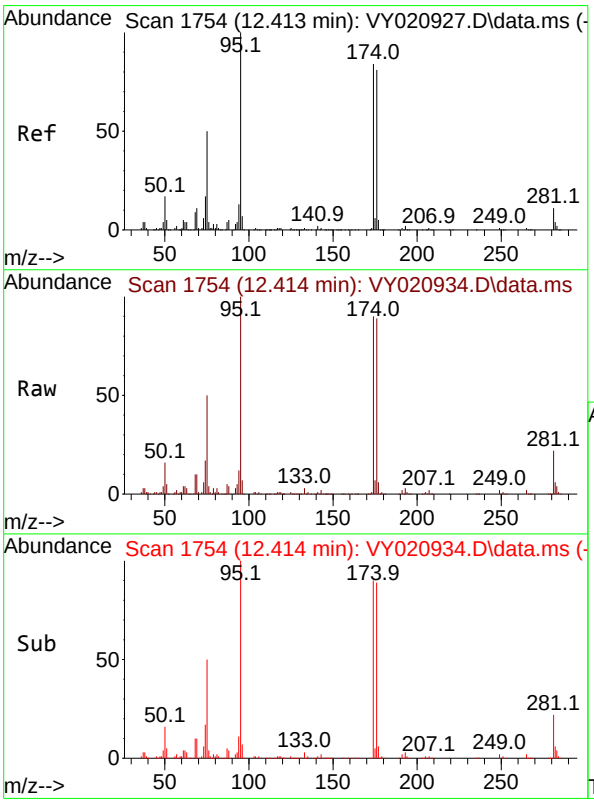
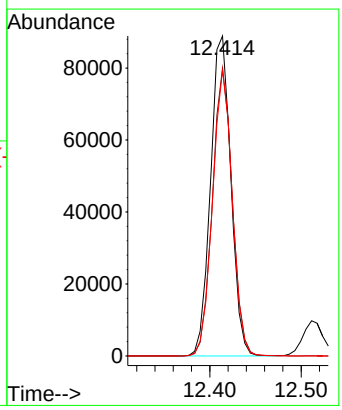


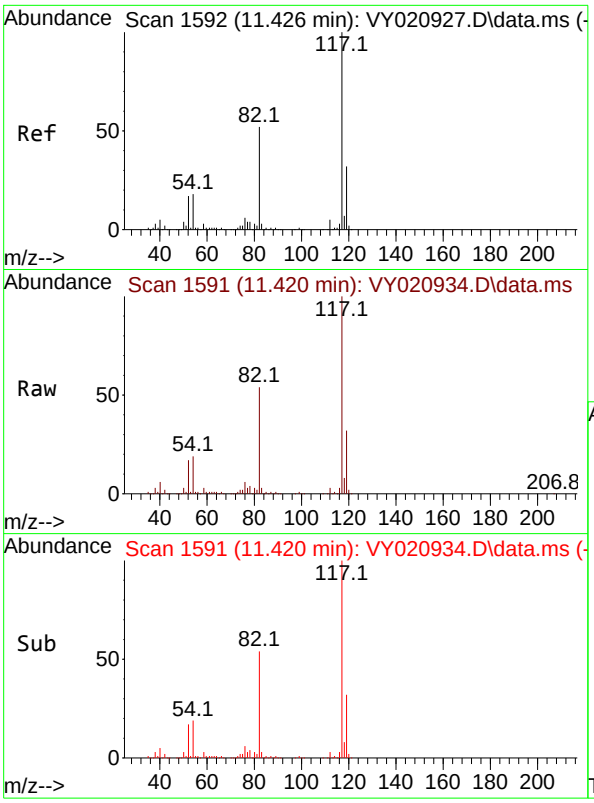




#62
4-Bromofluorobenzene
Concen: 49.313 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 95 Resp: 137380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 87.7 | 0.0 | 177.4 |
| 176 | 86.5 | 0.0 | 172.2 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:117 Resp: 32247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.9 | 41.8 | 62.8 |
| 119 | 32.1 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
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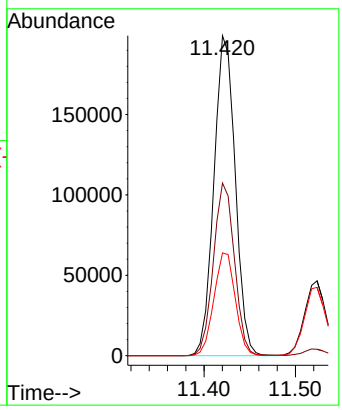
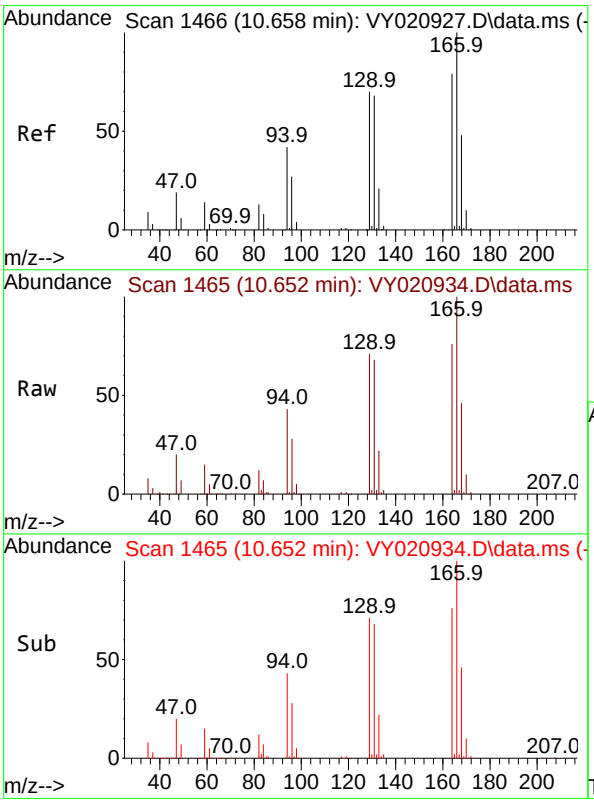
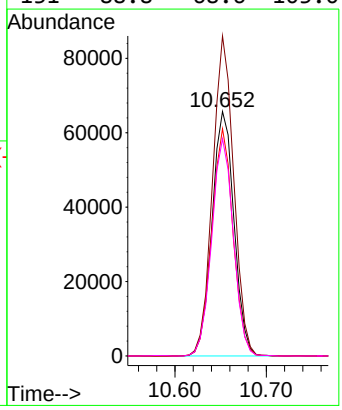


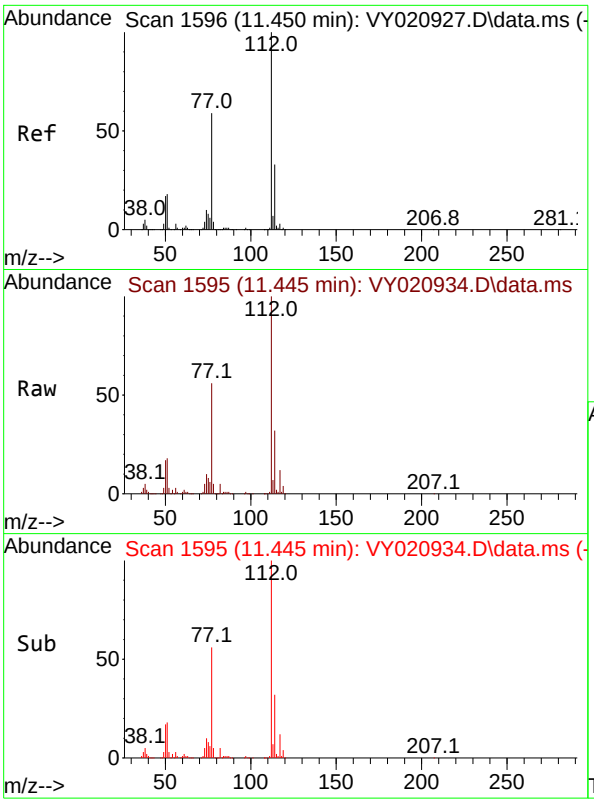




#64
Tetrachloroethene
Concen: 48.963 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:164 Resp: 109879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 130.9 | 101.0 | 151.6 |
| 129 | 92.9 | 70.8 | 106.2 |
| 131 | 88.8 | 68.6 | 103.0 |






#65
Chlorobenzene
Concen: 50.414 ug/l
RT: 11.445 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:112 Resp: 31790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.9 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
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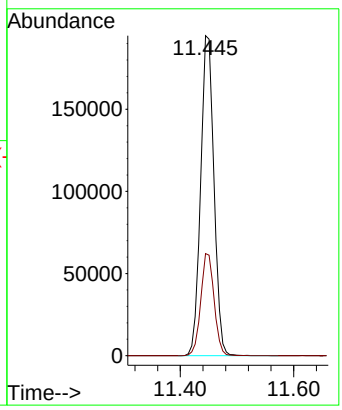
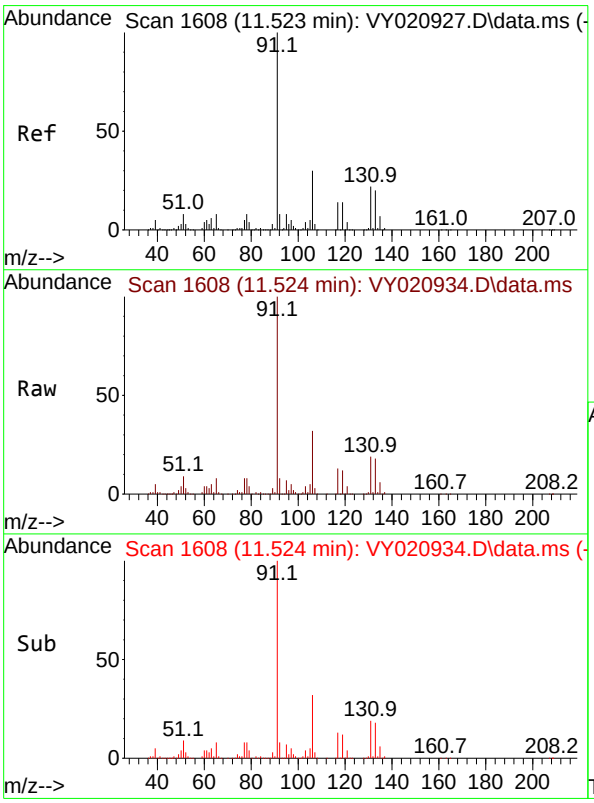
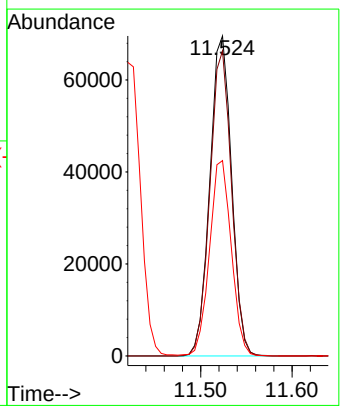


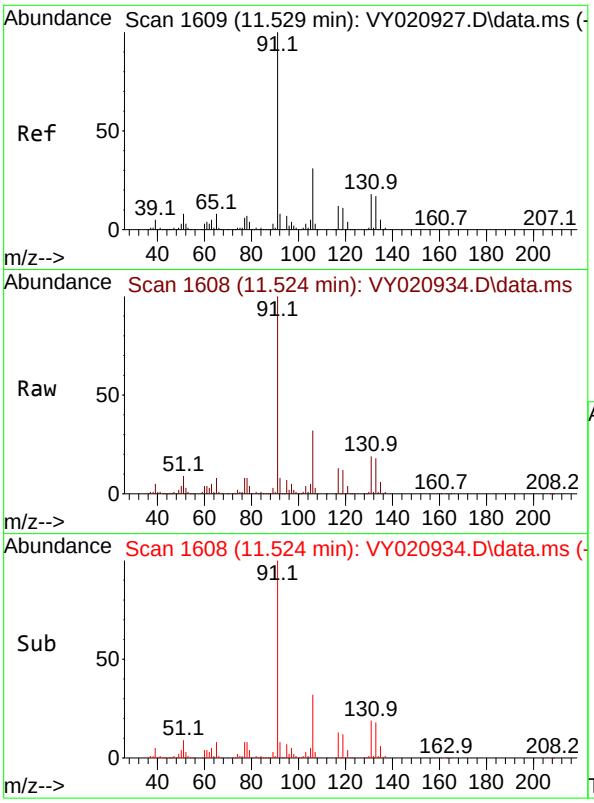




#66
1,1,1,2-Tetrachloroethane
Concen: 51.226 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:131 Resp: 114790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.2 | 47.5 | 142.6 |
| 119 | 61.4 | 31.2 | 93.6 |






#67
Ethyl Benzene
Concen: 50.178 ug/l
RT: 11.524 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 91 Resp: 55213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.6 | 25.2 | 37.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
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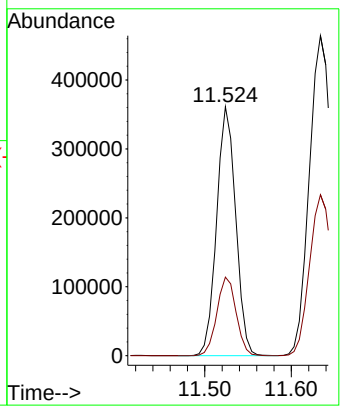
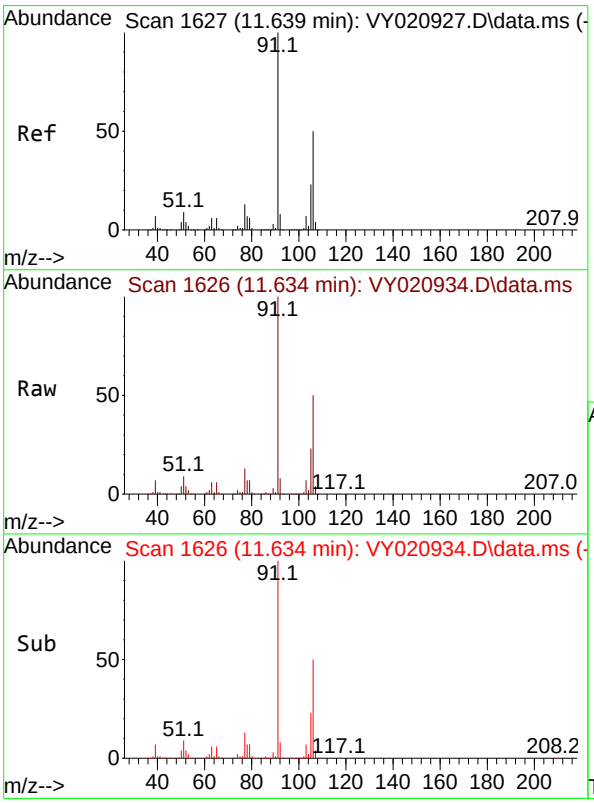
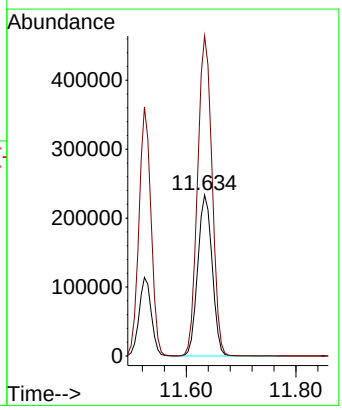


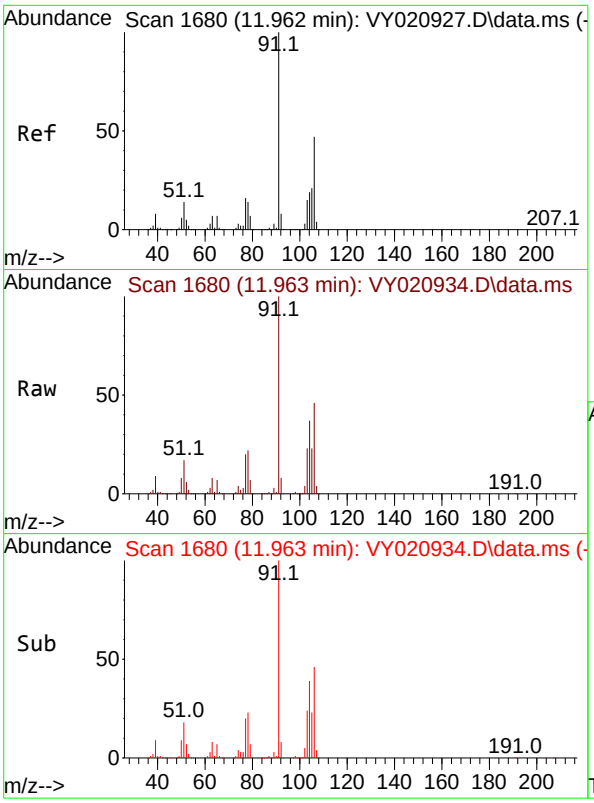




#68
m/p-Xylenes
Concen: 101.071 ug/l
RT: 11.634 min Scan# 1626
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:106 Resp: 425851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 199.7 | 159.5 | 239.3 |






#69
o-Xylene
Concen: 51.128 ug/l
RT: 11.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

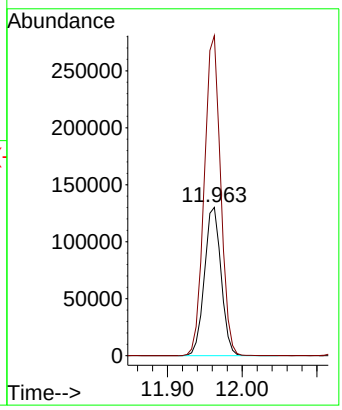
Tgt Ion:106 Resp: 20122

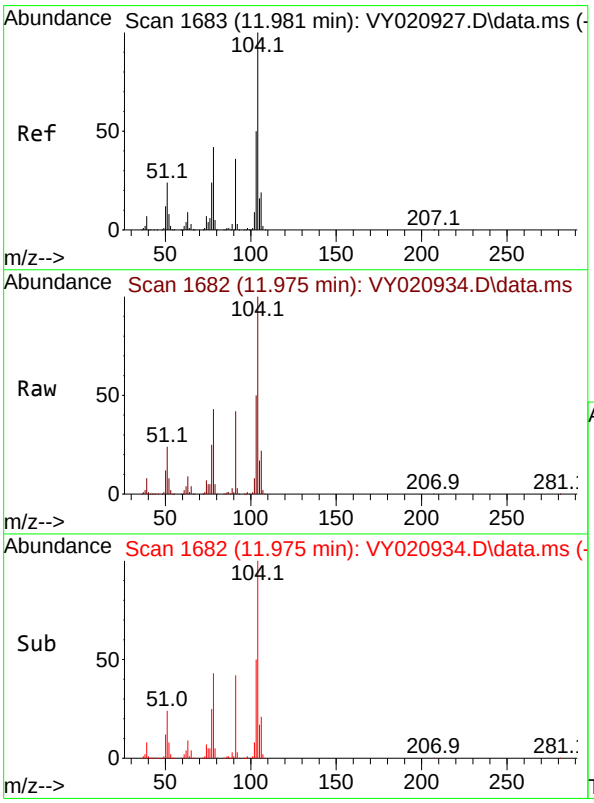
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 212.0 | 105.3 | 315.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

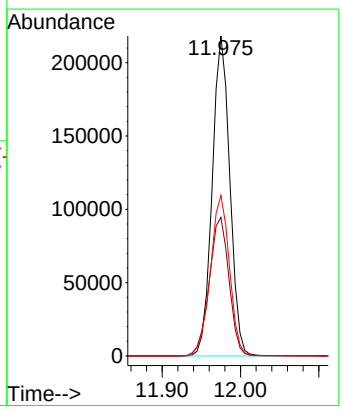


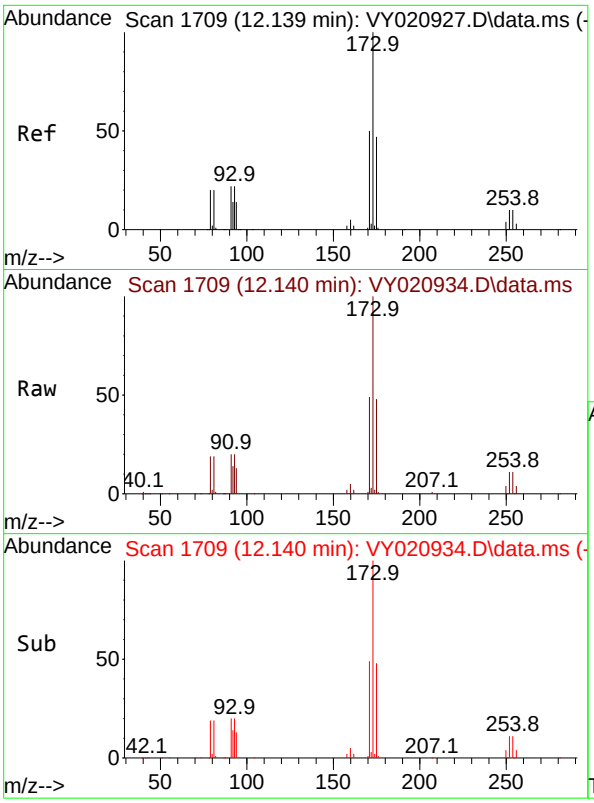




#70
Styrene
Concen: 52.897 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:104 Resp: 341185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.4 | 38.5 | 57.7 |
| 103 | 54.5 | 43.4 | 65.2 |






#71
Bromoform
Concen: 54.155 ug/l
RT: 12.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

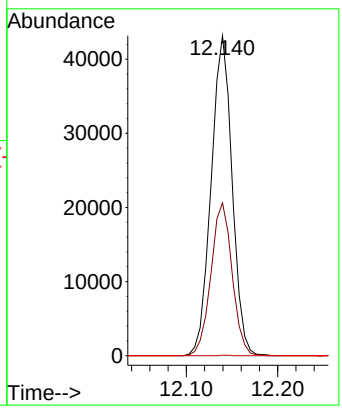
Tgt Ion:173 Resp: 6871

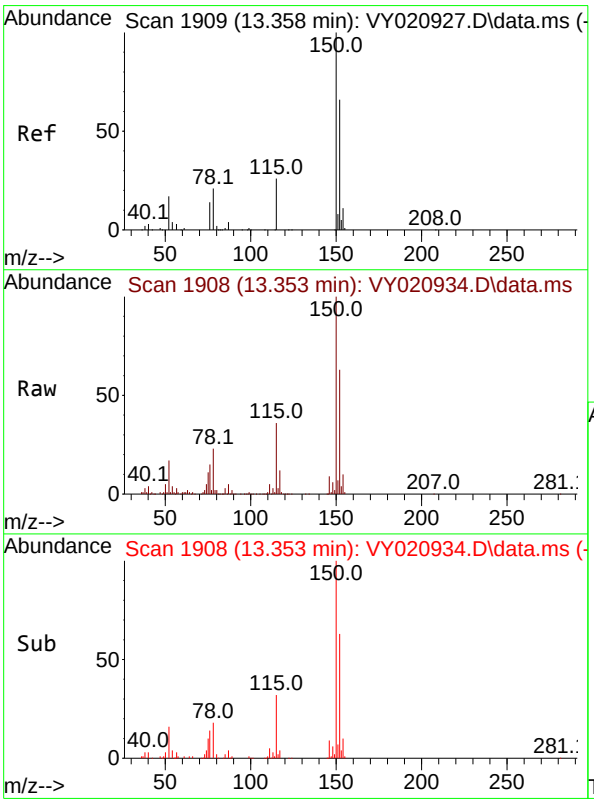
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.2 | 24.3 | 73.0 |
| 254 | 0.1 | 0.1 | 0.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

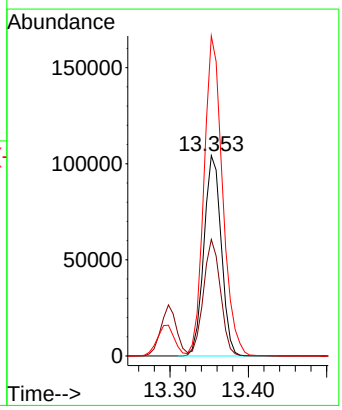


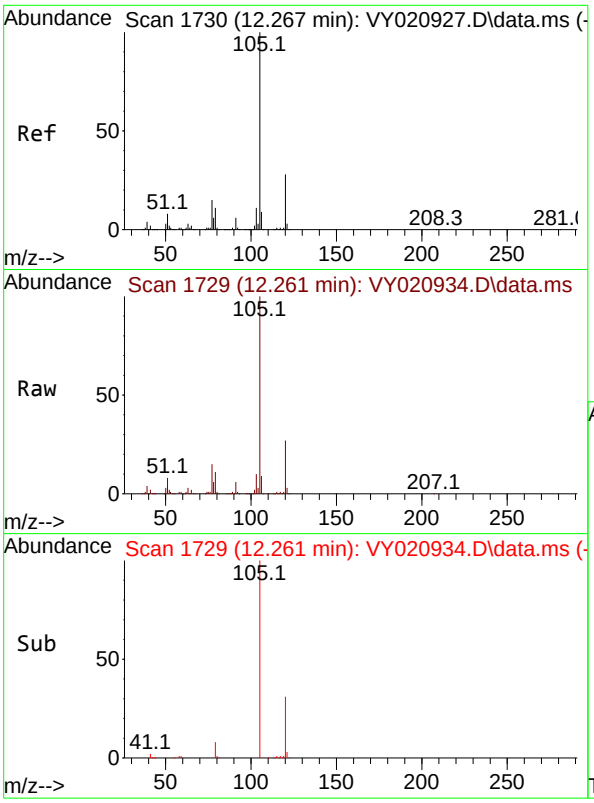




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:152 Resp: 159909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.2 | 29.0 | 87.0 |
| 150 | 171.1 | 0.0 | 347.6 |






#73
Isopropylbenzene
Concen: 48.654 ug/l
RT: 12.261 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

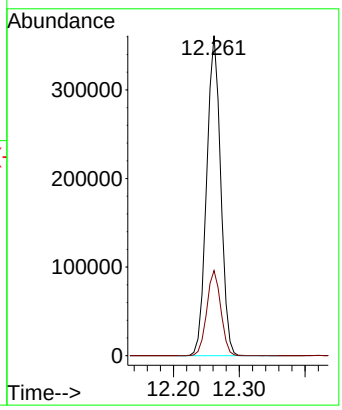
Tgt Ion:105 Resp: 53583

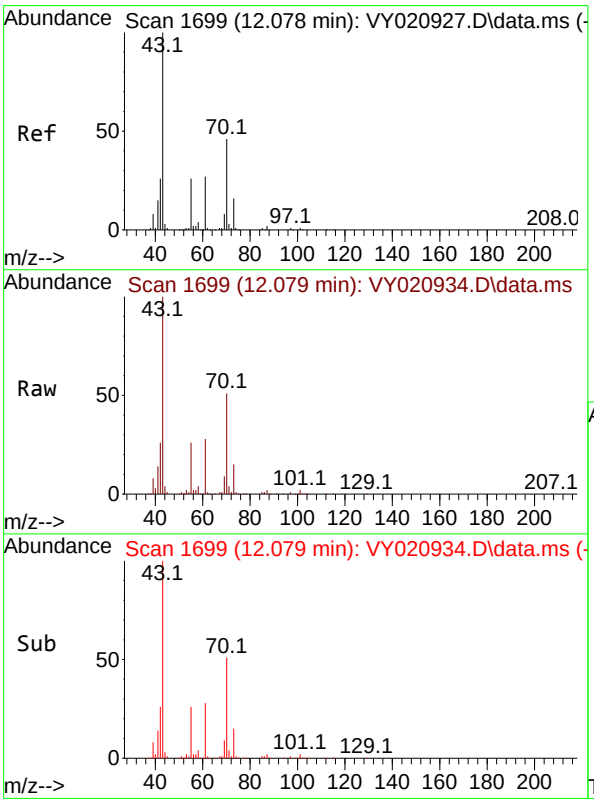
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.6 | 13.4 | 40.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

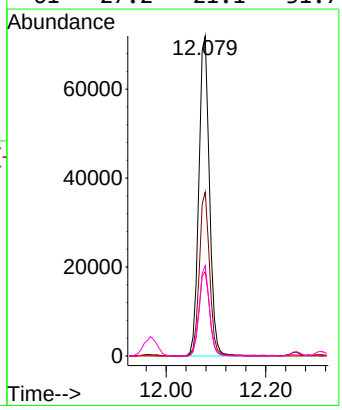


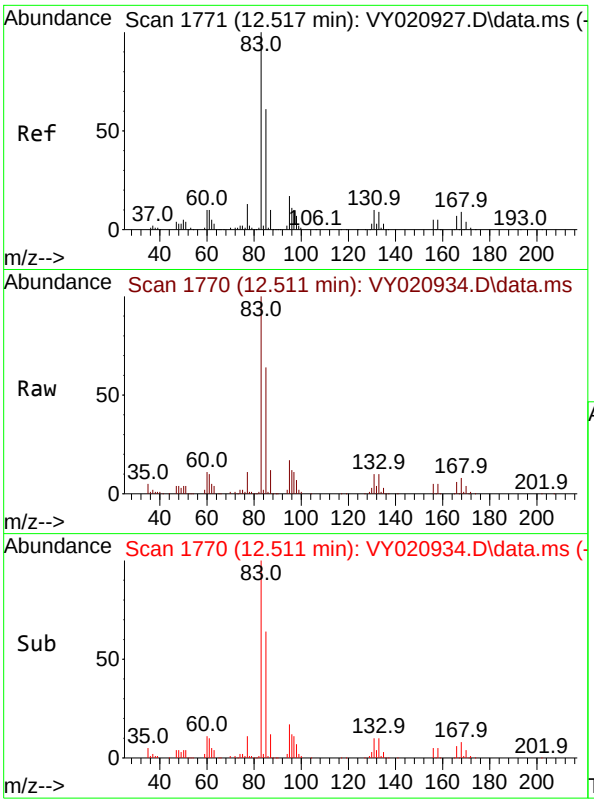




#74
N-amyl acetate
Concen: 54.373 ug/l
RT: 12.079 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 43 Resp: 106558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 49.6 | 38.7 | 58.1 |
| 55 | 26.2 | 21.6 | 32.4 |
| 61 | 27.2 | 21.1 | 31.7 |






#75
1,1,2,2-Tetrachloroethane
Concen: 51.576 ug/l
RT: 12.511 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

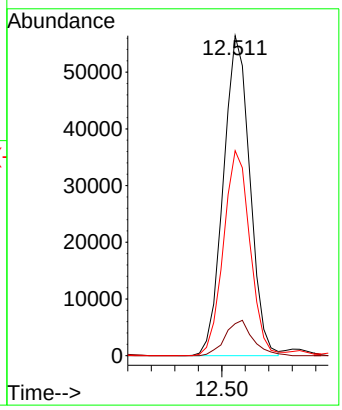
**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

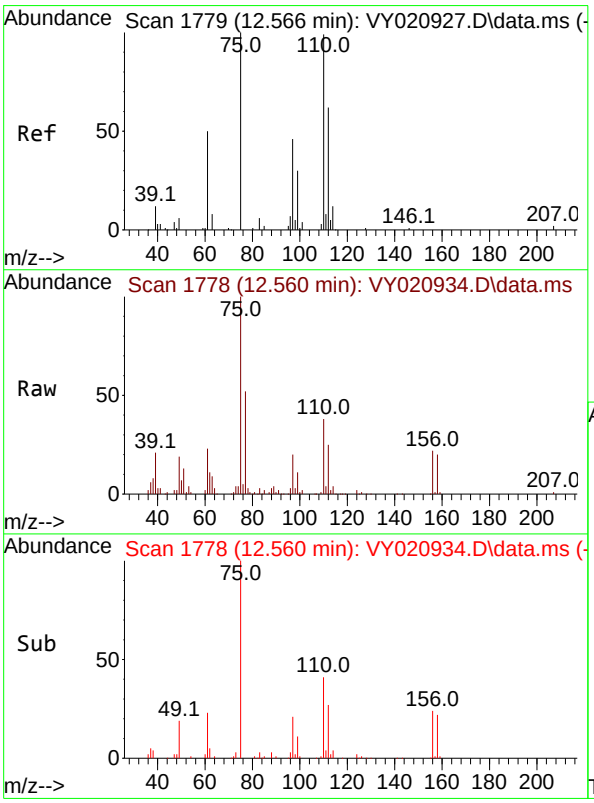
Tgt Ion: 83 Resp: 8837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.5 | 5.5 | 16.7 |
| 85 | 64.4 | 31.8 | 95.4 |

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

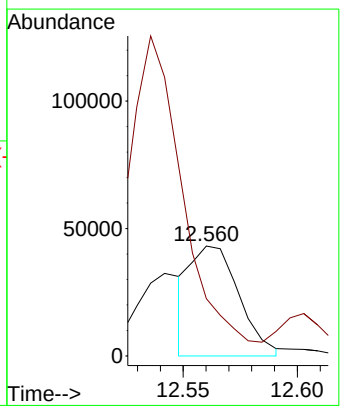


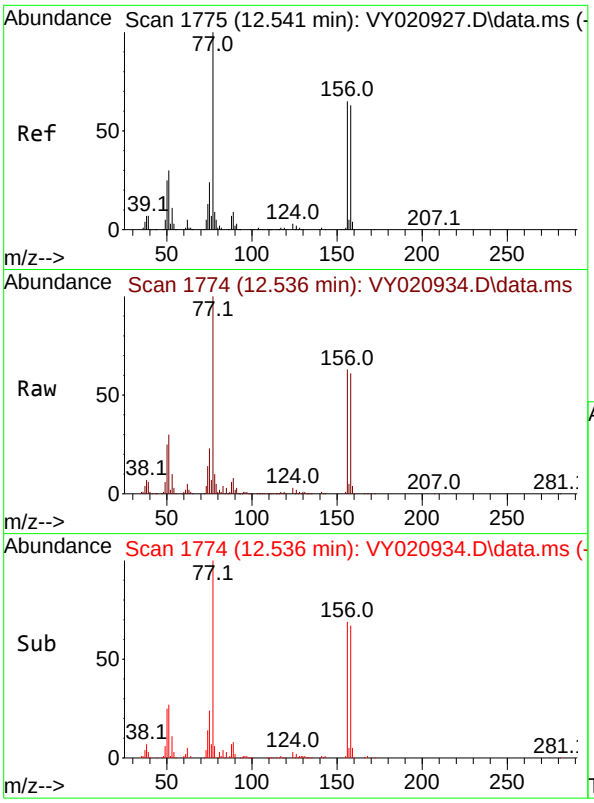




#76
1,2,3-Trichloropropane
Concen: 58.820 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 75 Resp: 64043

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






#77
Bromobenzene
Concen: 49.741 ug/l
RT: 12.536 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

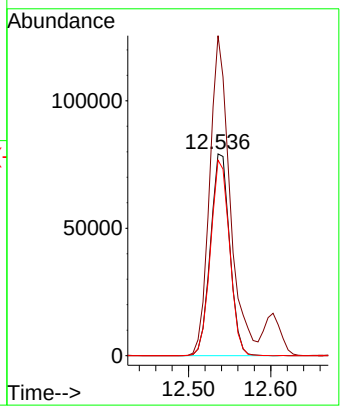
Tgt Ion:156 Resp: 12841

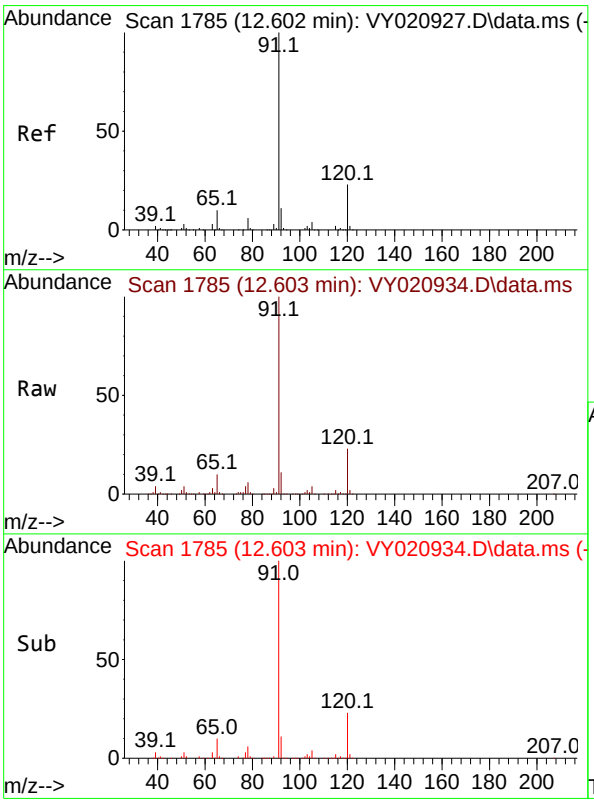
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 168.3 | 84.4 | 253.1 |
| 158 | 96.0 | 48.9 | 146.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

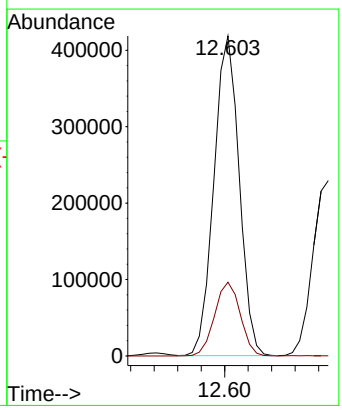


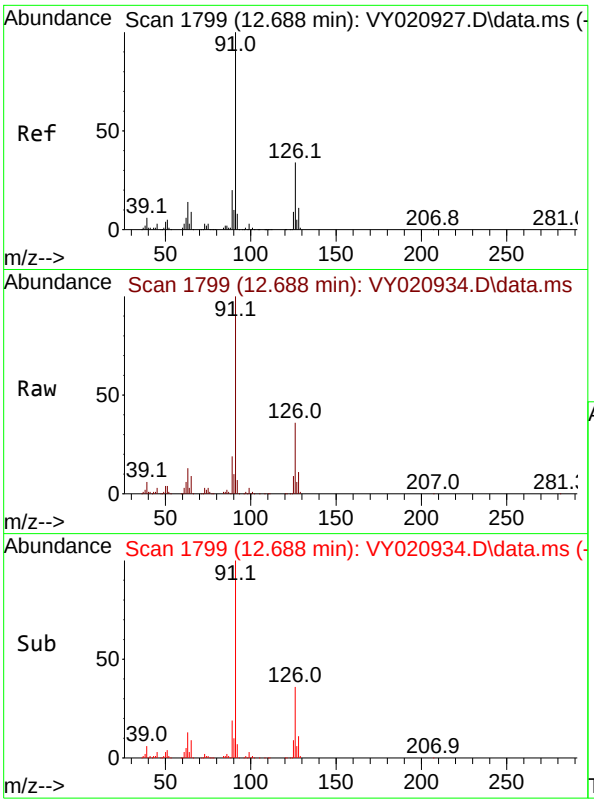




#78
n-propylbenzene
Concen: 48.677 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 91 Resp: 624466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.4 | 11.8 | 35.4 |






#79
2-Chlorotoluene
Concen: 49.123 ug/l
RT: 12.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

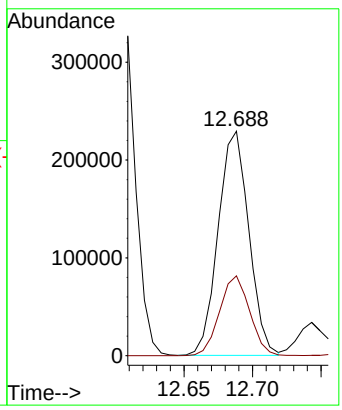
Tgt Ion: 91 Resp: 35741

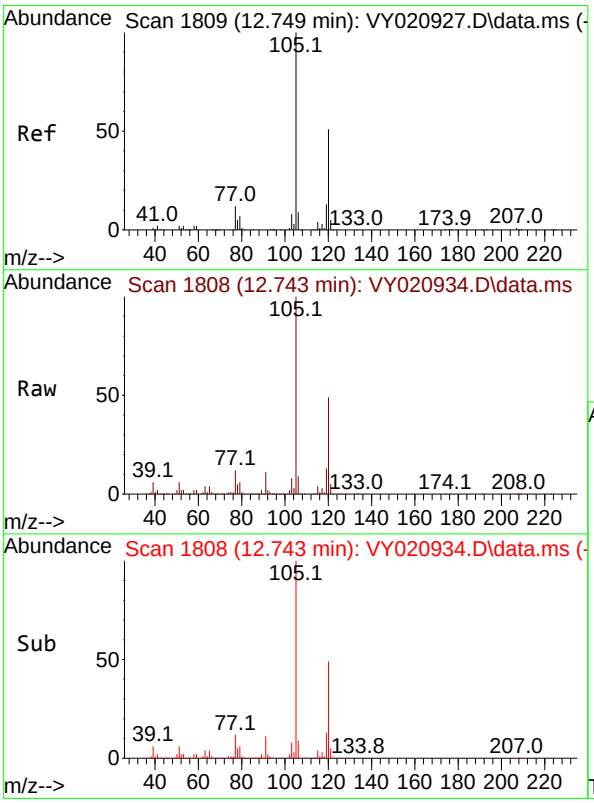
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.9 | 17.6 | 52.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

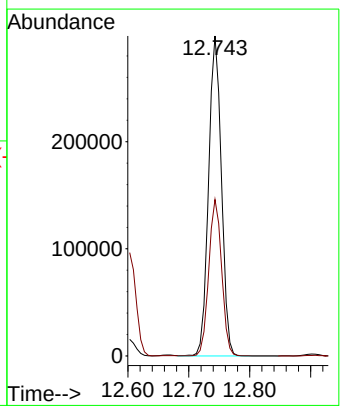


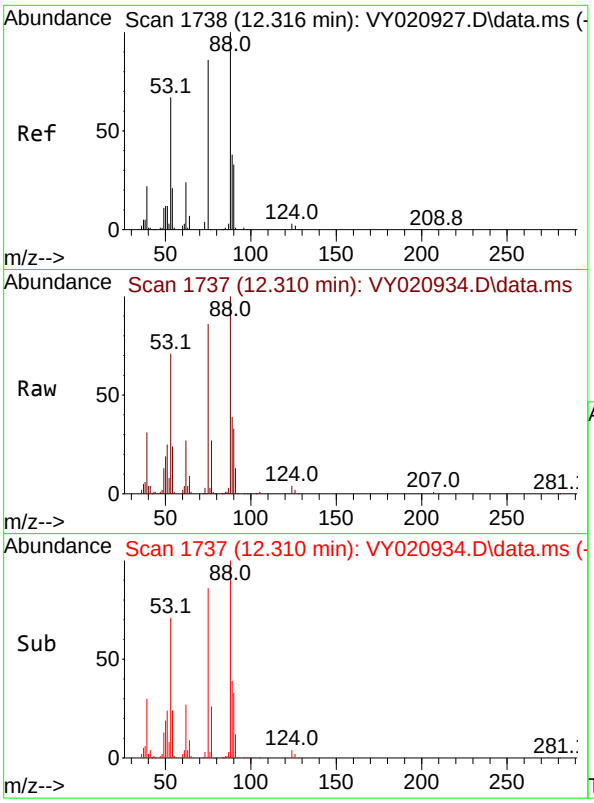




#80
1,3,5-Trimethylbenzene
Concen: 49.268 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:105 Resp: 435997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.3 | 24.9 | 74.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 52.132 ug/l
RT: 12.310 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 75 Resp: 3050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 87.3 | 67.7 | 101.5 |
| 89 | 46.4 | 38.4 | 57.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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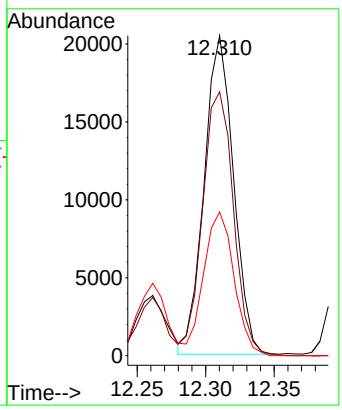
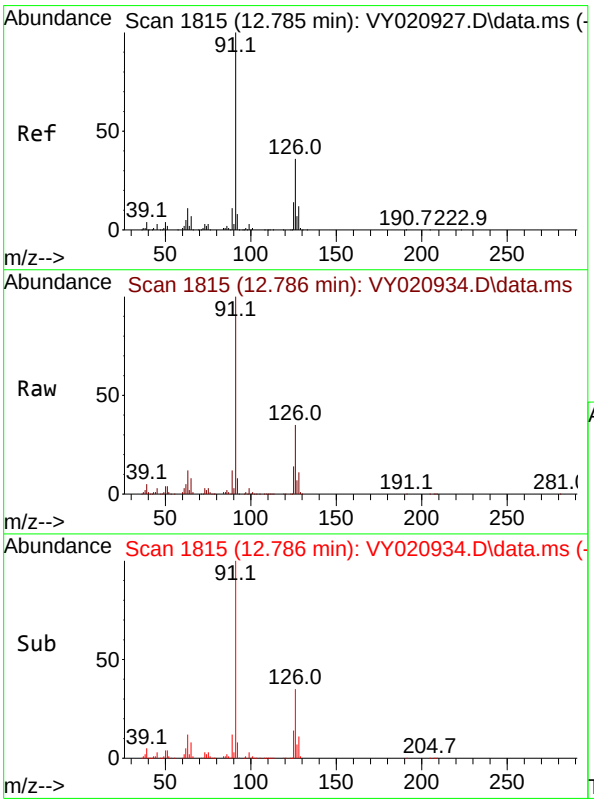
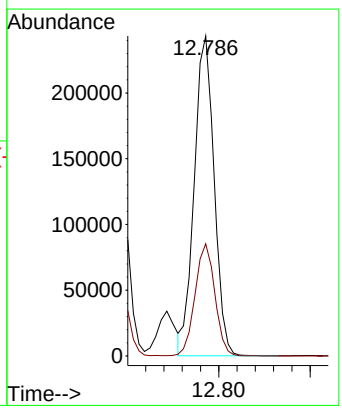


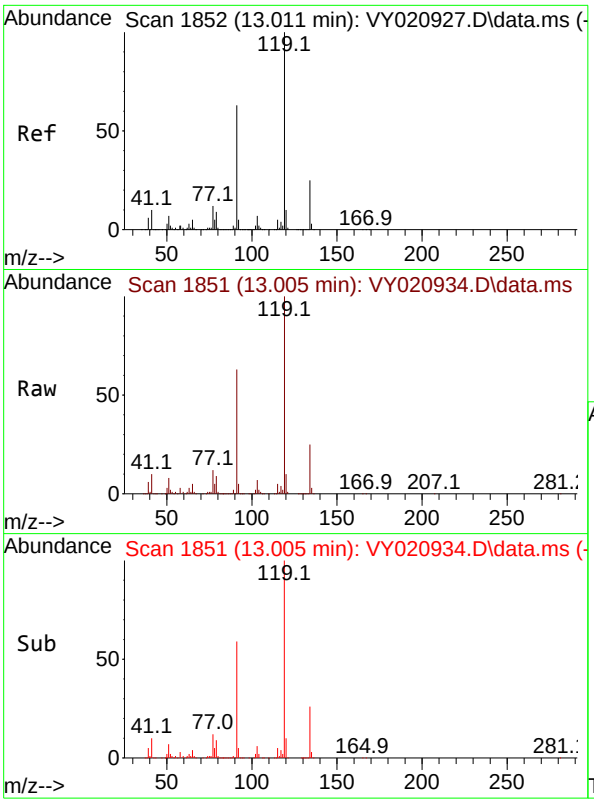




#82
4-Chlorotoluene
Concen: 49.441 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 91 Resp: 367341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.0 | 17.4 | 52.3 |






#83
tert-Butylbenzene
Concen: 49.371 ug/l
RT: 13.005 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:119 Resp: 40298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 62.4 | 30.9 | 92.8 |
| 134 | 26.7 | 13.1 | 39.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
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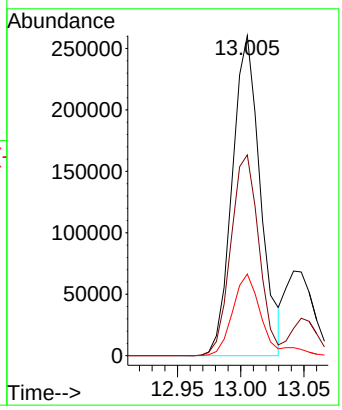
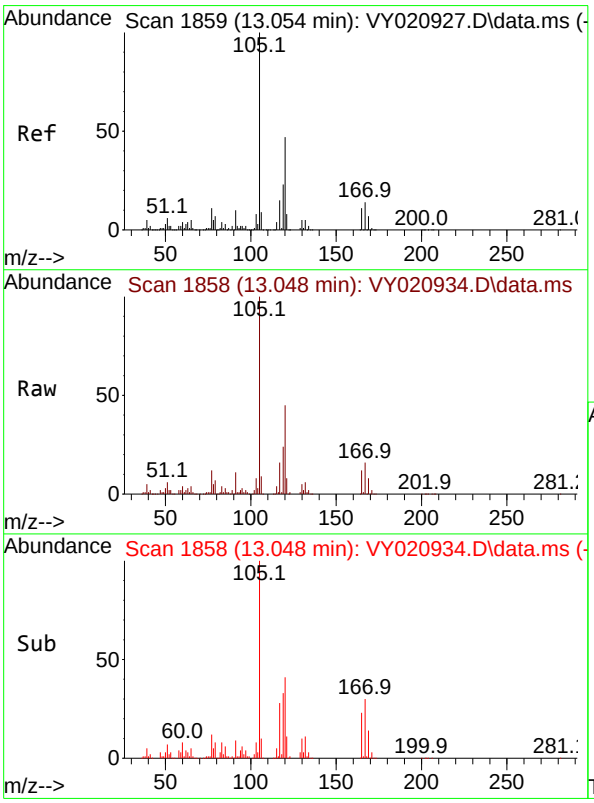
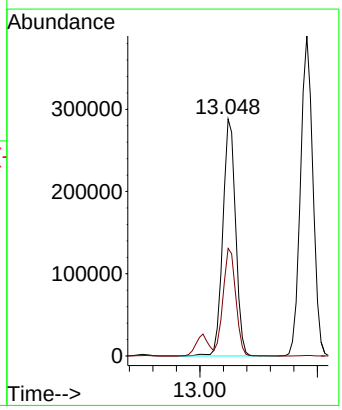


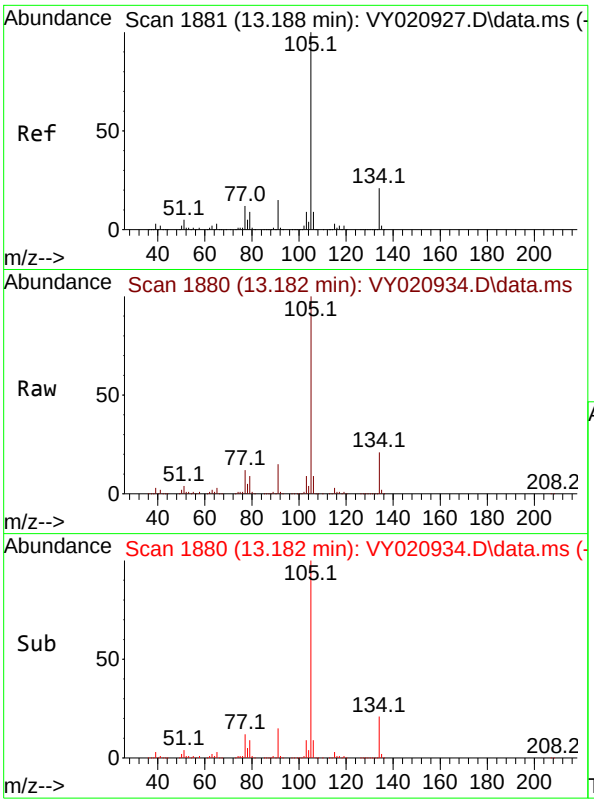




#84
1,2,4-Trimethylbenzene
Concen: 49.864 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:105 Resp: 434406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.1 | 22.9 | 68.7 |






#85
sec-Butylbenzene
Concen: 48.797 ug/l
RT: 13.182 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

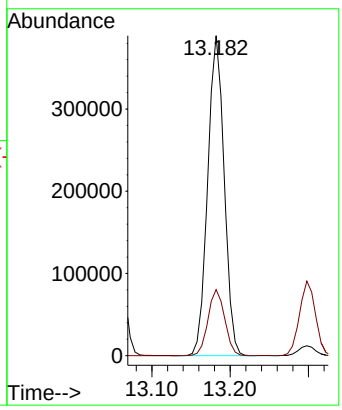
Tgt Ion:105 Resp: 567874

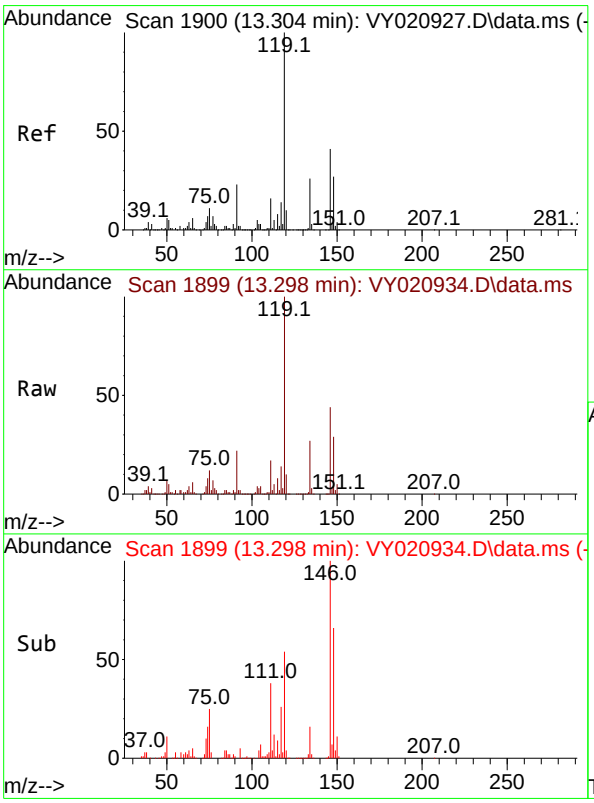
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.9 | 10.4 | 31.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

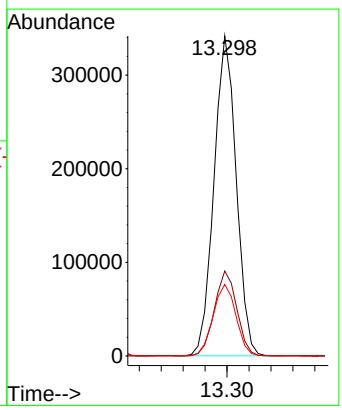


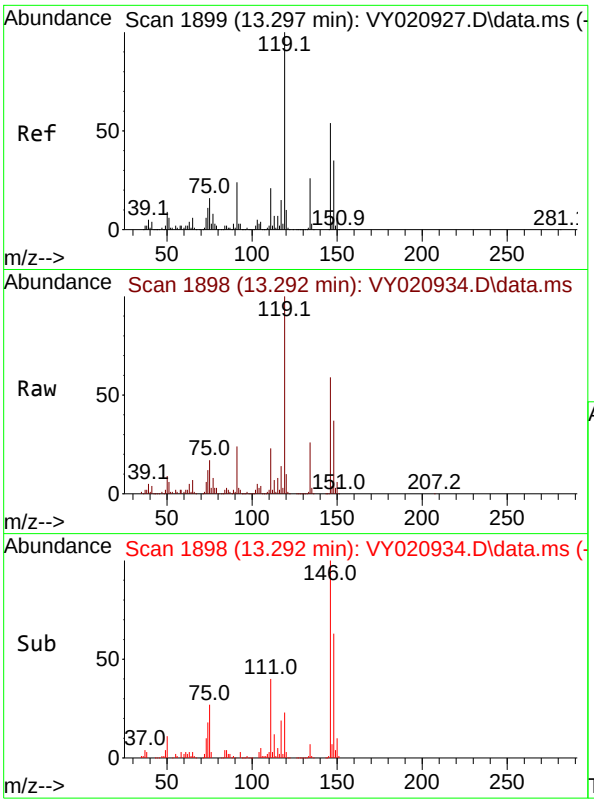




#86
p-Isopropyltoluene
Concen: 48.984 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:119 Resp: 481599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.8 | 13.3 | 39.8 |
| 91 | 22.9 | 11.6 | 34.7 |






#87
1,3-Dichlorobenzene
Concen: 49.449 ug/l
RT: 13.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

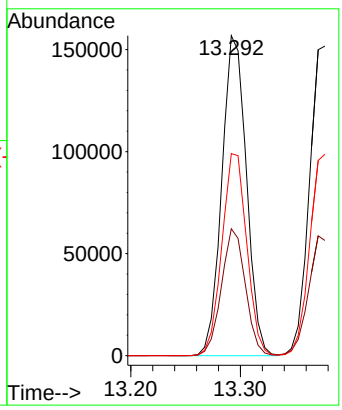
Tgt Ion:146 Resp: 24445

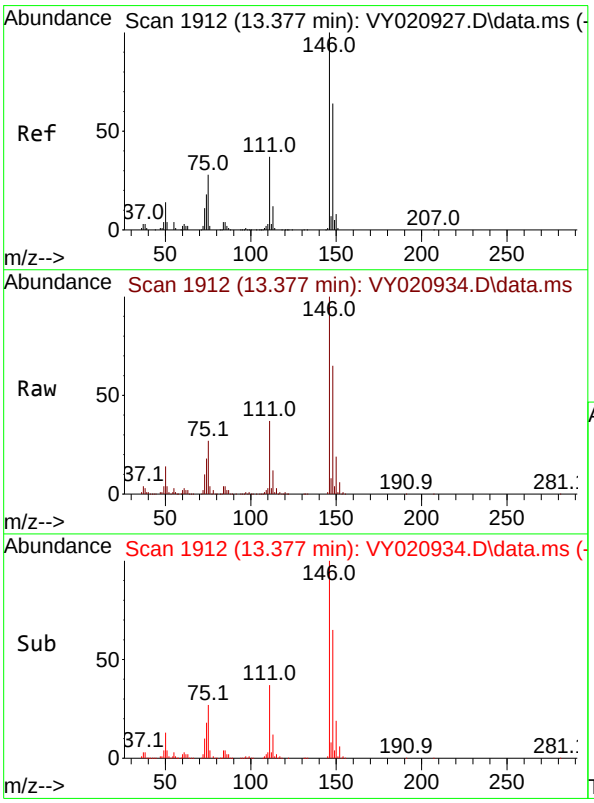
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.7 | 19.4 | 58.2 |
| 148 | 63.9 | 31.9 | 95.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

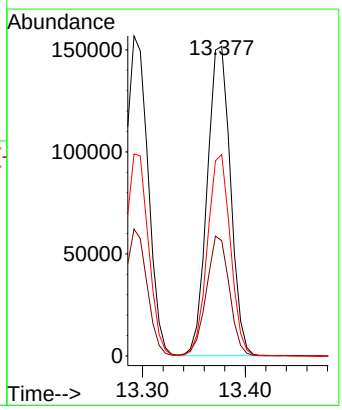


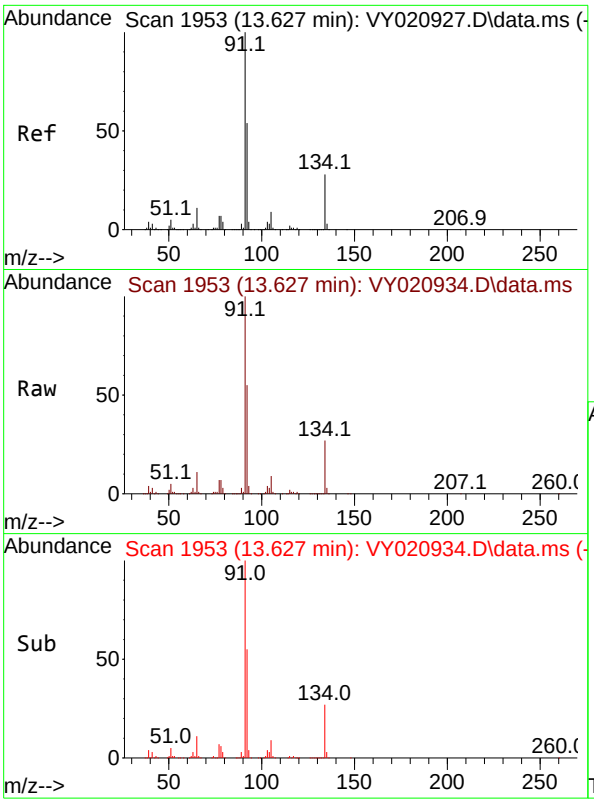




#88
1,4-Dichlorobenzene
Concen: 49.067 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:146 Resp: 238276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.3 | 18.8 | 56.4 |
| 148 | 64.4 | 32.0 | 96.0 |






#89
n-Butylbenzene
Concen: 48.846 ug/l
RT: 13.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

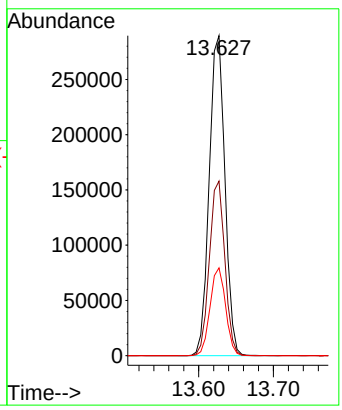
Tgt Ion: 91 Resp: 42361

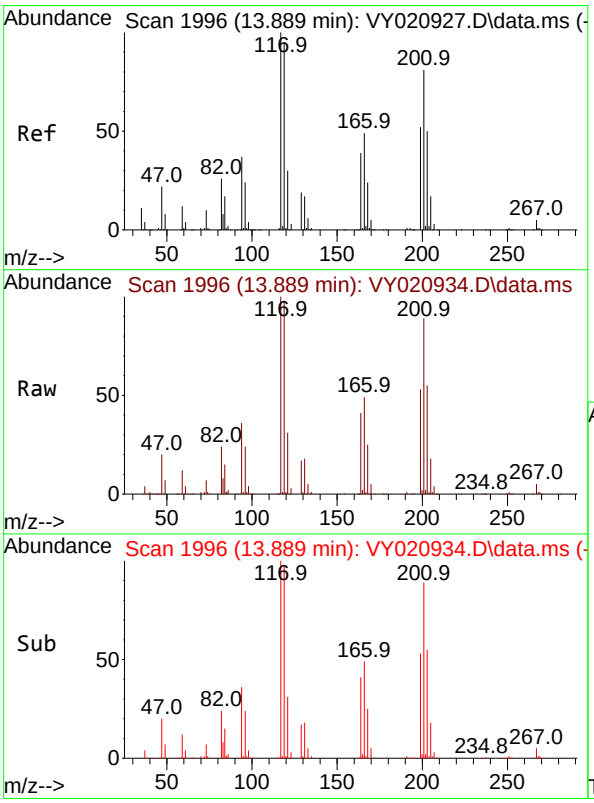
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.8 | 26.8 | 80.3 |
| 134 | 27.3 | 13.8 | 41.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

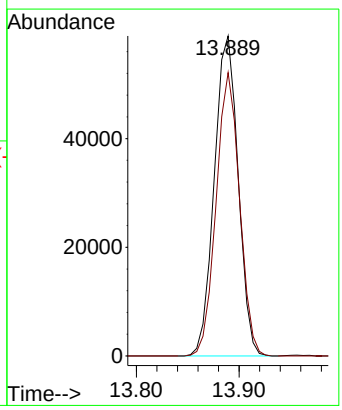


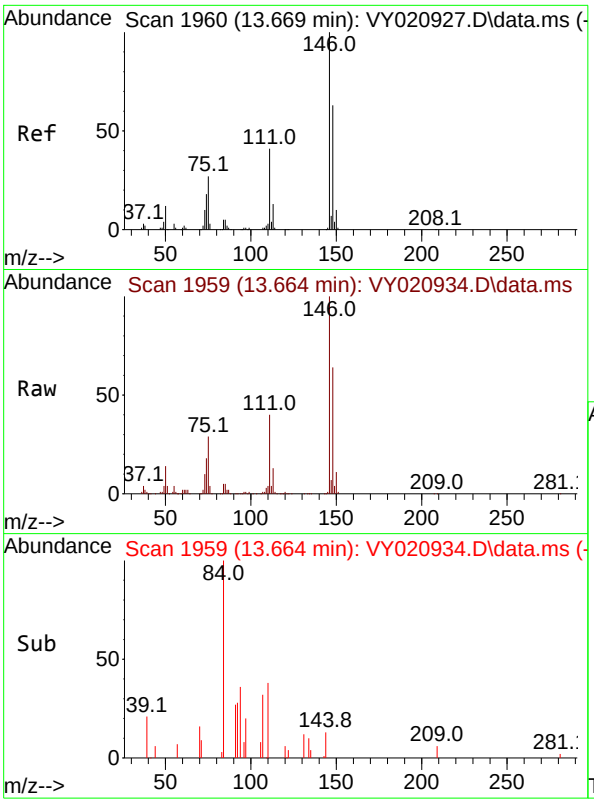




#90
Hexachloroethane
Concen: 48.560 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:117 Resp: 94843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 86.7 | 42.7 | 128.1 |






#91
1,2-Dichlorobenzene
Concen: 50.233 ug/l
RT: 13.664 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

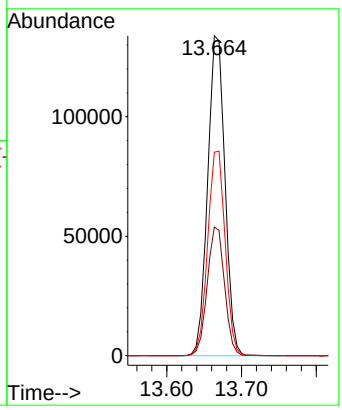
Tgt Ion:146 Resp: 215149

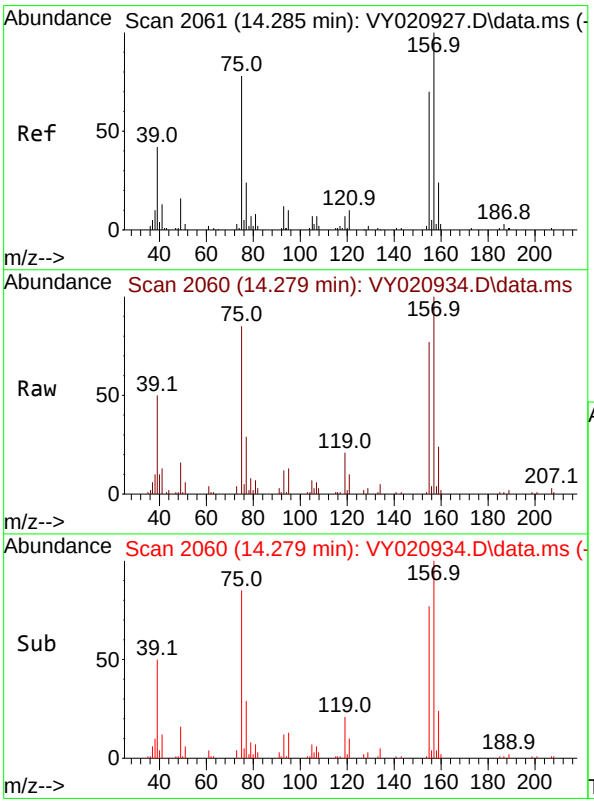
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.2 | 20.2 | 60.6 |
| 148 | 64.7 | 32.2 | 96.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

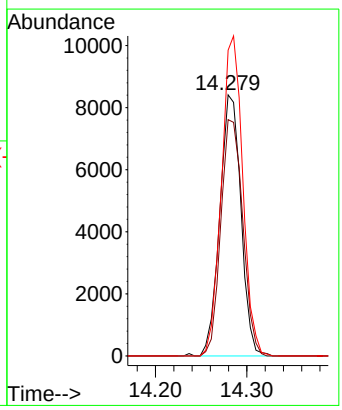


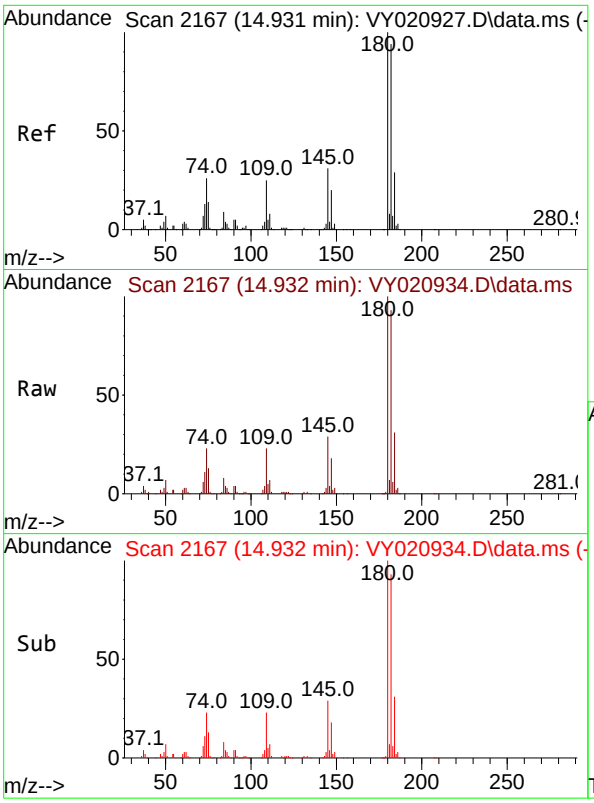




#92
1,2-Dibromo-3-Chloropropane
Concen: 52.692 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion: 75 Resp: 13564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 93.5 | 46.6 | 139.7 |
| 157 | 123.0 | 60.1 | 180.3 |






#93
1,2,4-Trichlorobenzene
Concen: 51.329 ug/l
RT: 14.932 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

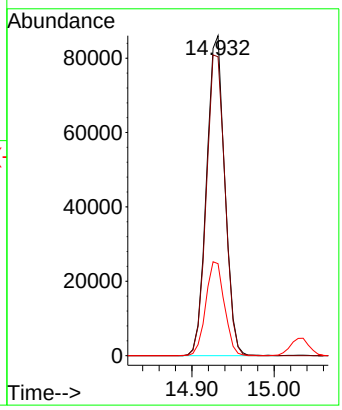
Tgt Ion:180 Resp: 13225

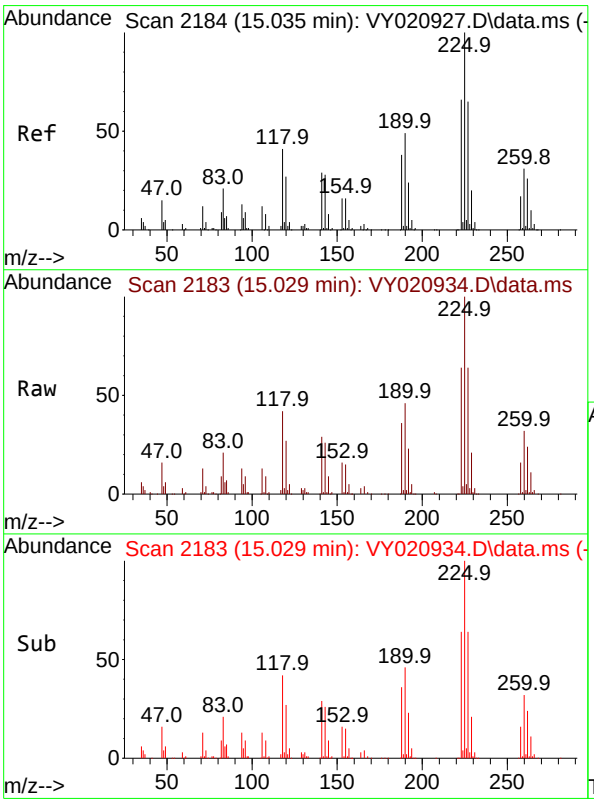
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.2 | 47.0 | 141.2 |
| 145 | 30.0 | 14.9 | 44.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

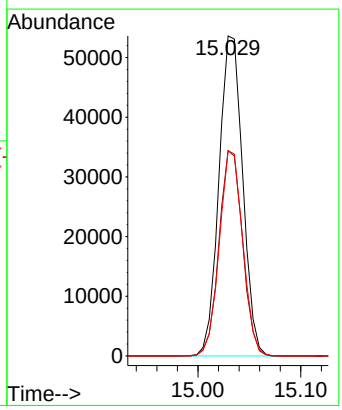


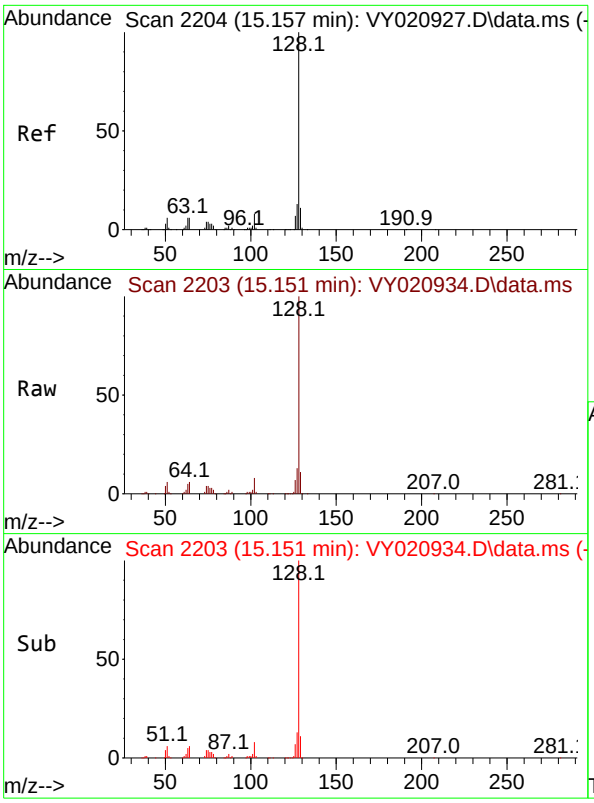




#94
Hexachlorobutadiene
Concen: 48.715 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:225 Resp: 85875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.3 | 31.5 | 94.5 |
| 227 | 63.4 | 31.9 | 95.9 |






#95
Naphthalene
Concen: 55.938 ug/l
RT: 15.151 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

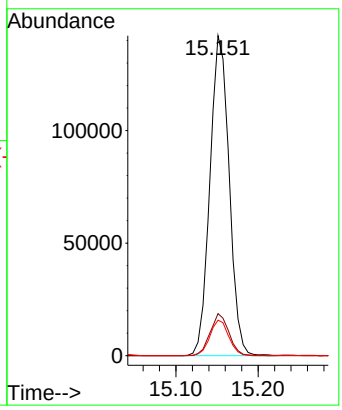
Tgt Ion:128 Resp: 23111

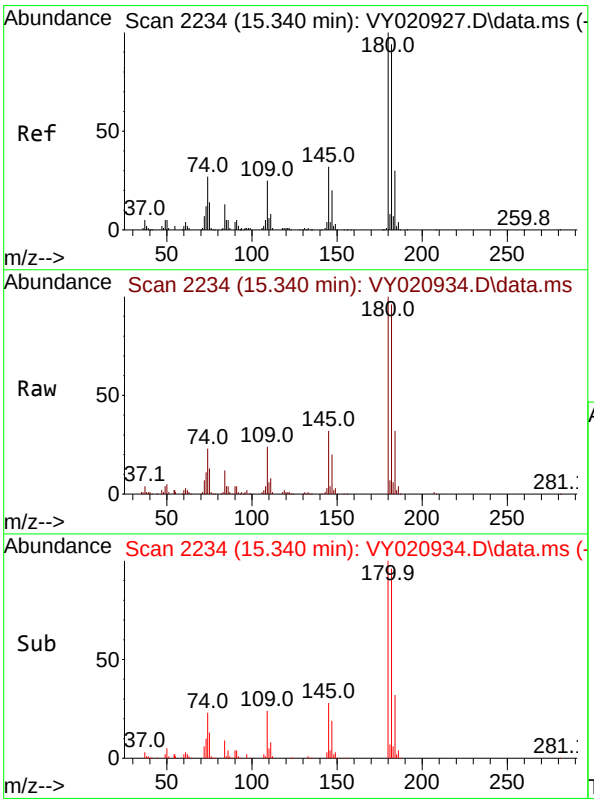
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.3 | 15.5 |
| 129 | 10.9 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 01/27/2025
Supervised By :Mahesh Dadoda 01/27/2025

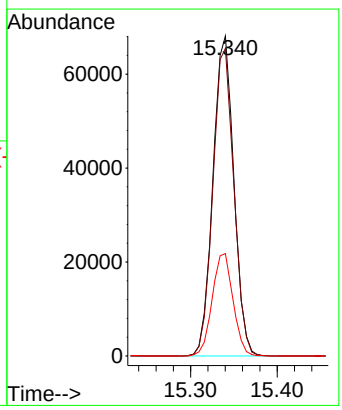



#96
1,2,3-Trichlorobenzene
Concen: 52.629 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020934.D
Acq: 24 Jan 2025 17:29

Tgt Ion:180 Resp: 113923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.4 | 47.5 | 142.6 |
| 145 | 32.0 | 15.7 | 47.0 |



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020934.D
Acq On : 24 Jan 2025 17:29
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

Quant Time: Jan 25 01:43:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:08:18 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 | 96 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.378 | 0.351 | 7.1 | 88 | 0.00 |
| 3 | P | Chloromethane | 0.281 | 0.278 | 1.1 | 95 | 0.00 |
| 4 | C | Vinyl Chloride | 0.307 | 0.295 | 3.9# | 90 | 0.00 |
| 5 | T | Bromomethane | 0.208 | 0.205 | 1.4 | 99 | 0.00 |
| 6 | T | Chloroethane | 0.180 | 0.183 | -1.7 | 95 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.651 | 0.640 | 1.7 | 92 | 0.00 |
| 8 | T | Diethyl Ether | 0.200 | 0.220 | -10.0 | 102 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.430 | 0.427 | 0.7 | 94 | 0.00 |
| 10 | T | Methyl Iodide | 0.512 | 0.520 | -1.6 | 91 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.031 | 0.028 | 9.7 | 102 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.406 | 0.408 | -0.5# | 96 | 0.00 |
| 13 | T | Acrolein | 0.042 | 0.044 | -4.8 | 92 | 0.00 |
| 14 | T | Allyl chloride | 0.566 | 0.587 | -3.7 | 97 | 0.00 |
| 15 | T | Acrylonitrile | 0.079 | 0.089 | -12.7 | 100 | 0.00 |
| 16 | T | Acetone | 0.054 | 0.059 | -9.3 | 99 | 0.00 |
| 17 | T | Carbon Disulfide | 1.253 | 1.255 | -0.2 | 94 | 0.00 |
| 18 | T | Methyl Acetate | 0.195 | 0.209 | -7.2 | 96 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 0.940 | 1.034 | -10.0 | 101 | 0.00 |
| 20 | T | Methylene Chloride | 0.402 | 0.424 | -5.5 | 101 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.438 | 0.447 | -2.1 | 96 | 0.00 |
| 22 | T | Diisopropyl ether | 1.139 | 1.236 | -8.5 | 100 | -0.01 |
| 23 | T | Vinyl Acetate | 0.631 | 0.712 | -12.8 | 100 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.722 | 0.756 | -4.7 | 98 | 0.00 |
| 25 | T | 2-Butanone | 0.091 | 0.103 | -13.2 | 102 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.711 | 0.681 | 4.2 | 93 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.494 | 0.522 | -5.7 | 100 | 0.00 |
| 28 | T | Bromochloromethane | 0.291 | 0.323 | -11.0 | 104 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.061 | 0.070 | -14.8 | 100 | 0.00 |
| 30 | C | Chloroform | 0.764 | 0.803 | -5.1# | 99 | 0.00 |
| 31 | T | Cyclohexane | 0.710 | 0.671 | 5.5 | 94 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.742 | 0.744 | -0.3 | 94 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.399 | 0.409 | -2.5 | 88 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.287 | 0.280 | 2.4 | 87 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.401 | 0.390 | 2.7 | 94 | 0.00 |
| 37 | T | Ethyl Acetate | 0.155 | 0.163 | -5.2 | 98 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.483 | 0.470 | 2.7 | 94 | 0.00 |
| 39 | T | Methylcyclohexane | 0.543 | 0.534 | 1.7 | 94 | 0.00 |
| 40 | TM | Benzene | 1.176 | 1.182 | -0.5 | 97 | 0.00 |
| 41 | T | Methacrylonitrile | 0.082 | 0.078 | 4.9 | 84 | -0.01 |
| 42 | TM | 1,2-Dichloroethane | 0.293 | 0.308 | -5.1 | 100 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.295 | 0.325 | -10.2 | 101 | 0.00 |
| 44 | TM | Trichloroethene | 0.319 | 0.319 | 0.0 | 98 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.260 | 0.273 | -5.0# | 101 | 0.00 |
| 46 | T | Dibromomethane | 0.148 | 0.157 | -6.1 | 99 | 0.00 |
| 47 | T | Bromodichloromethane | 0.393 | 0.408 | -3.8 | 99 | 0.00 |
| 48 | T | Methyl methacrylate | 0.139 | 0.153 | -10.1 | 102 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020934.D
Acq On : 24 Jan 2025 17:29
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

Quant Time: Jan 25 01:43:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:08:18 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 | 100 | 0.00 |
| 50 | S | Toluene-d8 | 1.113 | 1.075 | 3.4 | 85 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.149 | 0.166 | -11.4 | 101 | 0.00 |
| 52 | CM | Toluene | 0.756 | 0.775 | -2.5# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.360 | 0.384 | -6.7 | 100 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.430 | 0.453 | -5.3 | 100 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.199 | 0.207 | -4.0 | 99 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.261 | 0.293 | -12.3 | 101 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.339 | 0.358 | -5.6 | 100 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.119 | 0.138 | -16.0 | 109 | 0.00 |
| 59 | T | 2-Hexanone | 0.096 | 0.110 | -14.6 | 102 | 0.00 |
| 60 | T | Dibromochloromethane | 0.281 | 0.297 | -5.7 | 101 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.191 | 0.203 | -6.3 | 101 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.371 | 0.365 | 1.6 | 87 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 64 | T | Tetrachloroethene | 0.348 | 0.341 | 2.0 | 97 | 0.00 |
| 65 | PM | Chlorobenzene | 0.978 | 0.986 | -0.8 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.347 | 0.356 | -2.6 | 100 | 0.00 |
| 67 | C | Ethyl Benzene | 1.706 | 1.712 | -0.4# | 97 | 0.00 |
| 68 | T | m/p-Xylenes | 0.653 | 0.660 | -1.1 | 98 | 0.00 |
| 69 | T | o-Xylene | 0.610 | 0.624 | -2.3 | 99 | 0.00 |
| 70 | T | Styrene | 1.000 | 1.058 | -5.8 | 100 | 0.00 |
| 71 | P | Bromoform | 0.197 | 0.213 | -8.1 | 102 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 73 | T | Isopropylbenzene | 3.444 | 3.351 | 2.7 | 97 | 0.00 |
| 74 | T | N-amyl acetate | 0.613 | 0.666 | -8.6 | 102 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.536 | 0.553 | -3.2 | 100 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.354 | 0.400 | -13.0 | 105 | 0.00 |
| 77 | T | Bromobenzene | 0.807 | 0.803 | 0.5 | 100 | 0.00 |
| 78 | T | n-propylbenzene | 4.011 | 3.905 | 2.6 | 96 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.275 | 2.235 | 1.8 | 99 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.767 | 2.727 | 1.4 | 98 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.183 | 0.191 | -4.4 | 99 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.323 | 2.297 | 1.1 | 99 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.552 | 2.520 | 1.3 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.724 | 2.717 | 0.3 | 99 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.639 | 3.551 | 2.4 | 98 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.074 | 3.012 | 2.0 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.546 | 1.529 | 1.1 | 100 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.518 | 1.490 | 1.8 | 99 | 0.00 |
| 89 | T | n-Butylbenzene | 2.712 | 2.649 | 2.3 | 96 | 0.00 |
| 90 | T | Hexachloroethane | 0.611 | 0.593 | 2.9 | 98 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.339 | 1.345 | -0.4 | 100 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.080 | 0.085 | -6.3 | 104 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.806 | 0.827 | -2.6 | 102 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.551 | 0.537 | 2.5 | 99 | 0.00 |
| 95 | T | Naphthalene | 1.292 | 1.445 | -11.8 | 107 | 0.00 |

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020934.D
Acq On : 24 Jan 2025 17:29
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

Quant Time: Jan 25 01:43:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:08:18 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 | 0.677 | 0.712 | -5.2 | 105 | 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\VY012425\
Data File : VY020934.D
Acq On : 24 Jan 2025 17:29
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

Quant Time: Jan 25 01:43:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:08:18 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 | 96 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 46.424 | 7.2 | 88 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 49.446 | 1.1 | 95 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 48.106 | 3.8# | 90 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 49.446 | 1.1 | 99 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 50.817 | -1.6 | 95 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 49.118 | 1.8 | 92 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 54.852 | -9.7 | 102 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 49.672 | 0.7 | 94 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 50.782 | -1.6 | 91 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 230.070 | 8.0 | 102 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 50.247 | -0.5# | 96 | 0.00 |
| 13 | T | Acrolein | 250.000 | 265.447 | -6.2 | 92 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 51.808 | -3.6 | 97 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 281.559 | -12.6 | 100 | 0.00 |
| 16 | T | Acetone | 250.000 | 274.000 | -9.6 | 99 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 50.066 | -0.1 | 94 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 53.528 | -7.1 | 96 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 54.981 | -10.0 | 101 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 52.792 | -5.6 | 101 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 51.071 | -2.1 | 96 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 54.247 | -8.5 | 100 | -0.01 |
| 23 | T | Vinyl Acetate | 250.000 | 282.102 | -12.8 | 100 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 52.312 | -4.6 | 98 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 282.706 | -13.1 | 102 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 47.873 | 4.3 | 93 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 52.825 | -5.7 | 100 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 55.587 | -11.2 | 104 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 287.016 | -14.8 | 100 | 0.00 |
| 30 | C | Chloroform | 50.000 | 52.547 | -5.1# | 99 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 47.247 | 5.5 | 94 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.150 | -0.3 | 94 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 51.304 | -2.6 | 88 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 48.820 | 2.4 | 87 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 48.632 | 2.7 | 94 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 52.368 | -4.7 | 98 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 48.644 | 2.7 | 94 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 49.174 | 1.7 | 94 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.258 | -0.5 | 97 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 47.411 | 5.2 | 84 | -0.01 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 52.669 | -5.3 | 100 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 55.099 | -10.2 | 101 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 49.919 | 0.2 | 98 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 52.655 | -5.3# | 101 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 53.229 | -6.5 | 99 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 51.925 | -3.8 | 99 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 55.161 | -10.3 | 102 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020934.D
Acq On : 24 Jan 2025 17:29
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

Quant Time: Jan 25 01:43:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:08:18 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 | 1125.314 | -12.5 | 100 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 48.274 | 3.5 | 85 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 279.337 | -11.7 | 101 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.221 | -2.4# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 53.338 | -6.7 | 100 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 52.755 | -5.5 | 100 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.855 | -3.7 | 99 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 56.063 | -12.1 | 101 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 52.847 | -5.7 | 100 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 290.780 | -16.3 | 109 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 286.705 | -14.7 | 102 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 52.885 | -5.8 | 101 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 53.174 | -6.3 | 101 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 49.313 | 1.4 | 87 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 48.963 | 2.1 | 97 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.414 | -0.8 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.226 | -2.5 | 100 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 50.178 | -0.4# | 97 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 101.071 | -1.1 | 98 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 51.128 | -2.3 | 99 | 0.00 |
| 70 | T | Styrene | 50.000 | 52.897 | -5.8 | 100 | 0.00 |
| 71 | P | Bromoform | 50.000 | 54.155 | -8.3 | 102 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 48.654 | 2.7 | 97 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 54.373 | -8.7 | 102 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 51.576 | -3.2 | 100 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 58.820 | -17.6 | 105 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.741 | 0.5 | 100 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 48.677 | 2.6 | 96 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.123 | 1.8 | 99 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 49.268 | 1.5 | 98 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 52.132 | -4.3 | 99 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 49.441 | 1.1 | 99 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 49.371 | 1.3 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 49.864 | 0.3 | 99 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 48.797 | 2.4 | 98 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 48.984 | 2.0 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 49.449 | 1.1 | 100 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 49.067 | 1.9 | 99 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 48.846 | 2.3 | 96 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 48.560 | 2.9 | 98 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 50.233 | -0.5 | 100 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.692 | -5.4 | 104 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 51.329 | -2.7 | 102 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 48.715 | 2.6 | 99 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 55.938 | -11.9 | 107 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020934.D
Acq On : 24 Jan 2025 17:29
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY012425

Quant Time: Jan 25 01:43:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:08:18 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 52.629 | -5.3 | 105 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VN085516.D**

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

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1194 SAS No.: Q1194 SDG No.: Q1194

Instrument ID: MSVOA_N Calibration Date/Time: 01/27/2025 14:50

Lab File ID: VN085516.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.677 | 0.547 | | -19.2 | 20 |
| Chloromethane | 0.733 | 0.639 | 0.1 | -12.82 | 20 |
| Vinyl Chloride | 0.737 | 0.633 | | -14.11 | 20 |
| Bromomethane | 0.445 | 0.432 | | -2.92 | 20 |
| Chloroethane | 0.467 | 0.434 | | -7.07 | 20 |
| Trichlorofluoromethane | 1.069 | 0.963 | | -9.92 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.602 | 0.524 | | -12.96 | 20 |
| 1,1-Dichloroethene | 0.537 | 0.511 | | -4.84 | 20 |
| Acetone | 0.261 | 0.281 | | 7.66 | 20 |
| Carbon Disulfide | 1.652 | 1.312 | | -20.58 | 20 |
| Methyl tert-butyl Ether | 1.742 | 2.172 | | 24.68 | 20 |
| Methyl Acetate | 0.793 | 0.949 | | 19.67 | 20 |
| Methylene Chloride | 0.646 | 0.674 | | 4.33 | 20 |
| trans-1,2-Dichloroethene | 0.573 | 0.556 | | -2.97 | 20 |
| 1,1-Dichloroethane | 1.178 | 1.235 | 0.1 | 4.84 | 20 |
| Cyclohexane | 1.024 | 0.824 | | -19.53 | 20 |
| 2-Butanone | 0.384 | 0.433 | | 12.76 | 20 |
| Carbon Tetrachloride | 0.557 | 0.493 | | -11.49 | 20 |
| cis-1,2-Dichloroethene | 0.675 | 0.728 | | 7.85 | 20 |
| Bromochloromethane | 0.548 | 0.503 | | -8.21 | 20 |
| Chloroform | 1.218 | 1.284 | | 5.42 | 20 |
| 1,1,1-Trichloroethane | 1.068 | 1.050 | | -1.68 | 20 |
| Methylcyclohexane | 0.457 | 0.400 | | -12.47 | 20 |
| Benzene | 1.463 | 1.430 | | -2.26 | 20 |
| 1,2-Dichloroethane | 0.551 | 0.563 | | 2.18 | 20 |
| Trichloroethene | 0.341 | 0.323 | | -5.28 | 20 |
| 1,2-Dichloropropane | 0.374 | 0.378 | | 1.07 | 20 |
| Bromodichloromethane | 0.549 | 0.583 | | 6.19 | 20 |
| 4-Methyl-2-Pentanone | 0.457 | 0.523 | | 14.44 | 20 |
| Toluene | 0.848 | 0.877 | | 3.42 | 20 |
| t-1,3-Dichloropropene | 0.519 | 0.584 | | 12.52 | 20 |
| cis-1,3-Dichloropropene | 0.554 | 0.613 | | 10.65 | 20 |
| 1,1,2-Trichloroethane | 0.335 | 0.357 | | 6.57 | 20 |
| 2-Hexanone | 0.321 | 0.375 | | 16.82 | 20 |
| Dibromochloromethane | 0.405 | 0.436 | | 7.65 | 20 |
| 1,2-Dibromoethane | 0.334 | 0.357 | | 6.89 | 20 |
| Tetrachloroethene | 0.341 | 0.320 | | -6.16 | 20 |
| Chlorobenzene | 1.095 | 1.094 | 0.3 | -0.09 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1194 SAS No.: Q1194 SDG No.: Q1194

Instrument ID: MSVOA_N Calibration Date/Time: 01/27/2025 14:50

Lab File ID: VN085516.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.784 | 1.852 | | 3.81 | 20 |
| m/p-Xylenes | 0.659 | 0.705 | | 6.98 | 20 |
| o-Xylene | 0.630 | 0.689 | | 9.36 | 20 |
| Styrene | 1.043 | 1.211 | | 16.11 | 20 |
| Bromoform | 0.288 | 0.332 | 0.1 | 15.28 | 20 |
| Isopropylbenzene | 3.375 | 3.414 | | 1.16 | 20 |
| 1,1,2,2-Tetrachloroethane | 1.192 | 1.227 | 0.3 | 2.94 | 20 |
| 1,3-Dichlorobenzene | 1.624 | 1.629 | | 0.31 | 20 |
| 1,4-Dichlorobenzene | 1.683 | 1.636 | | -2.79 | 20 |
| 1,2-Dichlorobenzene | 1.620 | 1.617 | | -0.19 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.218 | 0.231 | | 5.96 | 20 |
| 1,2,4-Trichlorobenzene | 0.753 | 0.807 | | 7.17 | 20 |
| 1,2,3-Trichlorobenzene | 0.762 | 0.812 | | 6.56 | 20 |
| 1,2-Dichloroethane-d4 | 0.807 | 0.829 | | 2.73 | 20 |
| Dibromofluoromethane | 0.347 | 0.327 | | -5.76 | 20 |
| Toluene-d8 | 1.232 | 1.150 | | -6.66 | 20 |
| 4-Bromofluorobenzene | 0.422 | 0.421 | | -0.24 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Sample Results: **VN085516.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085516.D
Acq On : 27 Jan 2025 14:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 28 01:58:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 179985 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.094 | 114 | 325755 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 284425 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 139987 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.571 | 65 | 149158 | 51.339 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 102.680% | | | |
| 35) Dibromofluoromethane | 8.159 | 113 | 106514 | 47.131 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 94.260% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 374598 | 46.653 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 93.300% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 137149 | 49.932 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 99.860% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 98492 | 40.416 | ug/l | 99 |
| 3) Chloromethane | 2.359 | 50 | 115040 | 43.600 | ug/l | 97 |
| 4) Vinyl Chloride | 2.512 | 62 | 113887 | 42.942 | ug/l | 99 |
| 5) Bromomethane | 2.947 | 94 | 77780 | 48.552 | ug/l | 98 |
| 6) Chloroethane | 3.112 | 64 | 78161 | 46.485 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.500 | 101 | 173314 | 45.038 | ug/l | 96 |
| 8) Diethyl Ether | 3.959 | 74 | 71832 | 54.034 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 94271 | 43.494 | ug/l | 99 |
| 10) Methyl Iodide | 4.583 | 142 | 133520 | 53.794 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.506 | 59 | 112021 | 336.724 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.336 | 96 | 91993 | 47.624 | ug/l | 97 |
| 13) Acrolein | 4.177 | 56 | 160387 | 353.168 | ug/l | 100 |
| 14) Allyl chloride | 5.018 | 41 | 159700 | 50.950 | ug/l | 99 |
| 15) Acrylonitrile | 5.712 | 53 | 305102 | 288.732 | ug/l | 100 |
| 16) Acetone | 4.418 | 43 | 252464 | 268.940 | ug/l | 98 |
| 17) Carbon Disulfide | 4.706 | 76 | 236084 | 39.695 | ug/l | 99 |
| 18) Methyl Acetate | 5.018 | 43 | 170799 | 59.834 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.788 | 73 | 390940 | 62.329 | ug/l | 97 |
| 20) Methylene Chloride | 5.265 | 84 | 121237 | 52.169 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.783 | 96 | 100114 | 48.496 | ug/l | 92 |
| 22) Diisopropyl ether | 6.665 | 45 | 406897 | 58.486 | ug/l | 100 |
| 23) Vinyl Acetate | 6.594 | 43 | 1459713 | 299.808 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.559 | 63 | 222305 | 52.404 | ug/l | 100 |
| 25) 2-Butanone | 7.477 | 43 | 389978 | 282.299 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.482 | 77 | 179985 | 52.477 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.482 | 96 | 131013 | 53.882 | ug/l | 99 |
| 28) Bromochloromethane | 7.806 | 49 | 90452 | 45.830 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.829 | 42 | 259786 | 296.615 | ug/l | 100 |
| 30) Chloroform | 7.959 | 83 | 231016 | 52.690 | ug/l | 100 |
| 31) Cyclohexane | 8.253 | 56 | 148377 | 40.242 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 8.159 | 97 | 188991 | 49.141 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.365 | 75 | 141489 | 44.609 | ug/l | 99 |
| 37) Ethyl Acetate | 7.553 | 43 | 168512 | 52.636 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 160567 | 44.219 | ug/l | 96 |
| 39) Methylcyclohexane | 9.600 | 83 | 130155 | 43.668 | ug/l | 99 |
| 40) Benzene | 8.600 | 78 | 465760 | 48.872 | ug/l | 100 |

Sample Results: **VN085516.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085516.D
Acq On : 27 Jan 2025 14:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 28 01:58:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.771 | 41 | 94372 | 56.659 ug/l | 98 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 183306 | 51.070 ug/l | 99 |
| 43) Isopropyl Acetate | 8.682 | 43 | 281936 | 54.960 ug/l | 100 |
| 44) Trichloroethene | 9.347 | 130 | 105110 | 47.381 ug/l | 95 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 123088 | 50.565 ug/l | 97 |
| 46) Dibromomethane | 9.700 | 93 | 88504 | 50.387 ug/l | 95 |
| 47) Bromodichloromethane | 9.882 | 83 | 190039 | 53.106 ug/l | 99 |
| 48) Methyl methacrylate | 9.676 | 41 | 132510 | 57.400 ug/l | 98 |
| 49) 1,4-Dioxane | 9.688 | 88 | 40696 | 1046.827 ug/l | 99 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 851970 | 286.205 ug/l | 99 |
| 52) Toluene | 10.623 | 92 | 285545 | 51.711 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.829 | 75 | 190140 | 56.226 ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 10.306 | 75 | 199604 | 55.257 ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 116373 | 53.253 ug/l | 96 |
| 56) Ethyl methacrylate | 10.870 | 69 | 189137 | 51.325 ug/l | 99 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 205868 | 54.178 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 10.153 | 63 | 413395 | 298.097 ug/l | 100 |
| 59) 2-Hexanone | 11.194 | 43 | 610023 | 291.243 ug/l | 99 |
| 60) Dibromochloromethane | 11.353 | 129 | 142167 | 53.886 ug/l | 98 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 116327 | 53.477 ug/l | 98 |
| 64) Tetrachloroethene | 11.100 | 164 | 91013 | 46.937 ug/l | 98 |
| 65) Chlorobenzene | 11.888 | 112 | 311291 | 49.960 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 117864 | 51.540 ug/l | 99 |
| 67) Ethyl Benzene | 11.959 | 91 | 526713 | 51.901 ug/l | 99 |
| 68) m/p-Xylenes | 12.064 | 106 | 401289 | 106.992 ug/l | 100 |
| 69) o-Xylene | 12.394 | 106 | 196078 | 54.703 ug/l | 100 |
| 70) Styrene | 12.406 | 104 | 344386 | 58.055 ug/l | 99 |
| 71) Bromoform | 12.576 | 173 | 94532 | 57.773 ug/l # | 100 |
| 73) Isopropylbenzene | 12.694 | 105 | 477865 | 50.579 ug/l | 99 |
| 74) N-amyl acetate | 12.488 | 43 | 240341 | 56.596 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 171698 | 51.447 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 161908m | 56.904 ug/l | |
| 77) Bromobenzene | 12.976 | 156 | 127105 | 51.493 ug/l | 99 |
| 78) n-propylbenzene | 13.029 | 91 | 573848 | 51.306 ug/l | 100 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 366620 | 50.647 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 13.170 | 105 | 414375 | 53.097 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 59274 | 56.364 ug/l | 97 |
| 82) 4-Chlorotoluene | 13.217 | 91 | 375177 | 52.054 ug/l | 99 |
| 83) tert-Butylbenzene | 13.435 | 119 | 333841 | 50.940 ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.476 | 105 | 424105 | 54.525 ug/l | 99 |
| 85) sec-Butylbenzene | 13.611 | 105 | 467115 | 51.427 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.723 | 119 | 391206 | 48.059 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 228057 | 50.168 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.811 | 146 | 229002 | 48.601 ug/l | 98 |
| 89) n-Butylbenzene | 14.053 | 91 | 339784 | 52.144 ug/l | 99 |
| 90) Hexachloroethane | 14.329 | 117 | 80633 | 46.631 ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 226400 | 49.930 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 32340 | 53.066 ug/l | 99 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 113032 | 53.634 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 50610 | 45.233 ug/l | 99 |
| 95) Naphthalene | 15.641 | 128 | 356931 | 56.757 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 113736 | 53.337 ug/l | 97 |

Sample Results: **VN085516.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085516.D
Acq On : 27 Jan 2025 14:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

Quant Time: Jan 28 01:58:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

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

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

Quantitation Report (QT Reviewed)

Sample Results: **VN085516.D**

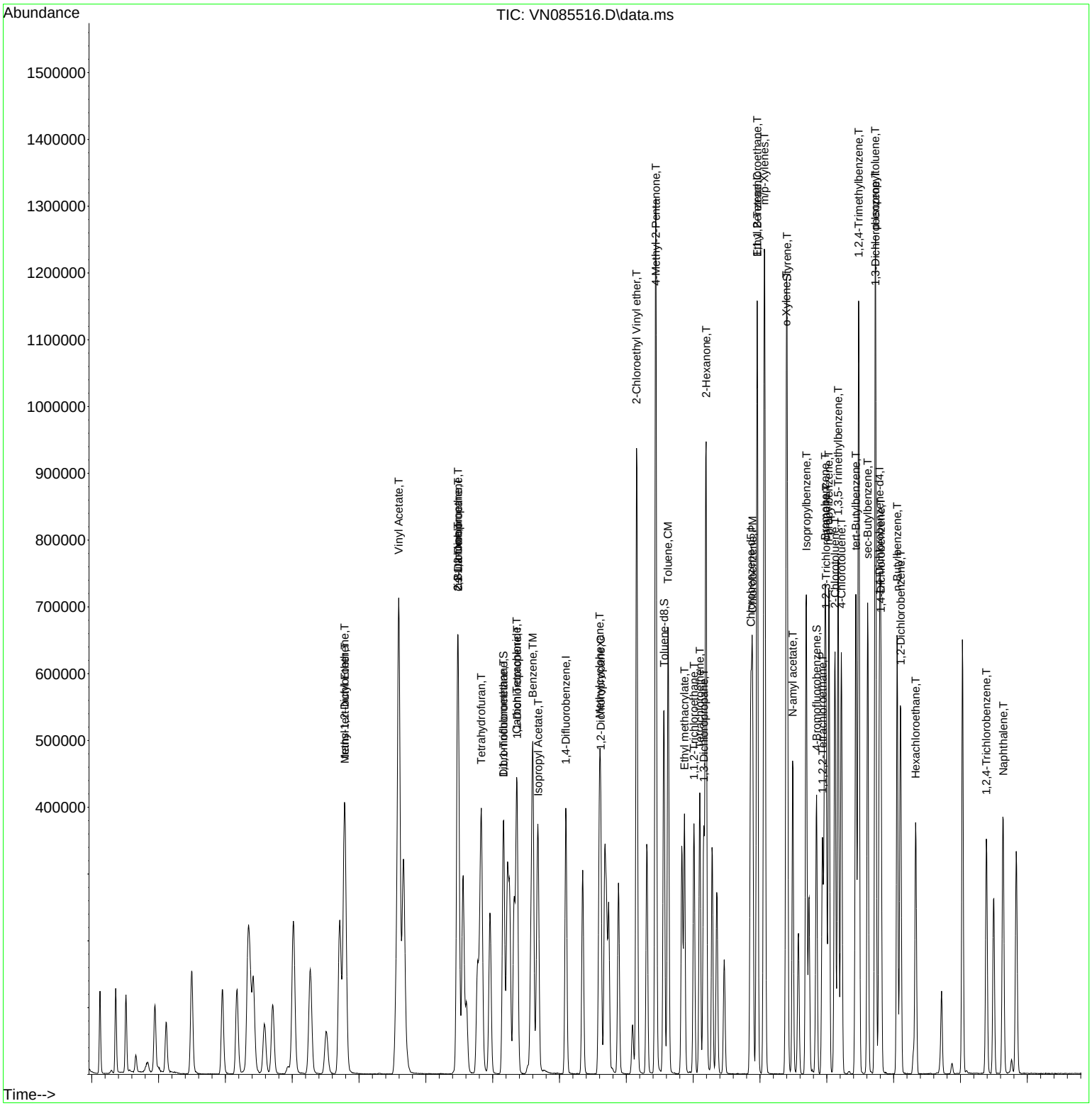
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085516.D
Acq On : 27 Jan 2025 14:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

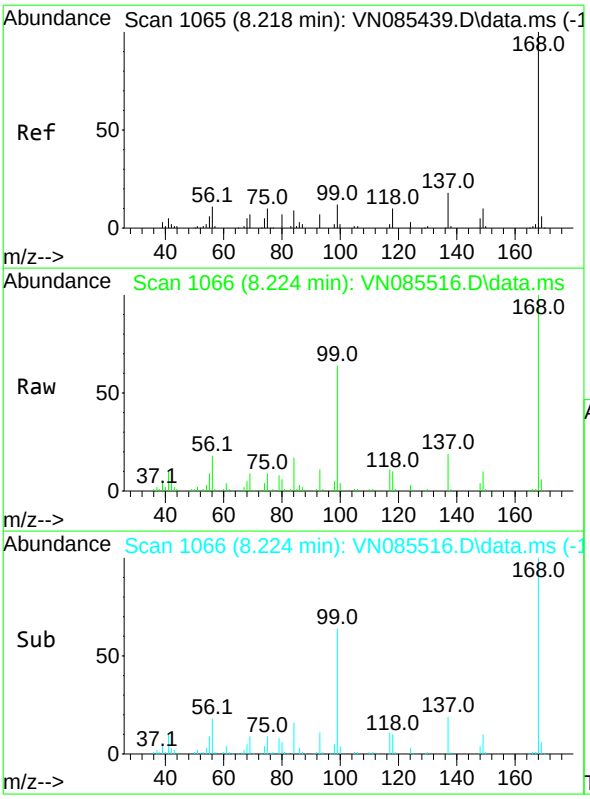
Quant Time: Jan 28 01:58:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

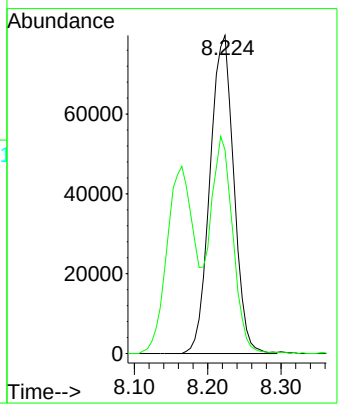
Tgt Ion:168 Resp: 179985

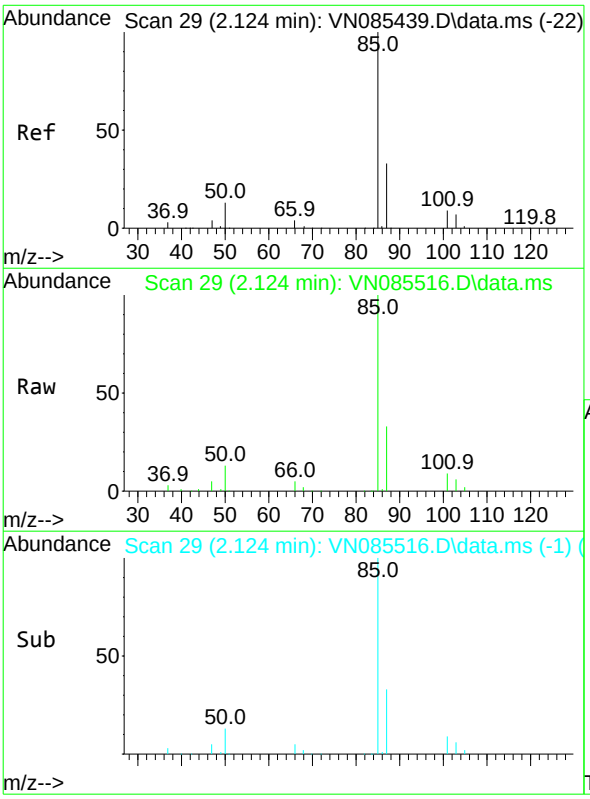
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.7 | 53.6 | 80.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

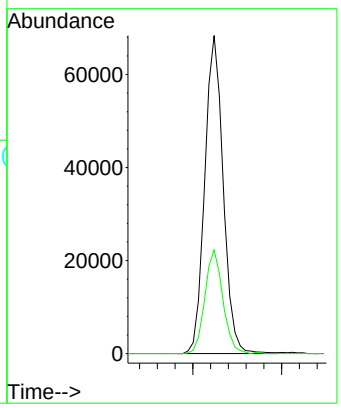


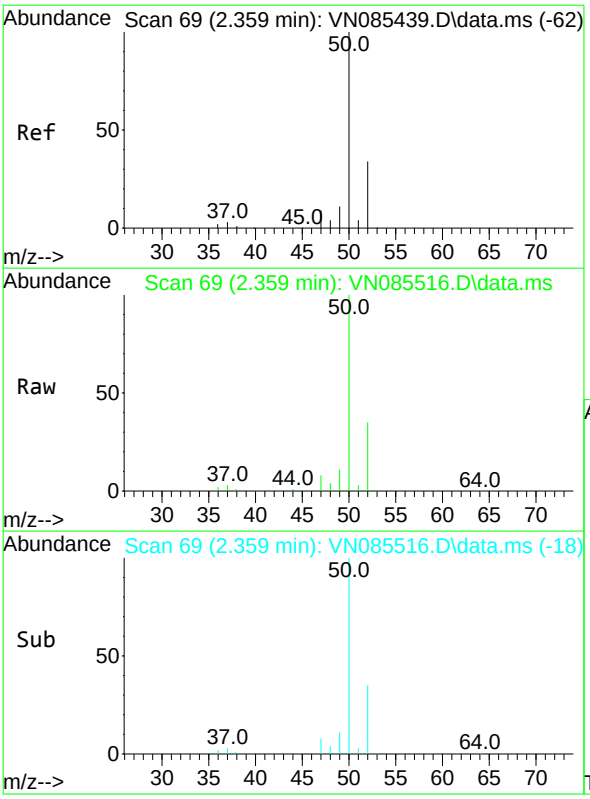




#2
Dichlorodifluoromethane
Concen: 40.416 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 85 Resp: 98492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.6 | 16.7 | 50.1 |






#3
Chloromethane
Concen: 43.600 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

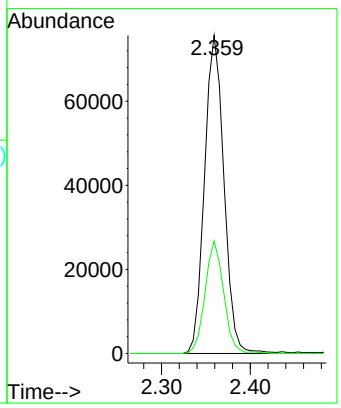
Tgt Ion: 50 Resp: 115040

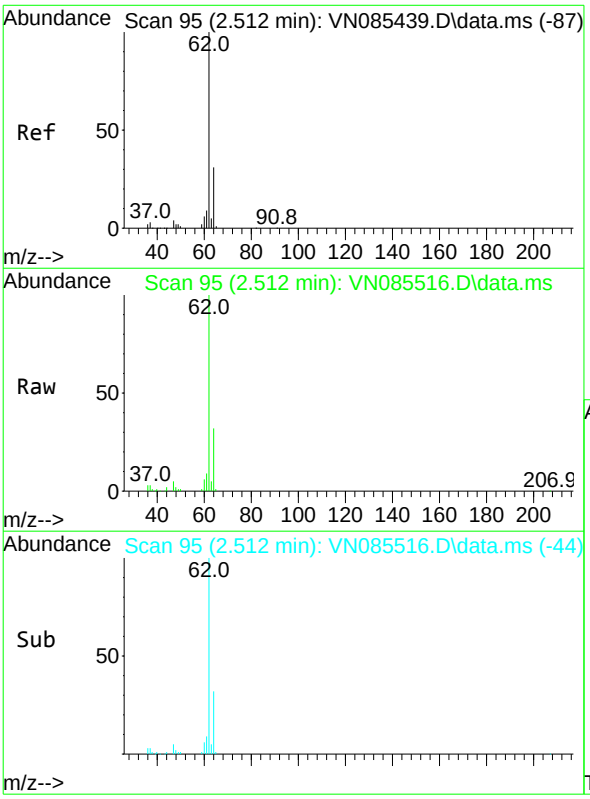
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 35.3 | 27.0 | 40.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

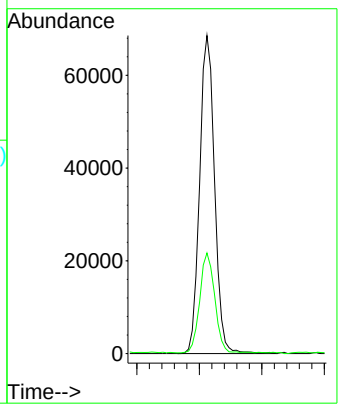


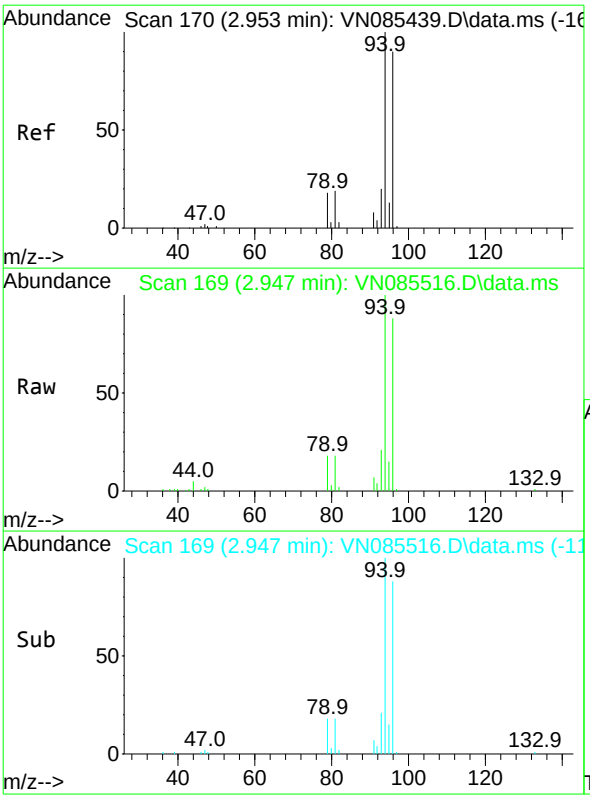




#4
Vinyl Chloride
Concen: 42.942 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 62 Resp: 113887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.4 | 24.8 | 37.2 |






#5
Bromomethane
Concen: 48.552 ug/l
RT: 2.947 min Scan# 16
Delta R.T. -0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

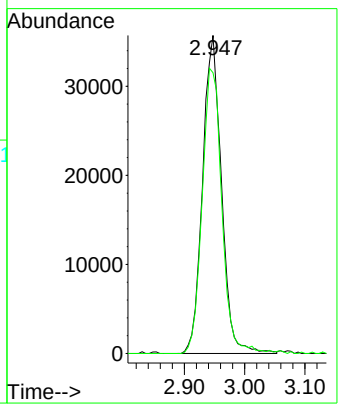
Tgt Ion: 94 Resp: 77780

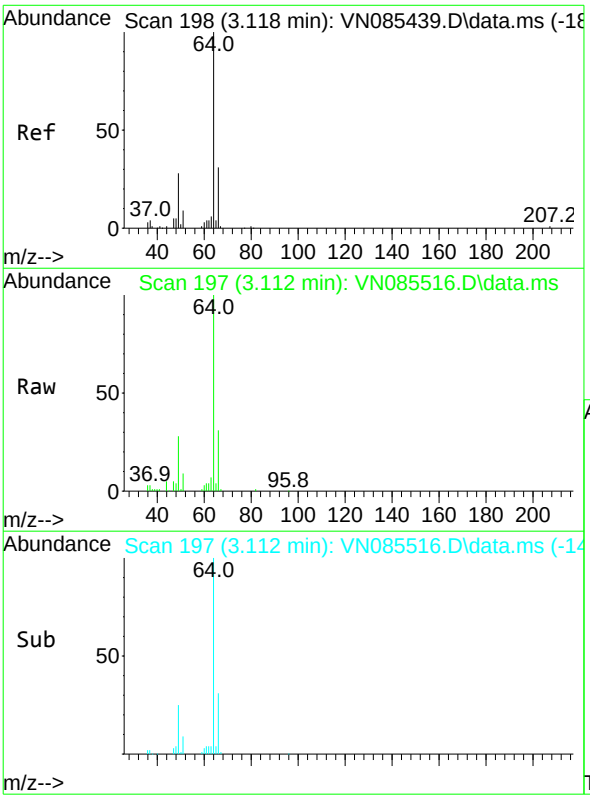
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 88.3 | 71.8 | 107.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

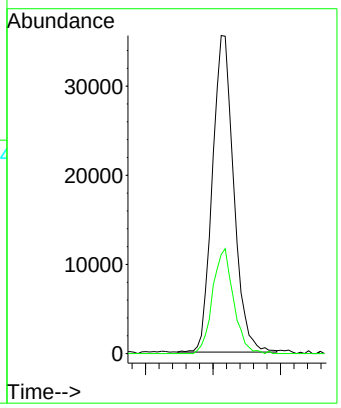


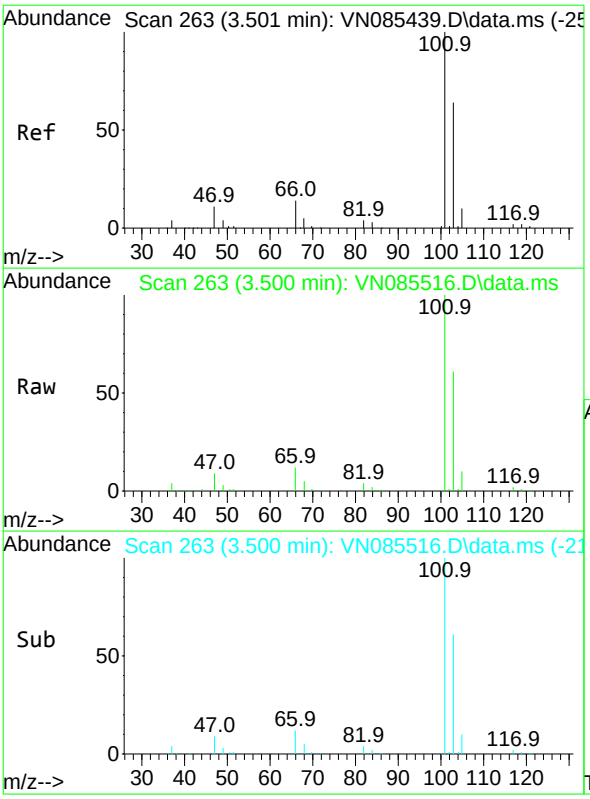




#6
Chloroethane
Concen: 46.485 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 64 Resp: 78161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.3 | 24.6 | 36.8 |






#7
Trichlorofluoromethane
Concen: 45.038 ug/l
RT: 3.500 min Scan# 26
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

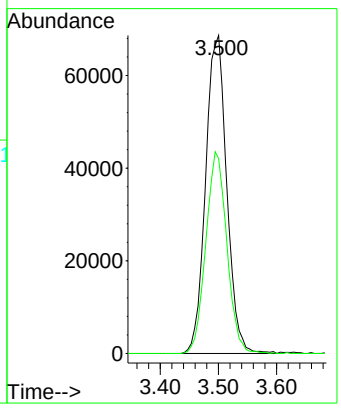
Tgt Ion:101 Resp: 173314

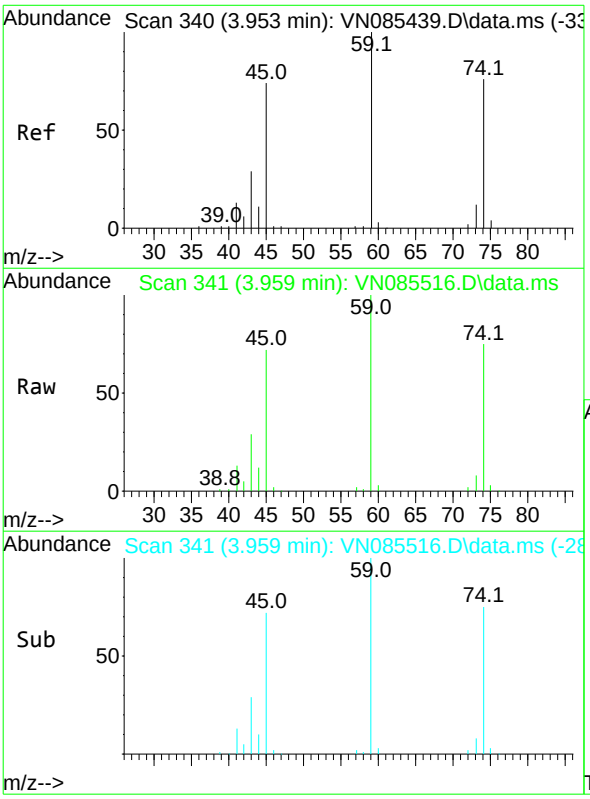
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 61.3 | 51.4 | 77.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

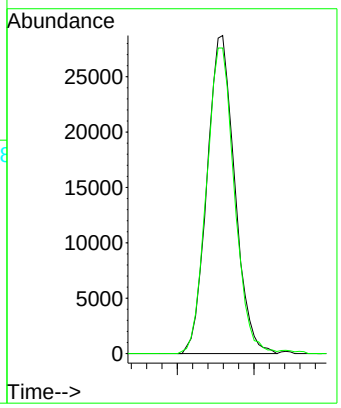


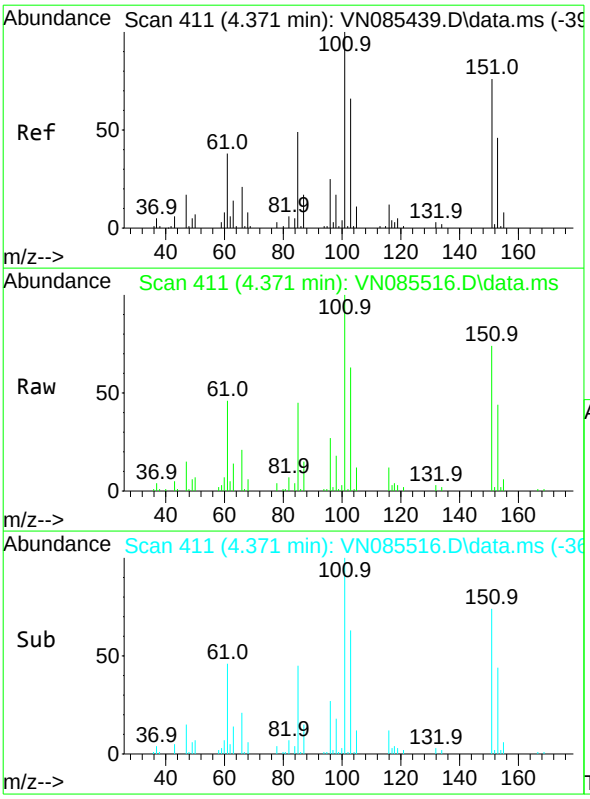




#8
Diethyl Ether
Concen: 54.034 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 74 Resp: 71832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 97.1 | 49.7 | 149.1 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 43.494 ug/l
RT: 4.371 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

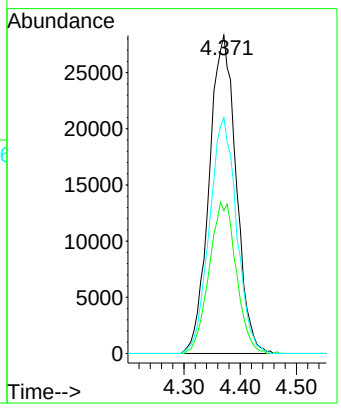
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

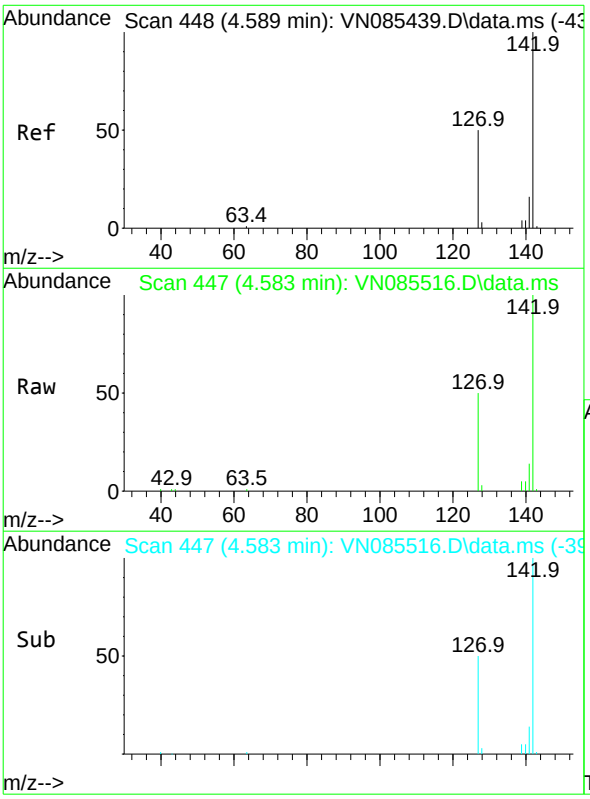
Tgt Ion:101 Resp: 94271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.9 | 37.8 | 56.8 |
| 151 | 74.7 | 58.8 | 88.2 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

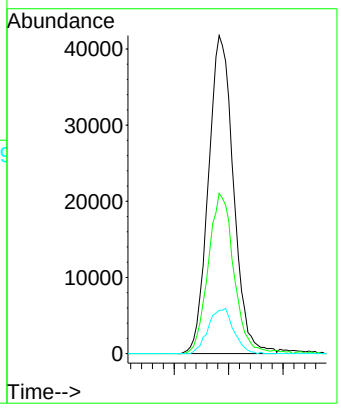


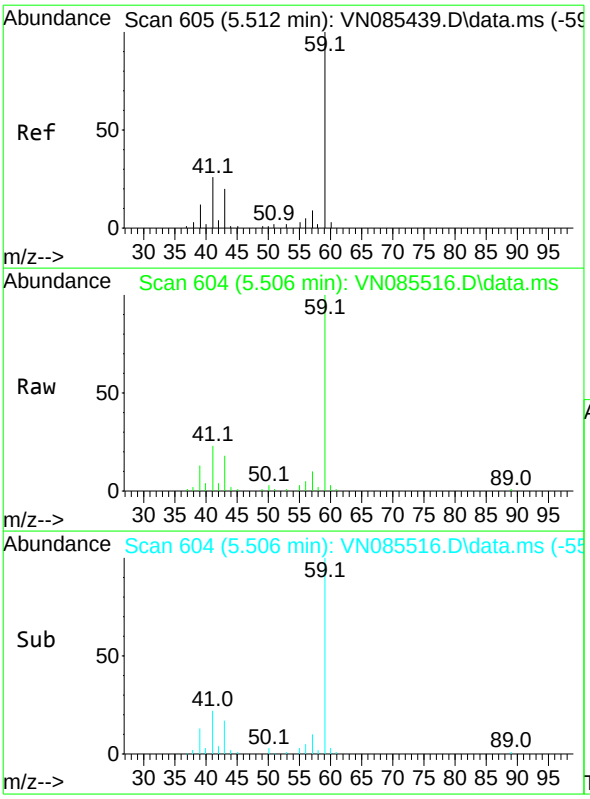




#10
Methyl Iodide
Concen: 53.794 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:142 Resp: 133520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 50.4 | 40.3 | 60.5 |
| 141 | 13.6 | 12.8 | 19.2 |






#11
Tert butyl alcohol
Concen: 336.724 ug/l
RT: 5.506 min Scan# 60
Delta R.T. -0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

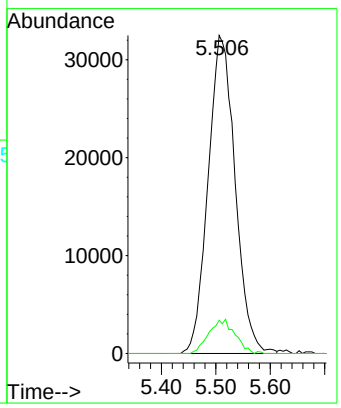
Tgt Ion: 59 Resp: 112021

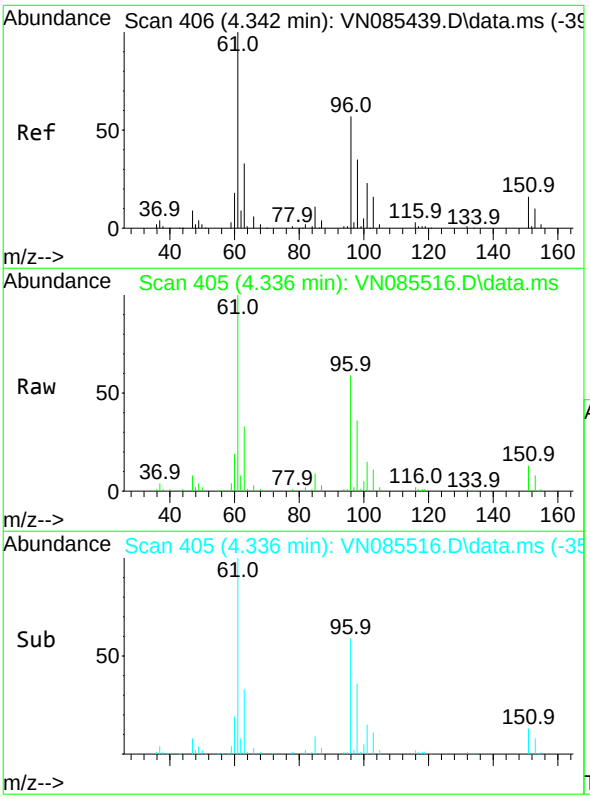
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.3 | 8.6 | 13.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

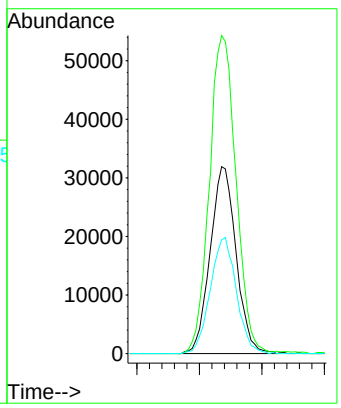


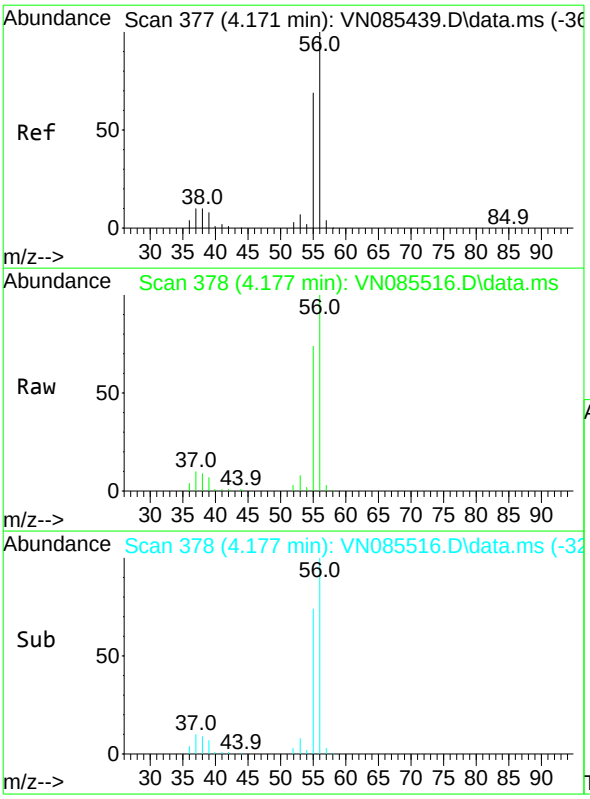




#12
1,1-Dichloroethene
Concen: 47.624 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 96 Resp: 91993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.2 | 141.0 | 211.4 |
| 98 | 60.8 | 49.0 | 73.6 |






#13
Acrolein
Concen: 353.168 ug/l
RT: 4.177 min Scan# 37
Delta R.T. 0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

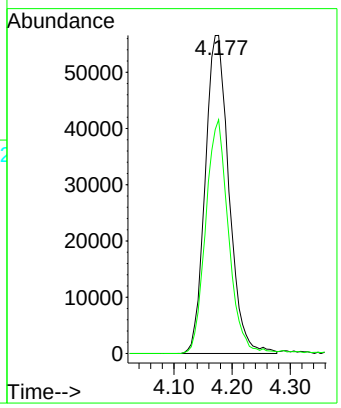
Tgt Ion: 56 Resp: 160387

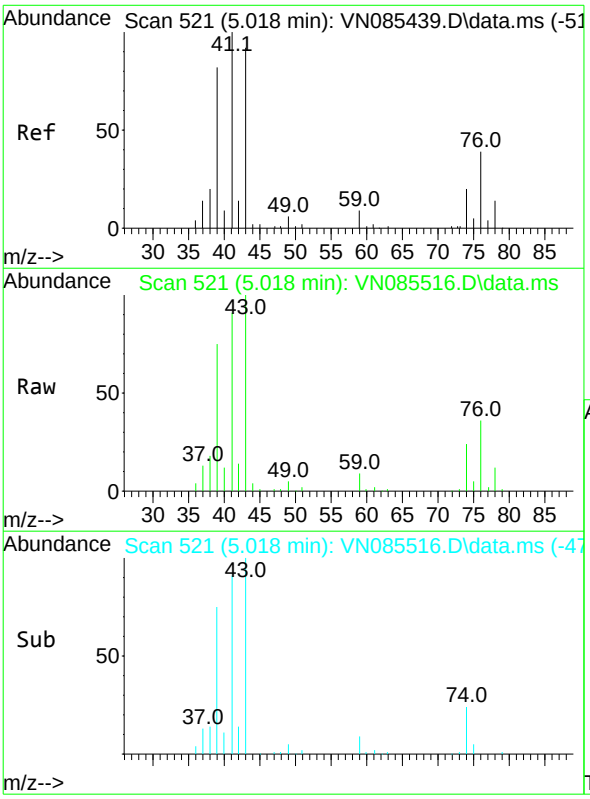
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.7 | 56.3 | 84.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

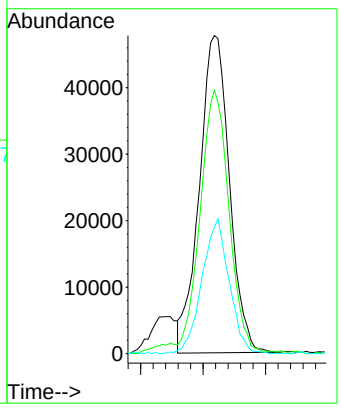


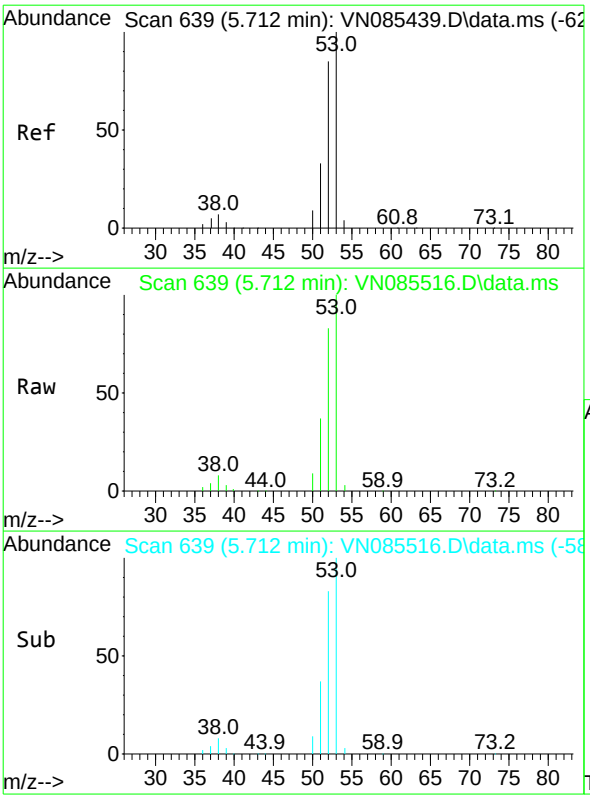




#14
Allyl chloride
Concen: 50.950 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 41 Resp: 159700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 82.1 | 64.4 | 96.6 |
| 76 | 38.4 | 30.5 | 45.7 |






#15
Acrylonitrile
Concen: 288.732 ug/l
RT: 5.712 min Scan# 63
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 53 Resp: 305102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.8 | 65.5 | 98.3 |
| 51 | 37.1 | 29.8 | 44.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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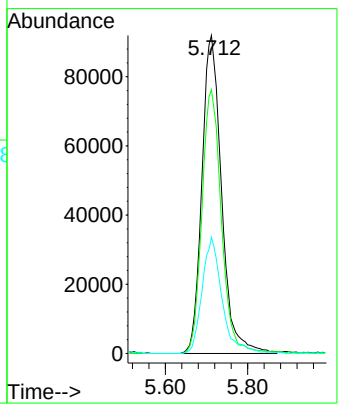
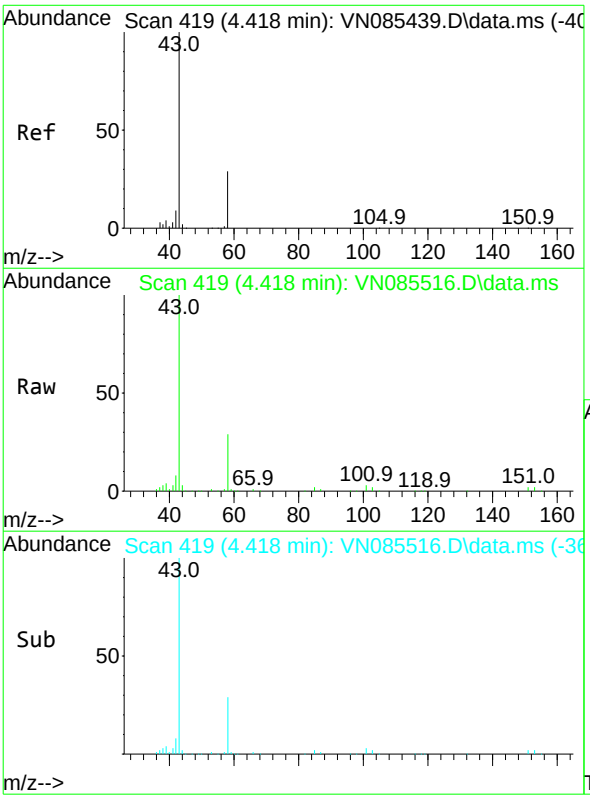
Supervised By :Mahesh Dadoda 01/28/2025

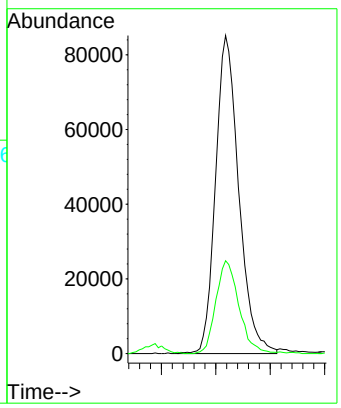


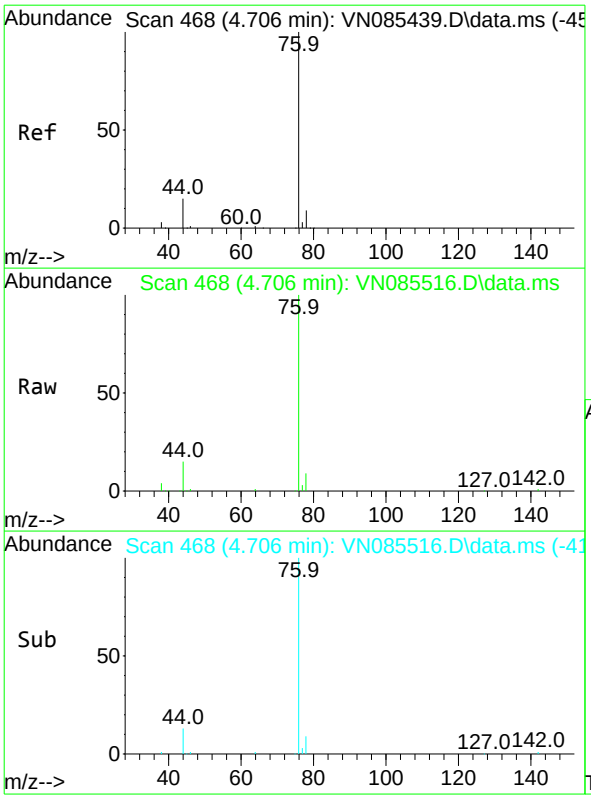




#16
Acetone
Concen: 268.940 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 43 Resp: 252464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.8 | 23.8 | 35.6 |






#17
Carbon Disulfide
Concen: 39.695 ug/l
RT: 4.706 min Scan# 46
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 76 Resp: 236084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.9 | 6.9 | 10.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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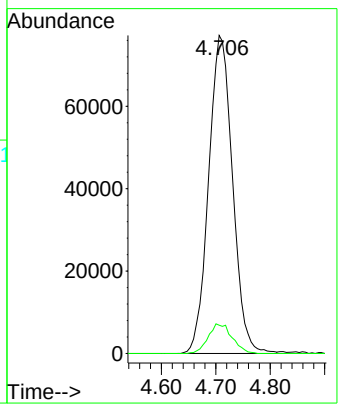
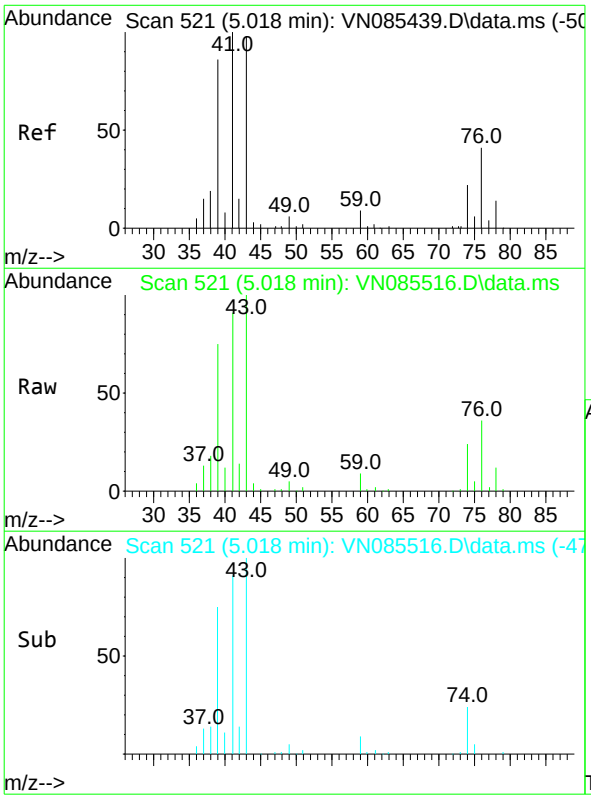
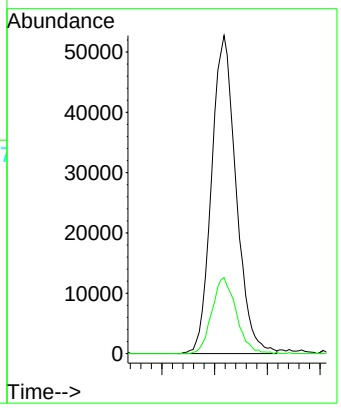


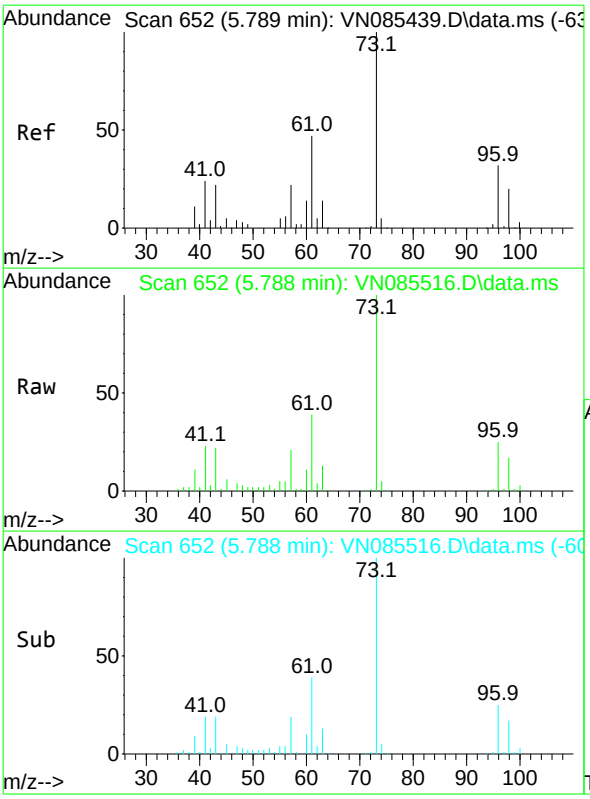




#18
Methyl Acetate
Concen: 59.834 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 43 Resp: 170799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.7 | 18.6 | 28.0 |






#19
Methyl tert-butyl Ether
Concen: 62.329 ug/l
RT: 5.788 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 73 Resp: 390940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.6 | 17.8 | 26.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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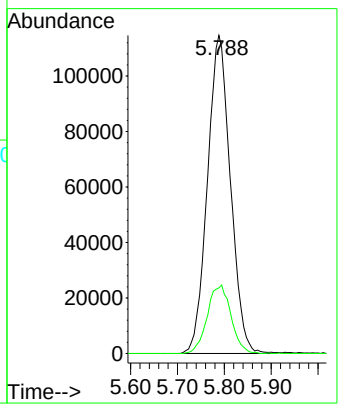
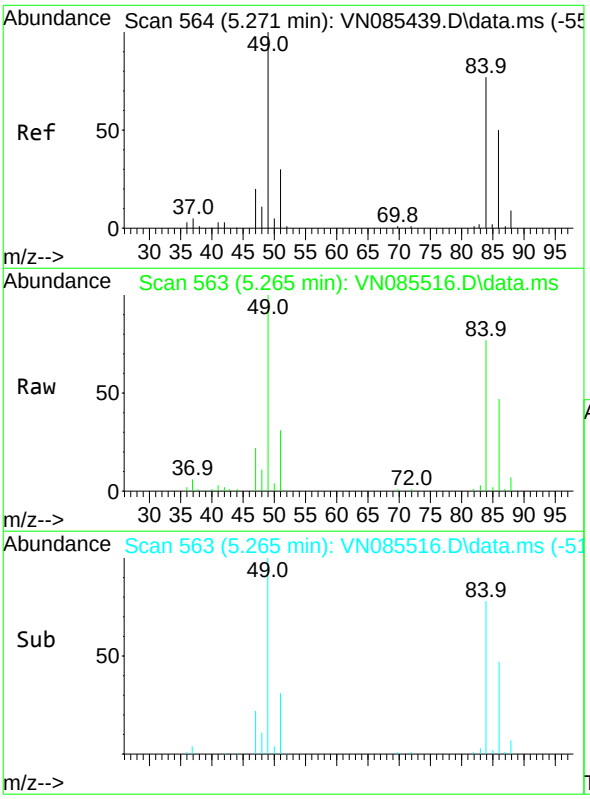
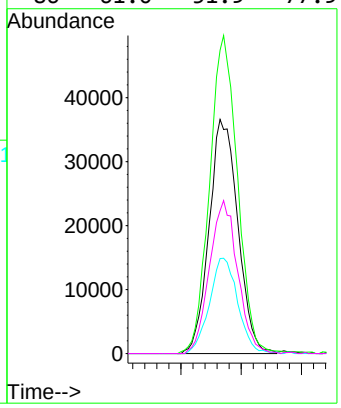


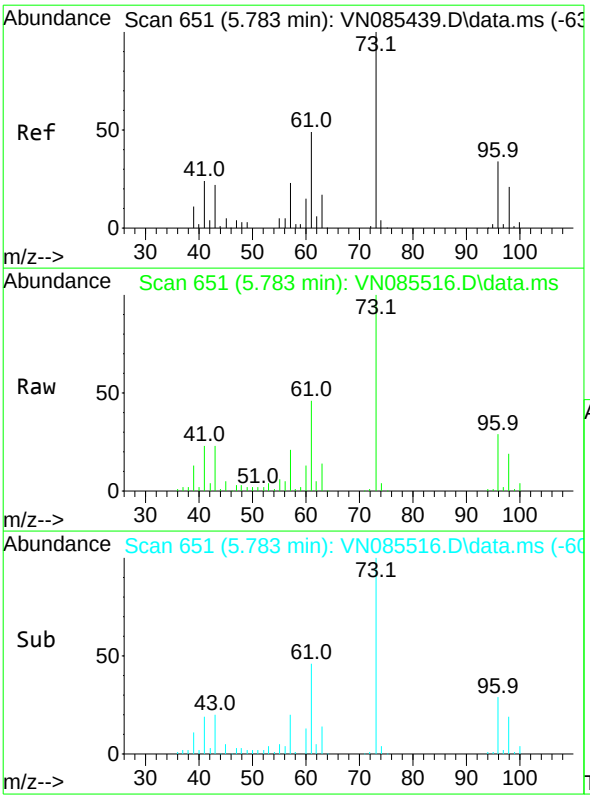




#20
Methylene Chloride
Concen: 52.169 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 84 Resp: 121237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 129.5 | 104.1 | 156.1 |
| 51 | 40.6 | 31.0 | 46.4 |
| 86 | 61.0 | 51.9 | 77.9 |






#21
trans-1,2-Dichloroethene
Concen: 48.496 ug/l
RT: 5.783 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 96 Resp: 100114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 156.8 | 115.7 | 173.5 |
| 98 | 64.3 | 49.8 | 74.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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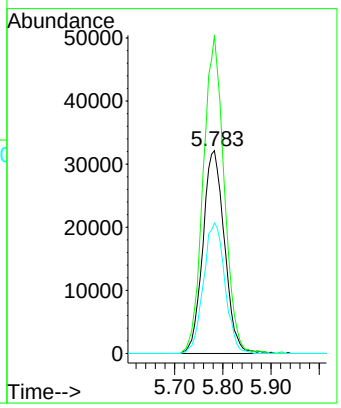
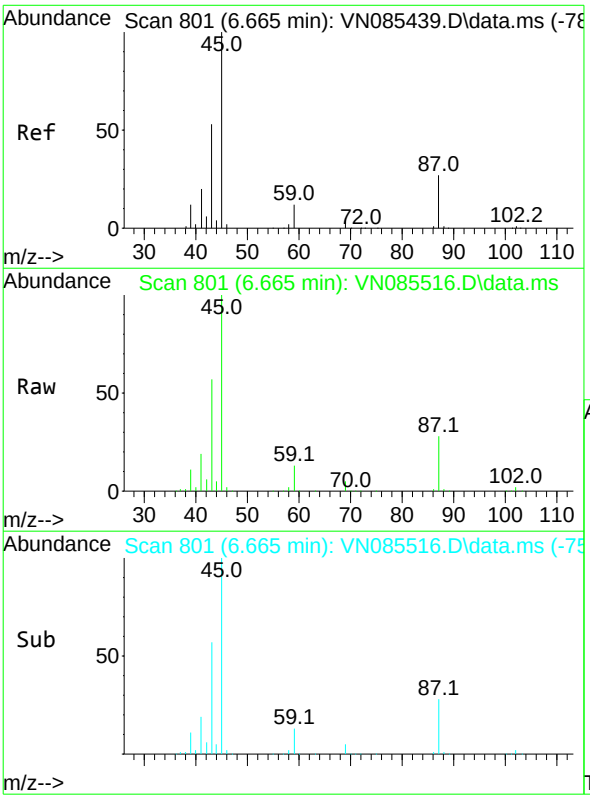
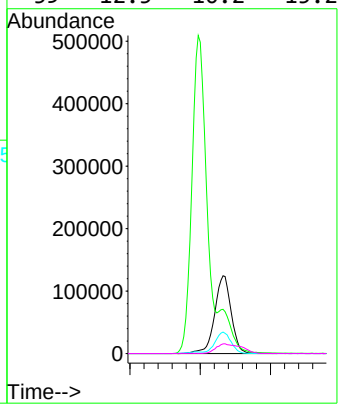


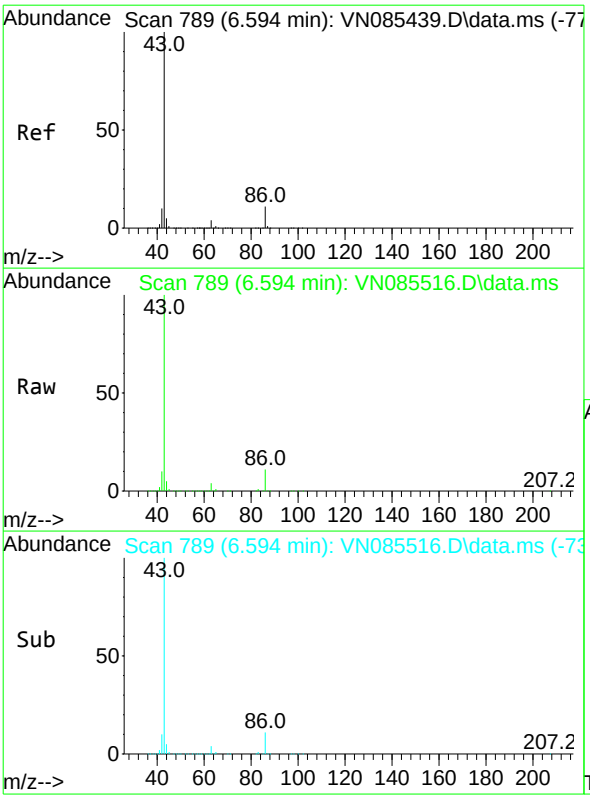




#22
Diisopropyl ether
Concen: 58.486 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 45 Resp: 406897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 56.3 | 45.0 | 67.6 |
| 87 | 27.6 | 21.8 | 32.8 |
| 59 | 12.5 | 10.2 | 15.2 |






#23
Vinyl Acetate
Concen: 299.808 ug/l
RT: 6.594 min Scan# 78
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 43 Resp: 1459713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.7 | 8.4 | 12.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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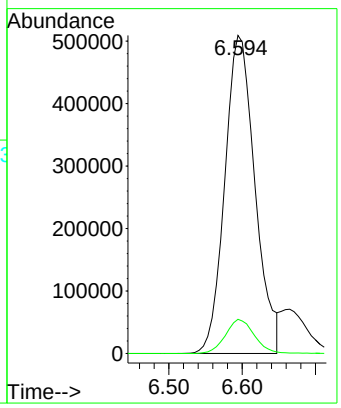
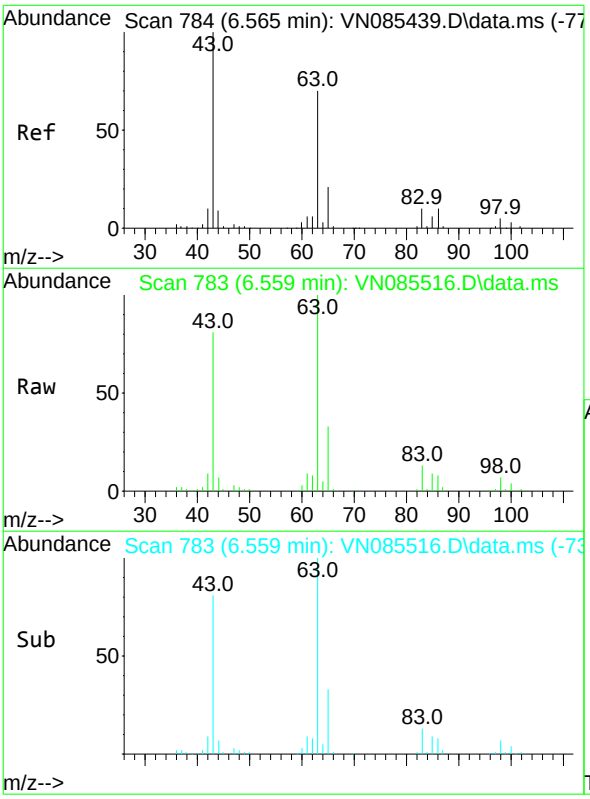
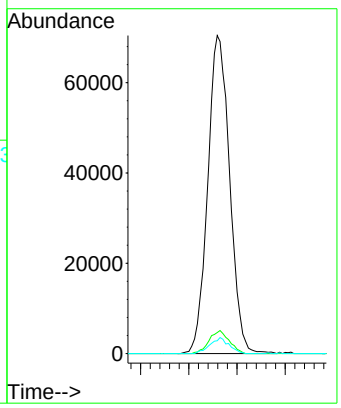


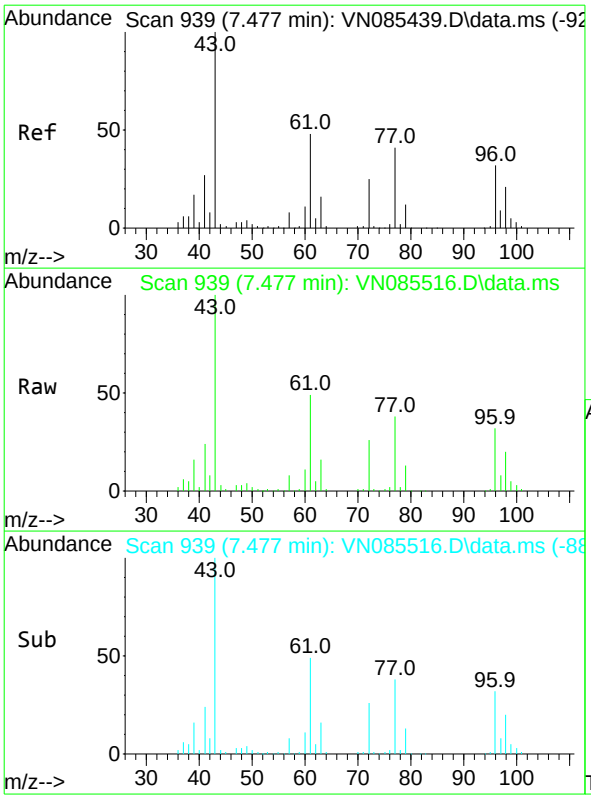




#24
1,1-Dichloroethane
Concen: 52.404 ug/l
RT: 6.559 min Scan# 783
Delta R.T. -0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 63 Resp: 222305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.6 | 3.3 | 9.8 |
| 100 | 4.0 | 2.0 | 6.0 |






#25
2-Butanone
Concen: 282.299 ug/l
RT: 7.477 min Scan# 93
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 43 Resp: 389978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.0 | 20.2 | 30.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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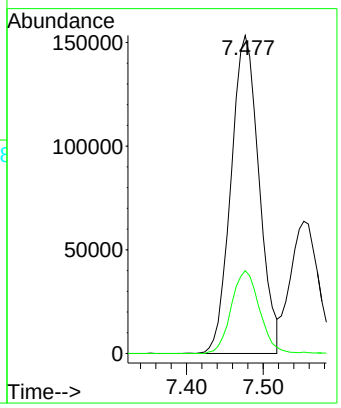
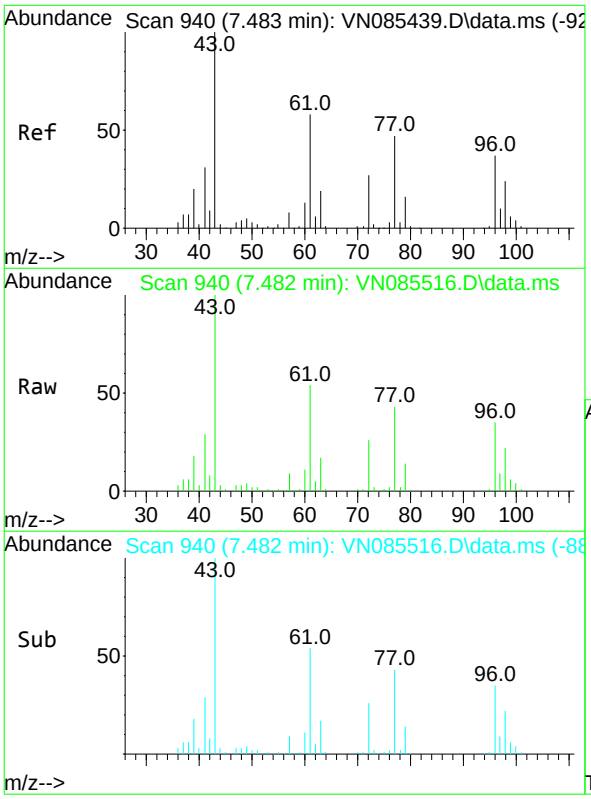
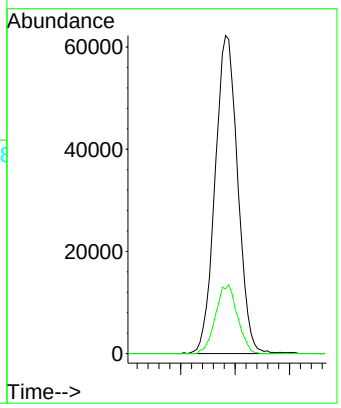


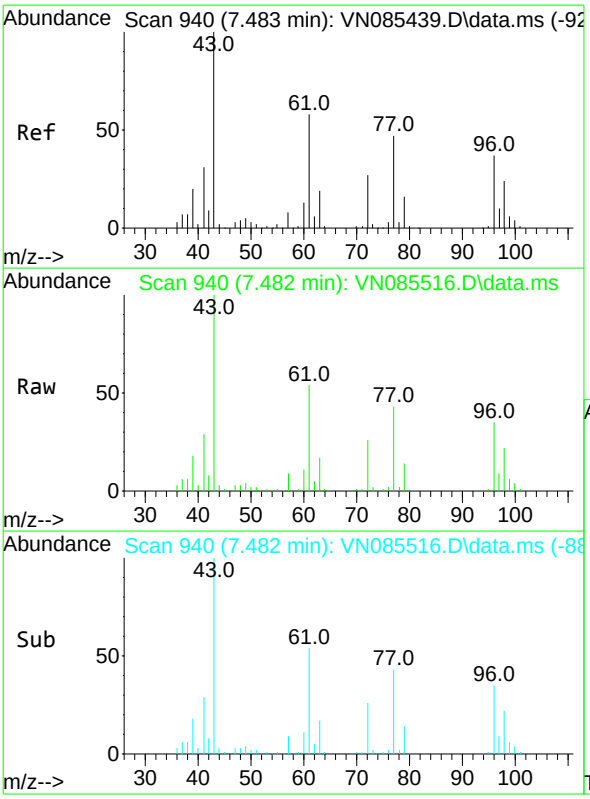




#26
2,2-Dichloropropane
Concen: 52.477 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 77 Resp: 179985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 20.8 | 10.7 | 32.1 |






#27
cis-1,2-Dichloroethene
Concen: 53.882 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 96 Resp: 131013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 155.7 | 0.0 | 311.8 |
| 98 | 64.2 | 0.0 | 126.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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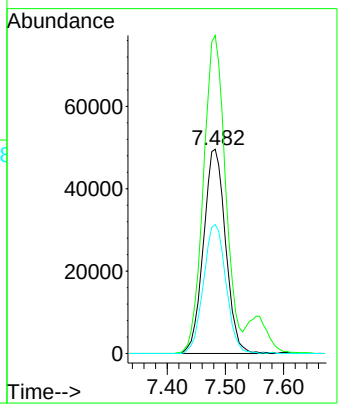
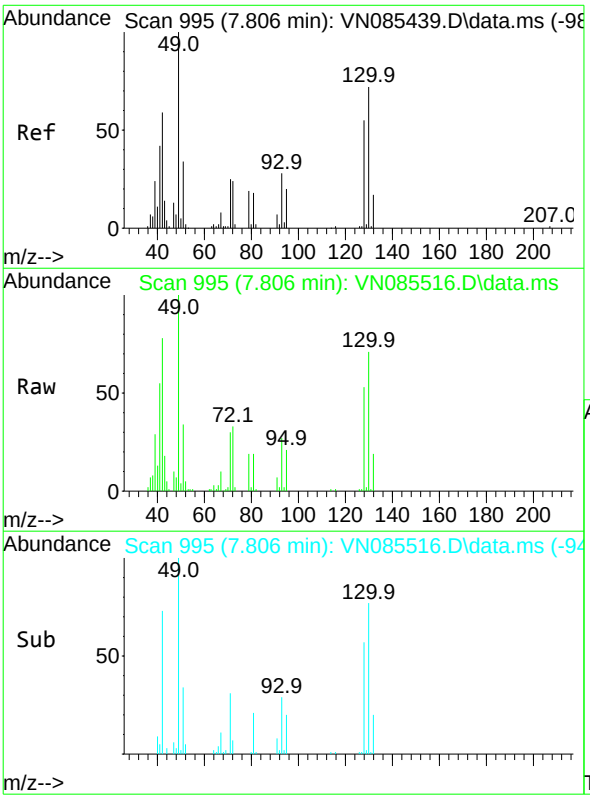
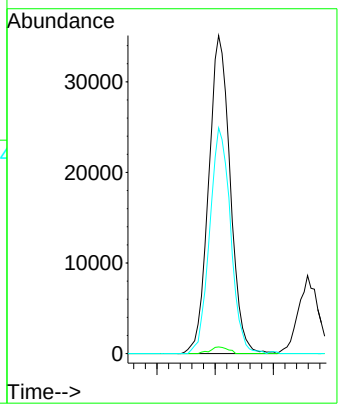


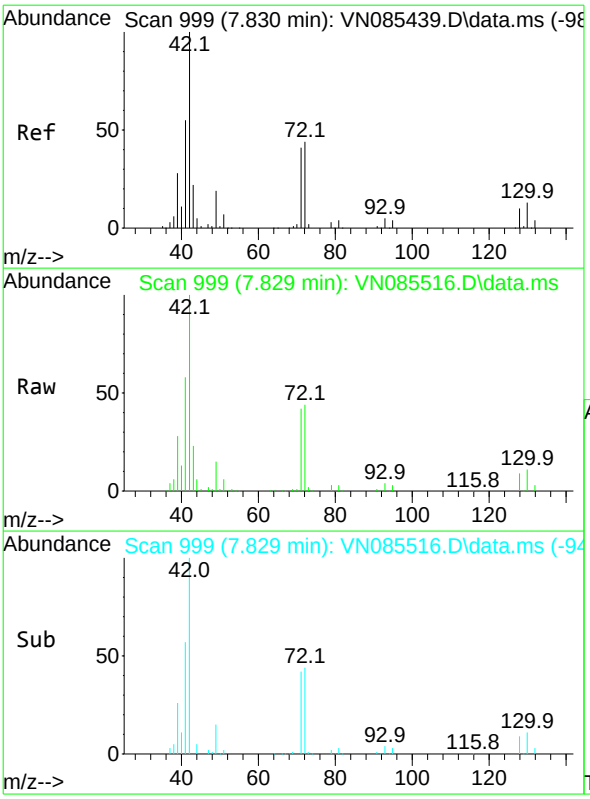




#28
Bromochloromethane
Concen: 45.830 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 49 Resp: 90452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.7 | 0.0 | 4.4 |
| 130 | 68.8 | 55.0 | 82.4 |






#29
Tetrahydrofuran
Concen: 296.615 ug/l
RT: 7.829 min Scan# 99
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 42 Resp: 259786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.9 | 34.2 | 51.2 |
| 71 | 40.2 | 32.5 | 48.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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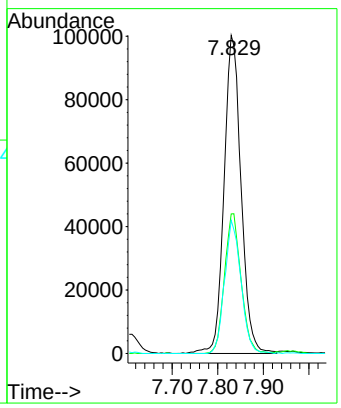
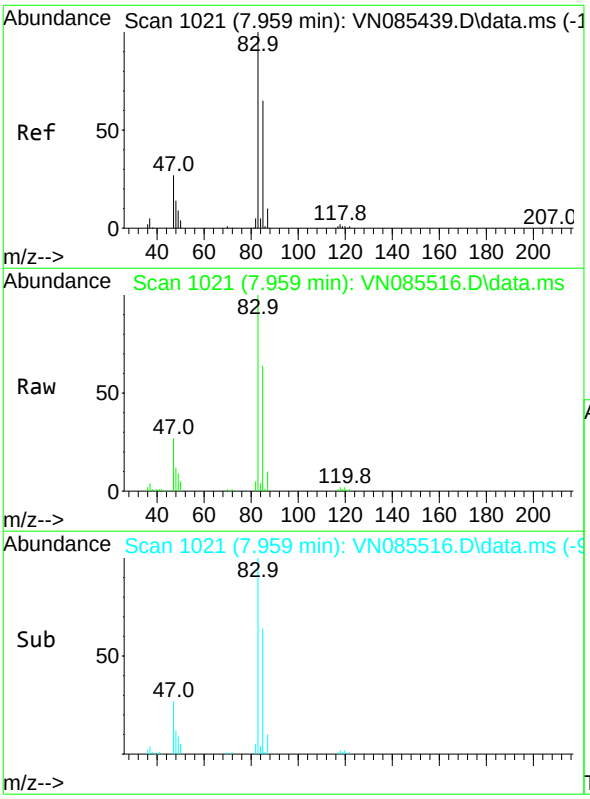
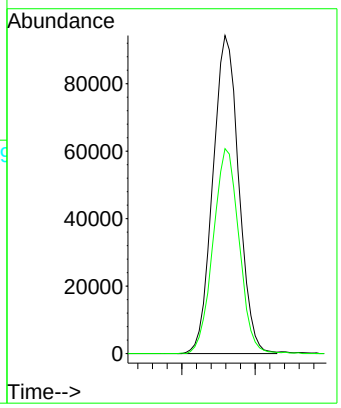


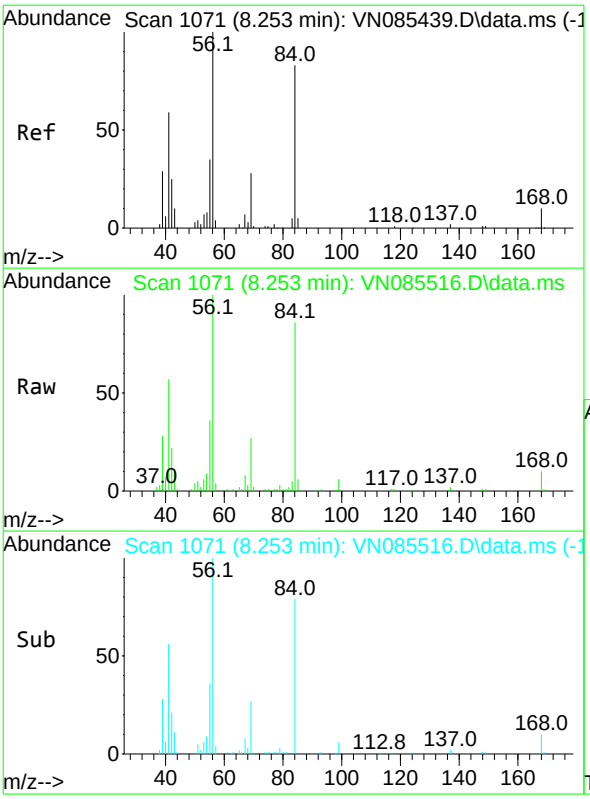




#30
Chloroform
Concen: 52.690 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 83 Resp: 231016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.4 | 51.8 | 77.6 |






#31
Cyclohexane
Concen: 40.242 ug/l
RT: 8.253 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 148377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 27.5 | 22.2 | 33.4 |
| 84 | 83.9 | 66.4 | 99.6 |

**Manual Integrations**
**APPROVED**

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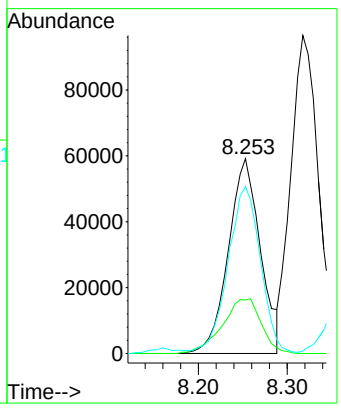
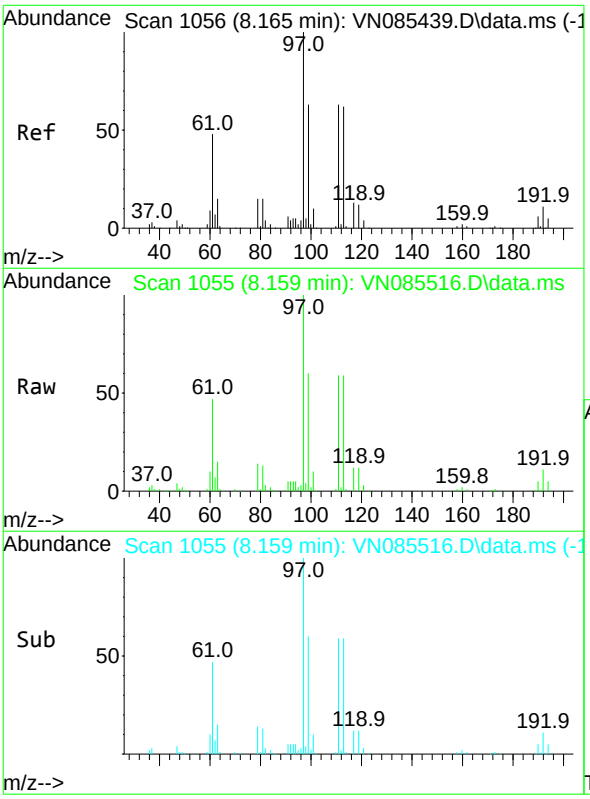
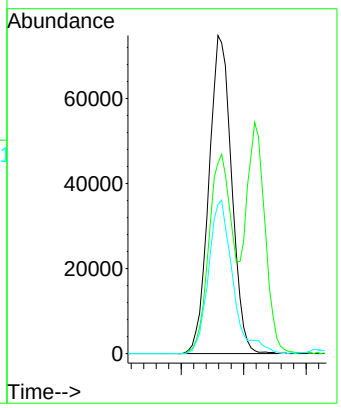


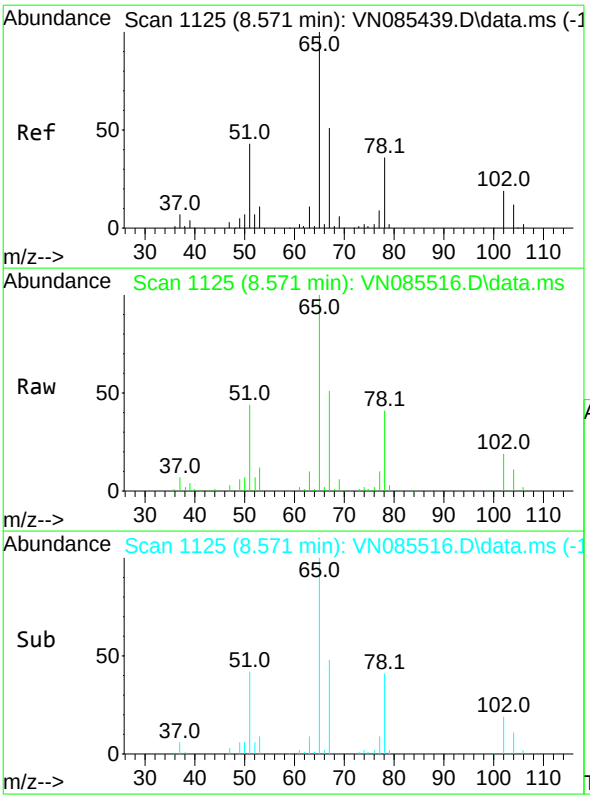




#32
1,1,1-Trichloroethane
Concen: 49.141 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 97 Resp: 188991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.6 | 49.8 | 74.6 |
| 61 | 51.4 | 41.4 | 62.2 |






#33
1,2-Dichloroethane-d4
Concen: 51.339 ug/l
RT: 8.571 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

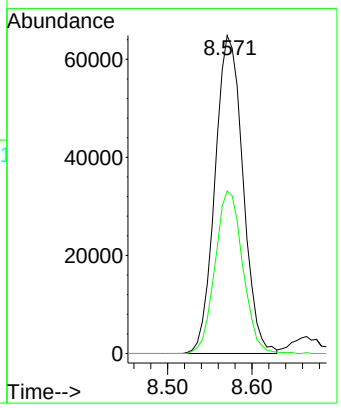
Tgt Ion: 65 Resp: 149158

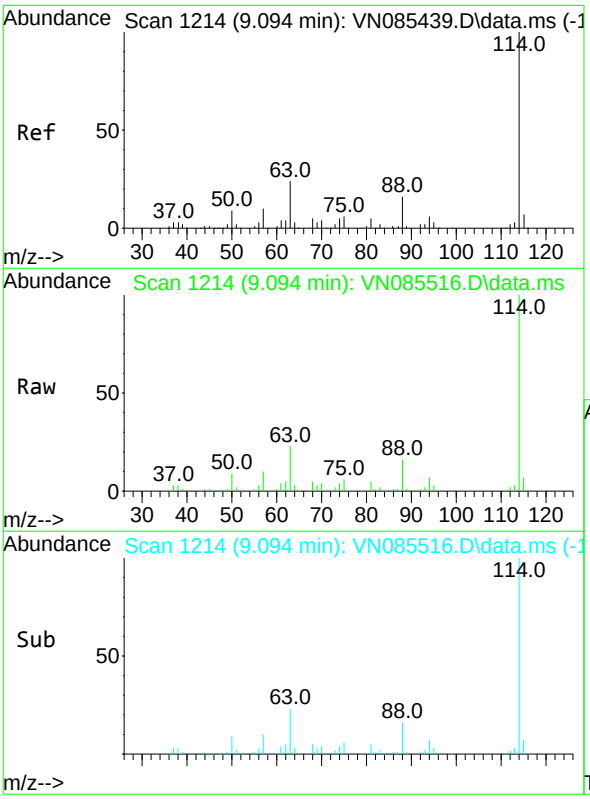
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.7 | 0.0 | 101.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

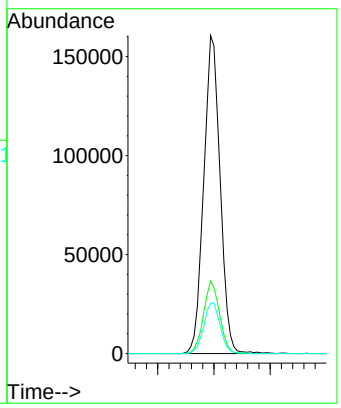


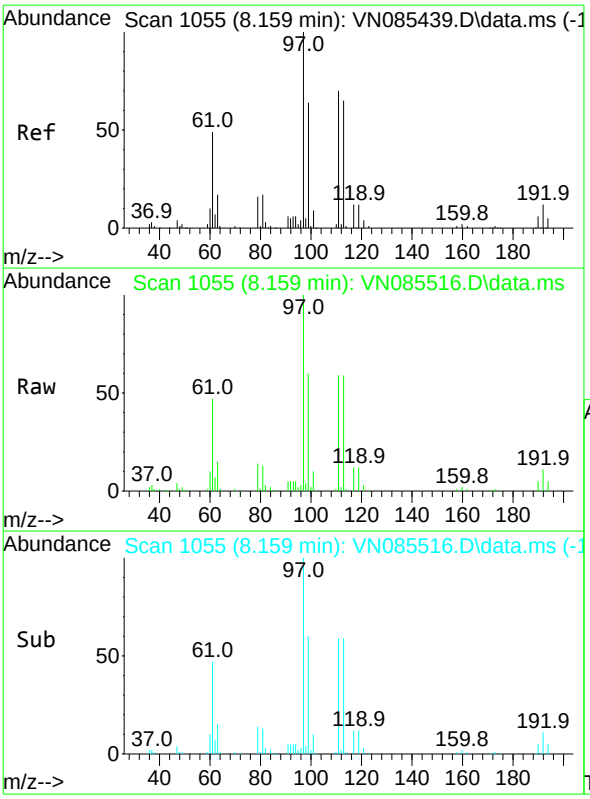




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:114 Resp: 325755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.8 | 0.0 | 47.6 |
| 88 | 15.8 | 0.0 | 32.6 |






#35
Dibromofluoromethane
Concen: 47.131 ug/l
RT: 8.159 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:113 Resp: 106514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.3 | 82.7 | 124.1 |
| 192 | 18.3 | 14.3 | 21.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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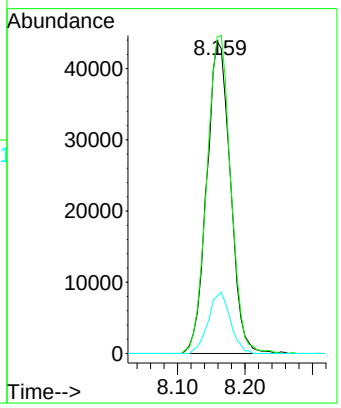
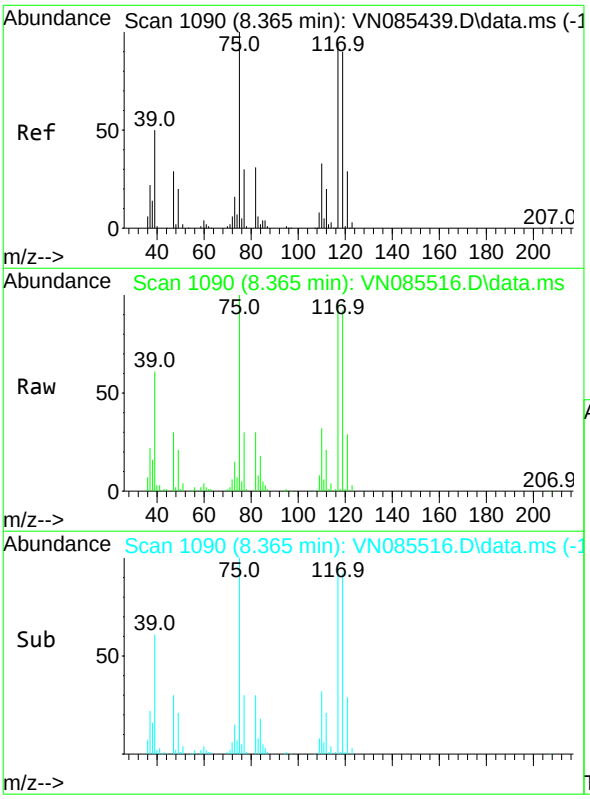
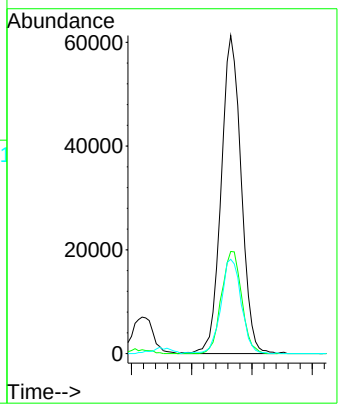


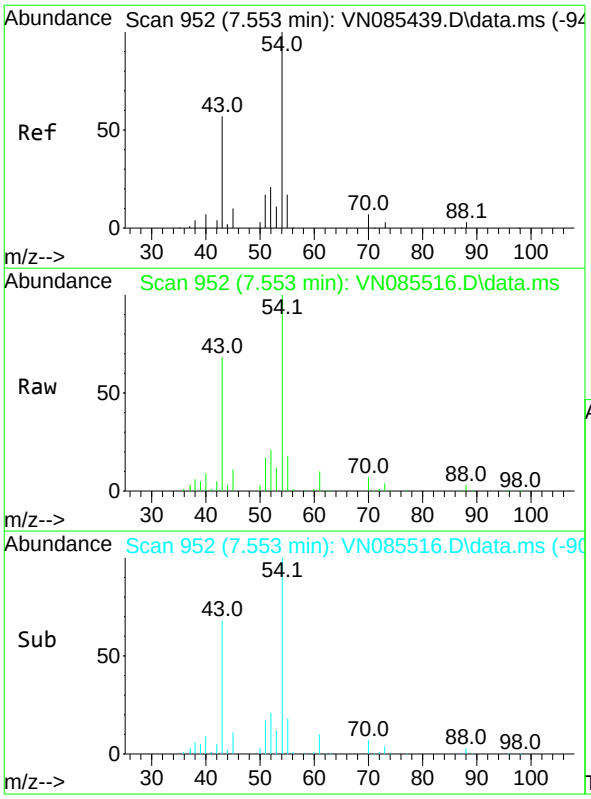




#36
1,1-Dichloropropene
Concen: 44.609 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 75 Resp: 141489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 32.4 | 16.5 | 49.5 |
| 77 | 30.1 | 24.4 | 36.6 |






#37
Ethyl Acetate
Concen: 52.636 ug/l
RT: 7.553 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 43 Resp: 168512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.5 | 10.9 | 16.3 |
| 70 | 10.3 | 7.5 | 11.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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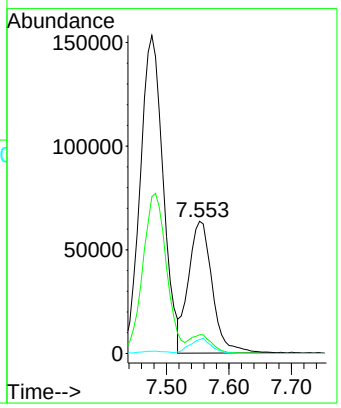
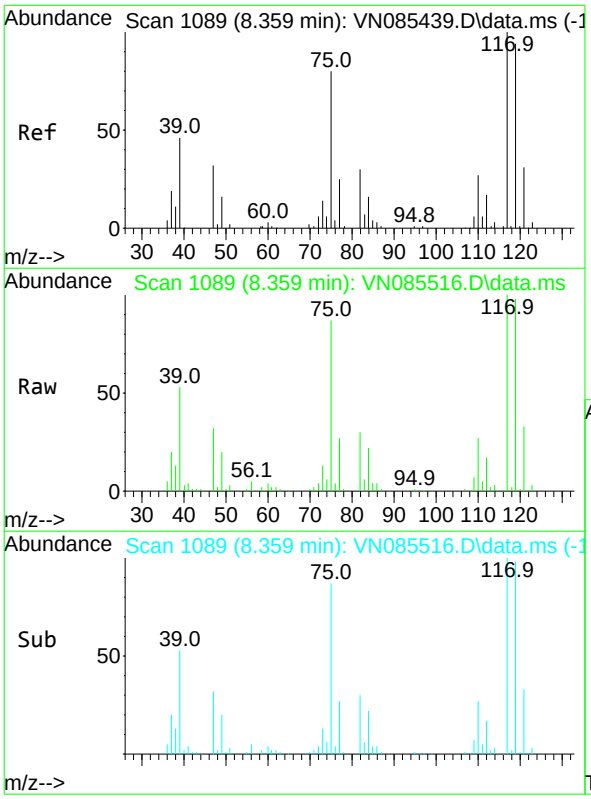
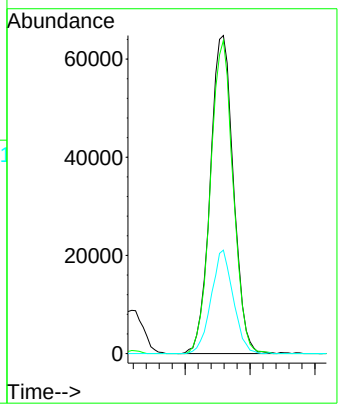


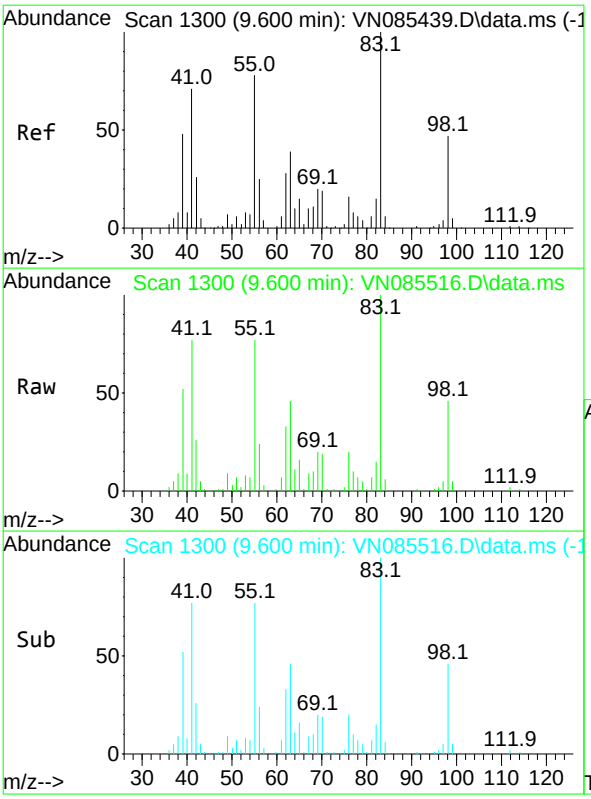




#38
Carbon Tetrachloride
Concen: 44.219 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:117 Resp: 160567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.5 | 75.4 | 113.2 |
| 121 | 32.5 | 24.6 | 37.0 |






#39
Methylcyclohexane
Concen: 43.668 ug/l
RT: 9.600 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 83 Resp: 130155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.2 | 62.6 | 94.0 |
| 98 | 46.5 | 37.7 | 56.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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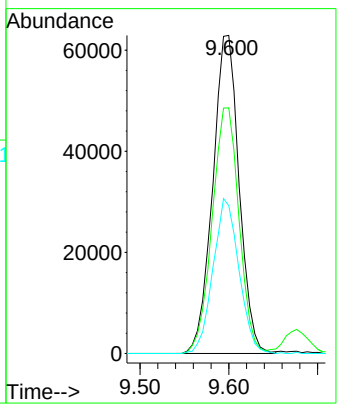
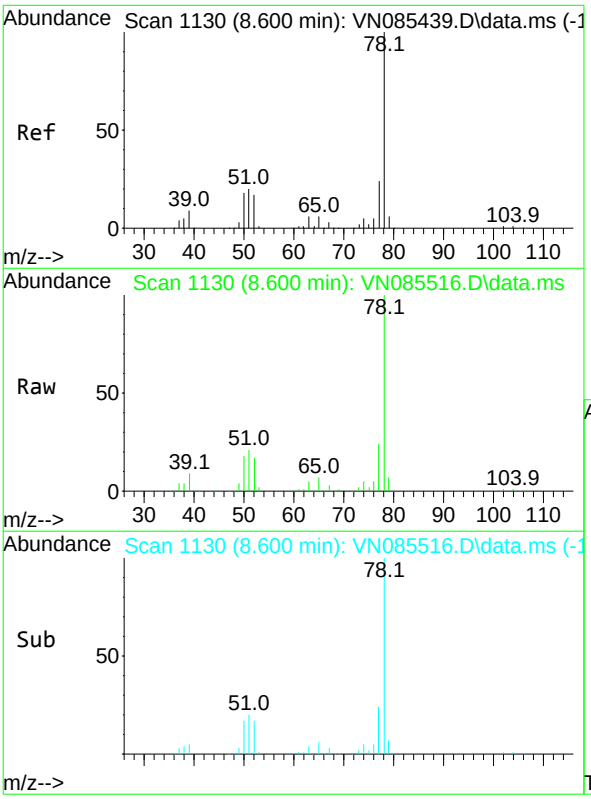
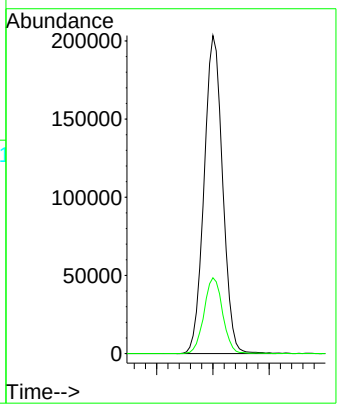


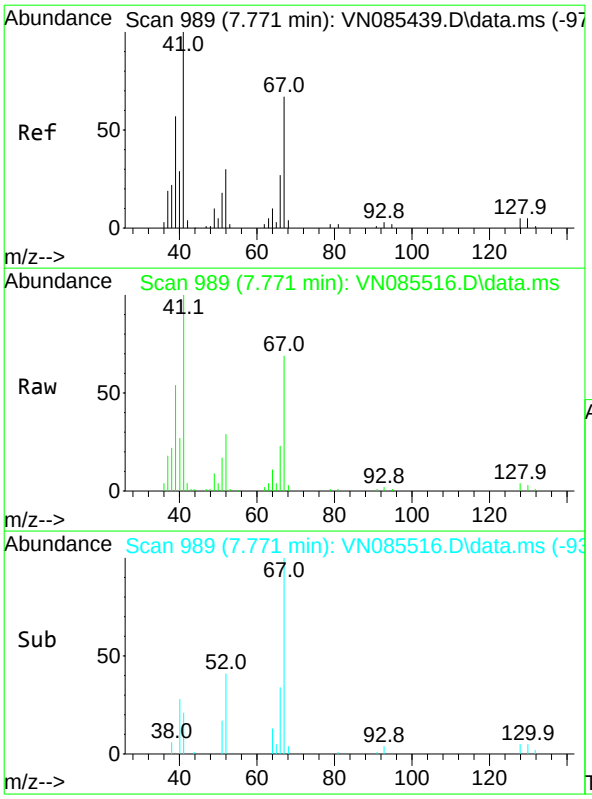




#40
Benzene
Concen: 48.872 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 78 Resp: 465760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 56.659 ug/l
RT: 7.771 min Scan# 98
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 41 Resp: 94372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 56.1 | 46.0 | 69.0 |
| 67 | 69.4 | 57.4 | 86.2 |
| 52 | 30.9 | 25.5 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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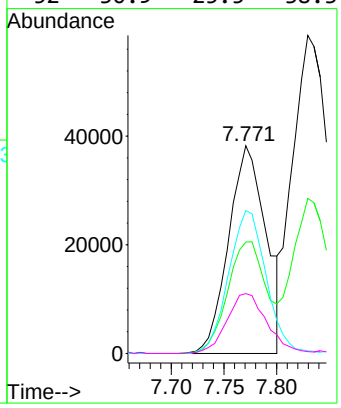
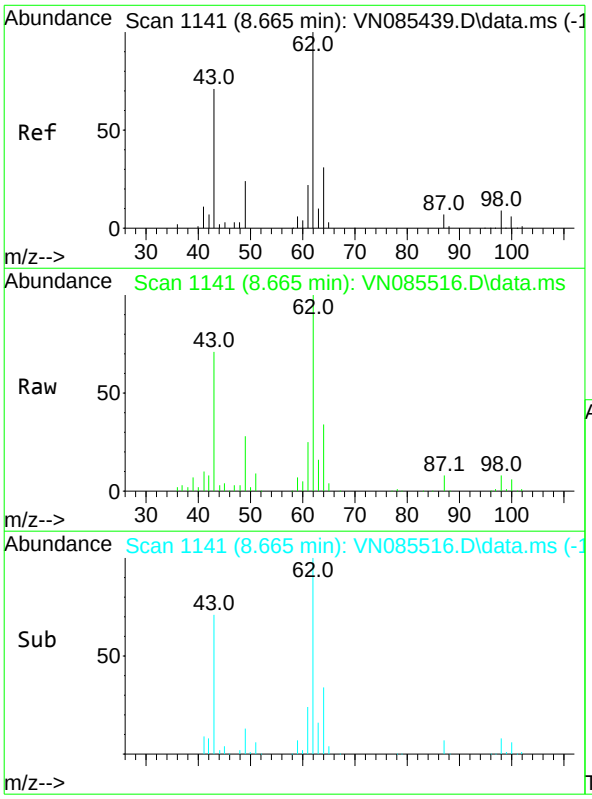
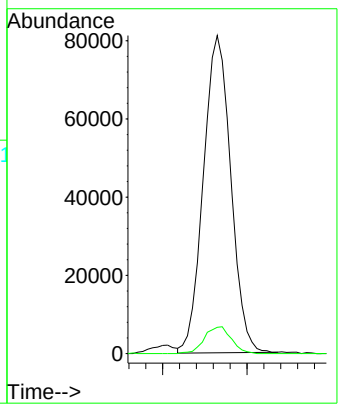


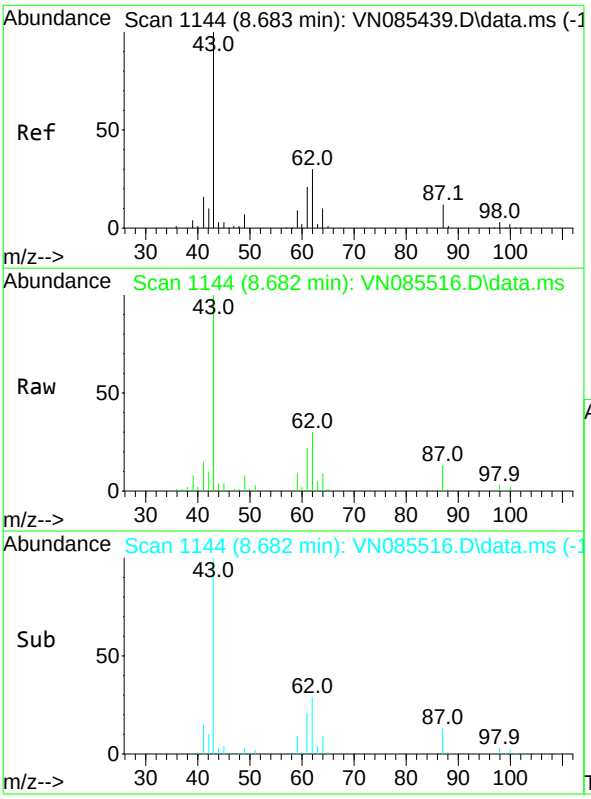




#42
1,2-Dichloroethane
Concen: 51.070 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 62 Resp: 183306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.3 | 0.0 | 17.0 |






#43
Isopropyl Acetate
Concen: 54.960 ug/l
RT: 8.682 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 43 Resp: 281936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 25.8 | 20.7 | 31.1 |
| 87 | 12.5 | 9.8 | 14.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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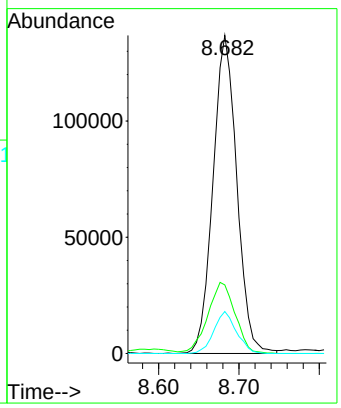
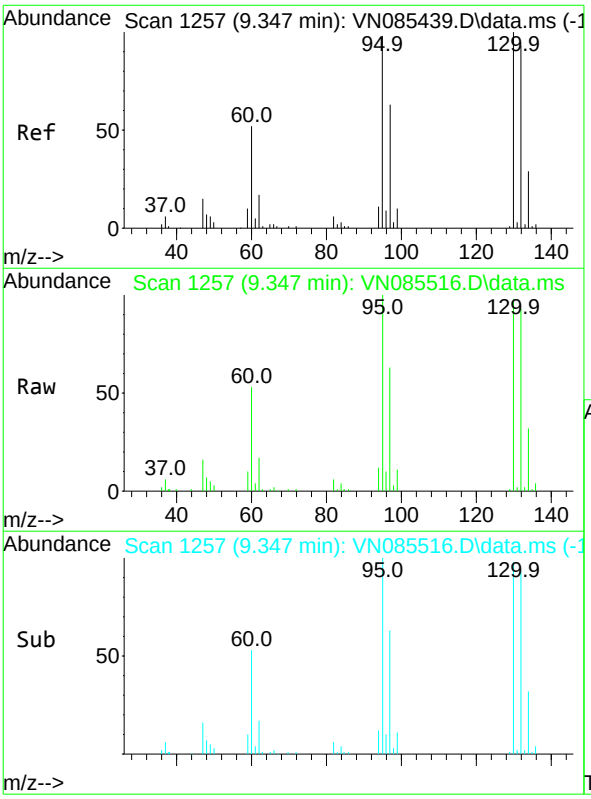
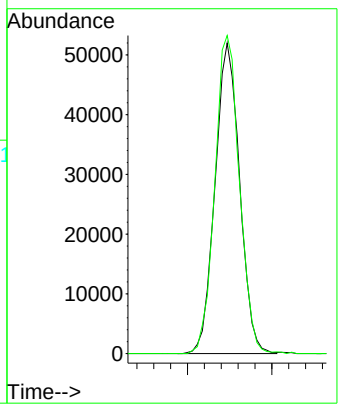


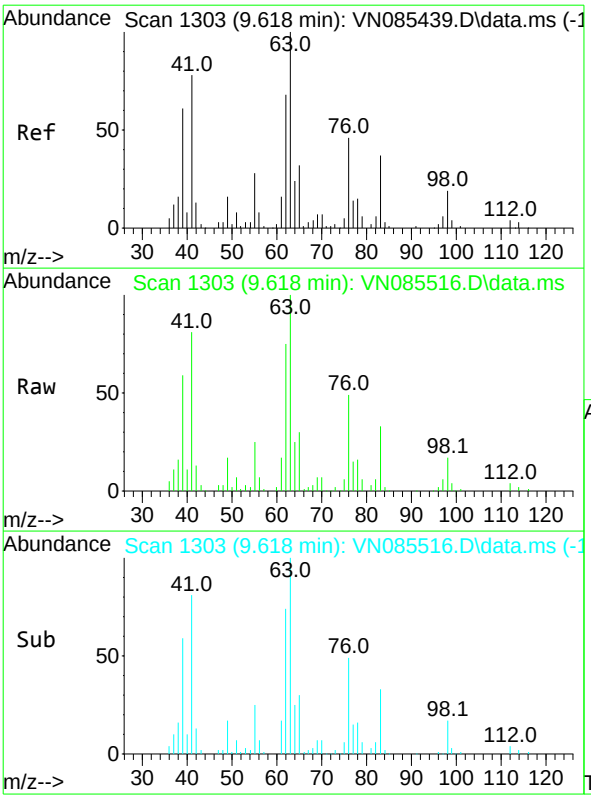




#44
Trichloroethene
Concen: 47.381 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:130 Resp: 105110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.4 | 0.0 | 195.8 |






#45
1,2-Dichloropropane
Concen: 50.565 ug/l
RT: 9.618 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 63 Resp: 123088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.2 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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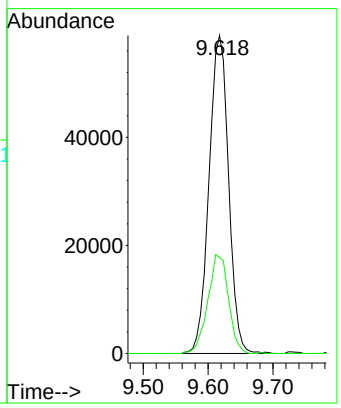
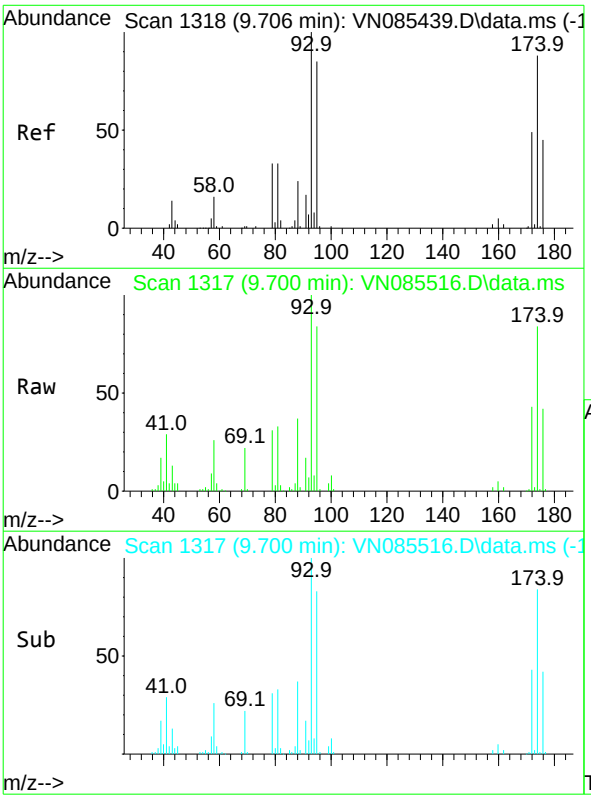
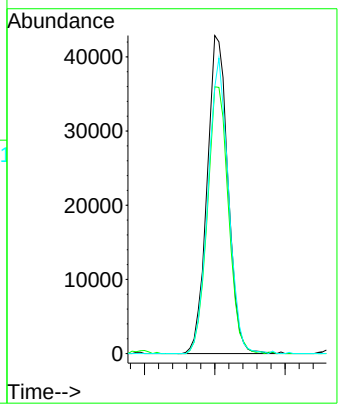


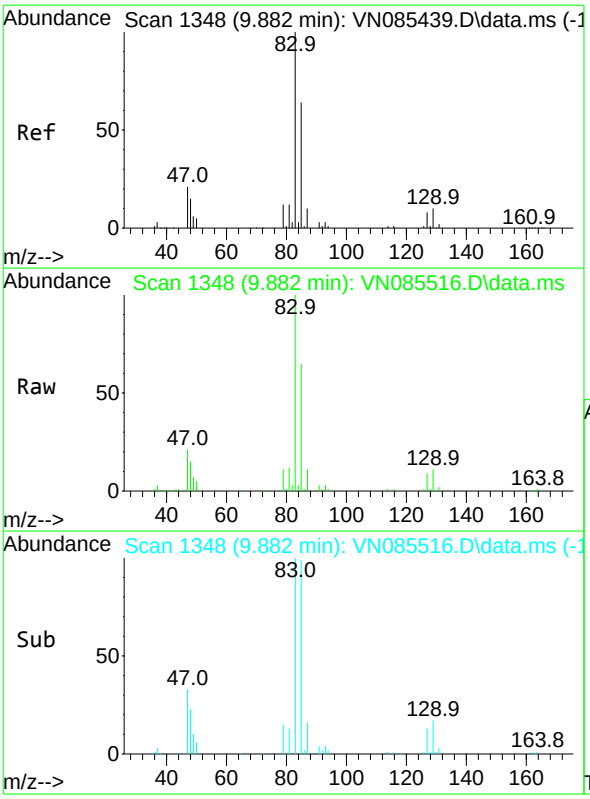




#46
Dibromomethane
Concen: 50.387 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. -0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 93 Resp: 88504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 84.6 | 64.7 | 97.1 |
| 174 | 91.1 | 69.0 | 103.4 |






#47
Bromodichloromethane
Concen: 53.106 ug/l
RT: 9.882 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 83 Resp: 190039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 51.2 | 76.8 |
| 127 | 8.6 | 6.5 | 9.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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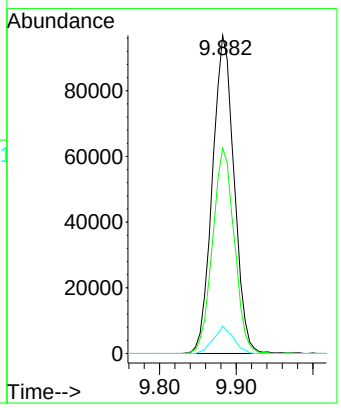
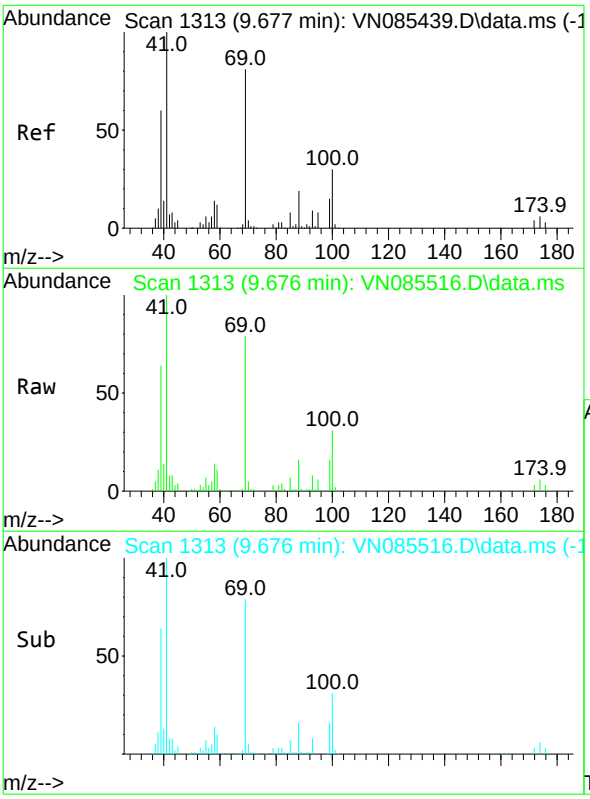
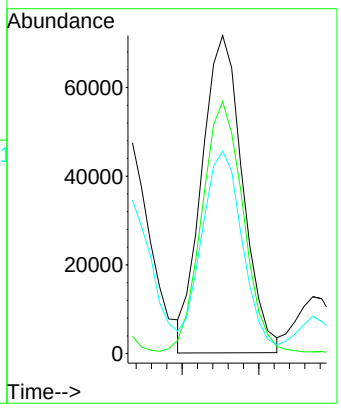


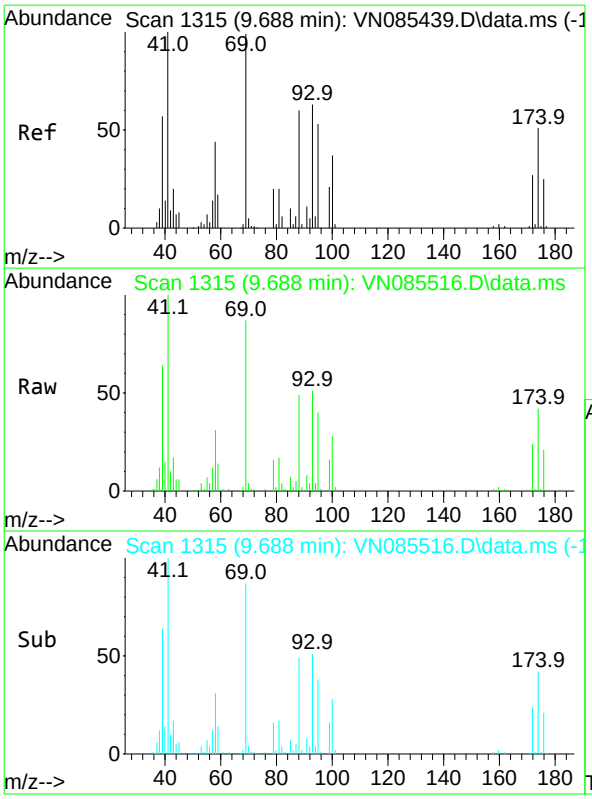




#48
Methyl methacrylate
Concen: 57.400 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.001 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 41 Resp: 132510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 81.3 | 64.7 | 97.1 |
| 39 | 63.9 | 49.0 | 73.6 |






#49
1,4-Dioxane
Concen: 1046.827 ug/l
RT: 9.688 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 88 Resp: 40696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.0 | 26.6 | 39.8 |
| 58 | 73.8 | 59.5 | 89.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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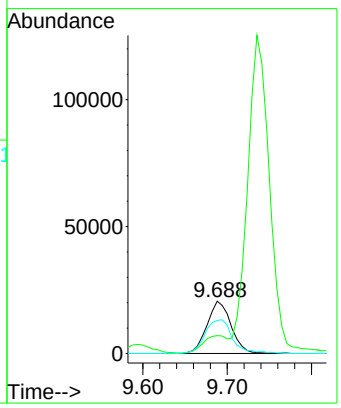
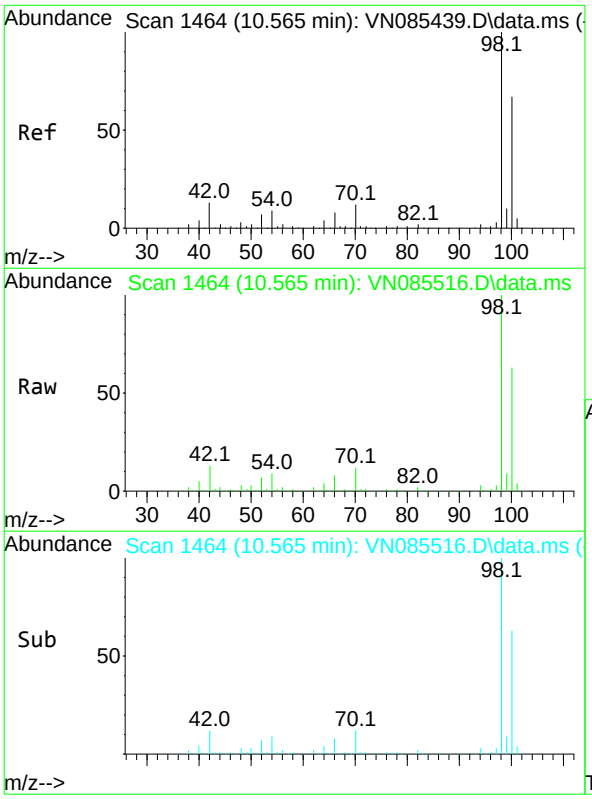
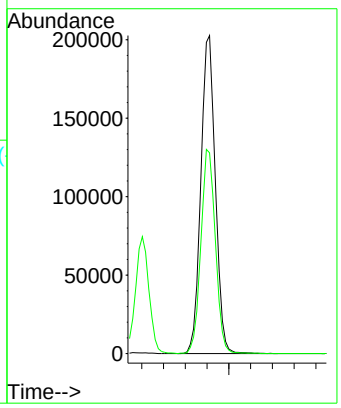


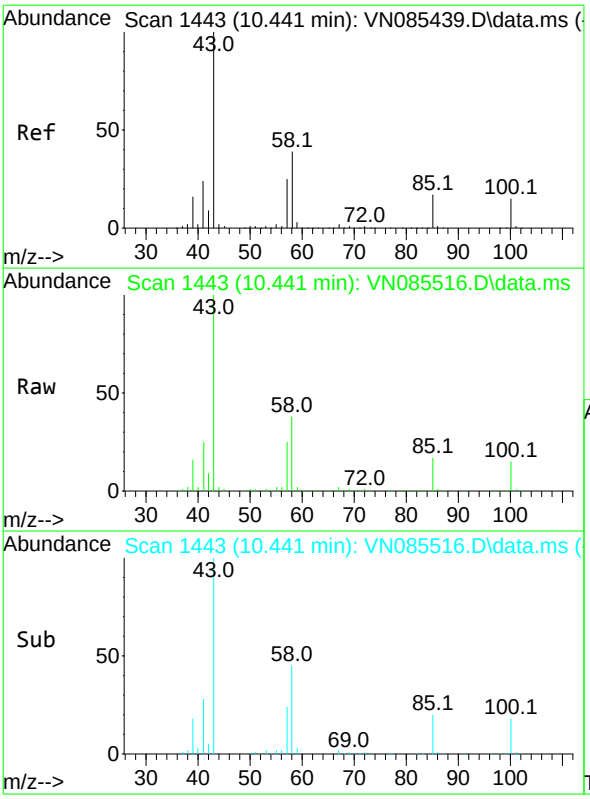




#50
Toluene-d8
Concen: 46.653 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 98 Resp: 374598

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






#51
4-Methyl-2-Pentanone
Concen: 286.205 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

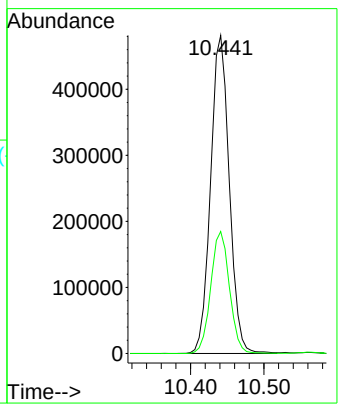
Tgt Ion: 43 Resp: 851970

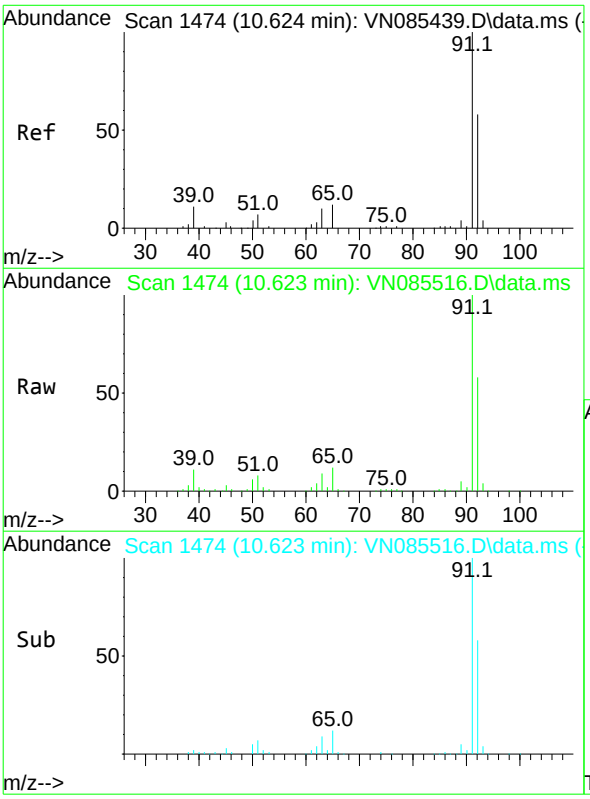
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.4 | 30.5 | 45.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

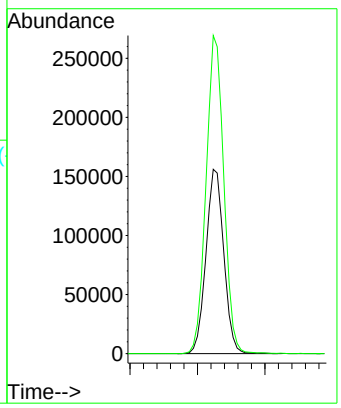


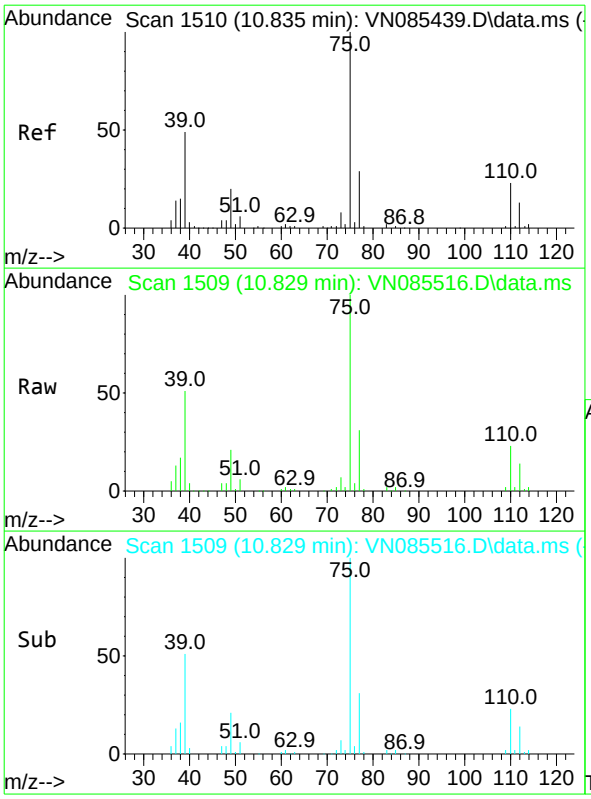




#52
Toluene
Concen: 51.711 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.001 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 92 Resp: 285545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.8 | 139.2 | 208.8 |






#53
t-1,3-Dichloropropene
Concen: 56.226 ug/l
RT: 10.829 min Scan# 15
Delta R.T. -0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 75 Resp: 190140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.8 | 23.5 | 35.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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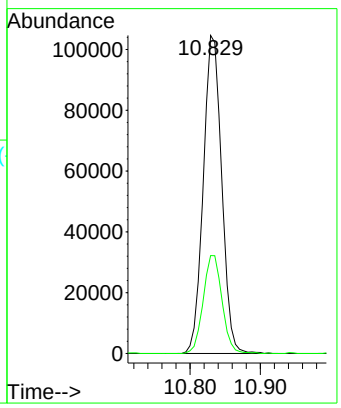
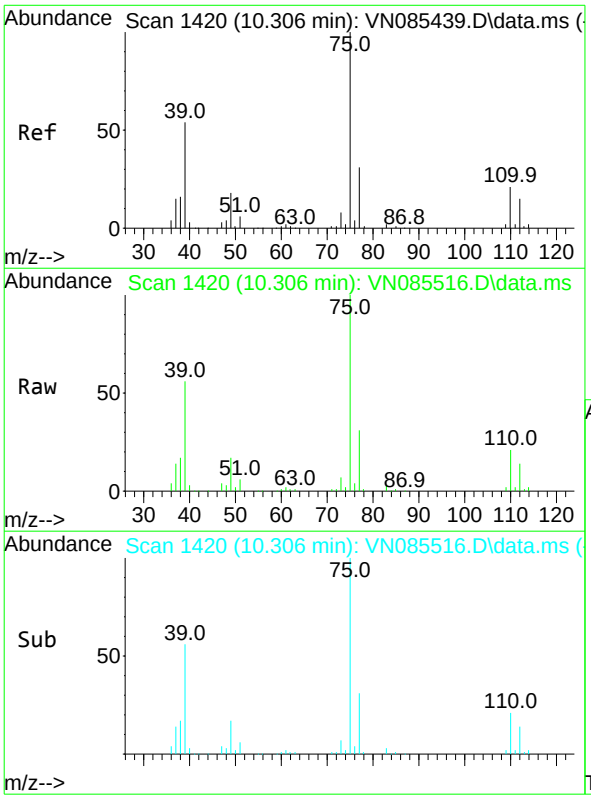
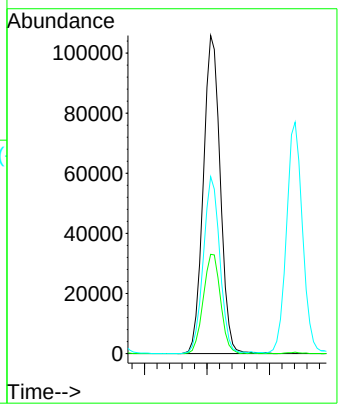


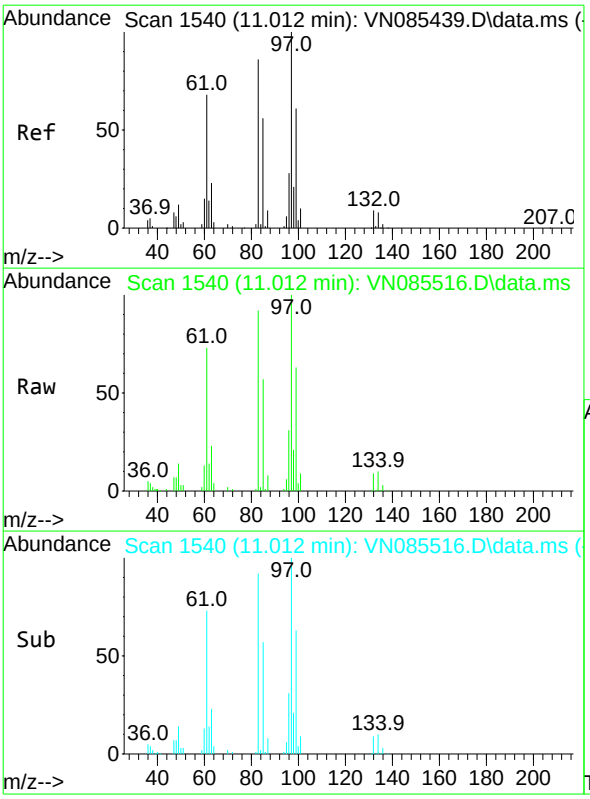




#54
cis-1,3-Dichloropropene
Concen: 55.257 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 75 Resp: 199604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.2 | 25.0 | 37.4 |
| 39 | 55.6 | 43.1 | 64.7 |






#55
1,1,2-Trichloroethane
Concen: 53.253 ug/l
RT: 11.012 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 97 Resp: 116373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 91.9 | 69.0 | 103.6 |
| 85 | 56.7 | 44.6 | 66.8 |
| 99 | 63.3 | 48.6 | 72.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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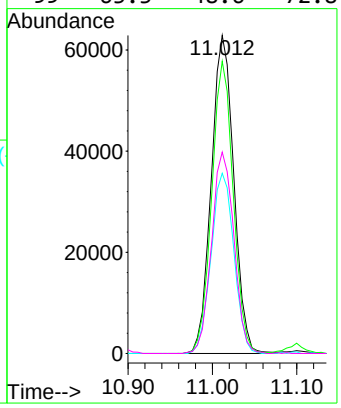
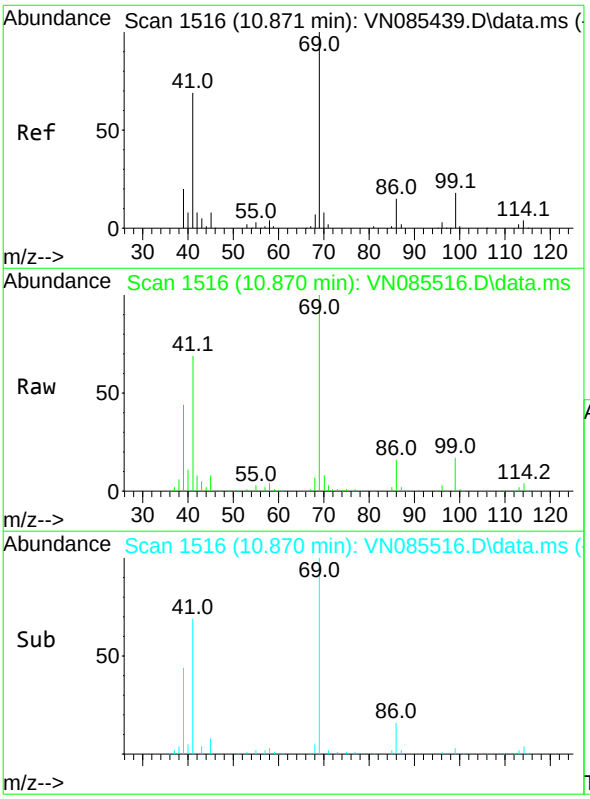
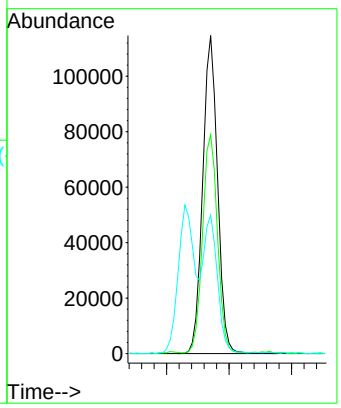


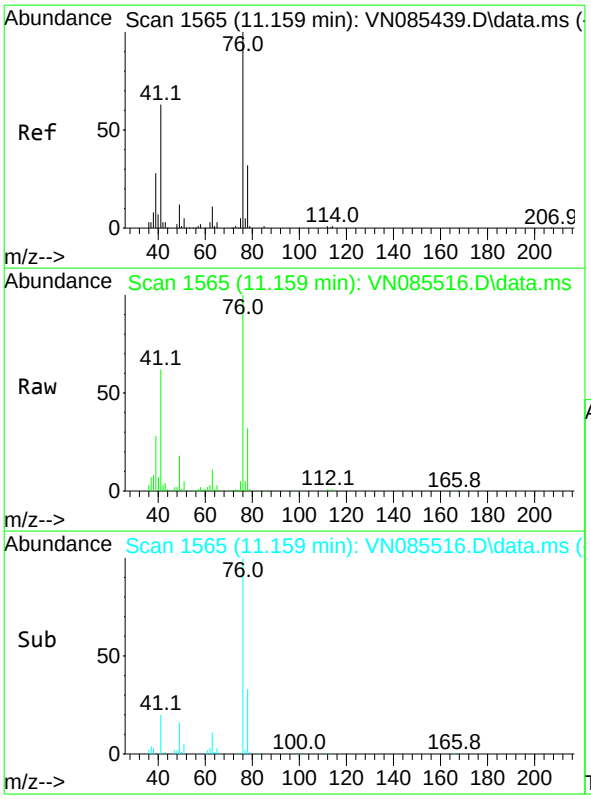




#56
Ethyl methacrylate
Concen: 51.325 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.001 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 69 Resp: 189137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 68.6 | 54.6 | 82.0 |
| 39 | 40.0 | 32.4 | 48.6 |






#57
1,3-Dichloropropane
Concen: 54.178 ug/l
RT: 11.159 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 76 Resp: 205868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.6 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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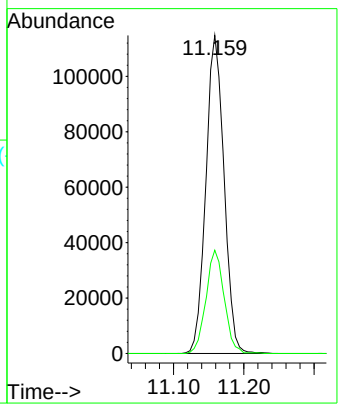
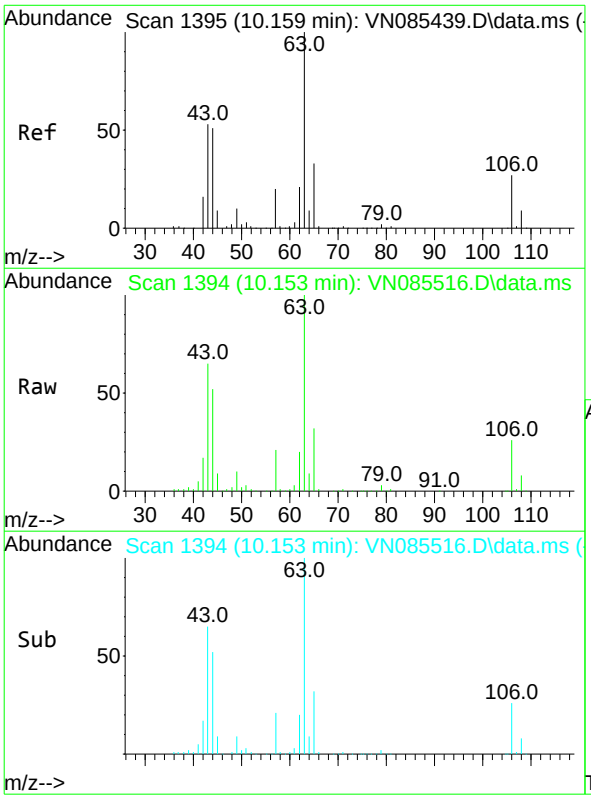
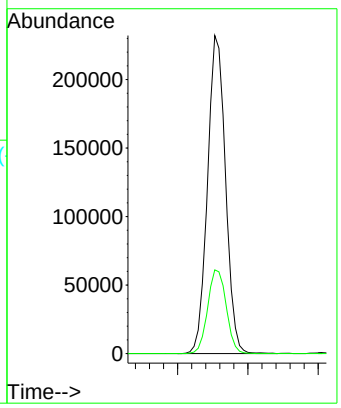


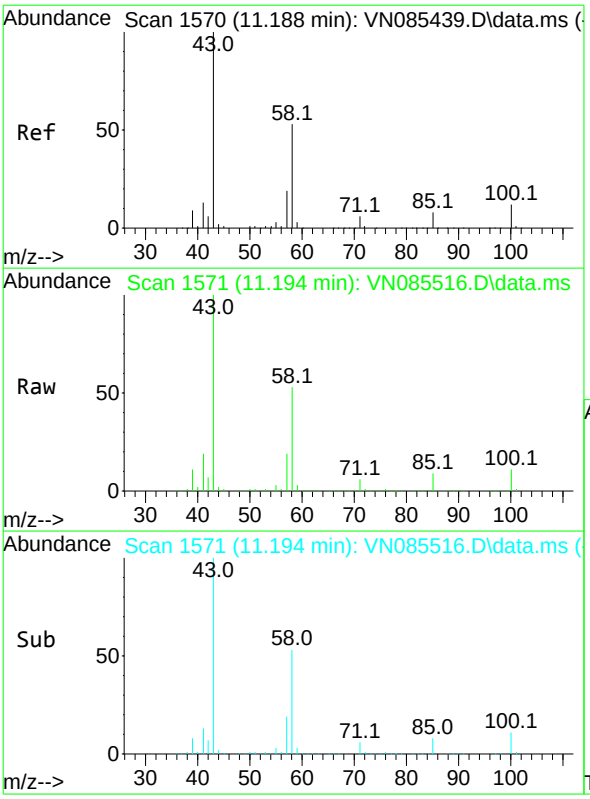




#58
2-Chloroethyl Vinyl ether
Concen: 298.097 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 63 Resp: 413395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.1 | 21.6 | 32.4 |






#59
2-Hexanone
Concen: 291.243 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 43 Resp: 610023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 52.8 | 26.2 | 78.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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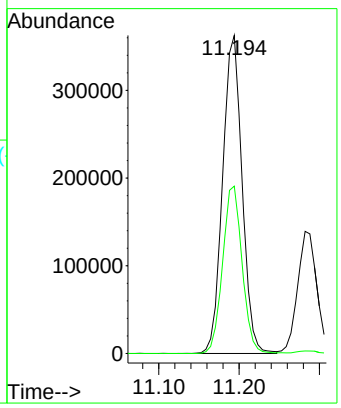
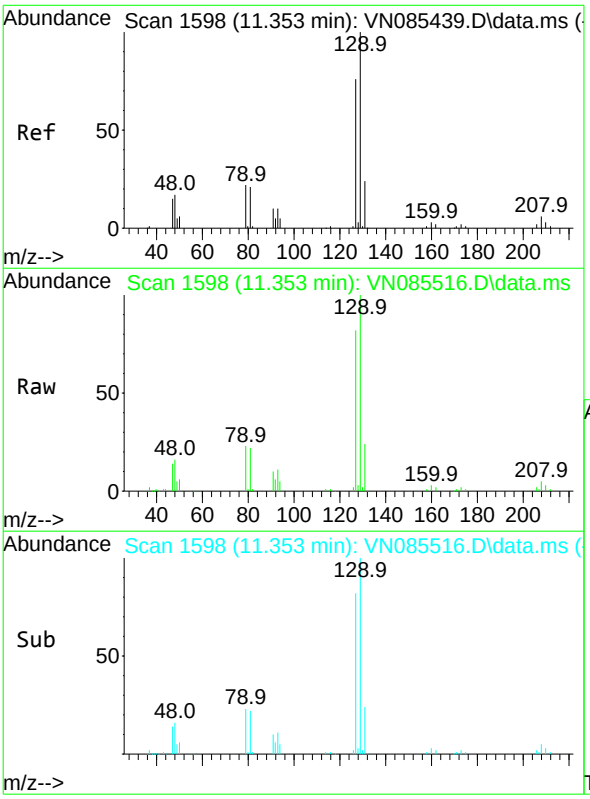
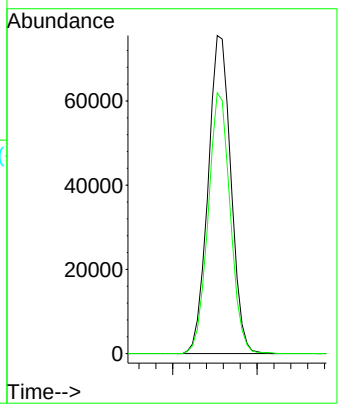


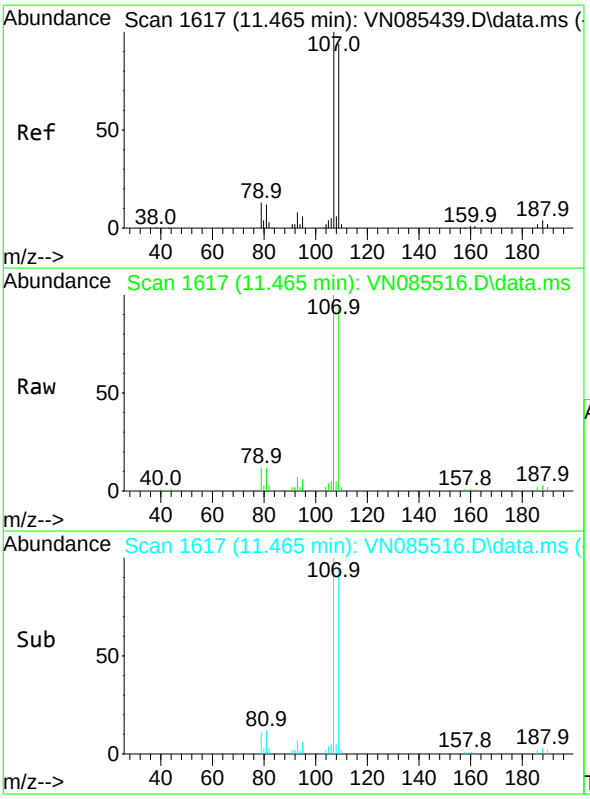




#60
Dibromochloromethane
Concen: 53.886 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:129 Resp: 142167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 79.2 | 38.6 | 115.8 |






#61
1,2-Dibromoethane
Concen: 53.477 ug/l
RT: 11.465 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

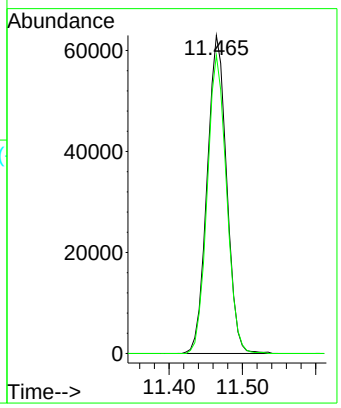
Tgt Ion:107 Resp: 116327

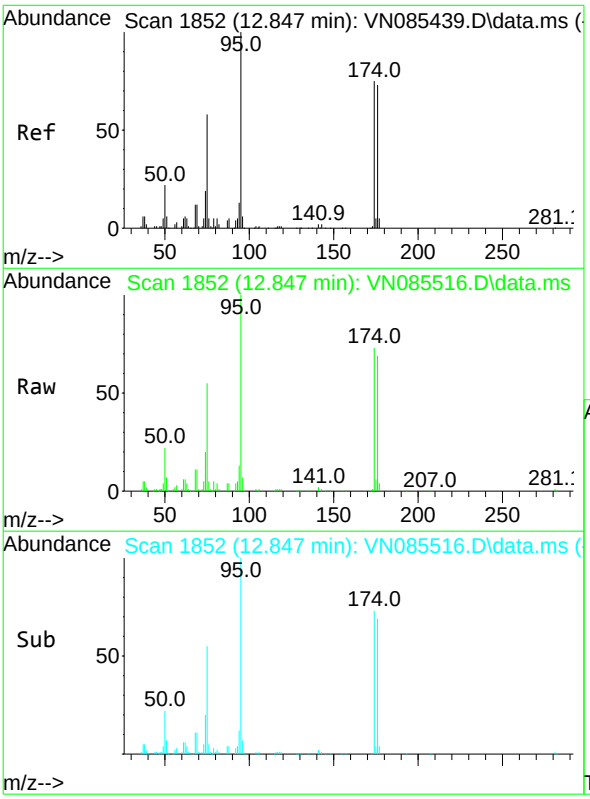
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.8 | 75.9 | 113.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

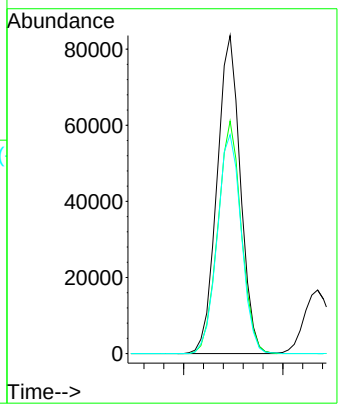


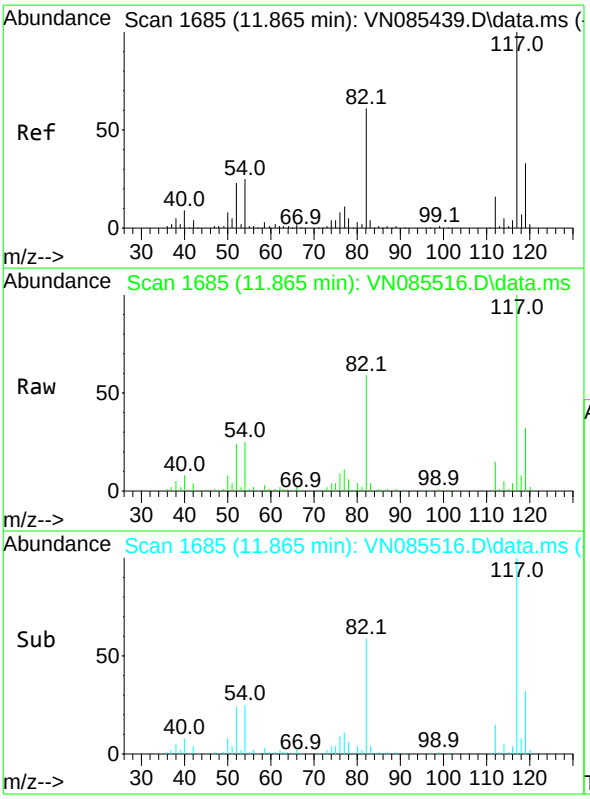




#62
4-Bromofluorobenzene
Concen: 49.932 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 95 Resp: 137149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 73.2 | 0.0 | 145.0 |
| 176 | 70.7 | 0.0 | 142.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:117 Resp: 284425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.3 | 48.6 | 72.8 |
| 119 | 31.8 | 26.6 | 39.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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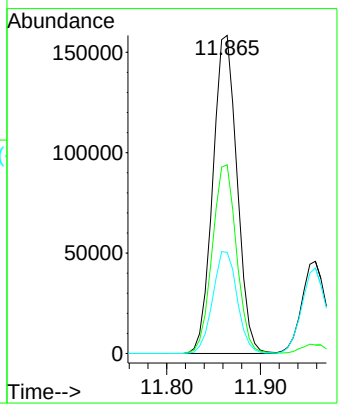
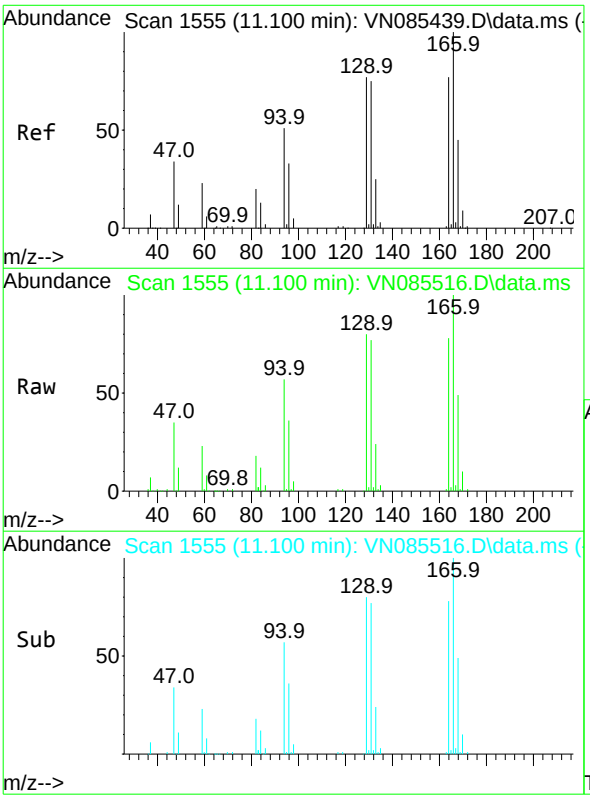
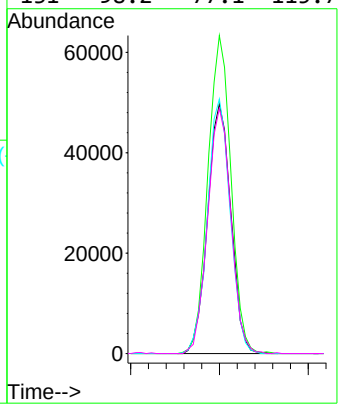


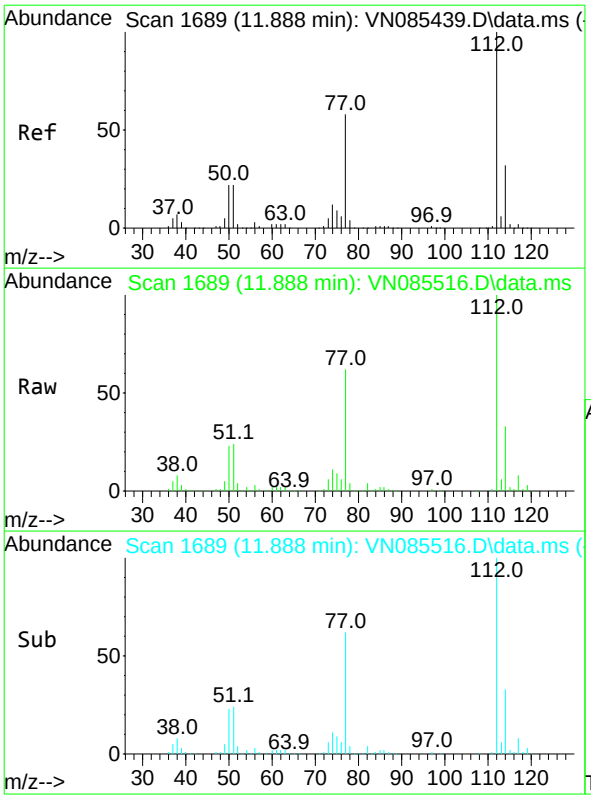




#64
Tetrachloroethene
Concen: 46.937 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:164 Resp: 91013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.4 | 103.4 | 155.2 |
| 129 | 102.0 | 79.2 | 118.8 |
| 131 | 98.2 | 77.1 | 115.7 |






#65
Chlorobenzene
Concen: 49.960 ug/l
RT: 11.888 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:112 Resp: 311291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.8 | 25.3 | 37.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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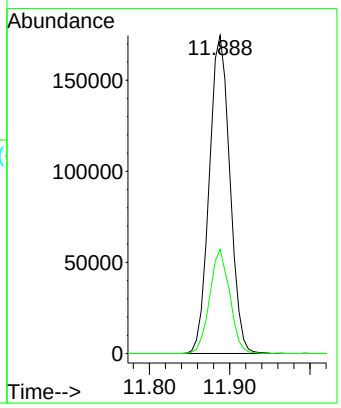
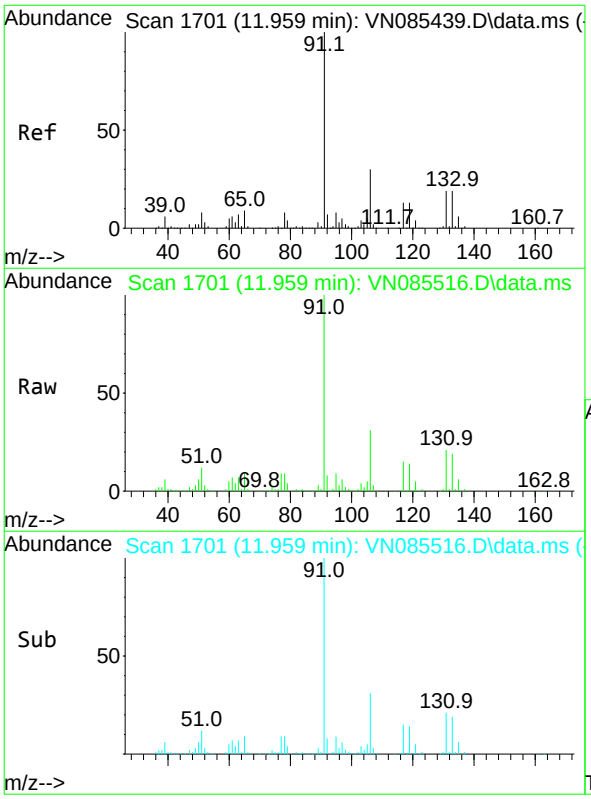
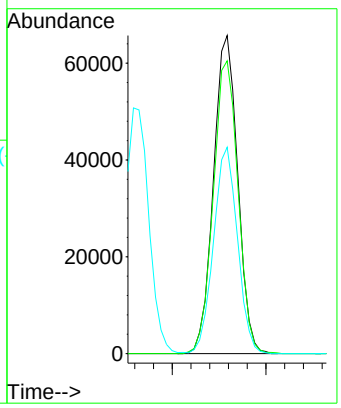


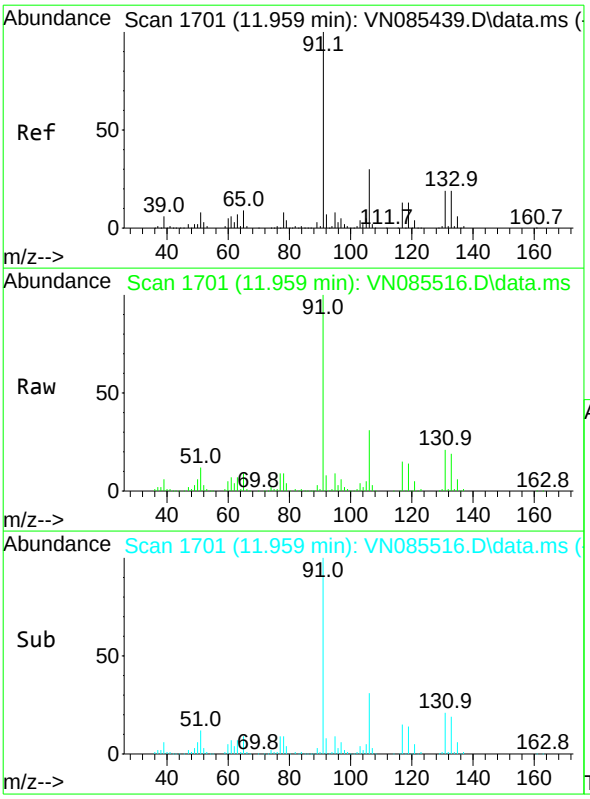




#66
1,1,1,2-Tetrachloroethane
Concen: 51.540 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:131 Resp: 117864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.2 | 47.4 | 142.3 |
| 119 | 64.3 | 33.1 | 99.5 |






#67
Ethyl Benzene
Concen: 51.901 ug/l
RT: 11.959 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 91 Resp: 526713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.6 | 23.8 | 35.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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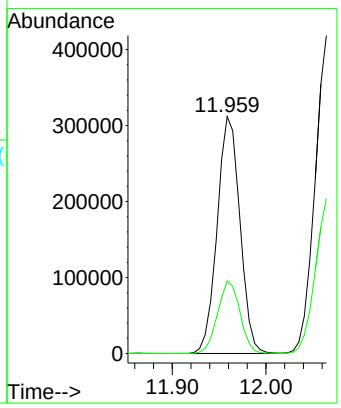
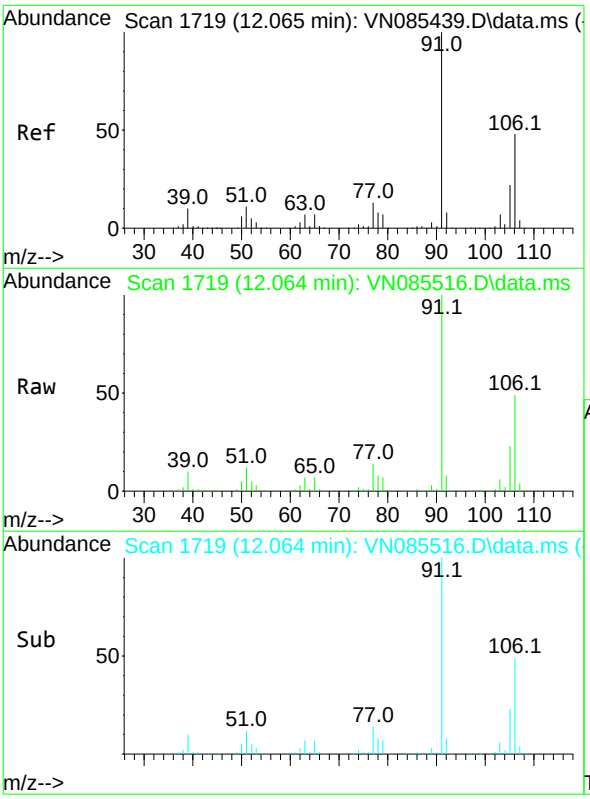
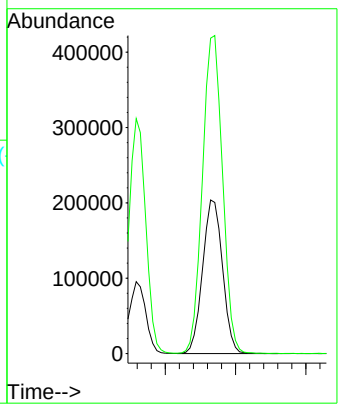


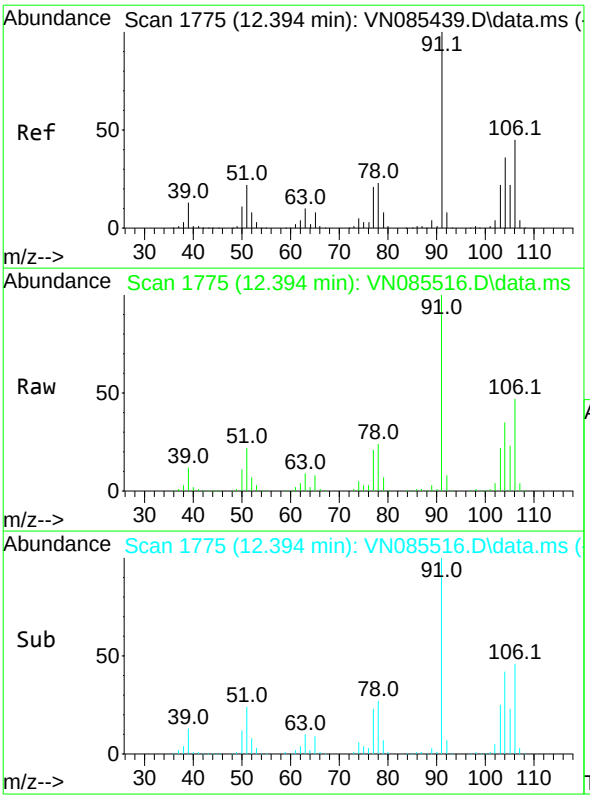




#68
m/p-Xylenes
Concen: 106.992 ug/l
RT: 12.064 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:106 Resp: 401289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.9 | 167.7 | 251.5 |






#69
o-Xylene
Concen: 54.703 ug/l
RT: 12.394 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:106 Resp: 196078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.1 | 110.4 | 331.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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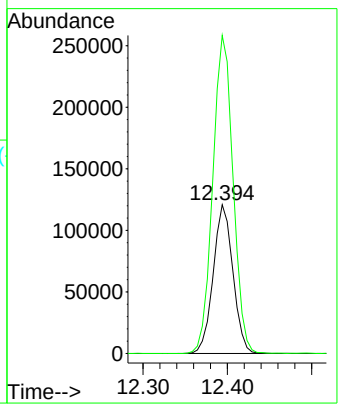
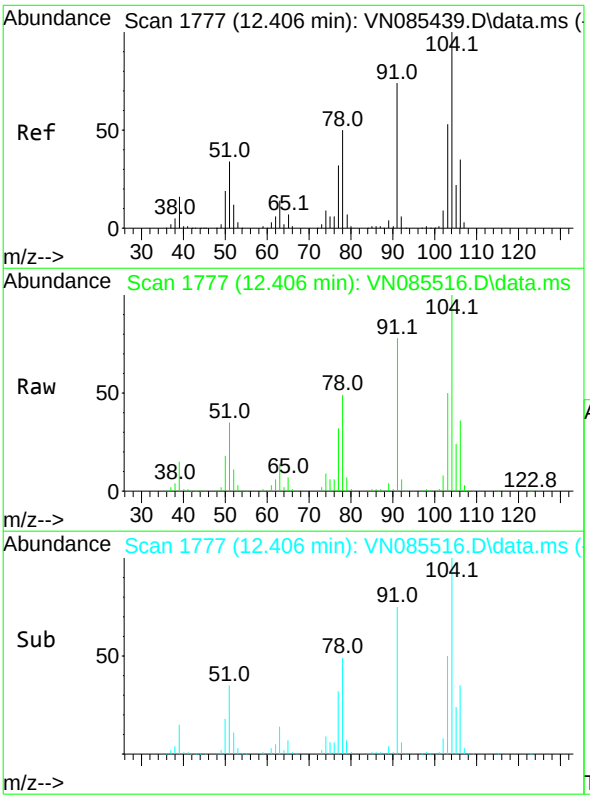
Supervised By :Mahesh Dadoda 01/28/2025

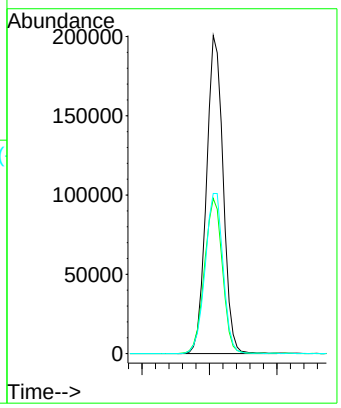


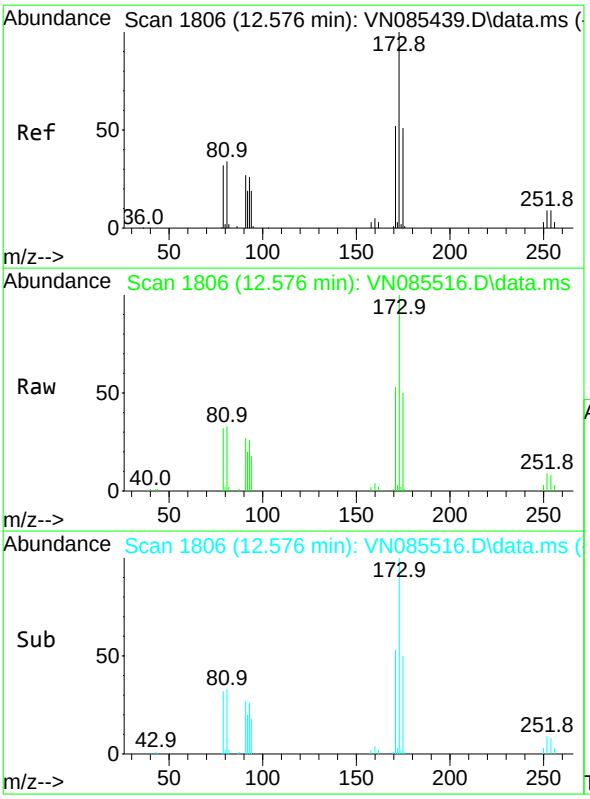




#70
Styrene
Concen: 58.055 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:104 Resp: 344386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.4 | 42.5 | 63.7 |
| 103 | 54.3 | 43.8 | 65.8 |






#71
Bromoform
Concen: 57.773 ug/l
RT: 12.576 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

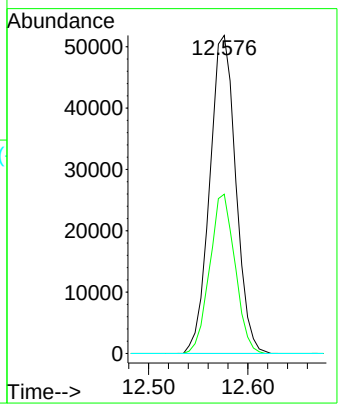
Tgt Ion:173 Resp: 94532

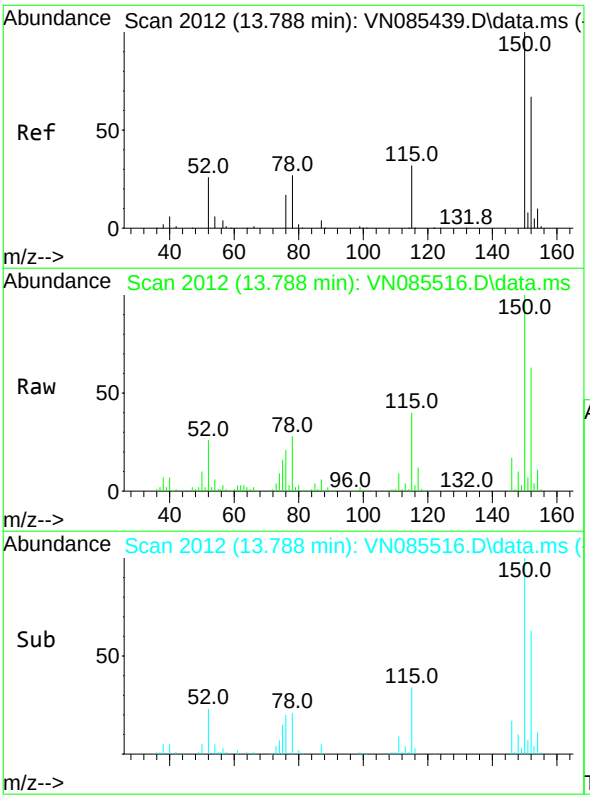
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.7 | 24.4 | 73.2 |
| 254 | 0.0 | 0.0 | 0.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

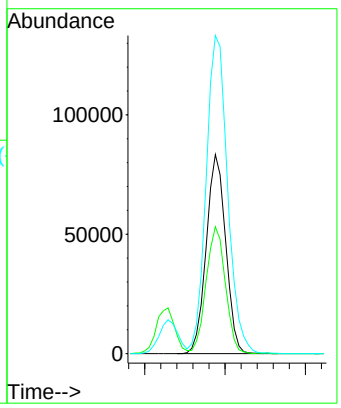


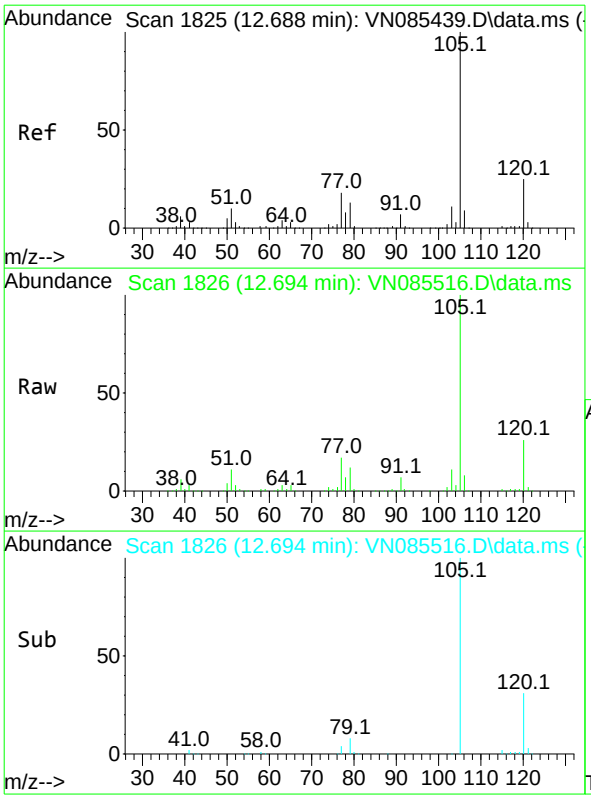




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:152 Resp: 139987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 63.1 | 31.1 | 93.3 |
| 150 | 176.6 | 0.0 | 343.6 |






#73
Isopropylbenzene
Concen: 50.579 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

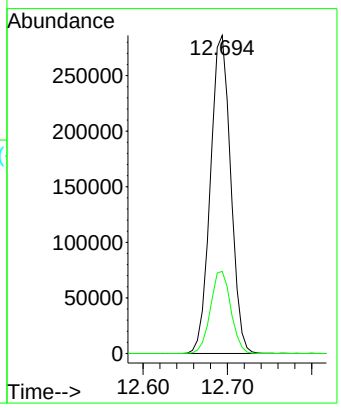
Tgt Ion:105 Resp: 477865

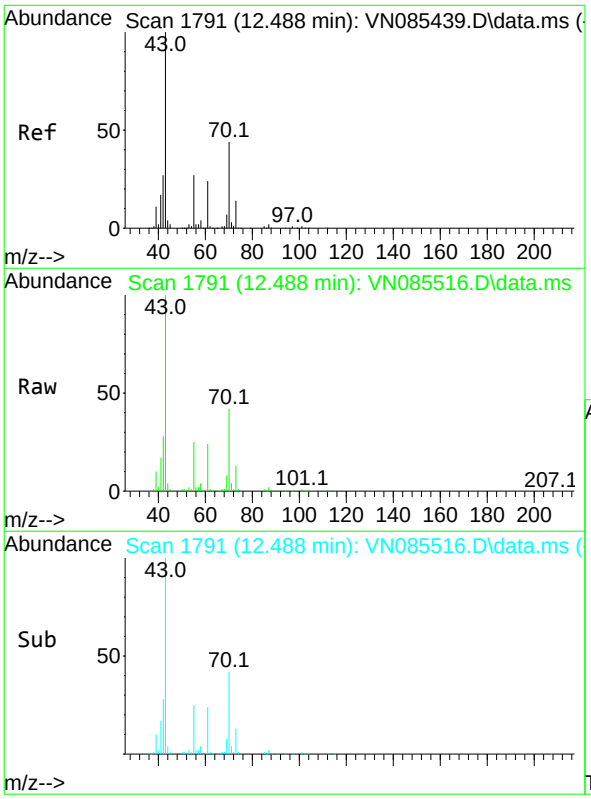
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.0 | 12.8 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

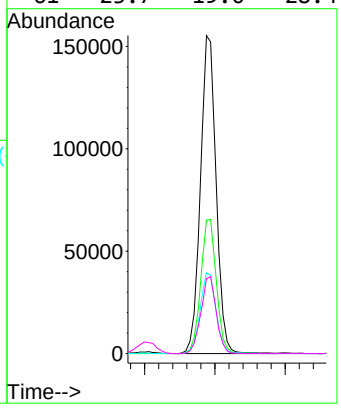


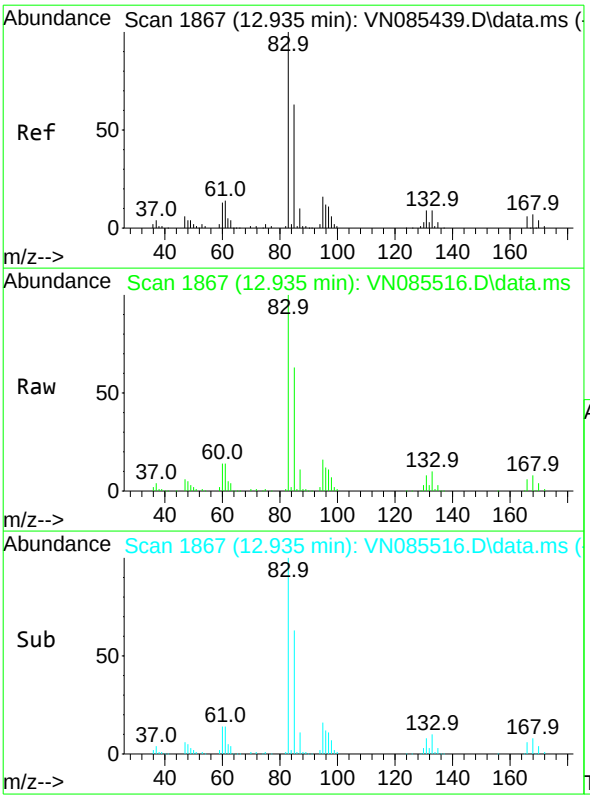




#74
N-amyl acetate
Concen: 56.596 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 43 Resp: 240341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.0 | 34.0 | 51.0 |
| 55 | 25.7 | 21.4 | 32.2 |
| 61 | 23.7 | 19.0 | 28.4 |






#75
1,1,2,2-Tetrachloroethane
Concen: 51.447 ug/l
RT: 12.935 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 171698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 8.9 | 4.8 | 14.4 |
| 85 | 63.7 | 32.2 | 96.6 |

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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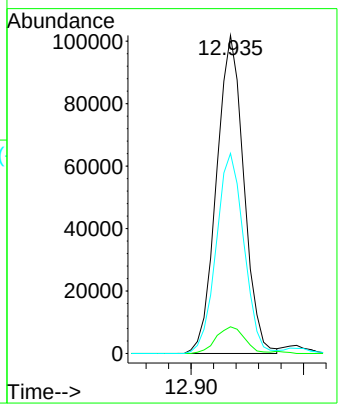
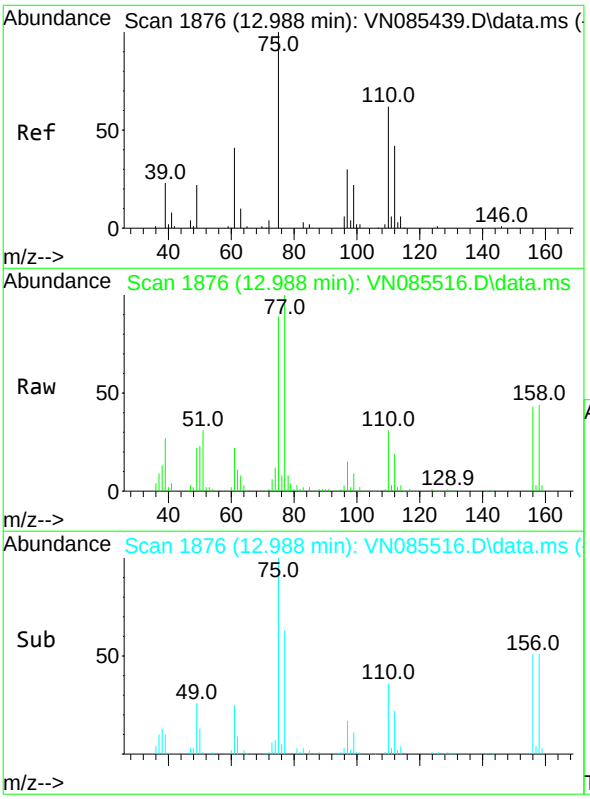
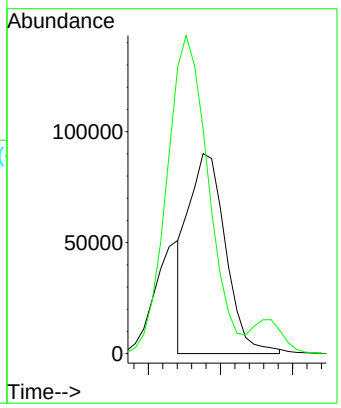


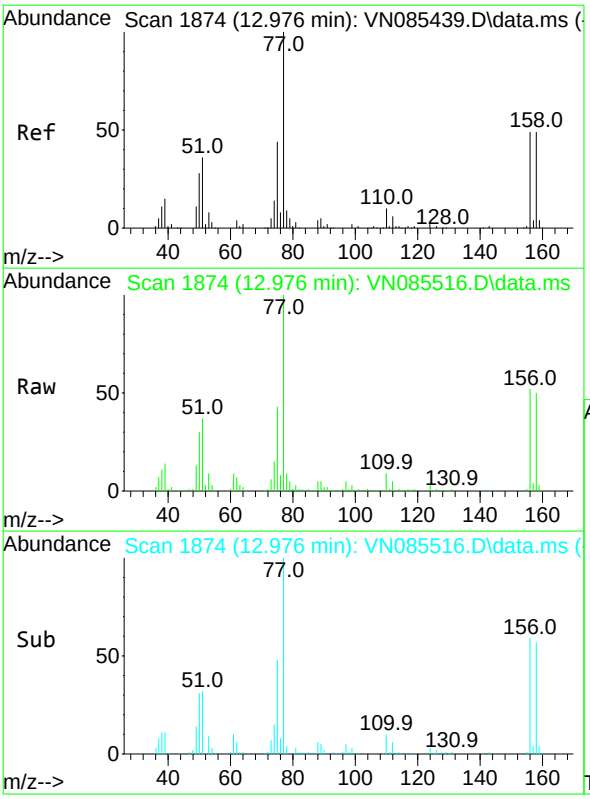




#76
1,2,3-Trichloropropane
Concen: 56.904 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 75 Resp: 161908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 177.9 | 109.7 | 329.2 |






#77
Bromobenzene
Concen: 51.493 ug/l
RT: 12.976 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:156 Resp: 127105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 226.6 | 114.1 | 342.4 |
| 158 | 95.8 | 48.9 | 146.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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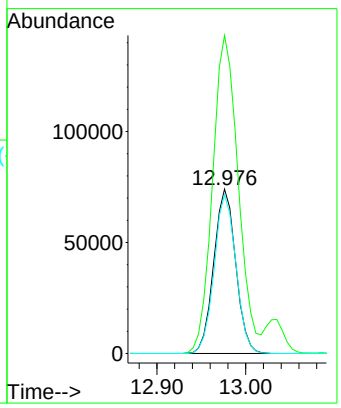
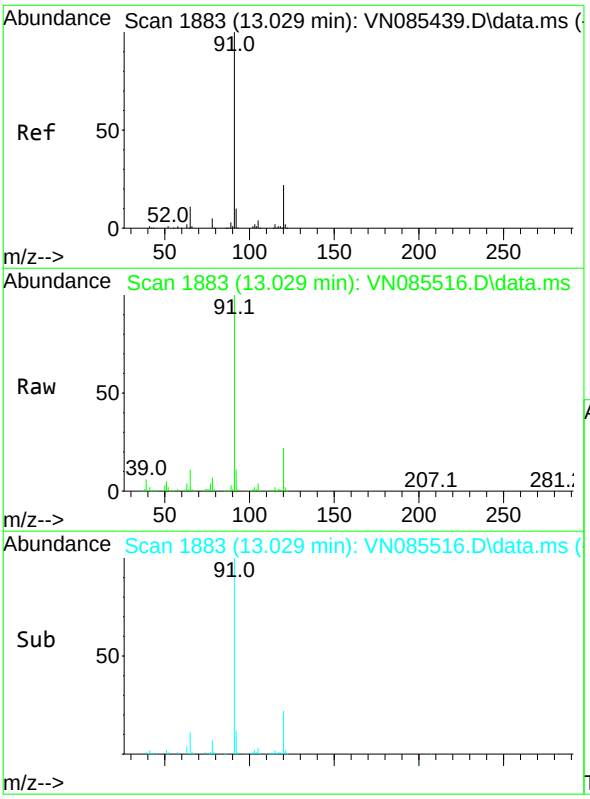
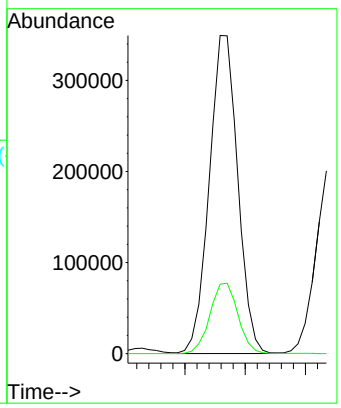


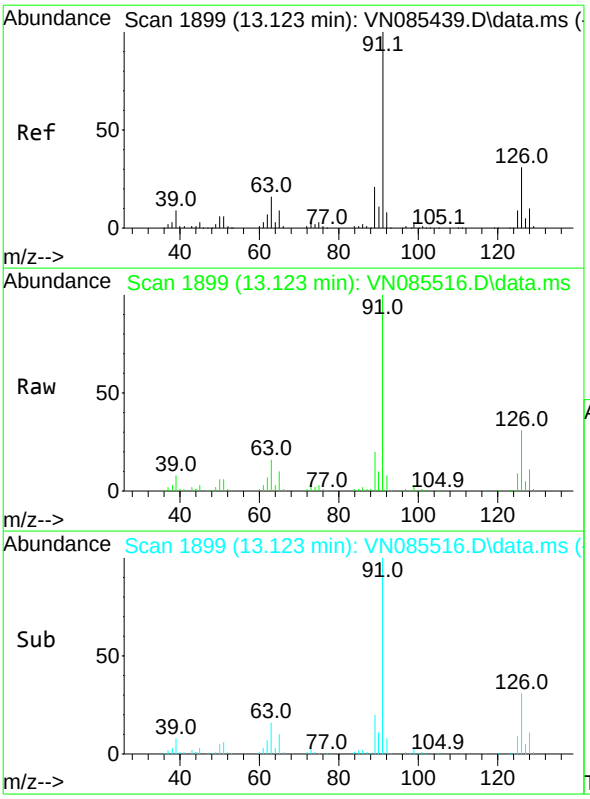




#78
n-propylbenzene
Concen: 51.306 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 91 Resp: 573848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.7 | 10.9 | 32.6 |






#79
2-Chlorotoluene
Concen: 50.647 ug/l
RT: 13.123 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 91 Resp: 366620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.7 | 15.7 | 47.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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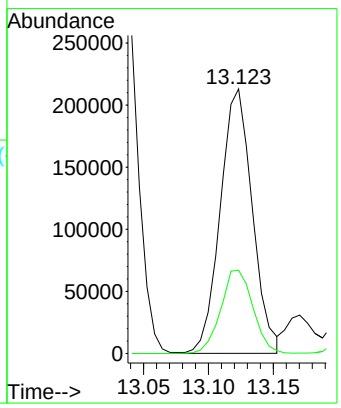
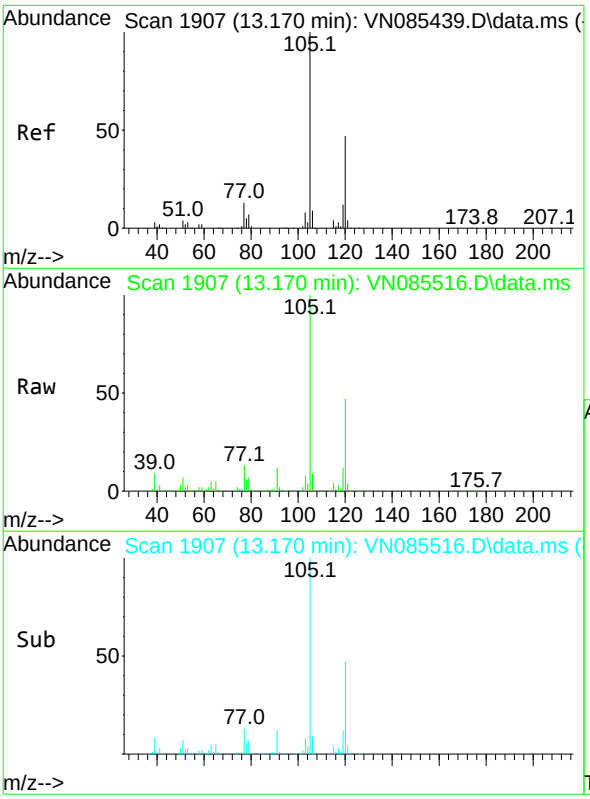
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

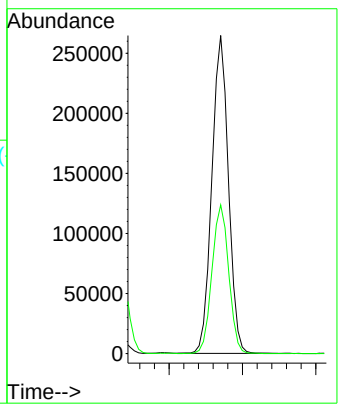


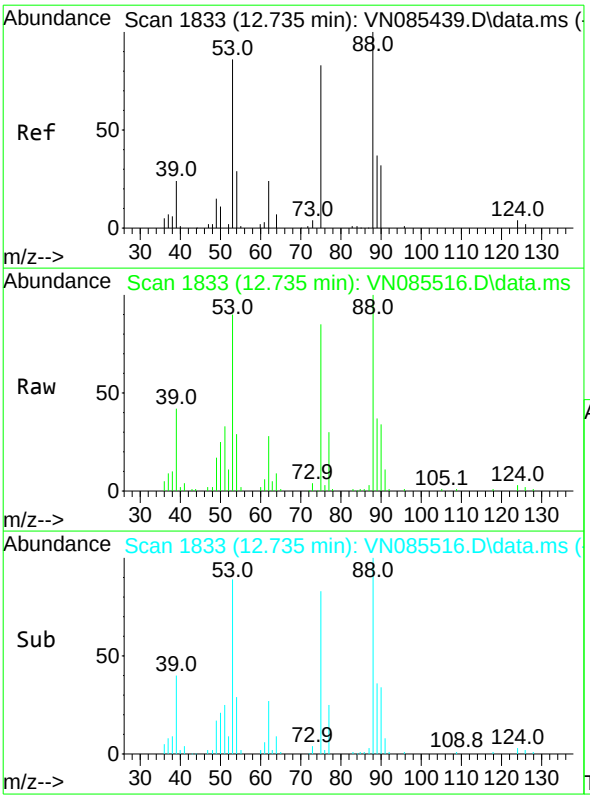




#80
1,3,5-Trimethylbenzene
Concen: 53.097 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:105 Resp: 414375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.3 | 23.9 | 71.7 |






#81
trans-1,4-Dichloro-2-butene
Concen: 56.364 ug/l
RT: 12.735 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 59274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 115.1 | 95.6 | 143.4 |
| 89 | 46.0 | 37.0 | 55.6 |

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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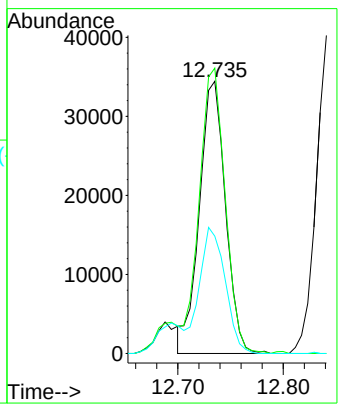
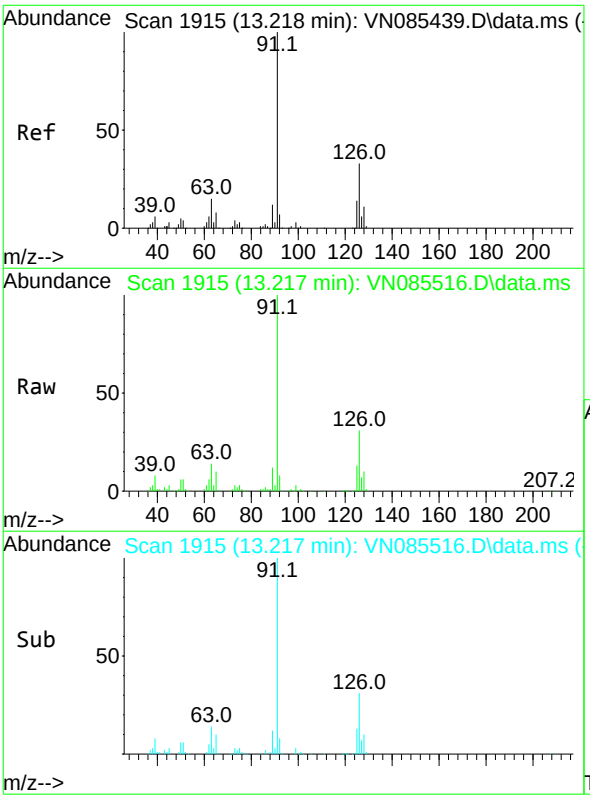
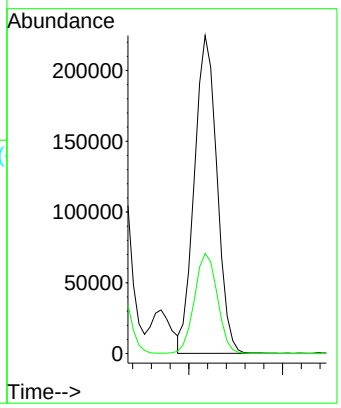


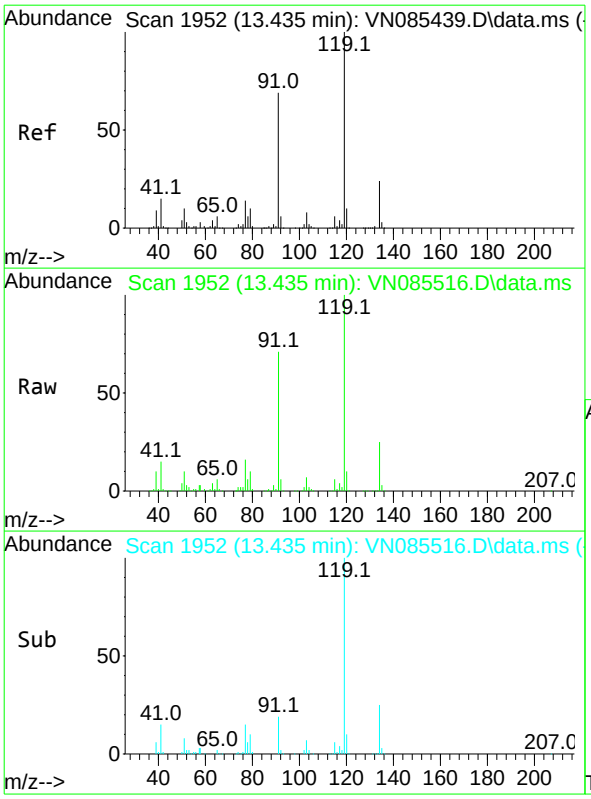




#82
4-Chlorotoluene
Concen: 52.054 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 91 Resp: 375177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.1 | 15.9 | 47.7 |






#83
tert-Butylbenzene
Concen: 50.940 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:119 Resp: 333841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 70.2 | 35.1 | 105.3 |
| 134 | 24.4 | 12.0 | 36.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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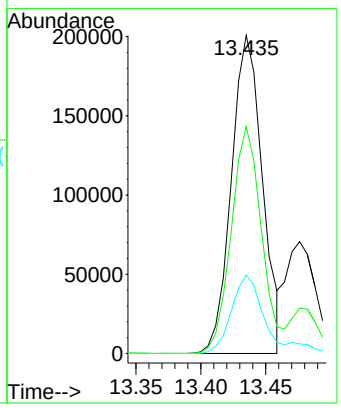
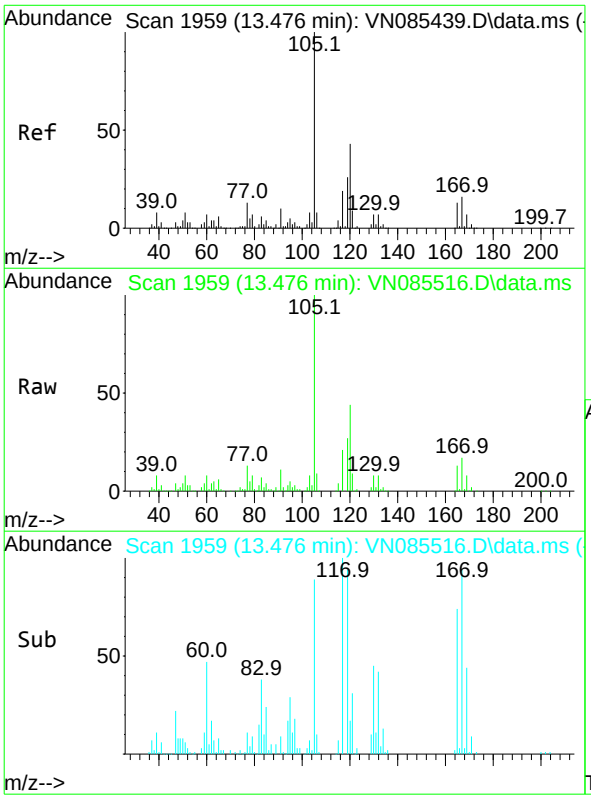
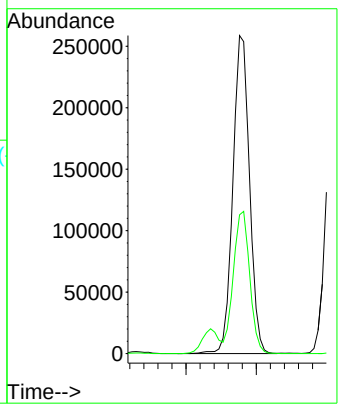


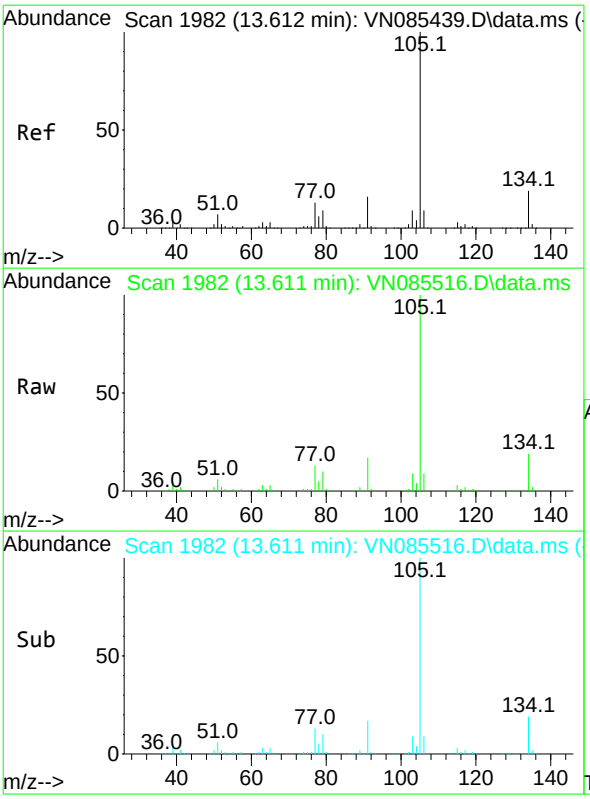




#84
1,2,4-Trimethylbenzene
Concen: 54.525 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:105 Resp: 424105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.1 | 21.6 | 65.0 |






#85
sec-Butylbenzene
Concen: 51.427 ug/l
RT: 13.611 min Scan# 19
Delta R.T. -0.001 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:105 Resp: 467115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.2 | 9.7 | 28.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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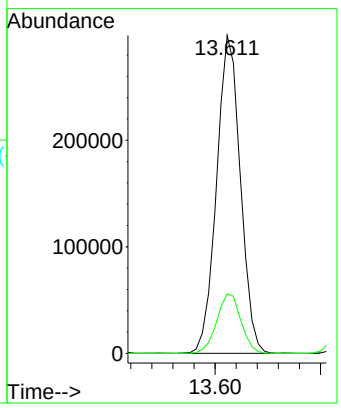
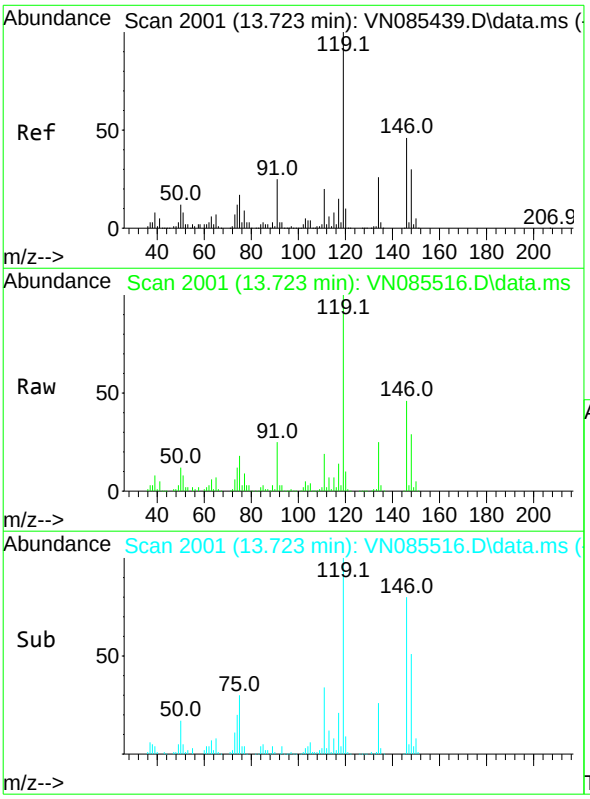
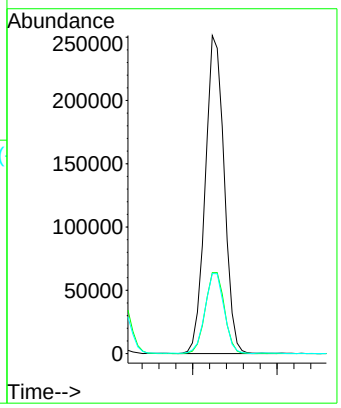


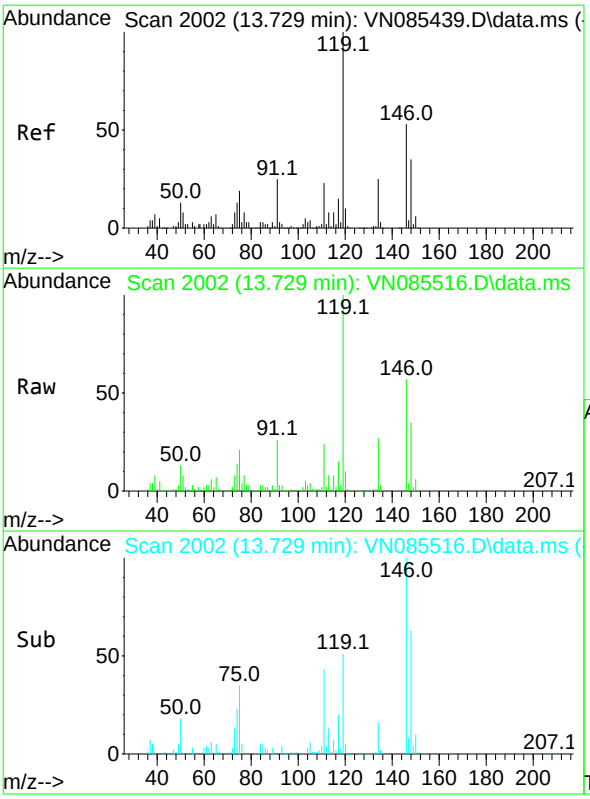




#86
p-Isopropyltoluene
Concen: 48.059 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:119 Resp: 391206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 12.7 | 38.0 |
| 91 | 25.6 | 12.7 | 38.1 |






#87
1,3-Dichlorobenzene
Concen: 50.168 ug/l
RT: 13.729 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:146 Resp: 228057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.3 | 21.4 | 64.3 |
| 148 | 64.0 | 32.3 | 96.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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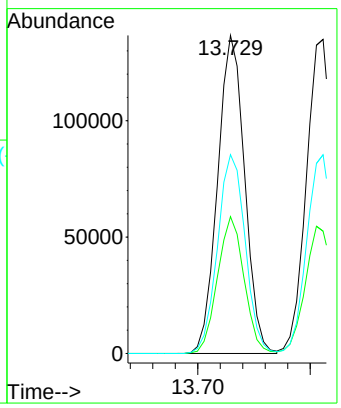
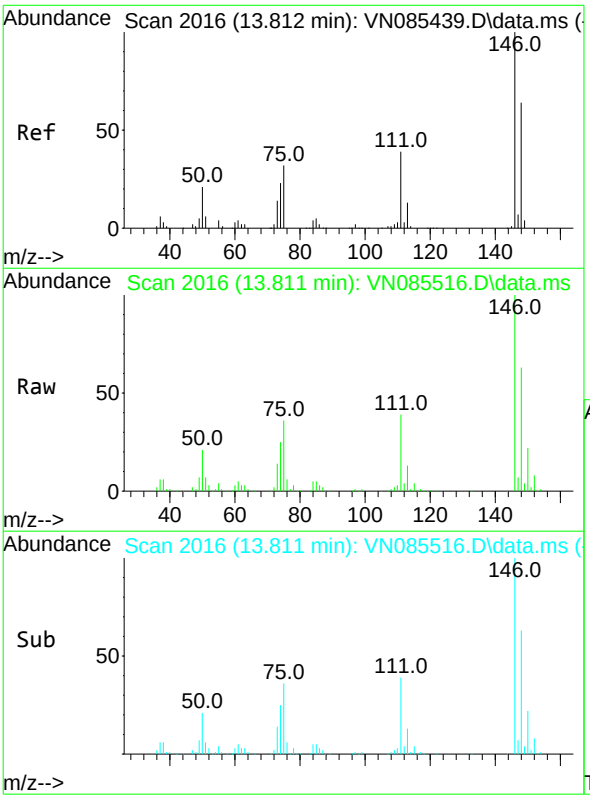
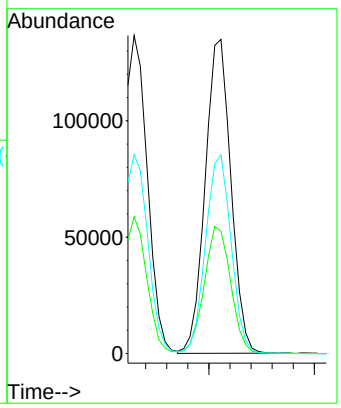


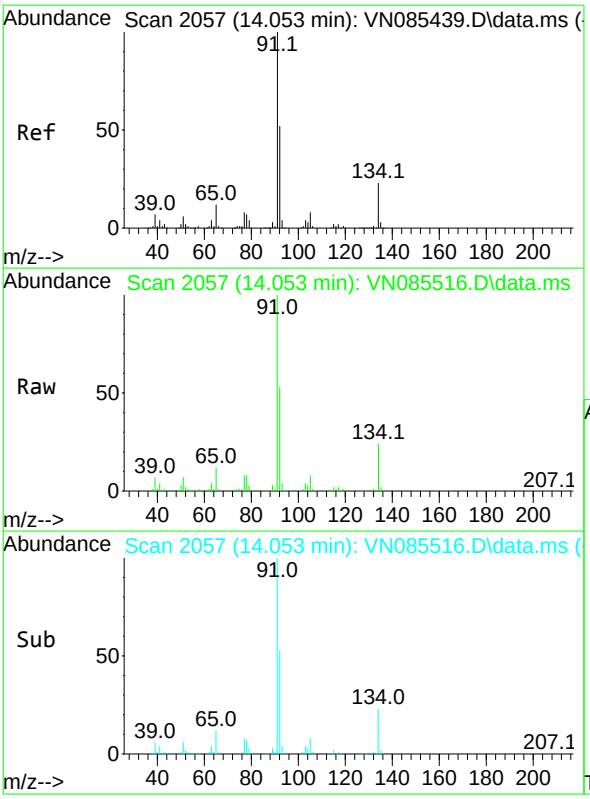




#88
1,4-Dichlorobenzene
Concen: 48.601 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:146 Resp: 229002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.7 | 21.3 | 63.7 |
| 148 | 63.1 | 32.4 | 97.0 |






#89
n-Butylbenzene
Concen: 52.144 ug/l
RT: 14.053 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

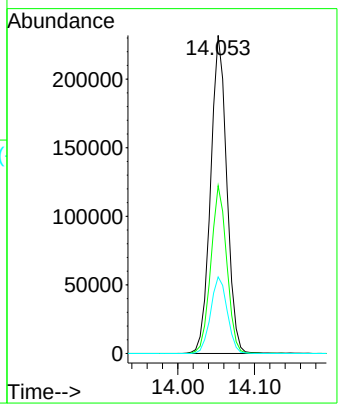
Tgt Ion: 91 Resp: 339784

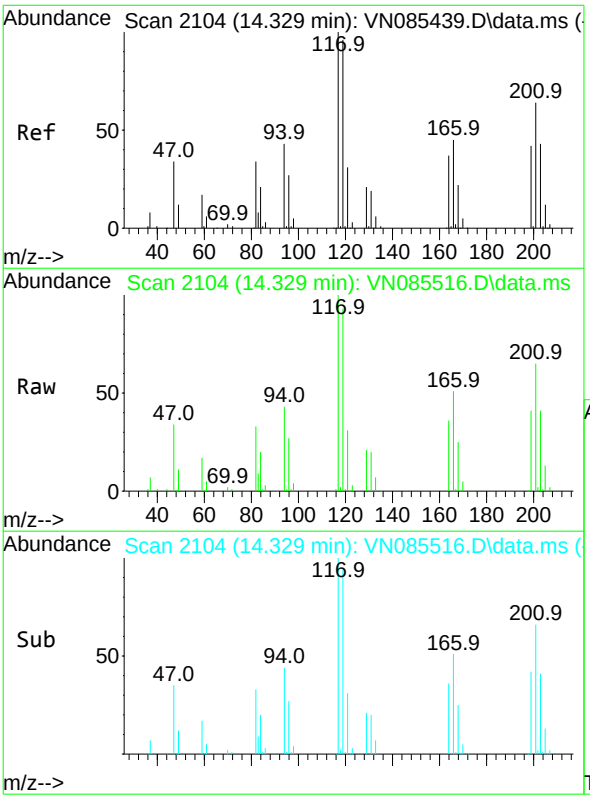
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.8 | 25.8 | 77.3 |
| 134 | 24.6 | 11.7 | 35.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

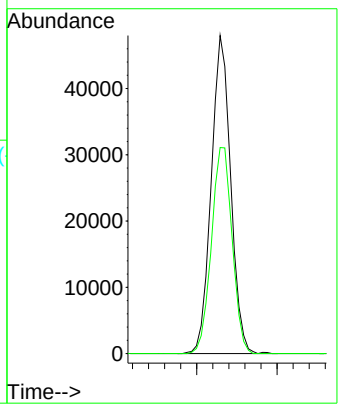


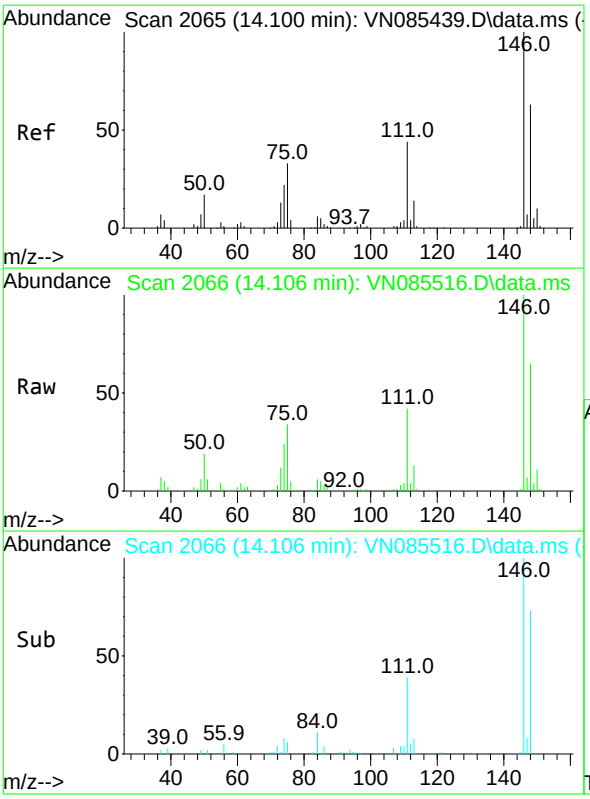




#90
Hexachloroethane
Concen: 46.631 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:117 Resp: 80633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 69.0 | 33.7 | 101.0 |






#91
1,2-Dichlorobenzene
Concen: 49.930 ug/l
RT: 14.106 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

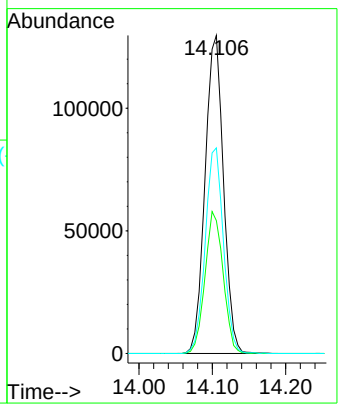
Tgt Ion:146 Resp: 226400

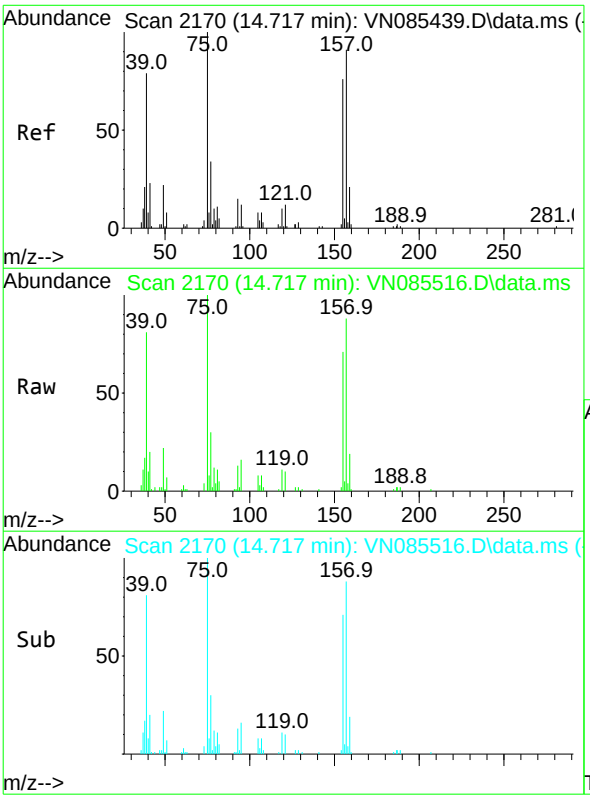
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.0 | 21.7 | 65.1 |
| 148 | 64.0 | 31.4 | 94.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

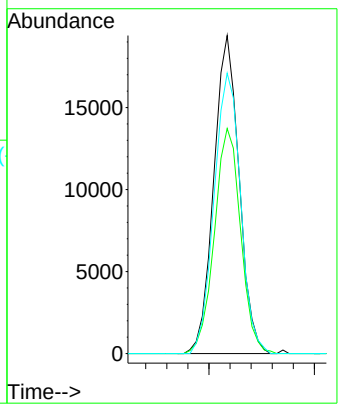


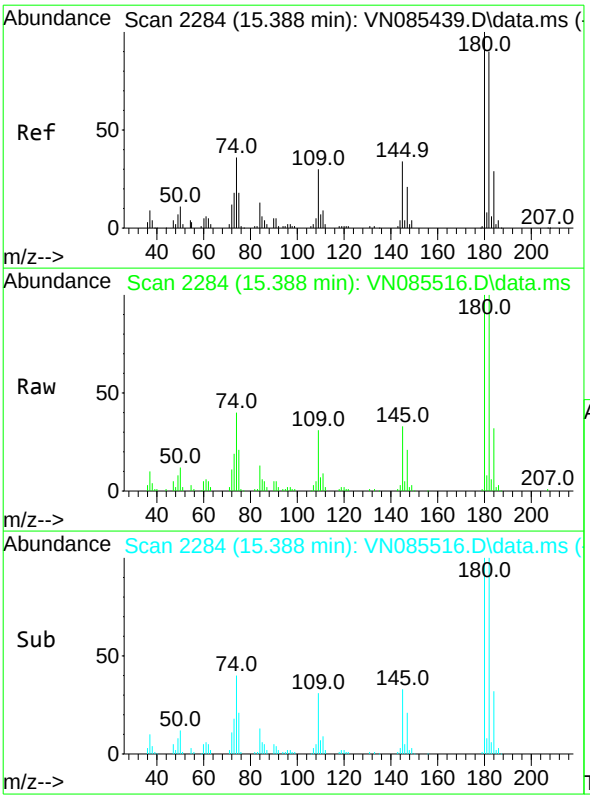




#92
1,2-Dibromo-3-Chloropropane
Concen: 53.066 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion: 75 Resp: 32340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 73.3 | 36.4 | 109.2 |
| 157 | 91.7 | 45.4 | 136.1 |






#93
1,2,4-Trichlorobenzene
Concen: 53.634 ug/l
RT: 15.388 min Scan# 22
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

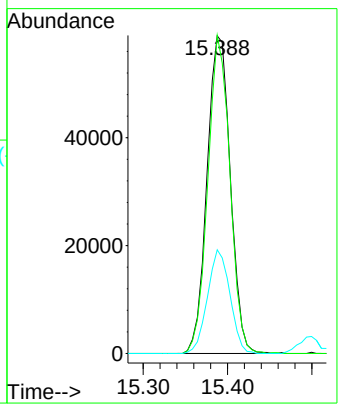
Tgt Ion:180 Resp: 113032

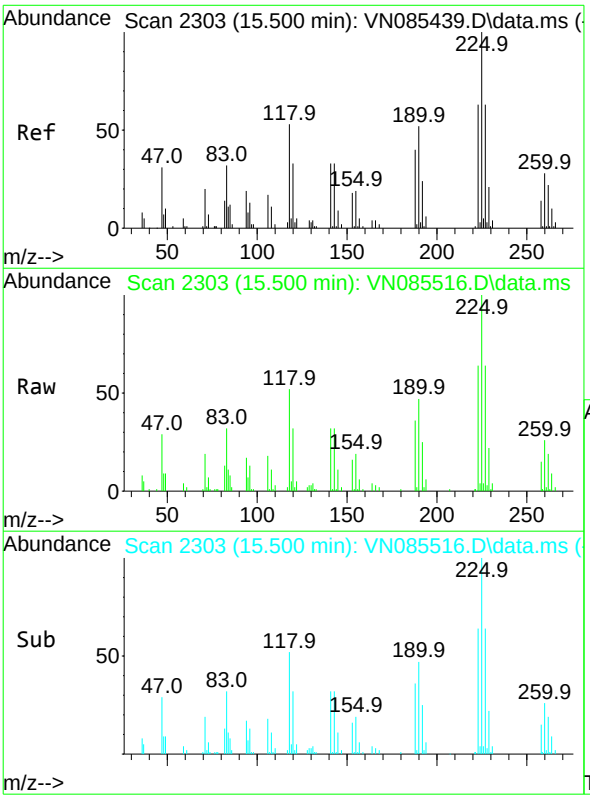
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.9 | 46.8 | 140.3 |
| 145 | 31.5 | 16.0 | 48.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

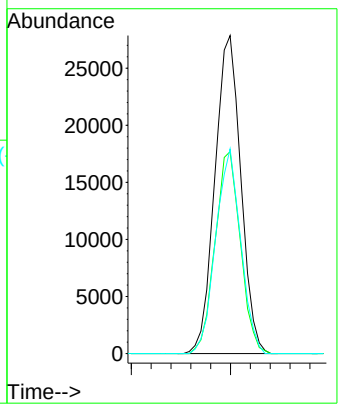


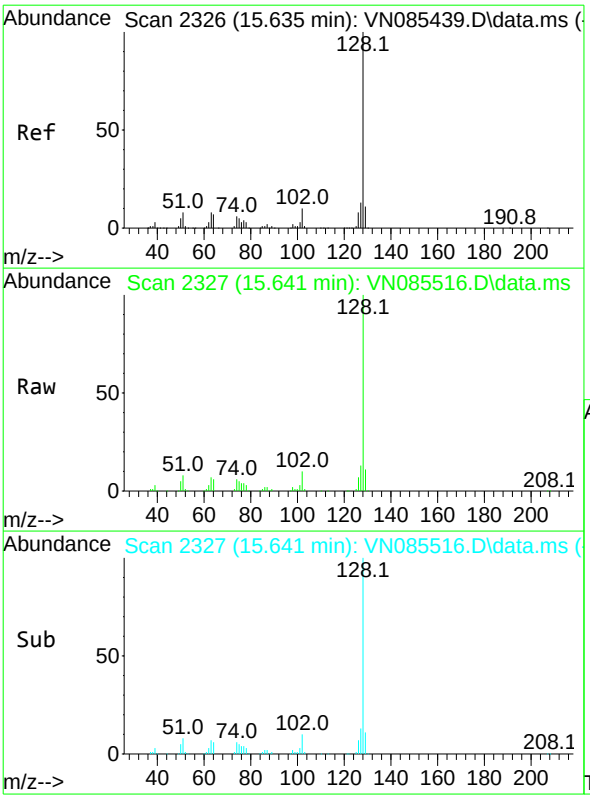




#94
Hexachlorobutadiene
Concen: 45.233 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:225 Resp: 50610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.1 | 30.7 | 92.1 |
| 227 | 62.0 | 30.9 | 92.5 |






#95
Naphthalene
Concen: 56.757 ug/l
RT: 15.641 min Scan# 23
Delta R.T. 0.006 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

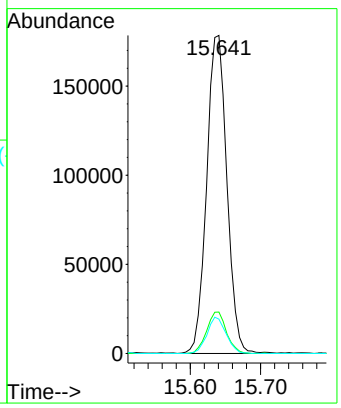
Tgt Ion:128 Resp: 356931

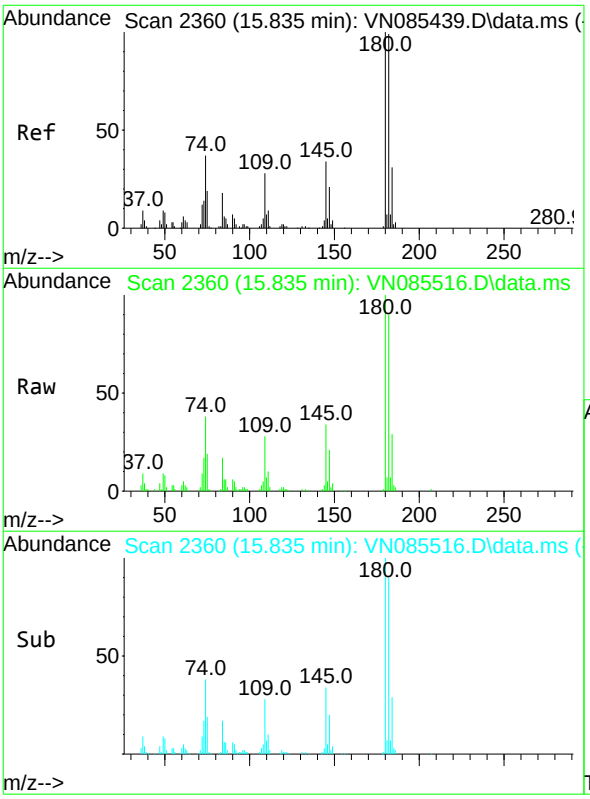
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.6 | 16.0 |
| 129 | 10.8 | 8.8 | 13.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

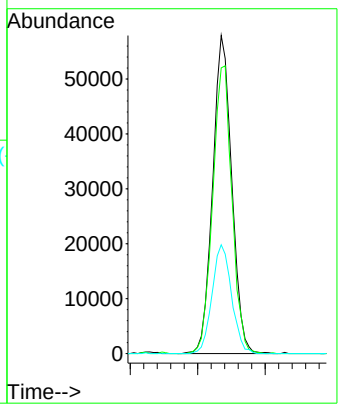



#96
1,2,3-Trichlorobenzene
Concen: 53.337 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085516.D
Acq: 27 Jan 2025 14:50

Tgt Ion:180 Resp: 113736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 91.4 | 47.4 | 142.2 |
| 145 | 35.0 | 16.9 | 50.7 |



Evaluate Continuing Calibration Report

Sample Results: **VN085516.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085516.D
Acq On : 27 Jan 2025 14:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 01:58:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.677 | 0.547 | 19.2 | 78 | 0.00 |
| 3 | P | Chloromethane | 0.733 | 0.639 | 12.8 | 85 | 0.00 |
| 4 | C | Vinyl Chloride | 0.737 | 0.633 | 14.1# | 83 | 0.00 |
| 5 | T | Bromomethane | 0.445 | 0.432 | 2.9 | 93 | 0.00 |
| 6 | T | Chloroethane | 0.467 | 0.434 | 7.1 | 92 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.069 | 0.963 | 9.9 | 87 | 0.00 |
| 8 | T | Diethyl Ether | 0.369 | 0.399 | -8.1 | 100 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.602 | 0.524 | 13.0 | 87 | 0.00 |
| 10 | T | Methyl Iodide | 0.690 | 0.742 | -7.5 | 93 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.092 | 0.124 | -34.8# | 121 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.537 | 0.511 | 4.8# | 87 | 0.00 |
| 13 | T | Acrolein | 0.126 | 0.178 | -41.3# | 115 | 0.00 |
| 14 | T | Allyl chloride | 0.871 | 0.887 | -1.8 | 95 | 0.00 |
| 15 | T | Acrylonitrile | 0.294 | 0.339 | -15.3 | 103 | 0.00 |
| 16 | T | Acetone | 0.261 | 0.281 | -7.7 | 100 | 0.00 |
| 17 | T | Carbon Disulfide | 1.652 | 1.312 | 20.6 | 80 | 0.00 |
| 18 | T | Methyl Acetate | 0.793 | 0.949 | -19.7 | 108 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.742 | 2.172 | -24.7 | 105 | 0.00 |
| 20 | T | Methylene Chloride | 0.646 | 0.674 | -4.3 | 97 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.573 | 0.556 | 3.0 | 90 | 0.00 |
| 22 | T | Diisopropyl ether | 1.933 | 2.261 | -17.0 | 100 | 0.00 |
| 23 | T | Vinyl Acetate | 1.353 | 1.622 | -19.9 | 98 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.178 | 1.235 | -4.8 | 95 | 0.00 |
| 25 | T | 2-Butanone | 0.384 | 0.433 | -12.8 | 100 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.953 | 1.000 | -4.9 | 96 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.675 | 0.728 | -7.9 | 96 | 0.00 |
| 28 | T | Bromochloromethane | 0.548 | 0.503 | 8.2 | 84 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.243 | 0.289 | -18.9 | 100 | 0.00 |
| 30 | C | Chloroform | 1.218 | 1.284 | -5.4# | 99 | 0.00 |
| 31 | T | Cyclohexane | 1.024 | 0.824 | 19.5 | 85 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.068 | 1.050 | 1.7 | 93 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.807 | 0.829 | -2.7 | 90 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.347 | 0.327 | 5.8 | 88 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.487 | 0.434 | 10.9 | 90 | 0.00 |
| 37 | T | Ethyl Acetate | 0.491 | 0.517 | -5.3 | 102 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.557 | 0.493 | 11.5 | 89 | 0.00 |
| 39 | T | Methylcyclohexane | 0.457 | 0.400 | 12.5 | 83 | 0.00 |
| 40 | TM | Benzene | 1.463 | 1.430 | 2.3 | 95 | 0.00 |
| 41 | T | Methacrylonitrile | 0.256 | 0.290 | -13.3 | 103 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.551 | 0.563 | -2.2 | 99 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.787 | 0.865 | -9.9 | 102 | 0.00 |
| 44 | TM | Trichloroethene | 0.341 | 0.323 | 5.3 | 96 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.374 | 0.378 | -1.1# | 98 | 0.00 |
| 46 | T | Dibromomethane | 0.270 | 0.272 | -0.7 | 98 | 0.00 |
| 47 | T | Bromodichloromethane | 0.549 | 0.583 | -6.2 | 100 | 0.00 |
| 48 | T | Methyl methacrylate | 0.354 | 0.407 | -15.0 | 99 | 0.00 |

Sample Results: **VN085516.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085516.D
Acq On : 27 Jan 2025 14:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 01:58:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 0.006 | 0.006 | 0.0 | 95 | 0.00 |
| 50 | S | Toluene-d8 | 1.232 | 1.150 | 6.7 | 87 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.457 | 0.523 | -14.4 | 102 | 0.00 |
| 52 | CM | Toluene | 0.848 | 0.877 | -3.4# | 97 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.519 | 0.584 | -12.5 | 101 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.554 | 0.613 | -10.6 | 100 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.335 | 0.357 | -6.6 | 101 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.469 | 0.581 | -23.9 | 102 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.583 | 0.632 | -8.4 | 101 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.213 | 0.254 | -19.2 | 101 | 0.00 |
| 59 | T | 2-Hexanone | 0.321 | 0.375 | -16.8 | 101 | 0.00 |
| 60 | T | Dibromochloromethane | 0.405 | 0.436 | -7.7 | 101 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.334 | 0.357 | -6.9 | 102 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.422 | 0.421 | 0.2 | 90 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 64 | T | Tetrachloroethene | 0.341 | 0.320 | 6.2 | 95 | 0.00 |
| 65 | PM | Chlorobenzene | 1.095 | 1.094 | 0.1 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.402 | 0.414 | -3.0 | 101 | 0.00 |
| 67 | C | Ethyl Benzene | 1.784 | 1.852 | -3.8# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 0.659 | 0.705 | -7.0 | 95 | 0.00 |
| 69 | T | o-Xylene | 0.630 | 0.689 | -9.4 | 97 | 0.00 |
| 70 | T | Styrene | 1.043 | 1.211 | -16.1 | 99 | 0.00 |
| 71 | P | Bromoform | 0.288 | 0.332 | -15.3 | 102 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 73 | T | Isopropylbenzene | 3.375 | 3.414 | -1.2 | 95 | 0.00 |
| 74 | T | N-amyl acetate | 1.517 | 1.717 | -13.2 | 101 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.192 | 1.227 | -2.9 | 102 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.016 | 1.157 | -13.9 | 124 | 0.00 |
| 77 | T | Bromobenzene | 0.882 | 0.908 | -2.9 | 101 | 0.00 |
| 78 | T | n-propylbenzene | 3.995 | 4.099 | -2.6 | 94 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.586 | 2.619 | -1.3 | 97 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.787 | 2.960 | -6.2 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.376 | 0.423 | -12.5 | 104 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.574 | 2.680 | -4.1 | 99 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.341 | 2.385 | -1.9 | 93 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.778 | 3.030 | -9.1 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.244 | 3.337 | -2.9 | 93 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.631 | 2.795 | -6.2 | 93 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.624 | 1.629 | -0.3 | 99 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.683 | 1.636 | 2.8 | 100 | 0.00 |
| 89 | T | n-Butylbenzene | 2.327 | 2.427 | -4.3 | 93 | 0.00 |
| 90 | T | Hexachloroethane | 0.618 | 0.576 | 6.8 | 95 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.620 | 1.617 | 0.2 | 99 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.218 | 0.231 | -6.0 | 99 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.753 | 0.807 | -7.2 | 99 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.400 | 0.362 | 9.5 | 94 | 0.00 |
| 95 | T | Naphthalene | 2.246 | 2.550 | -13.5 | 98 | 0.00 |

Sample Results: **VN085516.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085516.D
Acq On : 27 Jan 2025 14:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 01:58:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 0.762 | 0.812 | -6.6 | 99 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Sample Results: **VN085516.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085516.D
Acq On : 27 Jan 2025 14:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 01:58:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 90 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 40.416 | 19.2 | 78 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 43.600 | 12.8 | 85 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 42.942 | 14.1# | 83 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 48.552 | 2.9 | 93 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 46.485 | 7.0 | 92 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 45.038 | 9.9 | 87 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 54.034 | -8.1 | 100 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 43.494 | 13.0 | 87 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 53.794 | -7.6 | 93 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 336.724 | -34.7# | 121 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.624 | 4.8# | 87 | 0.00 |
| 13 | T | Acrolein | 250.000 | 353.168 | -41.3# | 115 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 50.950 | -1.9 | 95 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 288.732 | -15.5 | 103 | 0.00 |
| 16 | T | Acetone | 250.000 | 268.940 | -7.6 | 100 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 39.695 | 20.6 | 80 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 59.834 | -19.7 | 108 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 62.329 | -24.7 | 105 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 52.169 | -4.3 | 97 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 48.496 | 3.0 | 90 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 58.486 | -17.0 | 100 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 299.808 | -19.9 | 98 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 52.404 | -4.8 | 95 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 282.299 | -12.9 | 100 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 52.477 | -5.0 | 96 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 53.882 | -7.8 | 96 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 45.830 | 8.3 | 84 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 296.615 | -18.6 | 100 | 0.00 |
| 30 | C | Chloroform | 50.000 | 52.690 | -5.4# | 99 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 40.242 | 19.5 | 85 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 49.141 | 1.7 | 93 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 51.339 | -2.7 | 90 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 96 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 47.131 | 5.7 | 88 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 44.609 | 10.8 | 90 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 52.636 | -5.3 | 102 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 44.219 | 11.6 | 89 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 43.668 | 12.7 | 83 | 0.00 |
| 40 | TM | Benzene | 50.000 | 48.872 | 2.3 | 95 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 56.659 | -13.3 | 103 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 51.070 | -2.1 | 99 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 54.960 | -9.9 | 102 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 47.381 | 5.2 | 96 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.565 | -1.1# | 98 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 50.387 | -0.8 | 98 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 53.106 | -6.2 | 100 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 57.400 | -14.8 | 99 | 0.00 |

Sample Results: **VN085516.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085516.D
Acq On : 27 Jan 2025 14:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 01:58:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 1046.827 | -4.7 | 95 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 46.653 | 6.7 | 87 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 286.205 | -14.5 | 102 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.711 | -3.4# | 97 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 56.226 | -12.5 | 101 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 55.257 | -10.5 | 100 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 53.253 | -6.5 | 101 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 51.325 | -2.7 | 102 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 54.178 | -8.4 | 101 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 298.097 | -19.2 | 101 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 291.243 | -16.5 | 101 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 53.886 | -7.8 | 101 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 53.477 | -7.0 | 102 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 49.932 | 0.1 | 90 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 96 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 46.937 | 6.1 | 95 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.960 | 0.1 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.540 | -3.1 | 101 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 51.901 | -3.8# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 106.992 | -7.0 | 95 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 54.703 | -9.4 | 97 | 0.00 |
| 70 | T | Styrene | 50.000 | 58.055 | -16.1 | 99 | 0.00 |
| 71 | P | Bromoform | 50.000 | 57.773 | -15.5 | 102 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 95 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 50.579 | -1.2 | 95 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 56.596 | -13.2 | 101 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 51.447 | -2.9 | 102 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 56.904 | -13.8 | 124 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 51.493 | -3.0 | 101 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 51.306 | -2.6 | 94 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 50.647 | -1.3 | 97 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 53.097 | -6.2 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 56.364 | -12.7 | 104 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 52.054 | -4.1 | 99 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.940 | -1.9 | 93 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 54.525 | -9.0 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.427 | -2.9 | 93 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 48.059 | 3.9 | 93 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.168 | -0.3 | 99 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.601 | 2.8 | 100 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 52.144 | -4.3 | 93 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 46.631 | 6.7 | 95 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 49.930 | 0.1 | 99 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.066 | -6.1 | 99 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 53.634 | -7.3 | 99 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 45.233 | 9.5 | 94 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 56.757 | -13.5 | 98 | 0.00 |

Sample Results: **VN085516.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085516.D
Acq On : 27 Jan 2025 14:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 01:58:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 53.337 | -6.7 | 99 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VN085526.D**

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

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1194 SAS No.: Q1194 SDG No.: Q1194

Instrument ID: MSVOA_N Calibration Date/Time: 01/28/2025 09:53

Lab File ID: VN085526.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.677 | 0.620 | | -8.42 | 20 |
| Chloromethane | 0.733 | 0.642 | 0.1 | -12.41 | 20 |
| Vinyl Chloride | 0.737 | 0.665 | | -9.77 | 20 |
| Bromomethane | 0.445 | 0.389 | | -12.58 | 20 |
| Chloroethane | 0.467 | 0.439 | | -6 | 20 |
| Trichlorofluoromethane | 1.069 | 1.071 | | 0.19 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.602 | 0.618 | | 2.66 | 20 |
| 1,1-Dichloroethene | 0.537 | 0.526 | | -2.05 | 20 |
| Acetone | 0.261 | 0.263 | | 0.77 | 20 |
| Carbon Disulfide | 1.652 | 1.391 | | -15.8 | 20 |
| Methyl tert-butyl Ether | 1.742 | 1.940 | | 11.37 | 20 |
| Methyl Acetate | 0.793 | 0.859 | | 8.32 | 20 |
| Methylene Chloride | 0.646 | 0.645 | | -0.16 | 20 |
| trans-1,2-Dichloroethene | 0.573 | 0.570 | | -0.52 | 20 |
| 1,1-Dichloroethane | 1.178 | 1.202 | 0.1 | 2.04 | 20 |
| Cyclohexane | 1.024 | 0.931 | | -9.08 | 20 |
| 2-Butanone | 0.384 | 0.399 | | 3.91 | 20 |
| Carbon Tetrachloride | 0.557 | 0.602 | | 8.08 | 20 |
| cis-1,2-Dichloroethene | 0.675 | 0.700 | | 3.7 | 20 |
| Bromochloromethane | 0.548 | 0.499 | | -8.94 | 20 |
| Chloroform | 1.218 | 1.248 | | 2.46 | 20 |
| 1,1,1-Trichloroethane | 1.068 | 1.105 | | 3.46 | 20 |
| Methylcyclohexane | 0.457 | 0.513 | | 12.25 | 20 |
| Benzene | 1.463 | 1.575 | | 7.66 | 20 |
| 1,2-Dichloroethane | 0.551 | 0.585 | | 6.17 | 20 |
| Trichloroethene | 0.341 | 0.359 | | 5.28 | 20 |
| 1,2-Dichloropropane | 0.374 | 0.407 | | 8.82 | 20 |
| Bromodichloromethane | 0.549 | 0.613 | | 11.66 | 20 |
| 4-Methyl-2-Pentanone | 0.457 | 0.535 | | 17.07 | 20 |
| Toluene | 0.848 | 0.975 | | 14.98 | 20 |
| t-1,3-Dichloropropene | 0.519 | 0.611 | | 17.73 | 20 |
| cis-1,3-Dichloropropene | 0.554 | 0.639 | | 15.34 | 20 |
| 1,1,2-Trichloroethane | 0.335 | 0.375 | | 11.94 | 20 |
| 2-Hexanone | 0.321 | 0.386 | | 20.25 | 20 |
| Dibromochloromethane | 0.405 | 0.460 | | 13.58 | 20 |
| 1,2-Dibromoethane | 0.334 | 0.366 | | 9.58 | 20 |
| Tetrachloroethene | 0.341 | 0.361 | | 5.86 | 20 |
| Chlorobenzene | 1.095 | 1.171 | 0.3 | 6.94 | 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: **VN085526.D**

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

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1194 SAS No.: Q1194 SDG No.: Q1194

Instrument ID: MSVOA_N Calibration Date/Time: 01/28/2025 09:53

Lab File ID: VN085526.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.784 | 2.053 | | 15.08 | 20 |
| m/p-Xylenes | 0.659 | 0.785 | | 19.12 | 20 |
| o-Xylene | 0.630 | 0.739 | | 17.3 | 20 |
| Styrene | 1.043 | 1.279 | | 22.63 | 20 |
| Bromoform | 0.288 | 0.334 | 0.1 | 15.97 | 20 |
| Isopropylbenzene | 3.375 | 3.736 | | 10.7 | 20 |
| 1,1,2,2-Tetrachloroethane | 1.192 | 1.170 | 0.3 | -1.85 | 20 |
| 1,3-Dichlorobenzene | 1.624 | 1.699 | | 4.62 | 20 |
| 1,4-Dichlorobenzene | 1.683 | 1.700 | | 1.01 | 20 |
| 1,2-Dichlorobenzene | 1.620 | 1.644 | | 1.48 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.218 | 0.225 | | 3.21 | 20 |
| 1,2,4-Trichlorobenzene | 0.753 | 0.817 | | 8.5 | 20 |
| 1,2,3-Trichlorobenzene | 0.762 | 0.780 | | 2.36 | 20 |
| 1,2-Dichloroethane-d4 | 0.807 | 0.777 | | -3.72 | 20 |
| Dibromofluoromethane | 0.347 | 0.355 | | 2.31 | 20 |
| Toluene-d8 | 1.232 | 1.296 | | 5.2 | 20 |
| 4-Bromofluorobenzene | 0.422 | 0.467 | | 10.66 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Sample Results: **VN085526.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085526.D
Acq On : 28 Jan 2025 09:53
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 29 00:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 203638 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.094 | 114 | 333806 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 302551 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 155713 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 158323 | 48.164 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 96.320% | | | |
| 35) Dibromofluoromethane | 8.159 | 113 | 118662 | 51.240 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 102.480% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 432537 | 52.569 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 105.140% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 155870 | 55.379 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 110.760% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 126280 | 45.800 | ug/l | 98 |
| 3) Chloromethane | 2.359 | 50 | 130825 | 43.823 | ug/l | 99 |
| 4) Vinyl Chloride | 2.512 | 62 | 135494 | 45.155 | ug/l | 98 |
| 5) Bromomethane | 2.948 | 94 | 79311 | 43.757 | ug/l | 98 |
| 6) Chloroethane | 3.118 | 64 | 89399 | 46.993 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.495 | 101 | 218167 | 50.109 | ug/l | 99 |
| 8) Diethyl Ether | 3.959 | 74 | 73428 | 48.819 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 125888 | 51.335 | ug/l | 99 |
| 10) Methyl Iodide | 4.583 | 142 | 144081 | 51.306 | ug/l | 97 |
| 11) Tert butyl alcohol | 5.518 | 59 | 110319 | 293.091 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.336 | 96 | 107139 | 49.022 | ug/l | 98 |
| 13) Acrolein | 4.171 | 56 | 134509 | 261.783 | ug/l | 100 |
| 14) Allyl chloride | 5.018 | 41 | 172649 | 48.683 | ug/l | 98 |
| 15) Acrylonitrile | 5.712 | 53 | 312035 | 260.994 | ug/l | 99 |
| 16) Acetone | 4.418 | 43 | 267575 | 251.929 | ug/l | 97 |
| 17) Carbon Disulfide | 4.712 | 76 | 283263 | 42.095 | ug/l | 98 |
| 18) Methyl Acetate | 5.018 | 43 | 174889 | 54.151 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.789 | 73 | 395014 | 55.663 | ug/l | 98 |
| 20) Methylene Chloride | 5.277 | 84 | 131284 | 49.931 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.783 | 96 | 116065 | 49.692 | ug/l | 97 |
| 22) Diisopropyl ether | 6.665 | 45 | 426926 | 54.237 | ug/l | 98 |
| 23) Vinyl Acetate | 6.600 | 43 | 1520538 | 276.027 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.565 | 63 | 244849 | 51.014 | ug/l | 98 |
| 25) 2-Butanone | 7.477 | 43 | 406723 | 260.223 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.483 | 77 | 223673 | 57.640 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.483 | 96 | 142501 | 51.799 | ug/l | 99 |
| 28) Bromochloromethane | 7.812 | 49 | 101613 | 45.505 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.830 | 42 | 272222 | 274.712 | ug/l | 100 |
| 30) Chloroform | 7.959 | 83 | 254209 | 51.246 | ug/l | 100 |
| 31) Cyclohexane | 8.253 | 56 | 189607 | 45.451 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 225078 | 51.727 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.365 | 75 | 170755 | 52.537 | ug/l | 99 |
| 37) Ethyl Acetate | 7.553 | 43 | 173618 | 52.923 | ug/l | 97 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 200977 | 54.013 | ug/l | 99 |
| 39) Methylcyclohexane | 9.600 | 83 | 171154 | 56.039 | ug/l | 99 |
| 40) Benzene | 8.600 | 78 | 525669 | 53.828 | ug/l | 100 |

Sample Results: **VN085526.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085526.D
Acq On : 28 Jan 2025 09:53
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 29 00:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.771 | 41 | 95095 | 55.717 ug/l | 99 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 195201 | 53.072 ug/l | 99 |
| 43) Isopropyl Acetate | 8.683 | 43 | 287826 | 54.755 ug/l | 100 |
| 44) Trichloroethene | 9.347 | 130 | 119734 | 52.672 ug/l | 95 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 135814 | 54.447 ug/l | 97 |
| 46) Dibromomethane | 9.706 | 93 | 95715 | 53.179 ug/l | 99 |
| 47) Bromodichloromethane | 9.883 | 83 | 204517 | 55.774 ug/l | 99 |
| 48) Methyl methacrylate | 9.677 | 41 | 136479 | 57.693 ug/l | 97 |
| 49) 1,4-Dioxane | 9.688 | 88 | 40607 | 1019.345 ug/l | 100 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 892528 | 292.599 ug/l | 100 |
| 52) Toluene | 10.630 | 92 | 325356 | 57.499 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.830 | 75 | 204105 | 58.899 ug/l | 96 |
| 54) cis-1,3-Dichloropropene | 10.306 | 75 | 213245 | 57.610 ug/l | 99 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 125068 | 55.851 ug/l | 98 |
| 56) Ethyl methacrylate | 10.871 | 69 | 191924 | 50.844 ug/l | 99 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 219323 | 56.327 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 426978 | 300.465 ug/l | 99 |
| 59) 2-Hexanone | 11.194 | 43 | 643969 | 300.034 ug/l | 99 |
| 60) Dibromochloromethane | 11.359 | 129 | 153599 | 56.815 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 122098 | 54.776 ug/l | 97 |
| 64) Tetrachloroethene | 11.100 | 164 | 109264 | 52.974 ug/l | 98 |
| 65) Chlorobenzene | 11.888 | 112 | 354308 | 53.457 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 130012 | 53.447 ug/l | 99 |
| 67) Ethyl Benzene | 11.959 | 91 | 621051 | 57.531 ug/l | 99 |
| 68) m/p-Xylenes | 12.065 | 106 | 475266 | 119.124 ug/l | 99 |
| 69) o-Xylene | 12.394 | 106 | 223578 | 58.639 ug/l | 100 |
| 70) Styrene | 12.406 | 104 | 387081 | 61.343 ug/l | 99 |
| 71) Bromoform | 12.576 | 173 | 101032 | 58.046 ug/l # | 99 |
| 73) Isopropylbenzene | 12.694 | 105 | 581759 | 55.357 ug/l | 100 |
| 74) N-amyl acetate | 12.494 | 43 | 249973 | 52.919 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 182235 | 49.089 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 147100m | 46.478 ug/l | |
| 77) Bromobenzene | 12.976 | 156 | 138788 | 50.547 ug/l | 99 |
| 78) n-propylbenzene | 13.035 | 91 | 701218 | 56.362 ug/l | 100 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 424851 | 52.764 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.171 | 105 | 494666 | 56.984 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 63601 | 54.370 ug/l | 92 |
| 82) 4-Chlorotoluene | 13.218 | 91 | 432608 | 53.960 ug/l | 98 |
| 83) tert-Butylbenzene | 13.435 | 119 | 405613 | 55.641 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.482 | 105 | 501298 | 57.941 ug/l | 100 |
| 85) sec-Butylbenzene | 13.612 | 105 | 580942 | 57.499 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.729 | 119 | 491281 | 53.532 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 264631 | 52.335 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.806 | 146 | 264719 | 50.507 ug/l | 98 |
| 89) n-Butylbenzene | 14.053 | 91 | 420498 | 58.013 ug/l | 99 |
| 90) Hexachloroethane | 14.329 | 117 | 97383 | 50.630 ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 255916 | 50.739 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 34993 | 51.620 ug/l | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 127164 | 54.246 ug/l | 100 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 63906 | 51.348 ug/l | 99 |
| 95) Naphthalene | 15.641 | 128 | 367063 | 52.473 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 121516 | 51.230 ug/l | 99 |

Sample Results: **VN085526.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085526.D
Acq On : 28 Jan 2025 09:53
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

Quant Time: Jan 29 00:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

Sample Results: **VN085526.D**

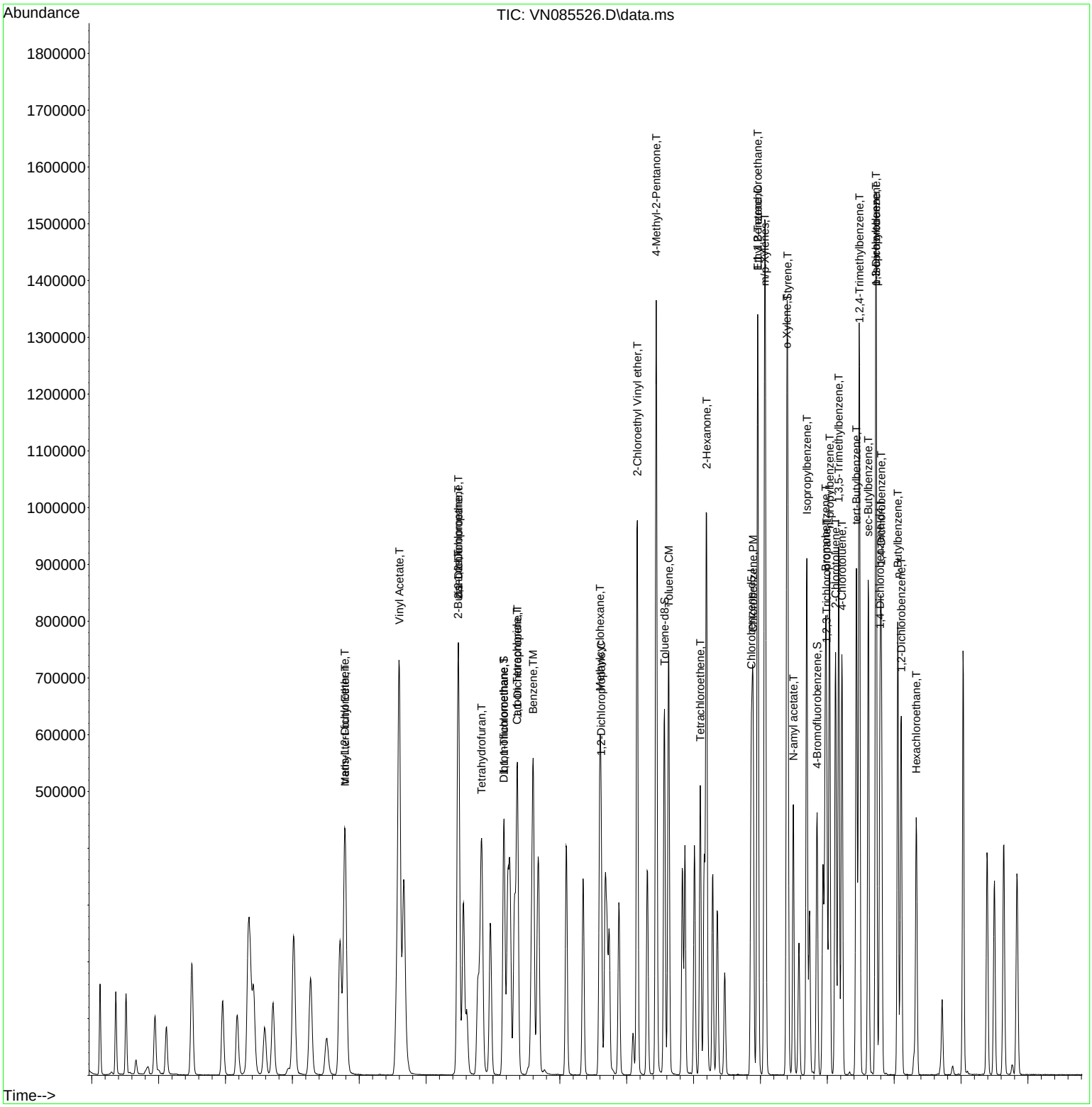
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085526.D
Acq On : 28 Jan 2025 09:53
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

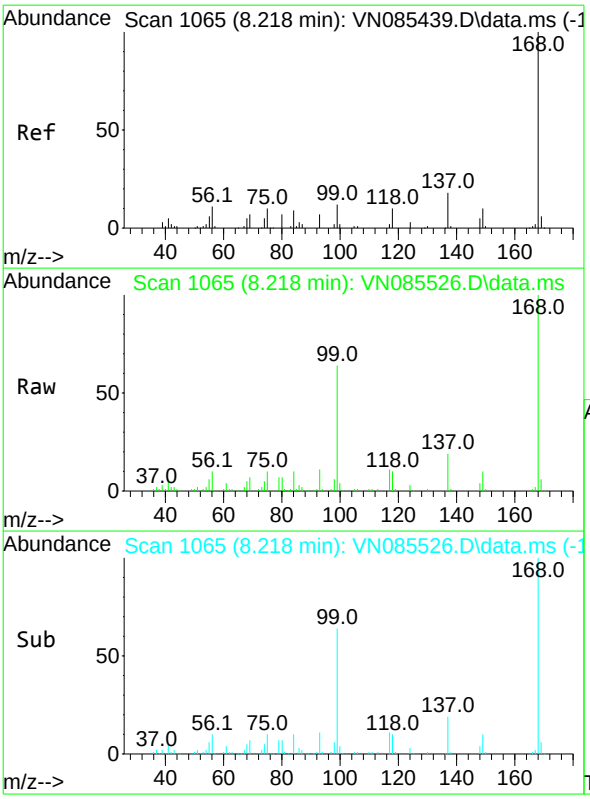
Quant Time: Jan 29 00:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

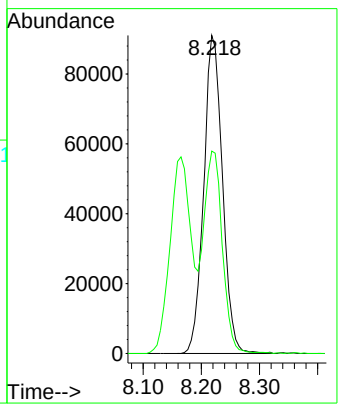
Tgt Ion:168 Resp: 203638

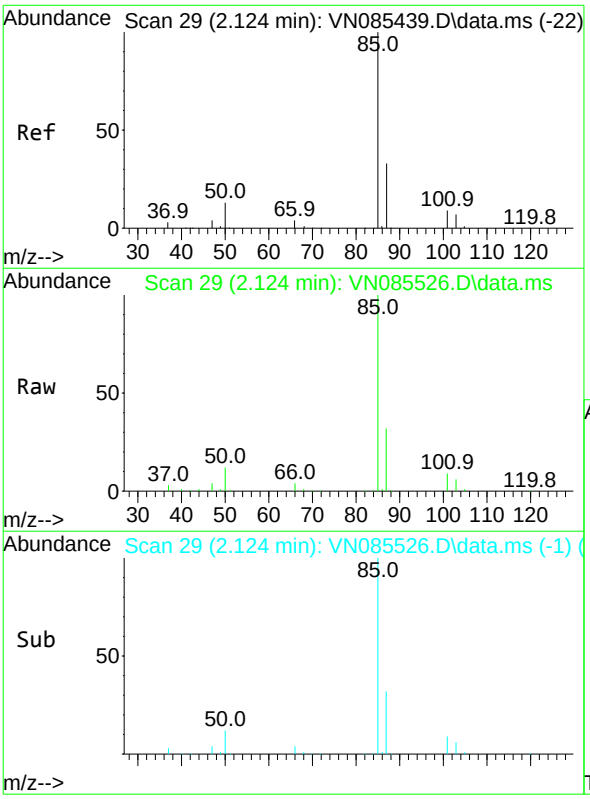
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.5 | 53.6 | 80.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

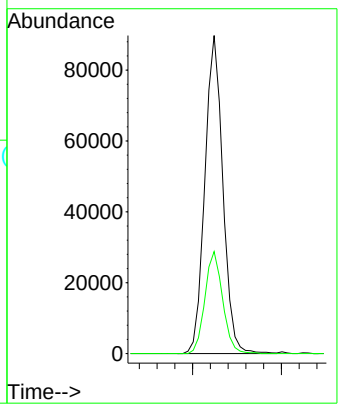


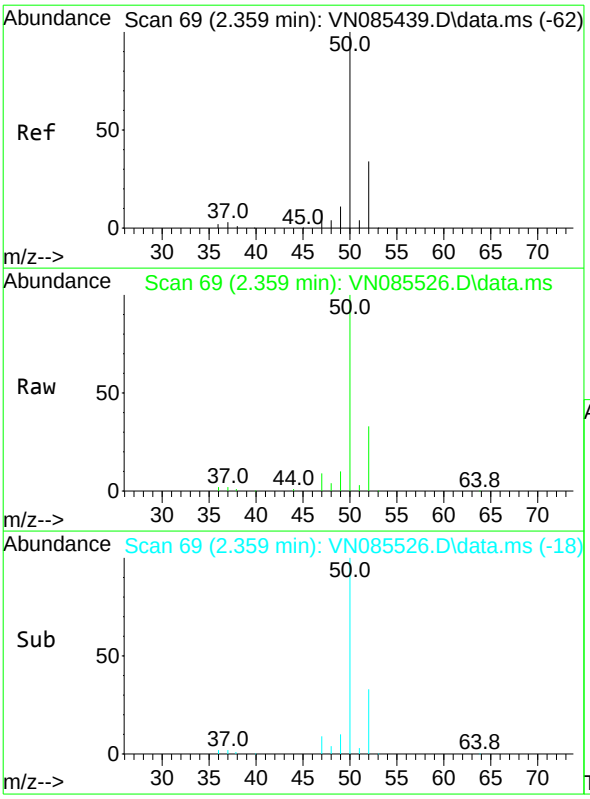




#2
Dichlorodifluoromethane
Concen: 45.800 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 85 Resp: 126280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.1 | 16.7 | 50.1 |






#3
Chloromethane
Concen: 43.823 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

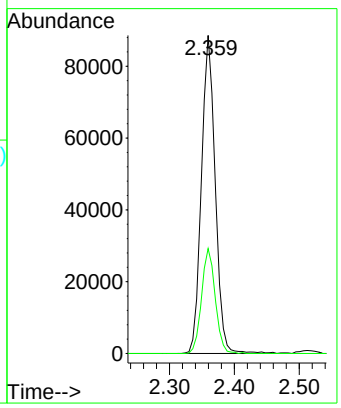
Tgt Ion: 50 Resp: 130825

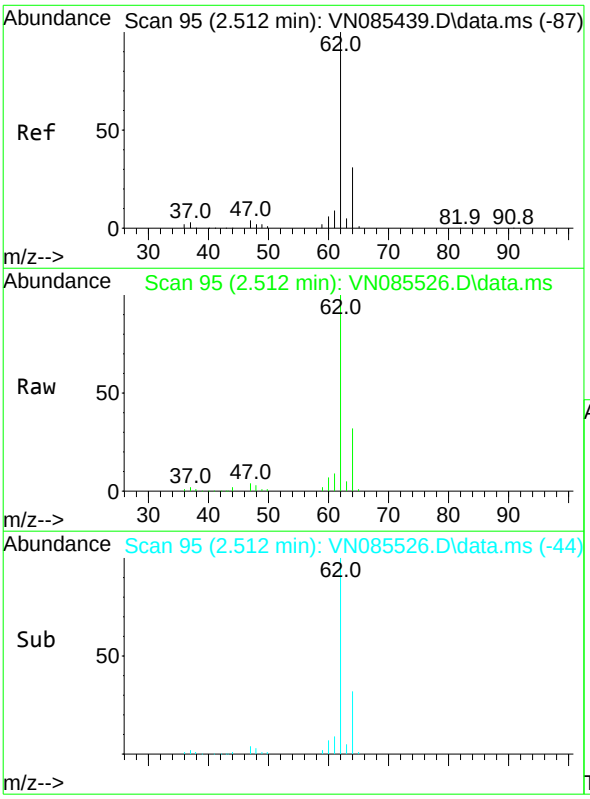
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 27.0 | 40.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

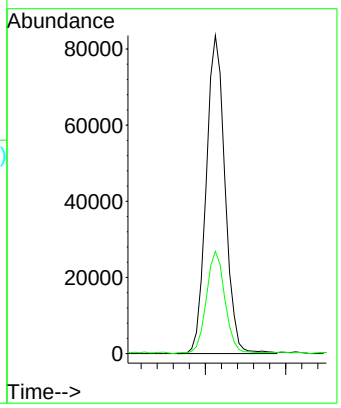


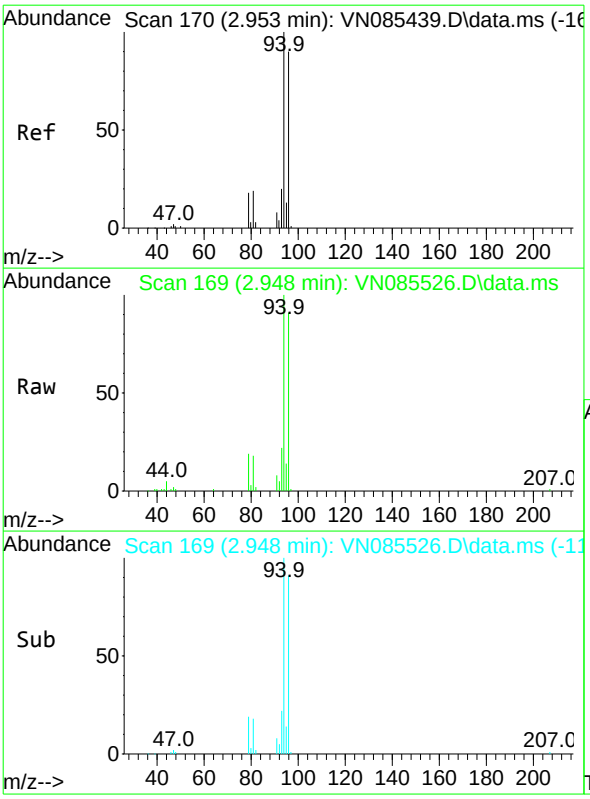




#4
Vinyl Chloride
Concen: 45.155 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 62 Resp: 135494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.9 | 24.8 | 37.2 |






#5
Bromomethane
Concen: 43.757 ug/l
RT: 2.948 min Scan# 16
Delta R.T. -0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

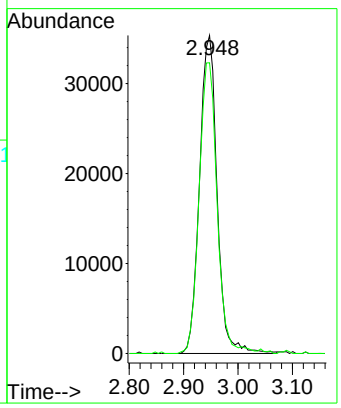
Tgt Ion: 94 Resp: 79311

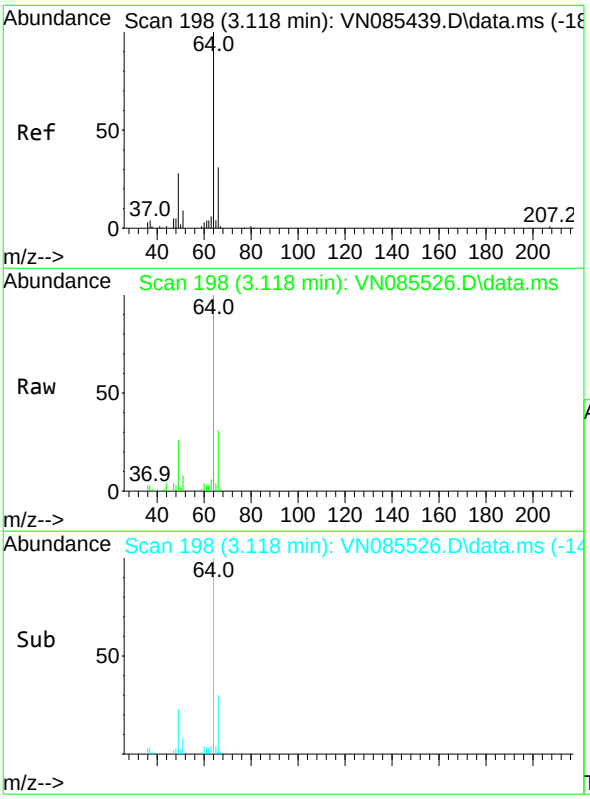
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.4 | 71.8 | 107.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

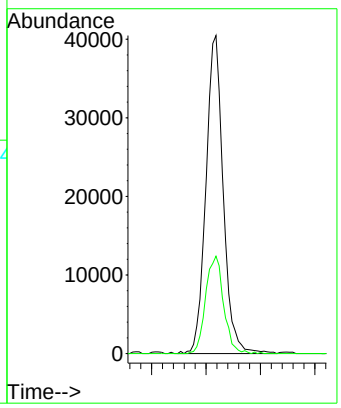


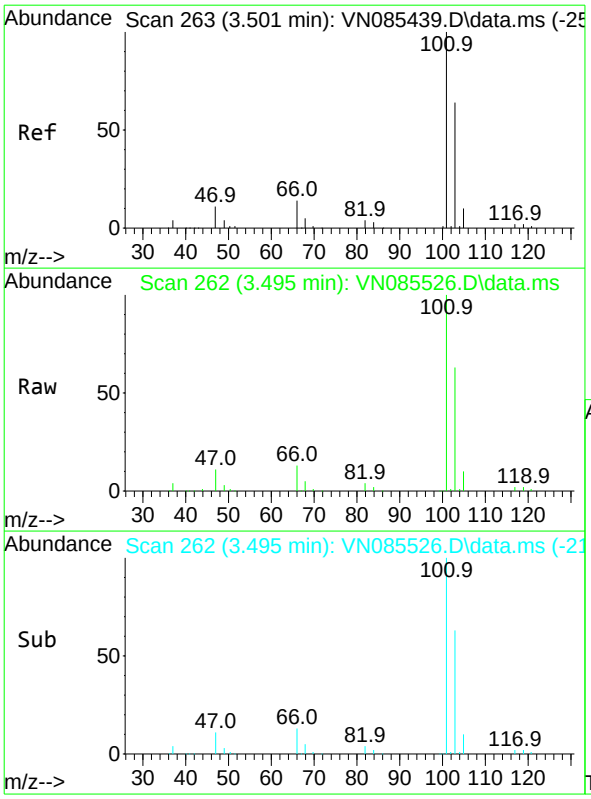




#6
Chloroethane
Concen: 46.993 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 64 Resp: 89399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.6 | 24.6 | 36.8 |






#7
Trichlorofluoromethane
Concen: 50.109 ug/l
RT: 3.495 min Scan# 26
Delta R.T. -0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

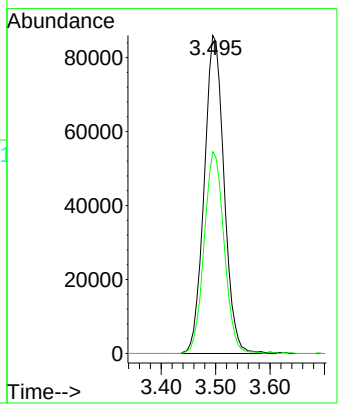
Tgt Ion:101 Resp: 218167

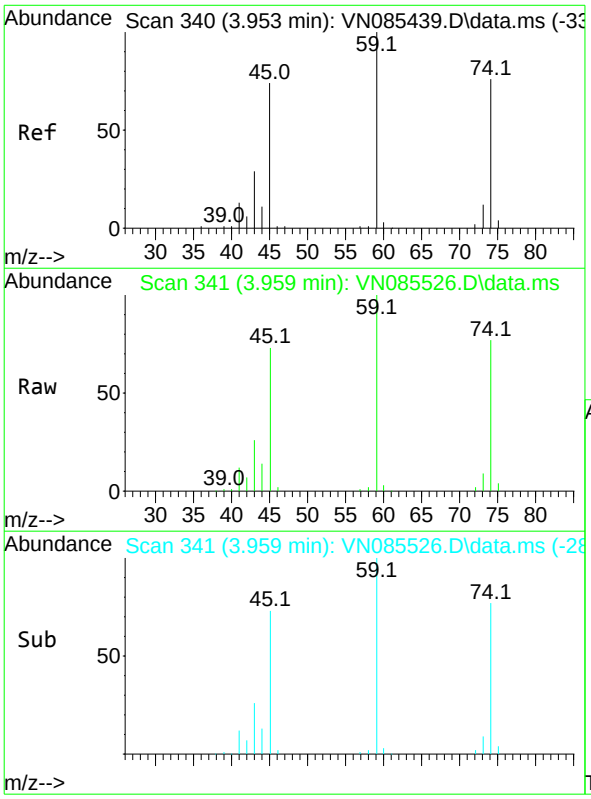
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.5 | 51.4 | 77.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

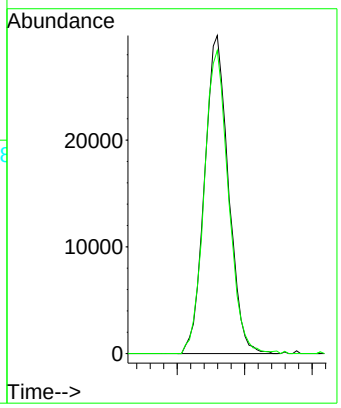


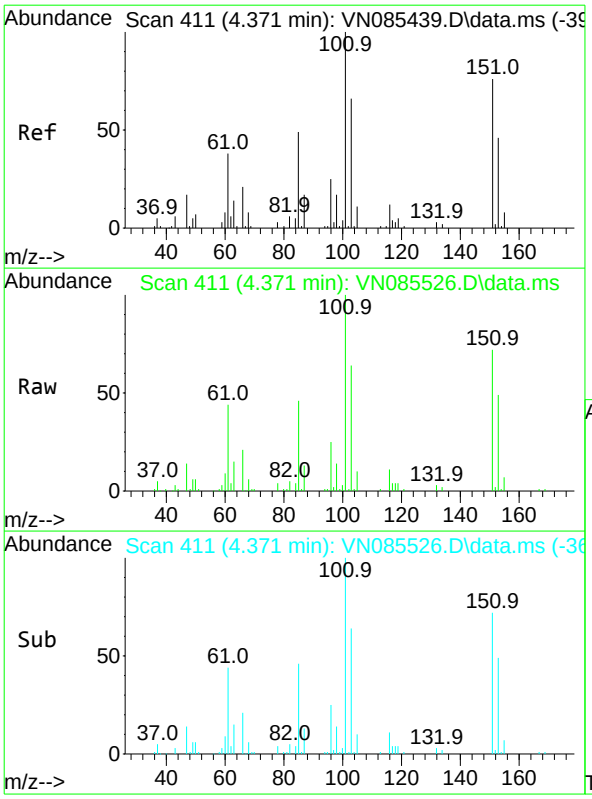




#8
Diethyl Ether
Concen: 48.819 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 74 Resp: 73428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 96.9 | 49.7 | 149.1 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.335 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

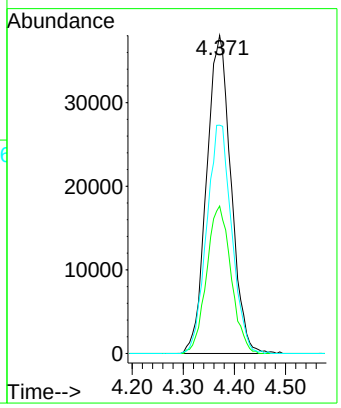
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

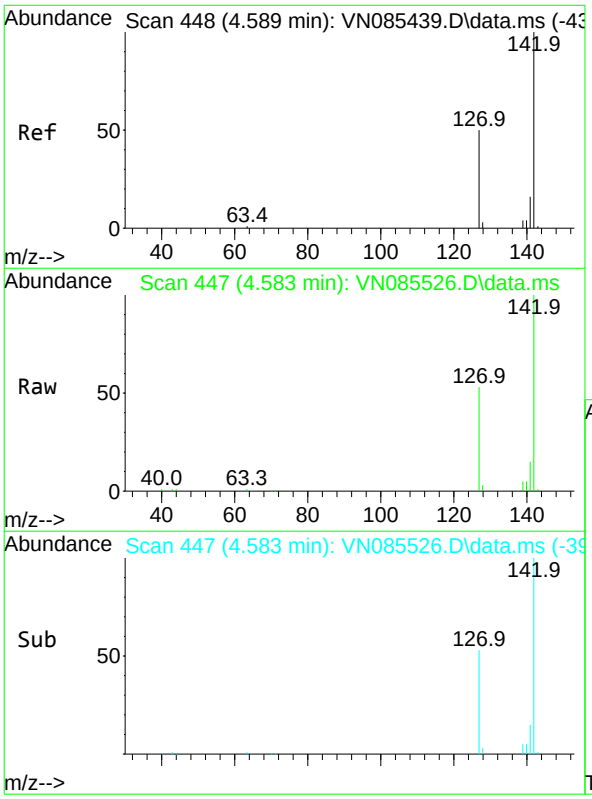
Tgt Ion:101 Resp: 125888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.4 | 37.8 | 56.8 |
| 151 | 73.8 | 58.8 | 88.2 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

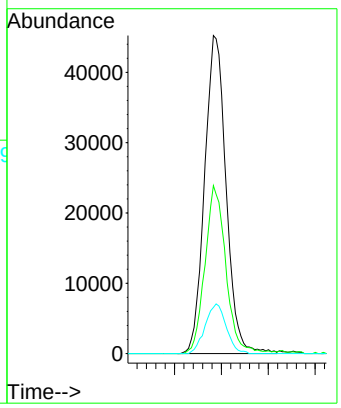


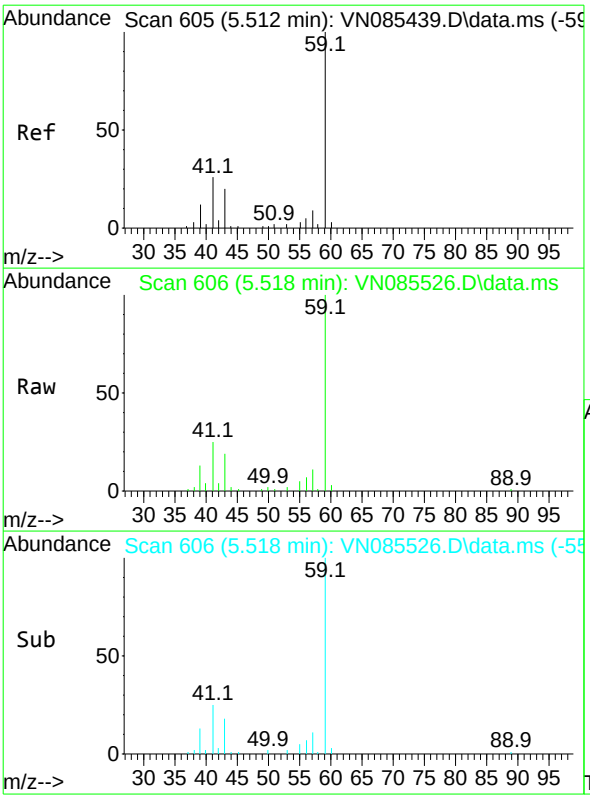




#10
Methyl Iodide
Concen: 51.306 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:142 Resp: 144081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 52.8 | 40.3 | 60.5 |
| 141 | 14.5 | 12.8 | 19.2 |






#11
Tert butyl alcohol
Concen: 293.091 ug/l
RT: 5.518 min Scan# 60
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

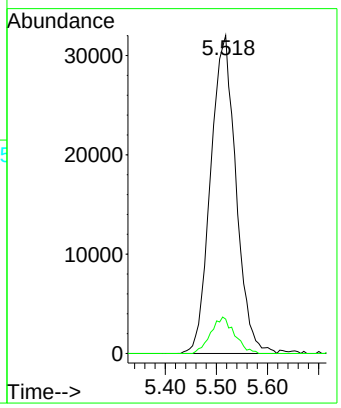
Tgt Ion: 59 Resp: 110319

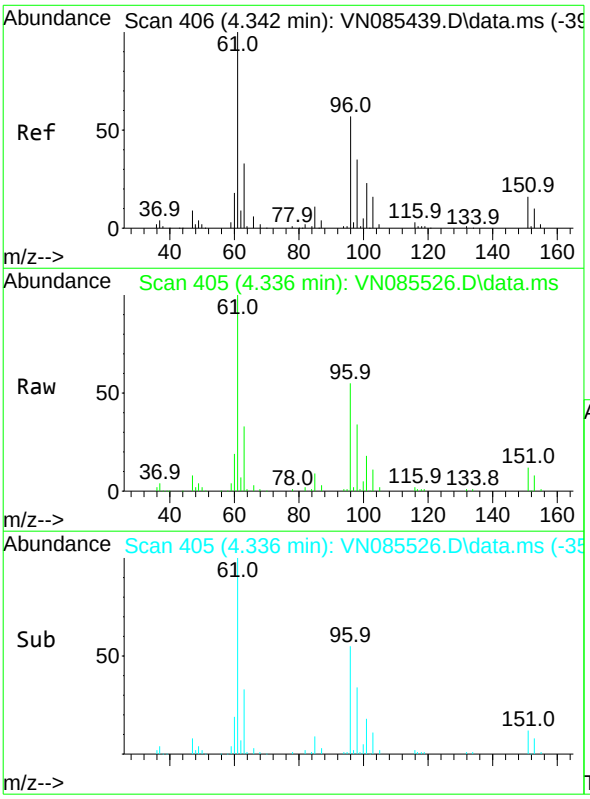
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.6 | 13.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

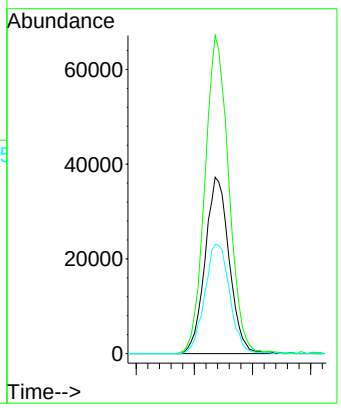


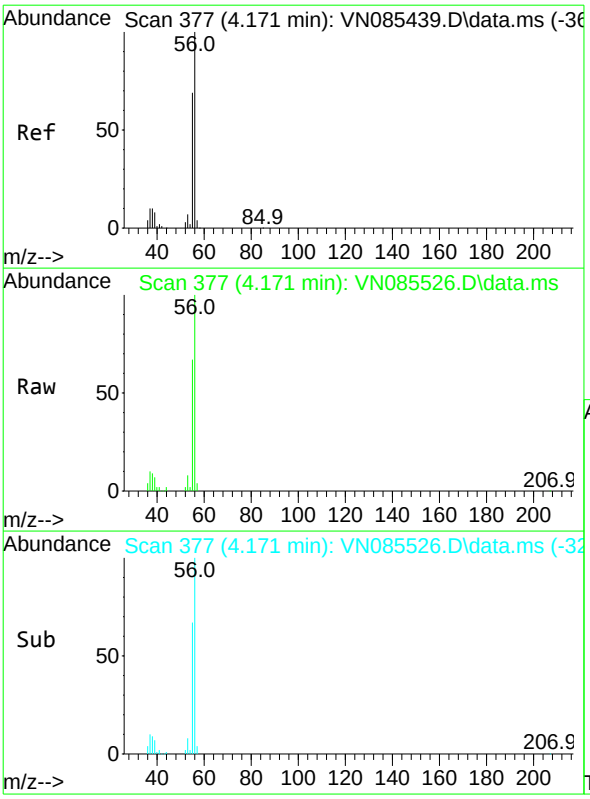




#12
1,1-Dichloroethene
Concen: 49.022 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 96 Resp: 107139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 180.3 | 141.0 | 211.4 |
| 98 | 61.9 | 49.0 | 73.6 |






#13
Acrolein
Concen: 261.783 ug/l
RT: 4.171 min Scan# 37
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

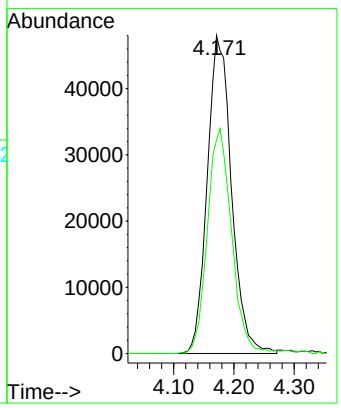
Tgt Ion: 56 Resp: 134509

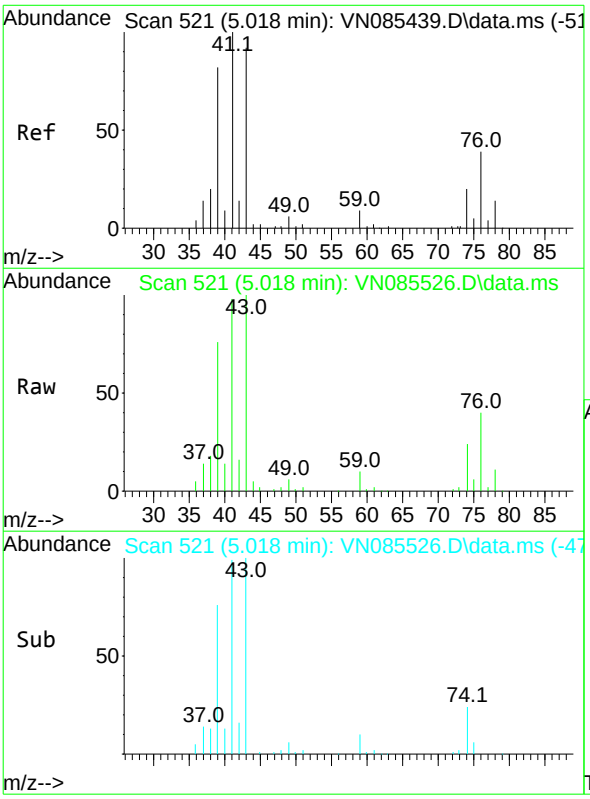
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.5 | 56.3 | 84.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

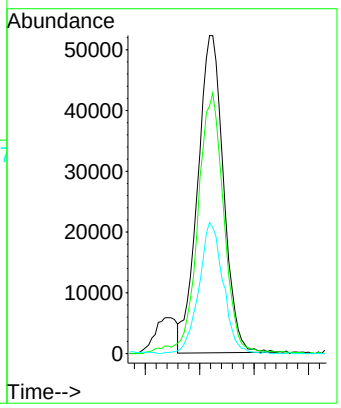


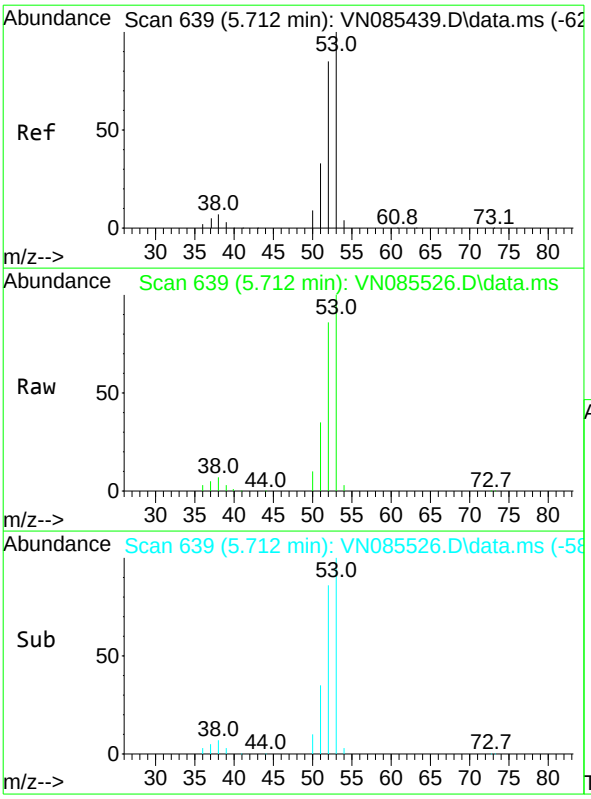




#14
Allyl chloride
Concen: 48.683 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 41 Resp: 172649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 82.7 | 64.4 | 96.6 |
| 76 | 38.6 | 30.5 | 45.7 |






#15
Acrylonitrile
Concen: 260.994 ug/l
RT: 5.712 min Scan# 63
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

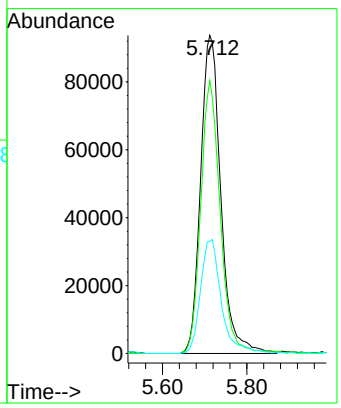
Tgt Ion: 53 Resp: 312035

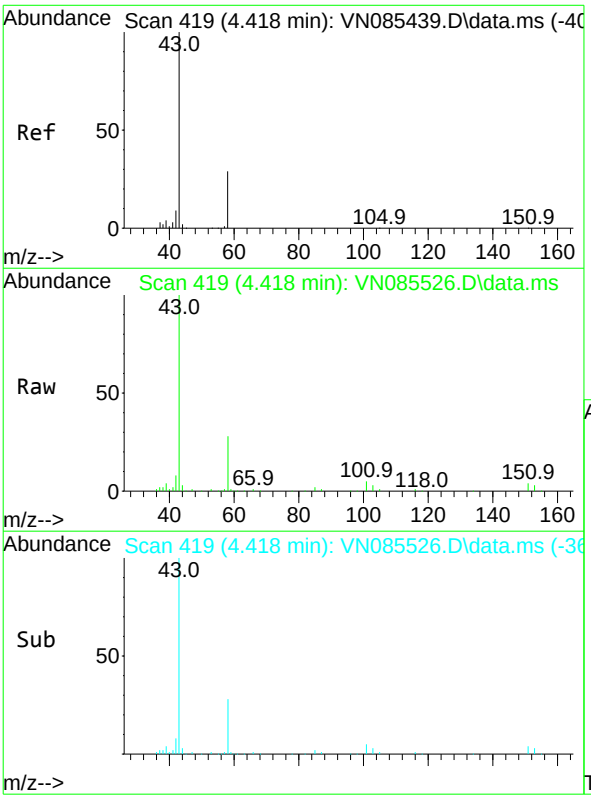
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.4 | 65.5 | 98.3 |
| 51 | 36.9 | 29.8 | 44.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

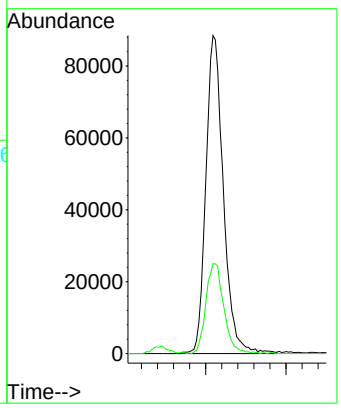


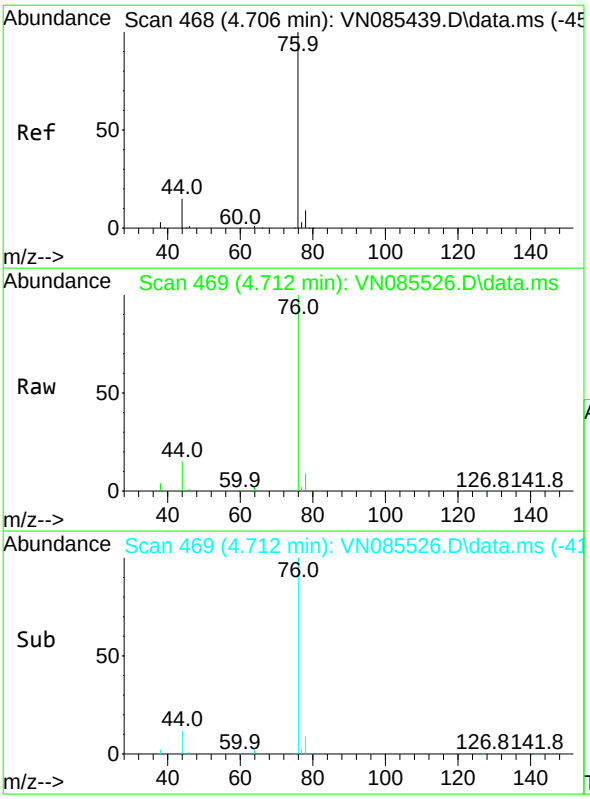




#16
Acetone
Concen: 251.929 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 43 Resp: 267575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.2 | 23.8 | 35.6 |






#17
Carbon Disulfide
Concen: 42.095 ug/l
RT: 4.712 min Scan# 46
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

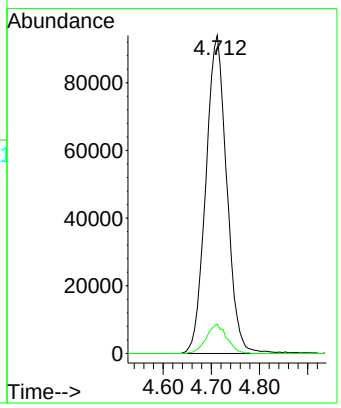
Tgt Ion: 76 Resp: 283263

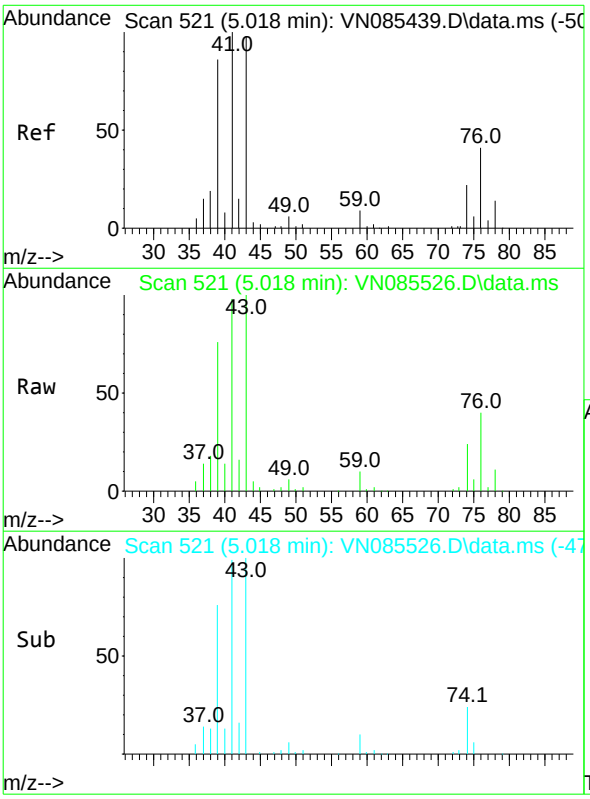
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 6.9 | 10.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

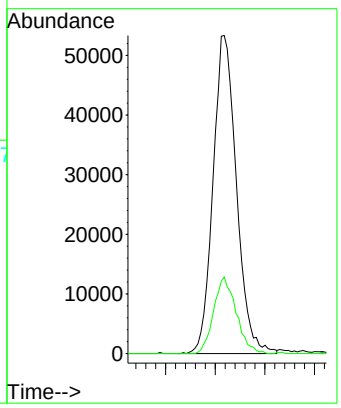


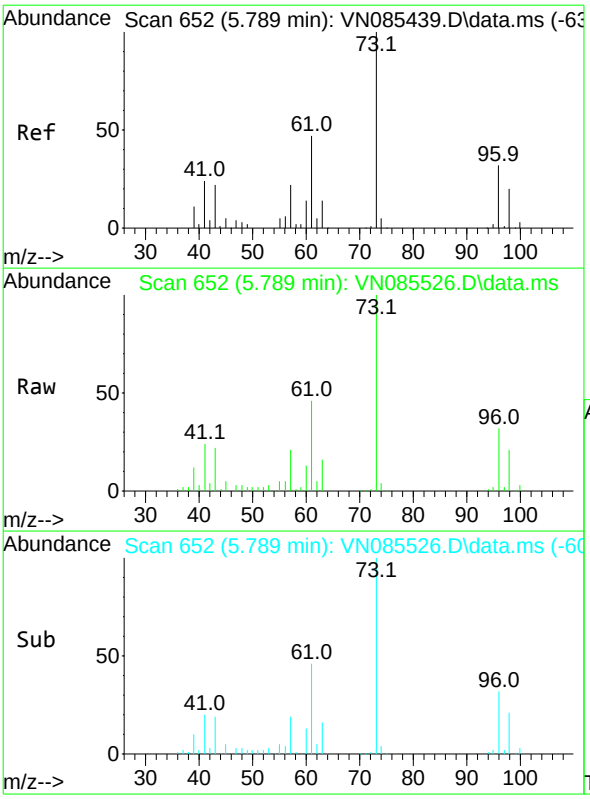




#18
Methyl Acetate
Concen: 54.151 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 43 Resp: 174889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.1 | 18.6 | 28.0 |






#19
Methyl tert-butyl Ether
Concen: 55.663 ug/l
RT: 5.789 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 73 Resp: 395014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.3 | 17.8 | 26.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
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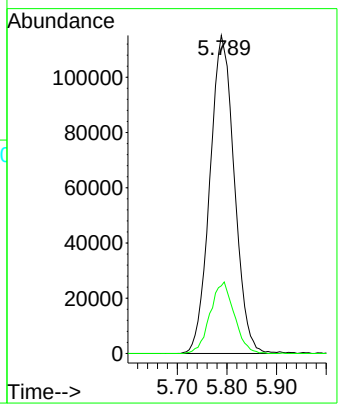
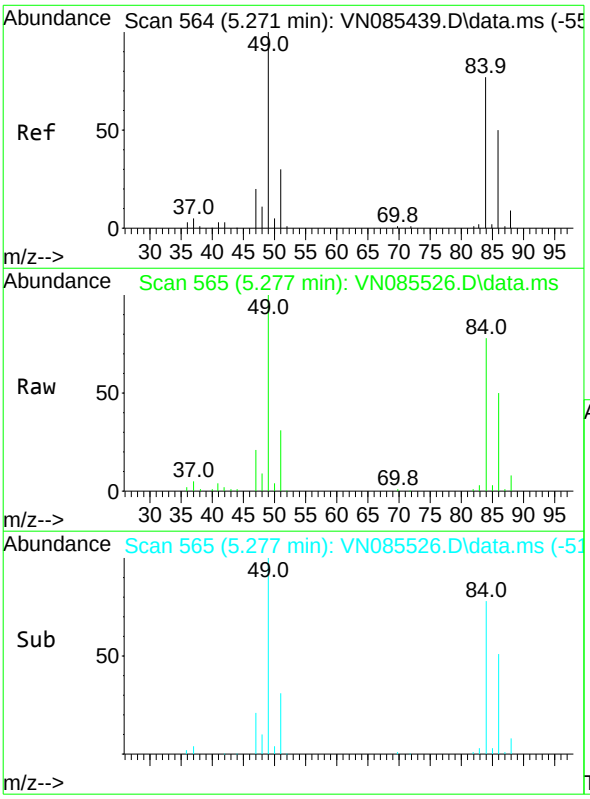
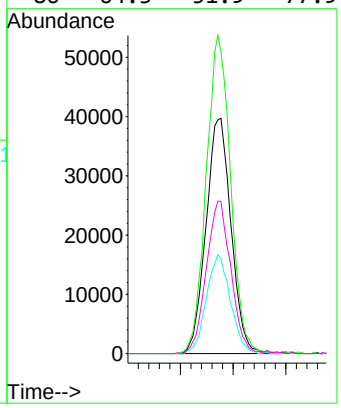


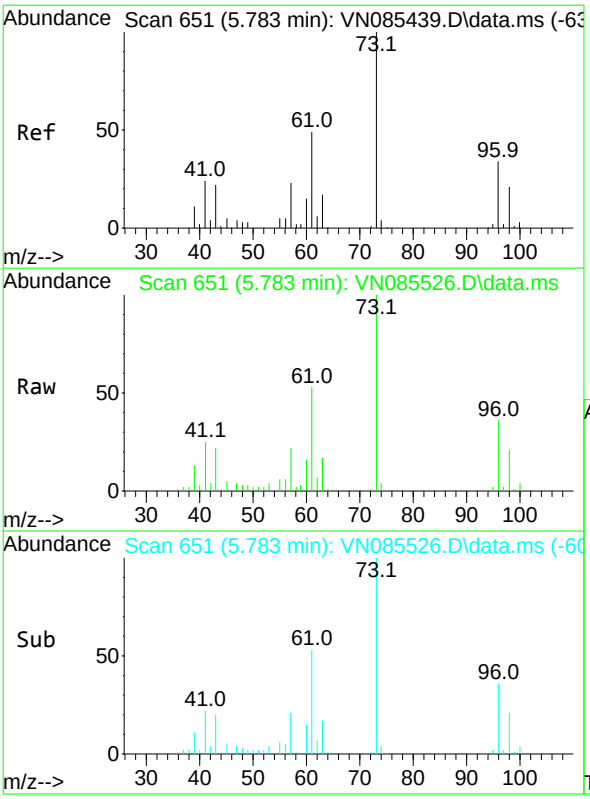




#20
Methylene Chloride
Concen: 49.931 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 84 Resp: 131284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 128.3 | 104.1 | 156.1 |
| 51 | 40.2 | 31.0 | 46.4 |
| 86 | 64.3 | 51.9 | 77.9 |






#21
trans-1,2-Dichloroethene
Concen: 49.692 ug/l
RT: 5.783 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 96 Resp: 116065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 148.4 | 115.7 | 173.5 |
| 98 | 59.7 | 49.8 | 74.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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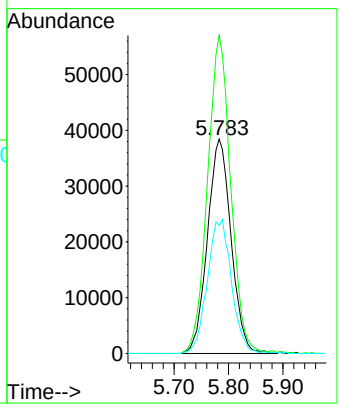
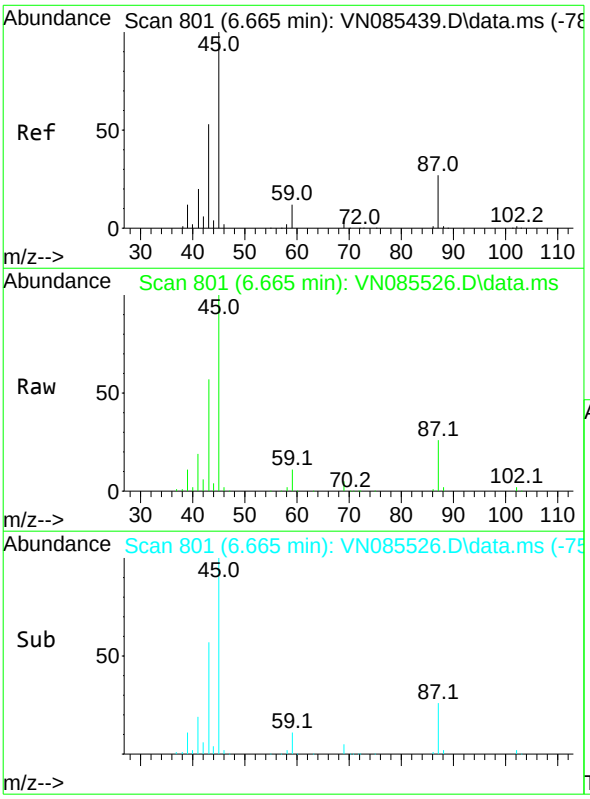
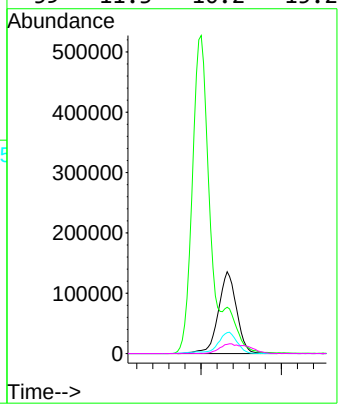


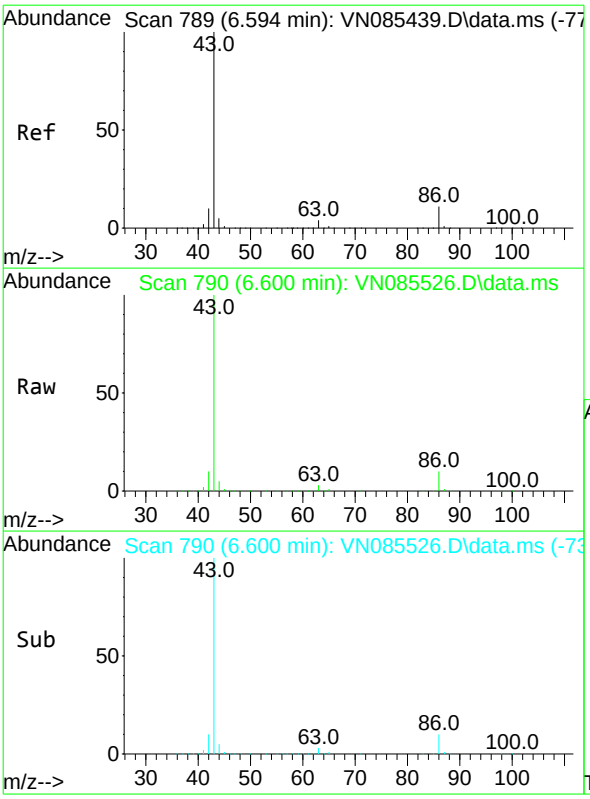




#22
Diisopropyl ether
Concen: 54.237 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 45 Resp: 426926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 55.8 | 45.0 | 67.6 |
| 87 | 25.6 | 21.8 | 32.8 |
| 59 | 11.3 | 10.2 | 15.2 |






#23
Vinyl Acetate
Concen: 276.027 ug/l
RT: 6.600 min Scan# 79
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 43 Resp: 1520538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.1 | 8.4 | 12.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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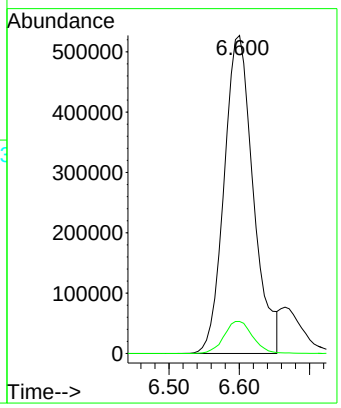
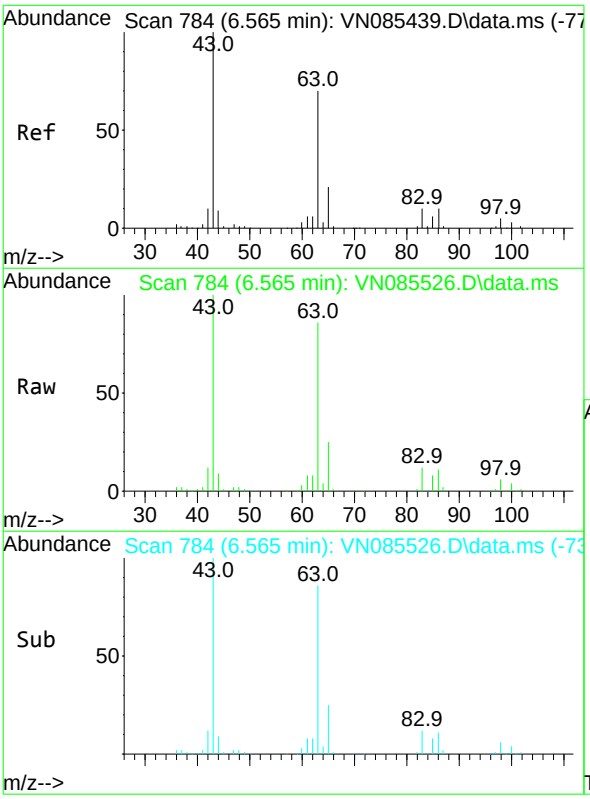
Supervised By :Semsettin Yesilyurt 01/29/2025

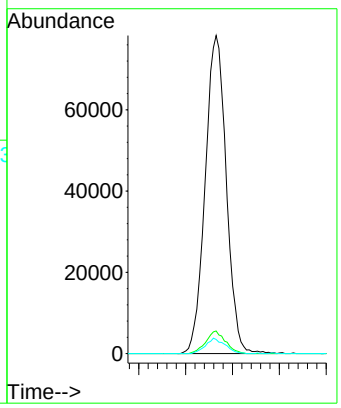


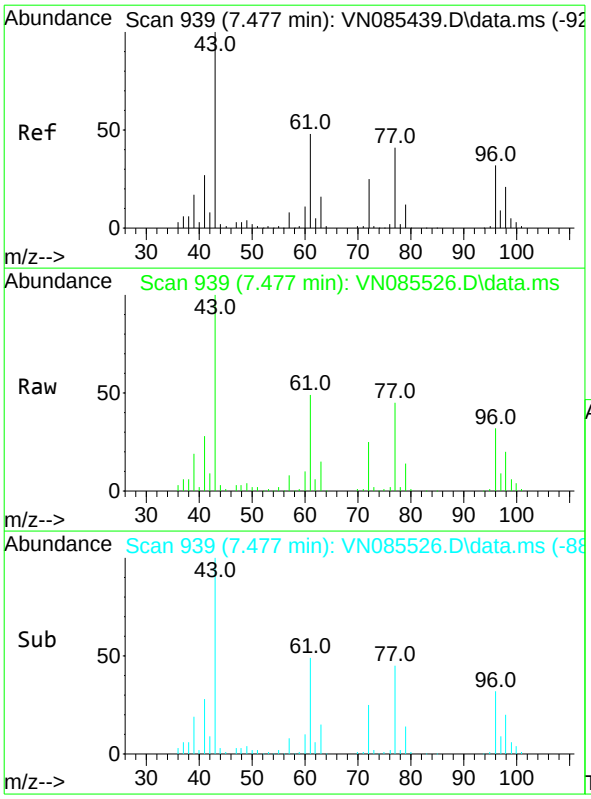




#24
1,1-Dichloroethane
Concen: 51.014 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 63 Resp: 244849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.1 | 3.3 | 9.8 |
| 100 | 4.4 | 2.0 | 6.0 |






#25
2-Butanone
Concen: 260.223 ug/l
RT: 7.477 min Scan# 93
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 43 Resp: 406723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.0 | 20.2 | 30.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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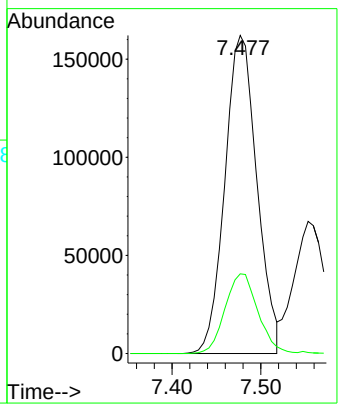
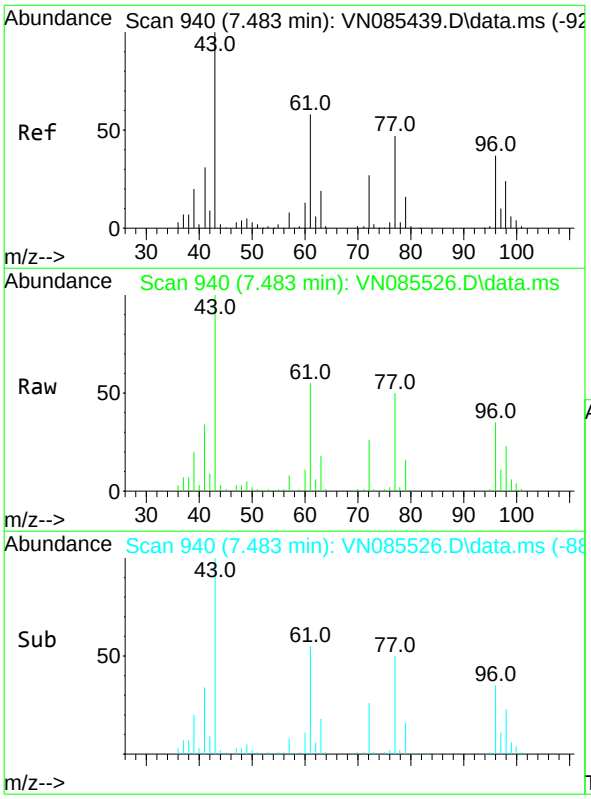
Supervised By :Semsettin Yesilyurt 01/29/2025

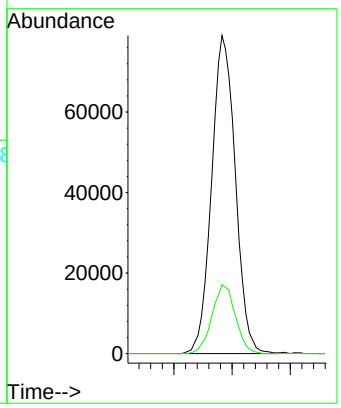


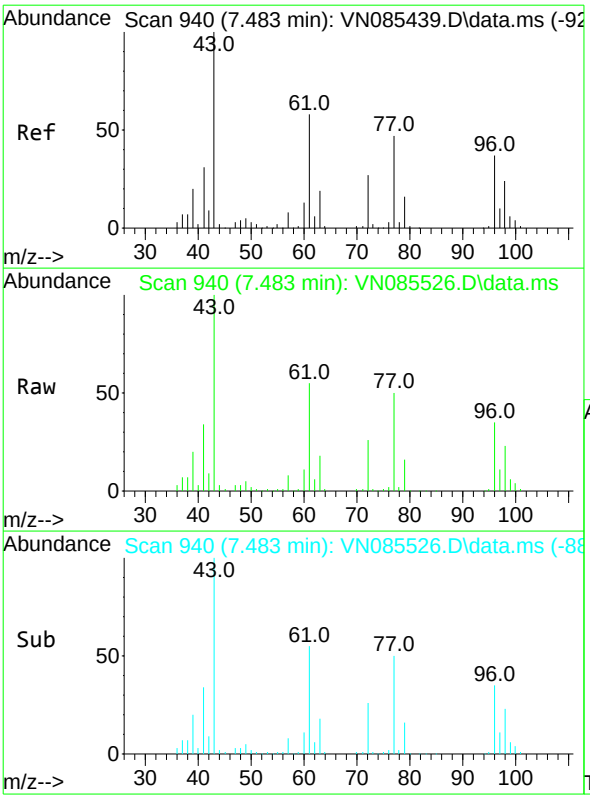




#26
2,2-Dichloropropane
Concen: 57.640 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 77 Resp: 223673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.3 | 10.7 | 32.1 |






#27
cis-1,2-Dichloroethene
Concen: 51.799 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 96 Resp: 142501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 157.2 | 0.0 | 311.8 |
| 98 | 64.9 | 0.0 | 126.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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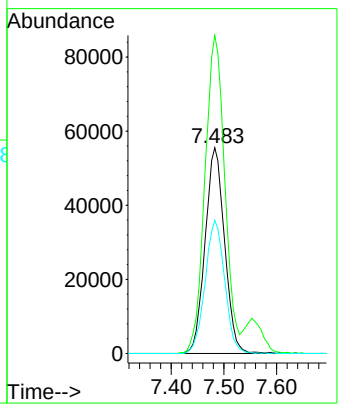
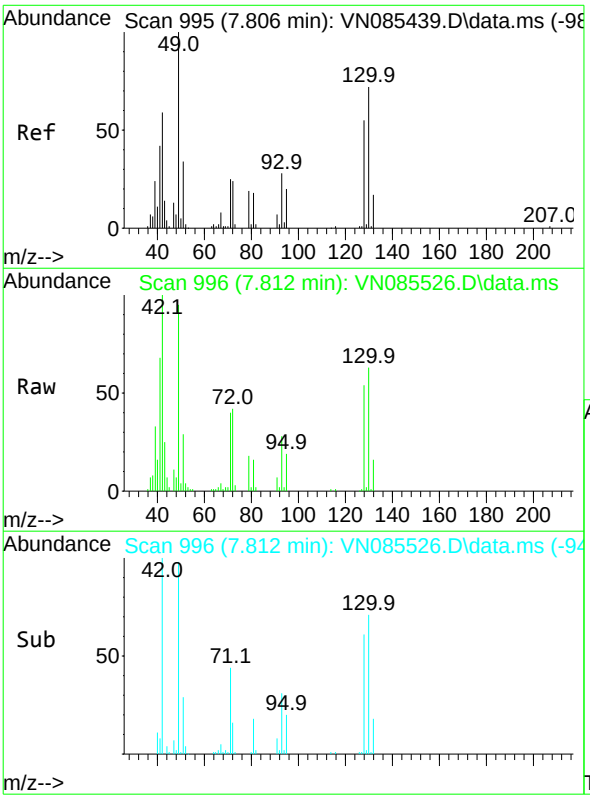
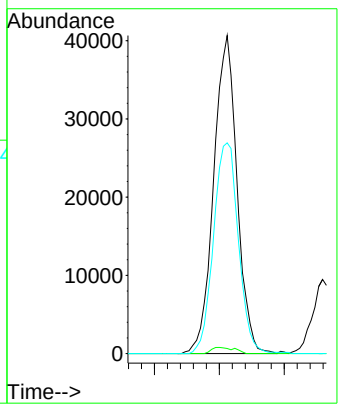


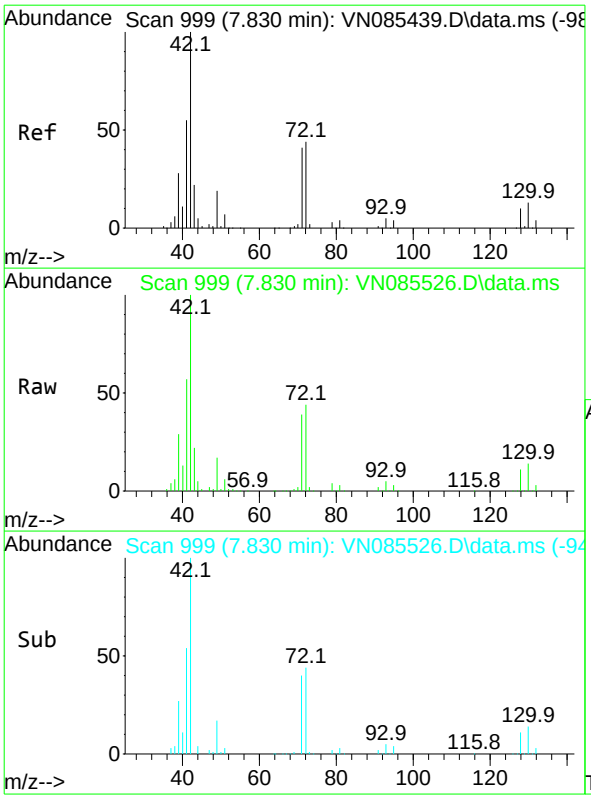




#28
Bromochloromethane
Concen: 45.505 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 49 Resp: 101613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 4.4 |
| 130 | 70.7 | 55.0 | 82.4 |






#29
Tetrahydrofuran
Concen: 274.712 ug/l
RT: 7.830 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 42 Resp: 272222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 43.0 | 34.2 | 51.2 |
| 71 | 40.6 | 32.5 | 48.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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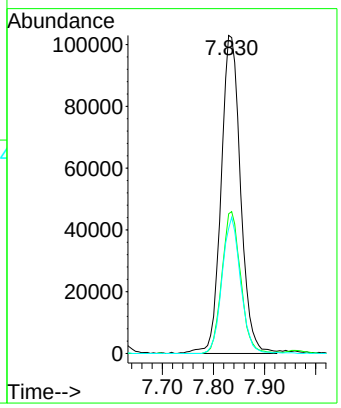
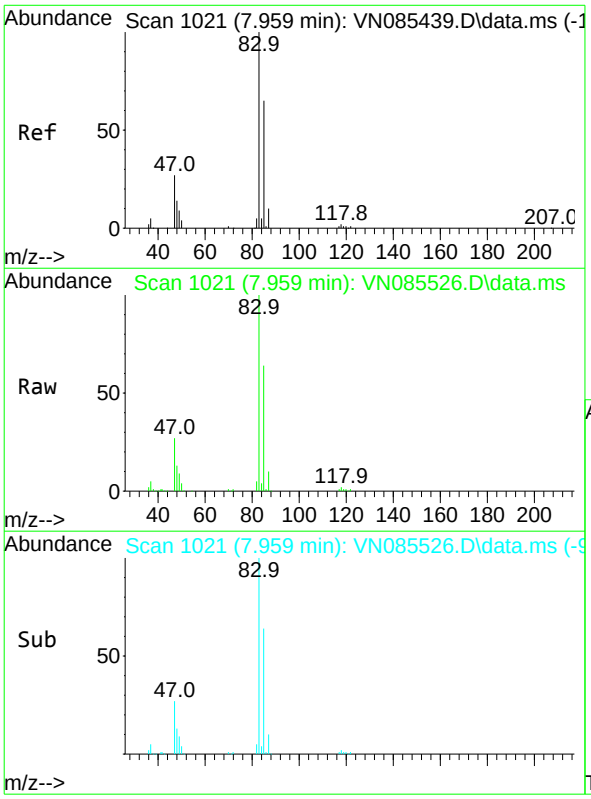
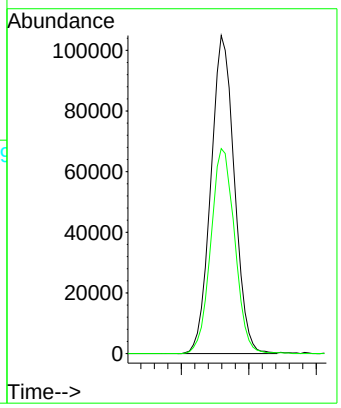


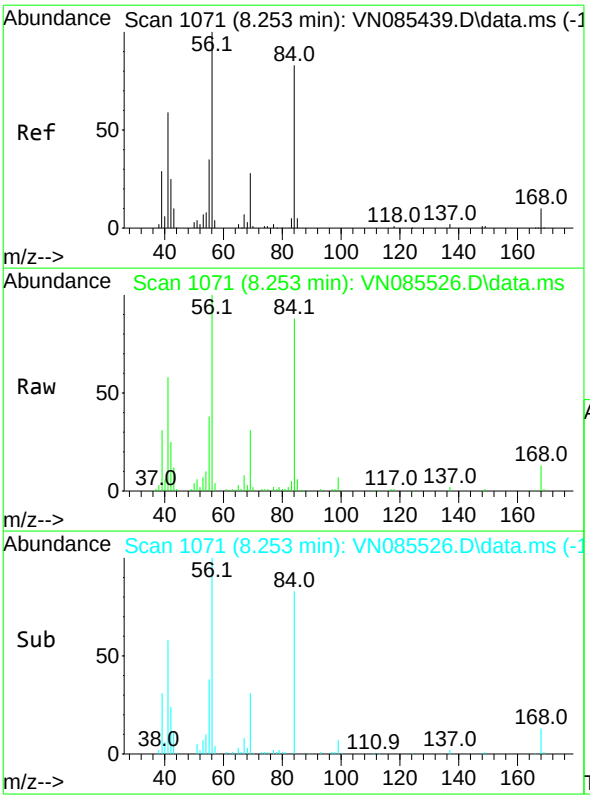




#30
Chloroform
Concen: 51.246 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 83 Resp: 254209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 51.8 | 77.6 |






#31
Cyclohexane
Concen: 45.451 ug/l
RT: 8.253 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 189607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 30.2 | 22.2 | 33.4 |
| 84 | 85.8 | 66.4 | 99.6 |

**Manual Integrations**
**APPROVED**

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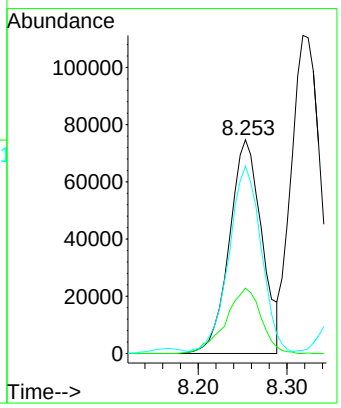
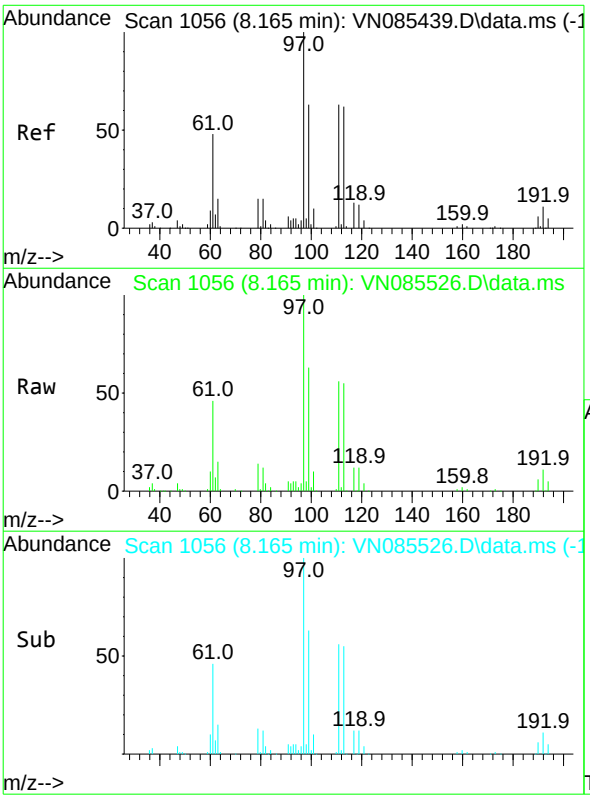
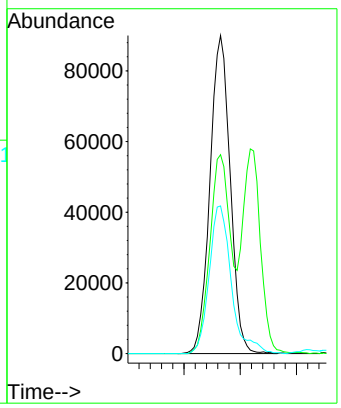


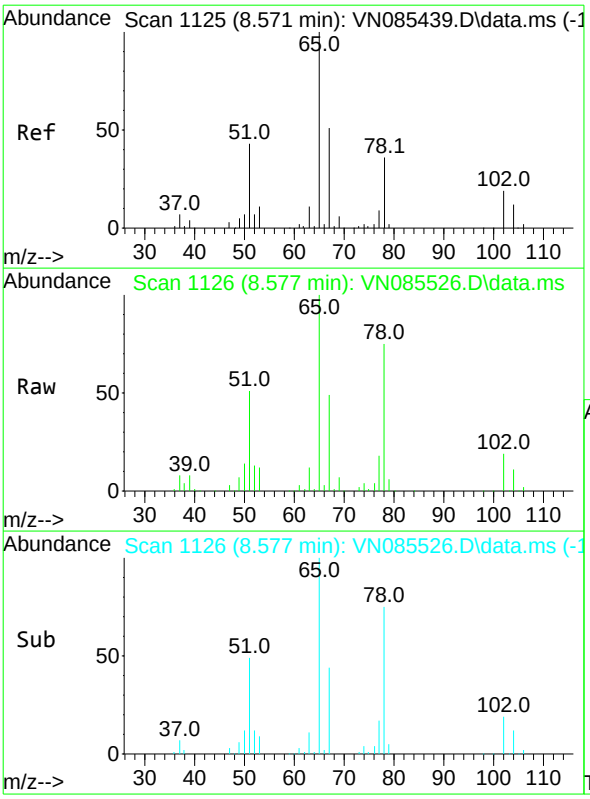




#32
1,1,1-Trichloroethane
Concen: 51.727 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 97 Resp: 225078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.9 | 49.8 | 74.6 |
| 61 | 50.9 | 41.4 | 62.2 |






#33
1,2-Dichloroethane-d4
Concen: 48.164 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

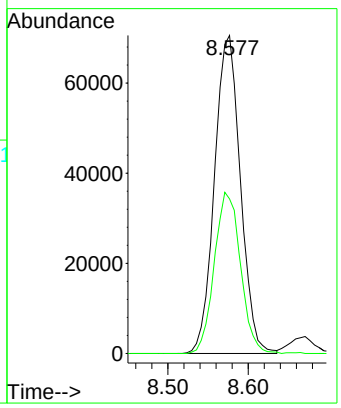
Tgt Ion: 65 Resp: 158323

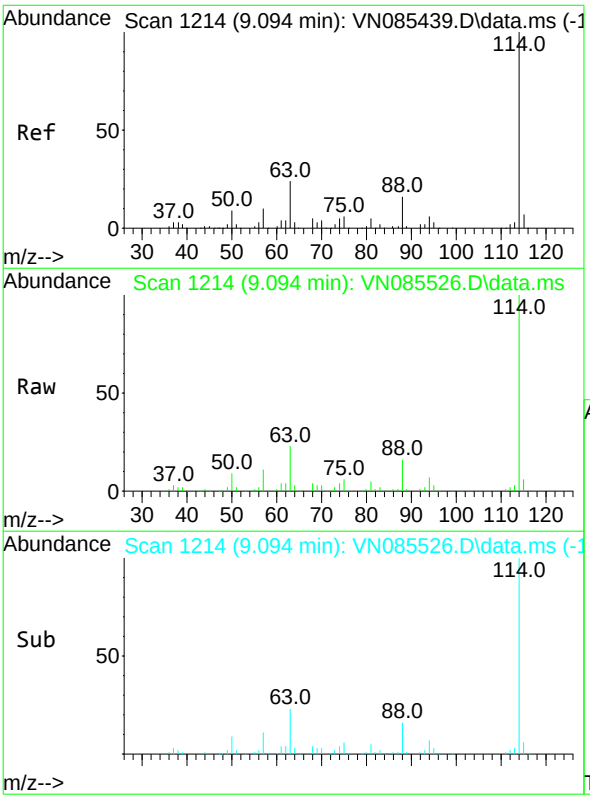
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.1 | 0.0 | 101.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

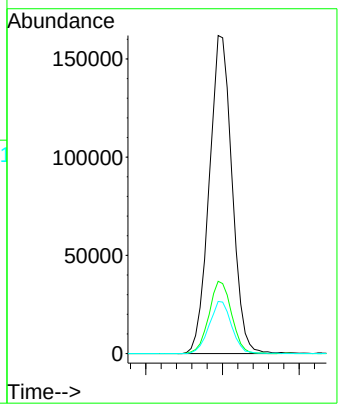


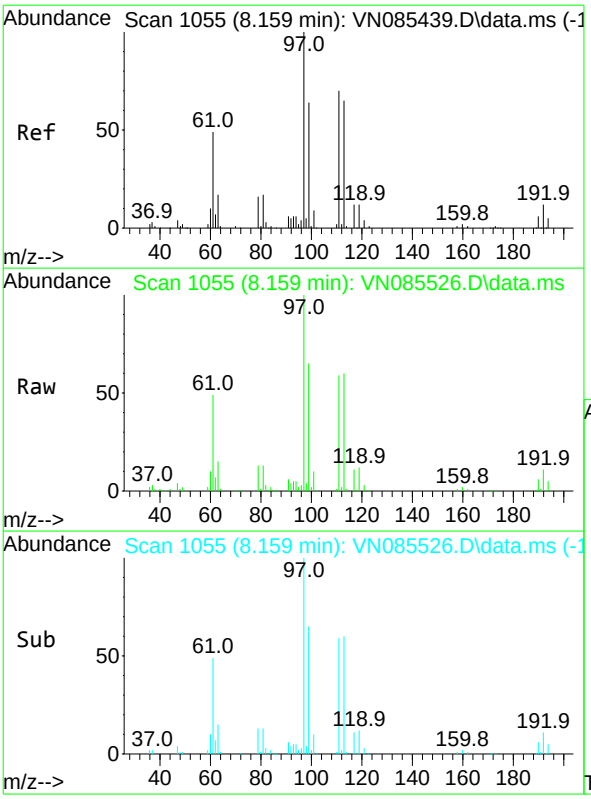




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:114 Resp: 333806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.7 | 0.0 | 47.6 |
| 88 | 16.4 | 0.0 | 32.6 |






#35
Dibromofluoromethane
Concen: 51.240 ug/l
RT: 8.159 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:113 Resp: 118662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 82.7 | 124.1 |
| 192 | 18.0 | 14.3 | 21.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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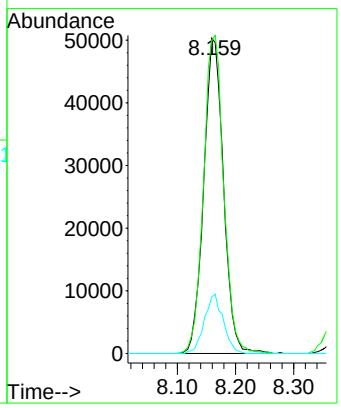
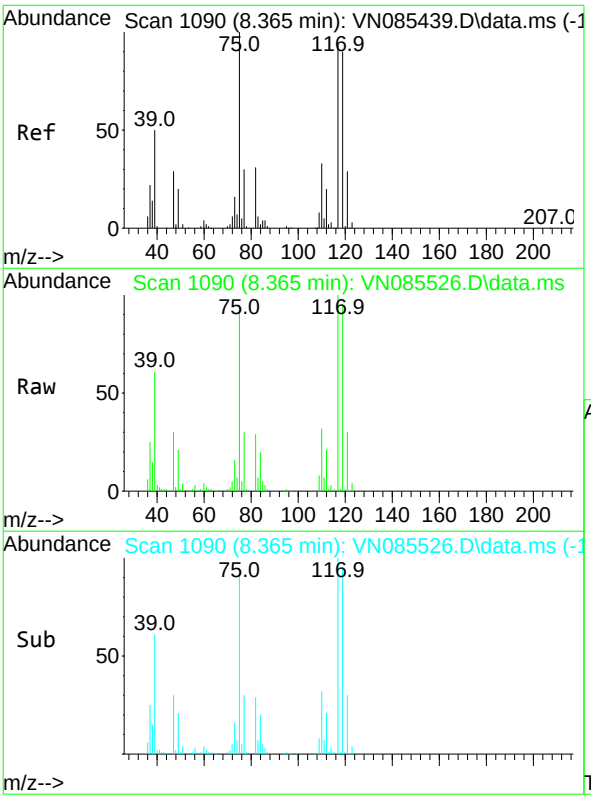
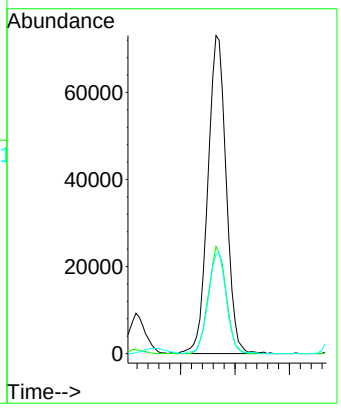


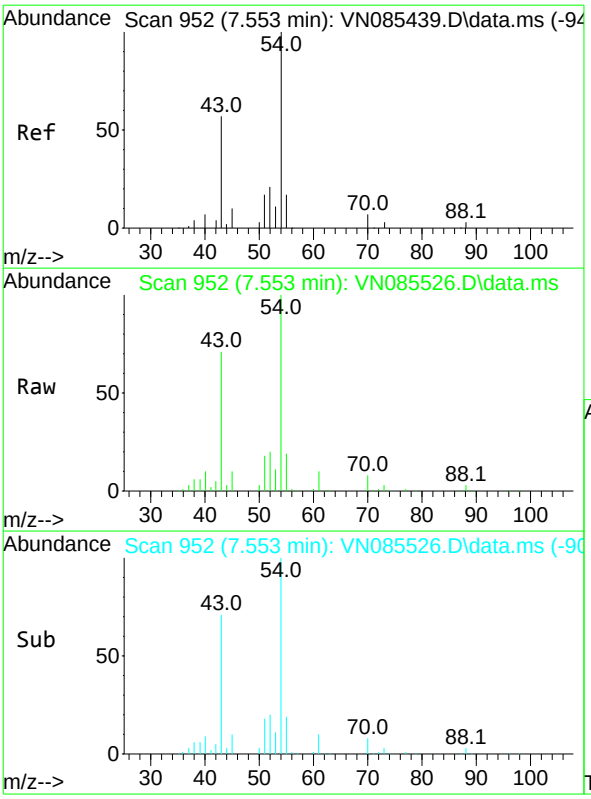




#36
1,1-Dichloropropene
Concen: 52.537 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 75 Resp: 170755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 32.6 | 16.5 | 49.5 |
| 77 | 31.6 | 24.4 | 36.6 |






#37
Ethyl Acetate
Concen: 52.923 ug/l
RT: 7.553 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 43 Resp: 173618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 11.8 | 10.9 | 16.3 |
| 70 | 10.0 | 7.5 | 11.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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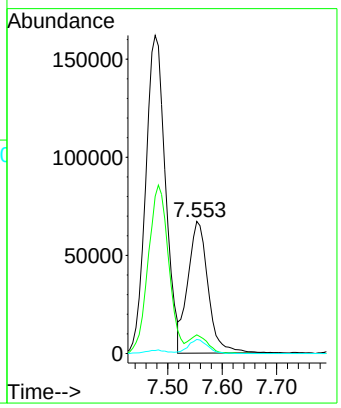
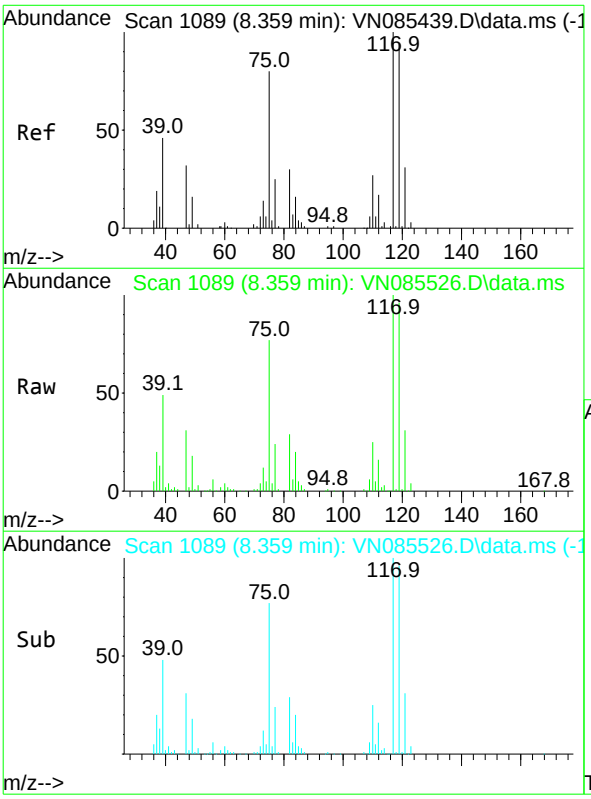
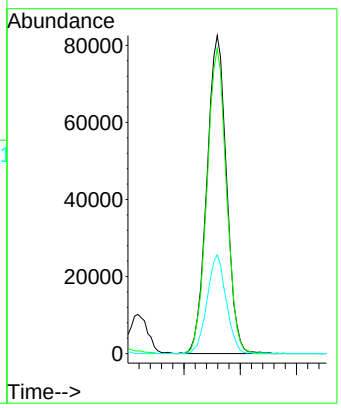


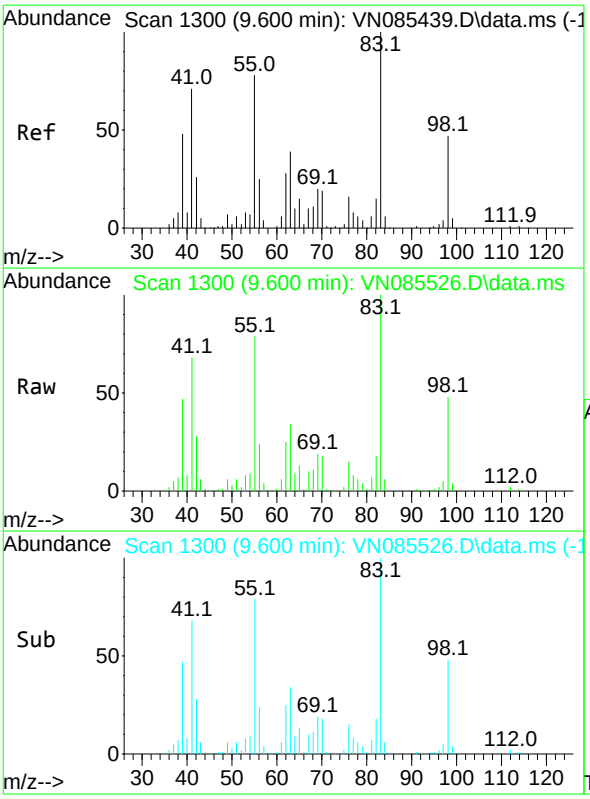




#38
Carbon Tetrachloride
Concen: 54.013 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:117 Resp: 200977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.0 | 75.4 | 113.2 |
| 121 | 31.1 | 24.6 | 37.0 |






#39
Methylcyclohexane
Concen: 56.039 ug/l
RT: 9.600 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 83 Resp: 171154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 79.2 | 62.6 | 94.0 |
| 98 | 47.9 | 37.7 | 56.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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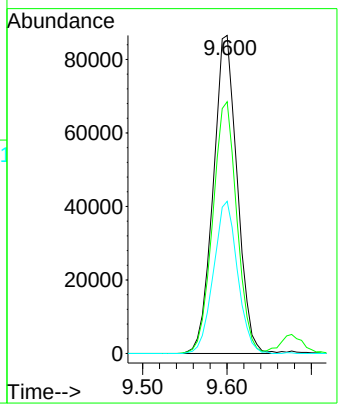
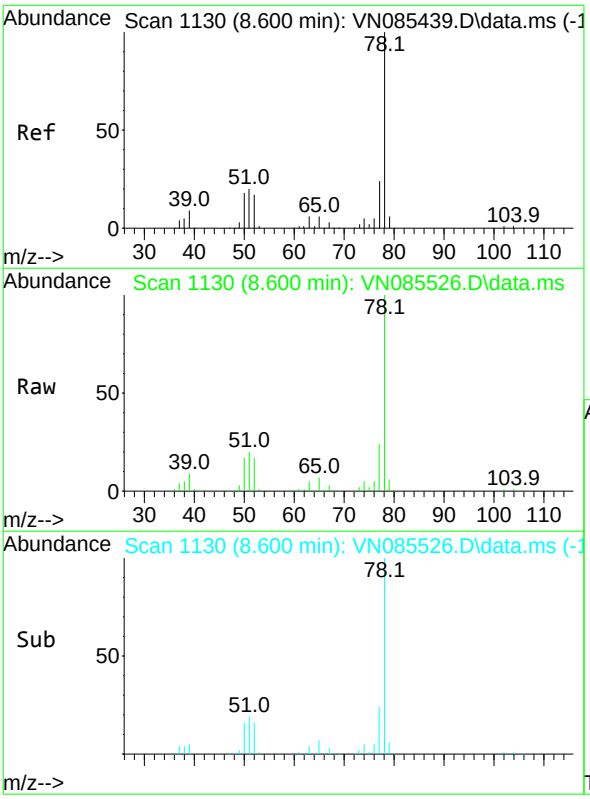
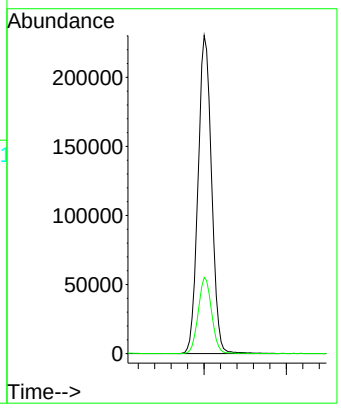


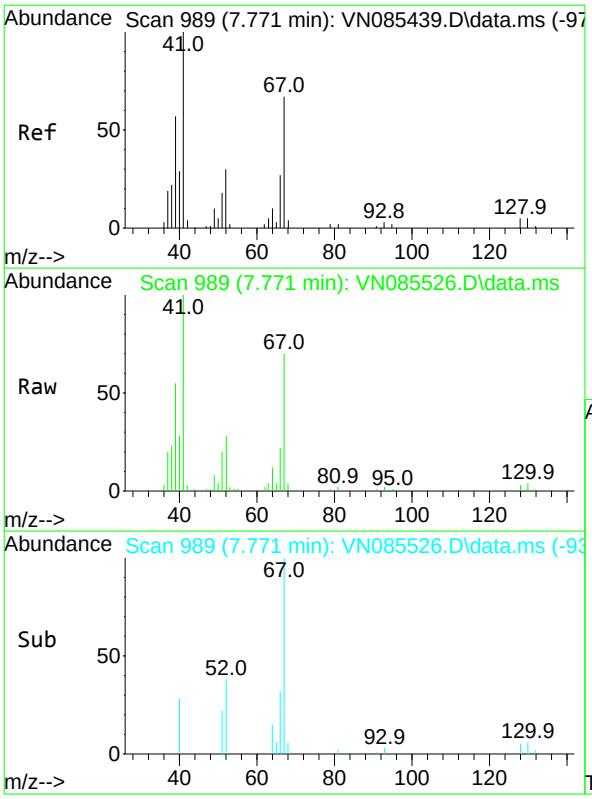




#40
Benzene
Concen: 53.828 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 78 Resp: 525669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 55.717 ug/l
RT: 7.771 min Scan# 98
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 41 Resp: 95095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 56.3 | 46.0 | 69.0 |
| 67 | 71.1 | 57.4 | 86.2 |
| 52 | 32.2 | 25.5 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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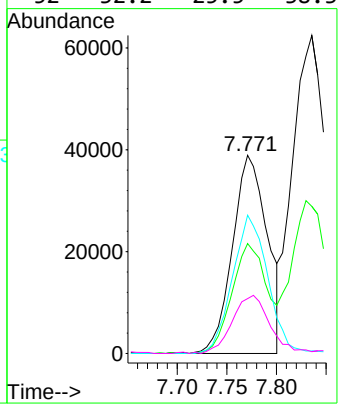
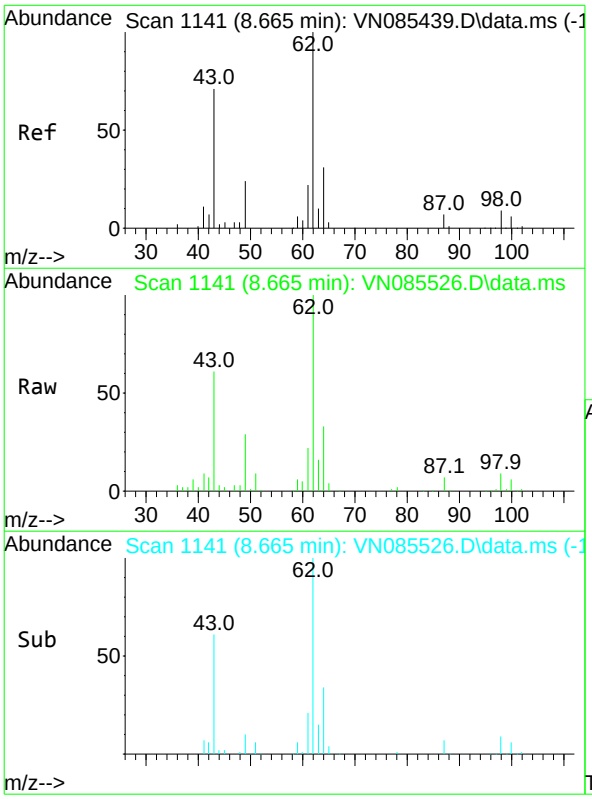
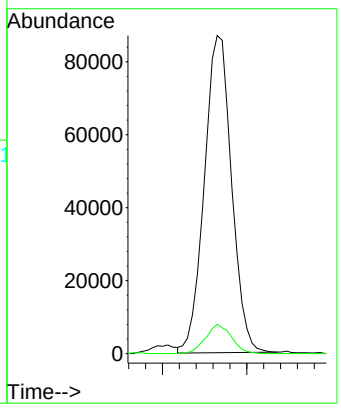


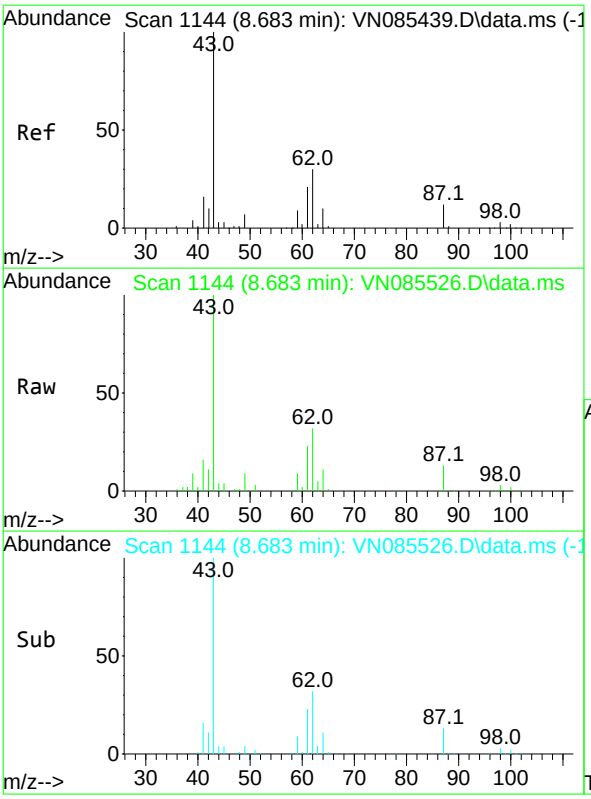




#42
1,2-Dichloroethane
Concen: 53.072 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 62 Resp: 195201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.8 | 0.0 | 17.0 |






#43
Isopropyl Acetate
Concen: 54.755 ug/l
RT: 8.683 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 43 Resp: 287826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 25.9 | 20.7 | 31.1 |
| 87 | 12.6 | 9.8 | 14.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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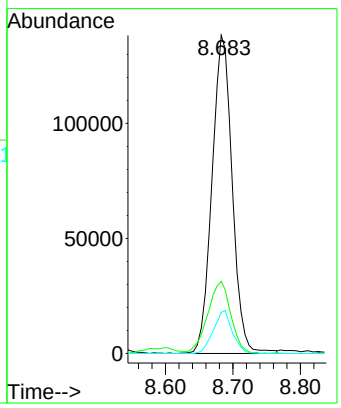
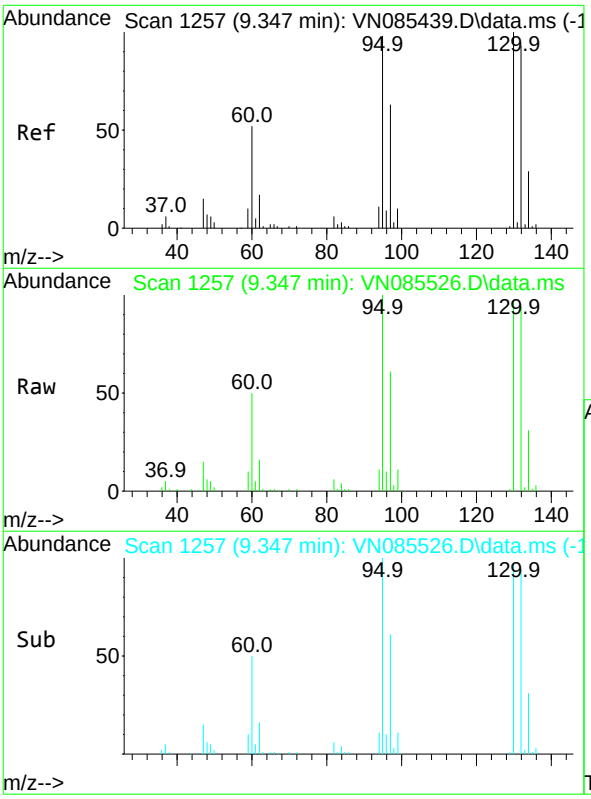
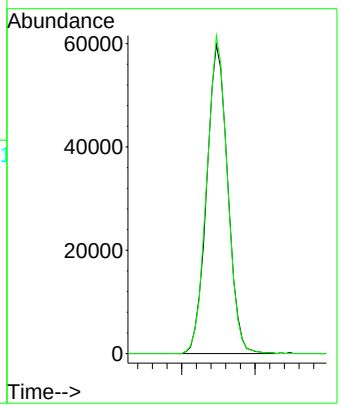


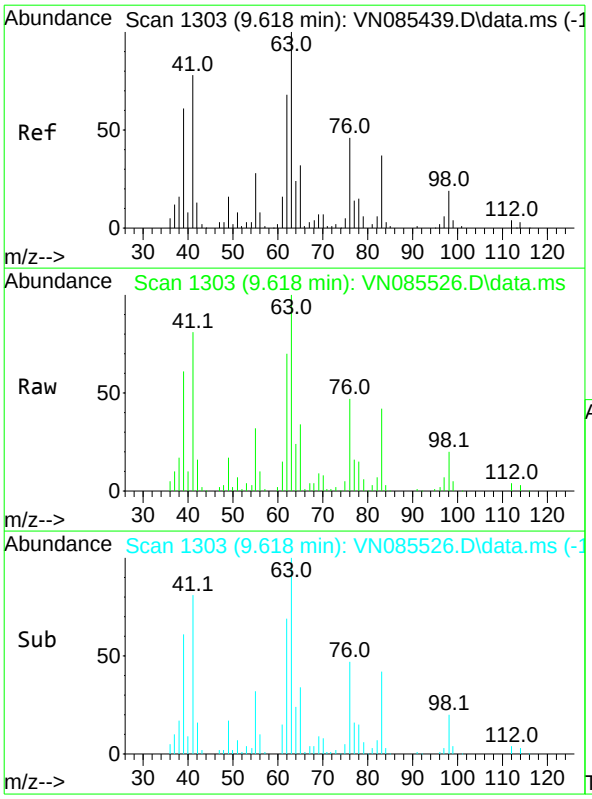




#44
Trichloroethene
Concen: 52.672 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:130 Resp: 119734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 103.0 | 0.0 | 195.8 |






#45
1,2-Dichloropropane
Concen: 54.447 ug/l
RT: 9.618 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 63 Resp: 135814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 33.9 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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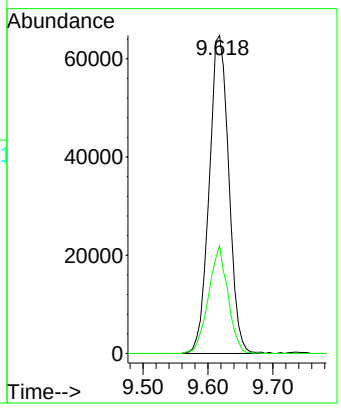
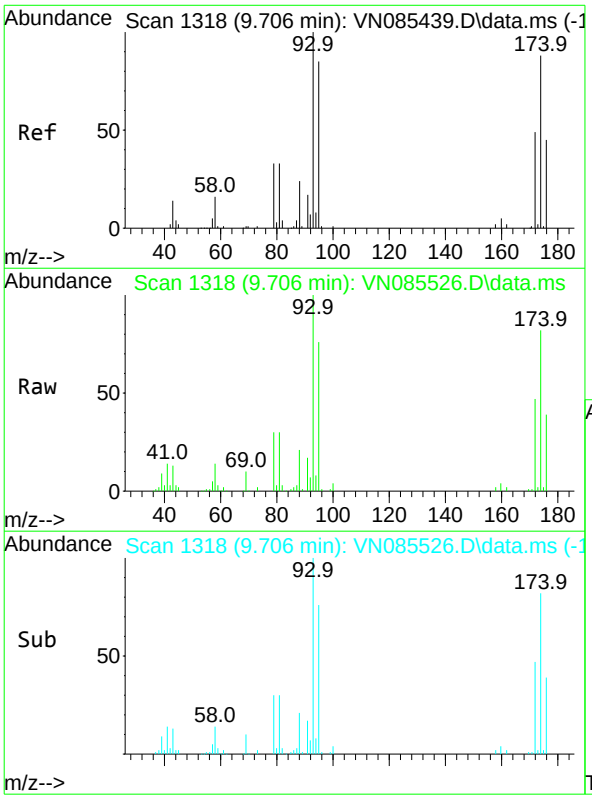
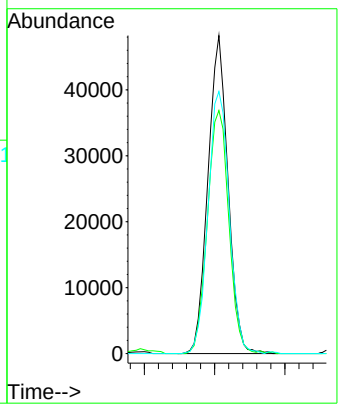


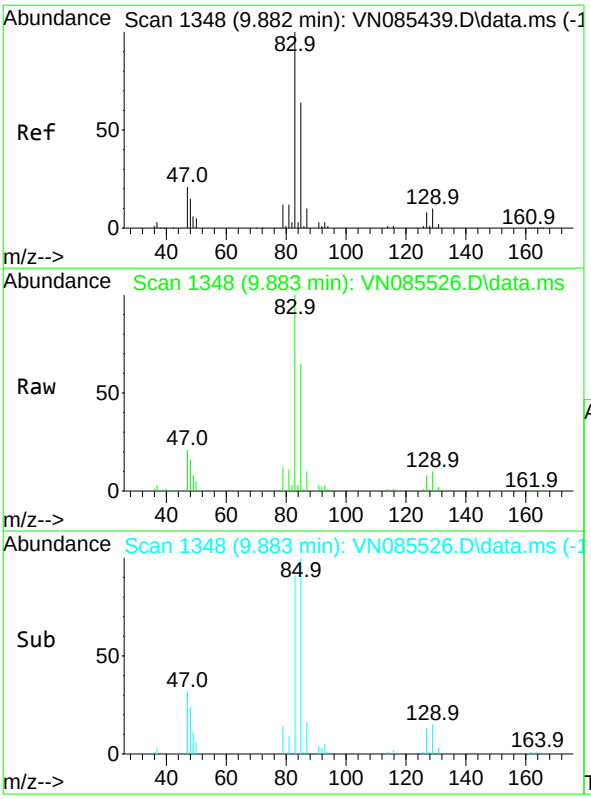




#46
Dibromomethane
Concen: 53.179 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 93 Resp: 95715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.2 | 64.7 | 97.1 |
| 174 | 87.0 | 69.0 | 103.4 |






#47
Bromodichloromethane
Concen: 55.774 ug/l
RT: 9.883 min Scan# 13
Delta R.T. 0.001 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 83 Resp: 204517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.1 | 51.2 | 76.8 |
| 127 | 8.4 | 6.5 | 9.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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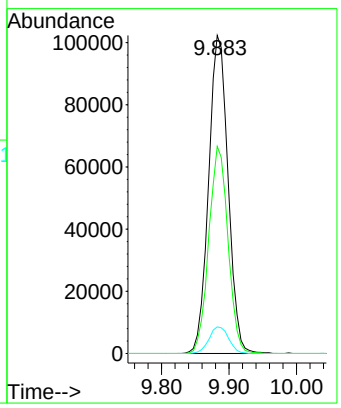
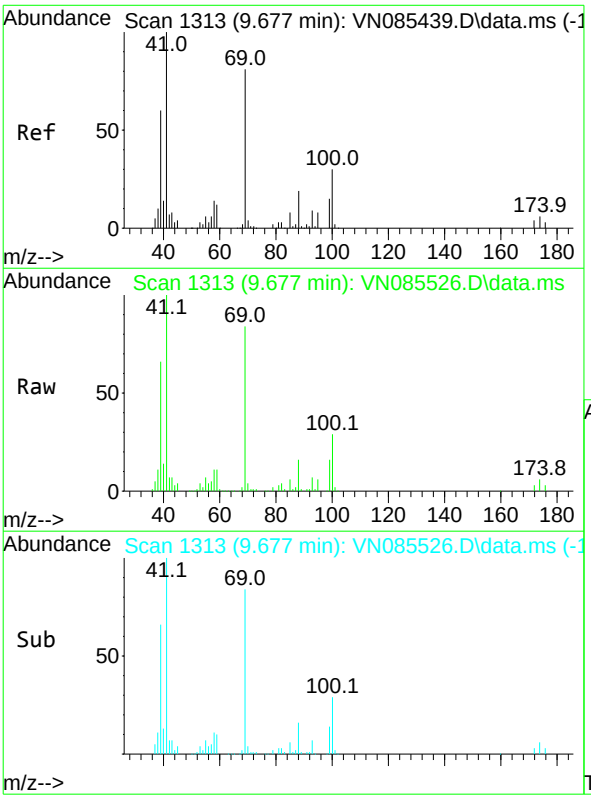
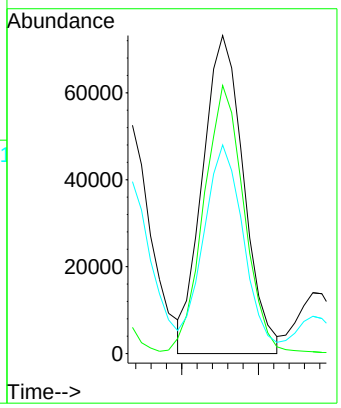


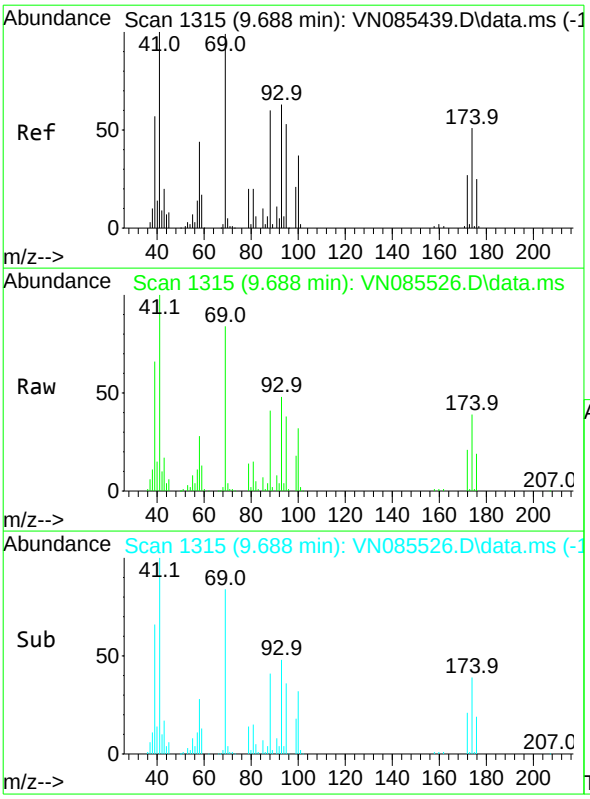




#48
Methyl methacrylate
Concen: 57.693 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 41 Resp: 136479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 83.2 | 64.7 | 97.1 |
| 39 | 64.1 | 49.0 | 73.6 |






#49
1,4-Dioxane
Concen: 1019.345 ug/l
RT: 9.688 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 88 Resp: 40607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.0 | 26.6 | 39.8 |
| 58 | 74.6 | 59.5 | 89.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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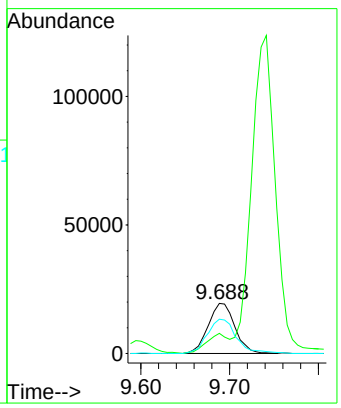
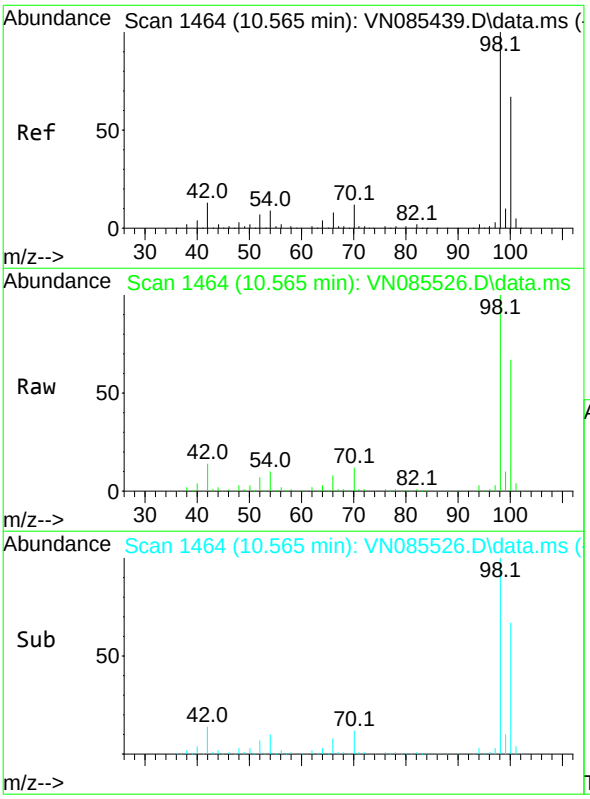
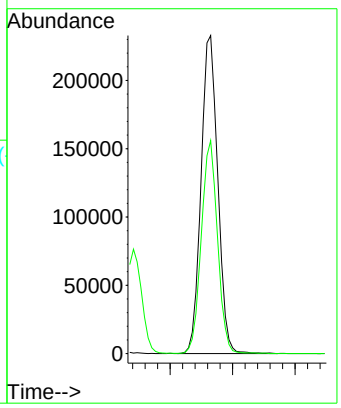


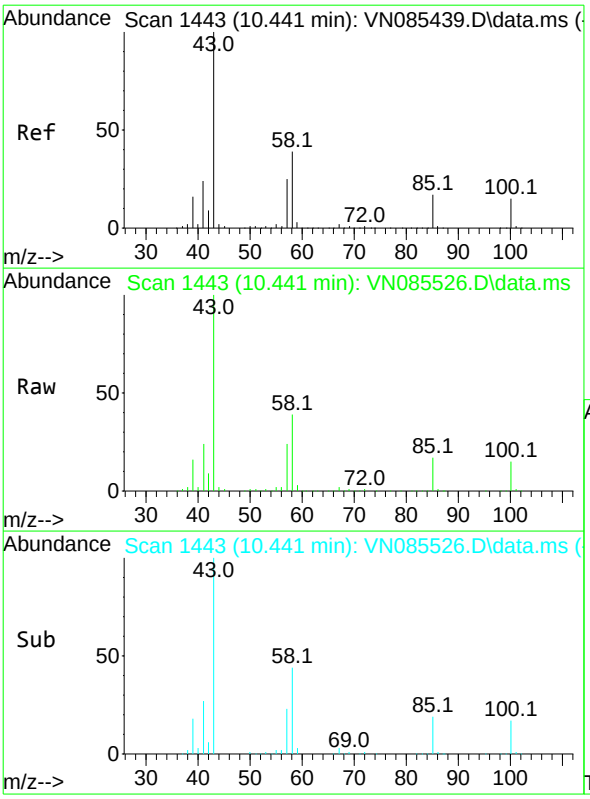




#50
Toluene-d8
Concen: 52.569 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 98 Resp: 432537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.2 | 78.4 |






#51
4-Methyl-2-Pentanone
Concen: 292.599 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 43 Resp: 892528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.1 | 30.5 | 45.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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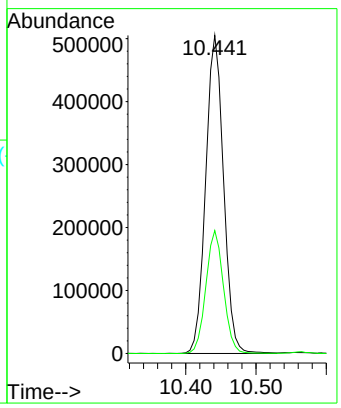
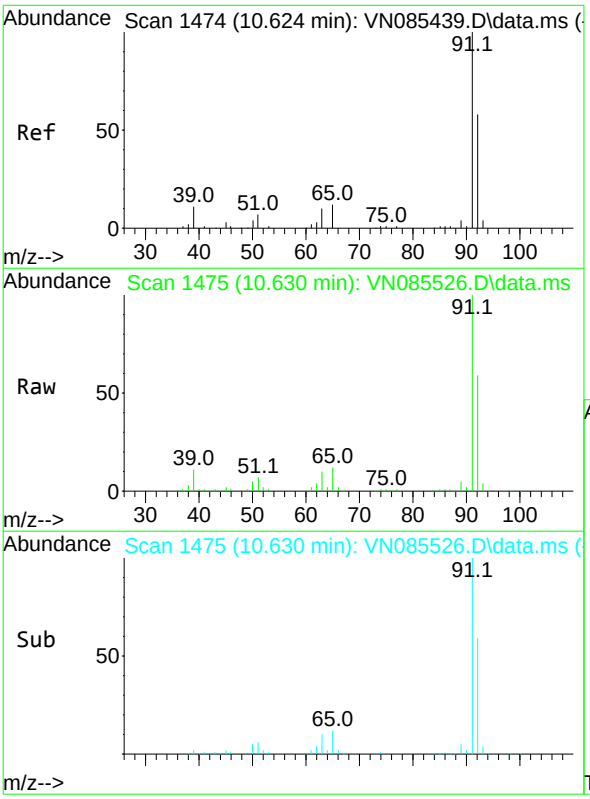
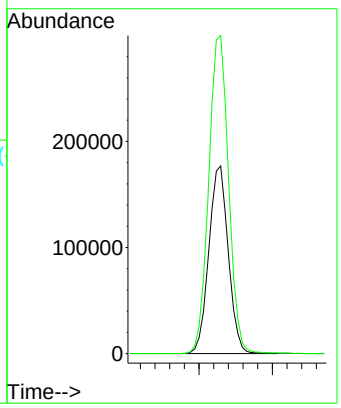


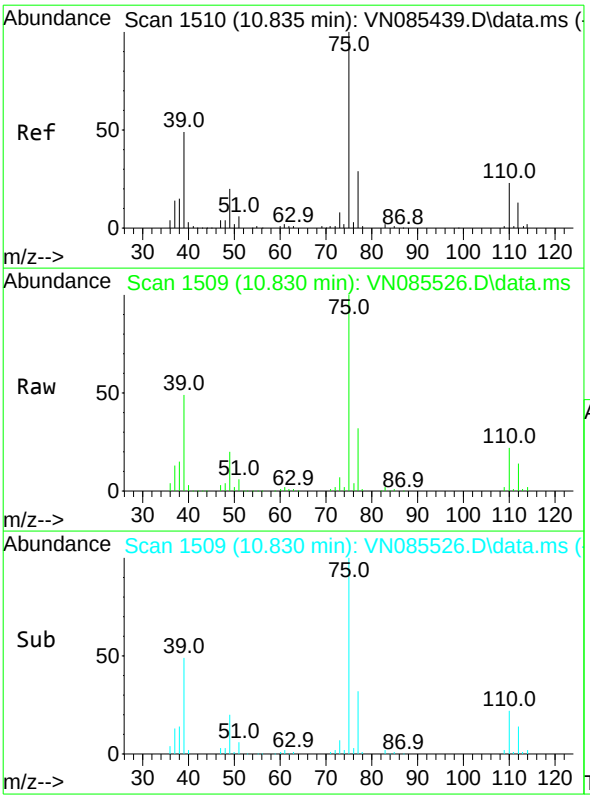




#52
Toluene
Concen: 57.499 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 92 Resp: 325356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.6 | 139.2 | 208.8 |






#53
t-1,3-Dichloropropene
Concen: 58.899 ug/l
RT: 10.830 min Scan# 15
Delta R.T. -0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

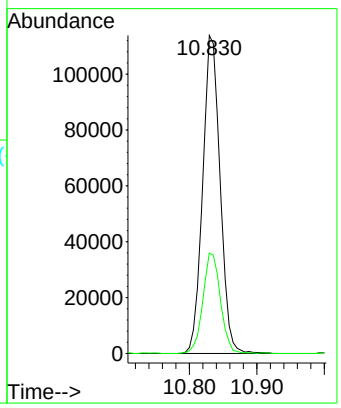
Tgt Ion: 75 Resp: 204105

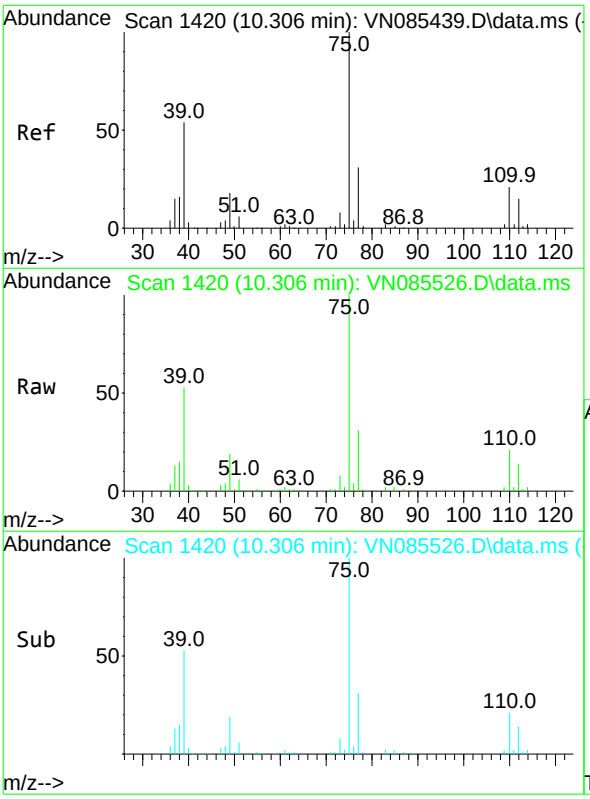
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.6 | 23.5 | 35.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

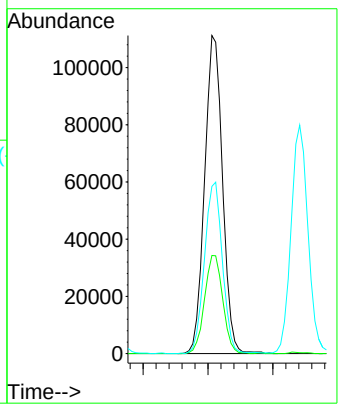


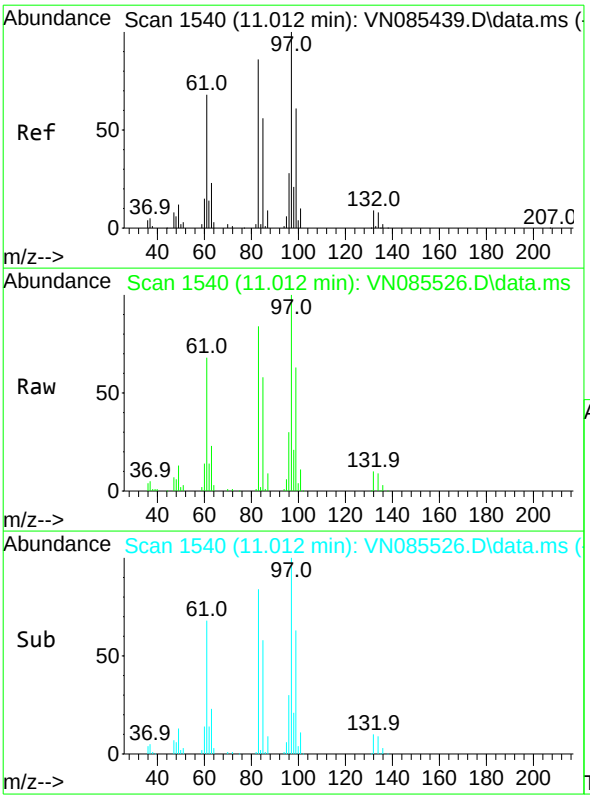




#54
cis-1,3-Dichloropropene
Concen: 57.610 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 75 Resp: 213245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.8 | 25.0 | 37.4 |
| 39 | 52.6 | 43.1 | 64.7 |






#55
1,1,2-Trichloroethane
Concen: 55.851 ug/l
RT: 11.012 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

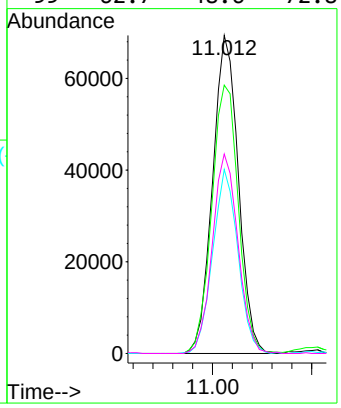
Tgt Ion: 97 Resp: 125068

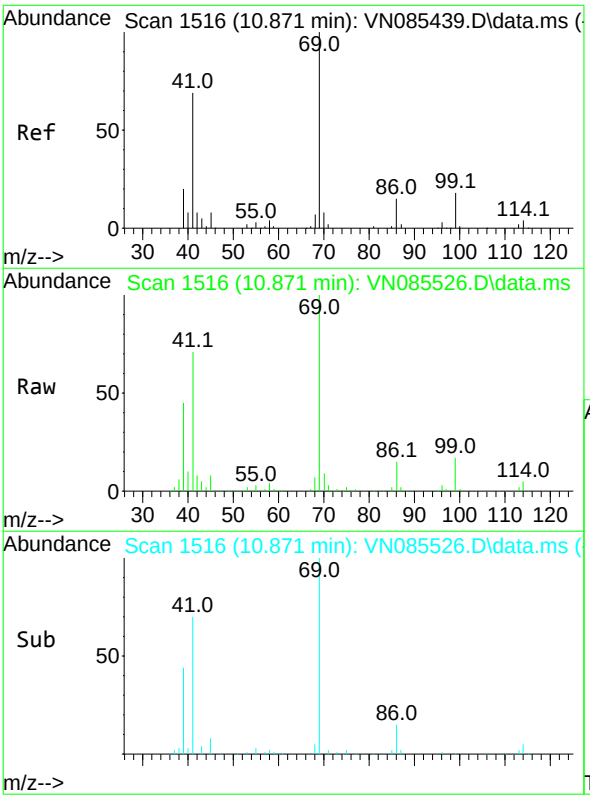
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.4 | 69.0 | 103.6 |
| 85 | 57.9 | 44.6 | 66.8 |
| 99 | 62.7 | 48.6 | 72.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

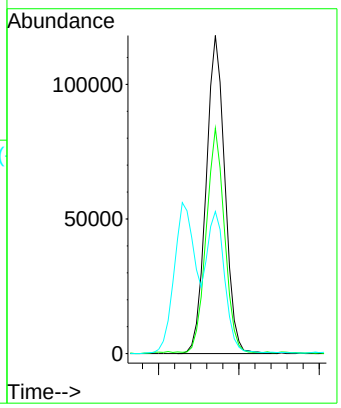


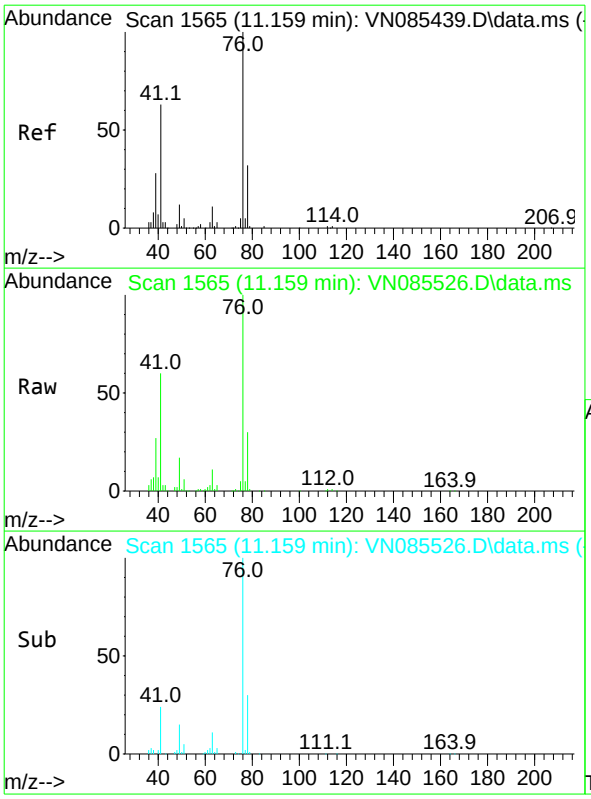




#56
Ethyl methacrylate
Concen: 50.844 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 69 Resp: 191924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 68.4 | 54.6 | 82.0 |
| 39 | 42.2 | 32.4 | 48.6 |






#57
1,3-Dichloropropane
Concen: 56.327 ug/l
RT: 11.159 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 76 Resp: 219323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.5 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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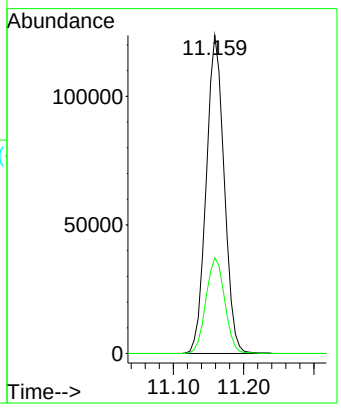
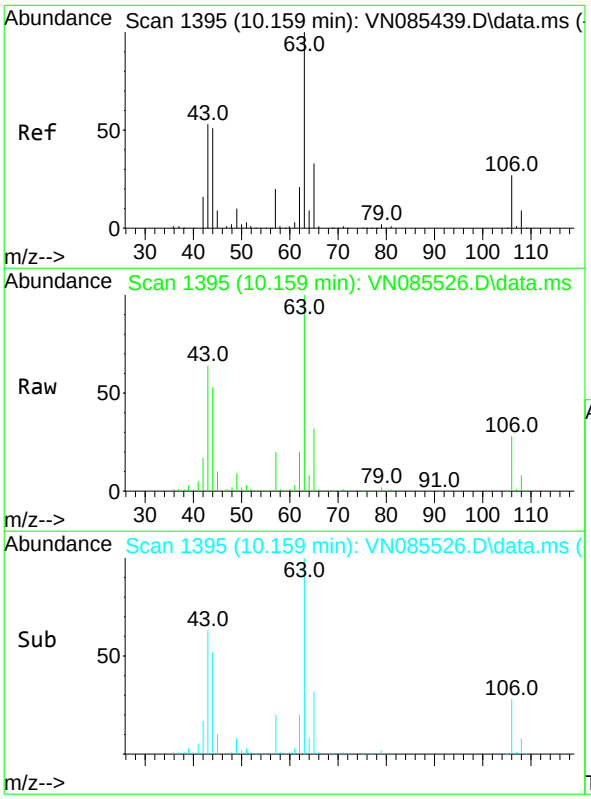
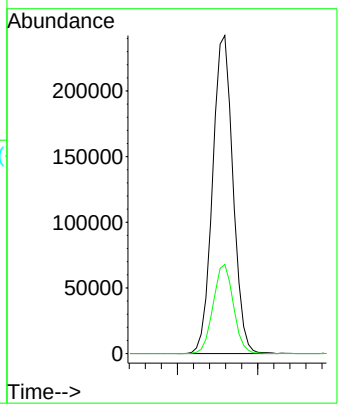


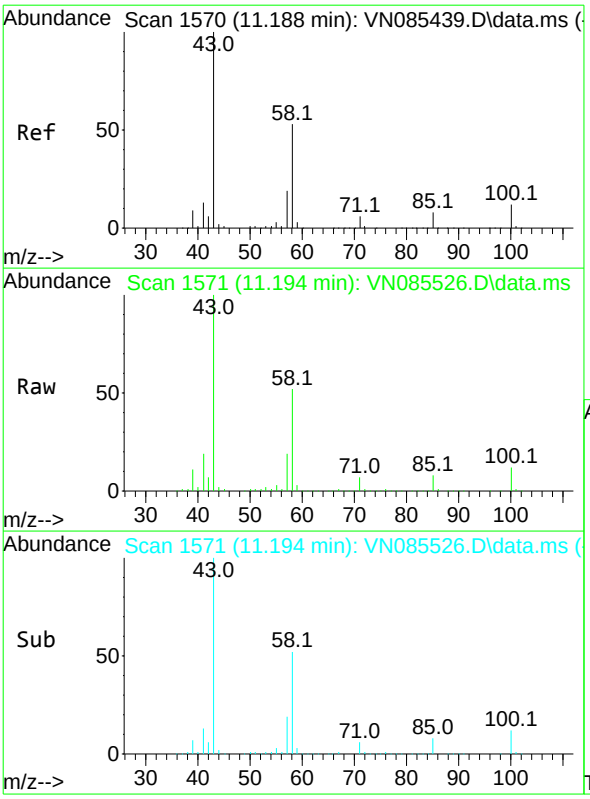




#58
2-Chloroethyl Vinyl ether
Concen: 300.465 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 63 Resp: 426978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.8 | 21.6 | 32.4 |






#59
2-Hexanone
Concen: 300.034 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 43 Resp: 643969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 51.8 | 26.2 | 78.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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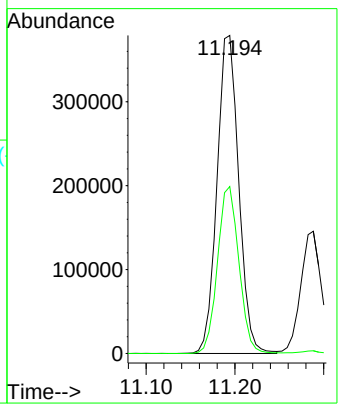
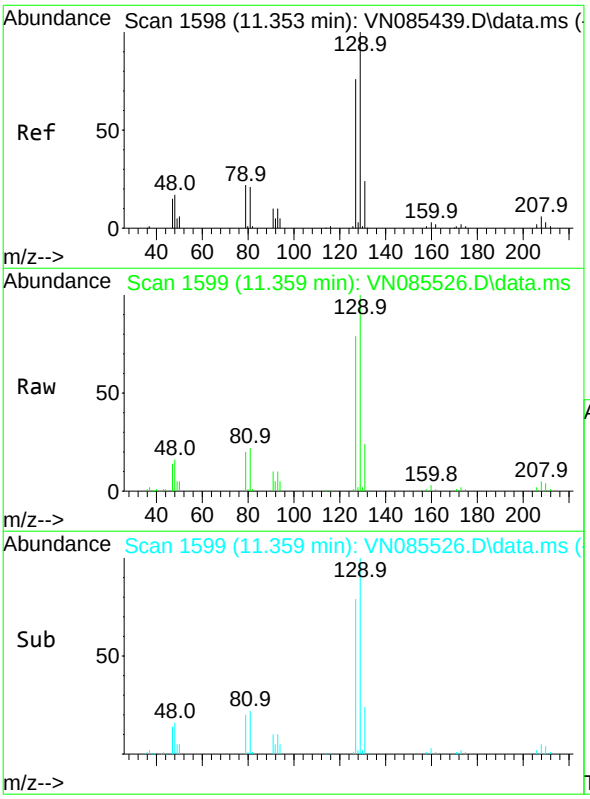
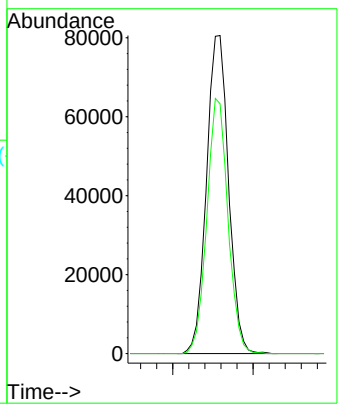


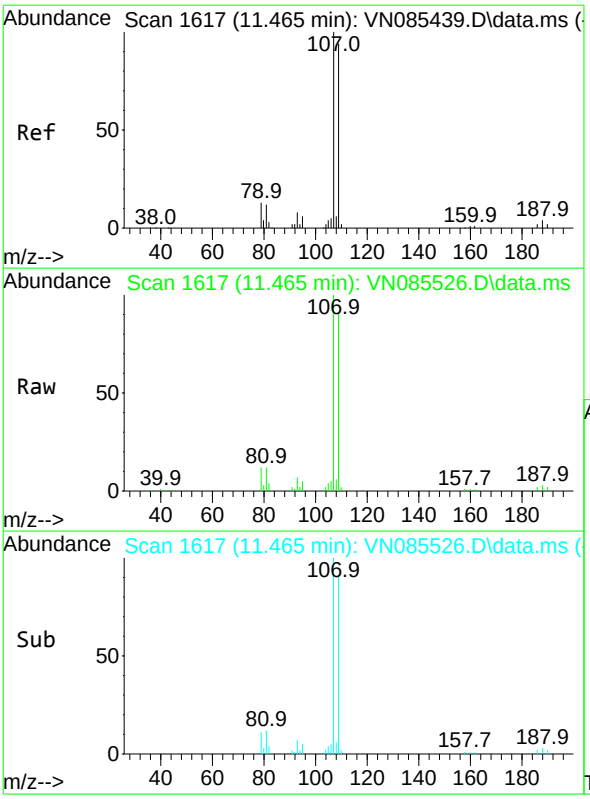




#60
Dibromochloromethane
Concen: 56.815 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:129 Resp: 153599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.7 | 38.6 | 115.8 |






#61
1,2-Dibromoethane
Concen: 54.776 ug/l
RT: 11.465 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:107 Resp: 122098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.4 | 75.9 | 113.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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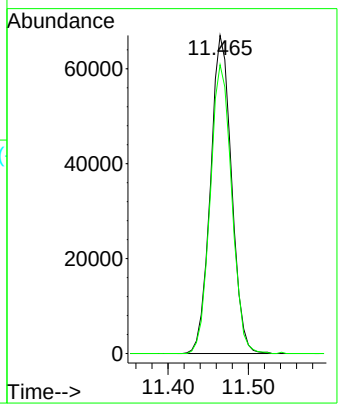
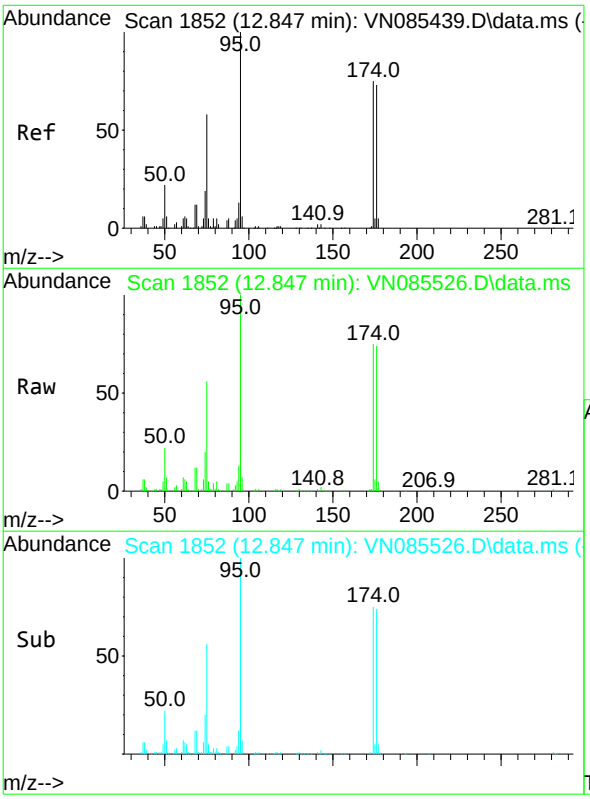
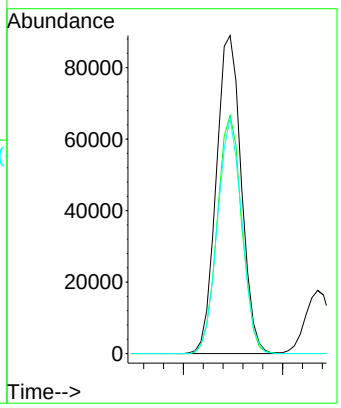


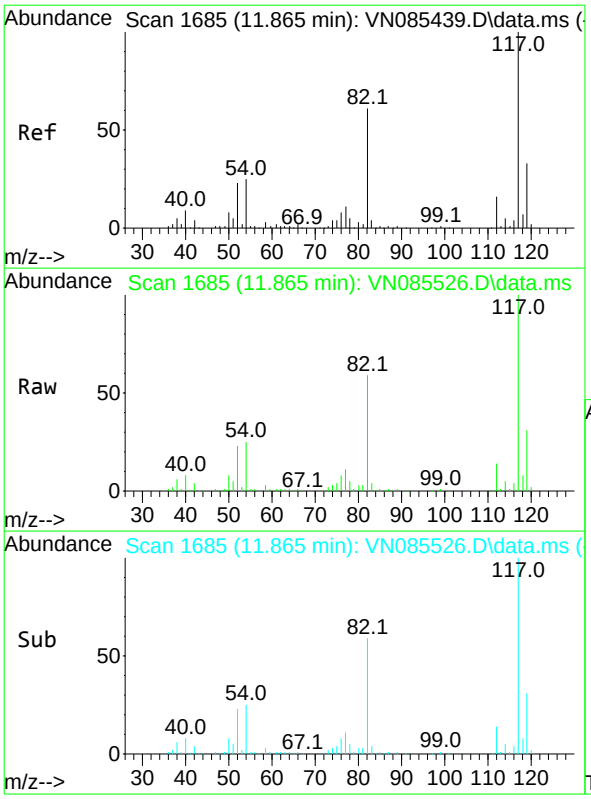




#62
4-Bromofluorobenzene
Concen: 55.379 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 95 Resp: 155870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 73.4 | 0.0 | 145.0 |
| 176 | 71.9 | 0.0 | 142.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:117 Resp: 302551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.5 | 48.6 | 72.8 |
| 119 | 31.2 | 26.6 | 39.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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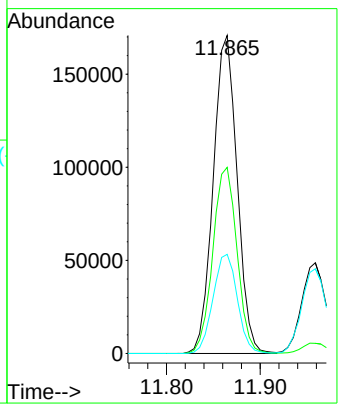
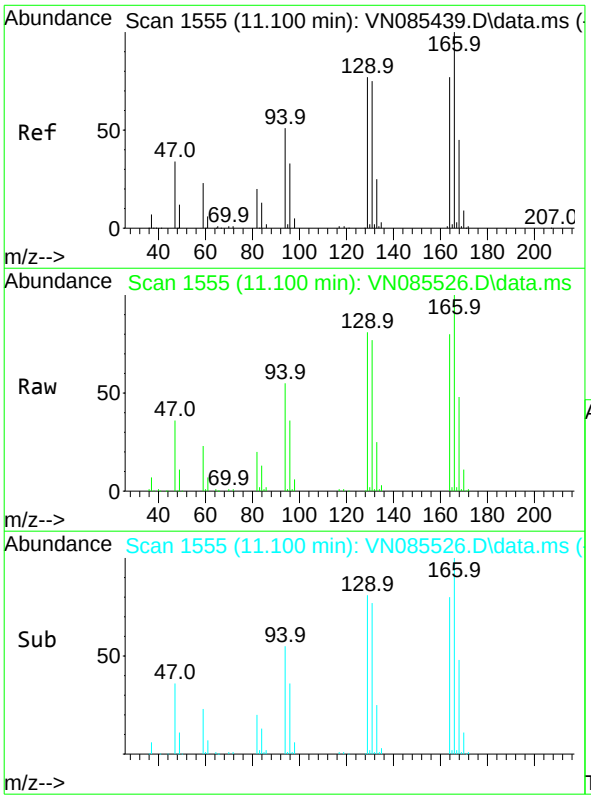
Supervised By :Semsettin Yesilyurt 01/29/2025

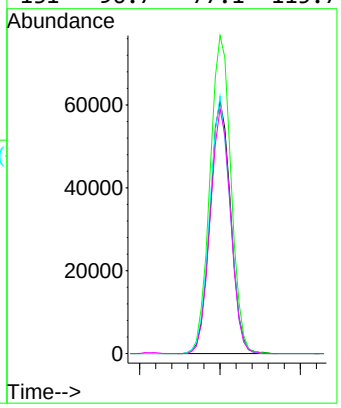


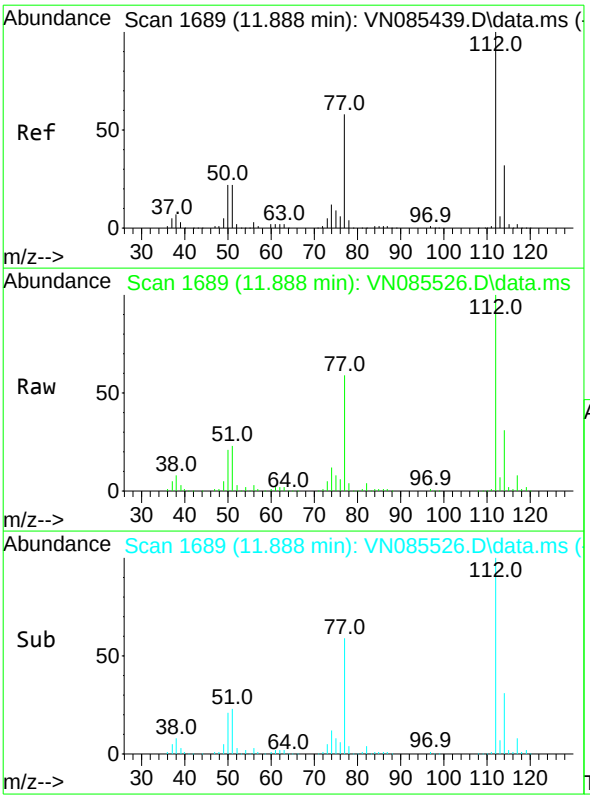




#64
Tetrachloroethene
Concen: 52.974 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:164 Resp: 109264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 125.7 | 103.4 | 155.2 |
| 129 | 101.8 | 79.2 | 118.8 |
| 131 | 96.7 | 77.1 | 115.7 |






#65
Chlorobenzene
Concen: 53.457 ug/l
RT: 11.888 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:112 Resp: 354308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.2 | 25.3 | 37.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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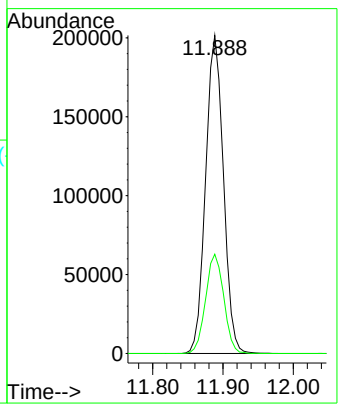
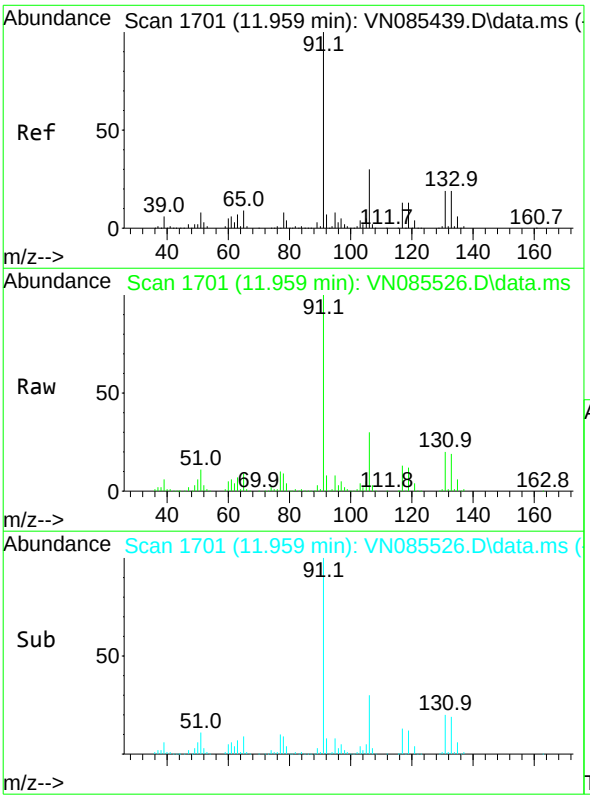
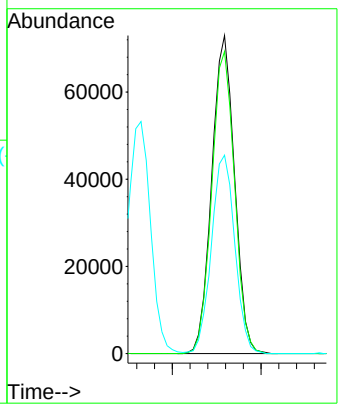


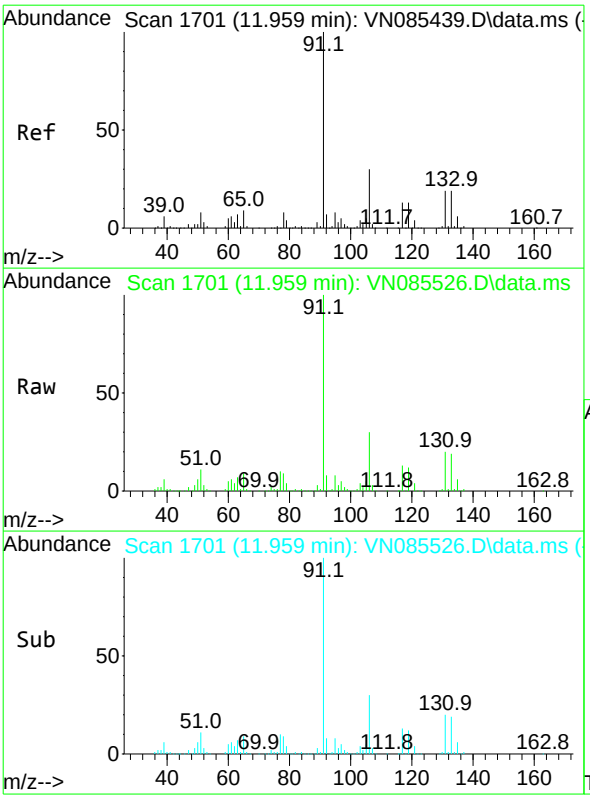




#66
1,1,1,2-Tetrachloroethane
Concen: 53.447 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:131 Resp: 130012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.0 | 47.4 | 142.3 |
| 119 | 64.2 | 33.1 | 99.5 |






#67
Ethyl Benzene
Concen: 57.531 ug/l
RT: 11.959 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 91 Resp: 621051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.2 | 23.8 | 35.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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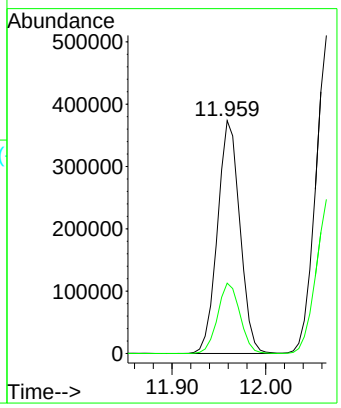
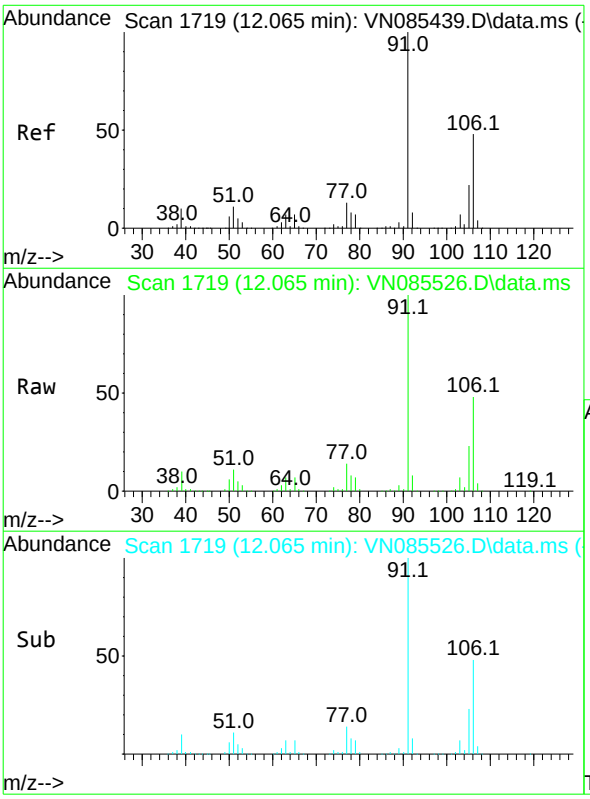
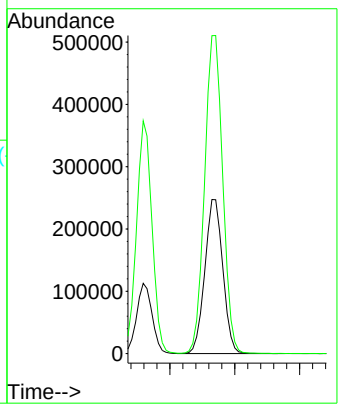


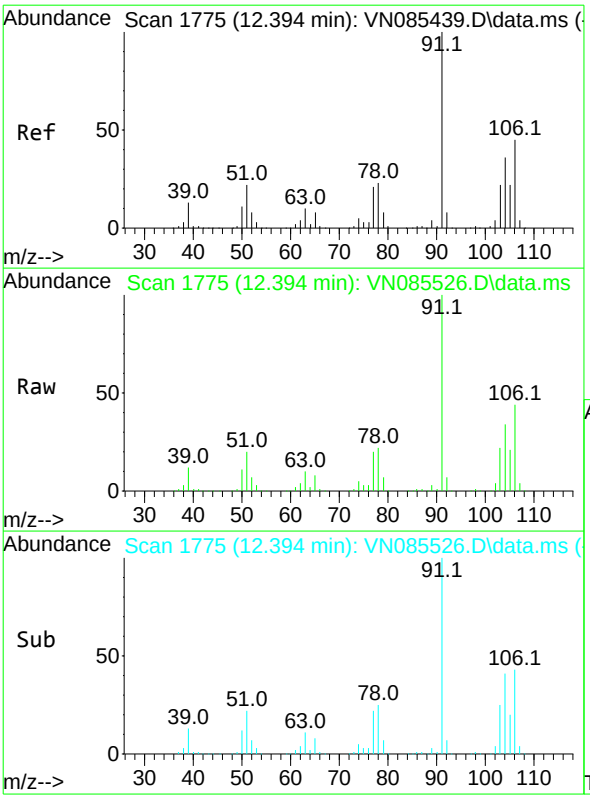




#68
m/p-Xylenes
Concen: 119.124 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:106 Resp: 475266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.6 | 167.7 | 251.5 |






#69
o-Xylene
Concen: 58.639 ug/l
RT: 12.394 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:106 Resp: 223578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.9 | 110.4 | 331.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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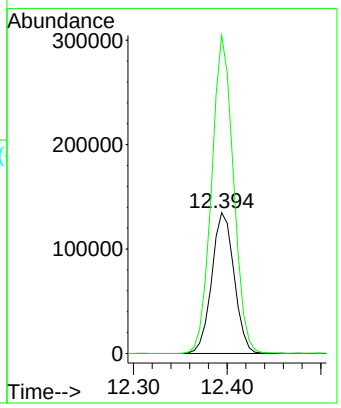
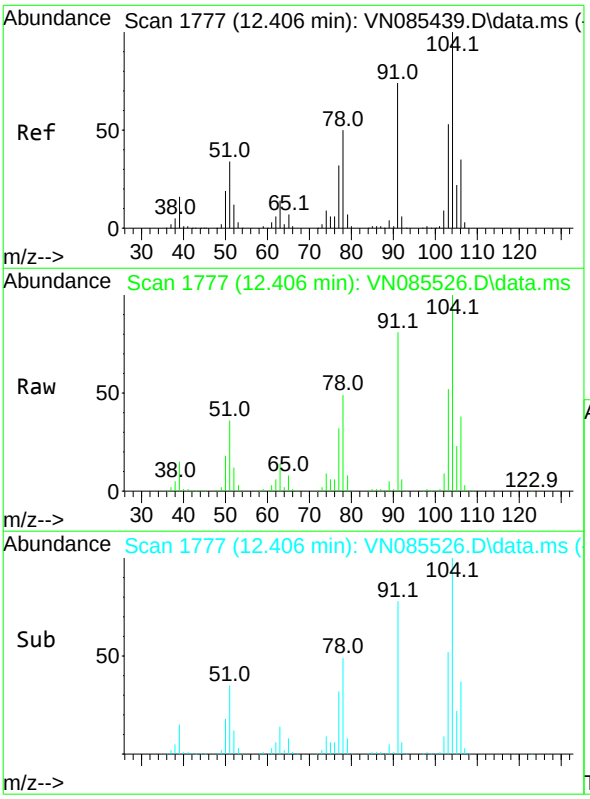
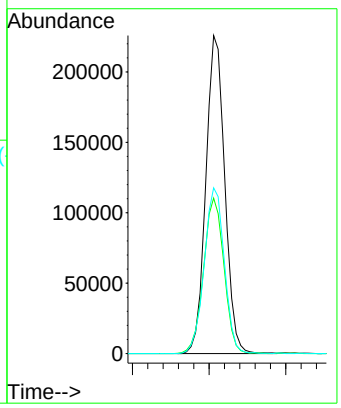


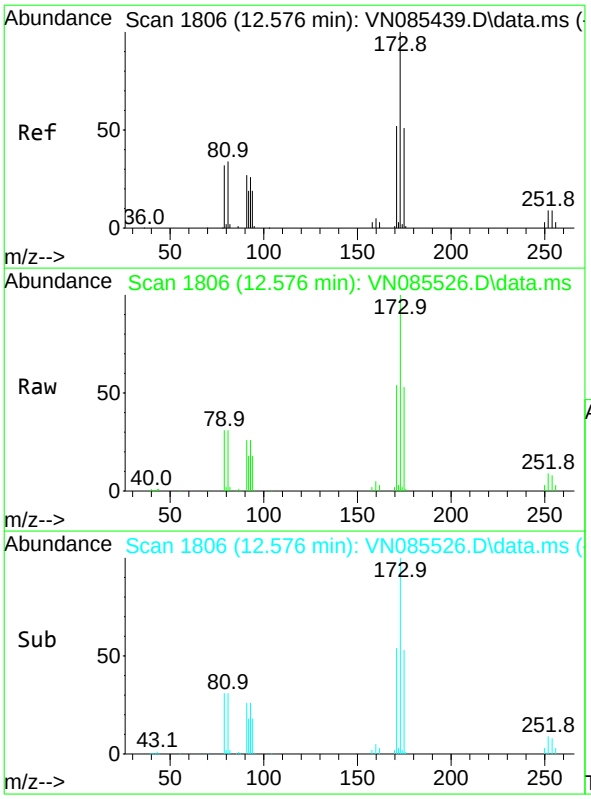




#70
Styrene
Concen: 61.343 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:104 Resp: 387081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.7 | 42.5 | 63.7 |
| 103 | 55.4 | 43.8 | 65.8 |






#71
Bromoform
Concen: 58.046 ug/l
RT: 12.576 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

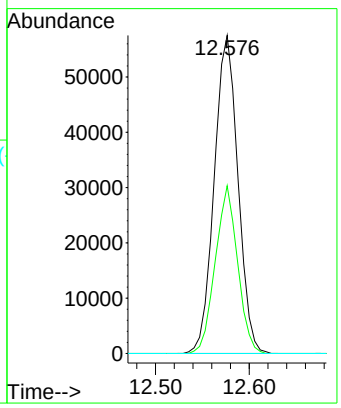
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

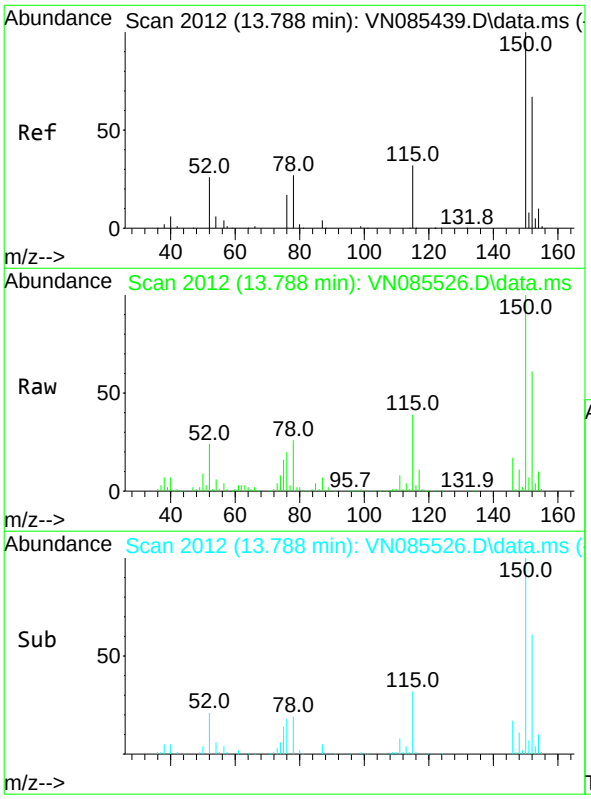
Tgt Ion:173 Resp: 101032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.5 | 24.4 | 73.2 |
| 254 | 0.0 | 0.0 | 0.0 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

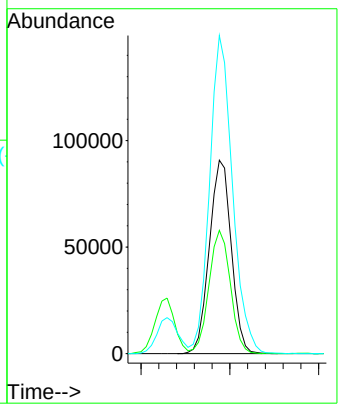


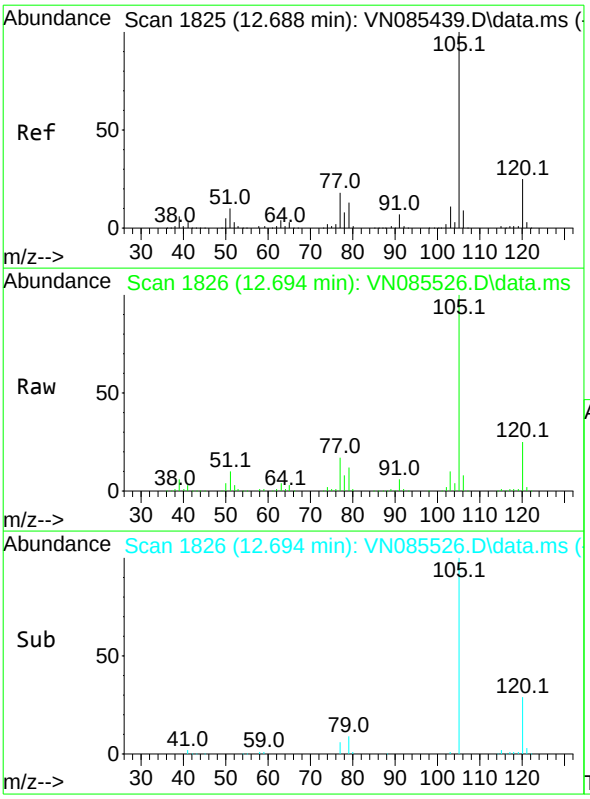




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:152 Resp: 155713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.3 | 31.1 | 93.3 |
| 150 | 172.0 | 0.0 | 343.6 |






#73
Isopropylbenzene
Concen: 55.357 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

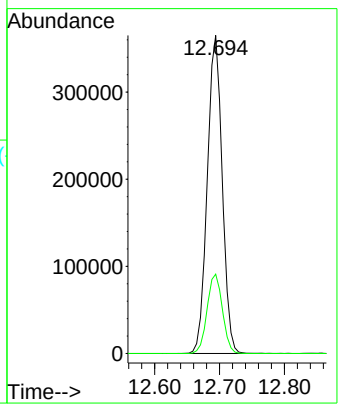
Tgt Ion:105 Resp: 581759

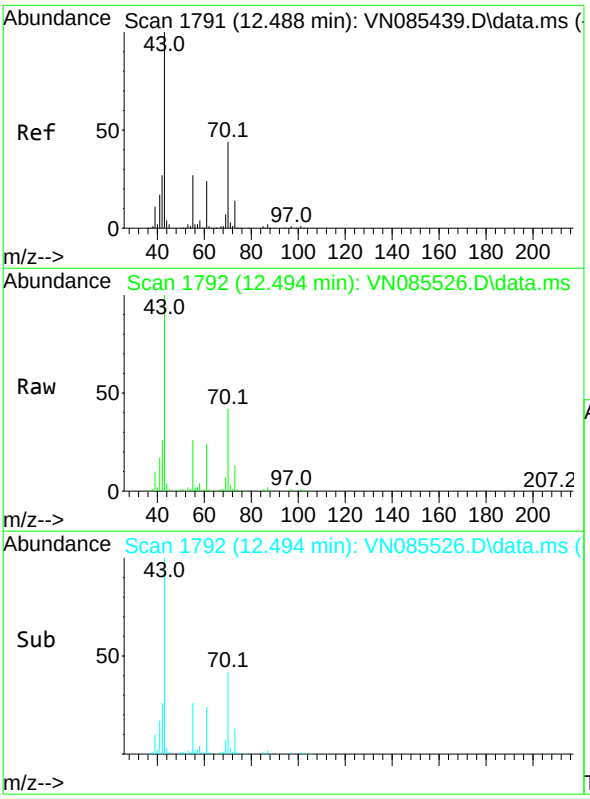
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.5 | 12.8 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

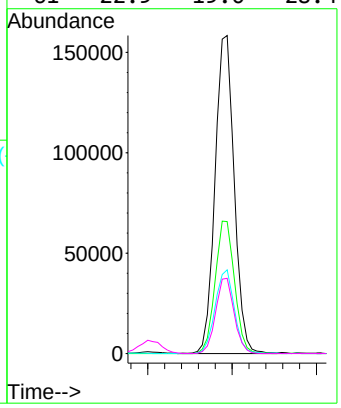


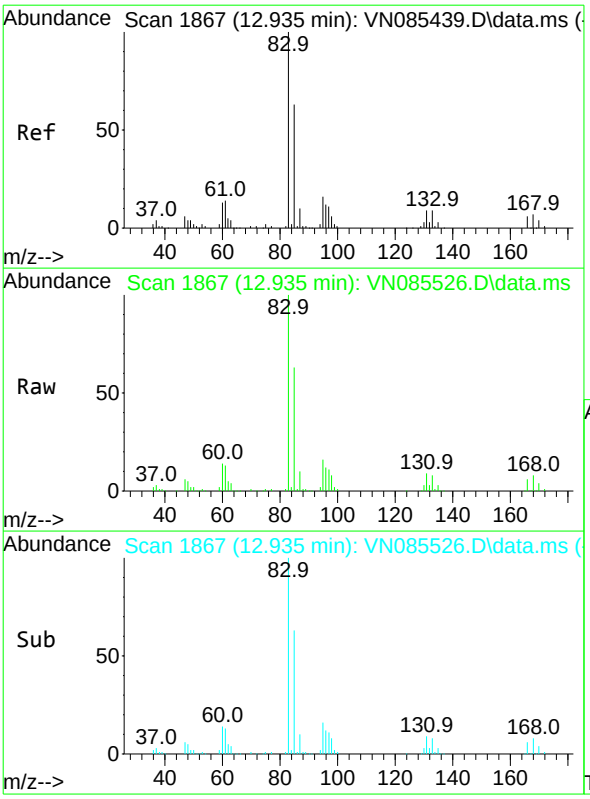




#74
N-amyl acetate
Concen: 52.919 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 43 Resp: 249973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.1 | 34.0 | 51.0 |
| 55 | 26.4 | 21.4 | 32.2 |
| 61 | 22.9 | 19.0 | 28.4 |






#75
1,1,2,2-Tetrachloroethane
Concen: 49.089 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

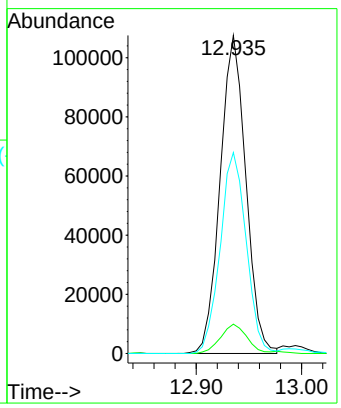
Tgt Ion: 83 Resp: 182235

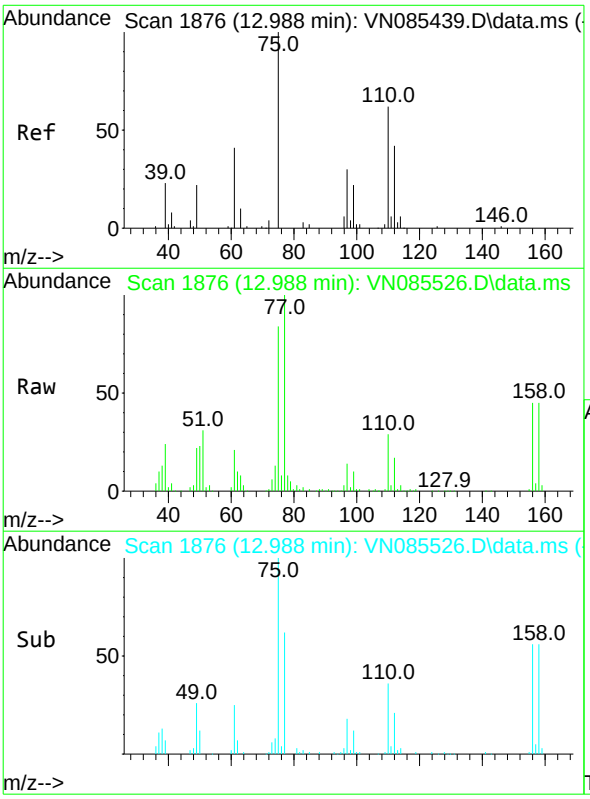
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 4.8 | 14.4 |
| 85 | 63.9 | 32.2 | 96.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

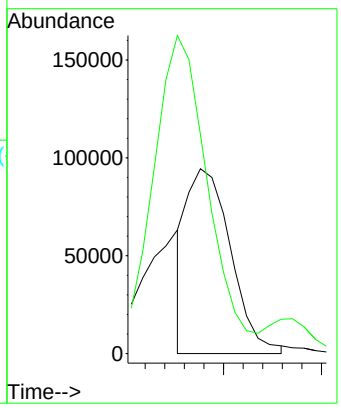


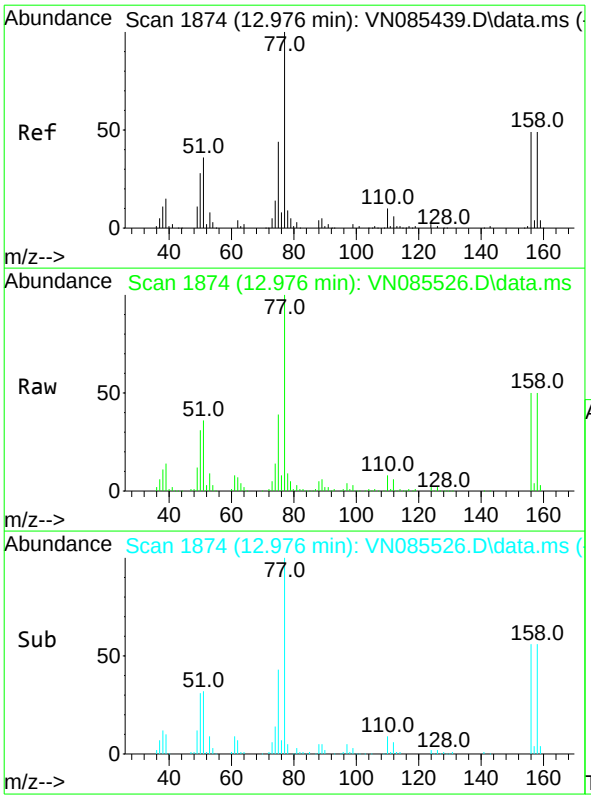




#76
1,2,3-Trichloropropane
Concen: 46.478 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 75 Resp: 147100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 216.6 | 109.7 | 329.2 |






#77
Bromobenzene
Concen: 50.547 ug/l
RT: 12.976 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

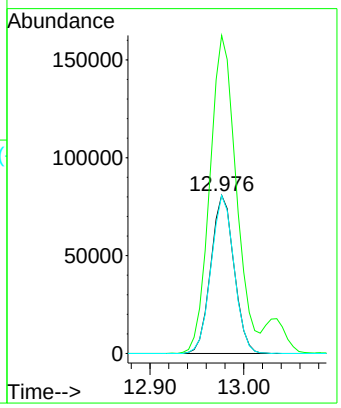
Tgt Ion:156 Resp: 138788

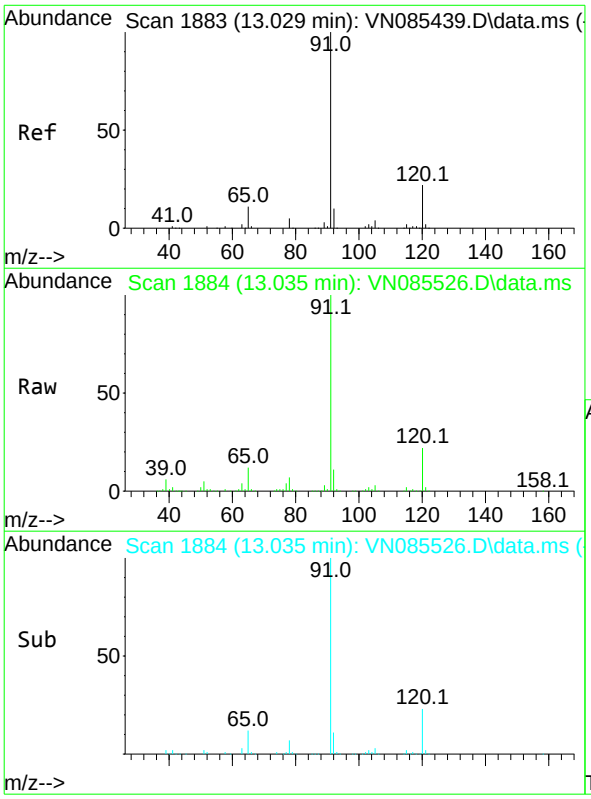
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 229.6 | 114.1 | 342.4 |
| 158 | 98.7 | 48.9 | 146.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

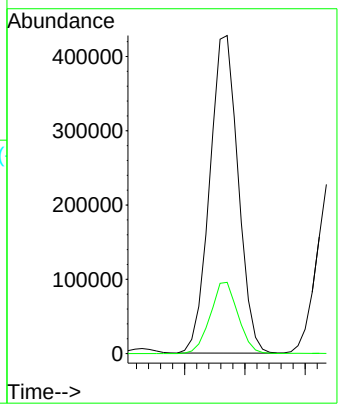


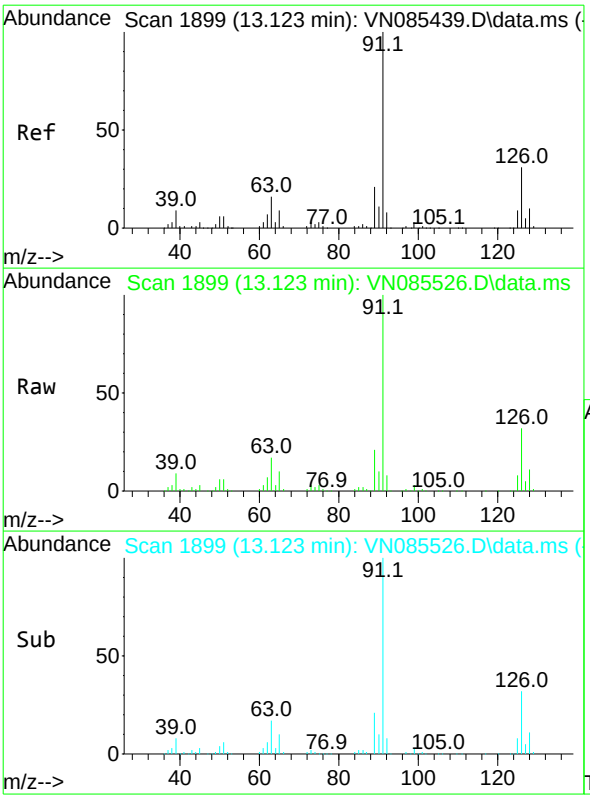




#78
n-propylbenzene
Concen: 56.362 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 91 Resp: 701218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.9 | 10.9 | 32.6 |






#79
2-Chlorotoluene
Concen: 52.764 ug/l
RT: 13.123 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 91 Resp: 424851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.2 | 15.7 | 47.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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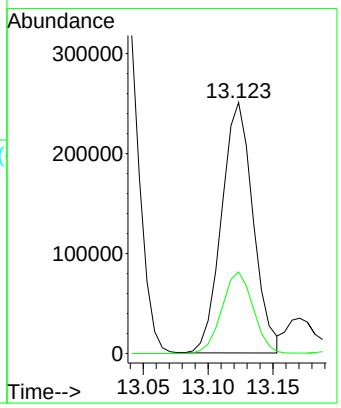
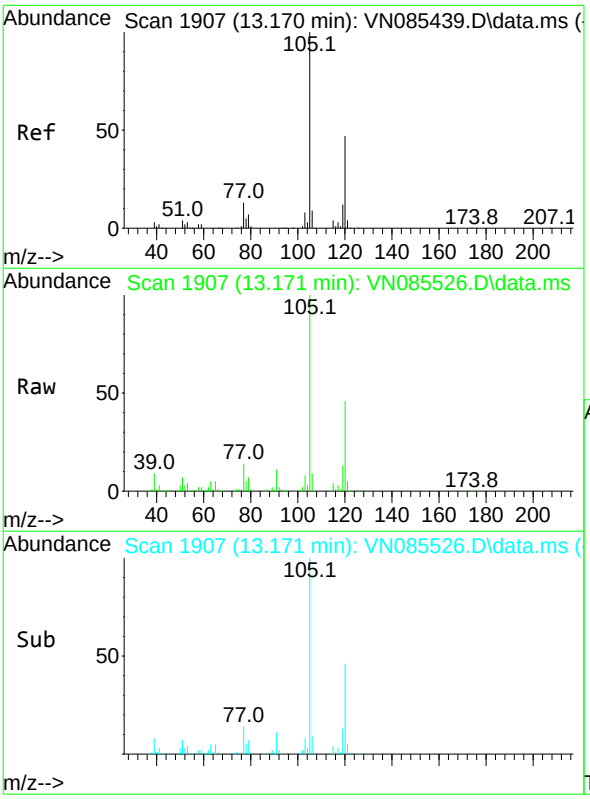
Supervised By :Semsettin Yesilyurt 01/29/2025

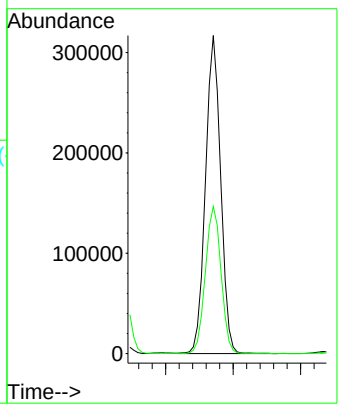


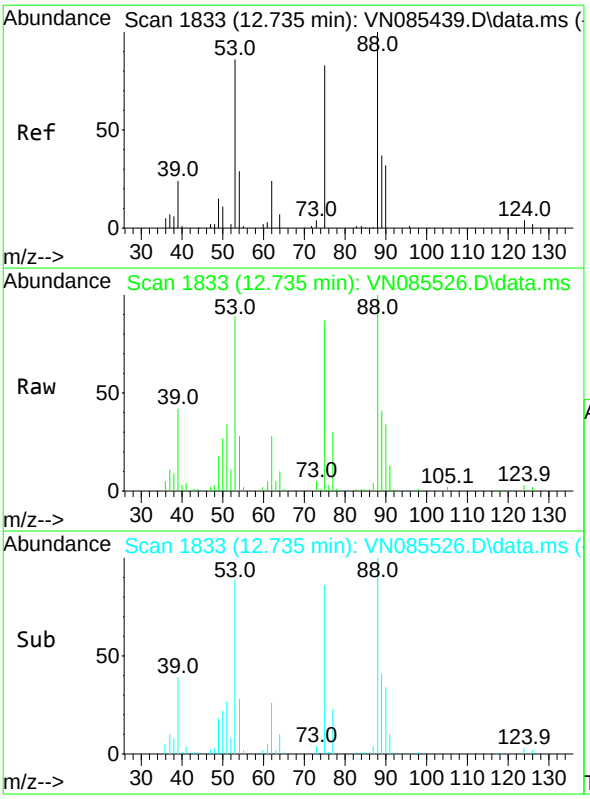




#80
1,3,5-Trimethylbenzene
Concen: 56.984 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:105 Resp: 494666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.7 | 23.9 | 71.7 |






#81
trans-1,4-Dichloro-2-butene
Concen: 54.370 ug/l
RT: 12.735 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

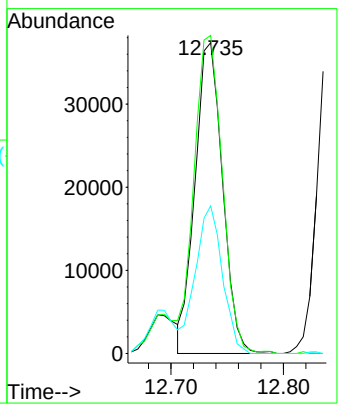
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

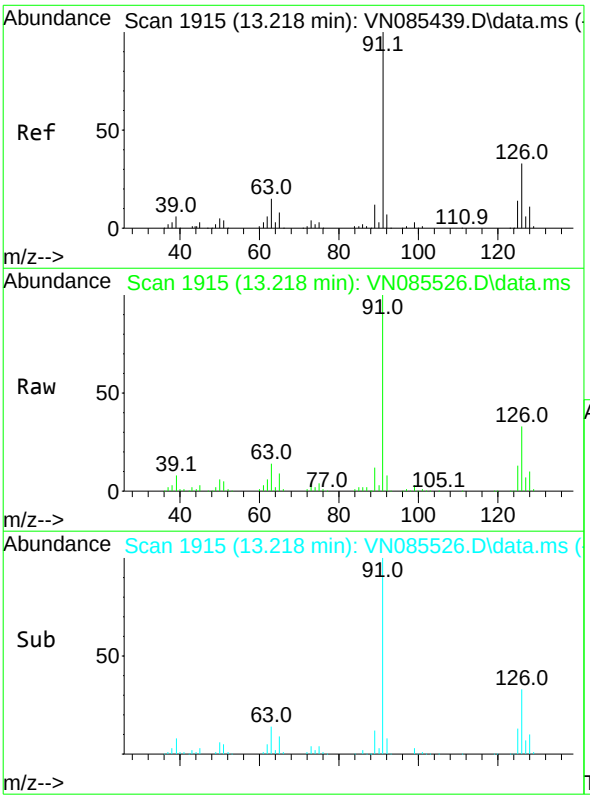
Tgt Ion: 75 Resp: 63601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 107.1 | 95.6 | 143.4 |
| 89 | 46.8 | 37.0 | 55.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

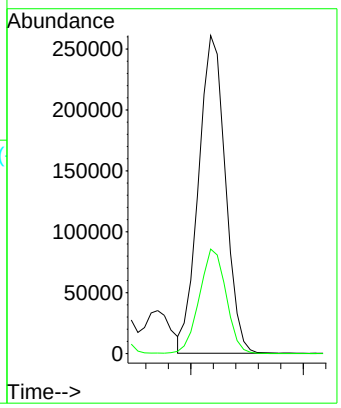


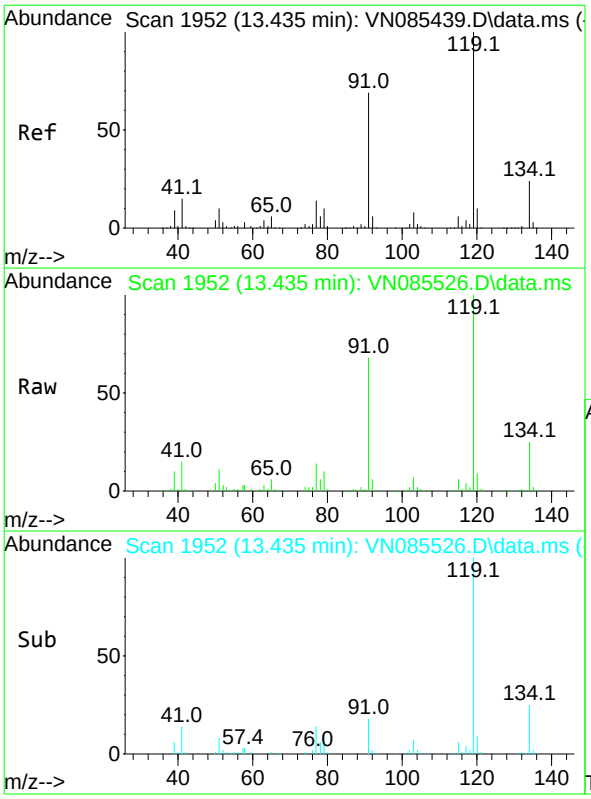




#82
4-Chlorotoluene
Concen: 53.960 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 91 Resp: 432608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.8 | 15.9 | 47.7 |






#83
tert-Butylbenzene
Concen: 55.641 ug/l
RT: 13.435 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:119 Resp: 405613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 69.8 | 35.1 | 105.3 |
| 134 | 27.3 | 12.0 | 36.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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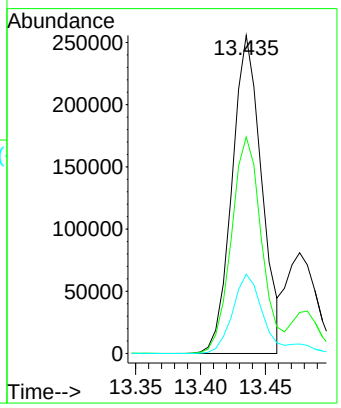
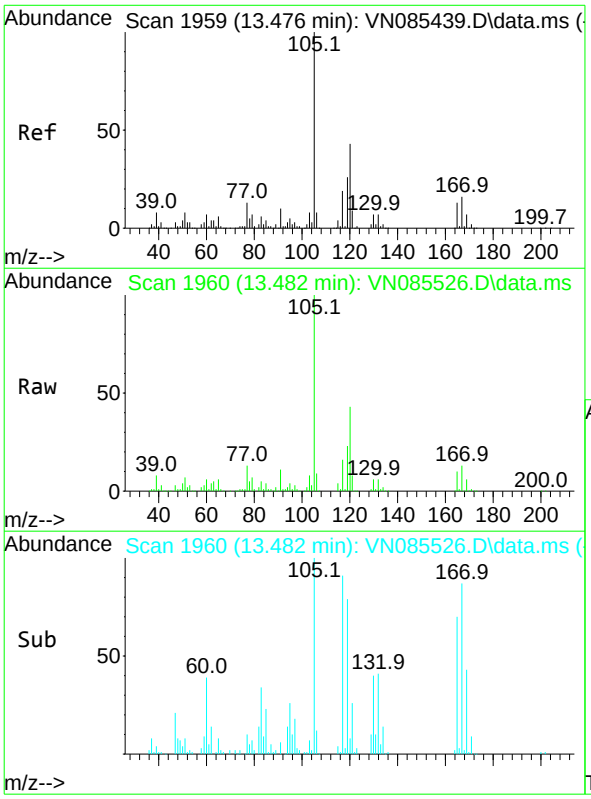
Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

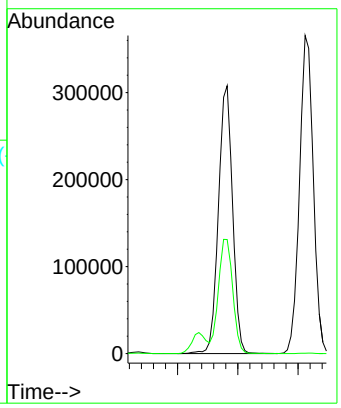


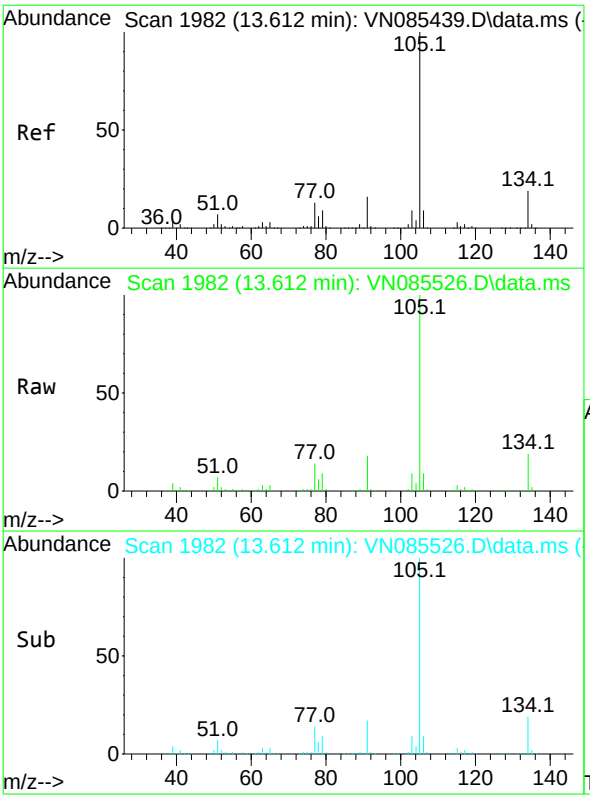




#84
1,2,4-Trimethylbenzene
Concen: 57.941 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:105 Resp: 501298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.4 | 21.6 | 65.0 |






#85
sec-Butylbenzene
Concen: 57.499 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:105 Resp: 580942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.4 | 9.7 | 28.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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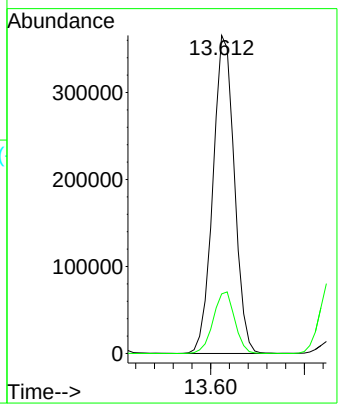
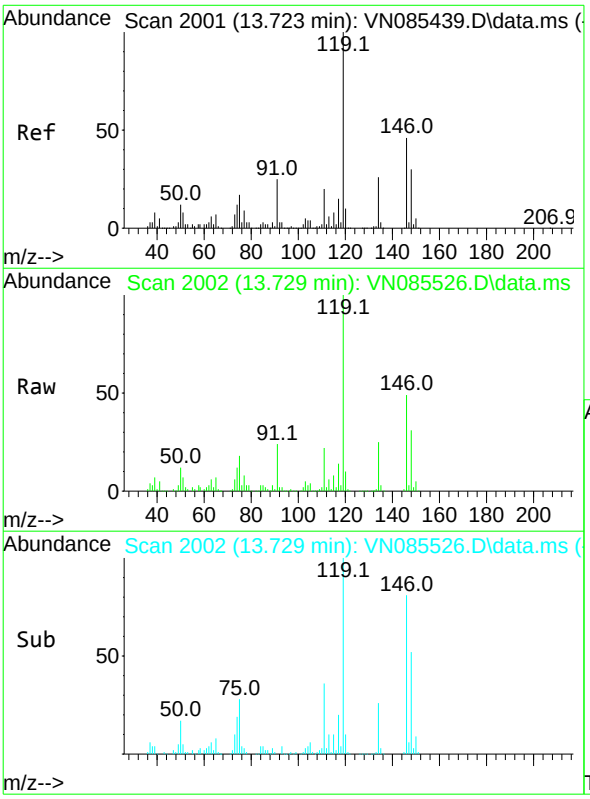
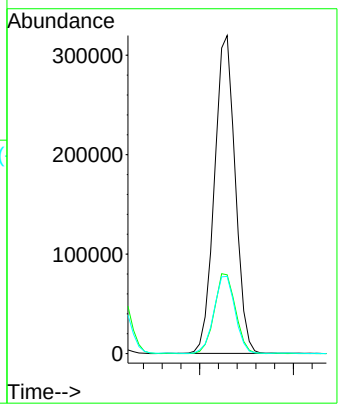


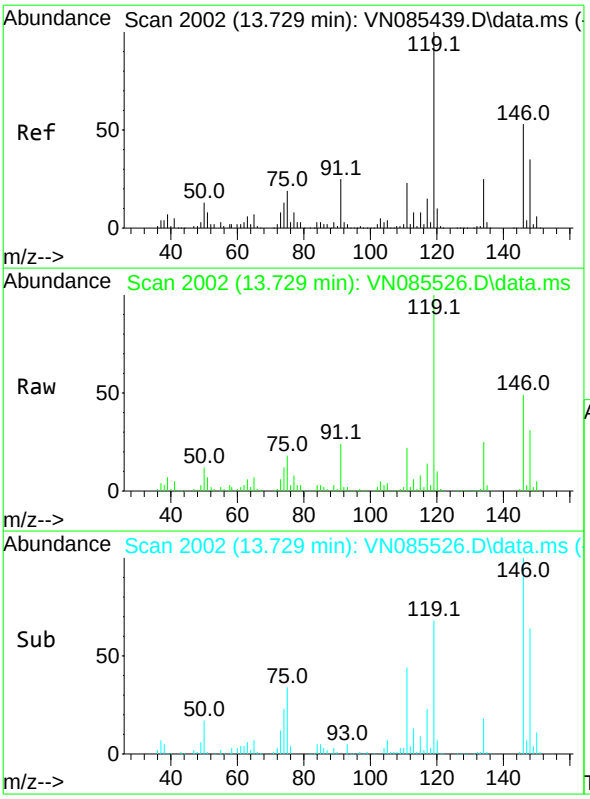




#86
p-Isopropyltoluene
Concen: 53.532 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:119 Resp: 491281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.5 | 12.7 | 38.0 |
| 91 | 24.7 | 12.7 | 38.1 |






#87
1,3-Dichlorobenzene
Concen: 52.335 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:146 Resp: 264631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.3 | 21.4 | 64.3 |
| 148 | 64.1 | 32.3 | 96.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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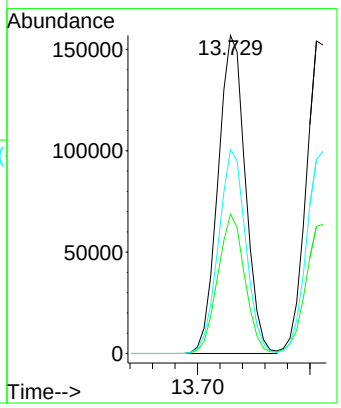
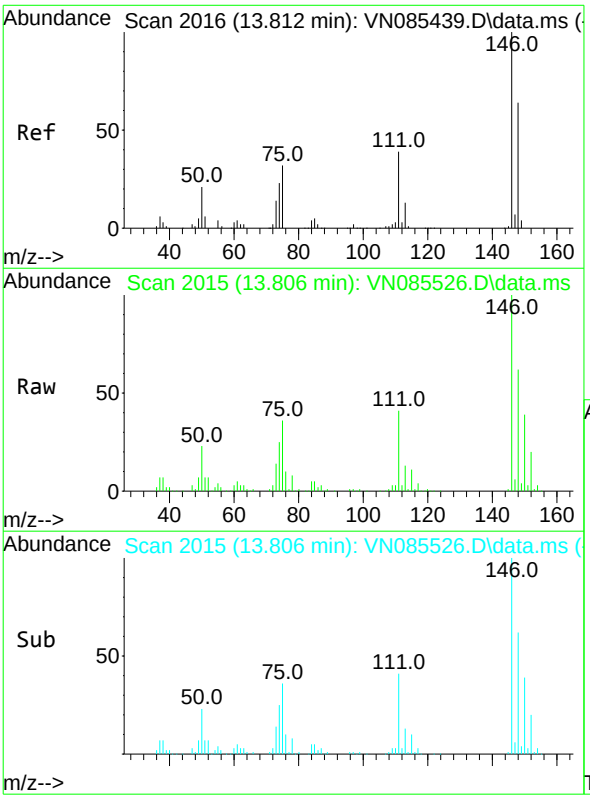
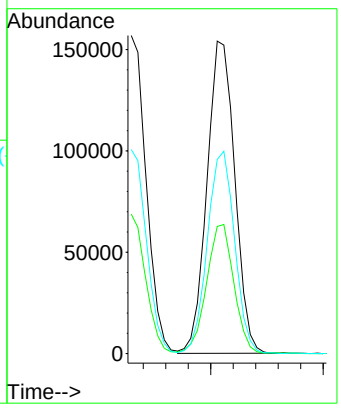


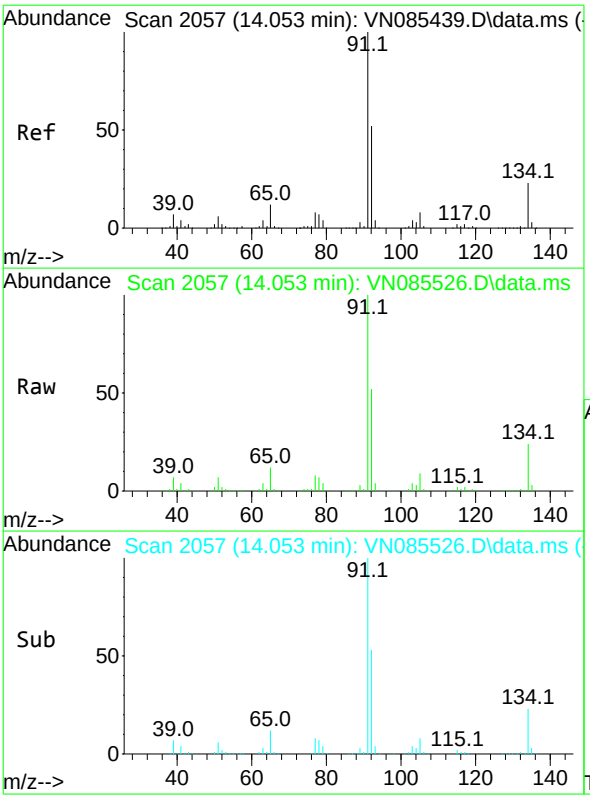




#88
1,4-Dichlorobenzene
Concen: 50.507 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:146 Resp: 264719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.8 | 21.3 | 63.7 |
| 148 | 63.7 | 32.4 | 97.0 |






#89
n-Butylbenzene
Concen: 58.013 ug/l
RT: 14.053 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 91 Resp: 420498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.1 | 25.8 | 77.3 |
| 134 | 24.2 | 11.7 | 35.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
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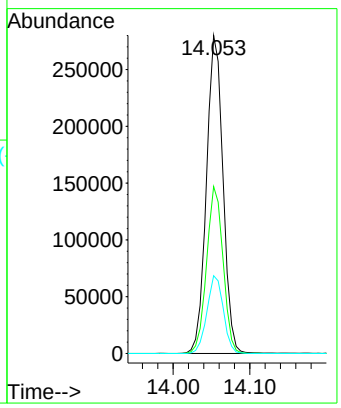
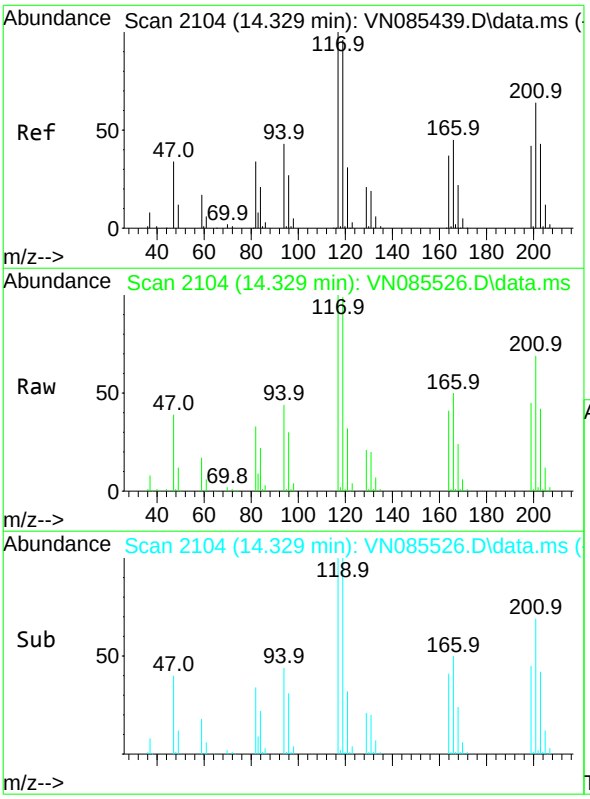
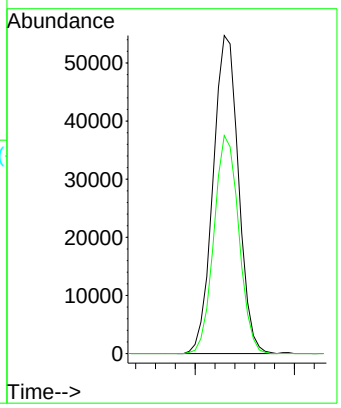


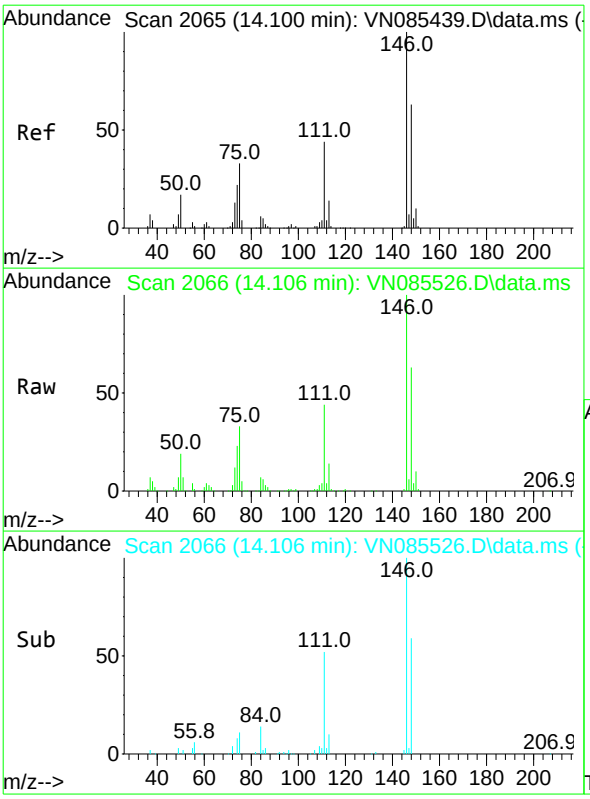




#90
Hexachloroethane
Concen: 50.630 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:117 Resp: 97383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 67.0 | 33.7 | 101.0 |






#91
1,2-Dichlorobenzene
Concen: 50.739 ug/l
RT: 14.106 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

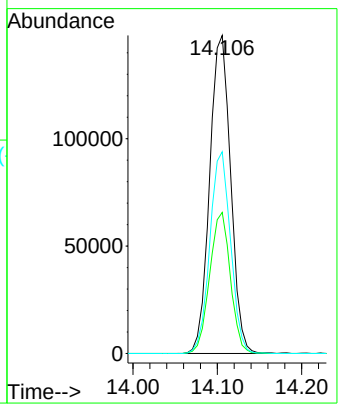
Tgt Ion:146 Resp: 255916

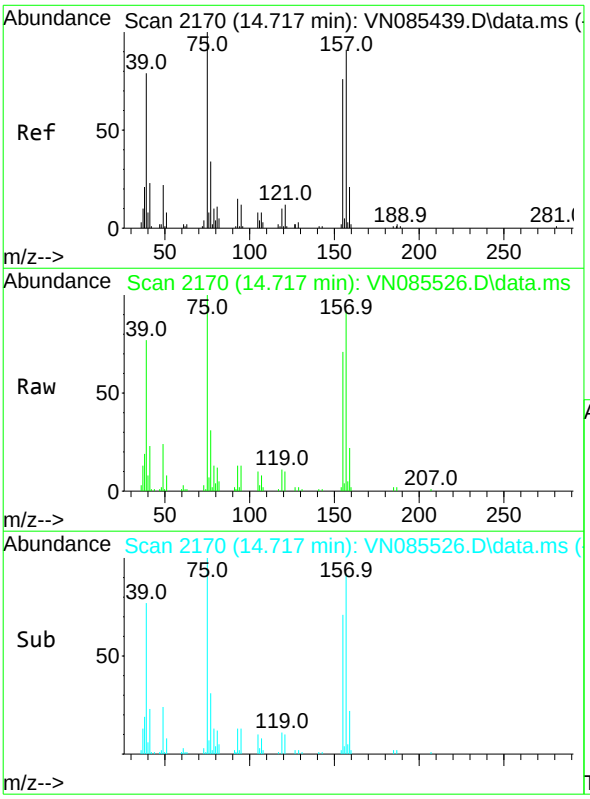
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.8 | 21.7 | 65.1 |
| 148 | 62.7 | 31.4 | 94.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

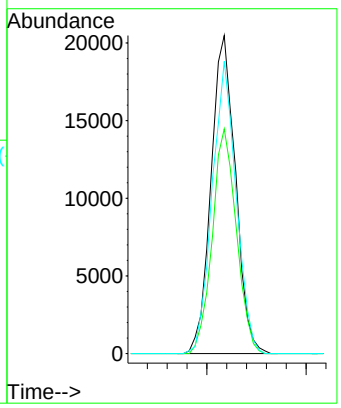


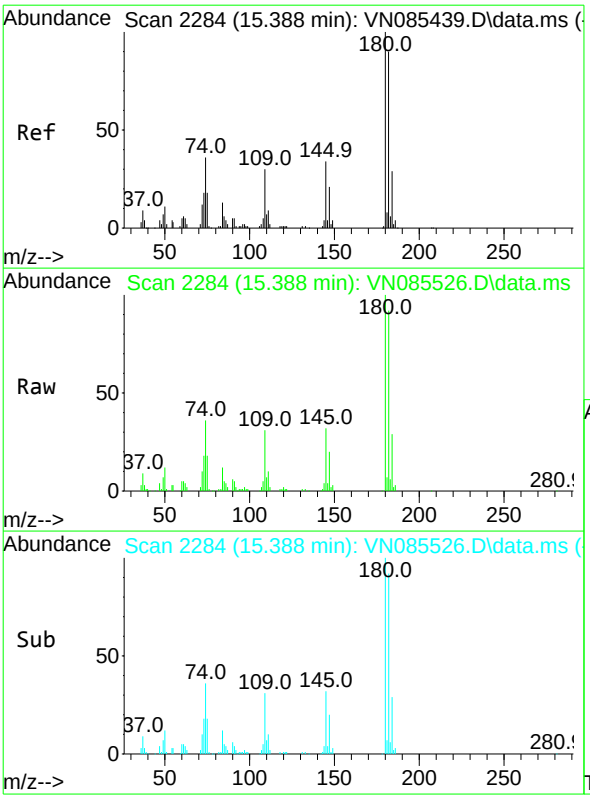




#92
1,2-Dibromo-3-Chloropropane
Concen: 51.620 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion: 75 Resp: 34993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 69.5 | 36.4 | 109.2 |
| 157 | 90.0 | 45.4 | 136.1 |






#93
1,2,4-Trichlorobenzene
Concen: 54.246 ug/l
RT: 15.388 min Scan# 22
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

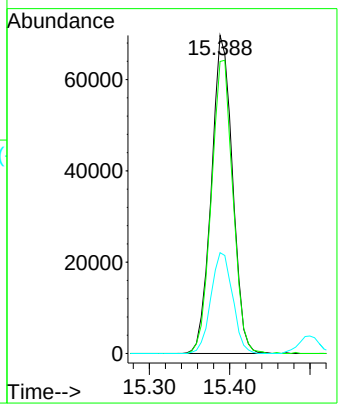
**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

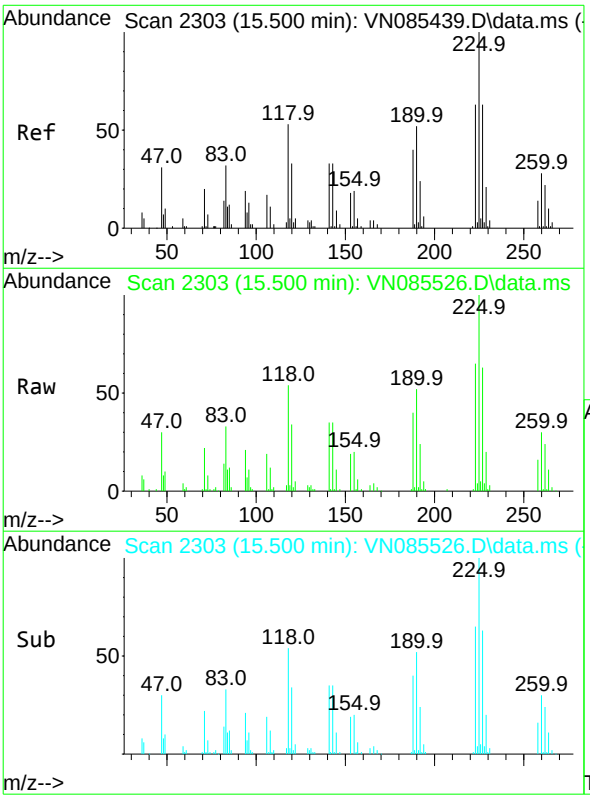
Tgt Ion:180 Resp: 127164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.6 | 46.8 | 140.3 |
| 145 | 32.5 | 16.0 | 48.0 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

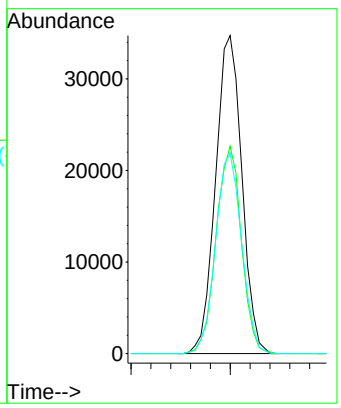


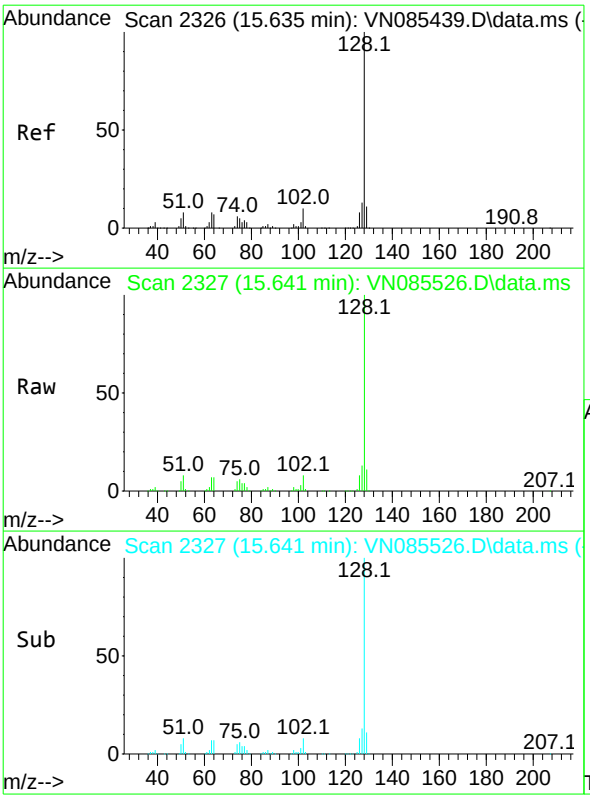




#94
Hexachlorobutadiene
Concen: 51.348 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:225 Resp: 63906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 30.7 | 92.1 |
| 227 | 62.3 | 30.9 | 92.5 |






#95
Naphthalene
Concen: 52.473 ug/l
RT: 15.641 min Scan# 23
Delta R.T. 0.006 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

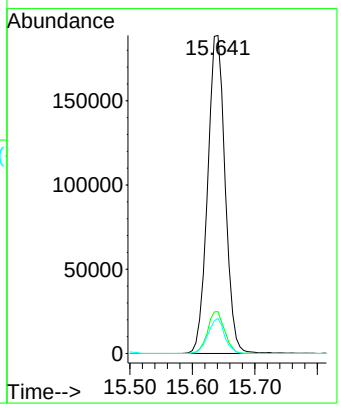
Tgt Ion:128 Resp: 367063

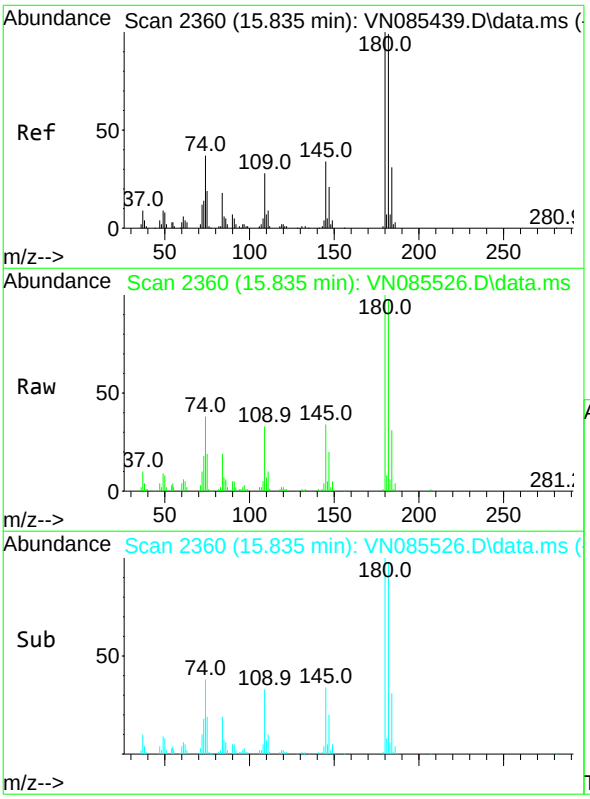
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.6 | 16.0 |
| 129 | 10.5 | 8.8 | 13.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

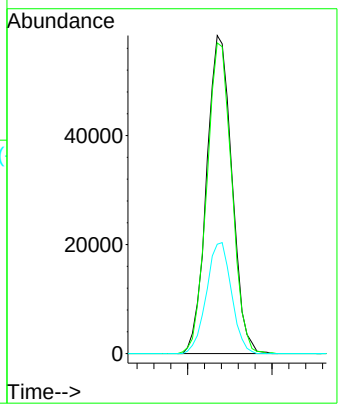



#96
1,2,3-Trichlorobenzene
Concen: 51.230 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085526.D
Acq: 28 Jan 2025 09:53

Tgt Ion:180 Resp: 121516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.0 | 47.4 | 142.2 |
| 145 | 34.5 | 16.9 | 50.7 |



Evaluate Continuing Calibration Report

Sample Results: **VN085526.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085526.D
Acq On : 28 Jan 2025 09:53
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 29 00:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 102 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.677 | 0.620 | 8.4 | 101 | 0.00 |
| 3 | P | Chloromethane | 0.733 | 0.642 | 12.4 | 96 | 0.00 |
| 4 | C | Vinyl Chloride | 0.737 | 0.665 | 9.8# | 99 | 0.00 |
| 5 | T | Bromomethane | 0.445 | 0.389 | 12.6 | 95 | 0.00 |
| 6 | T | Chloroethane | 0.467 | 0.439 | 6.0 | 106 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.069 | 1.071 | -0.2 | 110 | 0.00 |
| 8 | T | Diethyl Ether | 0.369 | 0.361 | 2.2 | 102 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.602 | 0.618 | -2.7 | 116 | 0.00 |
| 10 | T | Methyl Iodide | 0.690 | 0.708 | -2.6 | 100 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.092 | 0.108 | -17.4 | 119 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.537 | 0.526 | 2.0# | 101 | 0.00 |
| 13 | T | Acrolein | 0.126 | 0.132 | -4.8 | 97 | 0.00 |
| 14 | T | Allyl chloride | 0.871 | 0.848 | 2.6 | 102 | 0.00 |
| 15 | T | Acrylonitrile | 0.294 | 0.306 | -4.1 | 105 | 0.00 |
| 16 | T | Acetone | 0.261 | 0.263 | -0.8 | 106 | 0.00 |
| 17 | T | Carbon Disulfide | 1.652 | 1.391 | 15.8 | 96 | 0.00 |
| 18 | T | Methyl Acetate | 0.793 | 0.859 | -8.3 | 111 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.742 | 1.940 | -11.4 | 106 | 0.00 |
| 20 | T | Methylene Chloride | 0.646 | 0.645 | 0.2 | 105 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.573 | 0.570 | 0.5 | 105 | 0.00 |
| 22 | T | Diisopropyl ether | 1.933 | 2.096 | -8.4 | 105 | 0.00 |
| 23 | T | Vinyl Acetate | 1.353 | 1.493 | -10.3 | 102 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.178 | 1.202 | -2.0 | 105 | 0.00 |
| 25 | T | 2-Butanone | 0.384 | 0.399 | -3.9 | 105 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.953 | 1.098 | -15.2 | 120 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.675 | 0.700 | -3.7 | 105 | 0.00 |
| 28 | T | Bromochloromethane | 0.548 | 0.499 | 8.9 | 94 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.243 | 0.267 | -9.9 | 105 | 0.00 |
| 30 | C | Chloroform | 1.218 | 1.248 | -2.5# | 109 | 0.00 |
| 31 | T | Cyclohexane | 1.024 | 0.931 | 9.1 | 108 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.068 | 1.105 | -3.5 | 111 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.807 | 0.777 | 3.7 | 96 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.347 | 0.355 | -2.3 | 98 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.487 | 0.512 | -5.1 | 109 | 0.00 |
| 37 | T | Ethyl Acetate | 0.491 | 0.520 | -5.9 | 105 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.557 | 0.602 | -8.1 | 112 | 0.00 |
| 39 | T | Methylcyclohexane | 0.457 | 0.513 | -12.3 | 109 | 0.00 |
| 40 | TM | Benzene | 1.463 | 1.575 | -7.7 | 107 | 0.00 |
| 41 | T | Methacrylonitrile | 0.256 | 0.285 | -11.3 | 104 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.551 | 0.585 | -6.2 | 105 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.787 | 0.862 | -9.5 | 104 | 0.00 |
| 44 | TM | Trichloroethene | 0.341 | 0.359 | -5.3 | 109 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.374 | 0.407 | -8.8# | 108 | 0.00 |
| 46 | T | Dibromomethane | 0.270 | 0.287 | -6.3 | 106 | 0.00 |
| 47 | T | Bromodichloromethane | 0.549 | 0.613 | -11.7 | 108 | 0.00 |
| 48 | T | Methyl methacrylate | 0.354 | 0.409 | -15.5 | 102 | 0.00 |

Sample Results: **VN085526.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085526.D
Acq On : 28 Jan 2025 09:53
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 29 00:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 0.006 | 0.006 | 0.0 | 94 | 0.00 |
| 50 | S | Toluene-d8 | 1.232 | 1.296 | -5.2 | 100 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.457 | 0.535 | -17.1 | 107 | 0.00 |
| 52 | CM | Toluene | 0.848 | 0.975 | -15.0# | 110 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.519 | 0.611 | -17.7 | 109 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.554 | 0.639 | -15.3 | 107 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.335 | 0.375 | -11.9 | 108 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.469 | 0.575 | -22.6 | 104 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.583 | 0.657 | -12.7 | 107 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.213 | 0.256 | -20.2 | 104 | 0.00 |
| 59 | T | 2-Hexanone | 0.321 | 0.386 | -20.2 | 106 | 0.00 |
| 60 | T | Dibromochloromethane | 0.405 | 0.460 | -13.6 | 109 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.334 | 0.366 | -9.6 | 108 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.422 | 0.467 | -10.7 | 102 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 64 | T | Tetrachloroethene | 0.341 | 0.361 | -5.9 | 114 | 0.00 |
| 65 | PM | Chlorobenzene | 1.095 | 1.171 | -6.9 | 111 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.402 | 0.430 | -7.0 | 112 | 0.00 |
| 67 | C | Ethyl Benzene | 1.784 | 2.053 | -15.1# | 112 | 0.00 |
| 68 | T | m/p-Xylenes | 0.659 | 0.785 | -19.1 | 113 | 0.00 |
| 69 | T | o-Xylene | 0.630 | 0.739 | -17.3 | 110 | 0.00 |
| 70 | T | Styrene | 1.043 | 1.279 | -22.6 | 111 | 0.00 |
| 71 | P | Bromoform | 0.288 | 0.334 | -16.0 | 109 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 73 | T | Isopropylbenzene | 3.375 | 3.736 | -10.7 | 115 | 0.00 |
| 74 | T | N-amyl acetate | 1.517 | 1.605 | -5.8 | 105 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.192 | 1.170 | 1.8 | 109 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.016 | 0.945 | 7.0 | 112 | 0.00 |
| 77 | T | Bromobenzene | 0.882 | 0.891 | -1.0 | 110 | 0.00 |
| 78 | T | n-propylbenzene | 3.995 | 4.503 | -12.7 | 115 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.586 | 2.728 | -5.5 | 112 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.787 | 3.177 | -14.0 | 115 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.376 | 0.408 | -8.5 | 111 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.574 | 2.778 | -7.9 | 114 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.341 | 2.605 | -11.3 | 113 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.778 | 3.219 | -15.9 | 113 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.244 | 3.731 | -15.0 | 116 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.631 | 3.155 | -19.9 | 117 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.624 | 1.699 | -4.6 | 115 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.683 | 1.700 | -1.0 | 116 | 0.00 |
| 89 | T | n-Butylbenzene | 2.327 | 2.700 | -16.0 | 115 | 0.00 |
| 90 | T | Hexachloroethane | 0.618 | 0.625 | -1.1 | 115 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.620 | 1.644 | -1.5 | 112 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.218 | 0.225 | -3.2 | 108 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.753 | 0.817 | -8.5 | 111 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.400 | 0.410 | -2.5 | 119 | 0.00 |
| 95 | T | Naphthalene | 2.246 | 2.357 | -4.9 | 101 | 0.00 |

Sample Results: **VN085526.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085526.D
Acq On : 28 Jan 2025 09:53
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 29 00:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 0.762 | 0.780 | -2.4 | 105 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Sample Results: **VN085526.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085526.D
Acq On : 28 Jan 2025 09:53
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 29 00:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 102 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 45.800 | 8.4 | 101 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 43.823 | 12.4 | 96 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 45.155 | 9.7# | 99 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 43.757 | 12.5 | 95 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 46.993 | 6.0 | 106 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 50.109 | -0.2 | 110 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 48.819 | 2.4 | 102 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 51.335 | -2.7 | 116 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 51.306 | -2.6 | 100 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 293.091 | -17.2 | 119 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 49.022 | 2.0# | 101 | 0.00 |
| 13 | T | Acrolein | 250.000 | 261.783 | -4.7 | 97 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 48.683 | 2.6 | 102 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 260.994 | -4.4 | 105 | 0.00 |
| 16 | T | Acetone | 250.000 | 251.929 | -0.8 | 106 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 42.095 | 15.8 | 96 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 54.151 | -8.3 | 111 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 55.663 | -11.3 | 106 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 49.931 | 0.1 | 105 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 49.692 | 0.6 | 105 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 54.237 | -8.5 | 105 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 276.027 | -10.4 | 102 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 51.014 | -2.0 | 105 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 260.223 | -4.1 | 105 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 57.640 | -15.3 | 120 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 51.799 | -3.6 | 105 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 45.505 | 9.0 | 94 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 274.712 | -9.9 | 105 | 0.00 |
| 30 | C | Chloroform | 50.000 | 51.246 | -2.5# | 109 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 45.451 | 9.1 | 108 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 51.727 | -3.5 | 111 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 48.164 | 3.7 | 96 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 51.240 | -2.5 | 98 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 52.537 | -5.1 | 109 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 52.923 | -5.8 | 105 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 54.013 | -8.0 | 112 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 56.039 | -12.1 | 109 | 0.00 |
| 40 | TM | Benzene | 50.000 | 53.828 | -7.7 | 107 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 55.717 | -11.4 | 104 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 53.072 | -6.1 | 105 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 54.755 | -9.5 | 104 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 52.672 | -5.3 | 109 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 54.447 | -8.9# | 108 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 53.179 | -6.4 | 106 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 55.774 | -11.5 | 108 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 57.693 | -15.4 | 102 | 0.00 |

Sample Results: **VN085526.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085526.D
Acq On : 28 Jan 2025 09:53
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 29 00:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 1019.345 | -1.9 | 94 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 52.569 | -5.1 | 100 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 292.599 | -17.0 | 107 | 0.00 |
| 52 | CM | Toluene | 50.000 | 57.499 | -15.0# | 110 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 58.899 | -17.8 | 109 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 57.610 | -15.2 | 107 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 55.851 | -11.7 | 108 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 50.844 | -1.7 | 104 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 56.327 | -12.7 | 107 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 300.465 | -20.2 | 104 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 300.034 | -20.0 | 106 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 56.815 | -13.6 | 109 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 54.776 | -9.6 | 108 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 55.379 | -10.8 | 102 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 52.974 | -5.9 | 114 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 53.457 | -6.9 | 111 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 53.447 | -6.9 | 112 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 57.531 | -15.1# | 112 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 119.124 | -19.1 | 113 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 58.639 | -17.3 | 110 | 0.00 |
| 70 | T | Styrene | 50.000 | 61.343 | -22.7 | 111 | 0.00 |
| 71 | P | Bromoform | 50.000 | 58.046 | -16.1 | 109 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 106 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 55.357 | -10.7 | 115 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 52.919 | -5.8 | 105 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 49.089 | 1.8 | 109 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 46.478 | 7.0 | 112 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.547 | -1.1 | 110 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 56.362 | -12.7 | 115 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 52.764 | -5.5 | 112 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 56.984 | -14.0 | 115 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 54.370 | -8.7 | 111 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 53.960 | -7.9 | 114 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 55.641 | -11.3 | 113 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 57.941 | -15.9 | 113 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 57.499 | -15.0 | 116 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 53.532 | -7.1 | 117 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 52.335 | -4.7 | 115 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.507 | -1.0 | 116 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 58.013 | -16.0 | 115 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 50.630 | -1.3 | 115 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 50.739 | -1.5 | 112 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.620 | -3.2 | 108 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 54.246 | -8.5 | 111 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 51.348 | -2.7 | 119 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 52.473 | -4.9 | 101 | 0.00 |

Sample Results: **VN085526.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085526.D
Acq On : 28 Jan 2025 09:53
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 29 00:33:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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 | 51.230 | -2.5 | 105 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VY020936.D**

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

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1194 SAS No.: Q1194 SDG No.: Q1194

Instrument ID: MSVOA_Y Calibration Date/Time: 01/27/2025 09:06

Lab File ID: VY020936.D Init. Calib. Date(s): 01/24/2025 01/24/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 14:03 16:21

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.378 | 0.432 | | 14.29 | 20 |
| Chloromethane | 0.281 | 0.332 | 0.1 | 18.15 | 20 |
| Vinyl Chloride | 0.307 | 0.358 | | 16.61 | 20 |
| Bromomethane | 0.208 | 0.238 | | 14.42 | 20 |
| Chloroethane | 0.180 | 0.214 | | 18.89 | 20 |
| Trichlorofluoromethane | 0.651 | 0.764 | | 17.36 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.430 | 0.497 | | 15.58 | 20 |
| 1,1-Dichloroethene | 0.406 | 0.474 | | 16.75 | 20 |
| Acetone | 0.054 | 0.061 | | 12.96 | 20 |
| Carbon Disulfide | 1.253 | 1.464 | | 16.84 | 20 |
| Methyl tert-butyl Ether | 0.940 | 1.102 | | 17.23 | 20 |
| Methyl Acetate | 0.195 | 0.223 | | 14.36 | 20 |
| Methylene Chloride | 0.402 | 0.453 | | 12.69 | 20 |
| trans-1,2-Dichloroethene | 0.438 | 0.506 | | 15.52 | 20 |
| 1,1-Dichloroethane | 0.722 | 0.844 | 0.1 | 16.9 | 20 |
| Cyclohexane | 0.710 | 0.786 | | 10.7 | 20 |
| 2-Butanone | 0.091 | 0.104 | | 14.29 | 20 |
| Carbon Tetrachloride | 0.483 | 0.561 | | 16.15 | 20 |
| cis-1,2-Dichloroethene | 0.494 | 0.569 | | 15.18 | 20 |
| Bromochloromethane | 0.291 | 0.300 | | 3.09 | 20 |
| Chloroform | 0.764 | 0.882 | | 15.44 | 20 |
| 1,1,1-Trichloroethane | 0.742 | 0.845 | | 13.88 | 20 |
| Methylcyclohexane | 0.543 | 0.639 | | 17.68 | 20 |
| Benzene | 1.176 | 1.370 | | 16.5 | 20 |
| 1,2-Dichloroethane | 0.293 | 0.342 | | 16.72 | 20 |
| Trichloroethene | 0.319 | 0.371 | | 16.3 | 20 |
| 1,2-Dichloropropane | 0.260 | 0.303 | | 16.54 | 20 |
| Bromodichloromethane | 0.393 | 0.455 | | 15.78 | 20 |
| 4-Methyl-2-Pentanone | 0.149 | 0.174 | | 16.78 | 20 |
| Toluene | 0.756 | 0.890 | | 17.73 | 20 |
| t-1,3-Dichloropropene | 0.360 | 0.424 | | 17.78 | 20 |
| cis-1,3-Dichloropropene | 0.430 | 0.504 | | 17.21 | 20 |
| 1,1,2-Trichloroethane | 0.199 | 0.232 | | 16.58 | 20 |
| 2-Hexanone | 0.096 | 0.115 | | 19.79 | 20 |
| Dibromochloromethane | 0.281 | 0.328 | | 16.73 | 20 |
| 1,2-Dibromoethane | 0.191 | 0.217 | | 13.61 | 20 |
| Tetrachloroethene | 0.348 | 0.406 | | 16.67 | 20 |
| Chlorobenzene | 0.978 | 1.131 | 0.3 | 15.64 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1194 SAS No.: Q1194 SDG No.: Q1194

Instrument ID: MSVOA_Y Calibration Date/Time: 01/27/2025 09:06

Lab File ID: VY020936.D Init. Calib. Date(s): 01/24/2025 01/24/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 14:03 16:21

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.706 | 1.996 | | 17 | 20 |
| m/p-Xylenes | 0.653 | 0.765 | | 17.15 | 20 |
| o-Xylene | 0.610 | 0.723 | | 18.52 | 20 |
| Styrene | 1.000 | 1.197 | | 19.7 | 20 |
| Bromoform | 0.197 | 0.235 | 0.1 | 19.29 | 20 |
| Isopropylbenzene | 3.444 | 4.024 | | 16.84 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.536 | 0.613 | 0.3 | 14.37 | 20 |
| 1,3-Dichlorobenzene | 1.546 | 1.762 | | 13.97 | 20 |
| 1,4-Dichlorobenzene | 1.518 | 1.747 | | 15.09 | 20 |
| 1,2-Dichlorobenzene | 1.339 | 1.535 | | 14.64 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.080 | 0.090 | | 12.5 | 20 |
| 1,2,4-Trichlorobenzene | 0.806 | 0.951 | | 17.99 | 20 |
| 1,2,3-Trichlorobenzene | 0.677 | 0.791 | | 16.84 | 20 |
| 1,2-Dichloroethane-d4 | 0.399 | 0.429 | | 7.52 | 20 |
| Dibromofluoromethane | 0.287 | 0.316 | | 10.1 | 20 |
| Toluene-d8 | 1.113 | 1.231 | | 10.6 | 20 |
| 4-Bromofluorobenzene | 0.371 | 0.409 | | 10.24 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Sample Results: **VY020936.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020936.D
Acq On : 27 Jan 2025 09:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 01:07:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**
Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.725 | 168 | 282457 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.627 | 114 | 407197 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 343290 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.358 | 152 | 166155 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.079 | 65 | 121205 | 53.820 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 107.640% | | | |
| 35) Dibromofluoromethane | 7.652 | 113 | 128673 | 55.044 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 110.080% | | | |
| 50) Toluene-d8 | 10.121 | 98 | 501358 | 55.293 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 110.580% | | | |
| 62) 4-Bromofluorobenzene | 12.419 | 95 | 166513 | 55.179 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 110.360% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 121968 | 57.091 | ug/l | 97 |
| 3) Chloromethane | 2.080 | 50 | 93806 | 59.036 | ug/l | 100 |
| 4) Vinyl Chloride | 2.220 | 62 | 101204 | 58.439 | ug/l | 99 |
| 5) Bromomethane | 2.616 | 94 | 67224 | 57.312 | ug/l | 100 |
| 6) Chloroethane | 2.750 | 64 | 60488 | 59.535 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.080 | 101 | 215840 | 58.661 | ug/l | 100 |
| 8) Diethyl Ether | 3.470 | 74 | 65786 | 58.174 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.836 | 101 | 140381 | 57.822 | ug/l | 99 |
| 10) Methyl Iodide | 4.025 | 142 | 166096 | 57.406 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.878 | 59 | 38824 | 223.319 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.811 | 96 | 133926 | 58.412 | ug/l | 96 |
| 13) Acrolein | 3.671 | 56 | 70092 | 297.402 | ug/l | 96 |
| 14) Allyl chloride | 4.403 | 41 | 188855 | 59.015 | ug/l | 99 |
| 15) Acrylonitrile | 5.085 | 53 | 128340 | 288.714 | ug/l | 99 |
| 16) Acetone | 3.890 | 43 | 86452 | 283.333 | ug/l | 99 |
| 17) Carbon Disulfide | 4.128 | 76 | 413521 | 58.401 | ug/l | 100 |
| 18) Methyl Acetate | 4.409 | 43 | 62972 | 57.130 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.140 | 73 | 311301 | 58.620 | ug/l | 95 |
| 20) Methylene Chloride | 4.634 | 84 | 127942 | 56.380 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.140 | 96 | 142849 | 57.786 | ug/l | 99 |
| 22) Diisopropyl ether | 6.036 | 45 | 379654 | 58.981 | ug/l | 96 |
| 23) Vinyl Acetate | 5.982 | 43 | 1052754 | 295.513 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.939 | 63 | 238346 | 58.413 | ug/l | 99 |
| 25) 2-Butanone | 6.908 | 43 | 146798 | 284.017 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 6.902 | 77 | 228156 | 56.769 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.908 | 96 | 160743 | 57.617 | ug/l | 100 |
| 28) Bromochloromethane | 7.262 | 49 | 84627 | 51.533 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.280 | 42 | 100575 | 291.972 | ug/l | 99 |
| 30) Chloroform | 7.439 | 83 | 249176 | 57.699 | ug/l | 98 |
| 31) Cyclohexane | 7.719 | 56 | 222016 | 55.361 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.634 | 97 | 238705 | 56.985 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.853 | 75 | 190737 | 58.440 | ug/l | 99 |
| 37) Ethyl Acetate | 7.000 | 43 | 72114 | 56.949 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.835 | 117 | 228639 | 58.090 | ug/l | 99 |
| 39) Methylcyclohexane | 9.121 | 83 | 260292 | 58.909 | ug/l | 99 |
| 40) Benzene | 8.097 | 78 | 557786 | 58.254 | ug/l | 100 |

Sample Results: **VY020936.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020936.D
Acq On : 27 Jan 2025 09:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 01:07:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**
Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.237 | 41 | 38030 | 56.852 ug/l | 96 |
| 42) 1,2-Dichloroethane | 8.170 | 62 | 139282 | 58.460 ug/l | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 141459 | 58.911 ug/l | 100 |
| 44) Trichloroethene | 8.877 | 130 | 150917 | 58.016 ug/l | 99 |
| 45) 1,2-Dichloropropane | 9.158 | 63 | 123414 | 58.391 ug/l | 100 |
| 46) Dibromomethane | 9.243 | 93 | 70572 | 58.732 ug/l | 100 |
| 47) Bromodichloromethane | 9.438 | 83 | 185325 | 57.966 ug/l | 96 |
| 48) Methyl methacrylate | 9.231 | 41 | 67003 | 59.152 ug/l | 99 |
| 49) 1,4-Dioxane | 9.249 | 88 | 13991 | 1130.869 ug/l | 91 |
| 51) 4-Methyl-2-Pentanone | 10.011 | 43 | 353760 | 292.180 ug/l | 99 |
| 52) Toluene | 10.182 | 92 | 362533 | 58.871 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.408 | 75 | 172755 | 58.931 ug/l | 98 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 205363 | 58.669 ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 10.584 | 97 | 94633 | 58.264 ug/l | 96 |
| 56) Ethyl methacrylate | 10.450 | 69 | 129135 | 60.666 ug/l | 98 |
| 57) 1,3-Dichloropropane | 10.731 | 76 | 161731 | 58.615 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.725 | 63 | 282944 | 292.868 ug/l | 100 |
| 59) 2-Hexanone | 10.773 | 43 | 233922 | 300.455 ug/l | 100 |
| 60) Dibromochloromethane | 10.926 | 129 | 133374 | 58.346 ug/l | 98 |
| 61) 1,2-Dibromoethane | 11.029 | 107 | 88558 | 57.005 ug/l | 99 |
| 64) Tetrachloroethene | 10.658 | 164 | 139504 | 58.394 ug/l | 99 |
| 65) Chlorobenzene | 11.456 | 112 | 388163 | 57.822 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.529 | 131 | 136923 | 57.398 ug/l | 99 |
| 67) Ethyl Benzene | 11.529 | 91 | 685355 | 58.508 ug/l | 100 |
| 68) m/p-Xylenes | 11.639 | 106 | 525455 | 117.148 ug/l | 99 |
| 69) o-Xylene | 11.968 | 106 | 248101 | 59.216 ug/l | 100 |
| 70) Styrene | 11.980 | 104 | 410959 | 59.850 ug/l | 99 |
| 71) Bromoform | 12.145 | 173 | 80711 | 59.750 ug/l # | 99 |
| 73) Isopropylbenzene | 12.267 | 105 | 668680 | 58.433 ug/l | 100 |
| 74) N-amyl acetate | 12.084 | 43 | 120037 | 58.949 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.517 | 83 | 101834 | 57.195 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.572 | 75 | 76605m | 65.208 ug/l | |
| 77) Bromobenzene | 12.547 | 156 | 151827 | 56.601 ug/l | 98 |
| 78) n-propylbenzene | 12.608 | 91 | 781507 | 58.629 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.694 | 91 | 436598 | 57.750 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.749 | 105 | 539872 | 58.713 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.316 | 75 | 36438 | 59.924 ug/l | 98 |
| 82) 4-Chlorotoluene | 12.791 | 91 | 451910 | 58.537 ug/l | 100 |
| 83) tert-Butylbenzene | 13.011 | 119 | 497809 | 58.695 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.053 | 105 | 529539 | 58.499 ug/l | 99 |
| 85) sec-Butylbenzene | 13.188 | 105 | 712269 | 58.904 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.303 | 119 | 603344 | 59.059 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.303 | 146 | 292758 | 56.994 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.383 | 146 | 290326 | 57.538 ug/l | 100 |
| 89) n-Butylbenzene | 13.633 | 91 | 538373 | 59.745 ug/l | 100 |
| 90) Hexachloroethane | 13.895 | 117 | 118009 | 58.150 ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 13.675 | 146 | 255038 | 57.308 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.291 | 75 | 14893 | 55.680 ug/l | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.937 | 180 | 158069 | 59.043 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 103632 | 56.578 ug/l | 98 |
| 95) Naphthalene | 15.157 | 128 | 253984 | 59.162 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.346 | 180 | 131457 | 58.446 ug/l | 100 |

Sample Results: **VY020936.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020936.D
Acq On : 27 Jan 2025 09:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

Quant Time: Jan 28 01:07:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

Sample Results: **VY020936.D**

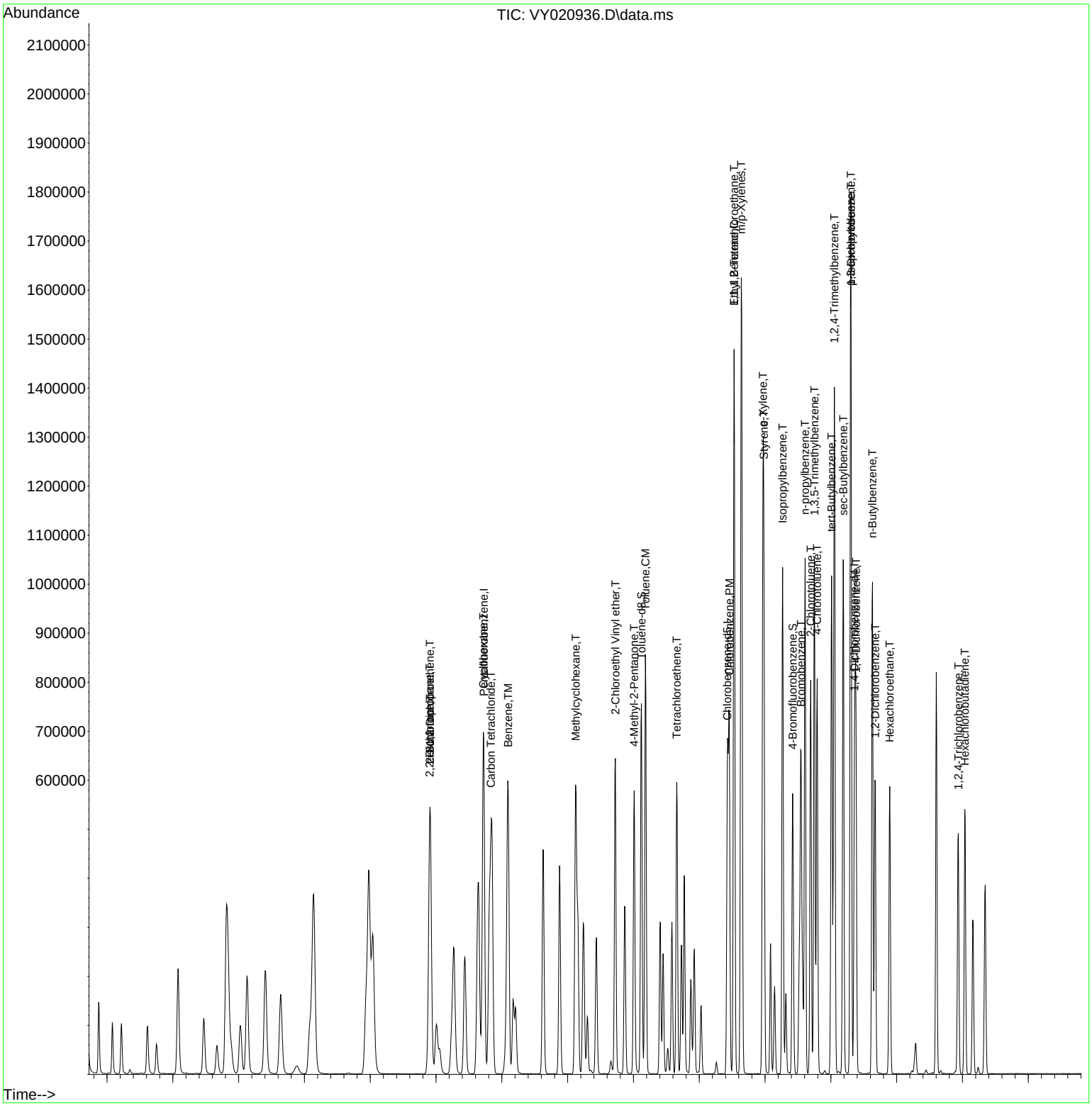
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020936.D
Acq On : 27 Jan 2025 09:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

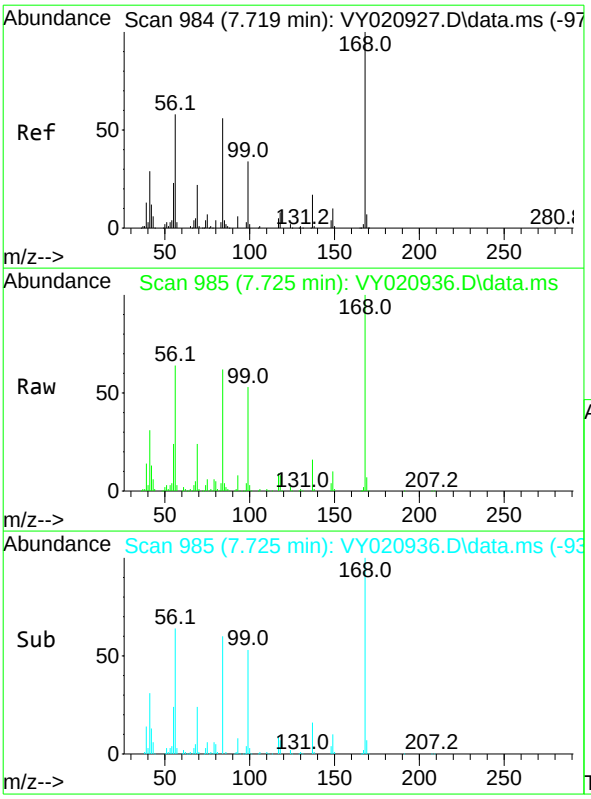
Quant Time: Jan 28 01:07:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.725 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

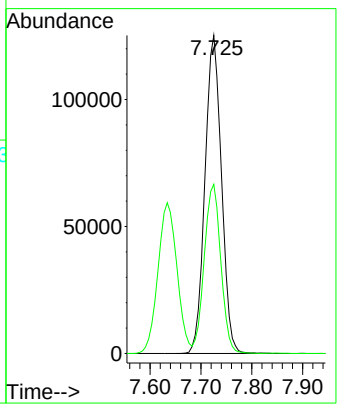
Tgt Ion:168 Resp: 282457

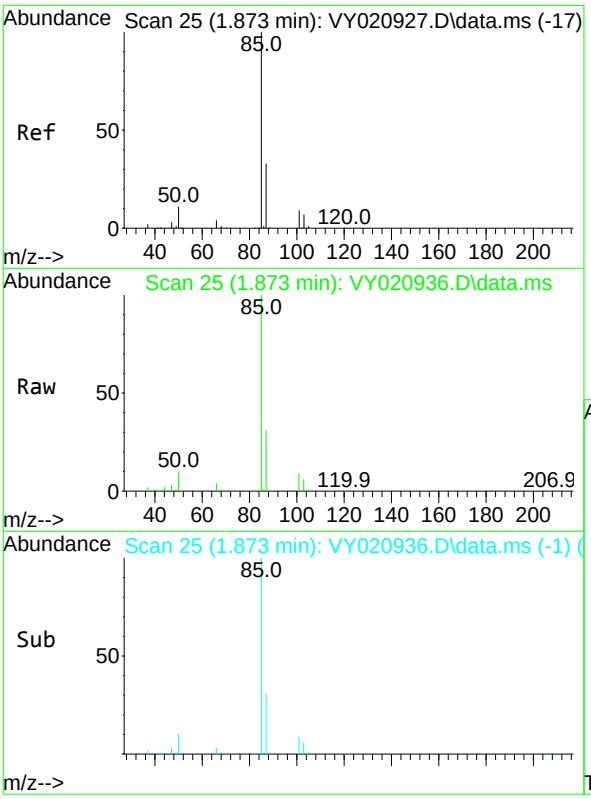
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.1 | 43.0 | 64.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

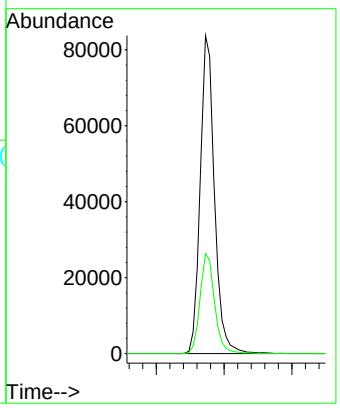


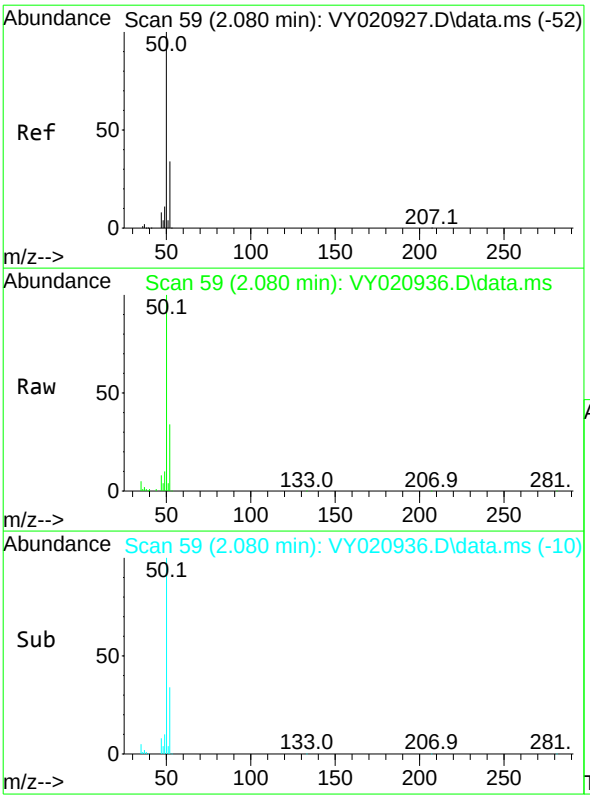




#2
Dichlorodifluoromethane
Concen: 57.091 ug/l
RT: 1.873 min Scan# 25
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 85 Resp: 121968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.4 | 16.6 | 49.8 |






#3
Chloromethane
Concen: 59.036 ug/l
RT: 2.080 min Scan# 59
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

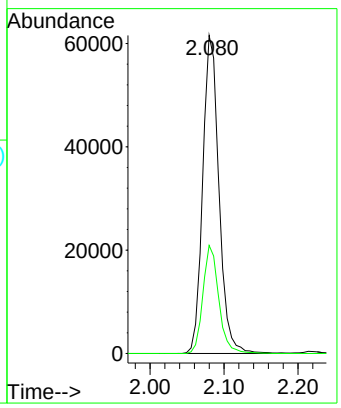
Tgt Ion: 50 Resp: 93806

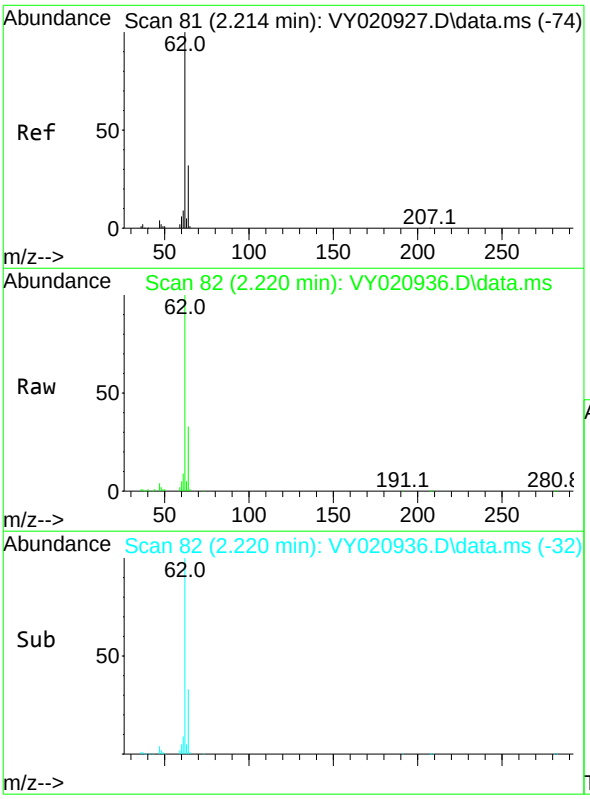
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.0 | 27.4 | 41.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

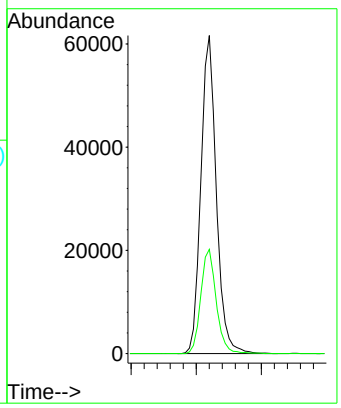


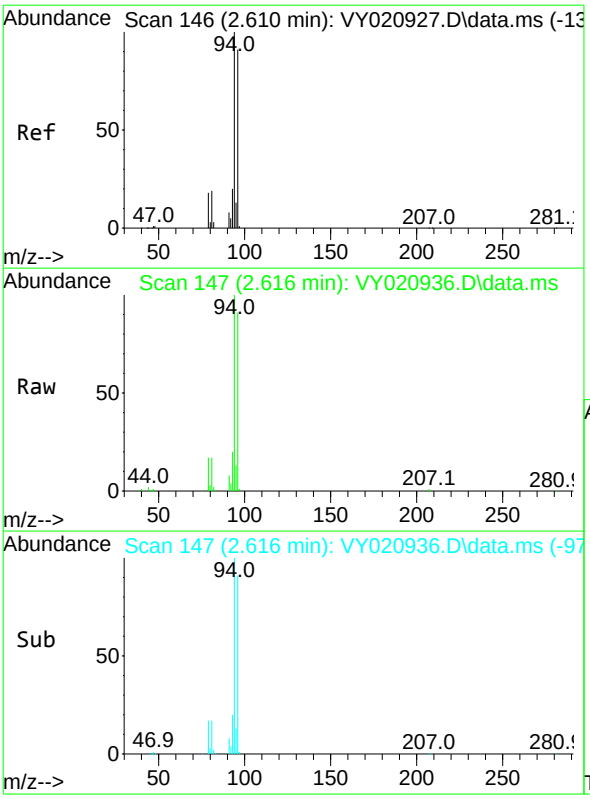




#4
Vinyl Chloride
Concen: 58.439 ug/l
RT: 2.220 min Scan# 82
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 62 Resp: 101204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.8 | 25.7 | 38.5 |






#5
Bromomethane
Concen: 57.312 ug/l
RT: 2.616 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

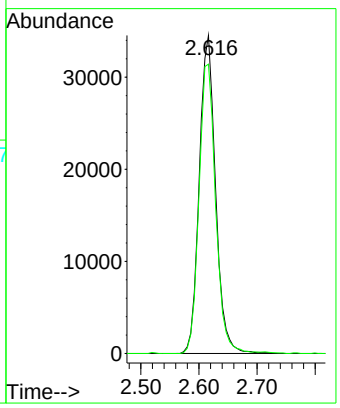
Tgt Ion: 94 Resp: 67224

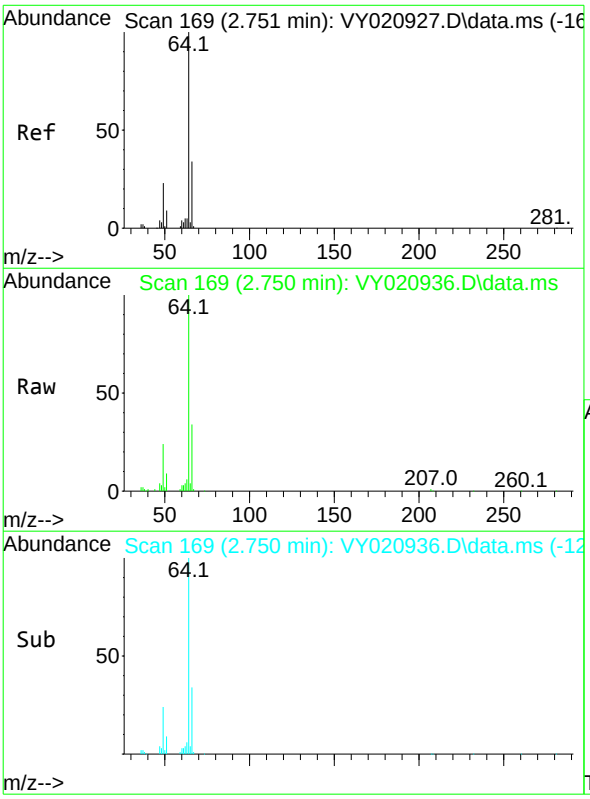
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.0 | 72.6 | 109.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

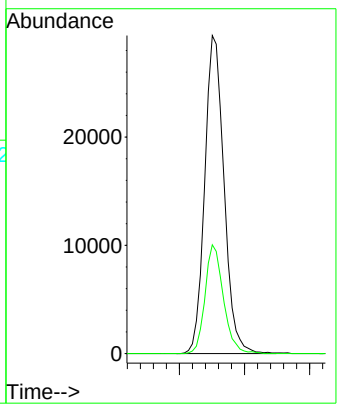


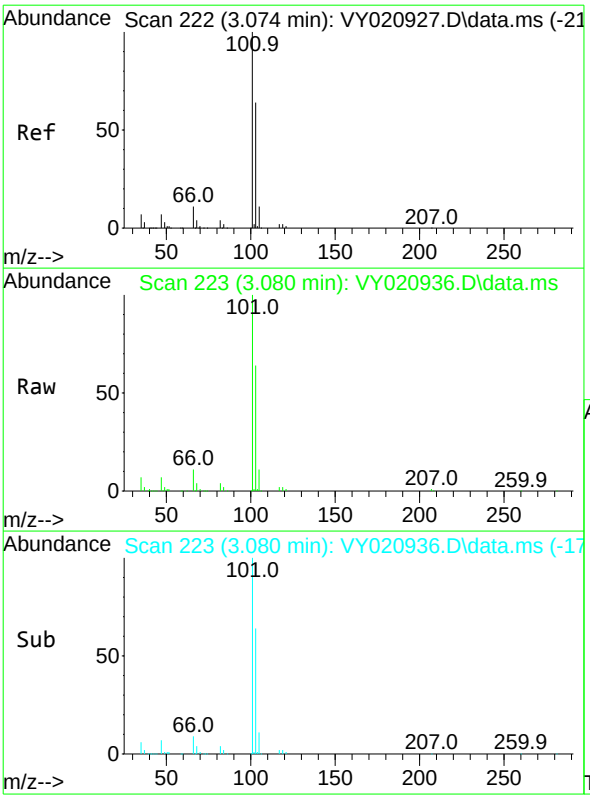




#6
Chloroethane
Concen: 59.535 ug/l
RT: 2.750 min Scan# 169
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 64 Resp: 60488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.2 | 26.9 | 40.3 |






#7
Trichlorofluoromethane
Concen: 58.661 ug/l
RT: 3.080 min Scan# 22
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

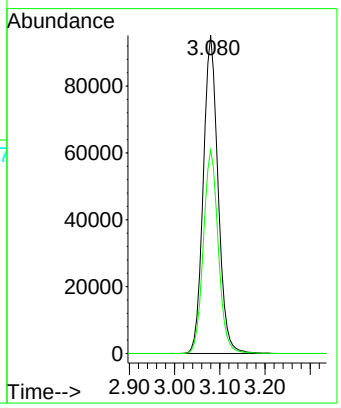
Tgt Ion:101 Resp: 215840

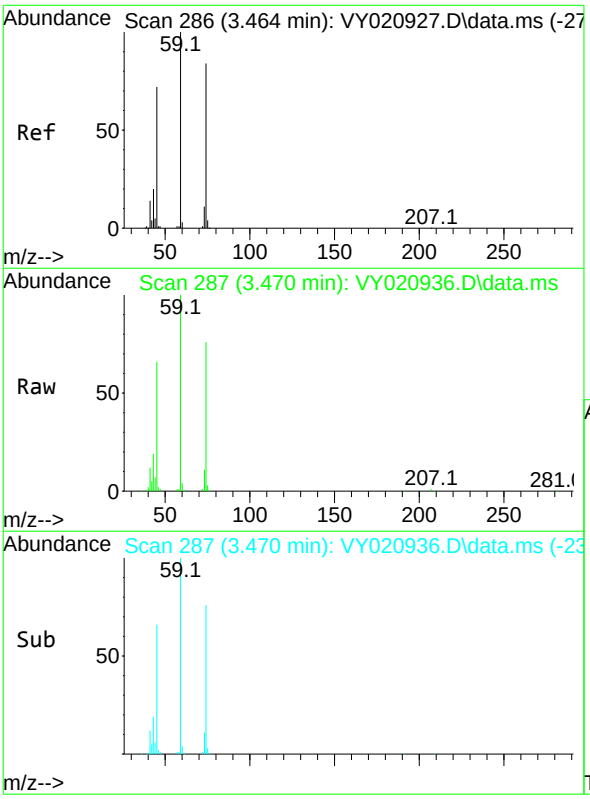
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.0 | 51.0 | 76.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

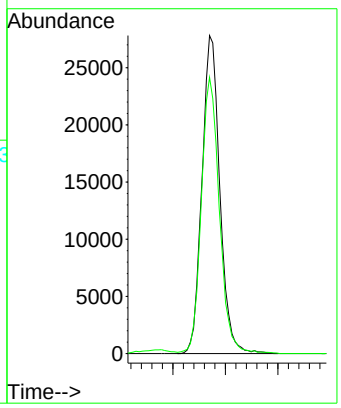


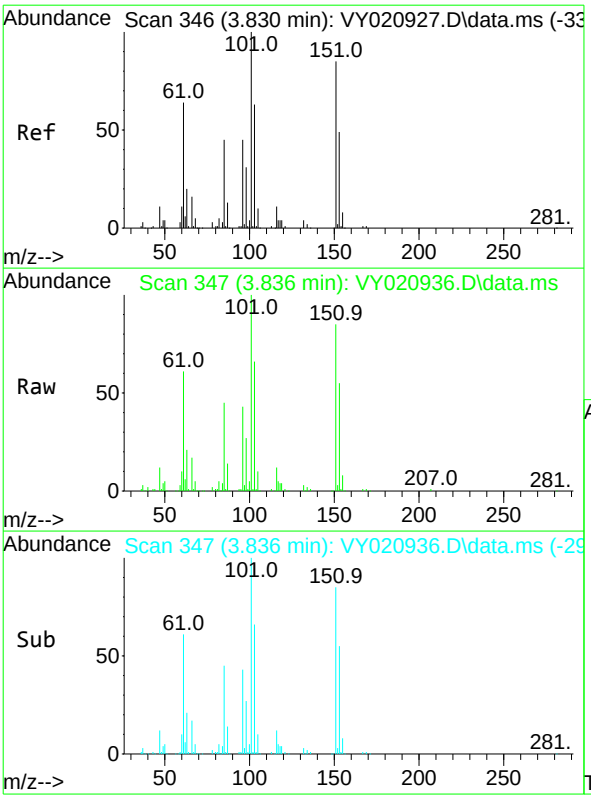




#8
Diethyl Ether
Concen: 58.174 ug/l
RT: 3.470 min Scan# 287
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 74 Resp: 65786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.0 | 45.1 | 135.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 57.822 ug/l
RT: 3.836 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

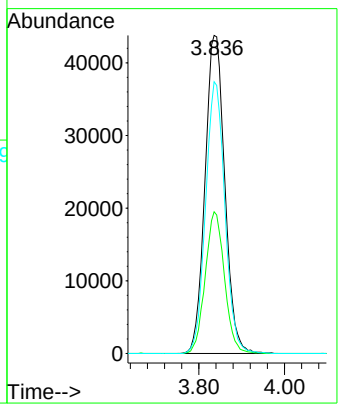
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

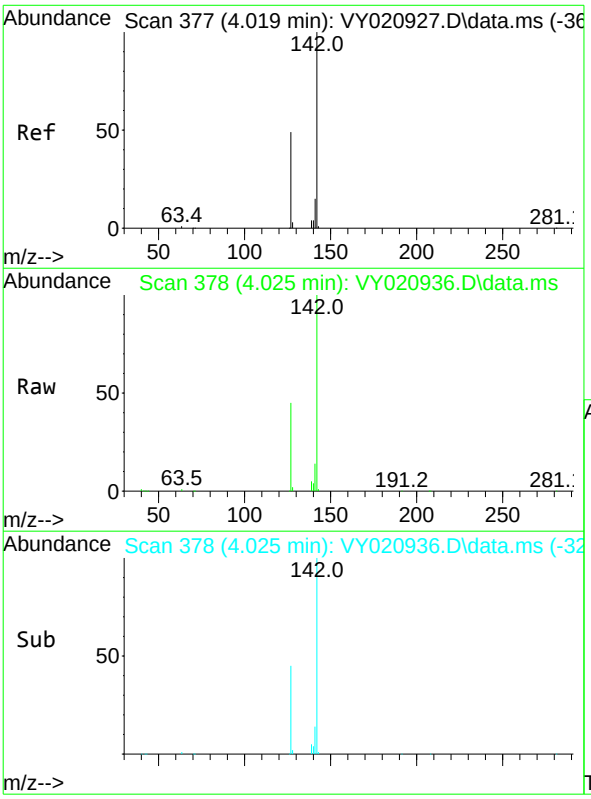
Tgt Ion:101 Resp: 140381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.4 | 35.4 | 53.2 |
| 151 | 83.3 | 66.3 | 99.5 |

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

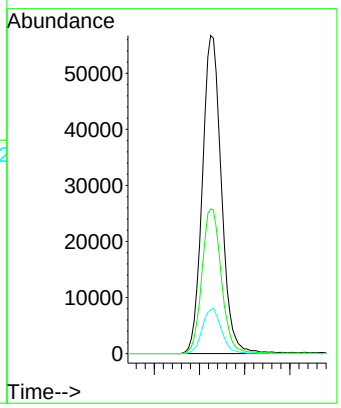


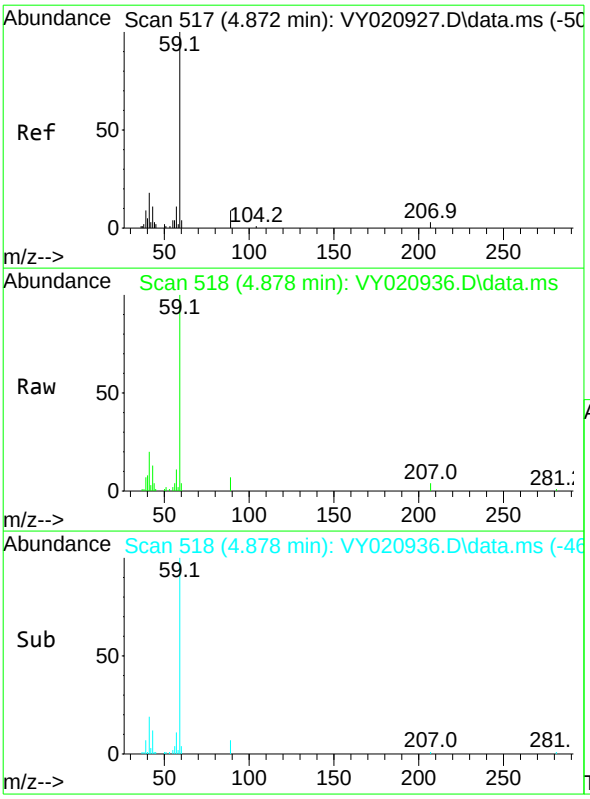




#10
Methyl Iodide
Concen: 57.406 ug/l
RT: 4.025 min Scan# 378
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:142 Resp: 166096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.5 | 37.3 | 55.9 |
| 141 | 14.2 | 11.4 | 17.2 |






#11
Tert butyl alcohol
Concen: 223.319 ug/l
RT: 4.878 min Scan# 51
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

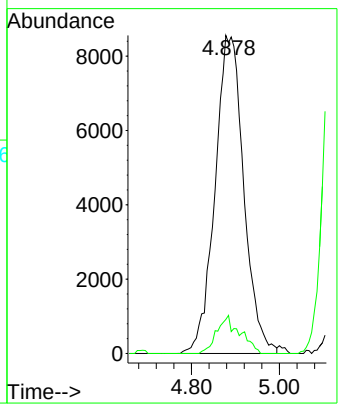
Tgt Ion: 59 Resp: 38824

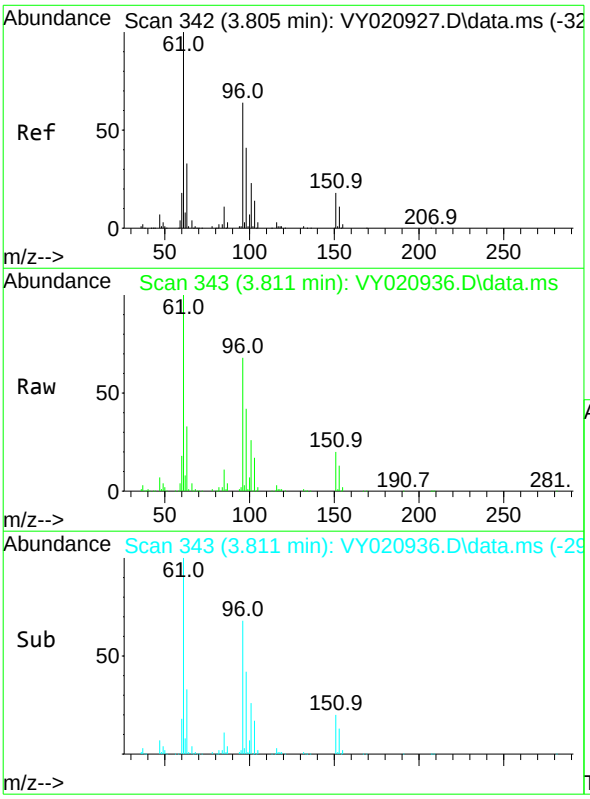
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.6 | 7.7 | 11.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

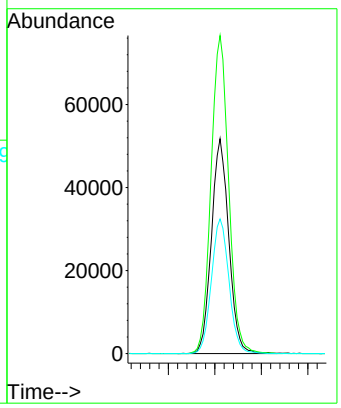


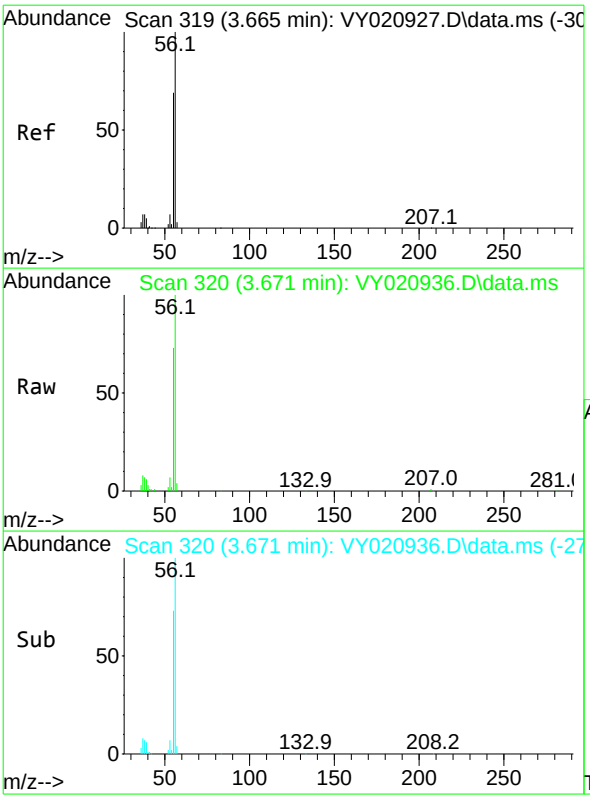




#12
1,1-Dichloroethene
Concen: 58.412 ug/l
RT: 3.811 min Scan# 343
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 96 Resp: 133926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 148.0 | 124.5 | 186.7 |
| 98 | 62.7 | 50.5 | 75.7 |






#13
Acrolein
Concen: 297.402 ug/l
RT: 3.671 min Scan# 32
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

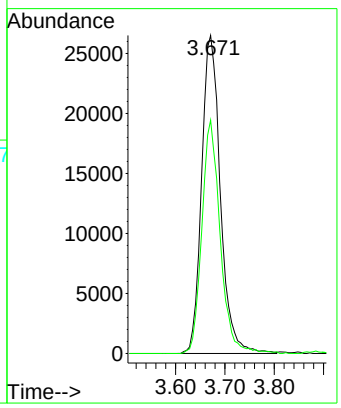
Tgt Ion: 56 Resp: 70092

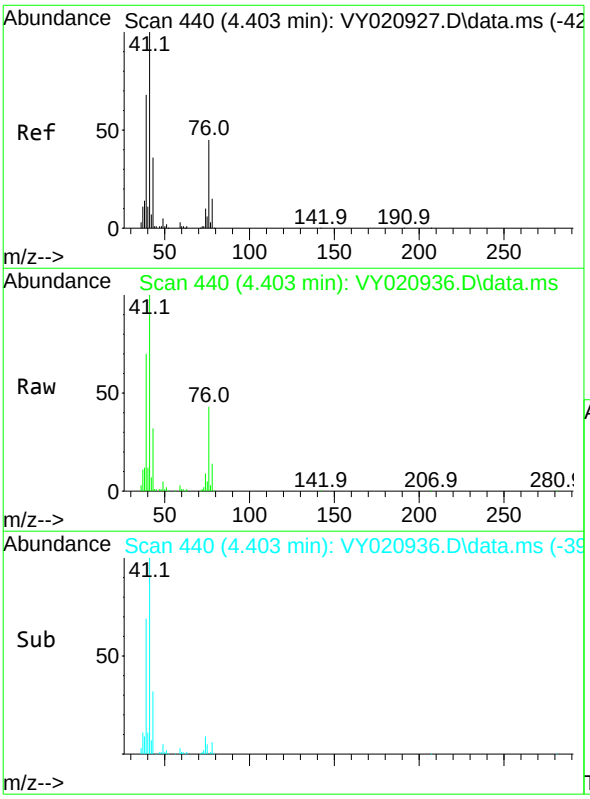
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.6 | 54.6 | 81.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

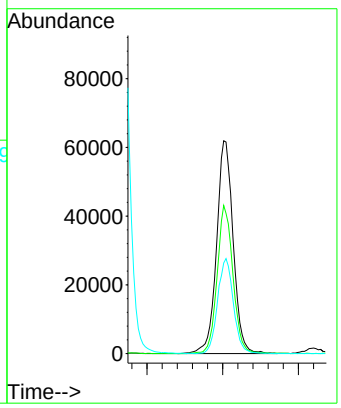


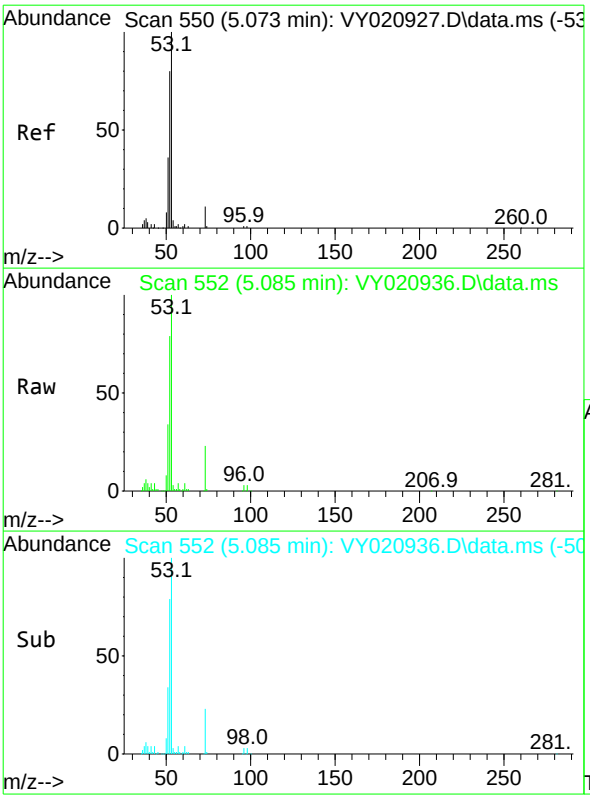




#14
Allyl chloride
Concen: 59.015 ug/l
RT: 4.403 min Scan# 440
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 41 Resp: 188855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.1 | 53.8 | 80.6 |
| 76 | 42.4 | 34.2 | 51.4 |






#15
Acrylonitrile
Concen: 288.714 ug/l
RT: 5.085 min Scan# 55
Delta R.T. 0.012 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

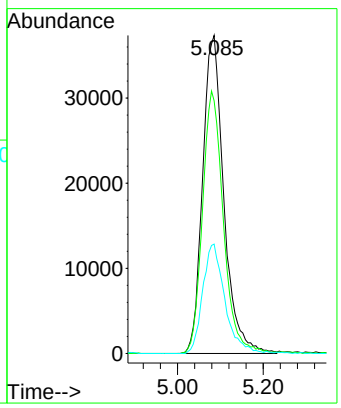
Tgt Ion: 53 Resp: 128340

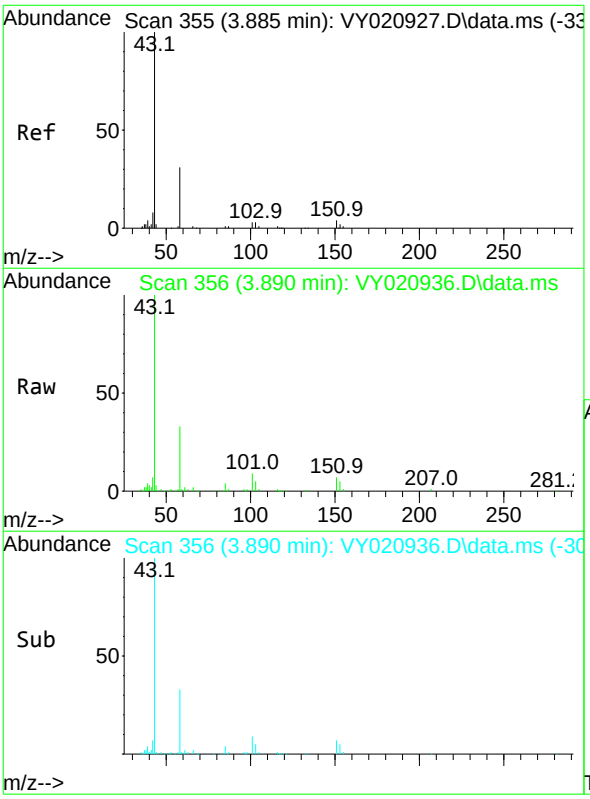
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.4 | 64.5 | 96.7 |
| 51 | 35.9 | 28.9 | 43.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

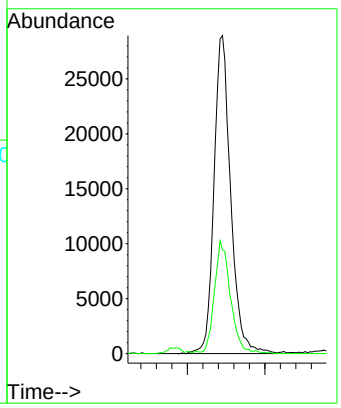


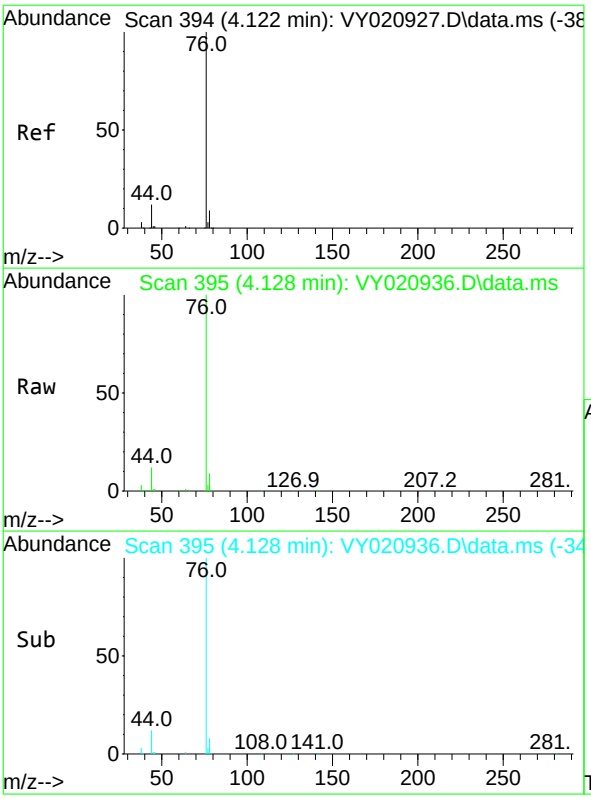




#16
Acetone
Concen: 283.333 ug/l
RT: 3.890 min Scan# 356
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 43 Resp: 86452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.6 | 25.6 | 38.4 |






#17
Carbon Disulfide
Concen: 58.401 ug/l
RT: 4.128 min Scan# 39
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

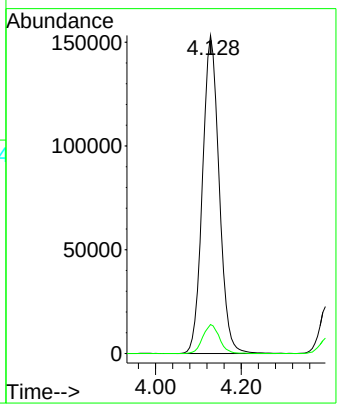
Tgt Ion: 76 Resp: 413521

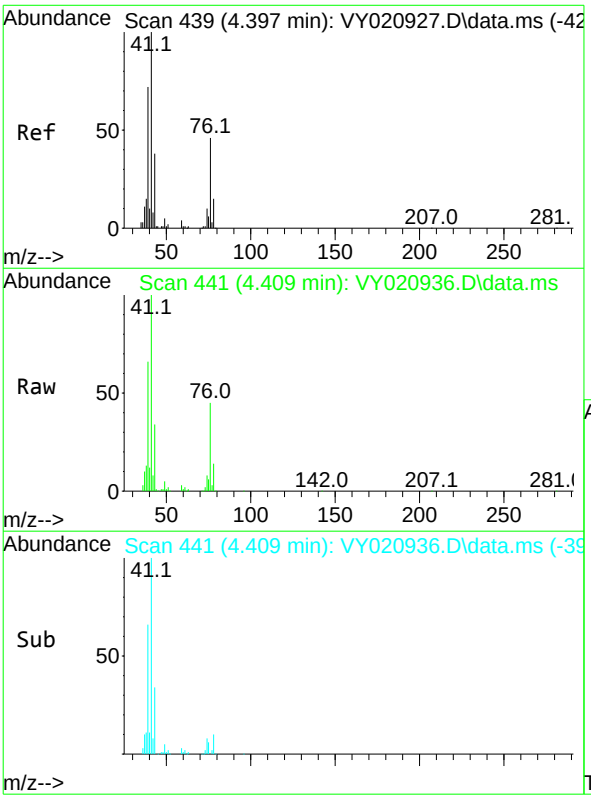
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.2 | 10.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

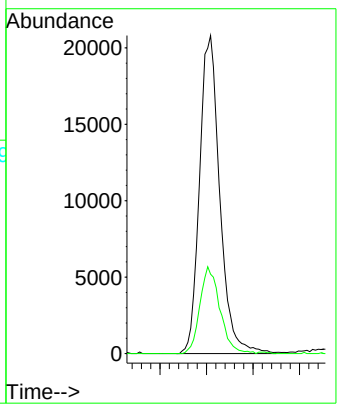


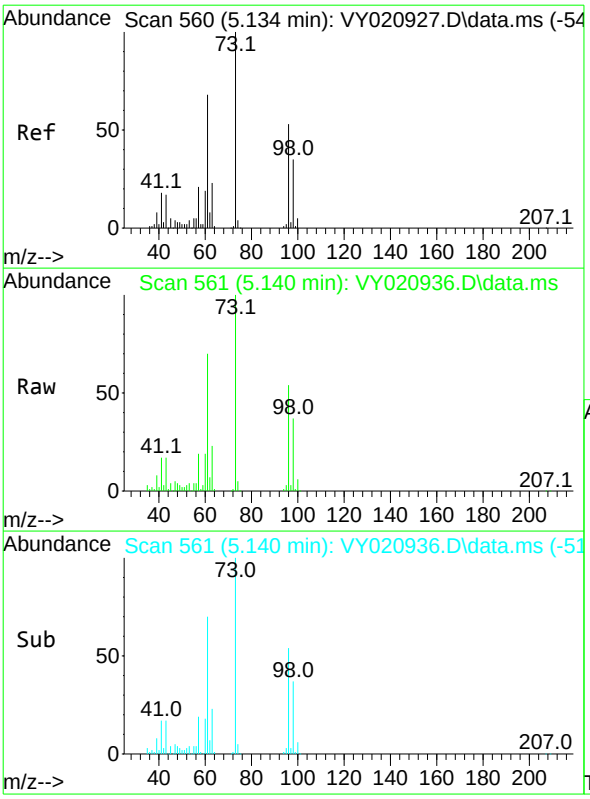




#18
Methyl Acetate
Concen: 57.130 ug/l
RT: 4.409 min Scan# 441
Delta R.T. 0.012 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 43 Resp: 62972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.9 | 21.0 | 31.6 |






#19
Methyl tert-butyl Ether
Concen: 58.620 ug/l
RT: 5.140 min Scan# 56
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

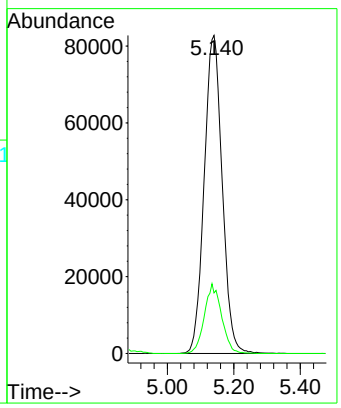
Tgt Ion: 73 Resp: 311301

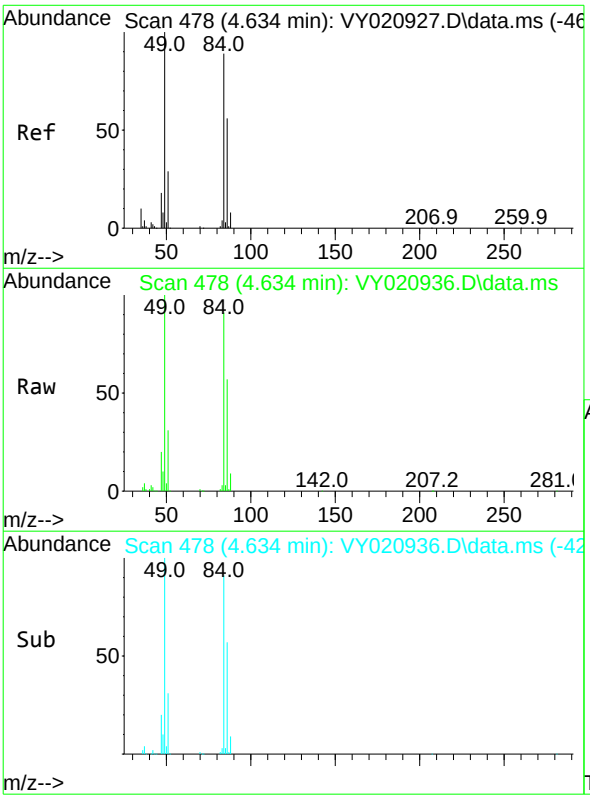
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.0 | 17.0 | 25.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

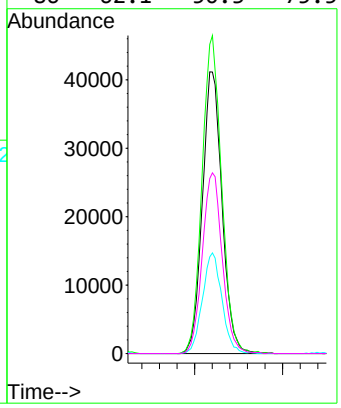


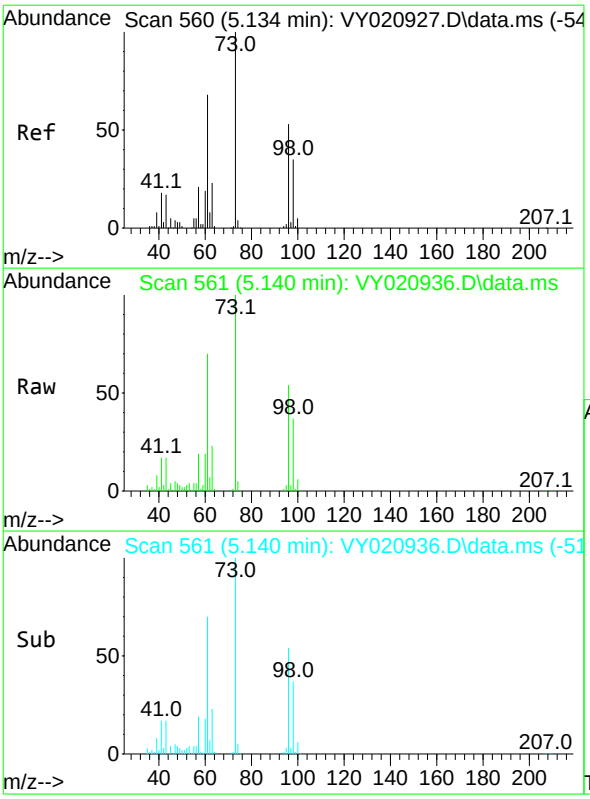




#20
Methylene Chloride
Concen: 56.380 ug/l
RT: 4.634 min Scan# 478
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 84 Resp: 127942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 109.8 | 90.3 | 135.5 |
| 51 | 34.3 | 26.6 | 39.8 |
| 86 | 62.1 | 50.3 | 75.5 |






#21
trans-1,2-Dichloroethene
Concen: 57.786 ug/l
RT: 5.140 min Scan# 56
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 96 Resp: 142849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 128.5 | 102.4 | 153.6 |
| 98 | 67.6 | 52.0 | 78.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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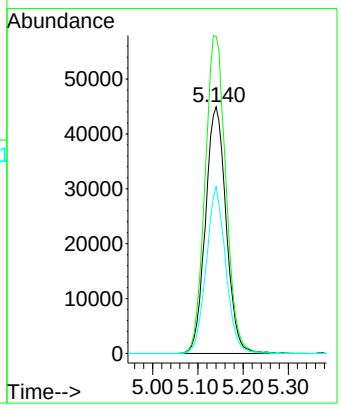
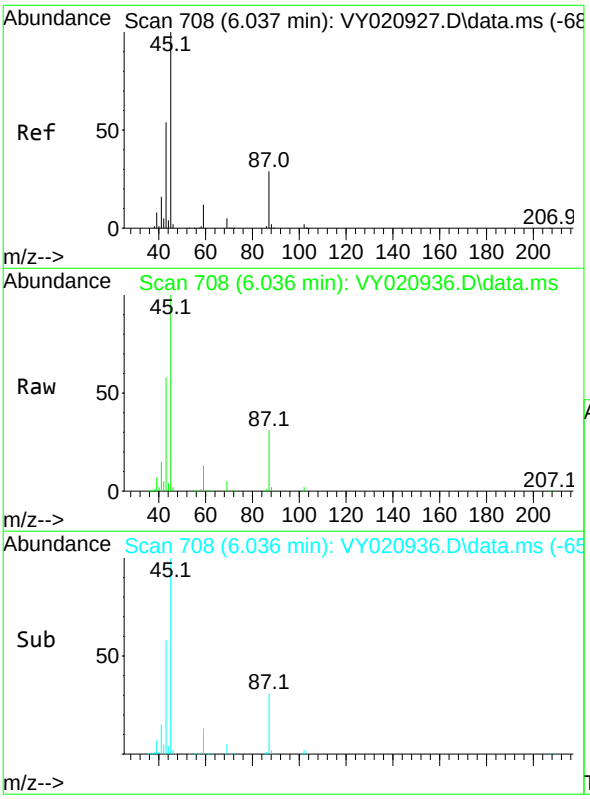
Supervised By :Semsettin Yesilyurt 01/28/2025

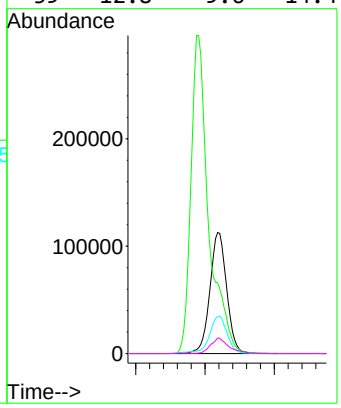


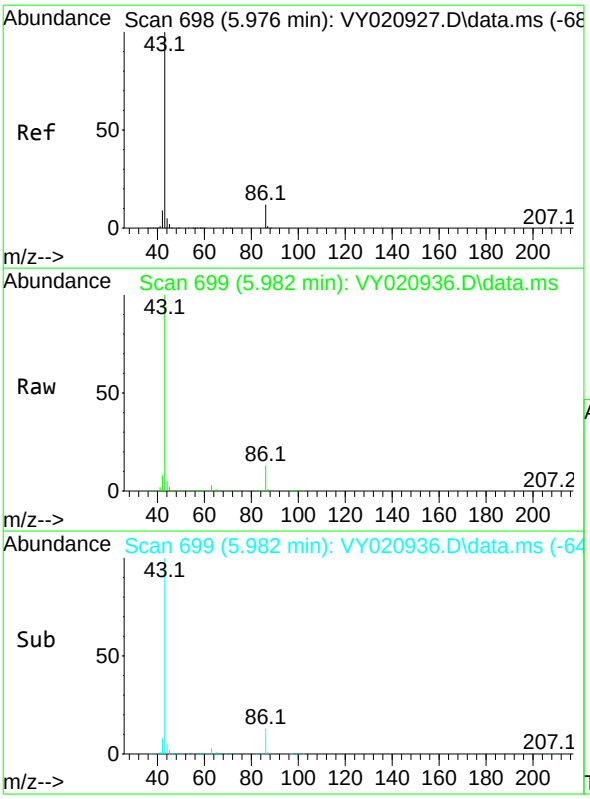




#22
Diisopropyl ether
Concen: 58.981 ug/l
RT: 6.036 min Scan# 708
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 45 Resp: 379654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 58.1 | 43.2 | 64.8 |
| 87 | 30.7 | 23.4 | 35.0 |
| 59 | 12.8 | 9.6 | 14.4 |






#23
Vinyl Acetate
Concen: 295.513 ug/l
RT: 5.982 min Scan# 69
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 43 Resp: 1052754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.5 | 9.8 | 14.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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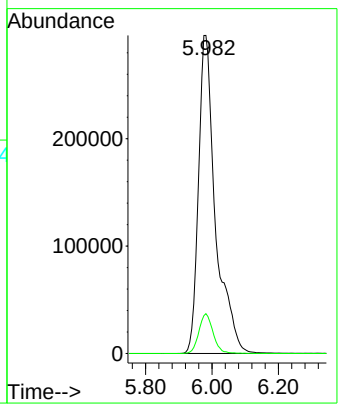
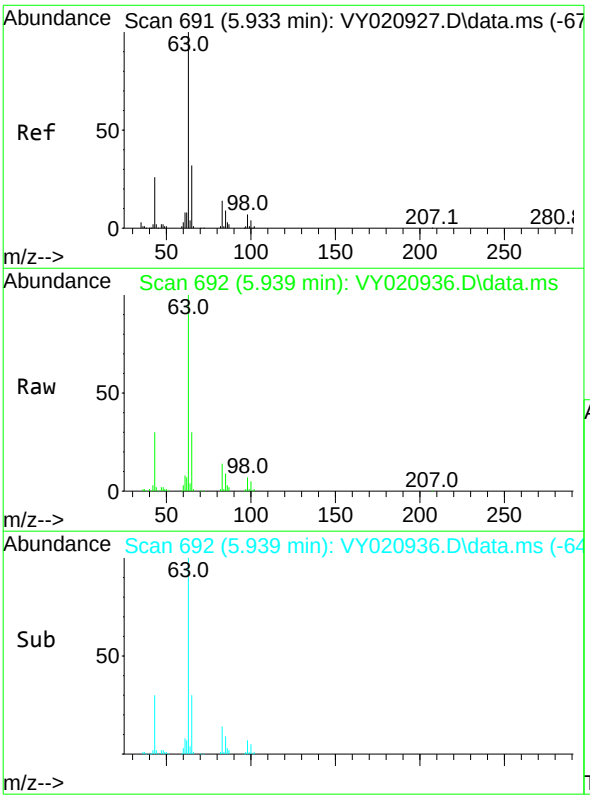
Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

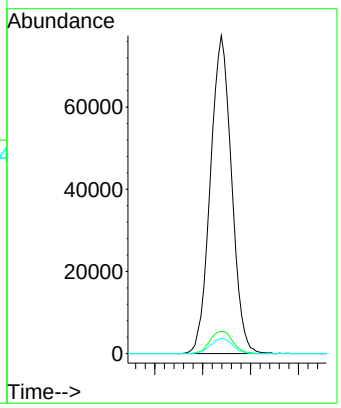


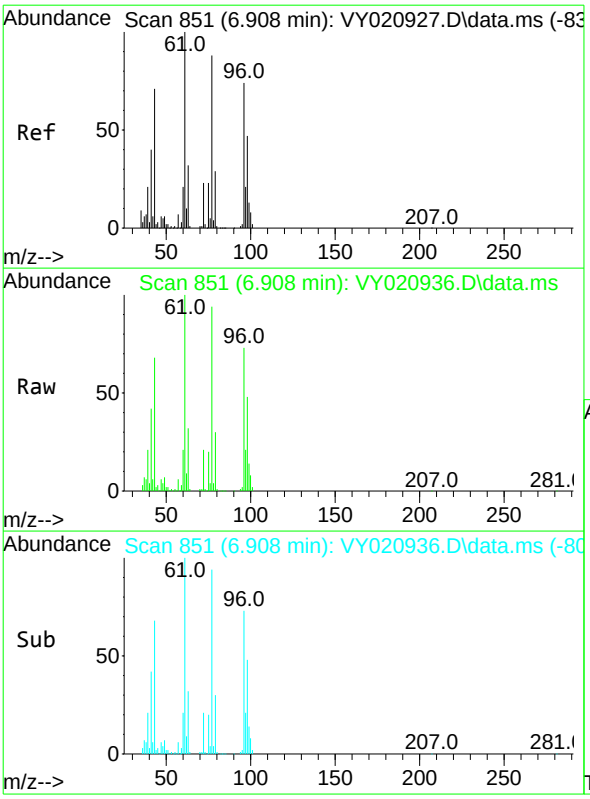




#24
1,1-Dichloroethane
Concen: 58.413 ug/l
RT: 5.939 min Scan# 692
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 63 Resp: 238346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.0 | 3.7 | 11.1 |
| 100 | 4.8 | 2.3 | 6.8 |






#25
2-Butanone
Concen: 284.017 ug/l
RT: 6.908 min Scan# 85
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 43 Resp: 146798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.3 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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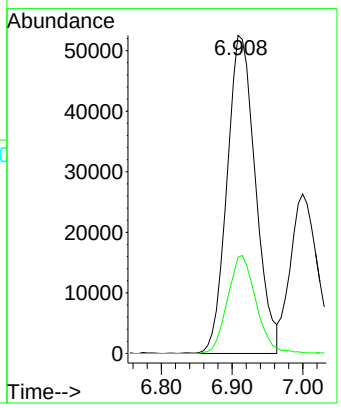
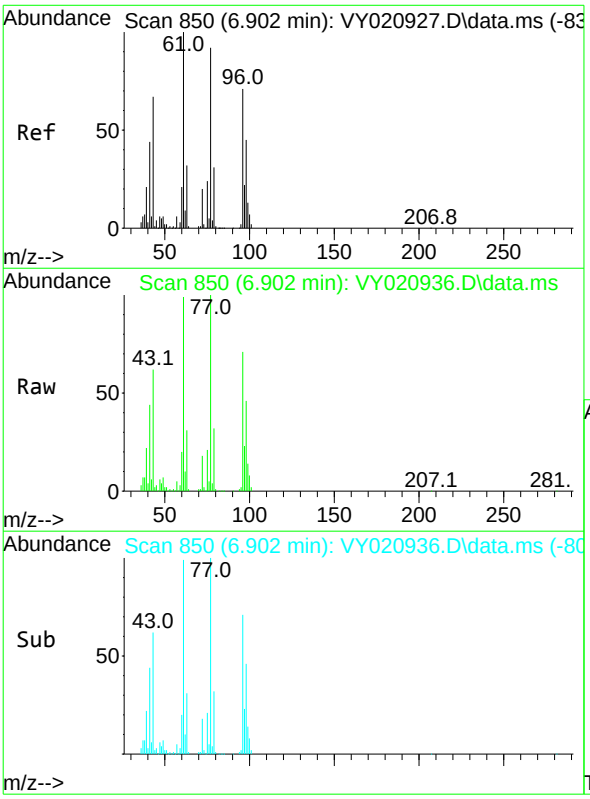
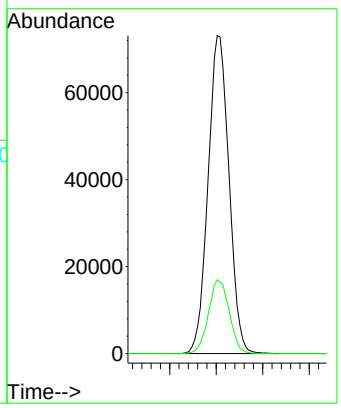


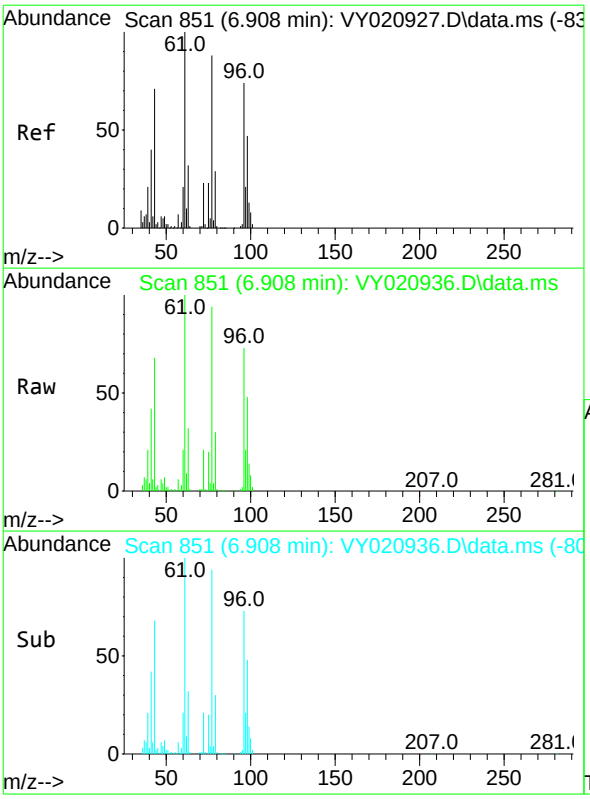




#26
2,2-Dichloropropane
Concen: 56.769 ug/l
RT: 6.902 min Scan# 850
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 77 Resp: 228156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.1 | 11.7 | 35.1 |






#27
cis-1,2-Dichloroethene
Concen: 57.617 ug/l
RT: 6.908 min Scan# 85
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

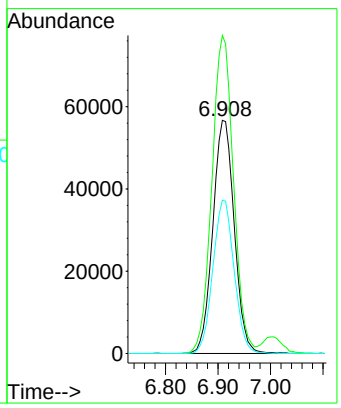
Tgt Ion: 96 Resp: 160743

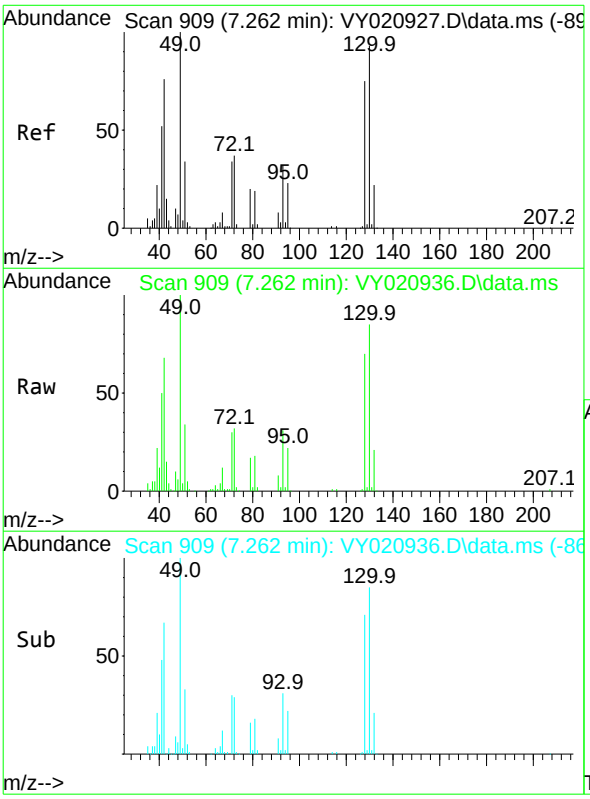
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.1 | 0.0 | 275.2 |
| 98 | 65.3 | 0.0 | 129.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

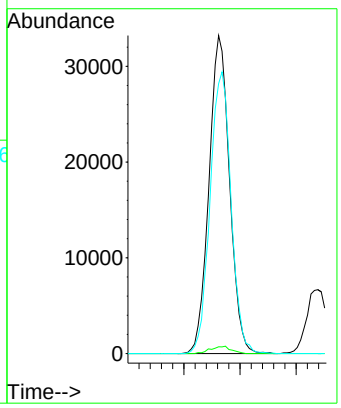


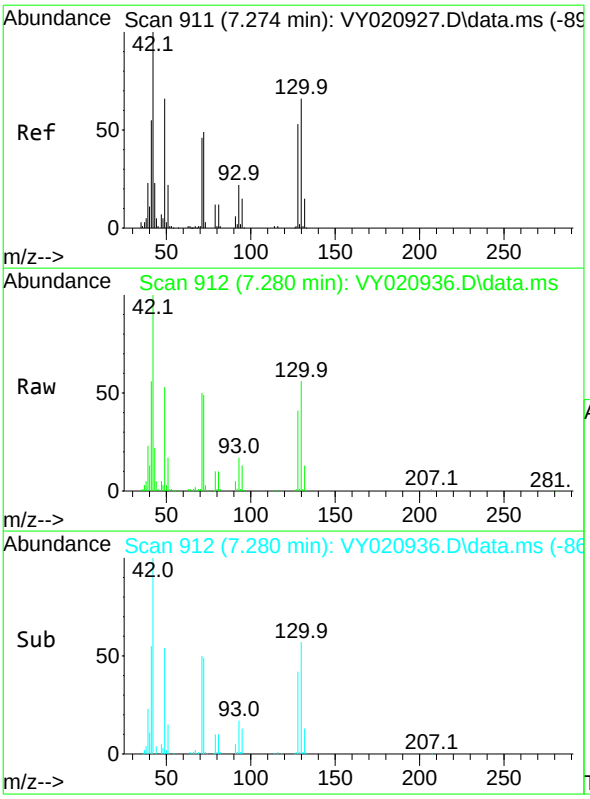




#28
Bromochloromethane
Concen: 51.533 ug/l
RT: 7.262 min Scan# 909
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 49 Resp: 84627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.3 | 0.0 | 4.6 |
| 130 | 90.4 | 72.6 | 109.0 |






#29
Tetrahydrofuran
Concen: 291.972 ug/l
RT: 7.280 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 42 Resp: 100575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.6 | 38.8 | 58.2 |
| 71 | 46.4 | 36.4 | 54.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
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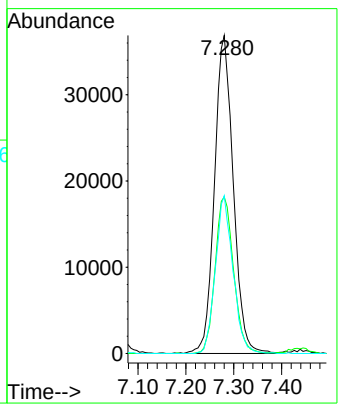
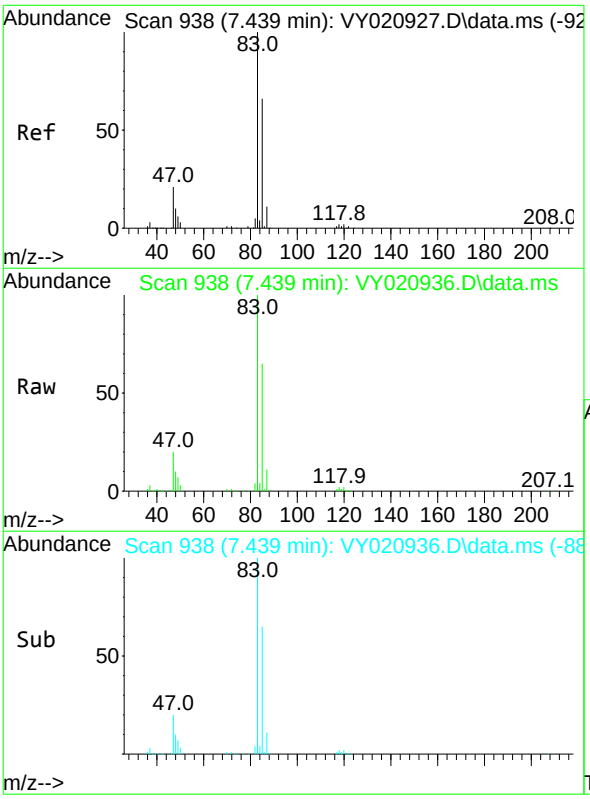
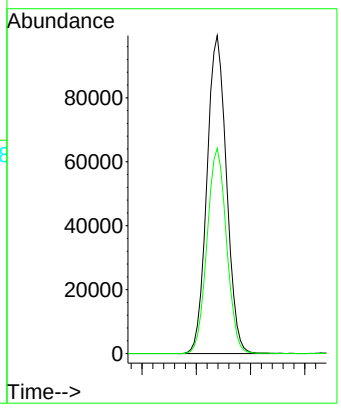


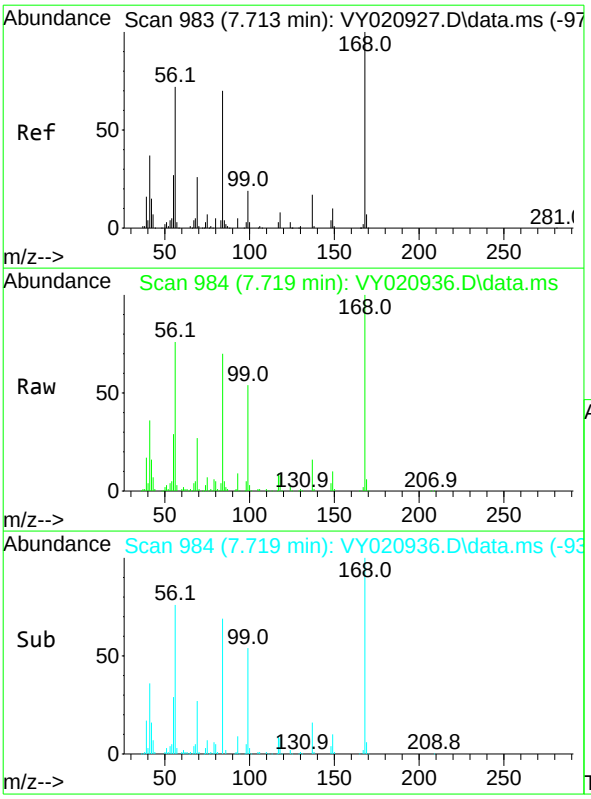




#30
Chloroform
Concen: 57.699 ug/l
RT: 7.439 min Scan# 938
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 83 Resp: 249176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 53.0 | 79.4 |






#31
Cyclohexane
Concen: 55.361 ug/l
RT: 7.719 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 56 Resp: 222016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.5 | 28.7 | 43.1 |
| 84 | 91.5 | 77.4 | 116.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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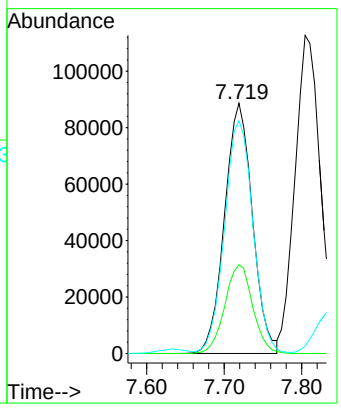
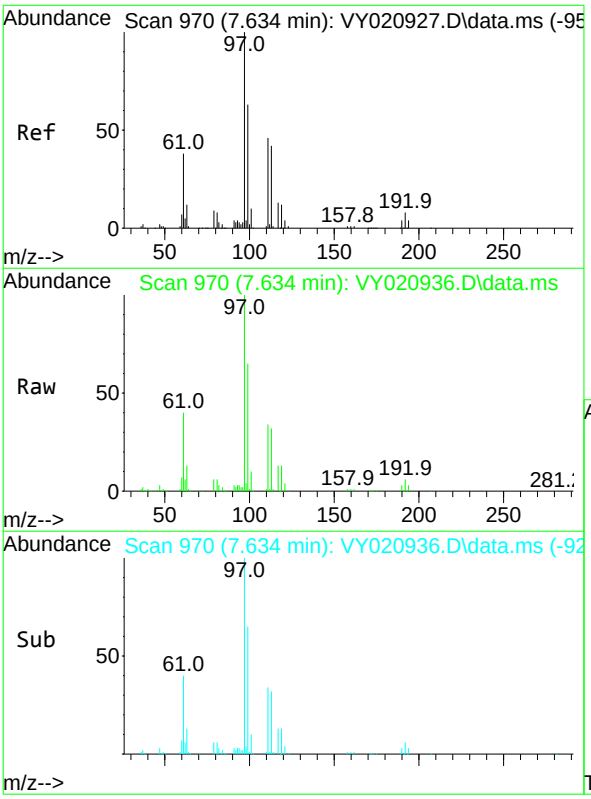
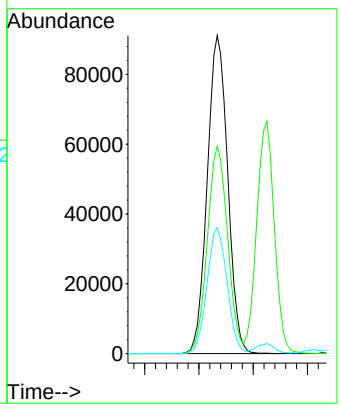


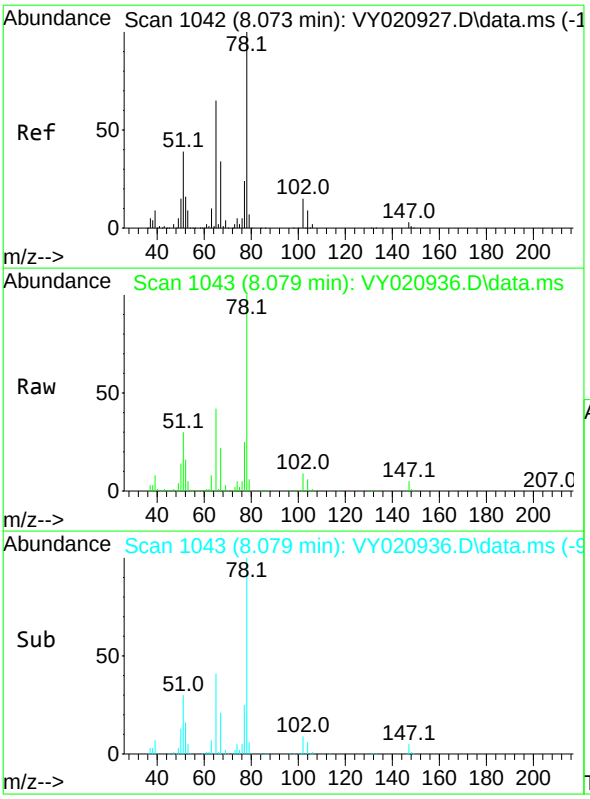




#32
1,1,1-Trichloroethane
Concen: 56.985 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 97 Resp: 238705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.9 | 51.7 | 77.5 |
| 61 | 38.9 | 30.8 | 46.2 |






#33
1,2-Dichloroethane-d4
Concen: 53.820 ug/l
RT: 8.079 min Scan# 10
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 65 Resp: 121205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.7 | 0.0 | 105.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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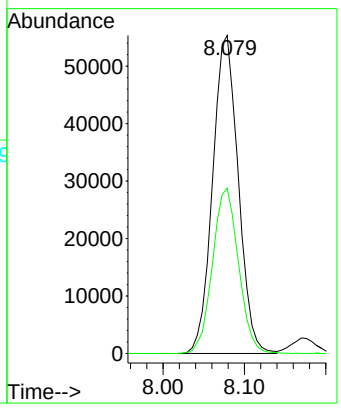
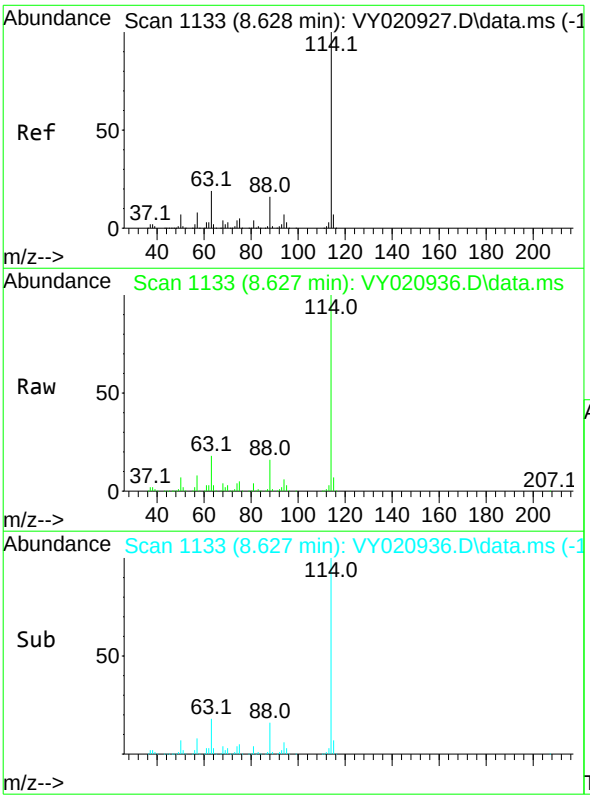
Supervised By :Semsettin Yesilyurt 01/28/2025

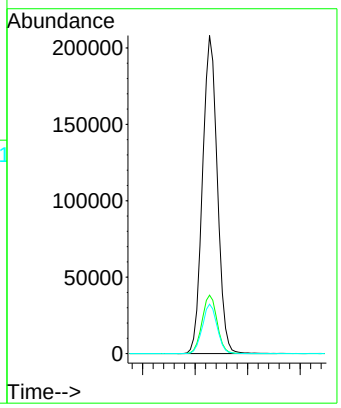


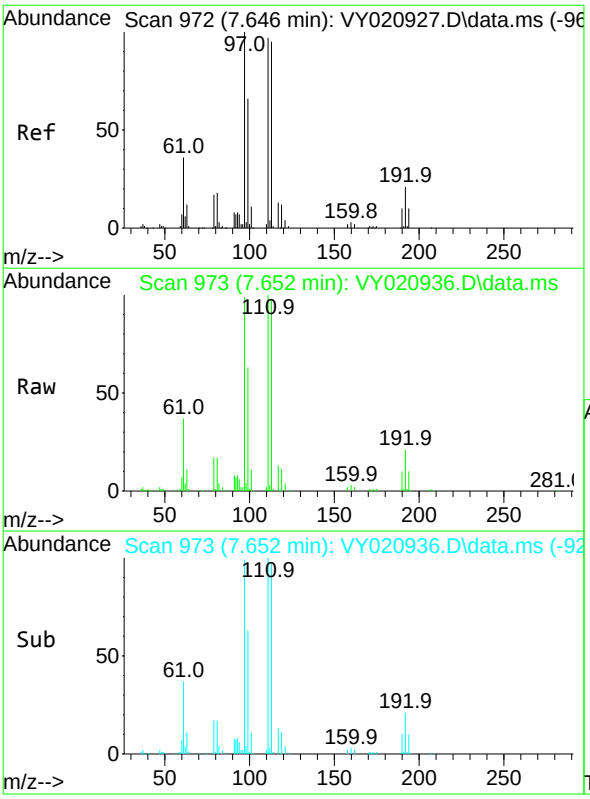




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.627 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:114 Resp: 407197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.4 | 0.0 | 38.4 |
| 88 | 15.5 | 0.0 | 31.6 |






#35
Dibromofluoromethane
Concen: 55.044 ug/l
RT: 7.652 min Scan# 97
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

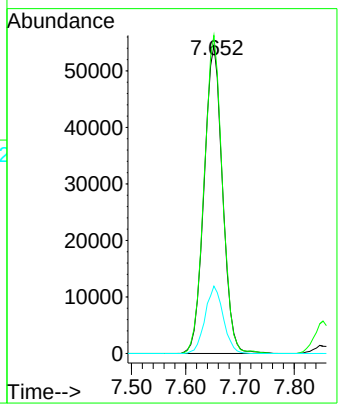
Tgt Ion:113 Resp: 128673

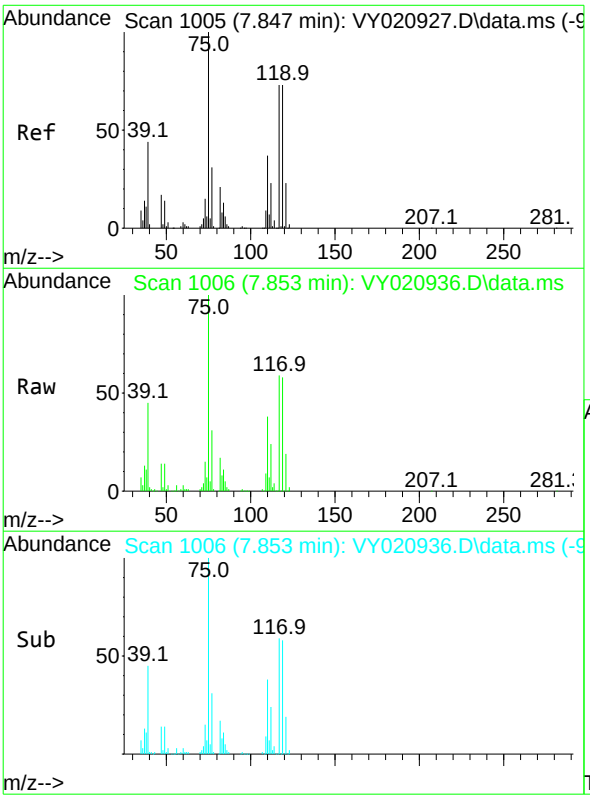
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.9 | 82.3 | 123.5 |
| 192 | 21.5 | 17.4 | 26.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

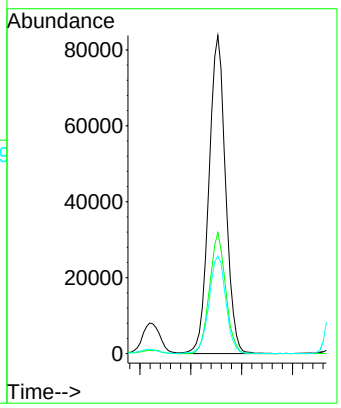


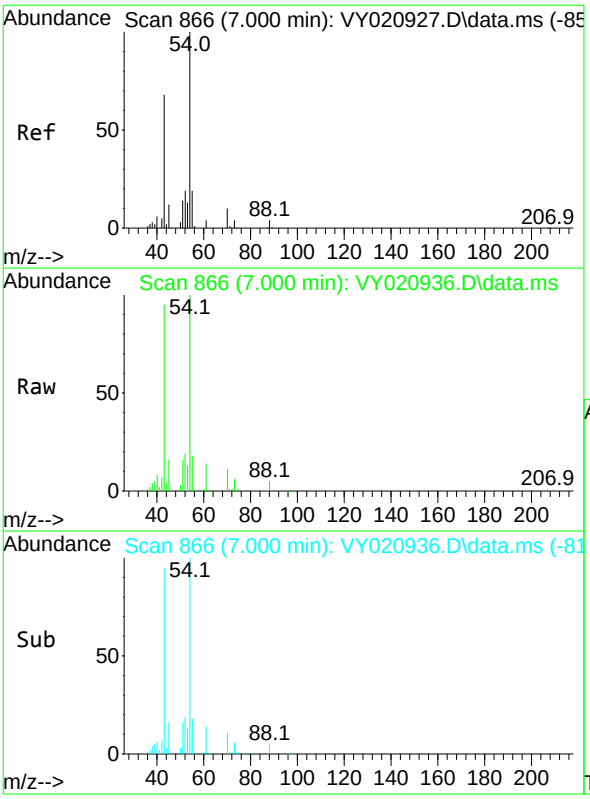




#36
1,1-Dichloropropene
Concen: 58.440 ug/l
RT: 7.853 min Scan# 1006
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 75 Resp: 190737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.5 | 18.5 | 55.5 |
| 77 | 31.0 | 25.0 | 37.4 |






#37
Ethyl Acetate
Concen: 56.949 ug/l
RT: 7.000 min Scan# 86
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

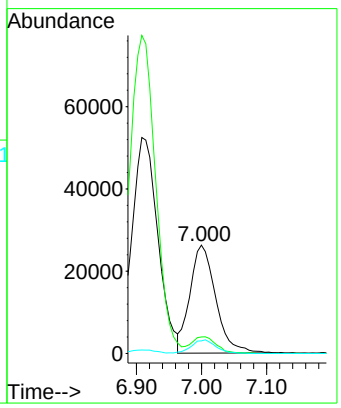
Tgt Ion: 43 Resp: 72114

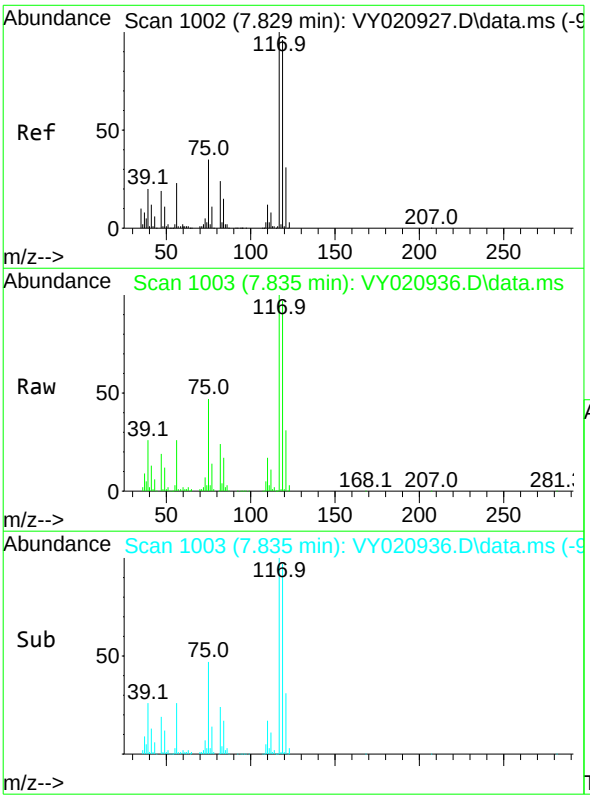
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.7 | 12.1 | 18.1 |
| 70 | 12.0 | 9.5 | 14.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

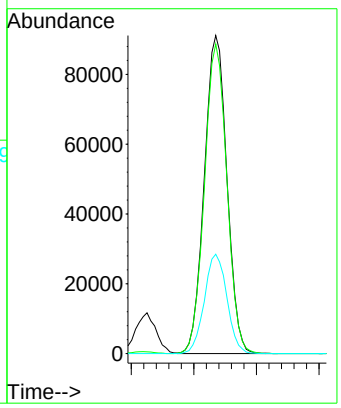


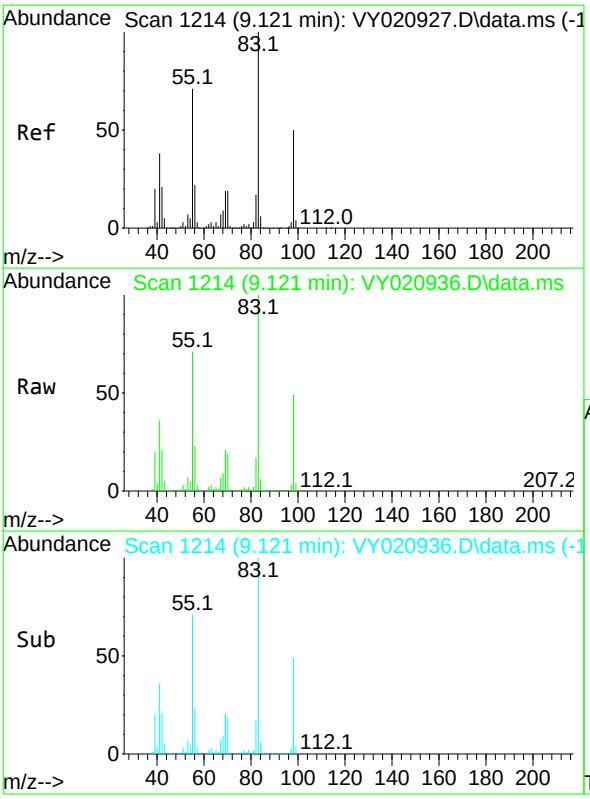




#38
Carbon Tetrachloride
Concen: 58.090 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:117 Resp: 228639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.3 | 76.5 | 114.7 |
| 121 | 31.2 | 25.0 | 37.4 |






#39
Methylcyclohexane
Concen: 58.909 ug/l
RT: 9.121 min Scan# 12
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

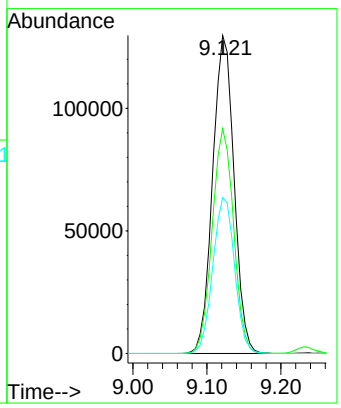
Tgt Ion: 83 Resp: 260292

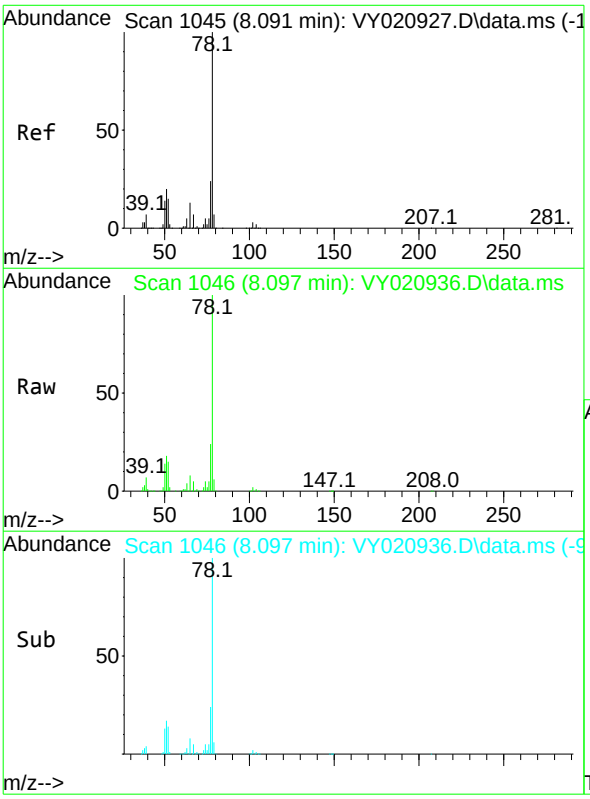
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 70.7 | 57.0 | 85.4 |
| 98 | 49.0 | 40.1 | 60.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

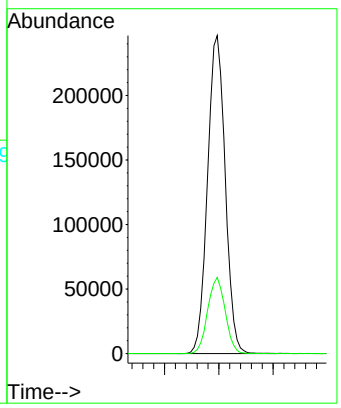


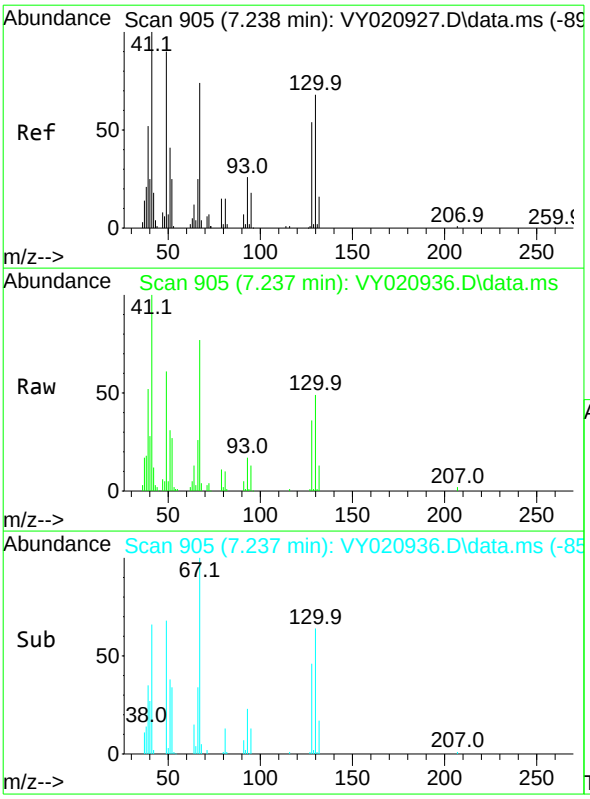




#40
Benzene
Concen: 58.254 ug/l
RT: 8.097 min Scan# 1046
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 78 Resp: 557786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 56.852 ug/l
RT: 7.237 min Scan# 90
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

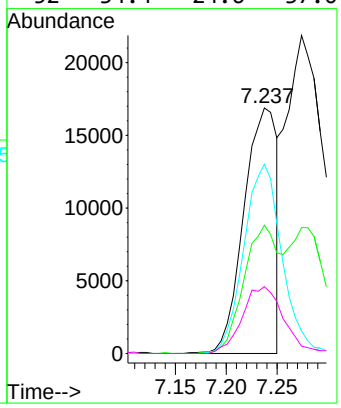
Tgt Ion: 41 Resp: 38030

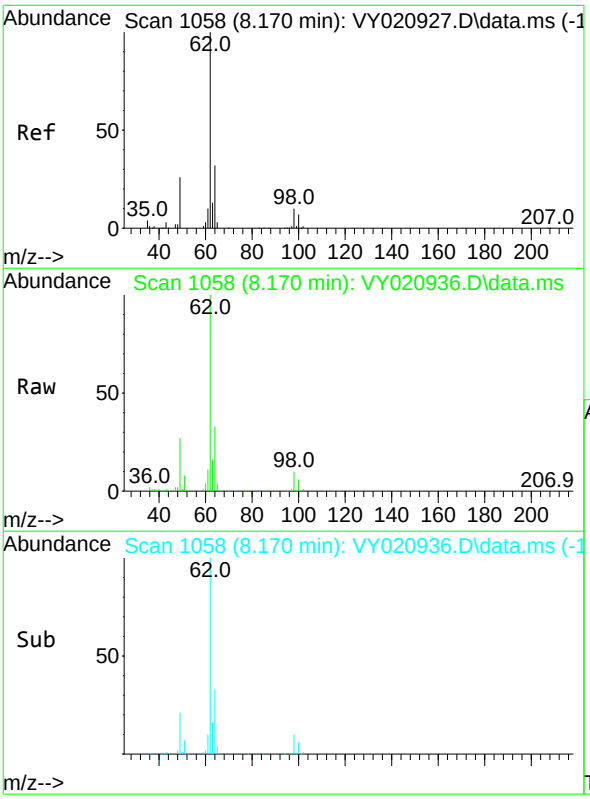
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.5 | 46.4 | 69.6 |
| 67 | 89.1 | 66.7 | 100.1 |
| 52 | 34.4 | 24.6 | 37.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

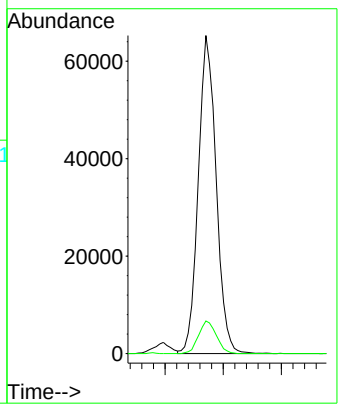


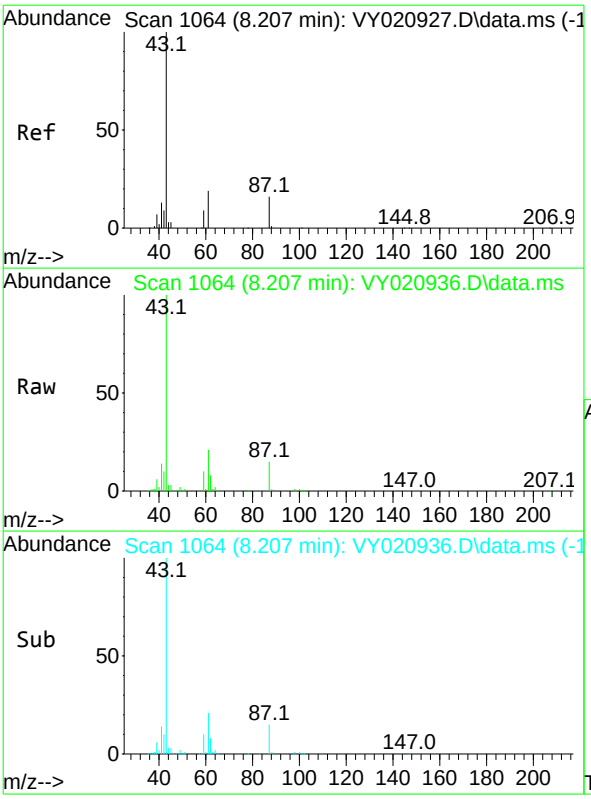




#42
1,2-Dichloroethane
Concen: 58.460 ug/l
RT: 8.170 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 62 Resp: 139282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.2 | 0.0 | 19.8 |






#43
Isopropyl Acetate
Concen: 58.911 ug/l
RT: 8.207 min Scan# 10
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

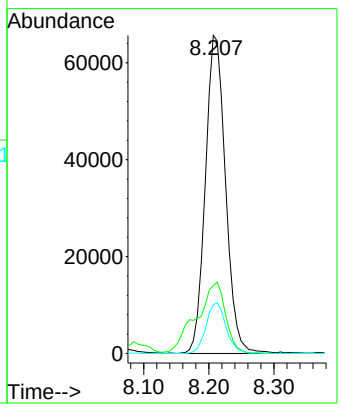
Tgt Ion: 43 Resp: 141459

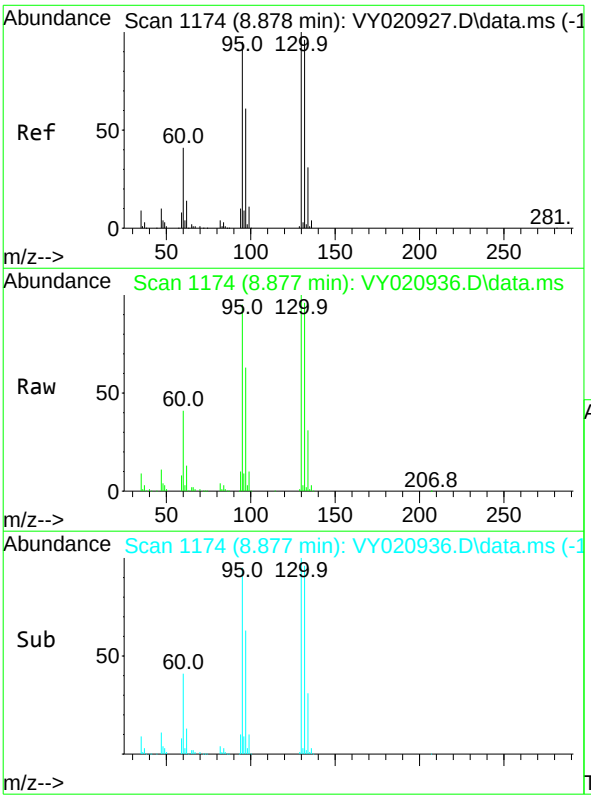
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 32.6 | 26.0 | 39.0 |
| 87 | 15.8 | 12.4 | 18.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

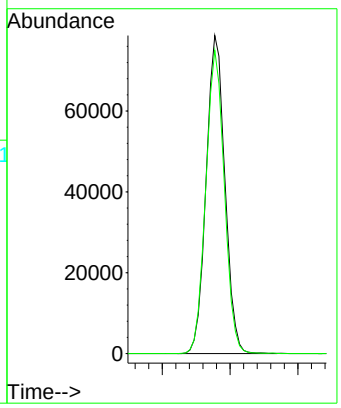


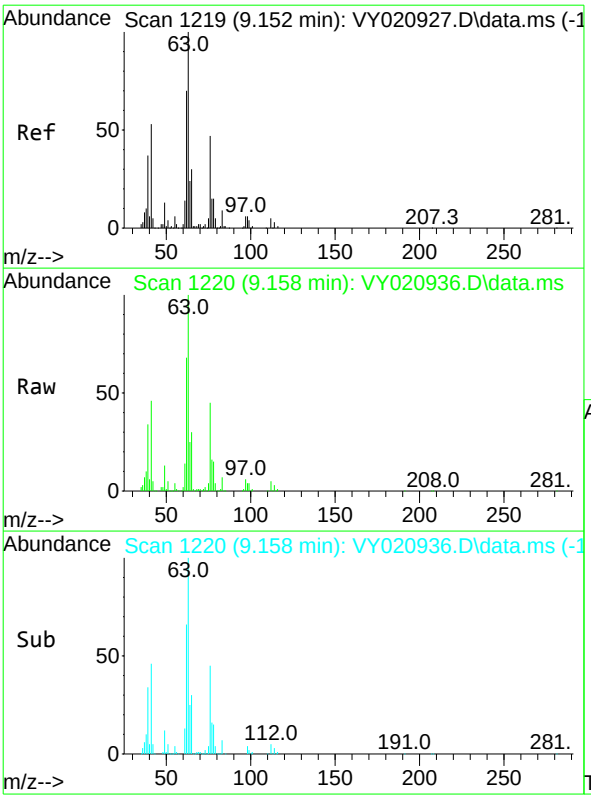




#44
Trichloroethene
Concen: 58.016 ug/l
RT: 8.877 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:130 Resp: 150917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.3 | 0.0 | 189.4 |






#45
1,2-Dichloropropane
Concen: 58.391 ug/l
RT: 9.158 min Scan# 12
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

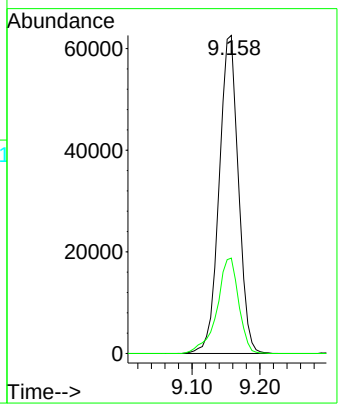
Tgt Ion: 63 Resp: 123414

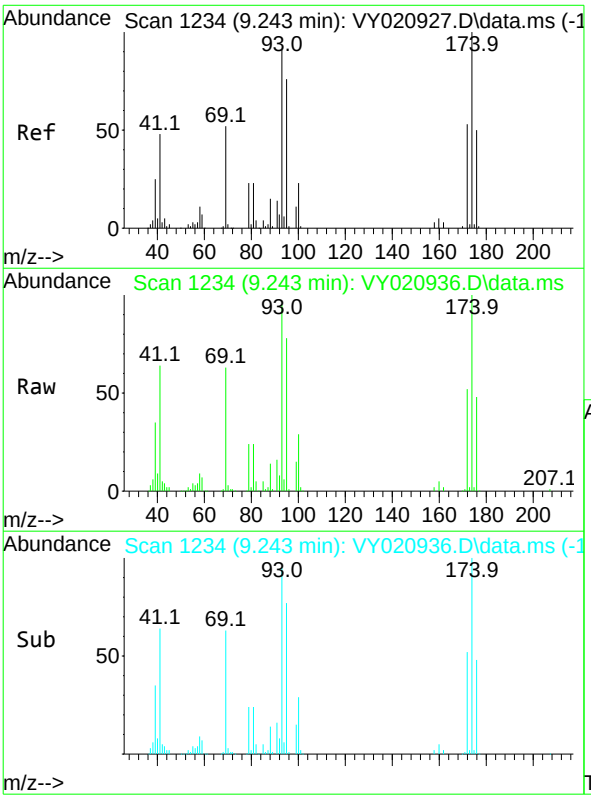
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.0 | 23.9 | 35.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

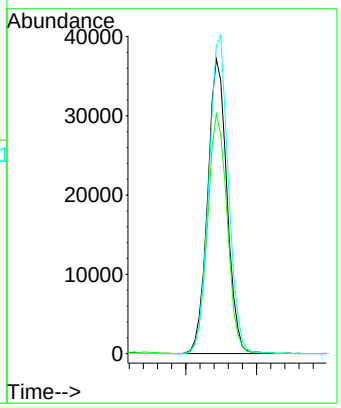


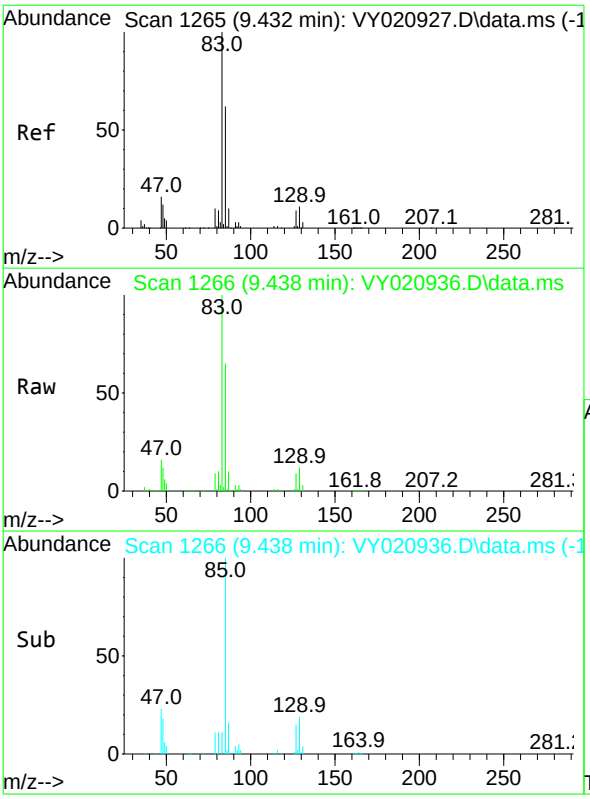




#46
Dibromomethane
Concen: 58.732 ug/l
RT: 9.243 min Scan# 1234
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 93 Resp: 70572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.3 | 66.2 | 99.2 |
| 174 | 109.2 | 87.0 | 130.4 |






#47
Bromodichloromethane
Concen: 57.966 ug/l
RT: 9.438 min Scan# 12
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

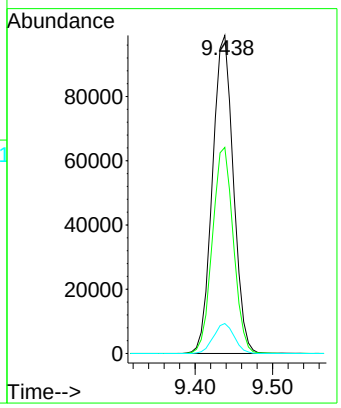
Tgt Ion: 83 Resp: 185325

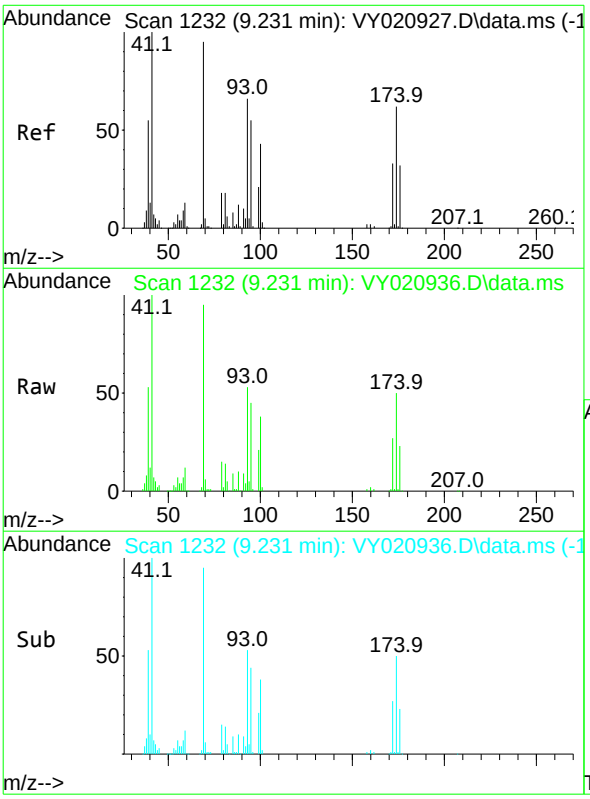
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.8 | 49.3 | 73.9 |
| 127 | 9.4 | 7.4 | 11.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

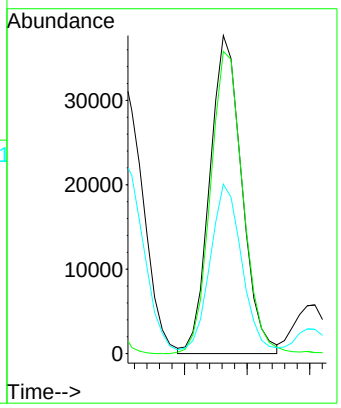


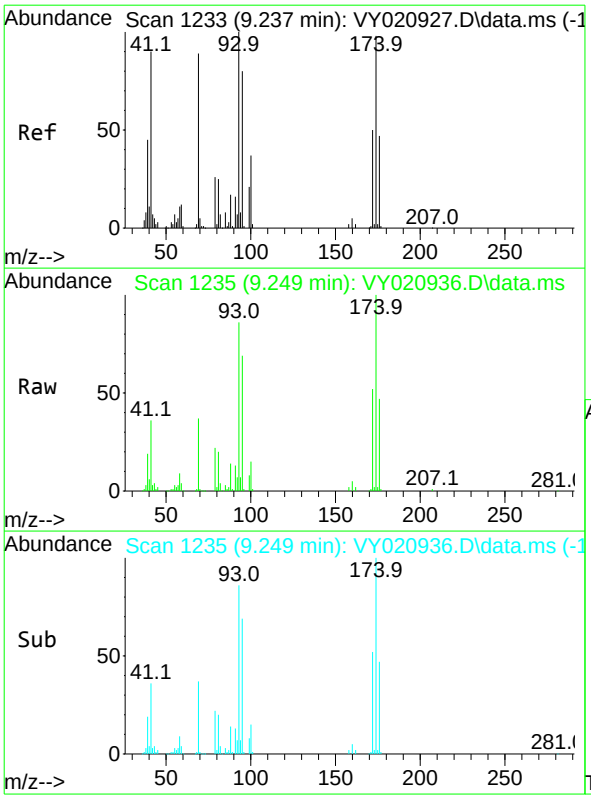




#48
Methyl methacrylate
Concen: 59.152 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 41 Resp: 67003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 96.5 | 77.0 | 115.4 |
| 39 | 50.8 | 41.1 | 61.7 |






#49
1,4-Dioxane
Concen: 1130.869 ug/l
RT: 9.249 min Scan# 12
Delta R.T. 0.012 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

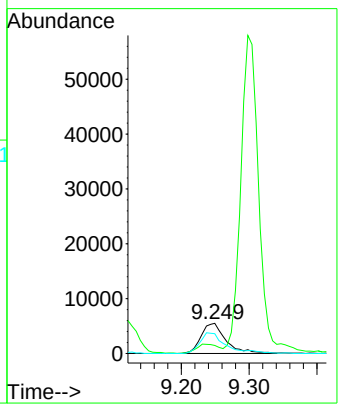
Tgt Ion: 88 Resp: 13991

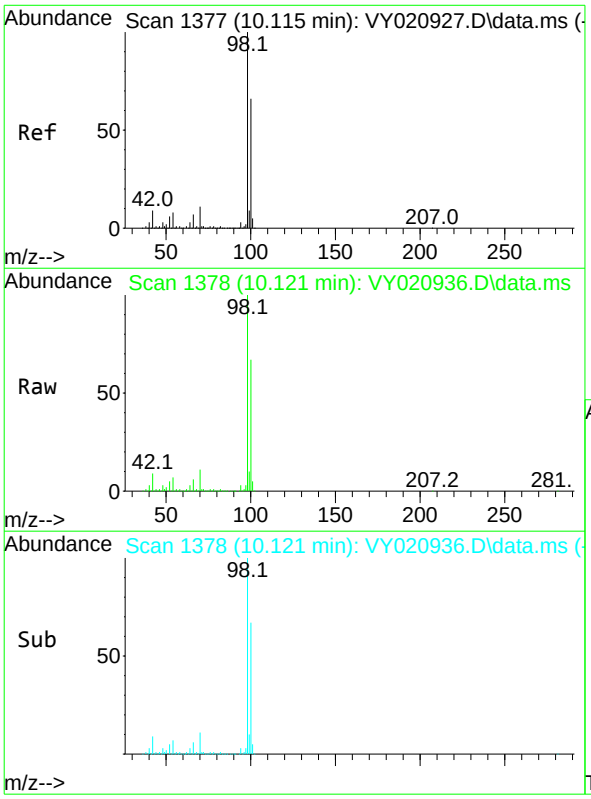
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 28.3 | 23.1 | 34.7 |
| 58 | 71.4 | 49.0 | 73.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

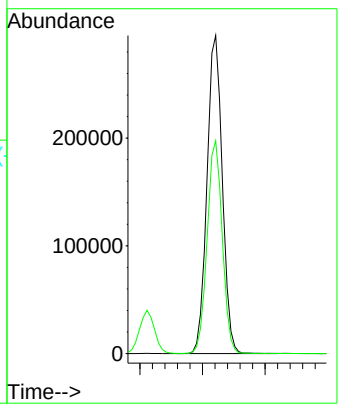


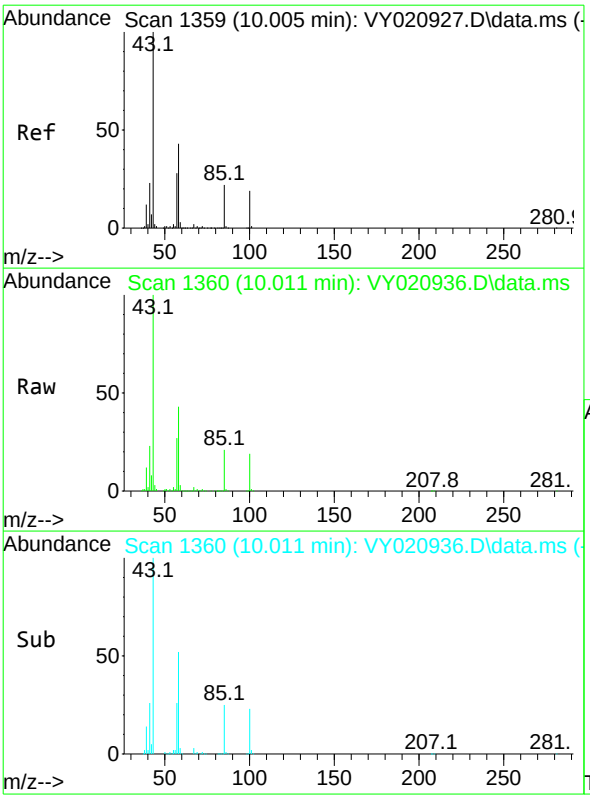




#50
Toluene-d8
Concen: 55.293 ug/l
RT: 10.121 min Scan# 1378
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 98 Resp: 501358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.0 | 52.3 | 78.5 |






#51
4-Methyl-2-Pentanone
Concen: 292.180 ug/l
RT: 10.011 min Scan# 13
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

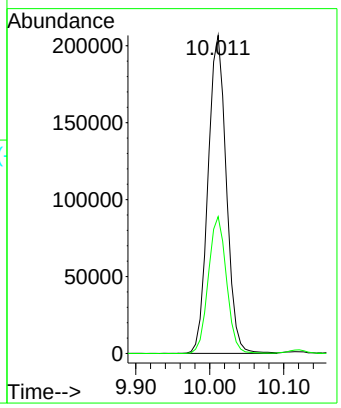
Tgt Ion: 43 Resp: 353760

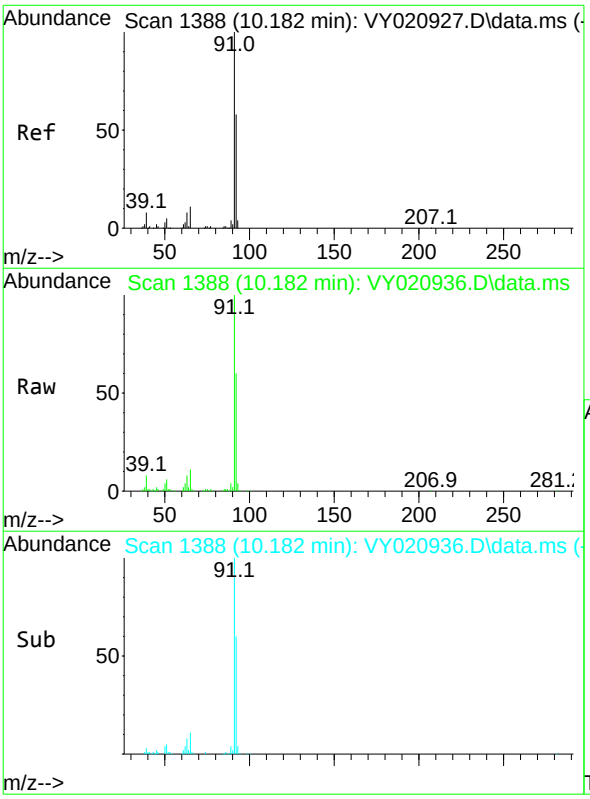
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.9 | 33.7 | 50.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

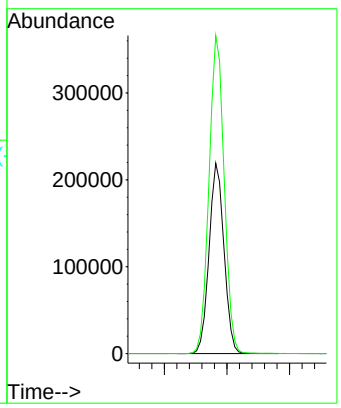


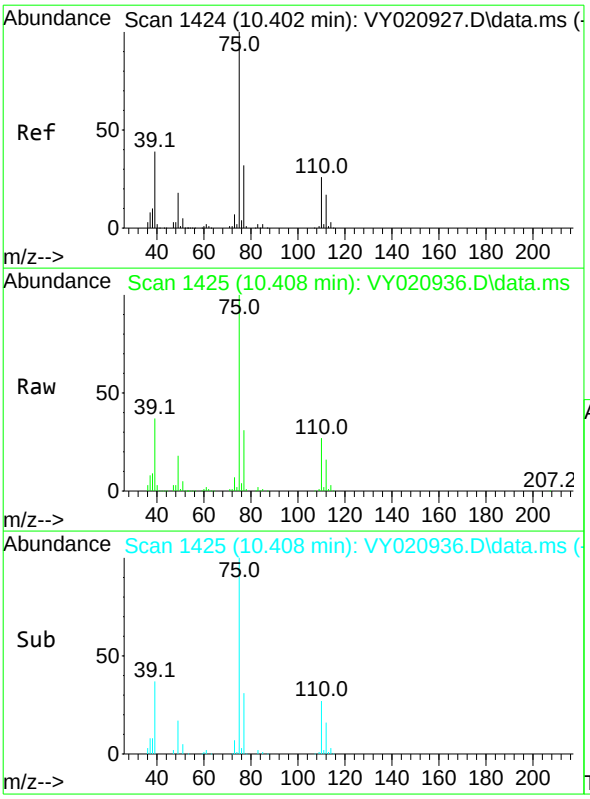




#52
Toluene
Concen: 58.871 ug/l
RT: 10.182 min Scan# 1388
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 92 Resp: 362533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.6 | 137.3 | 205.9 |






#53
t-1,3-Dichloropropene
Concen: 58.931 ug/l
RT: 10.408 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

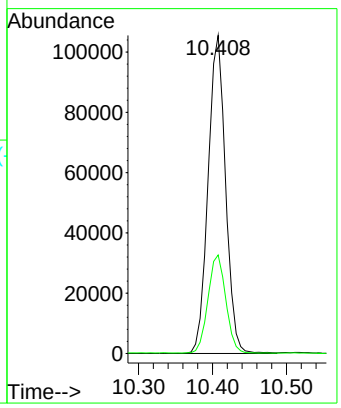
Tgt Ion: 75 Resp: 172755

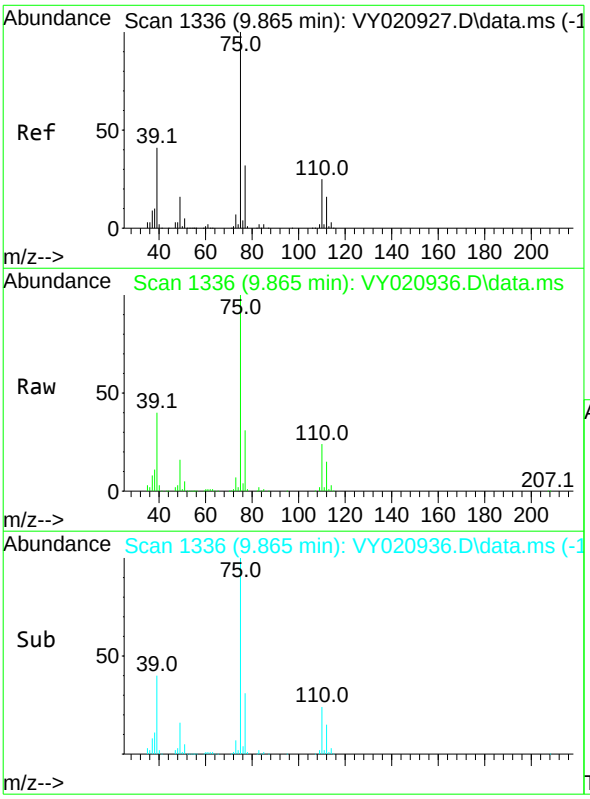
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.9 | 25.4 | 38.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

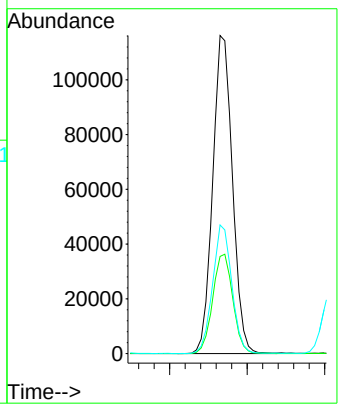


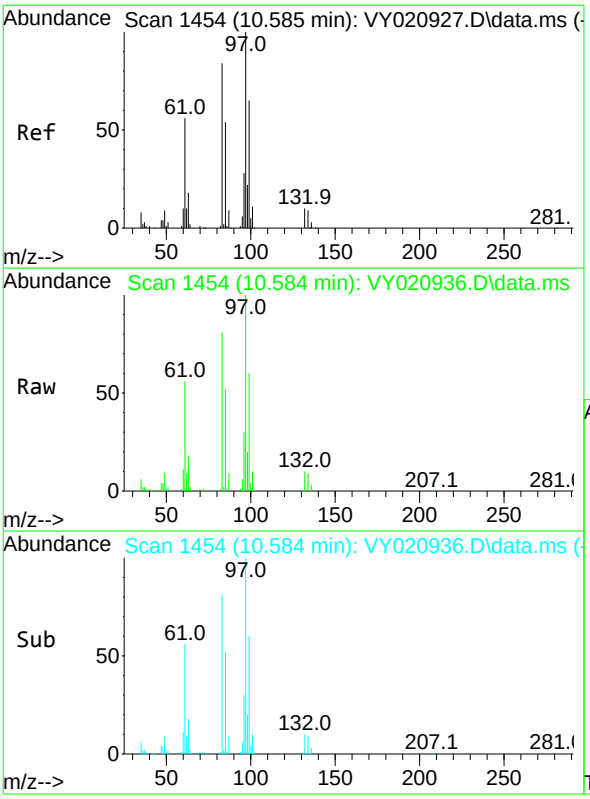




#54
cis-1,3-Dichloropropene
Concen: 58.669 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 75 Resp: 205363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.5 | 25.7 | 38.5 |
| 39 | 40.5 | 32.8 | 49.2 |






#55
1,1,2-Trichloroethane
Concen: 58.264 ug/l
RT: 10.584 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

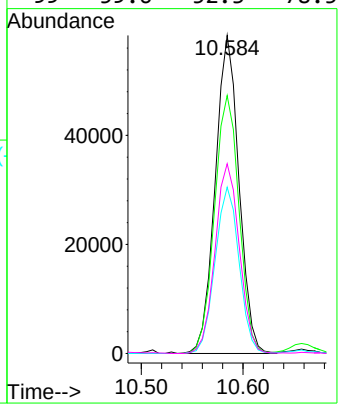
Tgt Ion: 97 Resp: 94633

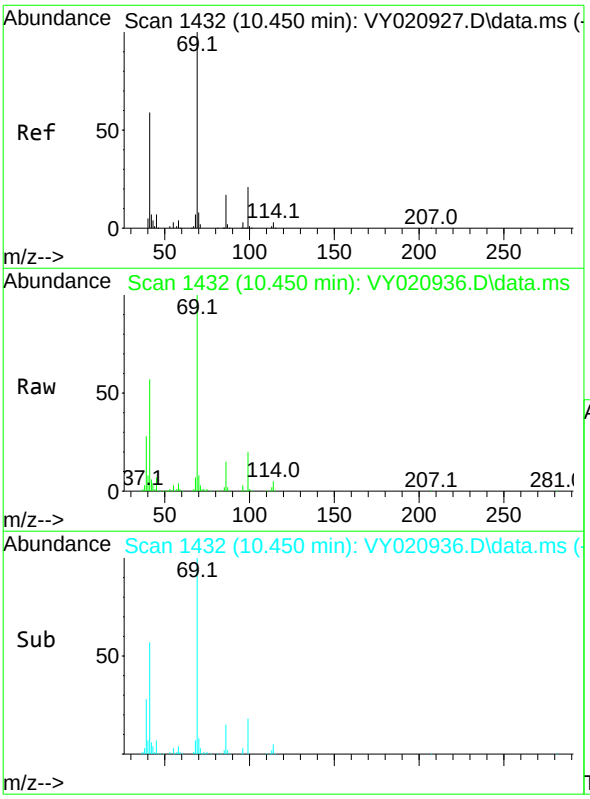
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 81.1 | 67.0 | 100.6 |
| 85 | 52.3 | 43.1 | 64.7 |
| 99 | 59.6 | 52.3 | 78.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

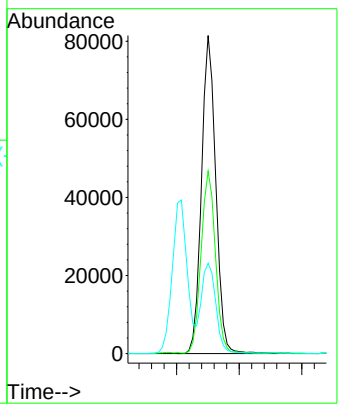


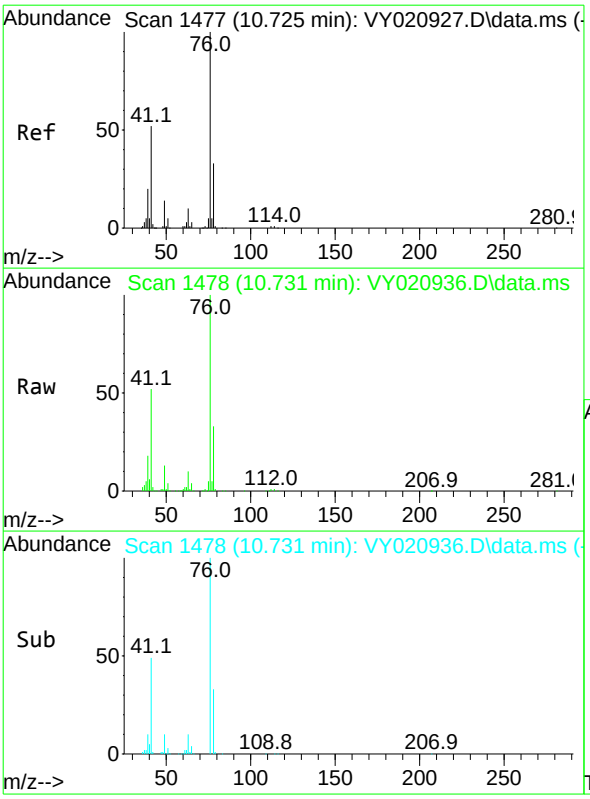




#56
Ethyl methacrylate
Concen: 60.666 ug/l
RT: 10.450 min Scan# 1432
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 69 Resp: 129135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 57.5 | 46.6 | 70.0 |
| 39 | 28.1 | 23.9 | 35.9 |






#57
1,3-Dichloropropane
Concen: 58.615 ug/l
RT: 10.731 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 76 Resp: 161731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.3 | 26.2 | 39.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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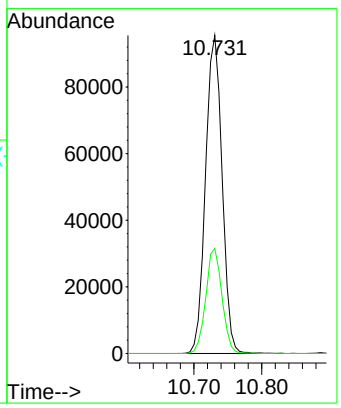
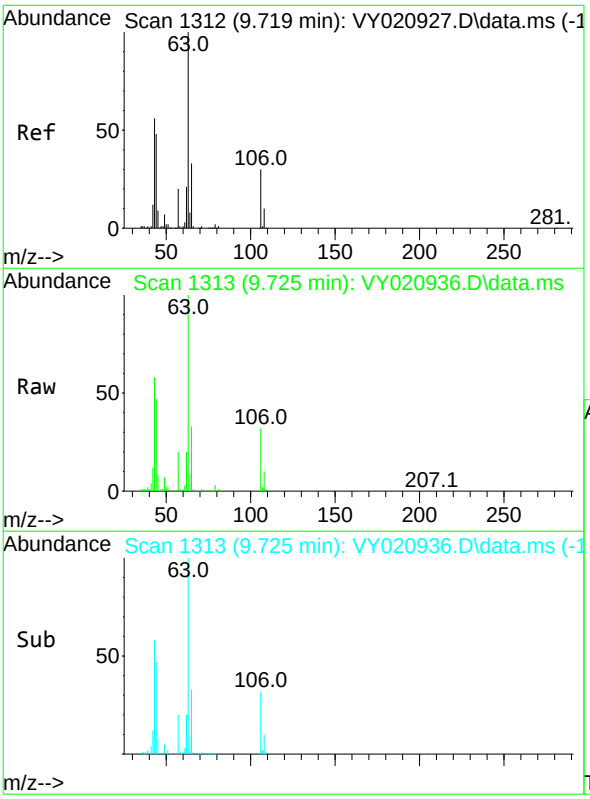
Supervised By :Semsettin Yesilyurt 01/28/2025

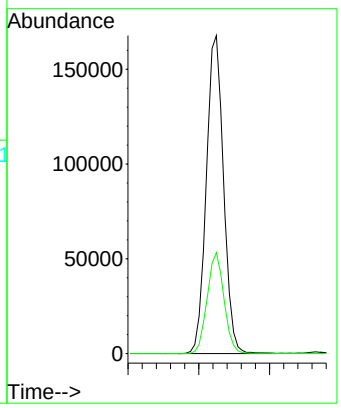


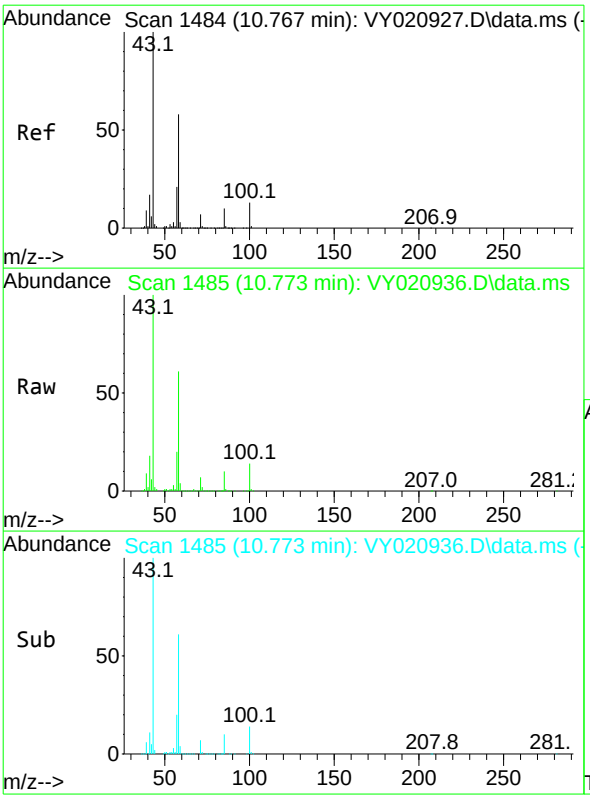




#58
2-Chloroethyl Vinyl ether
Concen: 292.868 ug/l
RT: 9.725 min Scan# 1313
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 63 Resp: 282944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 31.1 | 24.7 | 37.1 |






#59
2-Hexanone
Concen: 300.455 ug/l
RT: 10.773 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

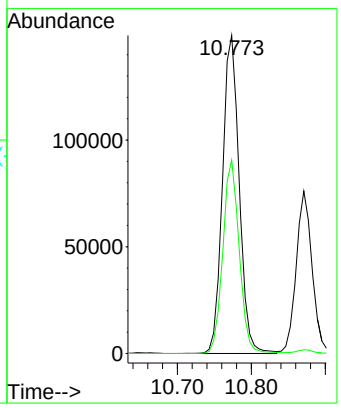
Tgt Ion: 43 Resp: 233922

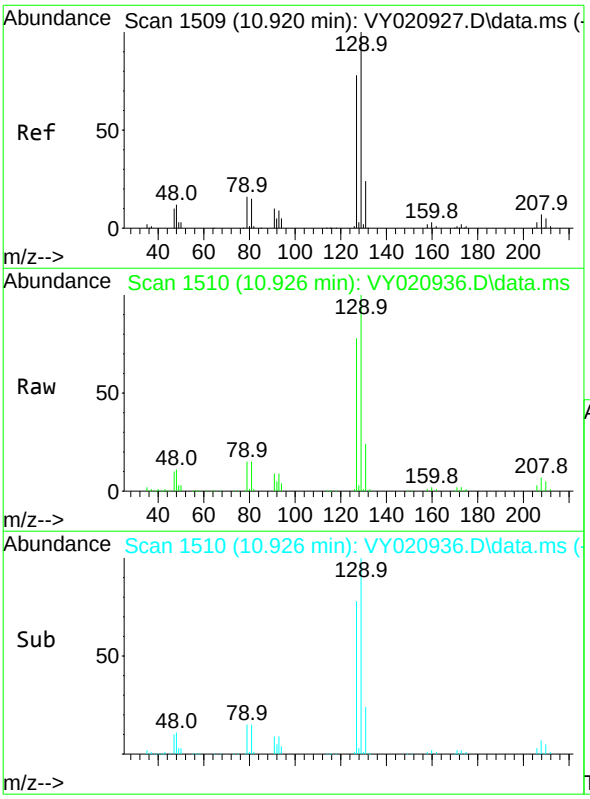
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.6 | 29.9 | 89.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

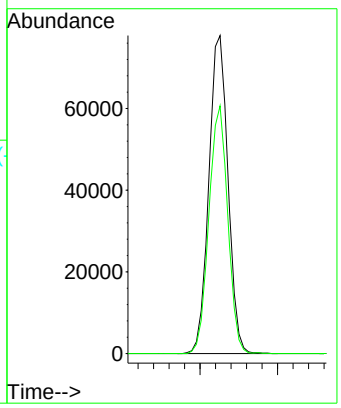


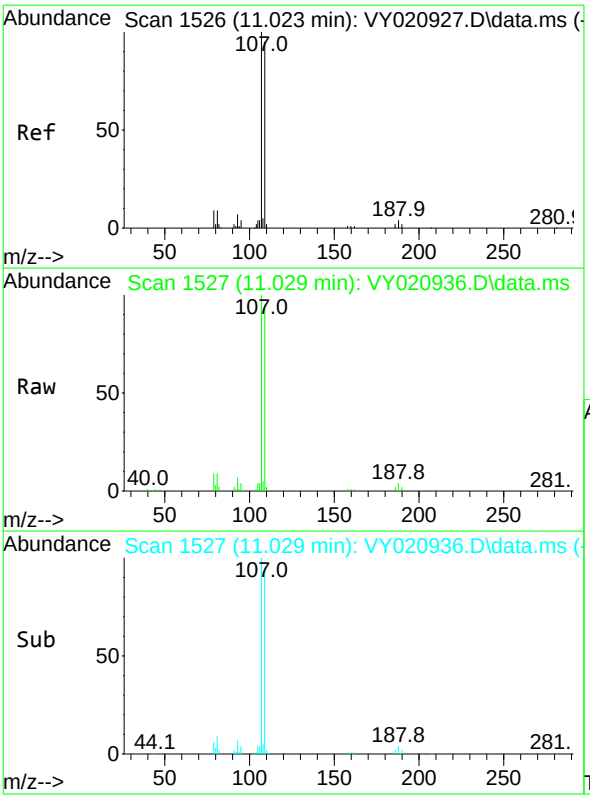




#60
Dibromochloromethane
Concen: 58.346 ug/l
RT: 10.926 min Scan# 1510
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:129 Resp: 133374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.8 | 39.2 | 117.6 |






#61
1,2-Dibromoethane
Concen: 57.005 ug/l
RT: 11.029 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:107 Resp: 88558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.9 | 76.3 | 114.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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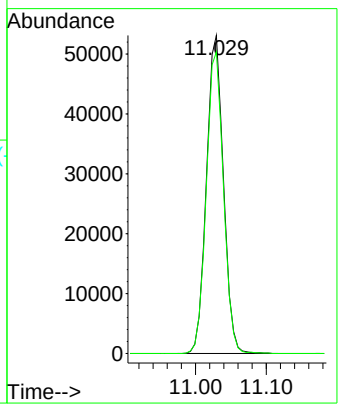
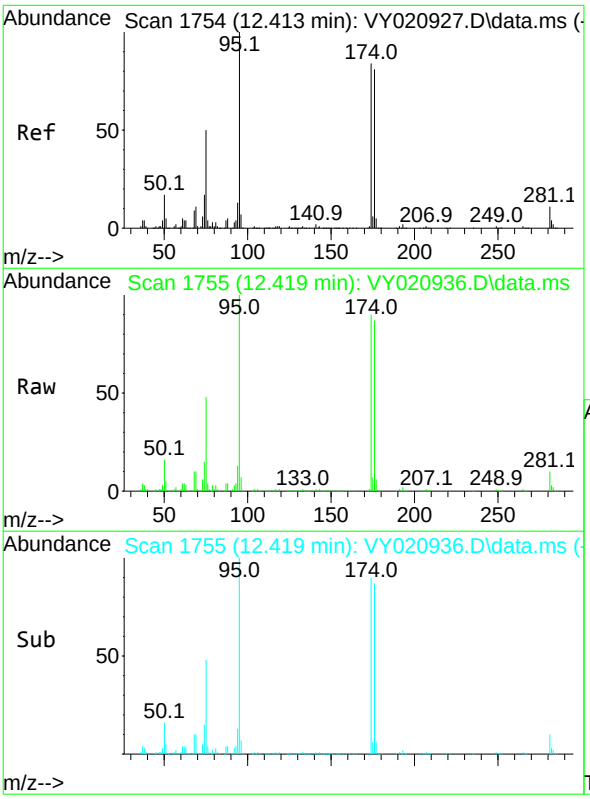
Supervised By :Semsettin Yesilyurt 01/28/2025

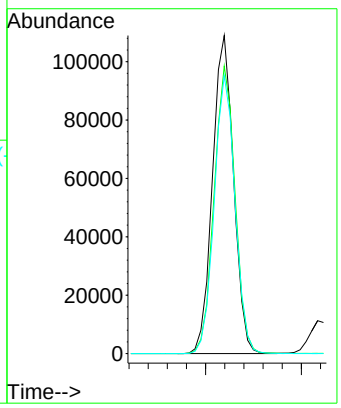


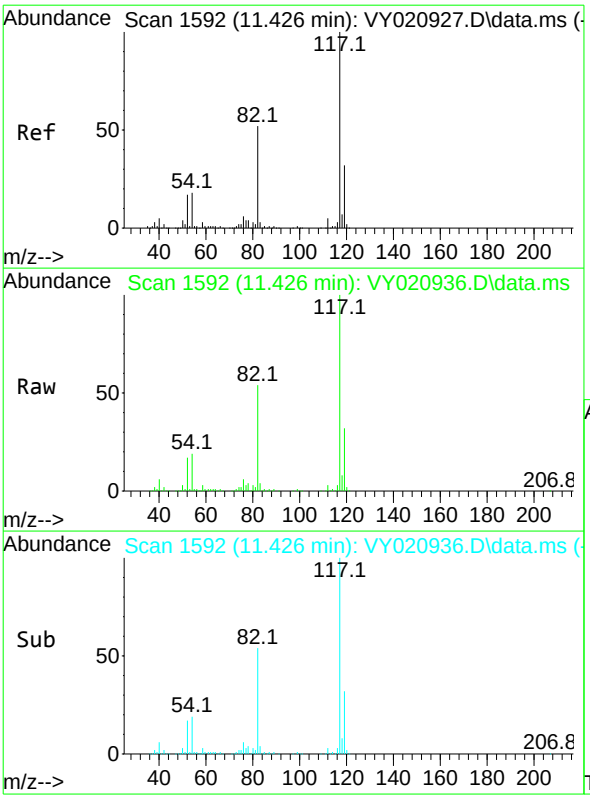




#62
4-Bromofluorobenzene
Concen: 55.179 ug/l
RT: 12.419 min Scan# 1755
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 95 Resp: 166513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 89.7 | 0.0 | 177.4 |
| 176 | 86.2 | 0.0 | 172.2 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:117 Resp: 343290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.5 | 41.8 | 62.8 |
| 119 | 32.2 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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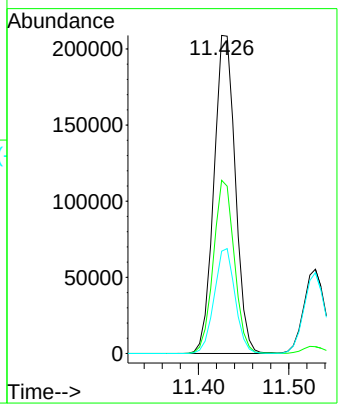
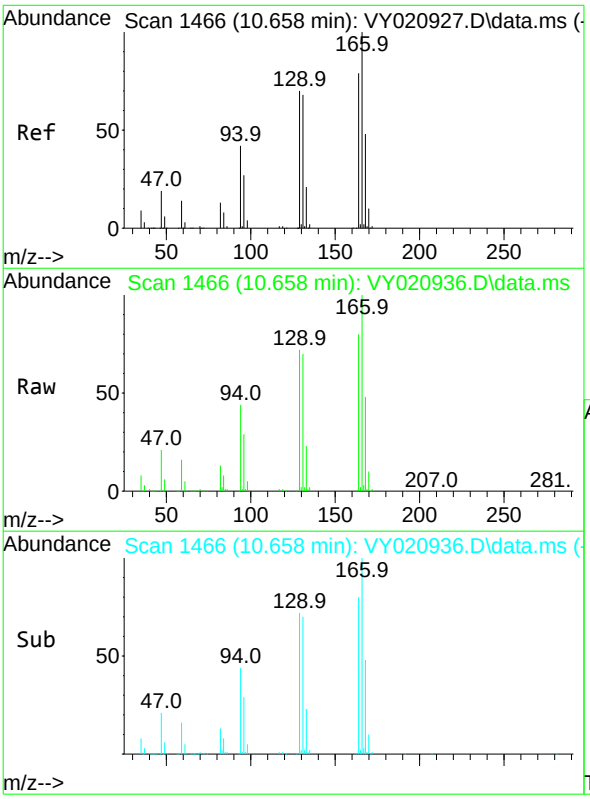
Supervised By :Semsettin Yesilyurt 01/28/2025

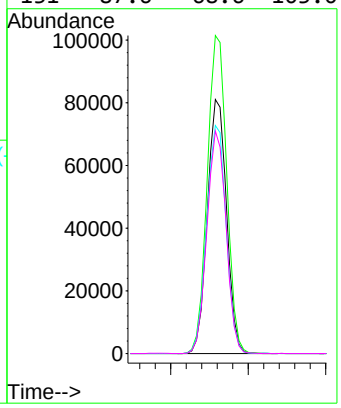


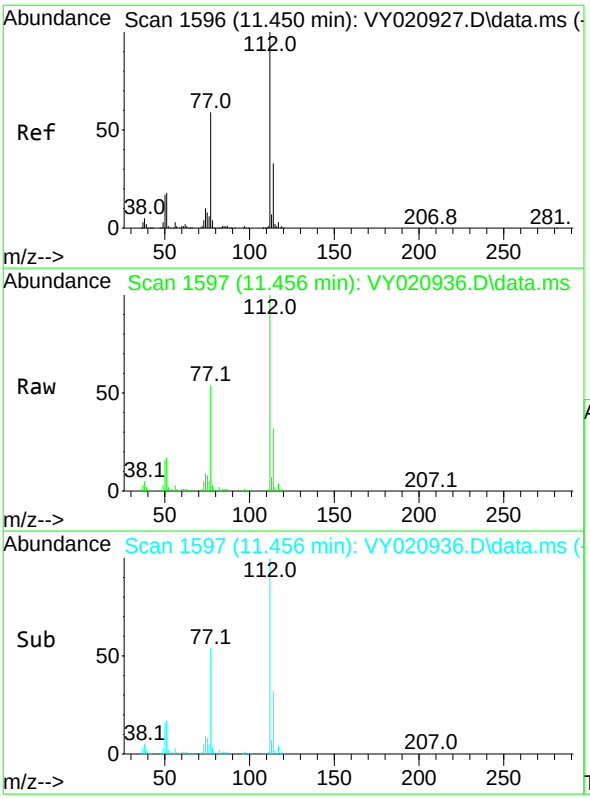




#64
Tetrachloroethene
Concen: 58.394 ug/l
RT: 10.658 min Scan# 1466
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:164 Resp: 139504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 125.2 | 101.0 | 151.6 |
| 129 | 89.8 | 70.8 | 106.2 |
| 131 | 87.6 | 68.6 | 103.0 |






#65
Chlorobenzene
Concen: 57.822 ug/l
RT: 11.456 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:112 Resp: 388163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.1 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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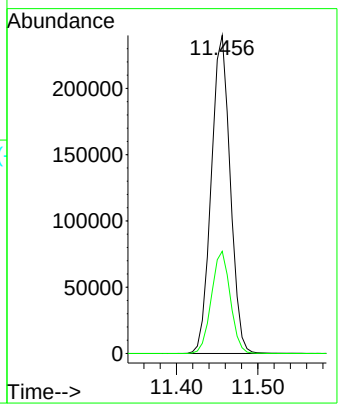
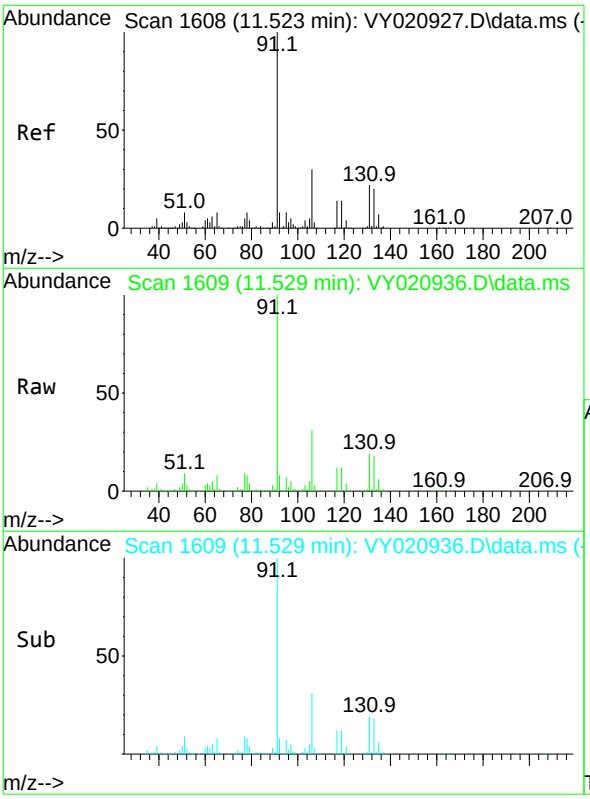
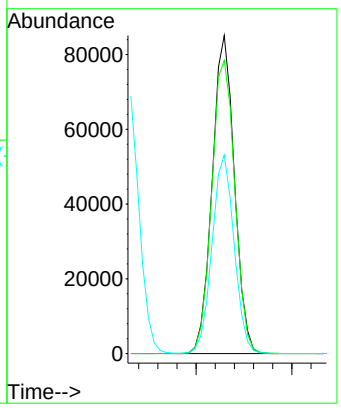


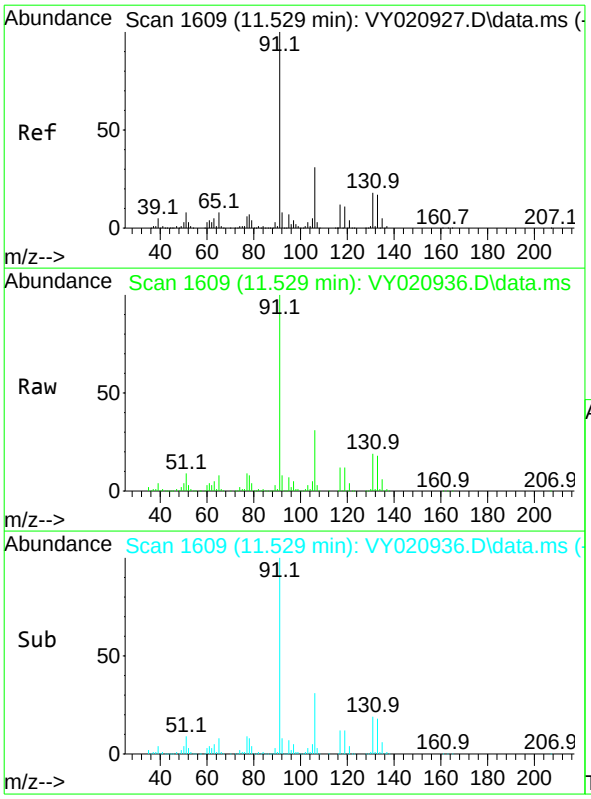




#66
1,1,1,2-Tetrachloroethane
Concen: 57.398 ug/l
RT: 11.529 min Scan# 1609
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:131 Resp: 136923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.1 | 47.5 | 142.6 |
| 119 | 62.3 | 31.2 | 93.6 |






#67
Ethyl Benzene
Concen: 58.508 ug/l
RT: 11.529 min Scan# 16
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 91 Resp: 685355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.3 | 25.2 | 37.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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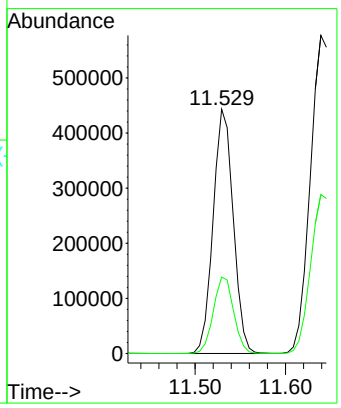
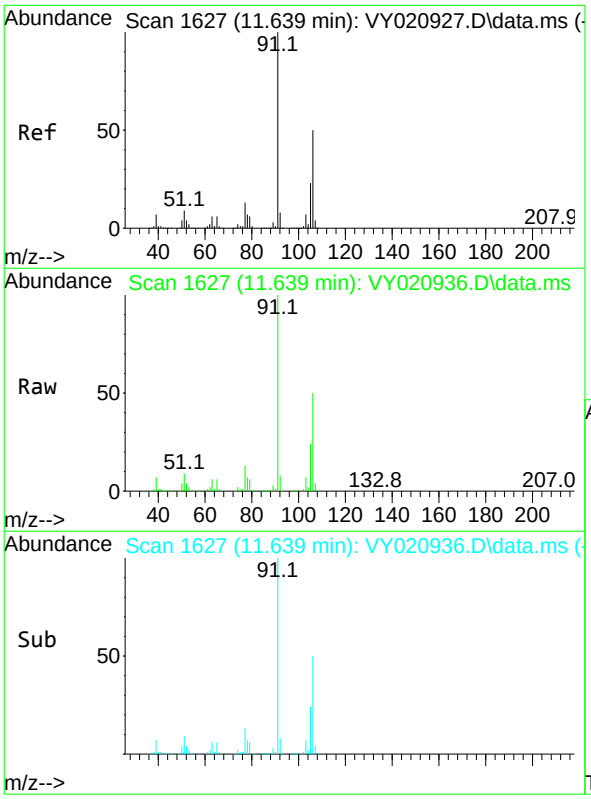
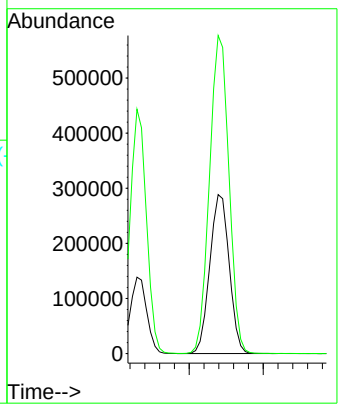


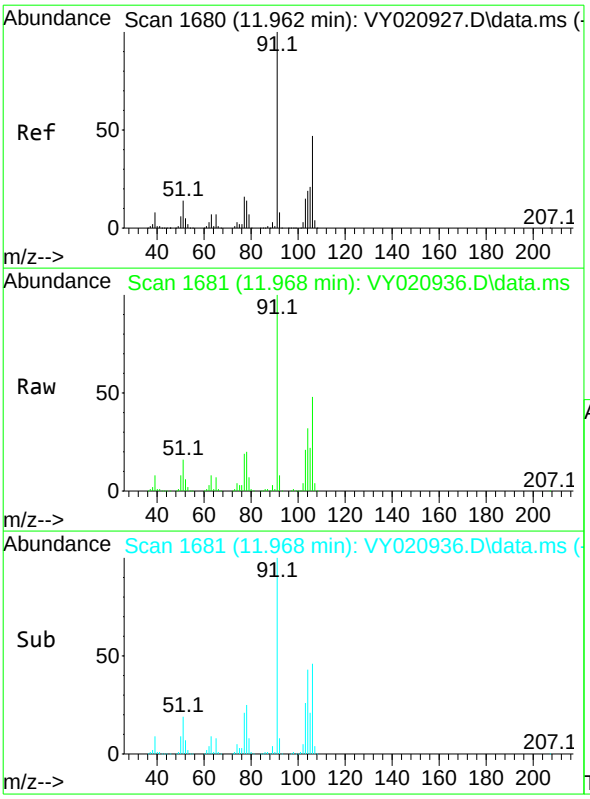




#68
m/p-Xylenes
Concen: 117.148 ug/l
RT: 11.639 min Scan# 1627
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:106 Resp: 525455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 200.6 | 159.5 | 239.3 |






#69
o-Xylene
Concen: 59.216 ug/l
RT: 11.968 min Scan# 16
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:106 Resp: 248101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.0 | 105.3 | 315.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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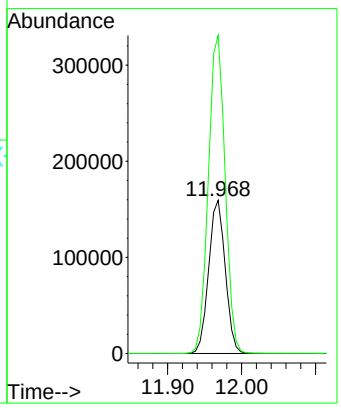
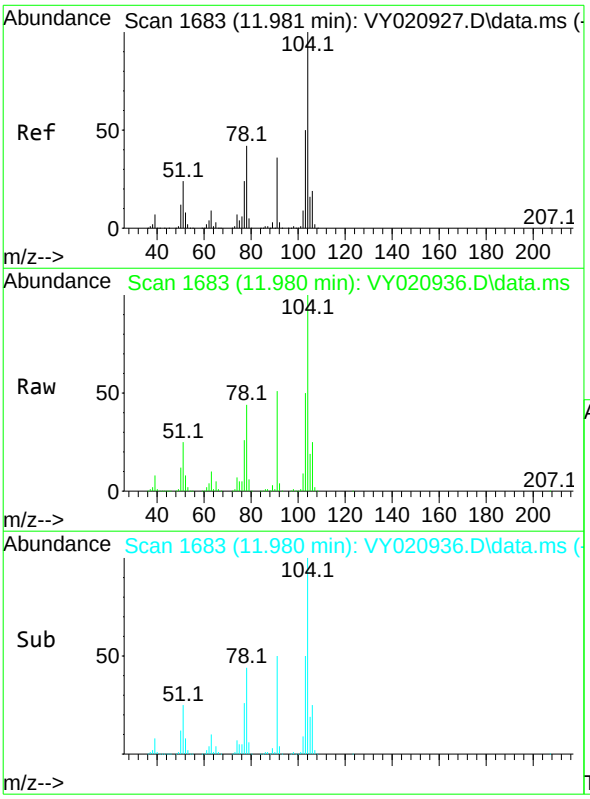
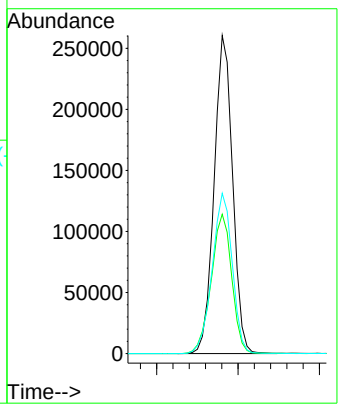


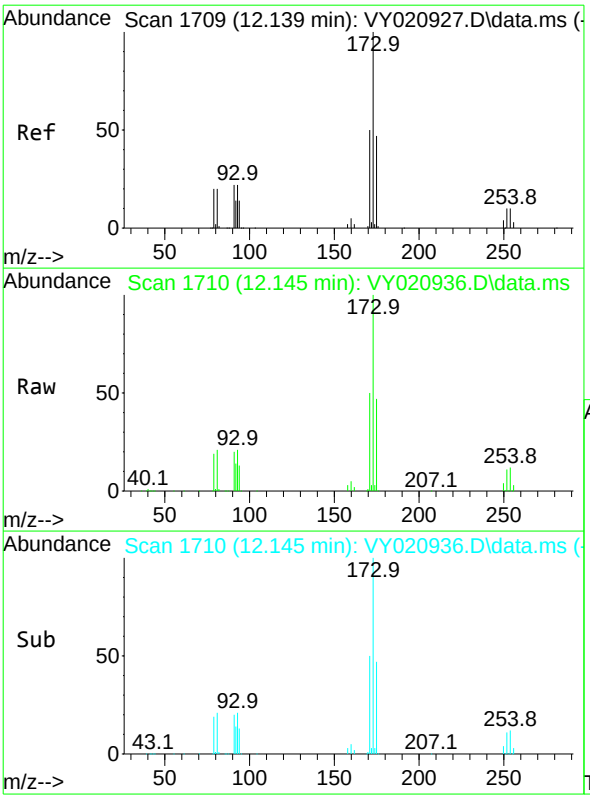




#70
Styrene
Concen: 59.850 ug/l
RT: 11.980 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:104 Resp: 410959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.6 | 38.5 | 57.7 |
| 103 | 54.8 | 43.4 | 65.2 |






#71
Bromoform
Concen: 59.750 ug/l
RT: 12.145 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

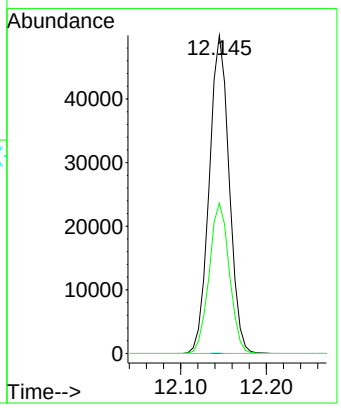
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

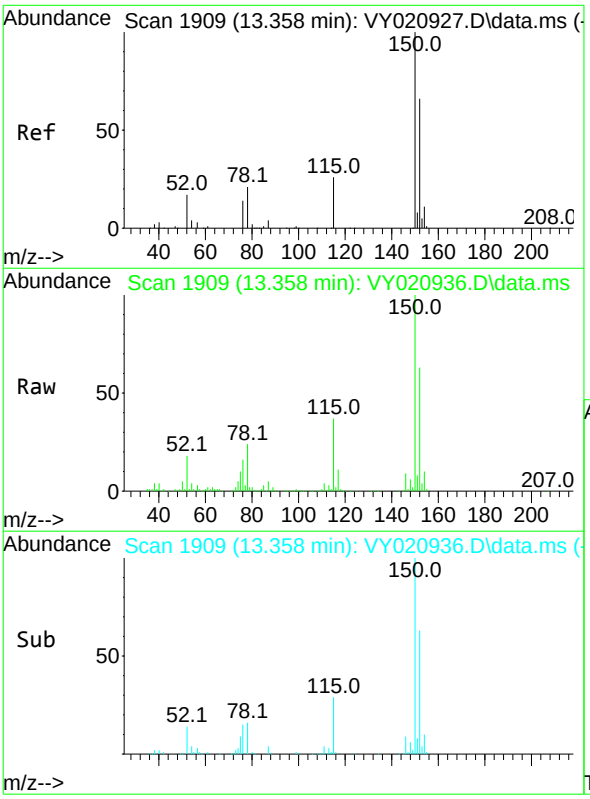
Tgt Ion:173 Resp: 80711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.8 | 24.3 | 73.0 |
| 254 | 0.1 | 0.1 | 0.1# |

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

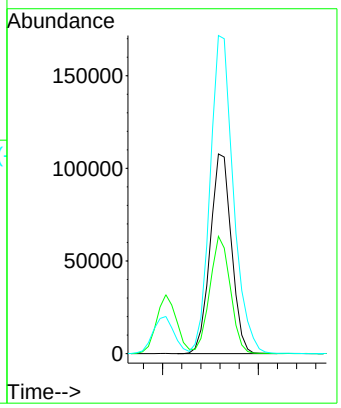


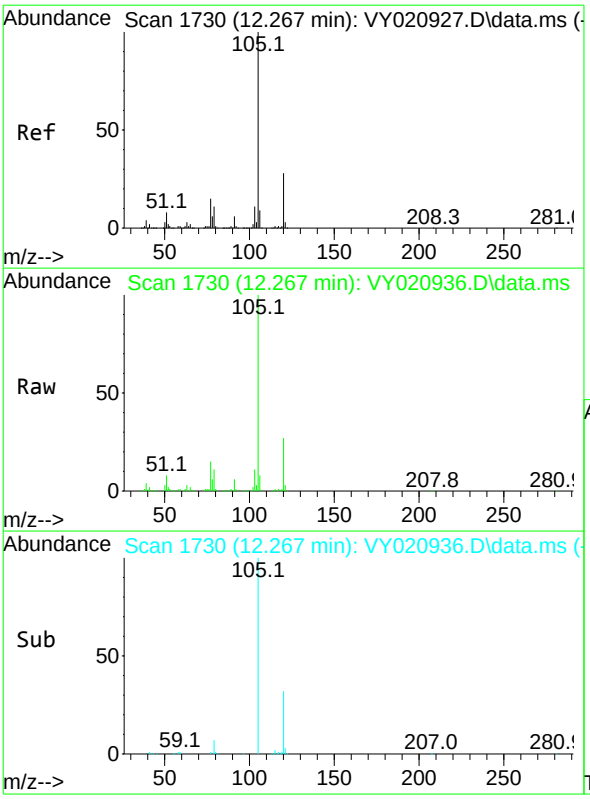




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.358 min Scan# 1909
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:152 Resp: 166155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.4 | 29.0 | 87.0 |
| 150 | 174.4 | 0.0 | 347.6 |






#73
Isopropylbenzene
Concen: 58.433 ug/l
RT: 12.267 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

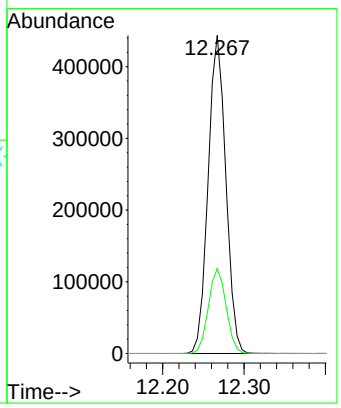
Tgt Ion:105 Resp: 668680

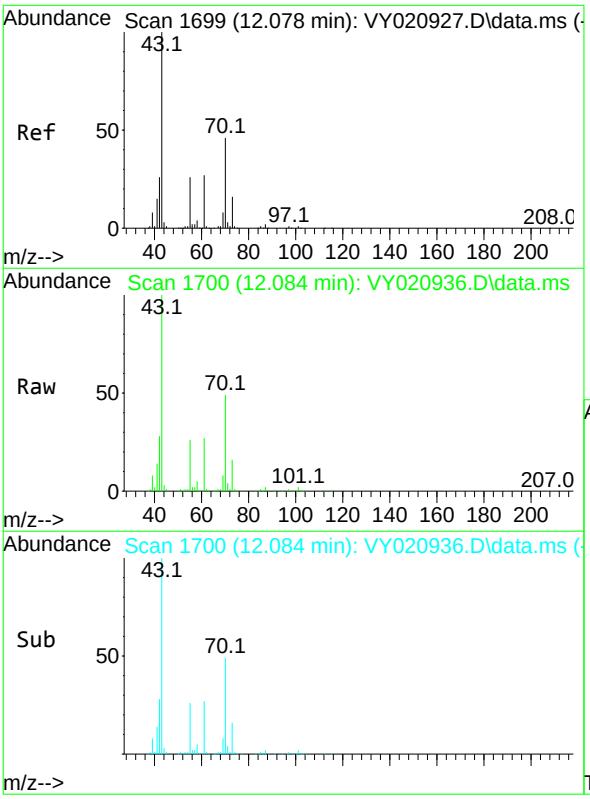
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.7 | 13.4 | 40.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

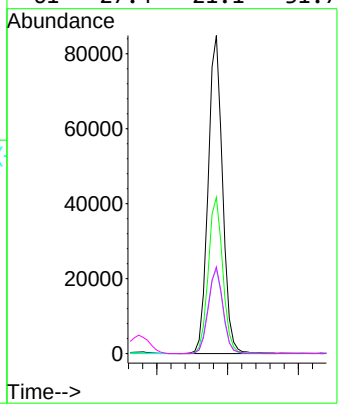


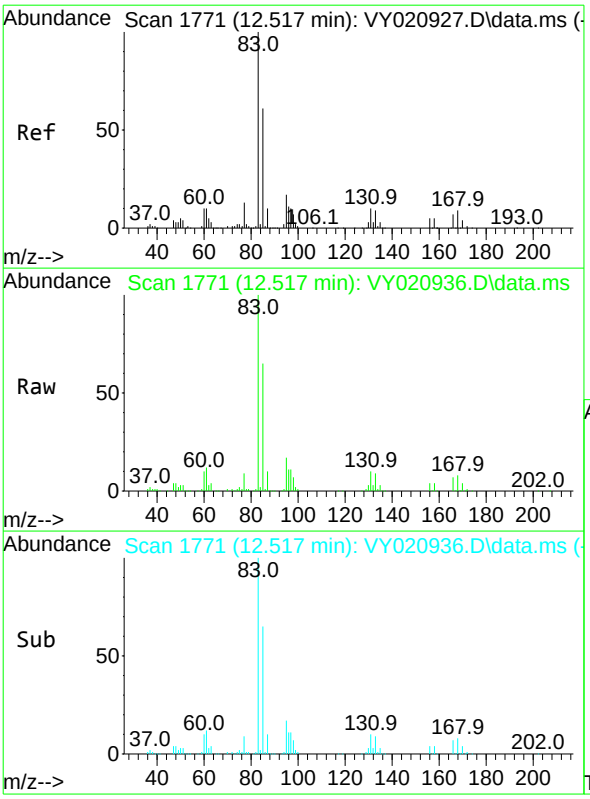




#74
N-amyl acetate
Concen: 58.949 ug/l
RT: 12.084 min Scan# 1700
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 43 Resp: 120037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 49.1 | 38.7 | 58.1 |
| 55 | 27.4 | 21.6 | 32.4 |
| 61 | 27.4 | 21.1 | 31.7 |






#75
1,1,2,2-Tetrachloroethane
Concen: 57.195 ug/l
RT: 12.517 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

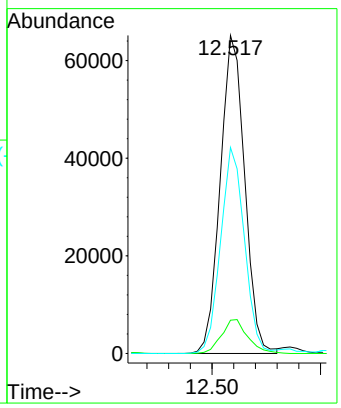
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

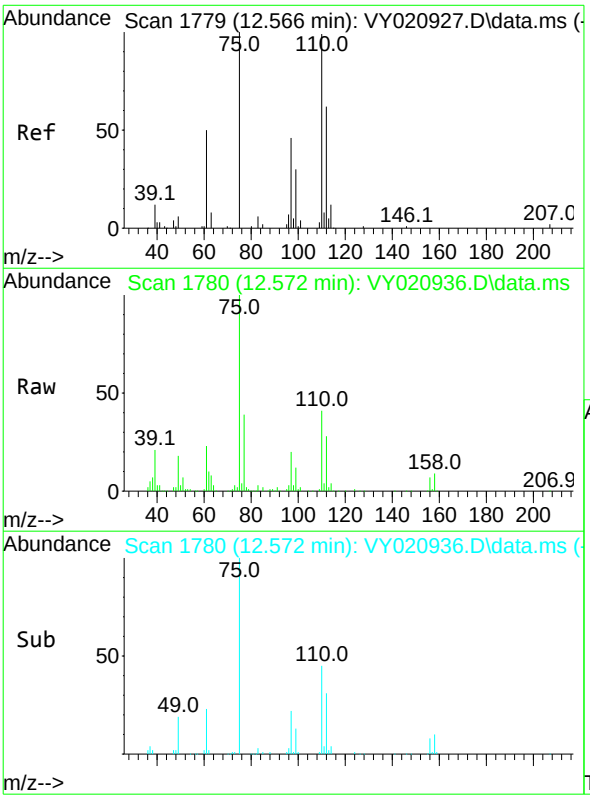
Tgt Ion: 83 Resp: 101834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.5 | 5.5 | 16.7 |
| 85 | 63.4 | 31.8 | 95.4 |

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

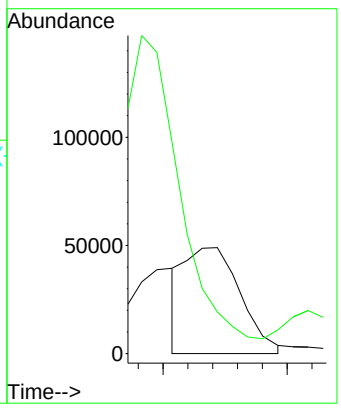


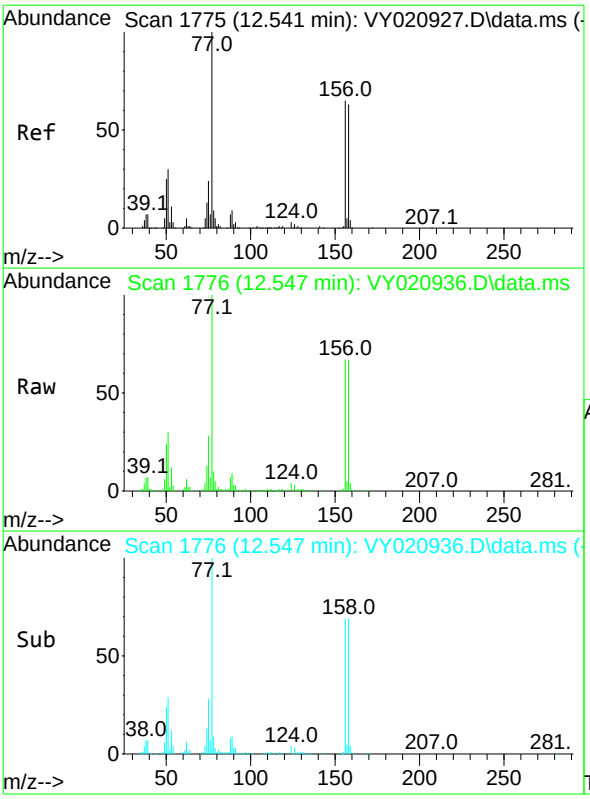




#76
1,2,3-Trichloropropane
Concen: 65.208 ug/l m
RT: 12.572 min Scan# 1780
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 75 Resp: 76605

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






#77
Bromobenzene
Concen: 56.601 ug/l
RT: 12.547 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

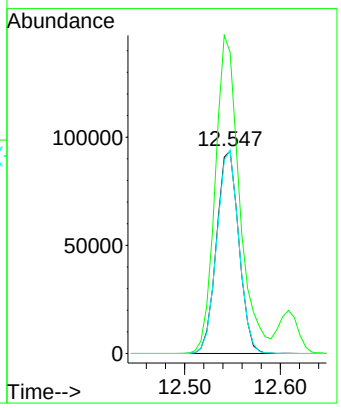
Tgt Ion:156 Resp: 151827

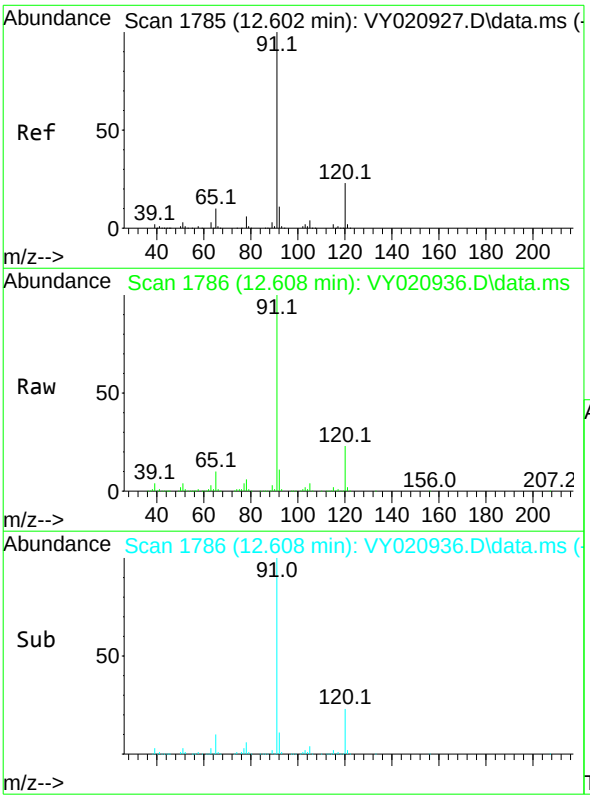
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 171.4 | 84.4 | 253.1 |
| 158 | 99.4 | 48.9 | 146.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

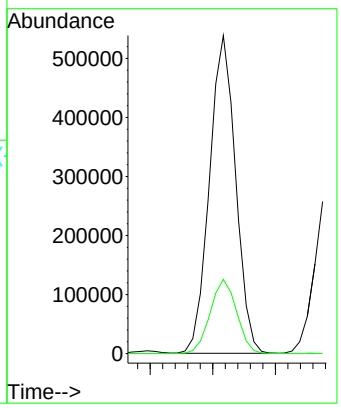


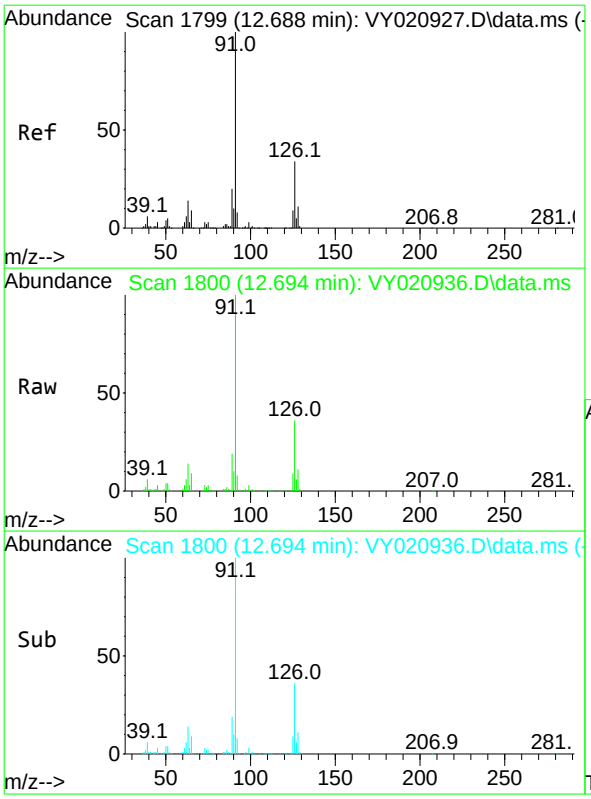




#78
n-propylbenzene
Concen: 58.629 ug/l
RT: 12.608 min Scan# 1786
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 91 Resp: 781507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.6 | 11.8 | 35.4 |






#79
2-Chlorotoluene
Concen: 57.750 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 91 Resp: 436598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.1 | 17.6 | 52.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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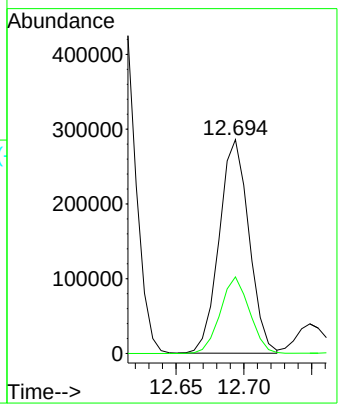
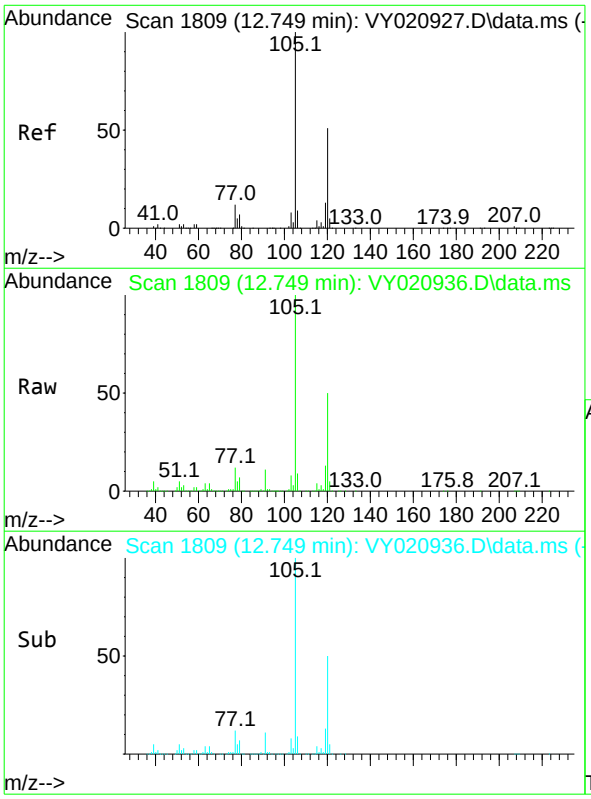
Supervised By :Semsettin Yesilyurt 01/28/2025

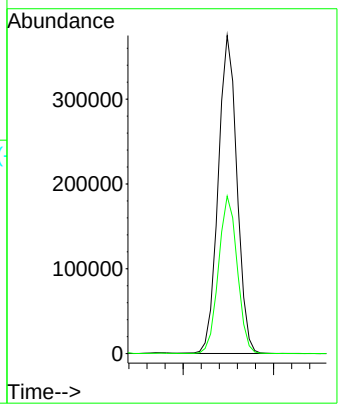


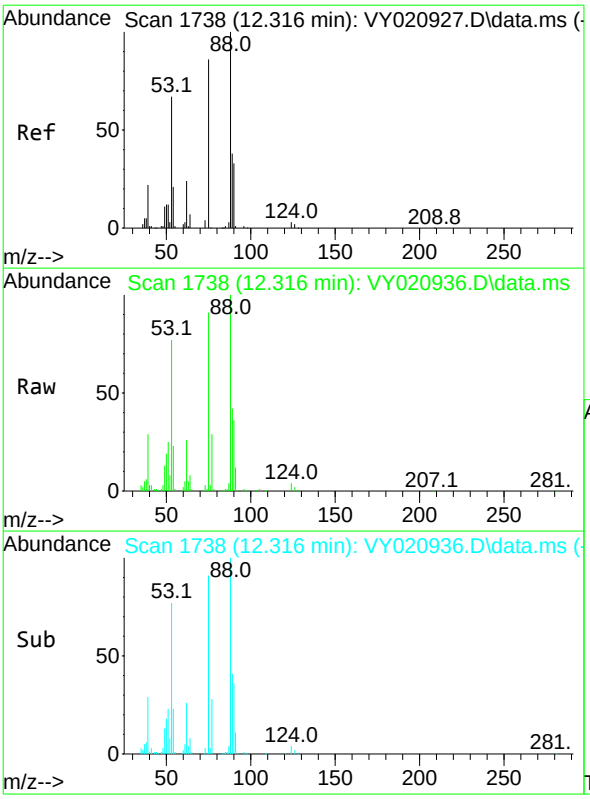




#80
1,3,5-Trimethylbenzene
Concen: 58.713 ug/l
RT: 12.749 min Scan# 1809
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:105 Resp: 539872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.6 | 24.9 | 74.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 59.924 ug/l
RT: 12.316 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 75 Resp: 36438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 86.2 | 67.7 | 101.5 |
| 89 | 46.7 | 38.4 | 57.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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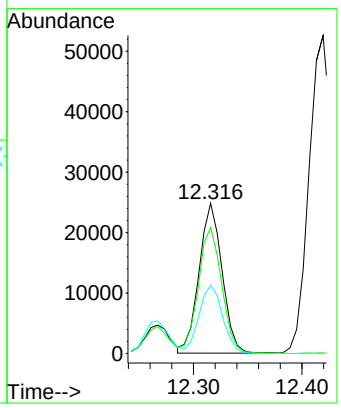
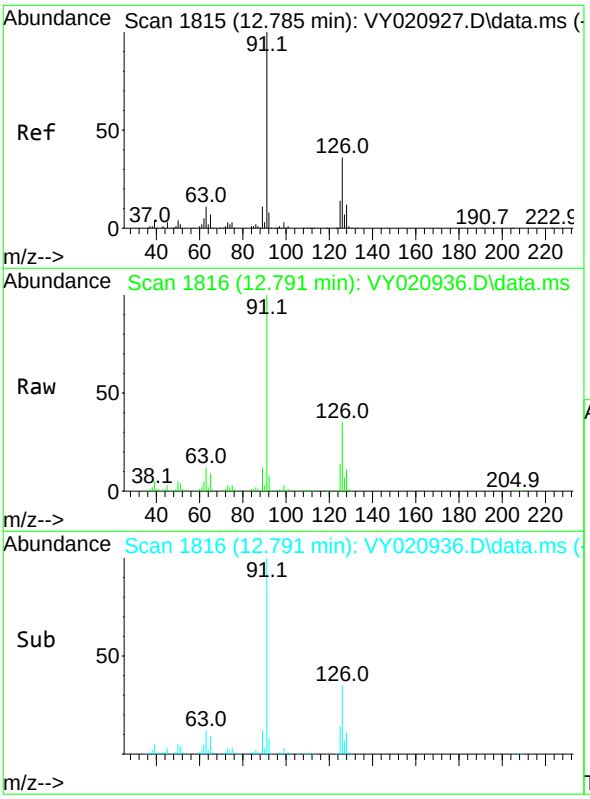
Supervised By :Semsettin Yesilyurt 01/28/2025

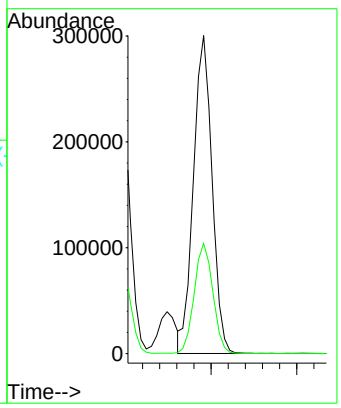


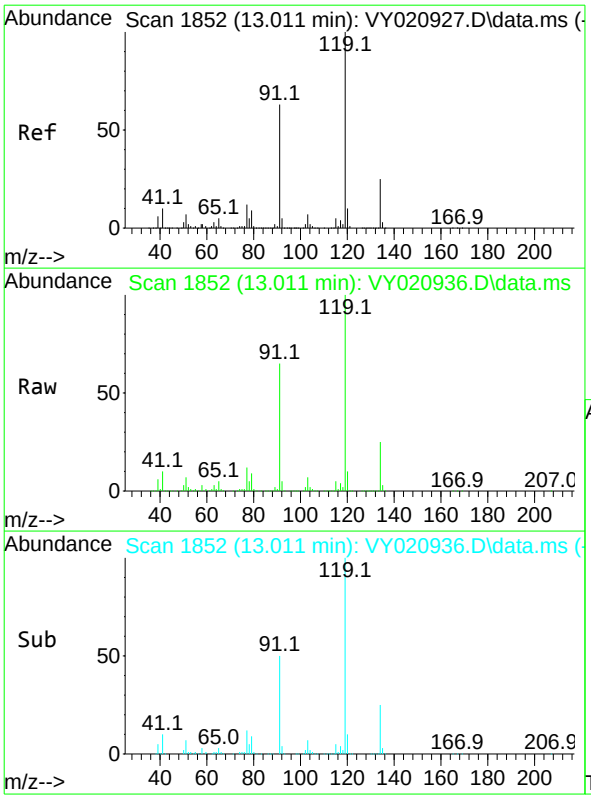




#82
4-Chlorotoluene
Concen: 58.537 ug/l
RT: 12.791 min Scan# 1816
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 91 Resp: 451910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.8 | 17.4 | 52.3 |






#83
tert-Butylbenzene
Concen: 58.695 ug/l
RT: 13.011 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

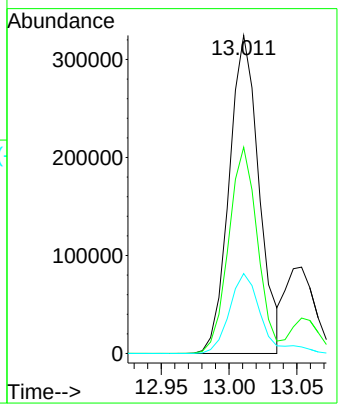
Tgt Ion:119 Resp: 497809

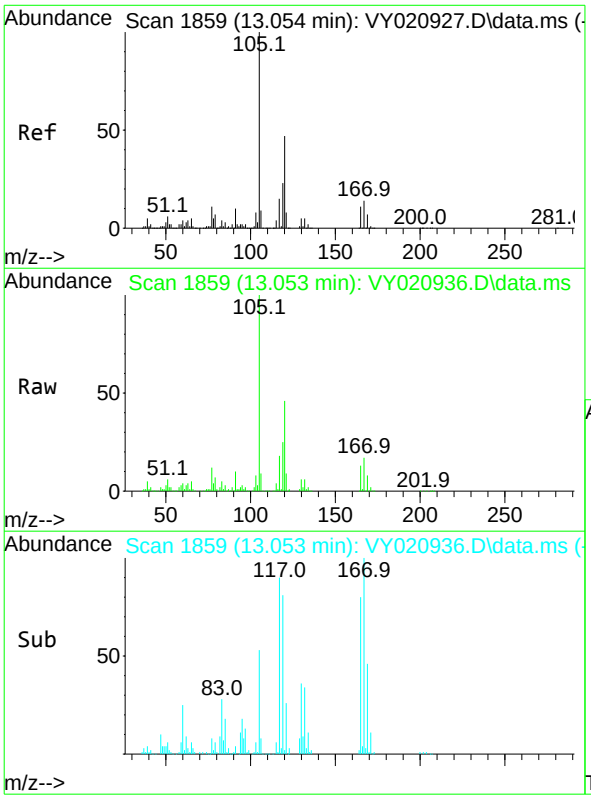
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 62.5 | 30.9 | 92.8 |
| 134 | 26.9 | 13.1 | 39.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

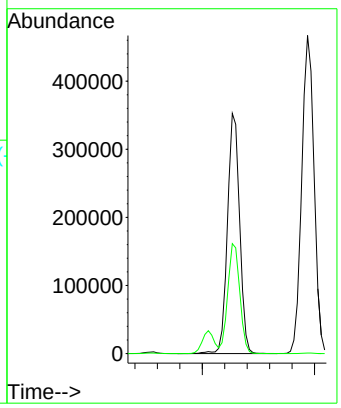


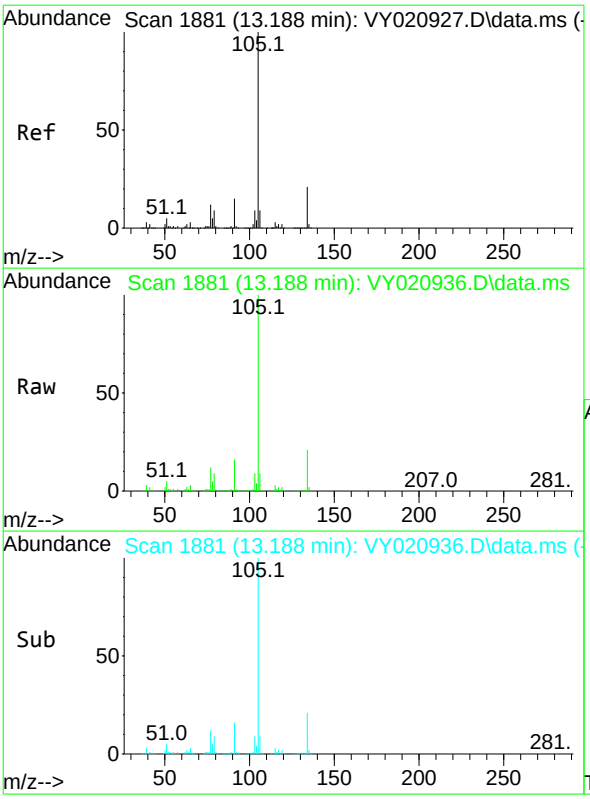




#84
1,2,4-Trimethylbenzene
Concen: 58.499 ug/l
RT: 13.053 min Scan# 1859
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:105 Resp: 529539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.4 | 22.9 | 68.7 |






#85
sec-Butylbenzene
Concen: 58.904 ug/l
RT: 13.188 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:105 Resp: 712269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.7 | 10.4 | 31.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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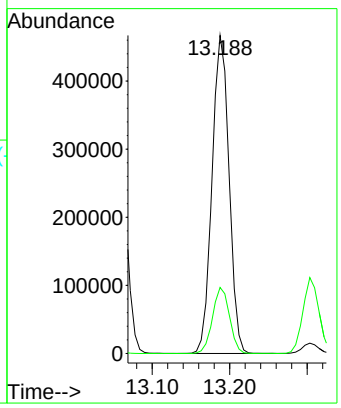
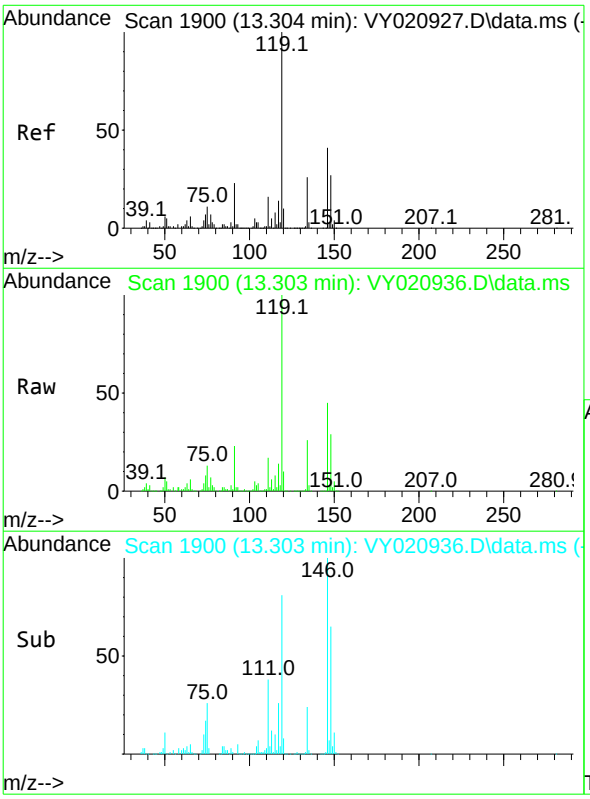
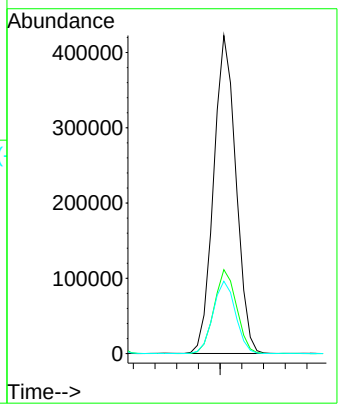


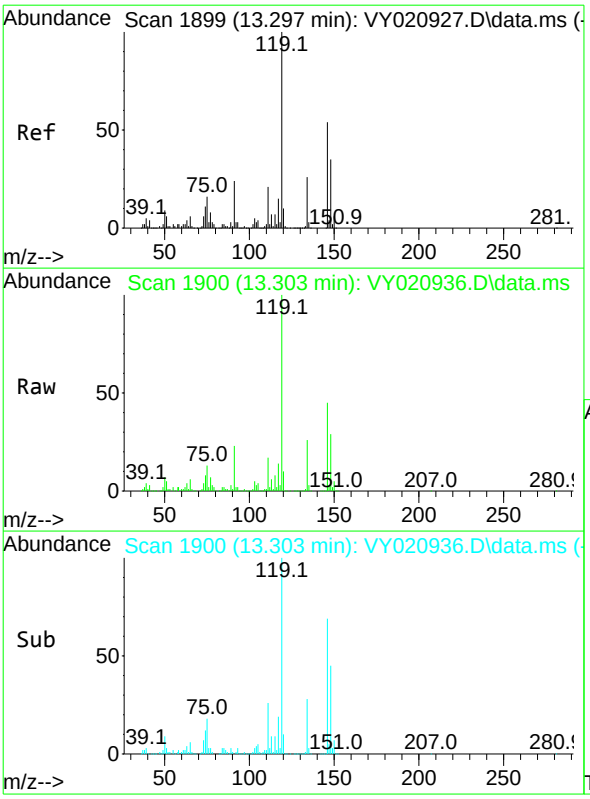




#86
p-Isopropyltoluene
Concen: 59.059 ug/l
RT: 13.303 min Scan# 1900
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:119 Resp: 603344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 13.3 | 39.8 |
| 91 | 22.9 | 11.6 | 34.7 |






#87
1,3-Dichlorobenzene
Concen: 56.994 ug/l
RT: 13.303 min Scan# 19
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:146 Resp: 292758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.9 | 19.4 | 58.2 |
| 148 | 64.6 | 31.9 | 95.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
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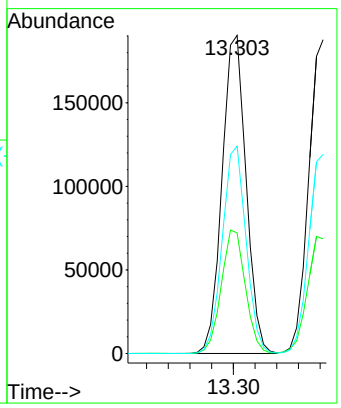
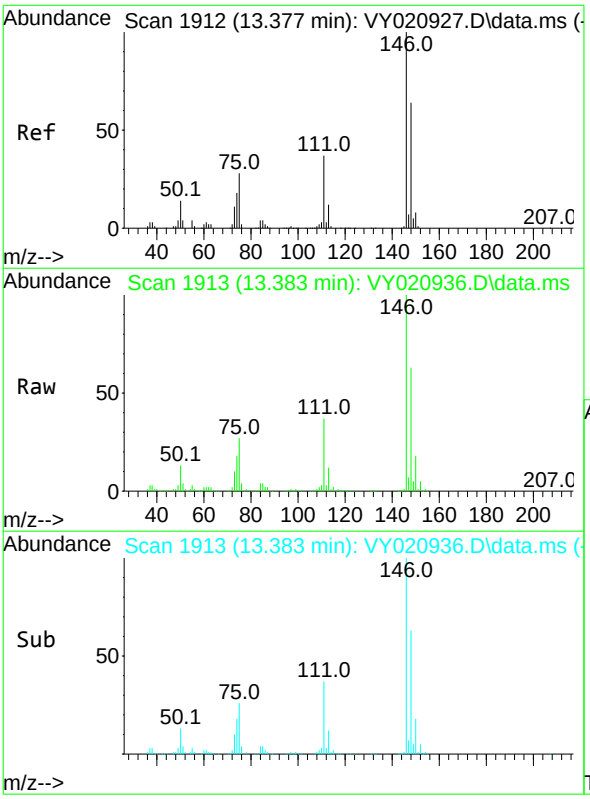
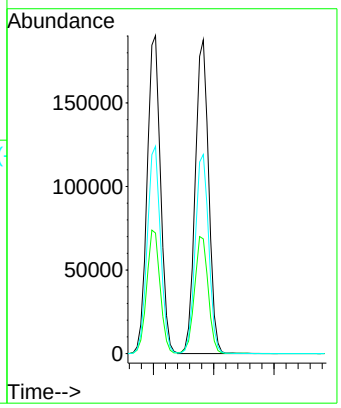


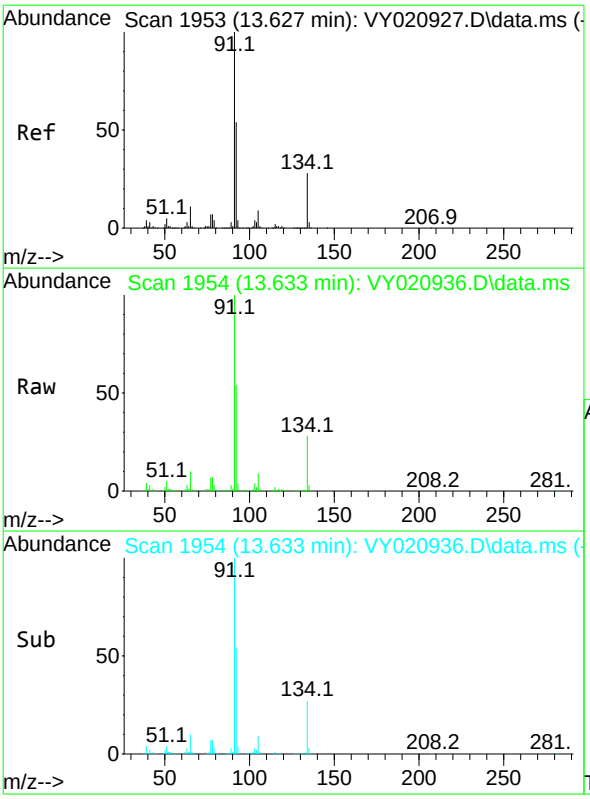




#88
1,4-Dichlorobenzene
Concen: 57.538 ug/l
RT: 13.383 min Scan# 1913
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:146 Resp: 290326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.7 | 18.8 | 56.4 |
| 148 | 63.8 | 32.0 | 96.0 |






#89
n-Butylbenzene
Concen: 59.745 ug/l
RT: 13.633 min Scan# 19
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

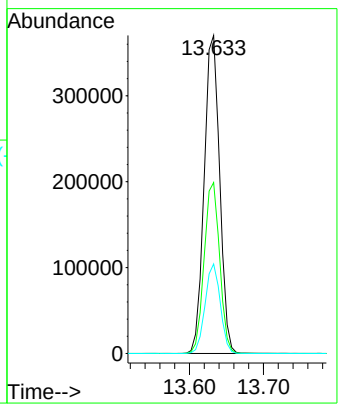
Tgt Ion: 91 Resp: 538373

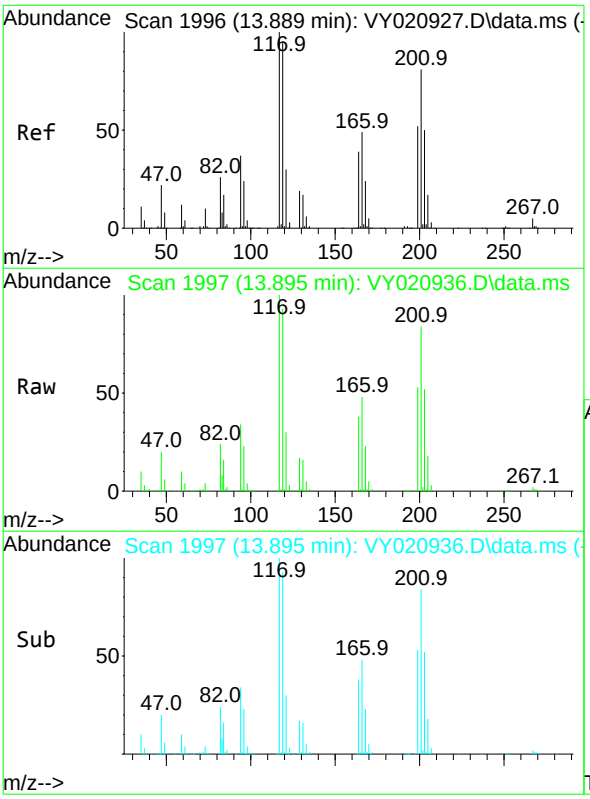
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.7 | 26.8 | 80.3 |
| 134 | 27.6 | 13.8 | 41.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

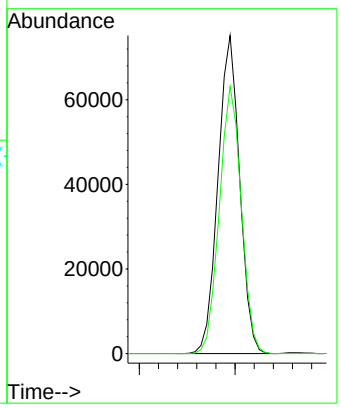


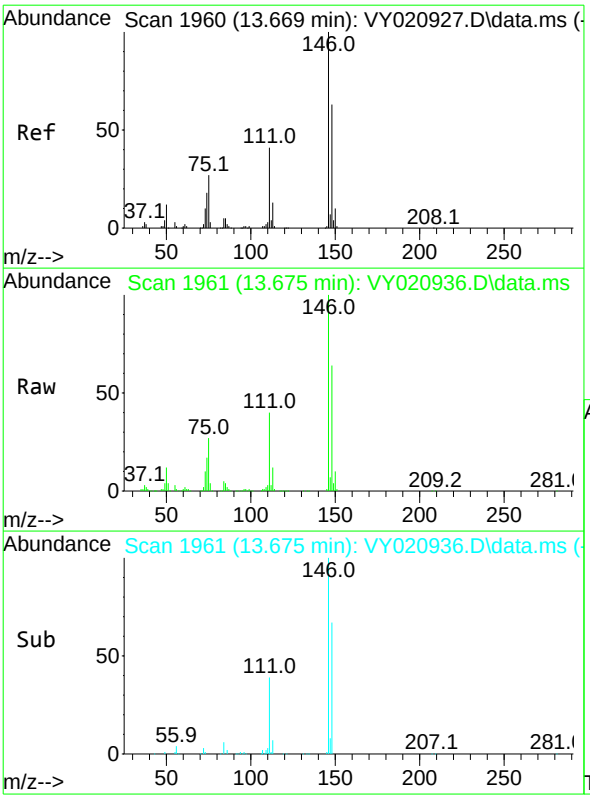




#90
Hexachloroethane
Concen: 58.150 ug/l
RT: 13.895 min Scan# 1997
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:117 Resp: 118009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 85.0 | 42.7 | 128.1 |






#91
1,2-Dichlorobenzene
Concen: 57.308 ug/l
RT: 13.675 min Scan# 19
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

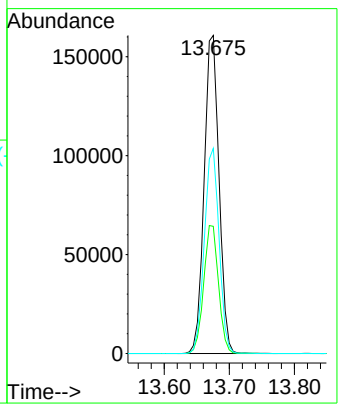
Tgt Ion:146 Resp: 255038

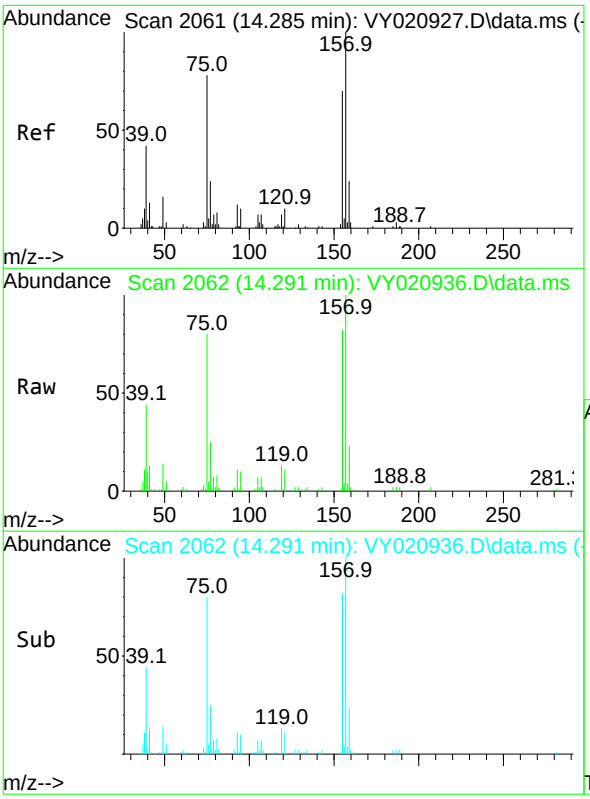
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.1 | 20.2 | 60.6 |
| 148 | 63.9 | 32.2 | 96.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

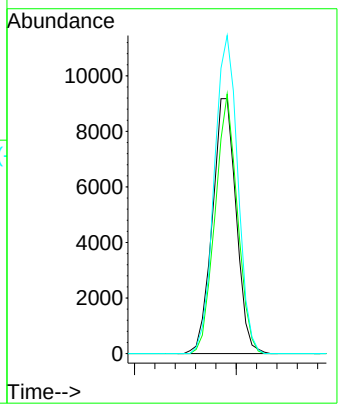


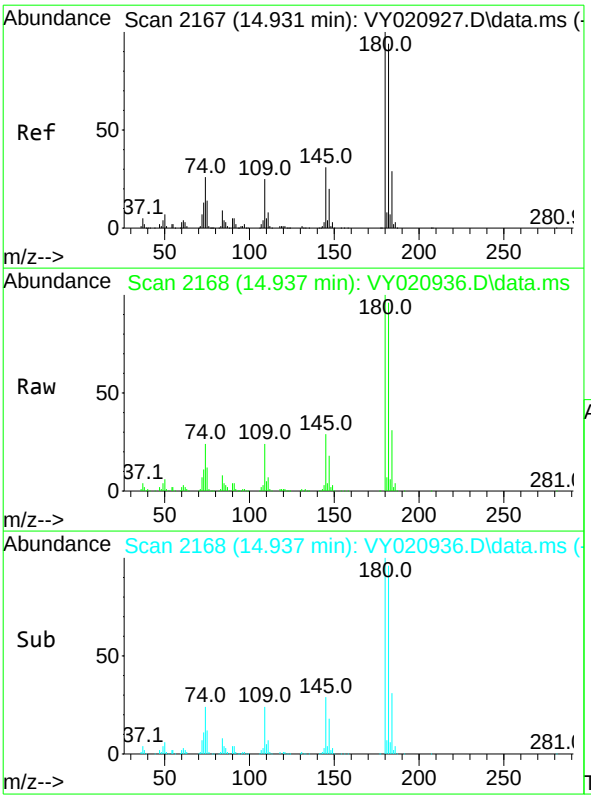




#92
1,2-Dibromo-3-Chloropropane
Concen: 55.680 ug/l
RT: 14.291 min Scan# 2062
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion: 75 Resp: 14893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 95.1 | 46.6 | 139.7 |
| 157 | 122.7 | 60.1 | 180.3 |






#93
1,2,4-Trichlorobenzene
Concen: 59.043 ug/l
RT: 14.937 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

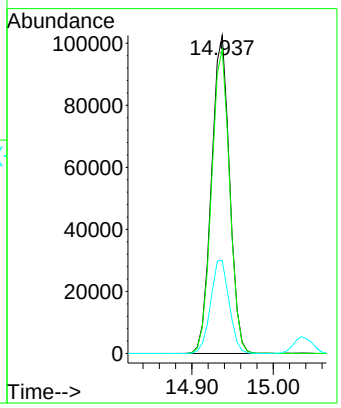
Tgt Ion:180 Resp: 158069

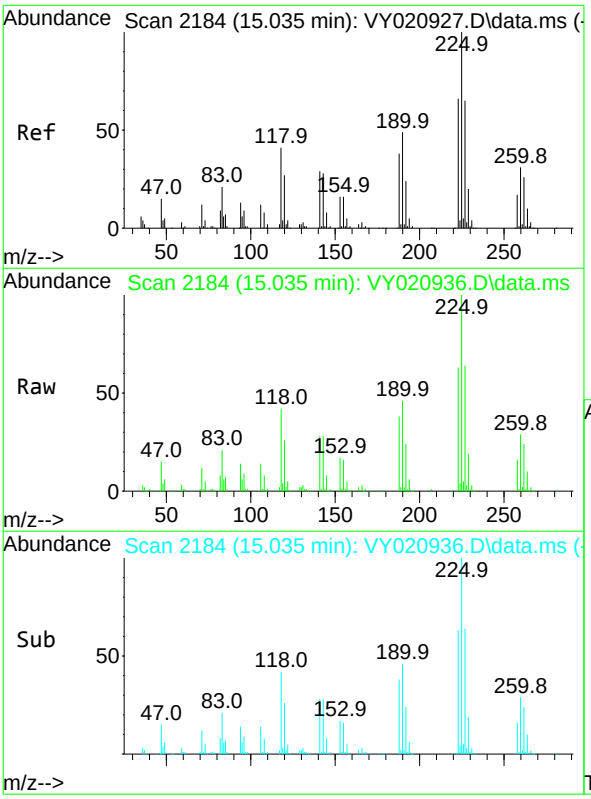
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.8 | 47.0 | 141.2 |
| 145 | 30.0 | 14.9 | 44.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

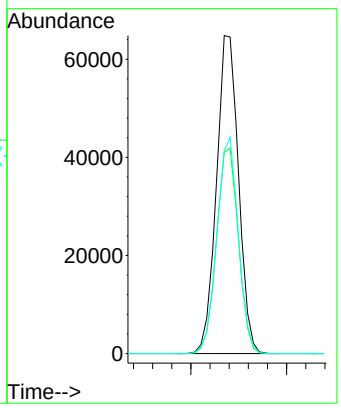


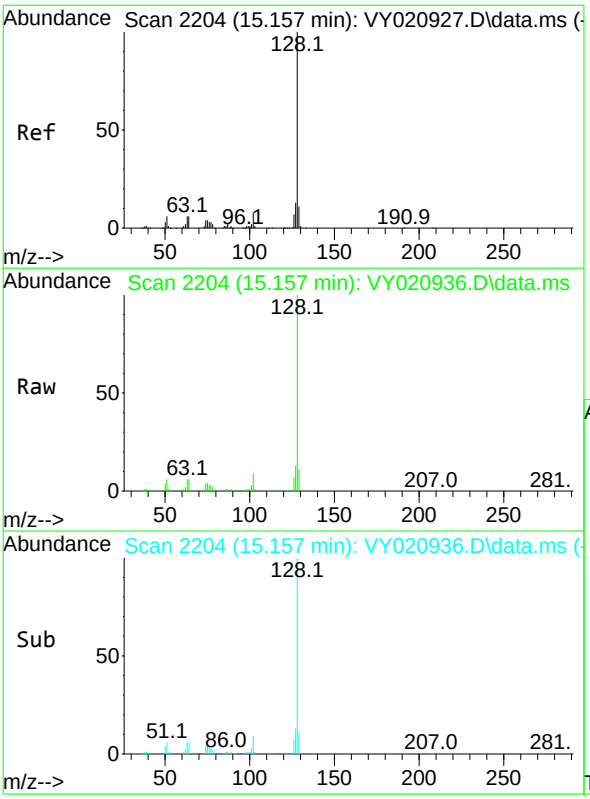




#94
Hexachlorobutadiene
Concen: 56.578 ug/l
RT: 15.035 min Scan# 2184
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:225 Resp: 103632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.2 | 31.5 | 94.5 |
| 227 | 65.9 | 31.9 | 95.9 |






#95
Naphthalene
Concen: 59.162 ug/l
RT: 15.157 min Scan# 22
Delta R.T. -0.000 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

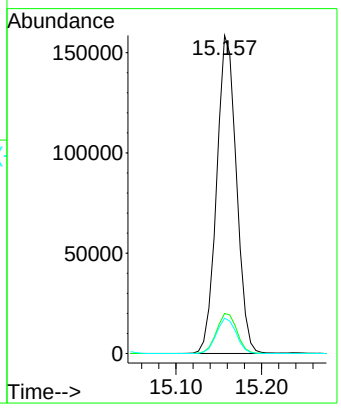
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

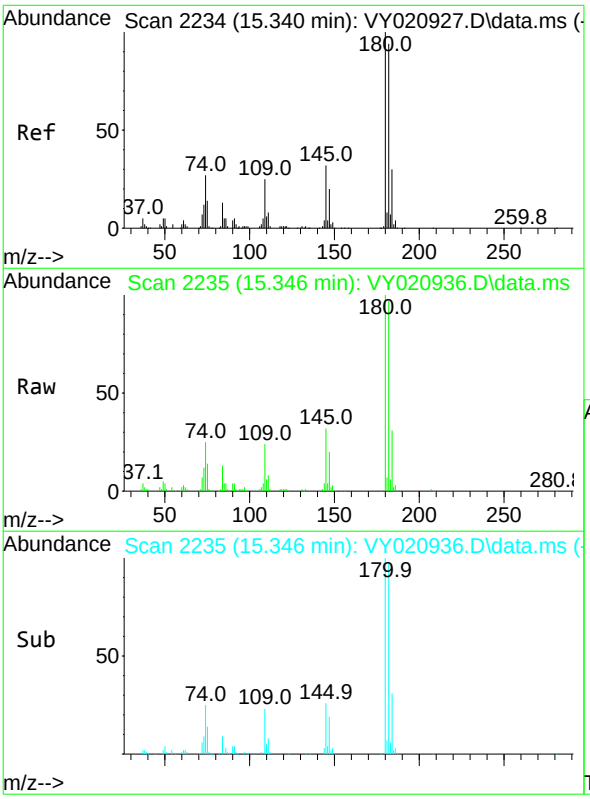
Tgt Ion:128 Resp: 253984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.3 | 15.5 |
| 129 | 11.1 | 8.8 | 13.2 |

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

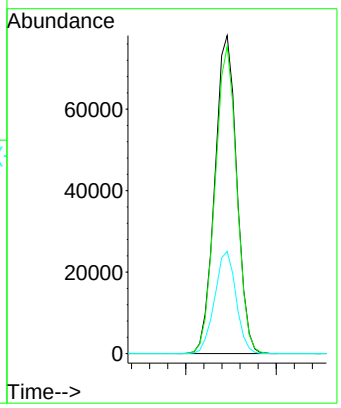



#96
1,2,3-Trichlorobenzene
Concen: 58.446 ug/l
RT: 15.346 min Scan# 2235
Delta R.T. 0.006 min
Lab File: VY020936.D
Acq: 27 Jan 2025 09:06

Tgt Ion:180 Resp: 131457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 47.5 | 142.6 |
| 145 | 31.4 | 15.7 | 47.0 |



Sample Results: **VY020936.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020936.D
Acq On : 27 Jan 2025 09:06
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: Jan 28 01:07:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 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 | 108 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.378 | 0.432 | -14.3 | 122 | 0.00 |
| 3 | P | Chloromethane | 0.281 | 0.332 | -18.1 | 128 | 0.00 |
| 4 | C | Vinyl Chloride | 0.307 | 0.358 | -16.6# | 124 | 0.00 |
| 5 | T | Bromomethane | 0.208 | 0.238 | -14.4 | 130 | 0.00 |
| 6 | T | Chloroethane | 0.180 | 0.214 | -18.9 | 125 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.651 | 0.764 | -17.4 | 125 | 0.00 |
| 8 | T | Diethyl Ether | 0.200 | 0.233 | -16.5 | 122 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.430 | 0.497 | -15.6 | 124 | 0.00 |
| 10 | T | Methyl Iodide | 0.512 | 0.588 | -14.8 | 117 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.031 | 0.027 | 12.9 | 112 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.406 | 0.474 | -16.7# | 126 | 0.00 |
| 13 | T | Acrolein | 0.042 | 0.050 | -19.0 | 117 | 0.00 |
| 14 | T | Allyl chloride | 0.566 | 0.669 | -18.2 | 125 | 0.00 |
| 15 | T | Acrylonitrile | 0.079 | 0.091 | -15.2 | 116 | 0.01 |
| 16 | T | Acetone | 0.054 | 0.061 | -13.0 | 115 | 0.00 |
| 17 | T | Carbon Disulfide | 1.253 | 1.464 | -16.8 | 124 | 0.00 |
| 18 | T | Methyl Acetate | 0.195 | 0.223 | -14.4 | 116 | 0.01 |
| 19 | T | Methyl tert-butyl Ether | 0.940 | 1.102 | -17.2 | 122 | 0.00 |
| 20 | T | Methylene Chloride | 0.402 | 0.453 | -12.7 | 122 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.438 | 0.506 | -15.5 | 123 | 0.00 |
| 22 | T | Diisopropyl ether | 1.139 | 1.344 | -18.0 | 123 | 0.00 |
| 23 | T | Vinyl Acetate | 0.631 | 0.745 | -18.1 | 119 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.722 | 0.844 | -16.9 | 124 | 0.00 |
| 25 | T | 2-Butanone | 0.091 | 0.104 | -14.3 | 116 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.711 | 0.808 | -13.6 | 125 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.494 | 0.569 | -15.2 | 123 | 0.00 |
| 28 | T | Bromochloromethane | 0.291 | 0.300 | -3.1 | 109 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.061 | 0.071 | -16.4 | 116 | 0.00 |
| 30 | C | Chloroform | 0.764 | 0.882 | -15.4# | 123 | 0.00 |
| 31 | T | Cyclohexane | 0.710 | 0.786 | -10.7 | 125 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.742 | 0.845 | -13.9 | 121 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.399 | 0.429 | -7.5 | 104 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 107 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.287 | 0.316 | -10.1 | 106 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.401 | 0.468 | -16.7 | 122 | 0.00 |
| 37 | T | Ethyl Acetate | 0.155 | 0.177 | -14.2 | 116 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.483 | 0.561 | -16.1 | 122 | 0.00 |
| 39 | T | Methylcyclohexane | 0.543 | 0.639 | -17.7 | 123 | 0.00 |
| 40 | TM | Benzene | 1.176 | 1.370 | -16.5 | 122 | 0.00 |
| 41 | T | Methacrylonitrile | 0.082 | 0.093 | -13.4 | 109 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.293 | 0.342 | -16.7 | 120 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.295 | 0.347 | -17.6 | 117 | 0.00 |
| 44 | TM | Trichloroethene | 0.319 | 0.371 | -16.3 | 123 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.260 | 0.303 | -16.5# | 121 | 0.00 |
| 46 | T | Dibromomethane | 0.148 | 0.173 | -16.9 | 119 | 0.00 |
| 47 | T | Bromodichloromethane | 0.393 | 0.455 | -15.8 | 120 | 0.00 |
| 48 | T | Methyl methacrylate | 0.139 | 0.165 | -18.7 | 119 | 0.00 |

Sample Results: **VY020936.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020936.D
Acq On : 27 Jan 2025 09:06
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: Jan 28 01:07:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 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 | 109 | 0.01 |
| 50 | S | Toluene-d8 | 1.113 | 1.231 | -10.6 | 105 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.149 | 0.174 | -16.8 | 115 | 0.00 |
| 52 | CM | Toluene | 0.756 | 0.890 | -17.7# | 122 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.360 | 0.424 | -17.8 | 120 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.430 | 0.504 | -17.2 | 121 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.199 | 0.232 | -16.6 | 120 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.261 | 0.317 | -21.5 | 119 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.339 | 0.397 | -17.1 | 120 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.119 | 0.139 | -16.8 | 119 | 0.00 |
| 59 | T | 2-Hexanone | 0.096 | 0.115 | -19.8 | 116 | 0.00 |
| 60 | T | Dibromochloromethane | 0.281 | 0.328 | -16.7 | 121 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.191 | 0.217 | -13.6 | 117 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.371 | 0.409 | -10.2 | 105 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 64 | T | Tetrachloroethene | 0.348 | 0.406 | -16.7 | 123 | 0.00 |
| 65 | PM | Chlorobenzene | 0.978 | 1.131 | -15.6 | 121 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.347 | 0.399 | -15.0 | 119 | 0.00 |
| 67 | C | Ethyl Benzene | 1.706 | 1.996 | -17.0# | 120 | 0.00 |
| 68 | T | m/p-Xylenes | 0.653 | 0.765 | -17.2 | 121 | 0.00 |
| 69 | T | o-Xylene | 0.610 | 0.723 | -18.5 | 122 | 0.00 |
| 70 | T | Styrene | 1.000 | 1.197 | -19.7 | 121 | 0.00 |
| 71 | P | Bromoform | 0.197 | 0.235 | -19.3 | 120 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 107 | 0.00 |
| 73 | T | Isopropylbenzene | 3.444 | 4.024 | -16.8 | 121 | 0.00 |
| 74 | T | N-amyl acetate | 0.613 | 0.722 | -17.8 | 115 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.536 | 0.613 | -14.4 | 116 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.354 | 0.461 | -30.2# | 125 | 0.00 |
| 77 | T | Bromobenzene | 0.807 | 0.914 | -13.3 | 118 | 0.00 |
| 78 | T | n-propylbenzene | 4.011 | 4.703 | -17.3 | 121 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.275 | 2.628 | -15.5 | 121 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.767 | 3.249 | -17.4 | 122 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.183 | 0.219 | -19.7 | 118 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.323 | 2.720 | -17.1 | 122 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.552 | 2.996 | -17.4 | 119 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.724 | 3.187 | -17.0 | 121 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.639 | 4.287 | -17.8 | 123 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.074 | 3.631 | -18.1 | 122 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.546 | 1.762 | -14.0 | 119 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.518 | 1.747 | -15.1 | 121 | 0.00 |
| 89 | T | n-Butylbenzene | 2.712 | 3.240 | -19.5 | 122 | 0.00 |
| 90 | T | Hexachloroethane | 0.611 | 0.710 | -16.2 | 122 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.339 | 1.535 | -14.6 | 119 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.080 | 0.090 | -12.5 | 114 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.806 | 0.951 | -18.0 | 122 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.551 | 0.624 | -13.2 | 120 | 0.00 |
| 95 | T | Naphthalene | 1.292 | 1.529 | -18.3 | 118 | 0.00 |

Sample Results: **VY020936.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020936.D
Acq On : 27 Jan 2025 09:06
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: Jan 28 01:07:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 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 | 0.677 | 0.791 | -16.8 | 121 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Sample Results: **VY020936.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020936.D
Acq On : 27 Jan 2025 09:06
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: Jan 28 01:07:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 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 | 108 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 57.091 | -14.2 | 122 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 59.036 | -18.1 | 128 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 58.439 | -16.9# | 124 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 57.312 | -14.6 | 130 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 59.535 | -19.1 | 125 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 58.661 | -17.3 | 125 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 58.174 | -16.3 | 122 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 57.822 | -15.6 | 124 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 57.406 | -14.8 | 117 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 223.319 | 10.7 | 112 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 58.412 | -16.8# | 126 | 0.00 |
| 13 | T | Acrolein | 250.000 | 297.402 | -19.0 | 117 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 59.015 | -18.0 | 125 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 288.714 | -15.5 | 116 | 0.01 |
| 16 | T | Acetone | 250.000 | 283.333 | -13.3 | 115 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 58.401 | -16.8 | 124 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 57.130 | -14.3 | 116 | 0.01 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 58.620 | -17.2 | 122 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 56.380 | -12.8 | 122 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 57.786 | -15.6 | 123 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 58.981 | -18.0 | 123 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 295.513 | -18.2 | 119 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 58.413 | -16.8 | 124 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 284.017 | -13.6 | 116 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 56.769 | -13.5 | 125 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 57.617 | -15.2 | 123 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 51.533 | -3.1 | 109 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 291.972 | -16.8 | 116 | 0.00 |
| 30 | C | Chloroform | 50.000 | 57.699 | -15.4# | 123 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 55.361 | -10.7 | 125 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 56.985 | -14.0 | 121 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 53.820 | -7.6 | 104 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 107 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 55.044 | -10.1 | 106 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 58.440 | -16.9 | 122 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 56.949 | -13.9 | 116 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 58.090 | -16.2 | 122 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 58.909 | -17.8 | 123 | 0.00 |
| 40 | TM | Benzene | 50.000 | 58.254 | -16.5 | 122 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 56.852 | -13.7 | 109 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 58.460 | -16.9 | 120 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 58.911 | -17.8 | 117 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 58.016 | -16.0 | 123 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 58.391 | -16.8# | 121 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 58.732 | -17.5 | 119 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 57.966 | -15.9 | 120 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 59.152 | -18.3 | 119 | 0.00 |

Sample Results: **VY020936.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020936.D
Acq On : 27 Jan 2025 09:06
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: Jan 28 01:07:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 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 | 1130.869 | -13.1 | 109 | 0.01 |
| 50 | S | Toluene-d8 | 50.000 | 55.293 | -10.6 | 105 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 292.180 | -16.9 | 115 | 0.00 |
| 52 | CM | Toluene | 50.000 | 58.871 | -17.7# | 122 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 58.931 | -17.9 | 120 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 58.669 | -17.3 | 121 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 58.264 | -16.5 | 120 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 60.666 | -21.3 | 119 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 58.615 | -17.2 | 120 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 292.868 | -17.1 | 119 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 300.455 | -20.2 | 116 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 58.346 | -16.7 | 121 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 57.005 | -14.0 | 117 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 55.179 | -10.4 | 105 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 106 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 58.394 | -16.8 | 123 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 57.822 | -15.6 | 121 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 57.398 | -14.8 | 119 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 58.508 | -17.0# | 120 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 117.148 | -17.1 | 121 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 59.216 | -18.4 | 122 | 0.00 |
| 70 | T | Styrene | 50.000 | 59.850 | -19.7 | 121 | 0.00 |
| 71 | P | Bromoform | 50.000 | 59.750 | -19.5 | 120 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 107 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 58.433 | -16.9 | 121 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 58.949 | -17.9 | 115 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 57.195 | -14.4 | 116 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 65.208 | -30.4# | 125 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 56.601 | -13.2 | 118 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 58.629 | -17.3 | 121 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 57.750 | -15.5 | 121 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 58.713 | -17.4 | 122 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 59.924 | -19.8 | 118 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 58.537 | -17.1 | 122 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 58.695 | -17.4 | 119 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 58.499 | -17.0 | 121 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 58.904 | -17.8 | 123 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 59.059 | -18.1 | 122 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 56.994 | -14.0 | 119 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 57.538 | -15.1 | 121 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 59.745 | -19.5 | 122 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 58.150 | -16.3 | 122 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 57.308 | -14.6 | 119 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 55.680 | -11.4 | 114 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 59.043 | -18.1 | 122 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 56.578 | -13.2 | 120 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 59.162 | -18.3 | 118 | 0.00 |

Sample Results: **VY020936.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020936.D
Acq On : 27 Jan 2025 09:06
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: Jan 28 01:07:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 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 | 58.446 | -16.9 | 121 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

# QC SAMPLE DATA

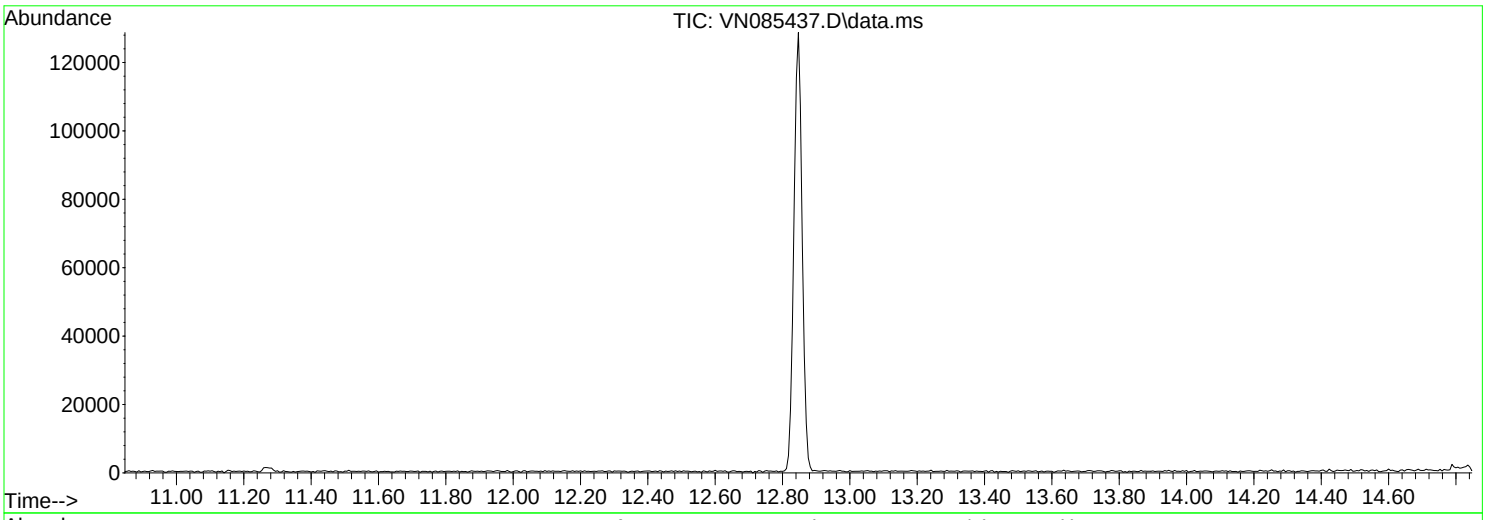
Sample Results: **VN085437.D**

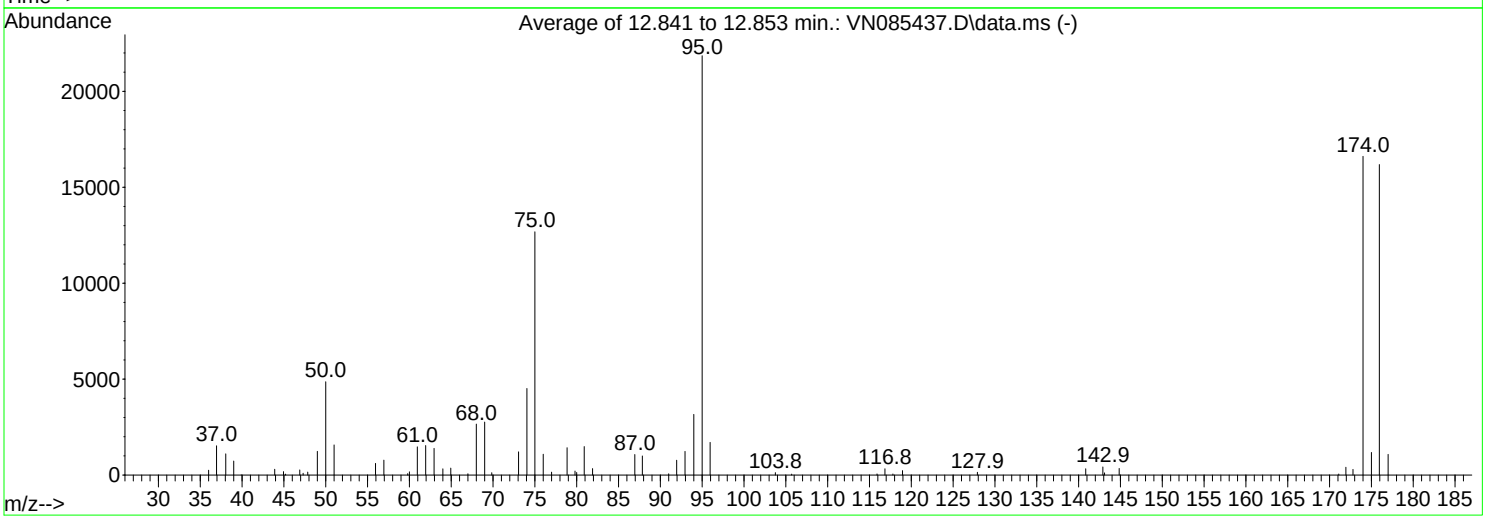
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085437.D
Acq On : 14 Jan 2025 14:22
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Title : SW846 8260
Last Update : Wed Jan 15 02:16:08 2025




AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 22.3 | 4864 | PASS |
| 75 | 95 | 30 | 60 | 58.0 | 12679 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 21856 | PASS |
| 96 | 95 | 5 | 9 | 7.8 | 1703 | PASS |
| 173 | 174 | 0.00 | 2 | 1.8 | 296 | PASS |
| 174 | 95 | 50 | 100 | 76.0 | 16613 | PASS |
| 175 | 174 | 5 | 9 | 7.1 | 1179 | PASS |
| 176 | 174 | 95 | 101 | 97.4 | 16185 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 1079 | PASS |

Average of 12.841 to 12.853 min.: VN085437.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 254 | 49.00 | 1237 | 64.95 | 364 | 79.80 | 211 |
| 36.95 | 1525 | 50.00 | 4864 | 67.00 | 71 | 80.00 | 136 |
| 38.05 | 1107 | 51.00 | 1571 | 68.00 | 2658 | 80.90 | 1487 |
| 39.00 | 730 | 55.95 | 608 | 69.00 | 2763 | 81.90 | 338 |
| 39.90 | 5 | 56.95 | 779 | 69.85 | 123 | 86.95 | 1072 |
| 43.90 | 302 | 59.80 | 76 | 73.05 | 1212 | 87.85 | 997 |
| 44.95 | 180 | 60.00 | 170 | 74.05 | 4514 | 91.00 | 68 |
| 45.20 | 50 | 60.95 | 1471 | 75.00 | 12679 | 91.95 | 773 |
| 46.90 | 269 | 61.95 | 1539 | 76.00 | 1086 | 92.95 | 1234 |
| 47.30 | 94 | 62.95 | 1390 | 77.00 | 153 | 94.00 | 3163 |
| 47.85 | 154 | 64.00 | 325 | 78.85 | 1426 | 95.00 | 21856 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
BFB

Average of 12.841 to 12.853 min.: VN085437.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 95.95 | 1703 | 144.85 | 346 | | | | |
| 103.75 | 127 | 171.10 | 56 | | | | |
| 105.70 | 51 | 171.95 | 407 | | | | |
| 115.90 | 59 | 172.80 | 296 | | | | |
| 116.85 | 327 | 174.00 | 16613 | | | | |
| 117.80 | 58 | 175.00 | 1179 | | | | |
| 118.95 | 233 | 175.95 | 16185 | | | | |
| 127.90 | 145 | 177.00 | 1079 | | | | |
| 140.85 | 328 | | | | | | |
| 142.90 | 422 | | | | | | |
| 143.10 | 115 | | | | | | |

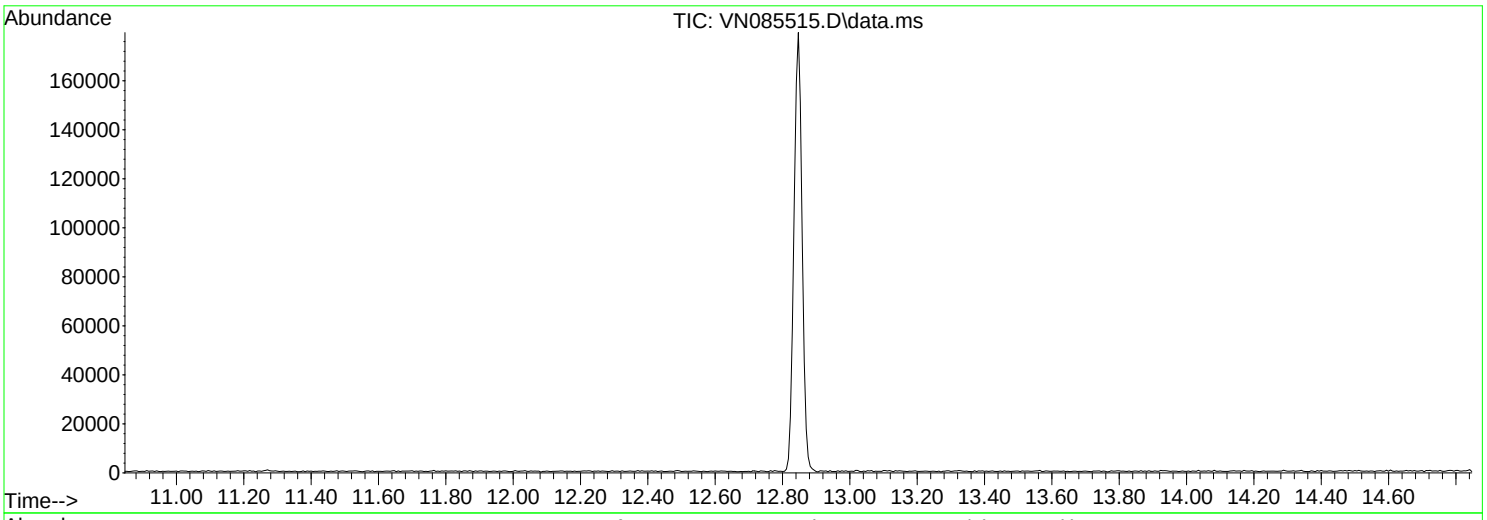
Sample Results: **VN085515.D**

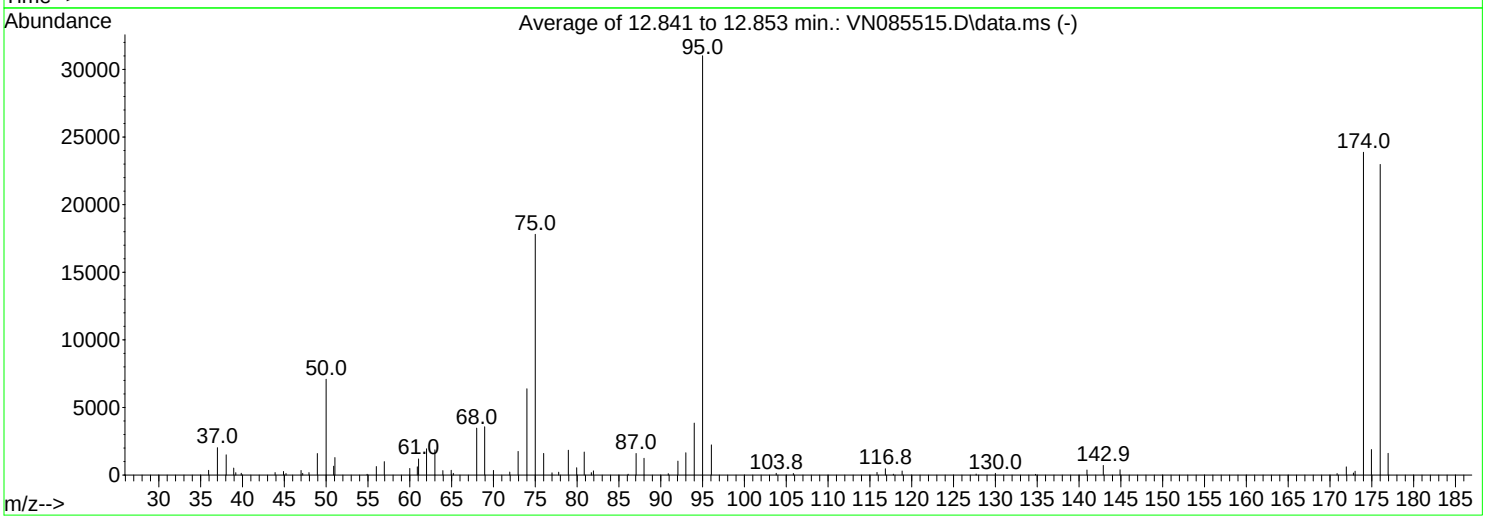
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085515.D
Acq On : 27 Jan 2025 13:08
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Title : SW846 8260
Last Update : Wed Jan 15 02:16:08 2025




AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 22.9 | 7090 | PASS |
| 75 | 95 | 30 | 60 | 57.4 | 17807 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 31013 | PASS |
| 96 | 95 | 5 | 9 | 7.2 | 2233 | PASS |
| 173 | 174 | 0.00 | 2 | 1.2 | 289 | PASS |
| 174 | 95 | 50 | 100 | 77.0 | 23872 | PASS |
| 175 | 174 | 5 | 9 | 7.9 | 1888 | PASS |
| 176 | 174 | 95 | 101 | 96.2 | 22976 | PASS |
| 177 | 176 | 5 | 9 | 7.0 | 1608 | PASS |

Average of 12.841 to 12.853 min.: VN085515.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 35.95 | 350 | 47.95 | 185 | 62.00 | 1945 | 75.00 | 17807 |
| 37.00 | 2027 | 48.95 | 1595 | 63.00 | 1868 | 76.00 | 1600 |
| 38.05 | 1498 | 50.00 | 7090 | 63.95 | 331 | 77.00 | 168 |
| 38.95 | 518 | 50.90 | 657 | 64.95 | 355 | 77.80 | 213 |
| 39.20 | 176 | 51.05 | 1297 | 65.20 | 124 | 78.95 | 1839 |
| 39.85 | 135 | 54.90 | 59 | 68.00 | 3473 | 79.95 | 544 |
| 43.90 | 187 | 56.00 | 633 | 68.95 | 3572 | 80.85 | 1705 |
| 44.90 | 267 | 56.95 | 993 | 70.00 | 343 | 81.70 | 181 |
| 45.20 | 117 | 60.00 | 491 | 71.95 | 222 | 81.95 | 312 |
| 47.00 | 341 | 60.90 | 609 | 72.95 | 1751 | 86.10 | 63 |
| 47.20 | 124 | 61.05 | 1194 | 74.00 | 6383 | 87.05 | 1596 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
BFB

Average of 12.841 to 12.853 min.: VN085515.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 88.00 | 1243 | 117.80 | 67 | 173.00 | 289 | | |
| 90.90 | 106 | 118.85 | 301 | 174.00 | 23872 | | |
| 92.05 | 1033 | 127.70 | 79 | 174.95 | 1888 | | |
| 93.00 | 1652 | 130.00 | 127 | 176.00 | 22976 | | |
| 94.00 | 3846 | 134.80 | 54 | 176.95 | 1608 | | |
| 95.00 | 31013 | 140.95 | 377 | | | | |
| 96.05 | 2233 | 142.90 | 713 | | | | |
| 103.80 | 130 | 144.90 | 394 | | | | |
| 105.85 | 116 | 170.85 | 113 | | | | |
| 115.85 | 198 | 171.95 | 608 | | | | |
| 116.85 | 468 | 172.80 | 153 | | | | |

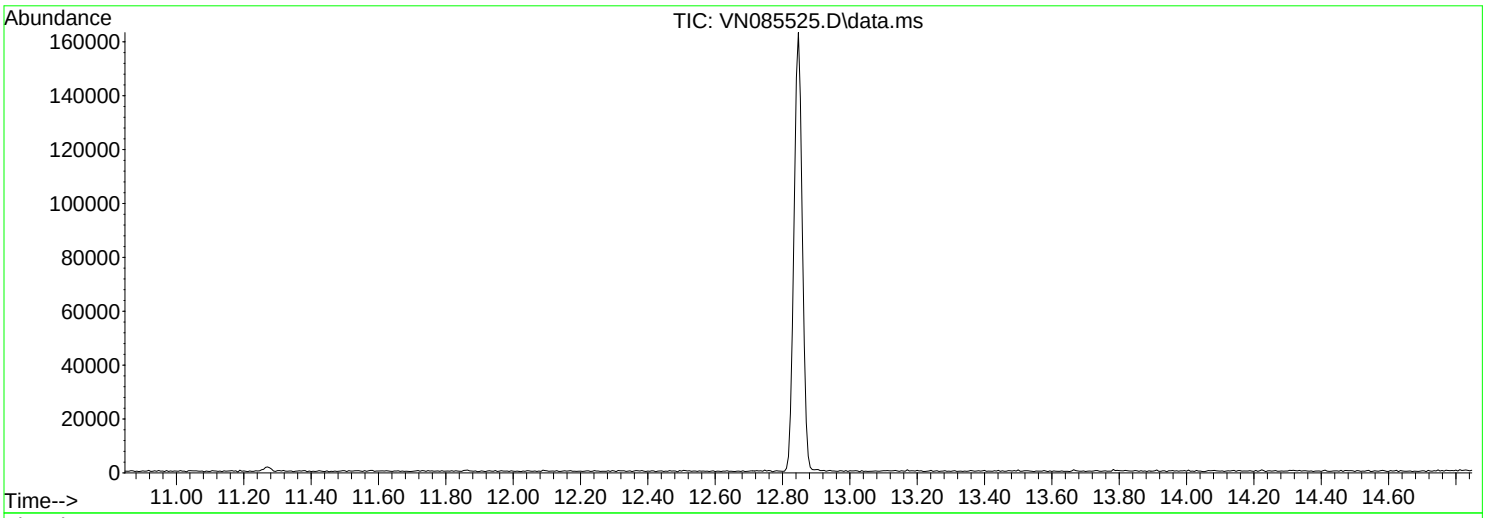
Sample Results: **VN085525.D**

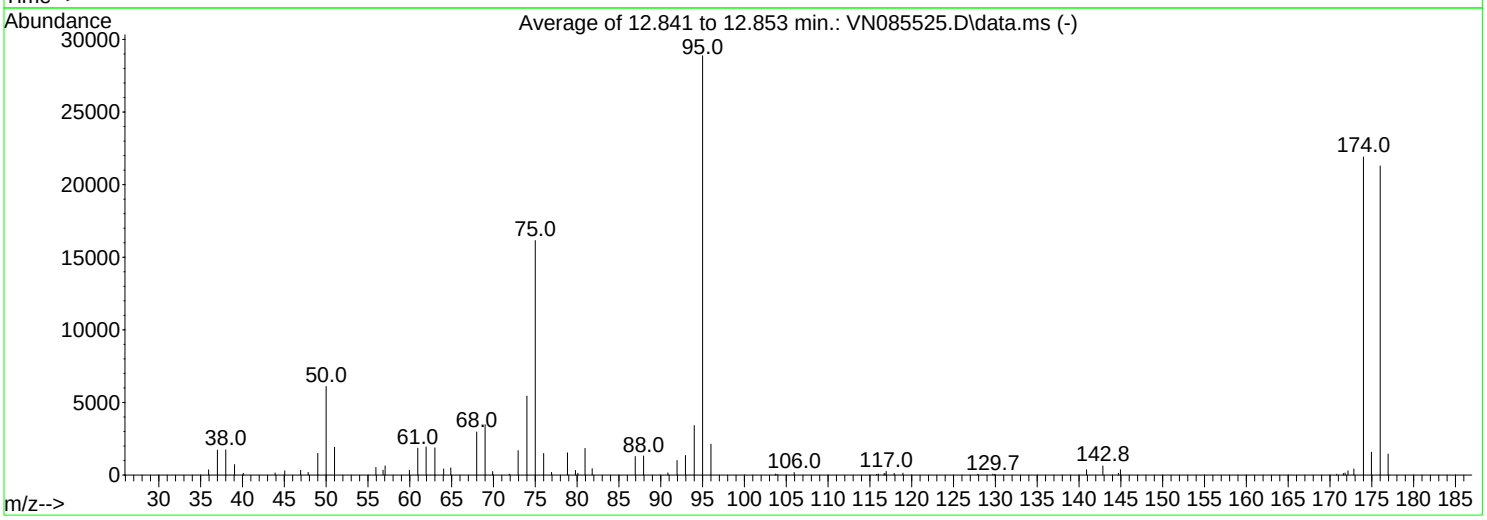
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085525.D
Acq On : 28 Jan 2025 09:17
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Title : SW846 8260
Last Update : Wed Jan 15 02:16:08 2025




AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 21.1 | 6102 | PASS |
| 75 | 95 | 30 | 60 | 55.9 | 16153 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 28877 | PASS |
| 96 | 95 | 5 | 9 | 7.4 | 2133 | PASS |
| 173 | 174 | 0.00 | 2 | 1.9 | 424 | PASS |
| 174 | 95 | 50 | 100 | 75.9 | 21904 | PASS |
| 175 | 174 | 5 | 9 | 7.2 | 1583 | PASS |
| 176 | 174 | 95 | 101 | 97.2 | 21288 | PASS |
| 177 | 176 | 5 | 9 | 6.8 | 1447 | PASS |

Average of 12.841 to 12.853 min.: VN085525.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 35.95 | 363 | 51.00 | 1921 | 69.00 | 3472 | 80.95 | 1841 |
| 37.00 | 1726 | 55.95 | 530 | 69.90 | 245 | 81.80 | 440 |
| 38.00 | 1741 | 56.80 | 336 | 71.90 | 57 | 86.95 | 1278 |
| 39.05 | 725 | 57.05 | 630 | 72.95 | 1686 | 87.95 | 1312 |
| 40.10 | 118 | 59.95 | 329 | 74.00 | 5442 | 90.85 | 154 |
| 43.90 | 145 | 60.95 | 1853 | 75.00 | 16153 | 91.95 | 1004 |
| 45.05 | 294 | 61.95 | 1942 | 76.00 | 1483 | 92.95 | 1350 |
| 46.95 | 330 | 63.00 | 1876 | 76.95 | 185 | 94.00 | 3411 |
| 47.85 | 189 | 64.05 | 424 | 78.85 | 1535 | 95.00 | 28877 |
| 49.00 | 1492 | 64.90 | 496 | 79.80 | 317 | 96.00 | 2133 |
| 50.00 | 6102 | 68.00 | 2970 | 80.10 | 130 | 103.70 | 73 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
BFB

Average of 12.841 to 12.853 min.: VN085525.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 103.90 | 55 | 129.90 | 51 | 174.95 | 1583 | | |
| 105.95 | 177 | 140.90 | 363 | 176.00 | 21288 | | |
| 115.80 | 56 | 142.85 | 633 | 176.95 | 1447 | | |
| 116.00 | 75 | 144.70 | 122 | | | | |
| 116.70 | 104 | 144.95 | 371 | | | | |
| 116.80 | 97 | 170.80 | 59 | | | | |
| 116.95 | 261 | 171.60 | 114 | | | | |
| 117.90 | 119 | 171.80 | 147 | | | | |
| 118.95 | 137 | 172.15 | 294 | | | | |
| 127.90 | 52 | 172.85 | 424 | | | | |
| 129.70 | 69 | 174.00 | 21904 | | | | |

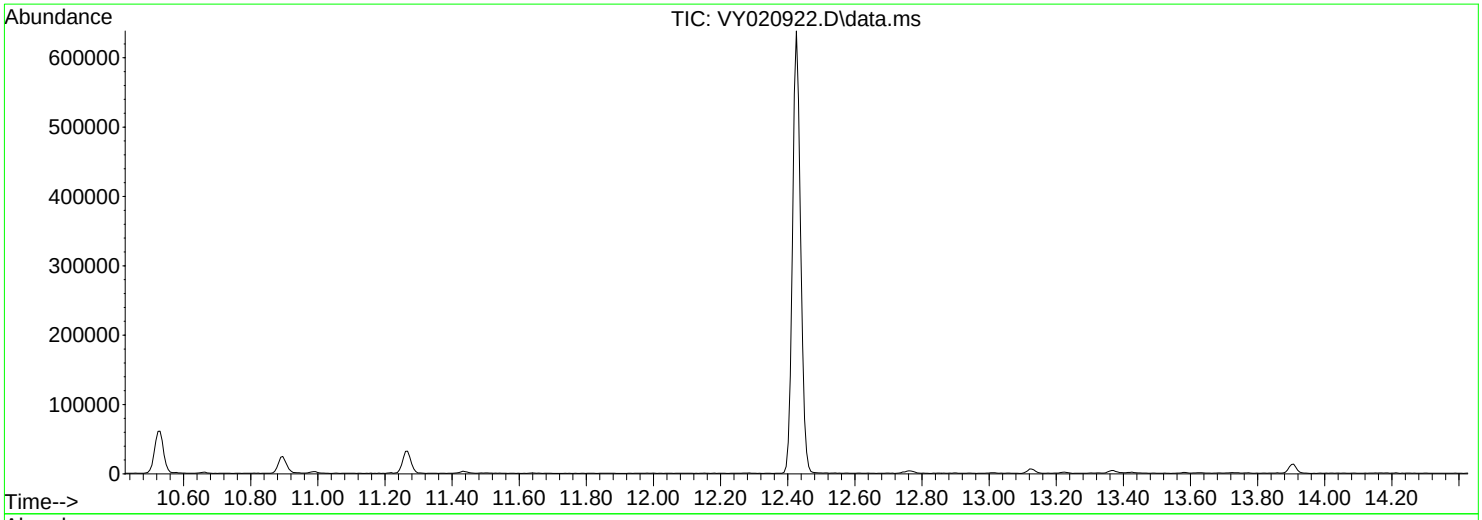
Sample Results: **VY020922.D**

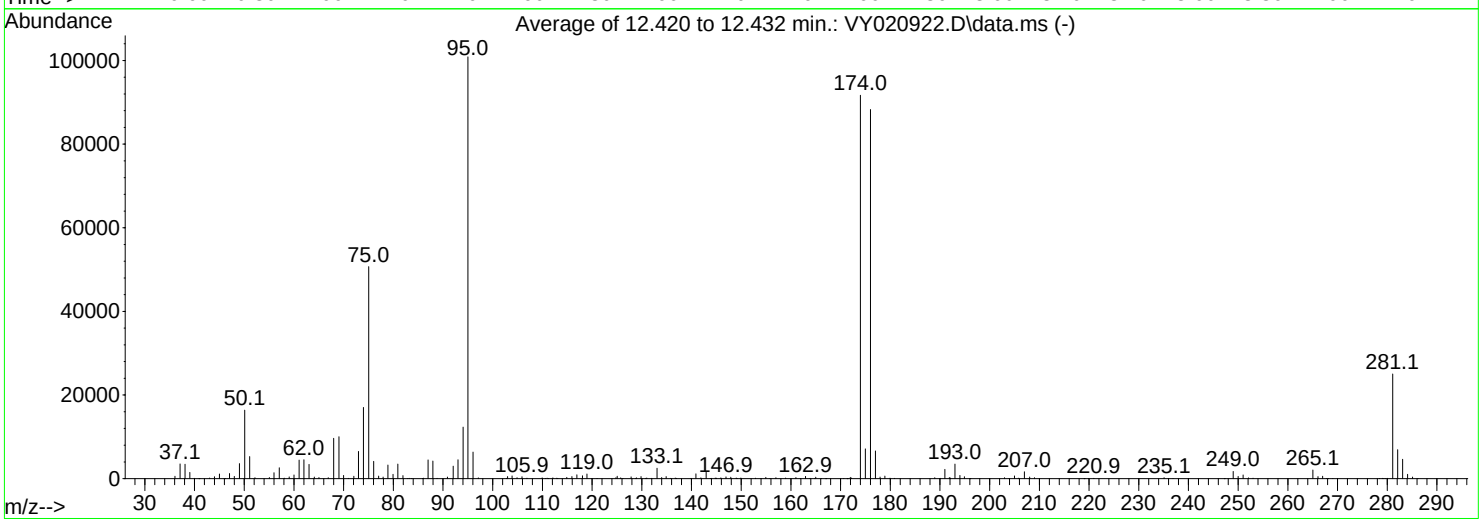
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012425\
Data File : VY020922.D
Acq On : 24 Jan 2025 08:44
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y010625S.M
Title : SW846 8260
Last Update : Thu Jan 23 00:38:42 2025




AutoFind: Scans 1755, 1756, 1757; Background Corrected with Scan 1747

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 16.3 | 16398 | PASS |
| 75 | 95 | 30 | 60 | 50.3 | 50720 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 100883 | PASS |
| 96 | 95 | 5 | 9 | 6.3 | 6375 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 90.9 | 91696 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 7103 | PASS |
| 176 | 174 | 95 | 101 | 96.3 | 88291 | PASS |
| 177 | 176 | 5 | 9 | 7.5 | 6630 | PASS |

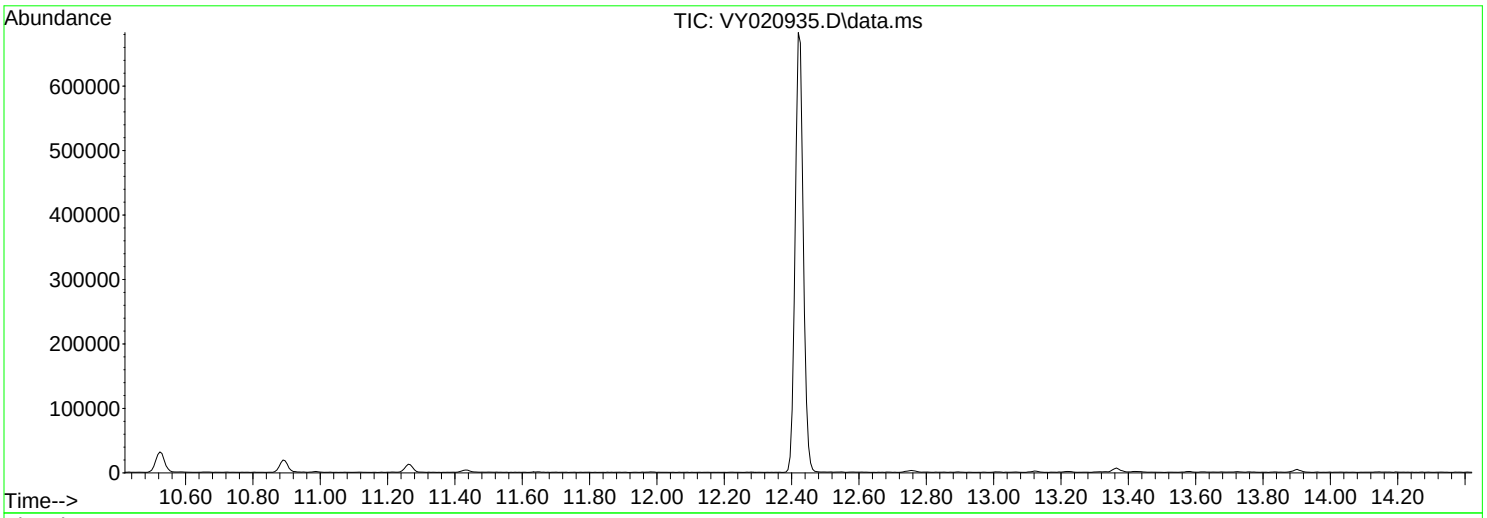
Sample Results: **VY020935.D**

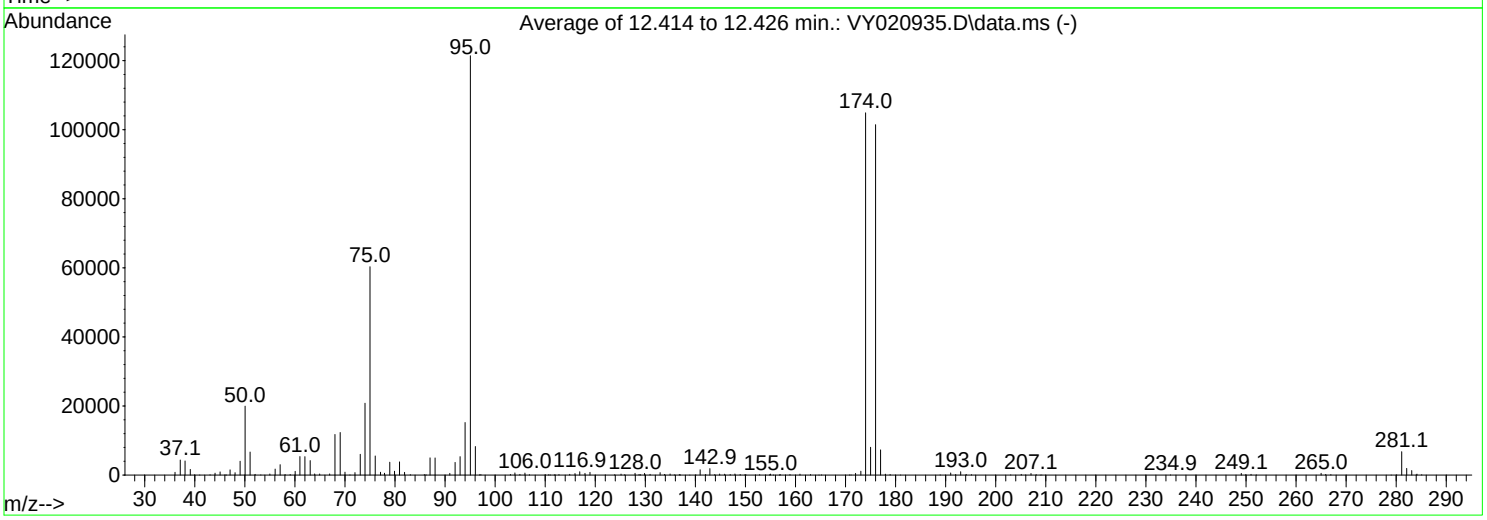
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020935.D
Acq On : 27 Jan 2025 08:32
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Title : SW846 8260
Last Update : Sat Jan 25 01:12:18 2025




AutoFind: Scans 1754, 1755, 1756; Background Corrected with Scan 1746

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 16.4 | 19955 | PASS |
| 75 | 95 | 30 | 60 | 49.7 | 60339 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 121421 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 8277 | PASS |
| 173 | 174 | 0.00 | 2 | 1.1 | 1129 | PASS |
| 174 | 95 | 50 | 100 | 86.4 | 104901 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 8049 | PASS |
| 176 | 174 | 95 | 101 | 96.7 | 101461 | PASS |
| 177 | 176 | 5 | 9 | 7.2 | 7294 | PASS |

Raw Data: **VN085518.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0127WBL01 | SDG No.: | Q1194 |
| Lab Sample ID: | VN0127WBL01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085518.D | 1 | | 01/27/25 15:48 | VN012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.35 | U | 0.35 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.56 | U | 0.56 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.34 | U | 0.34 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.32 | U | 0.32 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.60 | U | 0.60 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.32 | U | 0.32 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.60 | U | 1.60 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 1.30 | U | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.19 | U | 0.19 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.19 | U | 0.19 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.19 | U | 0.19 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.24 | U | 0.24 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.75 | U | 0.75 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.18 | U | 0.18 | 1.00 | ug/L |

Raw Data: **VN085518.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0127WBL01 | SDG No.: | Q1194 |
| Lab Sample ID: | VN0127WBL01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085518.D | 1 | | 01/27/25 15:48 | VN012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.21 | U | 0.21 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.18 | U | 0.18 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 1.10 | U | 1.10 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.31 | U | 0.31 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.14 | U | 0.14 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.21 | U | 0.21 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.27 | U | 0.27 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.24 | U | 0.24 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.27 | U | 0.27 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.46 | U | 0.46 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.42 | U | 0.42 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.51 | U | 0.51 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.2 | | 70 (74) - 130 (125) | 102% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.0 | | 70 (75) - 130 (124) | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.0 | | 70 (86) - 130 (113) | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 45.7 | | 70 (77) - 130 (121) | 91% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 198000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 347000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 297000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 117000 | 13.788 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0127WBL01 | SDG No.: | Q1194 |
| Lab Sample ID: | VN0127WBL01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085518.D | 1 | | 01/27/25 15:48 | VN012725 |

| 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

Quantitation Report (QT Reviewed)

Sample Results: **VN085518.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085518.D
Acq On : 27 Jan 2025 15:48
Operator : JC\MD
Sample : VN0127WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBL01

Quant Time: Jan 28 02:00:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 197682 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 347425 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 297114 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 116627 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 163263 | 51.164 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 102.320% | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 122921 | 50.999 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 102.000% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 427942 | 49.972 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 99.940% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 134001 | 45.743 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 91.480% | | | |

Target Compounds Qvalue

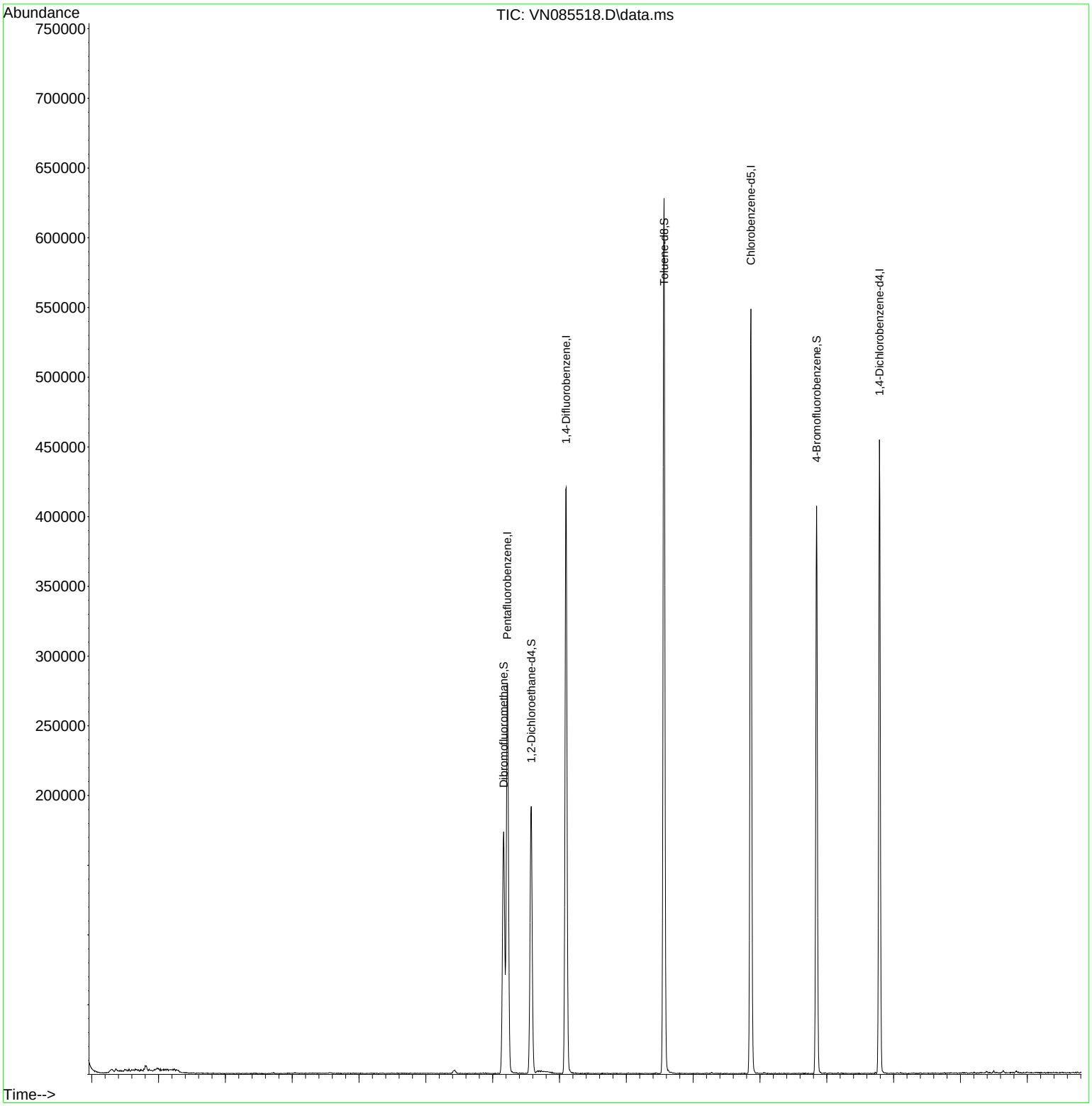
(#) = qualifier out of range (m) = manual integration (+) = signals summed

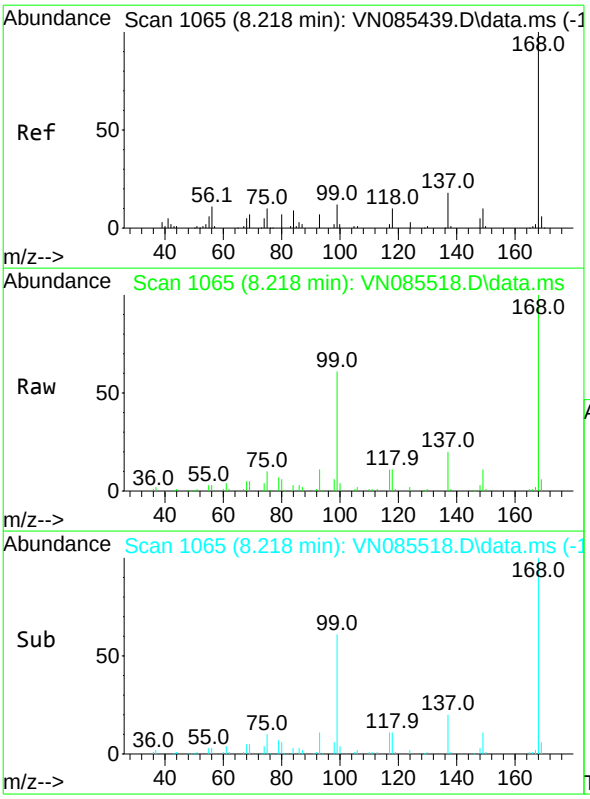
Sample Results: **VN085518.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085518.D
Acq On : 27 Jan 2025 15:48
Operator : JC\MD
Sample : VN0127WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBL01

Quant Time: Jan 28 02:00:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



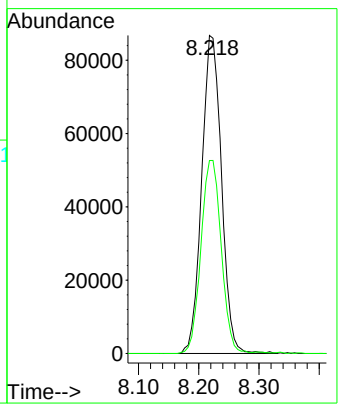


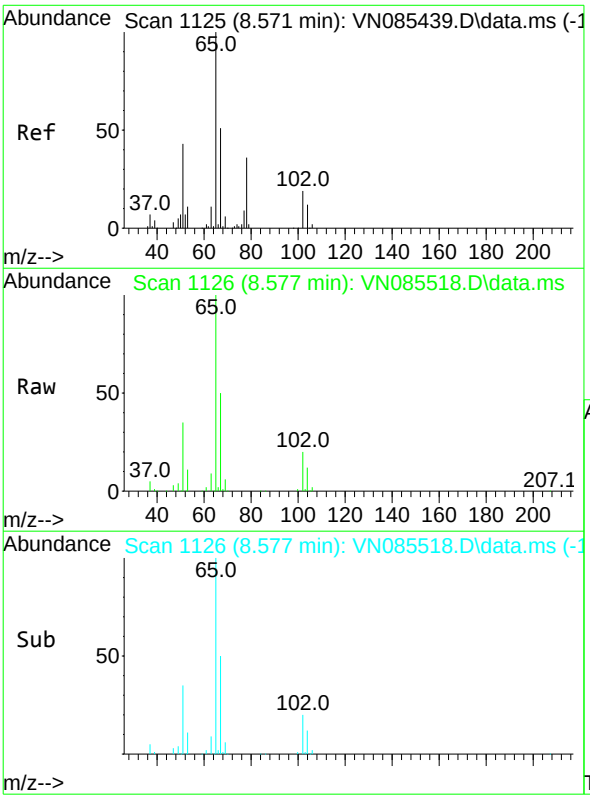

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085518.D
Acq: 27 Jan 2025 15:48

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBL01

Tgt Ion:168 Resp: 197682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.7 | 53.6 | 80.4 |

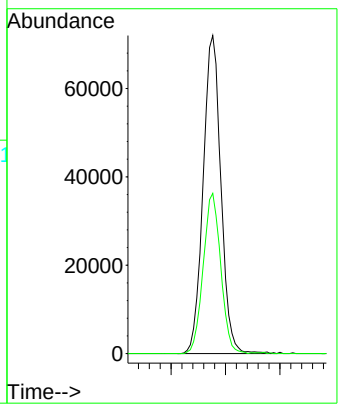


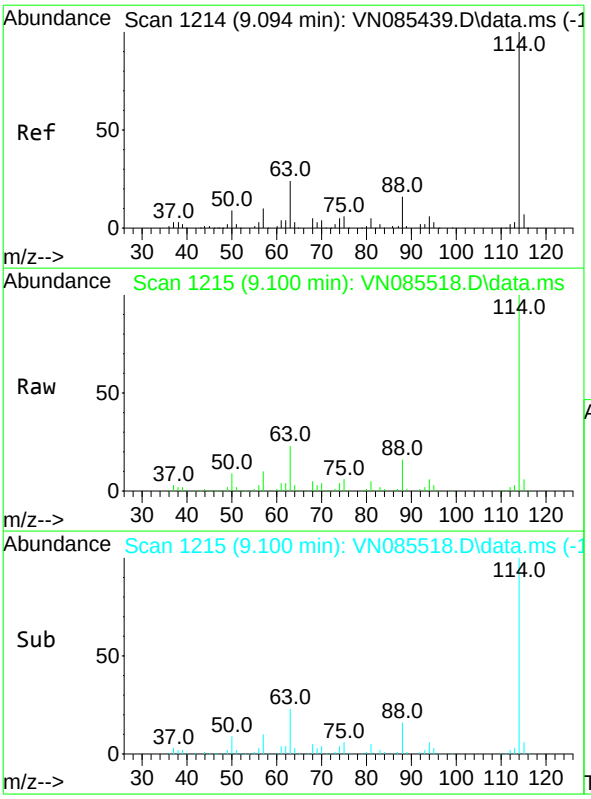




#33
1,2-Dichloroethane-d4
Concen: 51.164 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085518.D
Acq: 27 Jan 2025 15:48

Tgt Ion: 65 Resp: 163263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.6 | 0.0 | 101.6 |



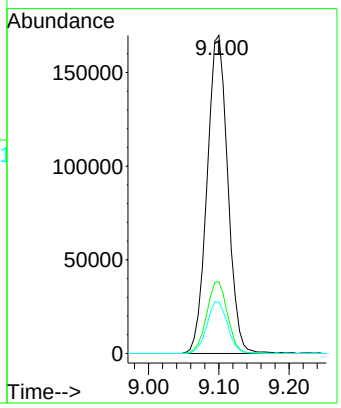


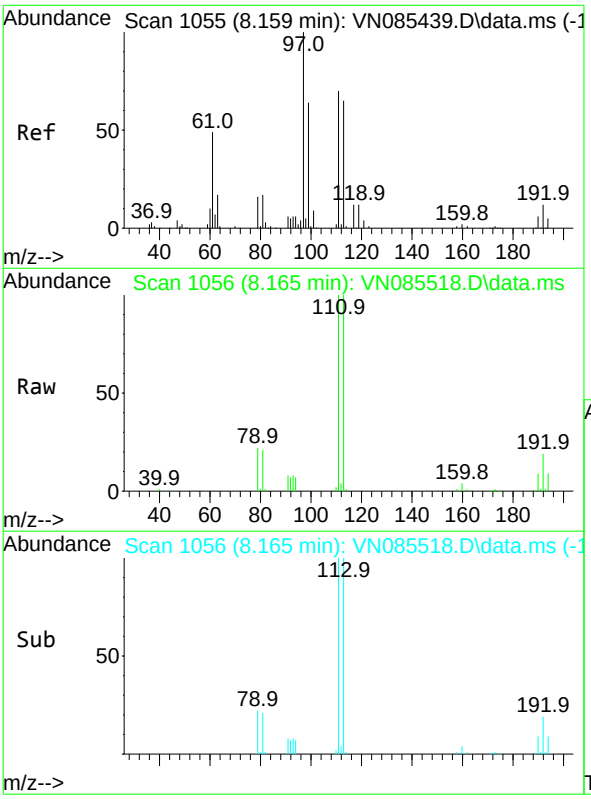

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.006 min
Lab File: VN085518.D
Acq: 27 Jan 2025 15:48

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBL01

Tgt Ion:114 Resp: 347425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.5 | 0.0 | 47.6 |
| 88 | 16.1 | 0.0 | 32.6 |

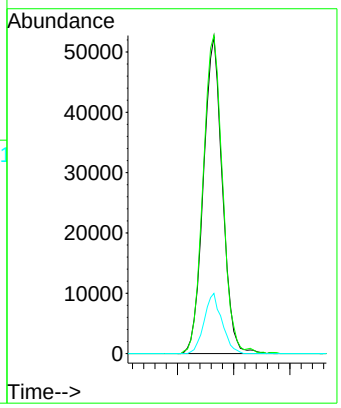


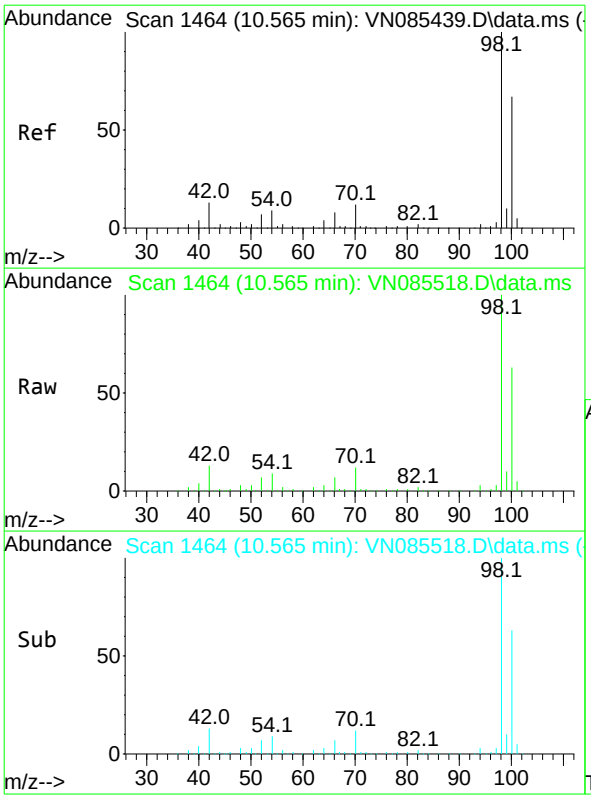




#35
Dibromofluoromethane
Concen: 50.999 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085518.D
Acq: 27 Jan 2025 15:48

Tgt Ion:113 Resp: 122921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 82.7 | 124.1 |
| 192 | 17.8 | 14.3 | 21.5 |



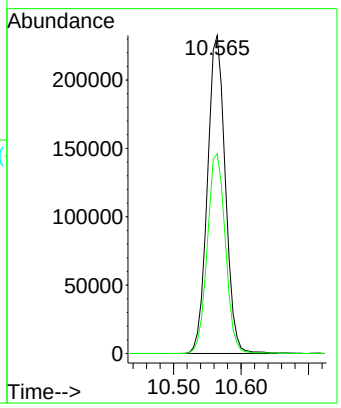


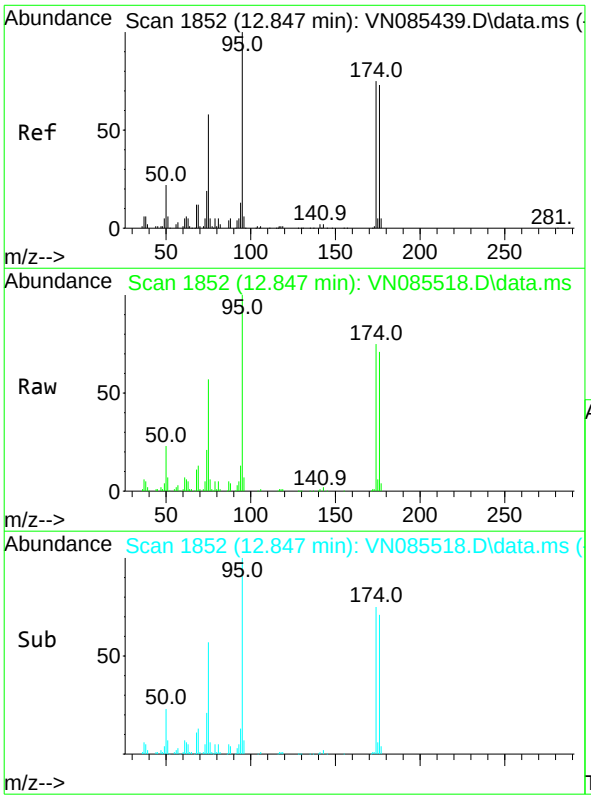

#50
Toluene-d8
Concen: 49.972 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN085518.D
Acq: 27 Jan 2025 15:48

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBL01

Tgt Ion: 98 Resp: 427942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.6 | 52.2 | 78.4 |

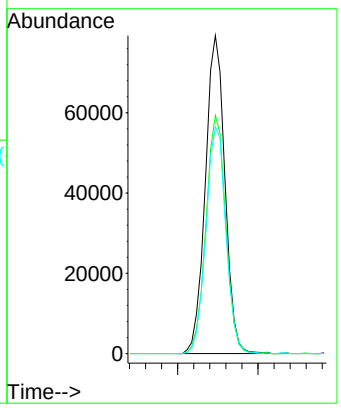


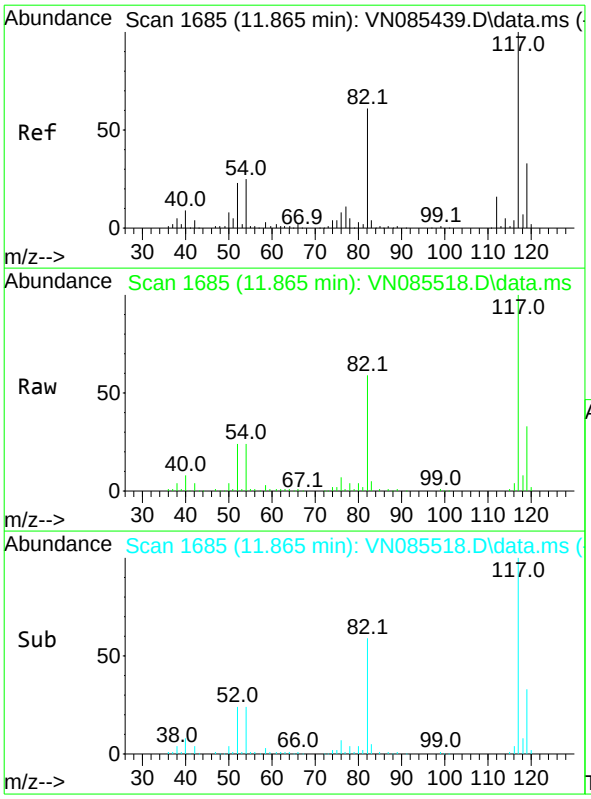




#62
4-Bromofluorobenzene
Concen: 45.743 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085518.D
Acq: 27 Jan 2025 15:48

Tgt Ion: 95 Resp: 134001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.9 | 0.0 | 145.0 |
| 176 | 72.5 | 0.0 | 142.4 |



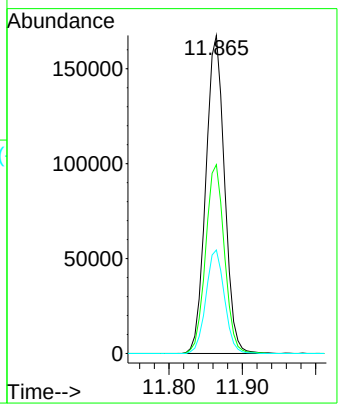


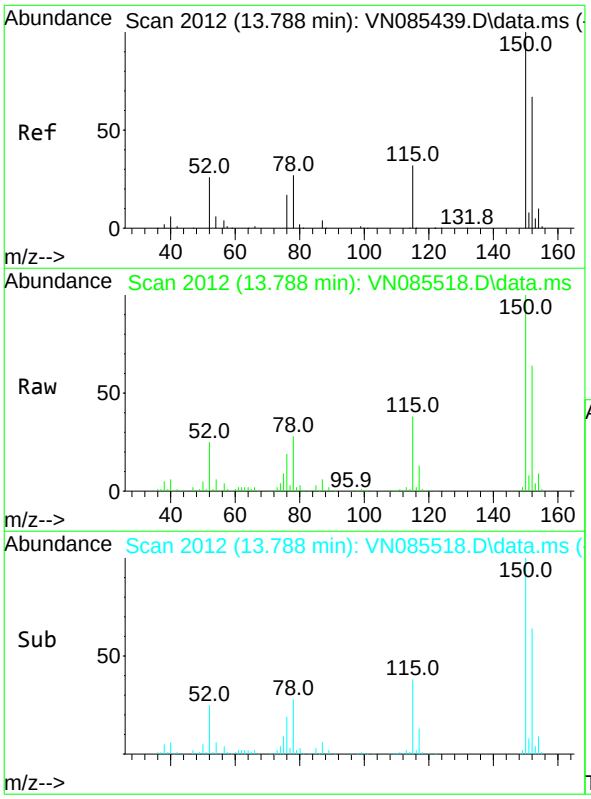

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085518.D
Acq: 27 Jan 2025 15:48

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBL01

Tgt Ion:117 Resp: 297114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.4 | 48.6 | 72.8 |
| 119 | 32.5 | 26.6 | 39.8 |

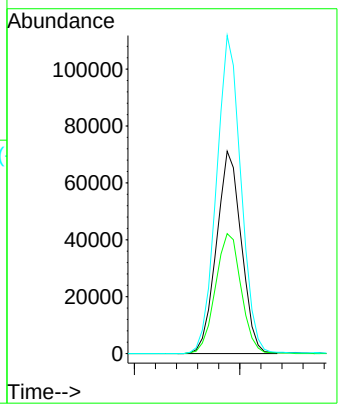



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085518.D
Acq: 27 Jan 2025 15:48

Tgt Ion:152 Resp: 116627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.4 | 31.1 | 93.3 |
| 150 | 155.5 | 0.0 | 343.6 |



Sample Results: **VN085518.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085518.D
Acq On : 27 Jan 2025 15:48
Operator : JC\MD
Sample : VN0127WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBL01

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_N\methods\82N011425W.M
Title : SW846 8260

Signal : TIC: VN085518.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 8.165 | 1046 | 1056 | 1060 | rBV | 173456 | 406010 | 35.22% | 6.883% |
| 2 | 8.218 | 1060 | 1065 | 1076 | rVB | 278848 | 634449 | 55.03% | 10.756% |
| 3 | 8.577 | 1116 | 1126 | 1138 | rBV | 191387 | 431244 | 37.41% | 7.311% |
| 4 | 9.100 | 1206 | 1215 | 1228 | rBV | 420141 | 864005 | 74.95% | 14.647% |
| 5 | 10.565 | 1455 | 1464 | 1473 | rBV | 627561 | 1152821 | 100.00% | 19.544% |
| 6 | 11.865 | 1677 | 1685 | 1698 | rBV | 548296 | 975918 | 84.65% | 16.545% |
| 7 | 12.847 | 1845 | 1852 | 1861 | rBV | 407100 | 686365 | 59.54% | 11.636% |
| 8 | 13.788 | 2005 | 2012 | 2020 | rBV | 454509 | 747864 | 64.87% | 12.679% |

Sum of corrected areas: 5898676

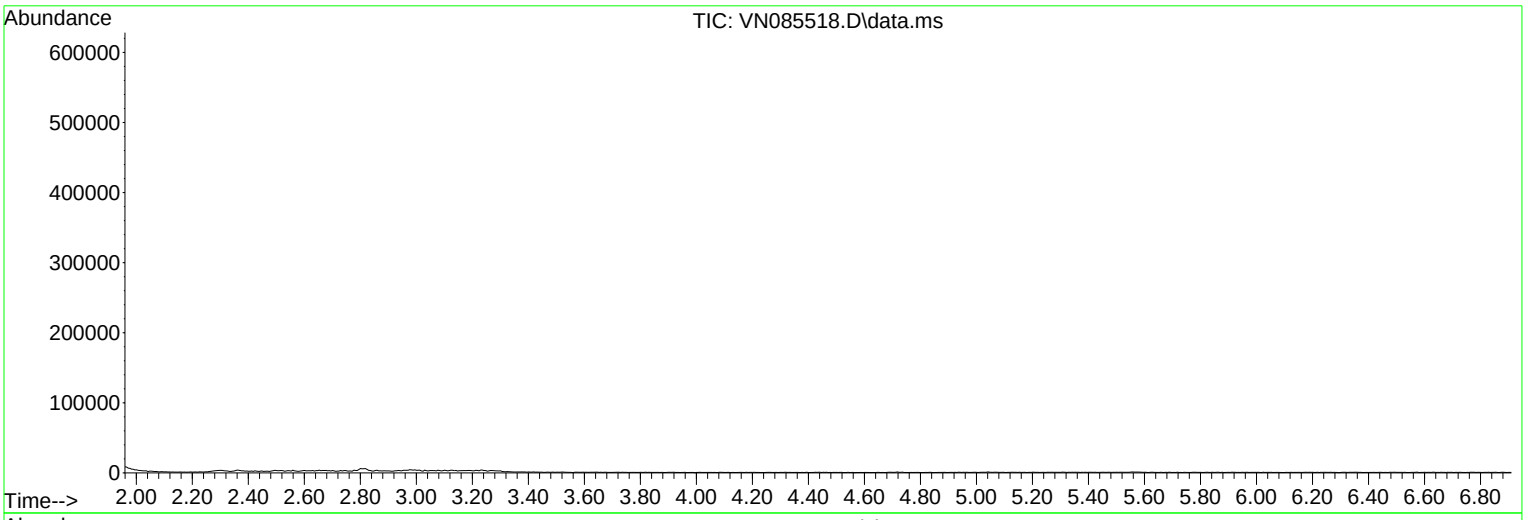
Sample Results: **VN085518.D**

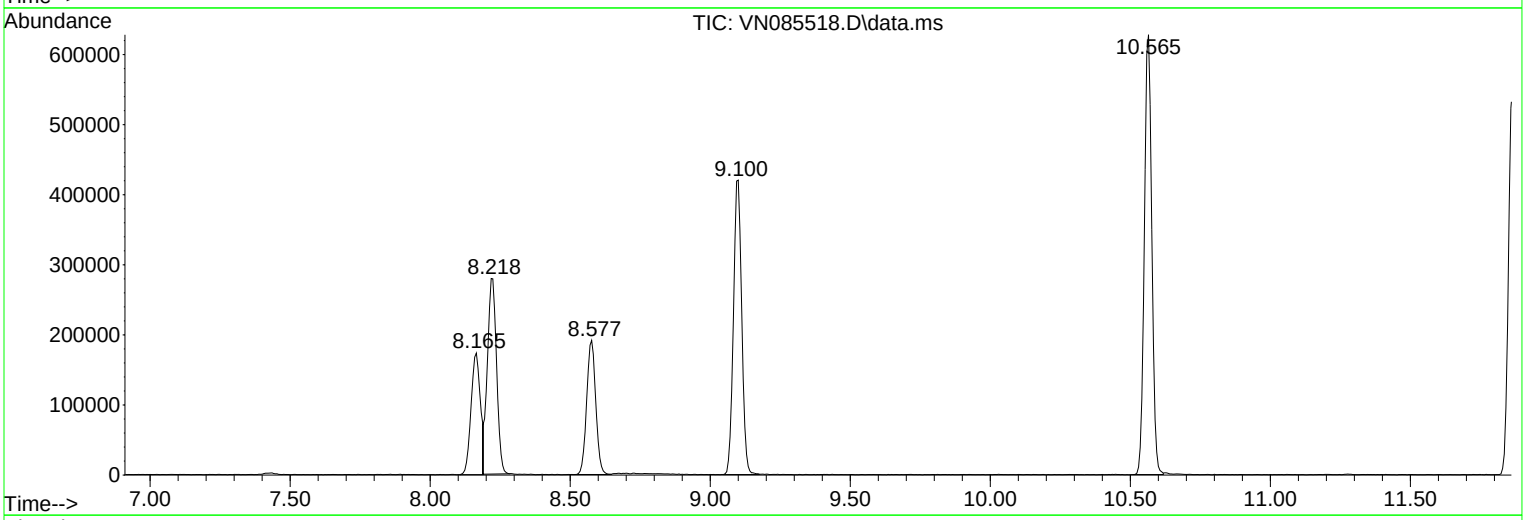
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085518.D
Acq On : 27 Jan 2025 15:48
Operator : JC\MD
Sample : VN0127WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

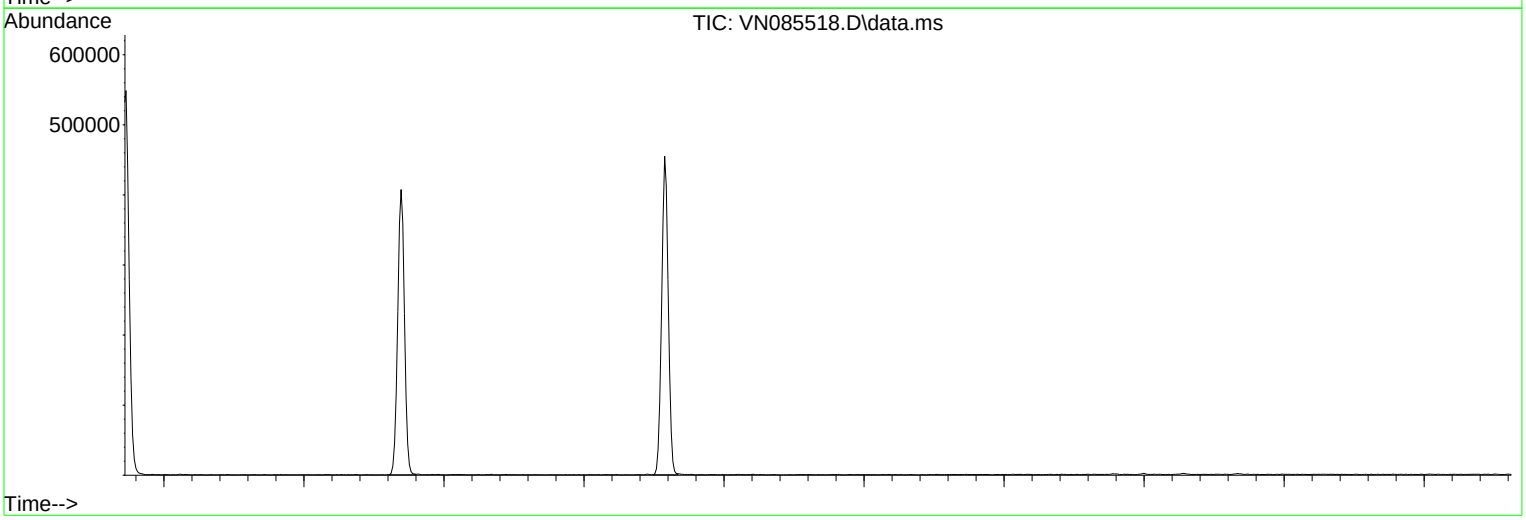
**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VN085518.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085518.D
Acq On : 27 Jan 2025 15:48
Operator : JC\MD
Sample : VN0127WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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

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

Sample Results: **VN085518.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085518.D
Acq On : 27 Jan 2025 15:48
Operator : JC\MD
Sample : VN0127WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.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: **VN085528.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0128WBL01 | SDG No.: | Q1194 |
| Lab Sample ID: | VN0128WBL01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085528.D | 1 | | 01/28/25 10:51 | VN012825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.35 | U | 0.35 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.56 | U | 0.56 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.34 | U | 0.34 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.32 | U | 0.32 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.60 | U | 0.60 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.32 | U | 0.32 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.60 | U | 1.60 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 1.30 | U | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.19 | U | 0.19 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.19 | U | 0.19 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.19 | U | 0.19 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.24 | U | 0.24 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.75 | U | 0.75 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.18 | U | 0.18 | 1.00 | ug/L |

Raw Data: **VN085528.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0128WBL01 | SDG No.: | Q1194 |
| Lab Sample ID: | VN0128WBL01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085528.D | 1 | | 01/28/25 10:51 | VN012825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.21 | U | 0.21 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.18 | U | 0.18 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 1.10 | U | 1.10 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.31 | U | 0.31 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.14 | U | 0.14 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.21 | U | 0.21 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.27 | U | 0.27 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.24 | U | 0.24 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.27 | U | 0.27 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.46 | U | 0.46 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.42 | U | 0.42 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.51 | U | 0.51 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.7 | | 70 (74) - 130 (125) | 107% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.2 | | 70 (75) - 130 (124) | 104% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.1 | | 70 (86) - 130 (113) | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.2 | | 70 (77) - 130 (121) | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 184000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 333000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 291000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 116000 | 13.788 | | | |

Raw Data: **VN085528.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0128WBL01 | SDG No.: | Q1194 |
| Lab Sample ID: | VN0128WBL01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085528.D | 1 | | 01/28/25 10:51 | VN012825 |

| 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

Quantitation Report (QT Reviewed)

Sample Results: **VN085528.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085528.D
Acq On : 28 Jan 2025 10:51
Operator : JC\MD
Sample : VN0128WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBL01

Quant Time: Jan 29 00:35:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 183717 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 332601 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 291066 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 116250 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 159230 | 53.693 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 107.380% | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 120495 | 52.220 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 104.440% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 410338 | 50.052 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 100.100% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 124045 | 44.232 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 88.460% | | | |

Target Compounds Qvalue

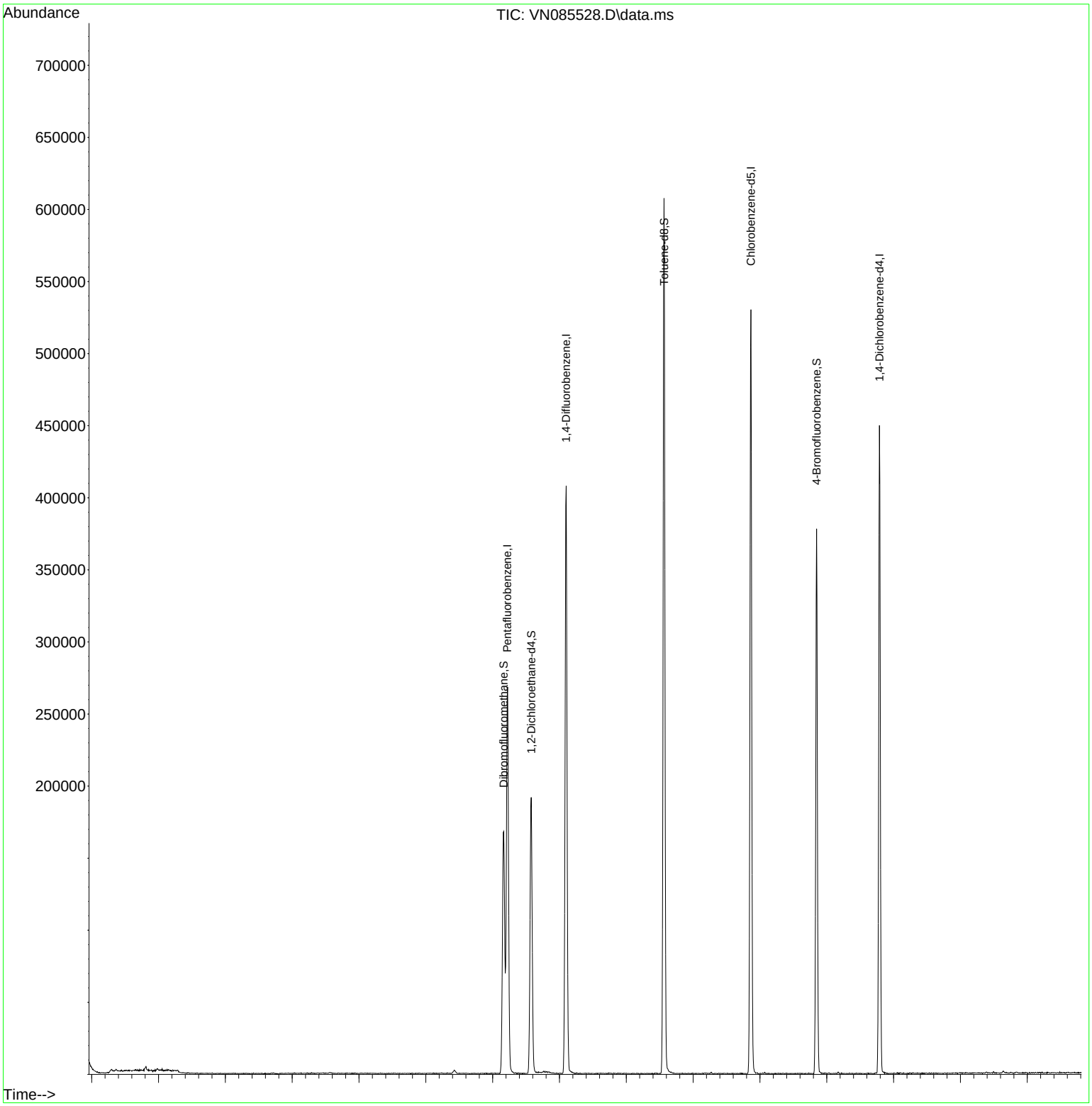
(#) = qualifier out of range (m) = manual integration (+) = signals summed

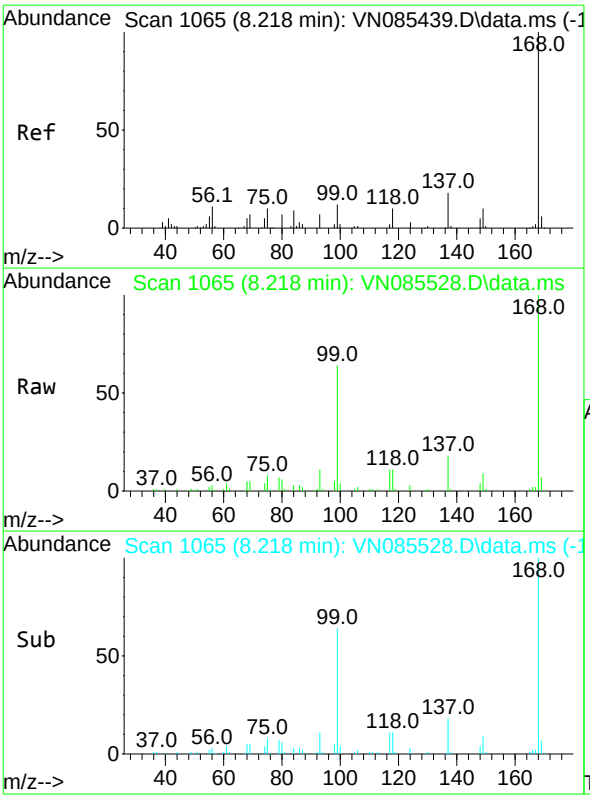
Sample Results: **VN085528.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085528.D
Acq On : 28 Jan 2025 10:51
Operator : JC\MD
Sample : VN0128WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBL01

Quant Time: Jan 29 00:35:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



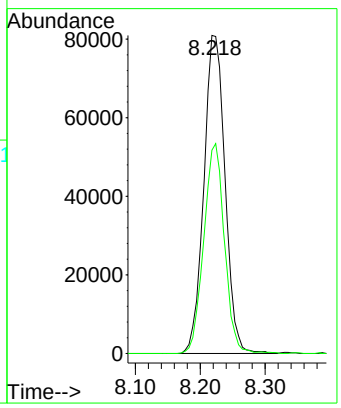


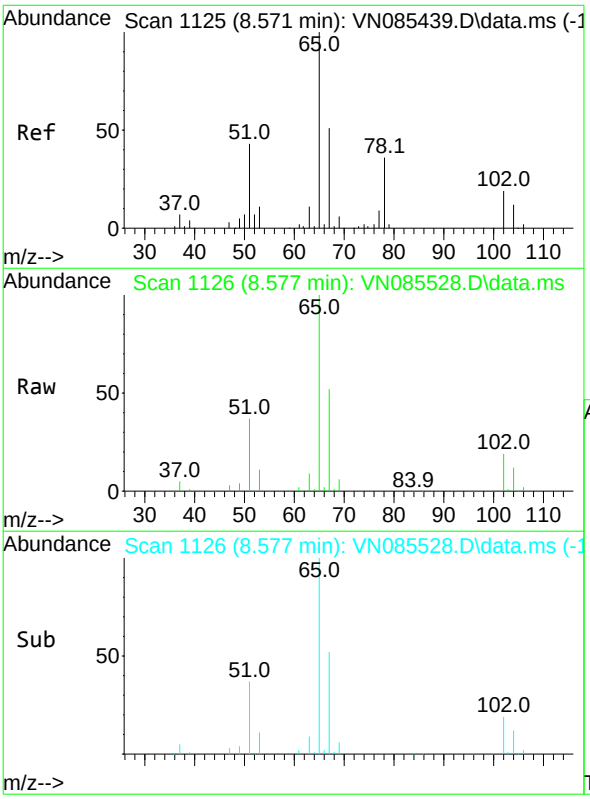

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085528.D
Acq: 28 Jan 2025 10:51

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBL01

Tgt Ion:168 Resp: 183717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.9 | 53.6 | 80.4 |

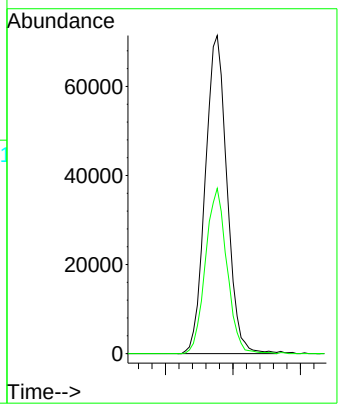


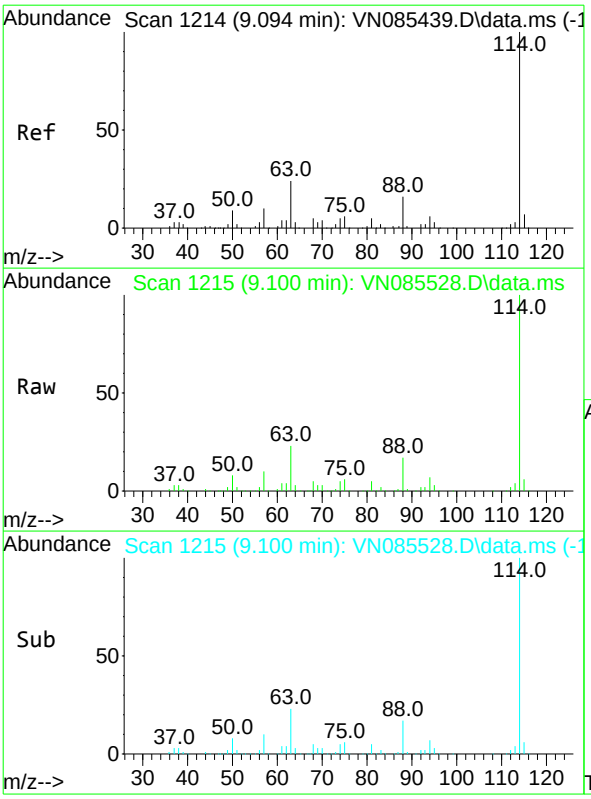




#33
1,2-Dichloroethane-d4
Concen: 53.693 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085528.D
Acq: 28 Jan 2025 10:51

Tgt Ion: 65 Resp: 159230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.5 | 0.0 | 101.6 |



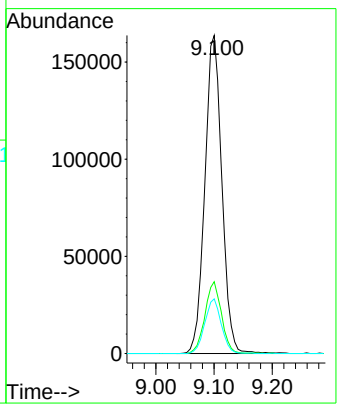


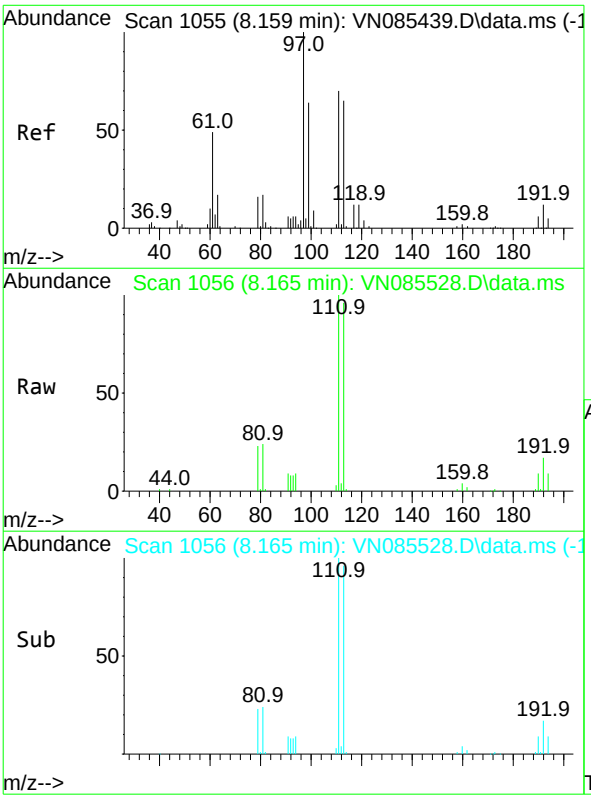

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.006 min
Lab File: VN085528.D
Acq: 28 Jan 2025 10:51

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBL01

Tgt Ion:114 Resp: 332601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.6 | 0.0 | 47.6 |
| 88 | 17.2 | 0.0 | 32.6 |

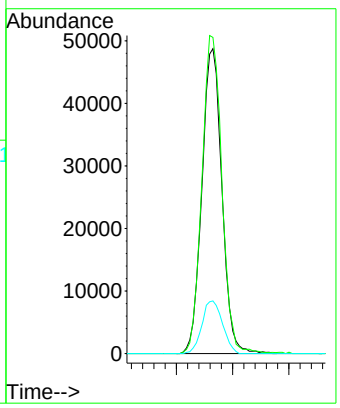


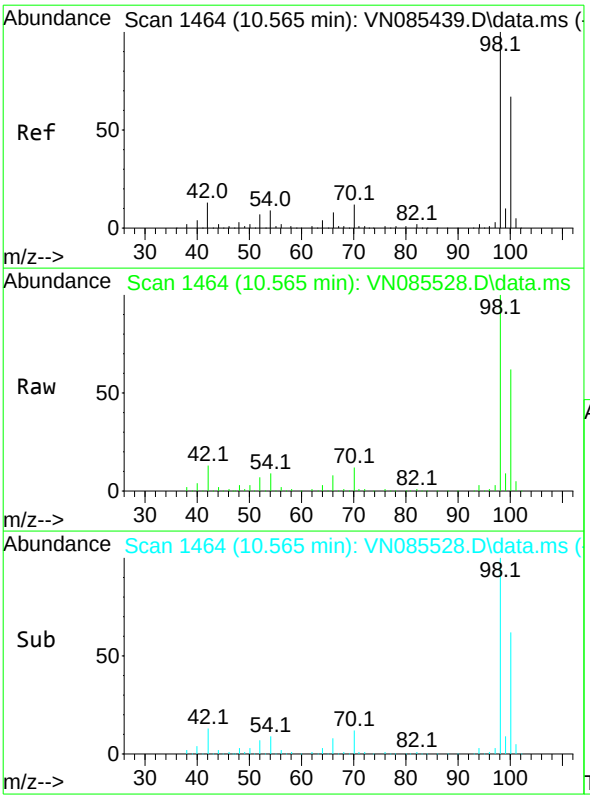




#35
Dibromofluoromethane
Concen: 52.220 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085528.D
Acq: 28 Jan 2025 10:51

Tgt Ion:113 Resp: 120495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.9 | 82.7 | 124.1 |
| 192 | 17.8 | 14.3 | 21.5 |



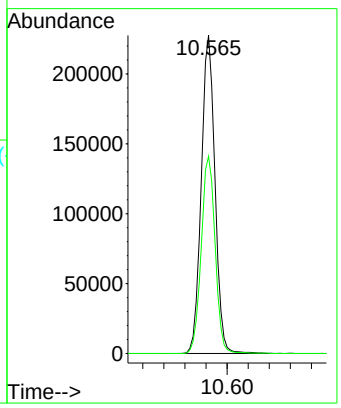


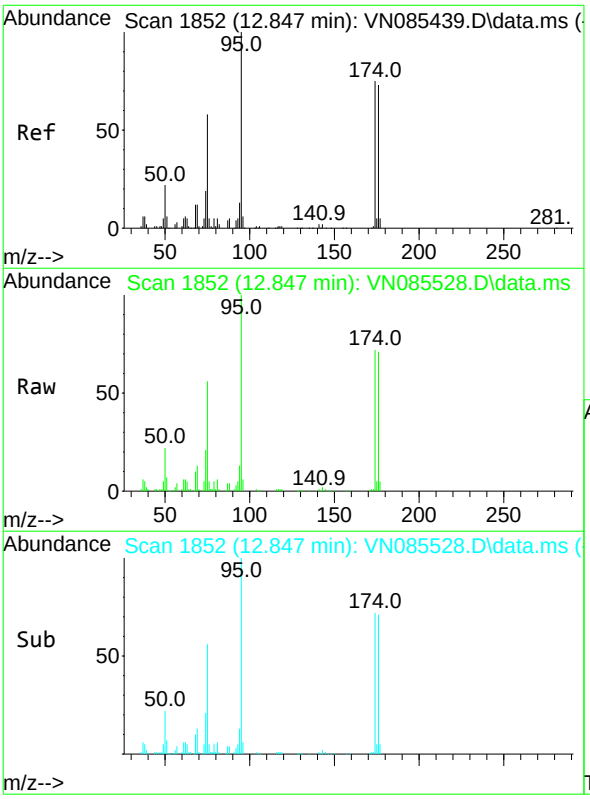

#50
Toluene-d8
Concen: 50.052 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085528.D
Acq: 28 Jan 2025 10:51

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBL01

Tgt Ion: 98 Resp: 410338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.0 | 52.2 | 78.4 |

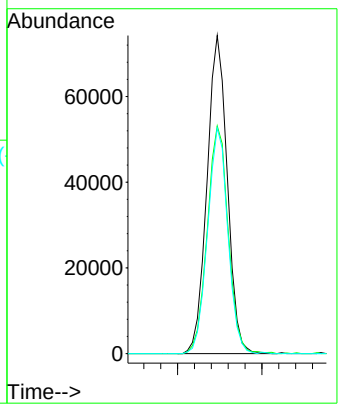


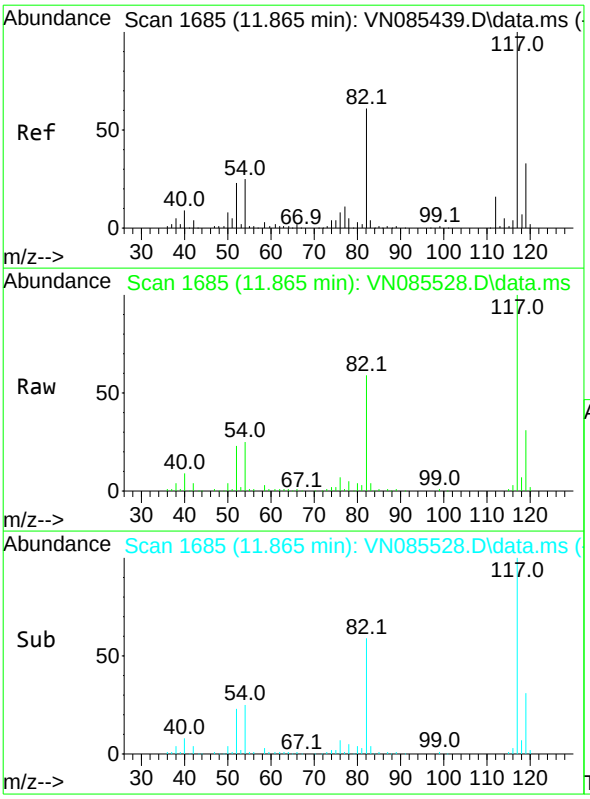




#62
4-Bromofluorobenzene
Concen: 44.232 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085528.D
Acq: 28 Jan 2025 10:51

Tgt Ion: 95 Resp: 124045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 74.0 | 0.0 | 145.0 |
| 176 | 70.5 | 0.0 | 142.4 |



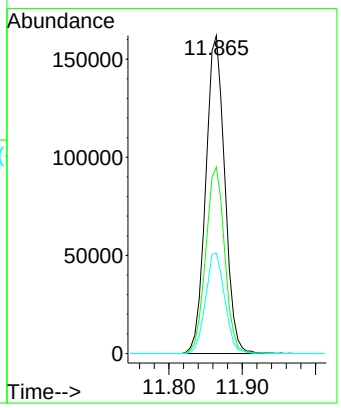


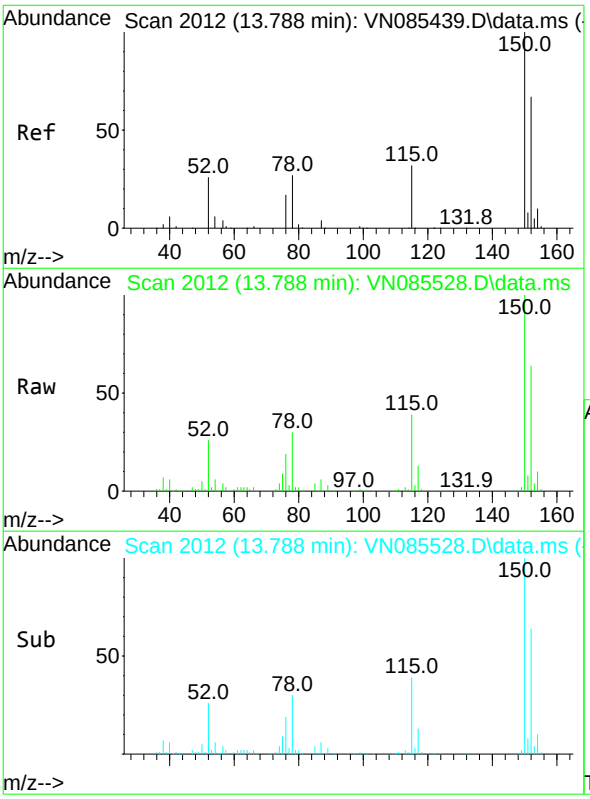

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085528.D
Acq: 28 Jan 2025 10:51

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBL01

Tgt Ion:117 Resp: 291066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.6 | 48.6 | 72.8 |
| 119 | 31.5 | 26.6 | 39.8 |

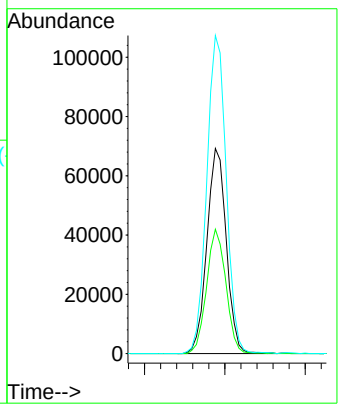



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085528.D
Acq: 28 Jan 2025 10:51

Tgt Ion:152 Resp: 116250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.3 | 31.1 | 93.3 |
| 150 | 155.3 | 0.0 | 343.6 |



Sample Results: **VN085528.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085528.D
Acq On : 28 Jan 2025 10:51
Operator : JC\MD
Sample : VN0128WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBL01

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_N\methods\82N011425W.M
Title : SW846 8260

Signal : TIC: VN085528.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 8.165 | 1046 | 1056 | 1060 | rBV | 167943 | 401423 | 36.19% | 7.042% |
| 2 | 8.224 | 1060 | 1066 | 1082 | rVB | 267962 | 606129 | 54.65% | 10.633% |
| 3 | 8.577 | 1116 | 1126 | 1138 | rBV | 191499 | 427577 | 38.55% | 7.501% |
| 4 | 9.100 | 1205 | 1215 | 1229 | rBV | 407646 | 827937 | 74.65% | 14.524% |
| 5 | 10.565 | 1455 | 1464 | 1480 | rBV | 607166 | 1109139 | 100.00% | 19.457% |
| 6 | 11.865 | 1676 | 1685 | 1697 | rBV | 529971 | 948825 | 85.55% | 16.645% |
| 7 | 12.847 | 1845 | 1852 | 1860 | rBV | 378051 | 632238 | 57.00% | 11.091% |
| 8 | 13.788 | 2005 | 2012 | 2021 | rBV | 449400 | 747250 | 67.37% | 13.108% |

Sum of corrected areas: 5700518

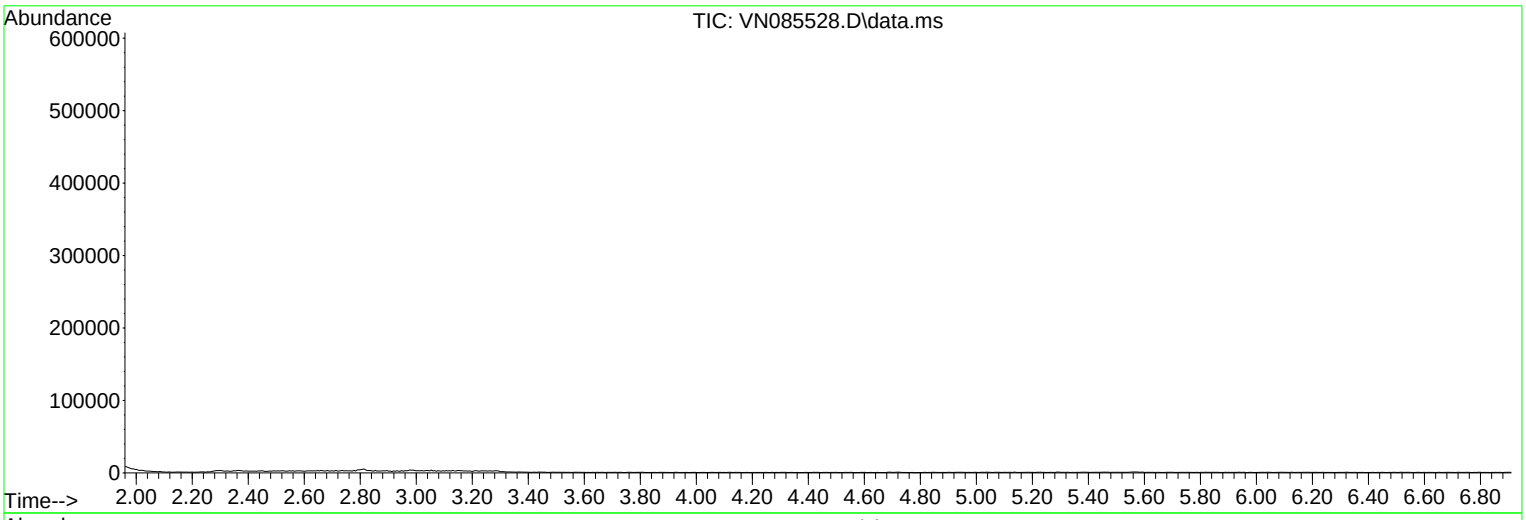
Sample Results: **VN085528.D**

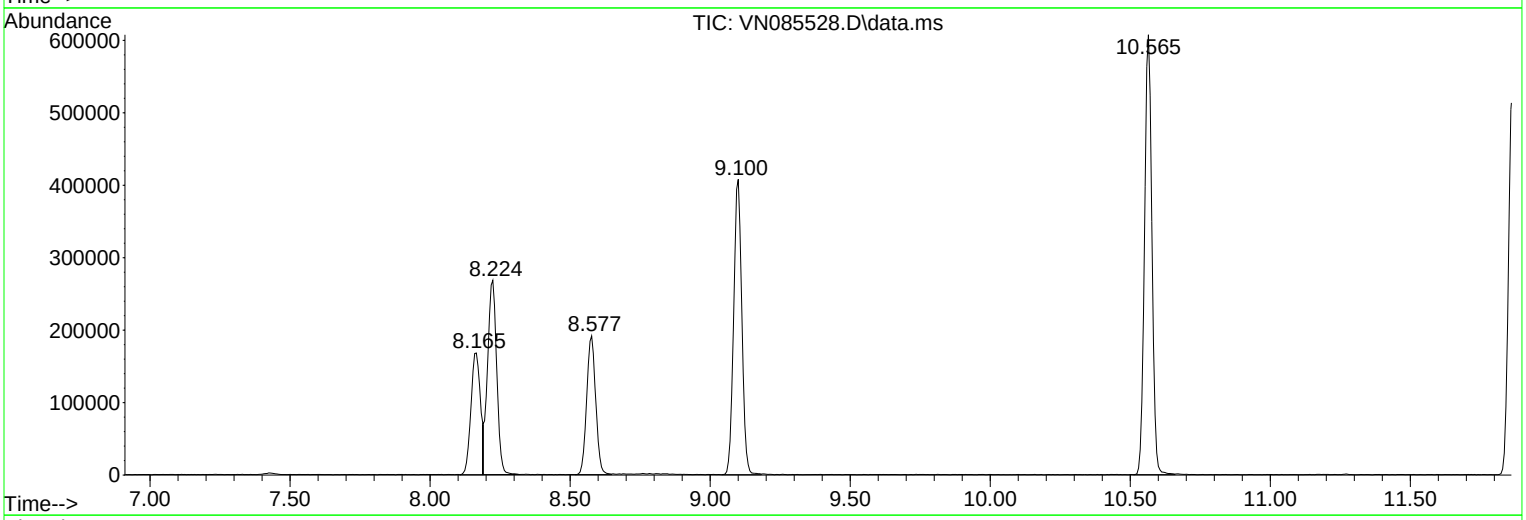
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085528.D
Acq On : 28 Jan 2025 10:51
Operator : JC\MD
Sample : VN0128WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

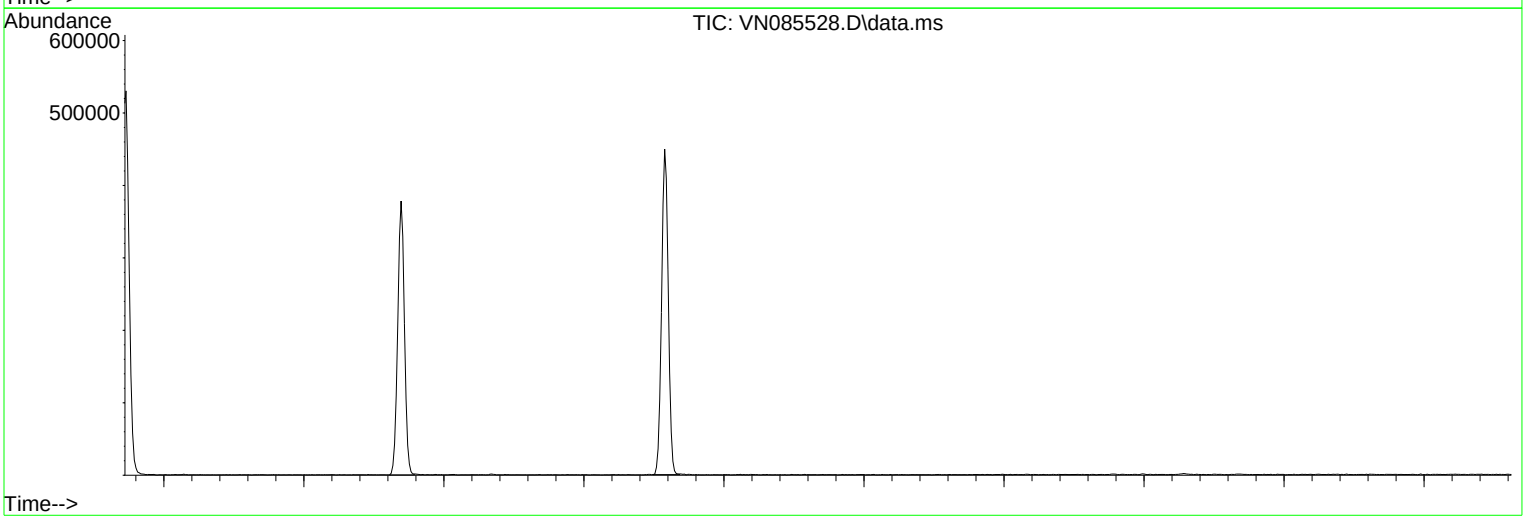
**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VN085528.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085528.D
Acq On : 28 Jan 2025 10:51
Operator : JC\MD
Sample : VN0128WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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

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

Sample Results: **VN085528.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085528.D
Acq On : 28 Jan 2025 10:51
Operator : JC\MD
Sample : VN0128WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.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: **VY020937.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0127SBL01 | SDG No.: | Q1194 |
| Lab Sample ID: | VY0127SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020937.D | 1 | | 01/27/25 09:51 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.70 | U | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 1.20 | U | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.77 | U | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 1.00 | U | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 1.00 | U | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.91 | U | 0.91 | 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 | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 6.20 | U | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.30 | U | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.80 | U | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 3.40 | U | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.84 | U | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.63 | U | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.69 | U | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 5.70 | U | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.87 | U | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.61 | U | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.40 | U | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.87 | U | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 0.72 | U | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.61 | U | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.75 | U | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.66 | U | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.56 | U | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 4.40 | U | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 0.67 | U | 0.67 | 5.00 | ug/Kg |

Raw Data: **VY020937.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0127SBL01 | SDG No.: | Q1194 |
| Lab Sample ID: | VY0127SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020937.D | 1 | | 01/27/25 09:51 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.60 | U | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.57 | U | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.84 | U | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.80 | U | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.65 | U | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.89 | U | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.74 | U | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.62 | U | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.40 | U | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 0.70 | U | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 0.60 | U | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.81 | U | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.74 | U | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.80 | U | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.59 | U | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.60 | U | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 63.1 | | 70 (50) - 130 (163) | 126% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 55.2 | | 70 (54) - 130 (147) | 110% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.7 | | 70 (58) - 130 (134) | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.2 | | 70 (29) - 130 (146) | 94% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 237000 | 7.726 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 407000 | 8.628 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 343000 | 11.426 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 130000 | 13.359 | | | |

Raw Data: **VY020937.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0127SBL01 | SDG No.: | Q1194 |
| Lab Sample ID: | VY0127SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020937.D | 1 | | 01/27/25 09:51 | VY012725 |

| 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: **VY020937.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020937.D
Acq On : 27 Jan 2025 09:51
Operator : SY/MD
Sample : VY0127SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBL01

Quant Time: Jan 28 01:09:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Pentafluorobenzene | 7.726 | 168 | 237241 | 50.000 ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.628 | 114 | 406523 | 50.000 ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 343434 | 50.000 ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.359 | 152 | 130475 | 50.000 ug/l | 0.00 |
| System Monitoring Compounds | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 119396 | 63.121 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 126.240% | | |
| 35) Dibromofluoromethane | 7.652 | 113 | 128709 | 55.150 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 110.300% | | |
| 50) Toluene-d8 | 10.115 | 98 | 467826 | 51.680 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 103.360% | | |
| 62) 4-Bromofluorobenzene | 12.420 | 95 | 142244 | 47.215 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 94.440% | | |

Target Compounds Qvalue

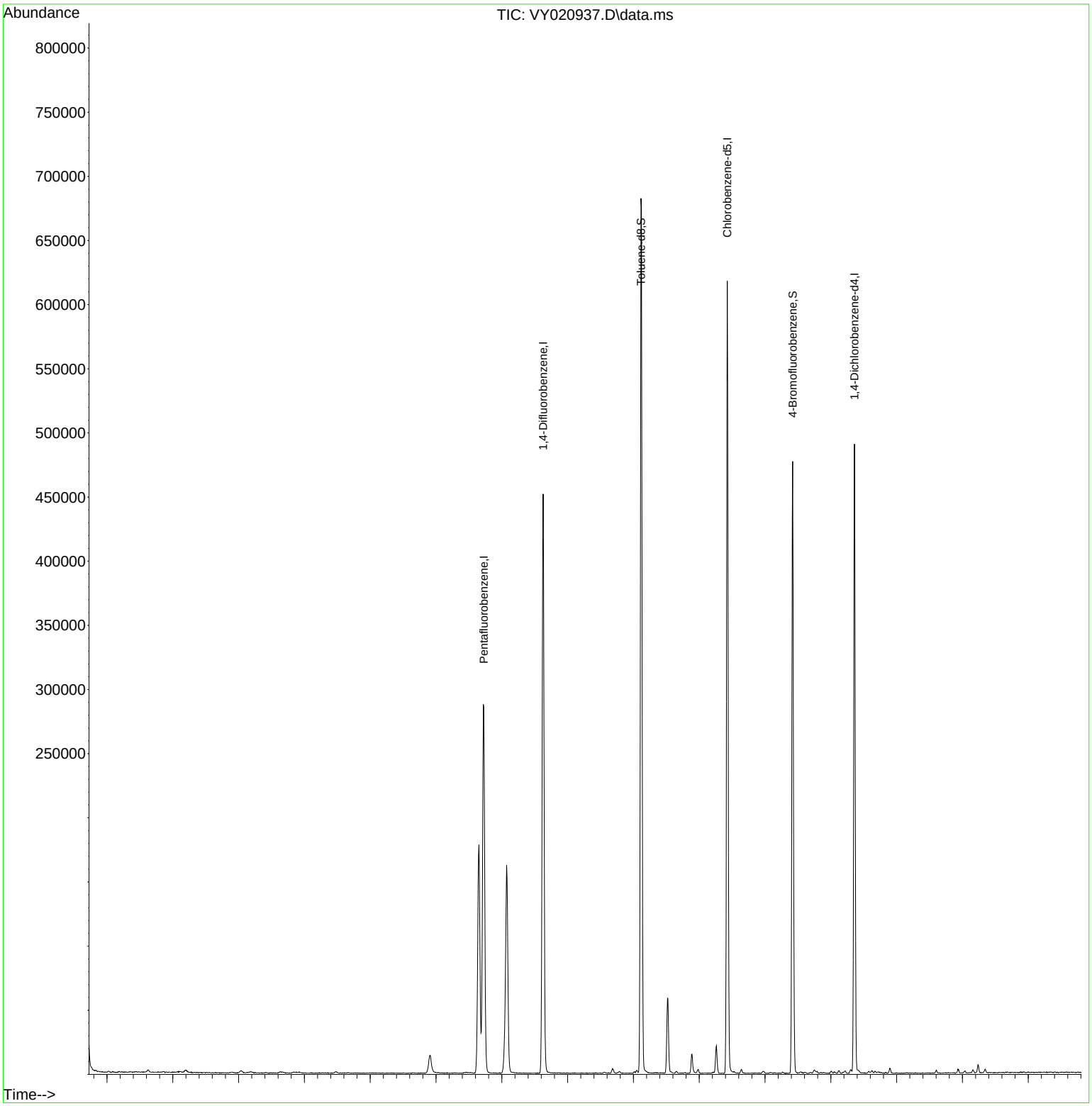
(#) = qualifier out of range (m) = manual integration (+) = signals summed

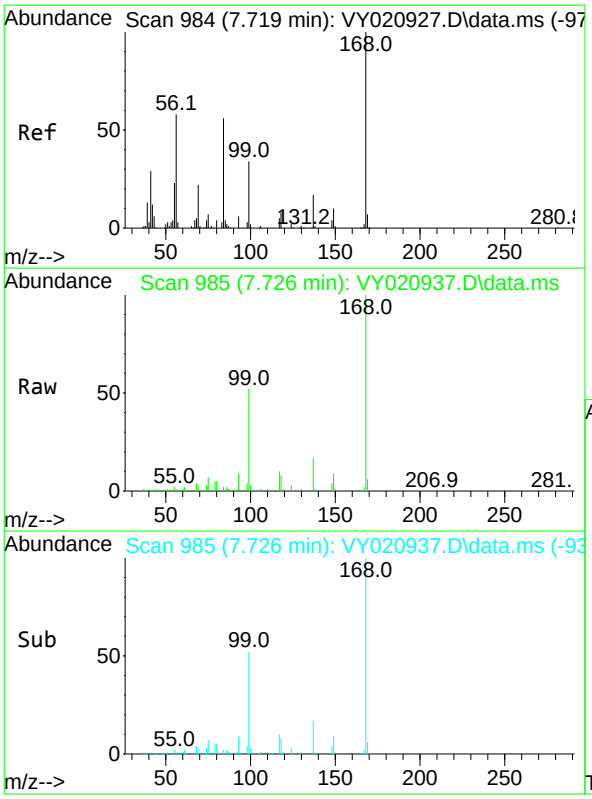
Sample Results: **VY020937.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020937.D
Acq On : 27 Jan 2025 09:51
Operator : SY/MD
Sample : VY0127SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBL01

Quant Time: Jan 28 01:09:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration



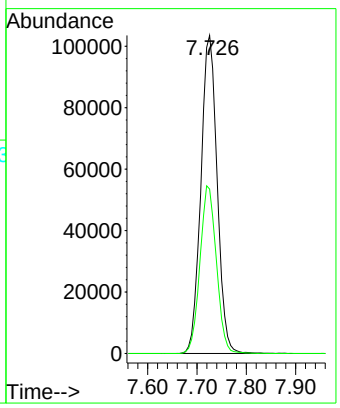


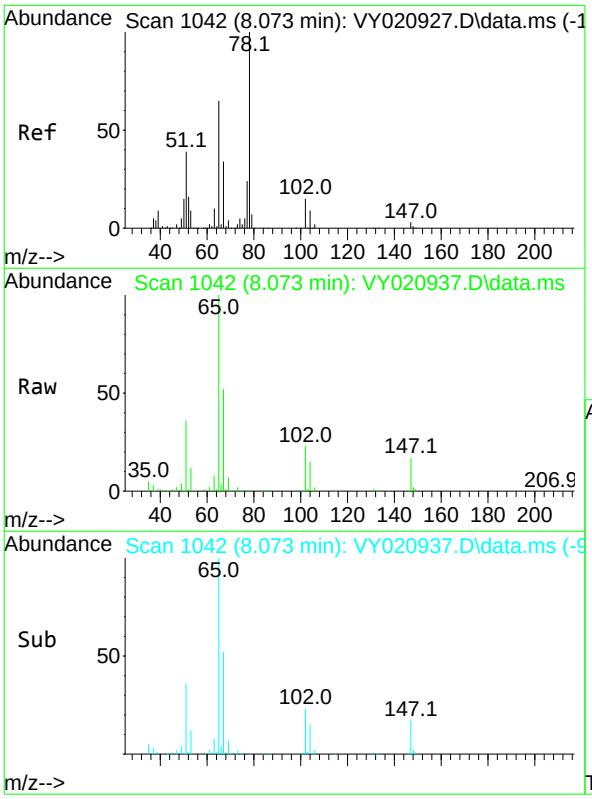

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.726 min Scan# 98
Delta R.T. 0.007 min
Lab File: VY020937.D
Acq: 27 Jan 2025 09:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBL01

Tgt Ion:168 Resp: 237241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.7 | 43.0 | 64.6 |

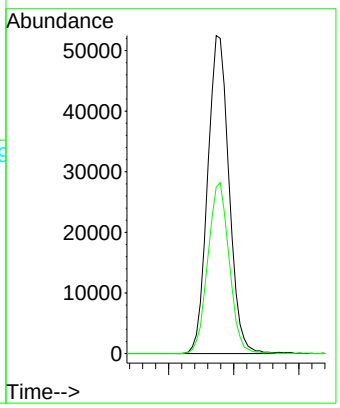


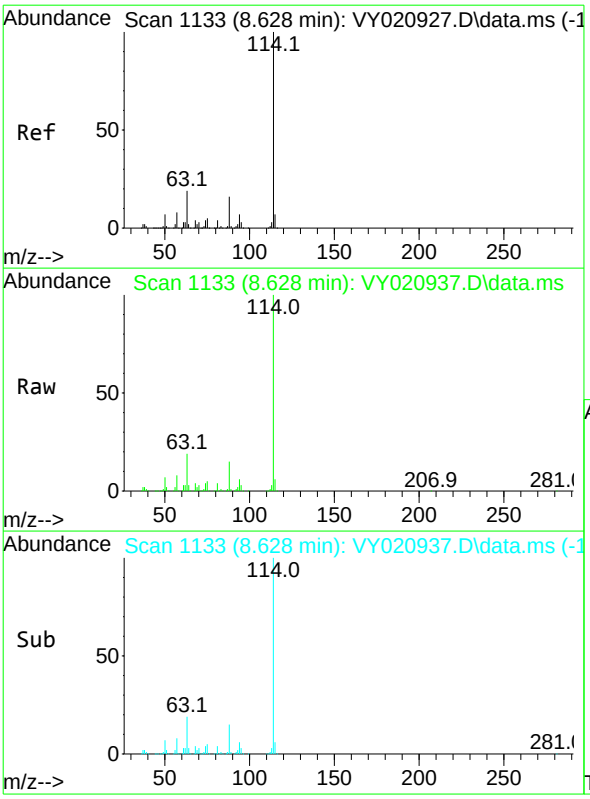




#33
1,2-Dichloroethane-d4
Concen: 63.121 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY020937.D
Acq: 27 Jan 2025 09:51

Tgt Ion: 65 Resp: 119396

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



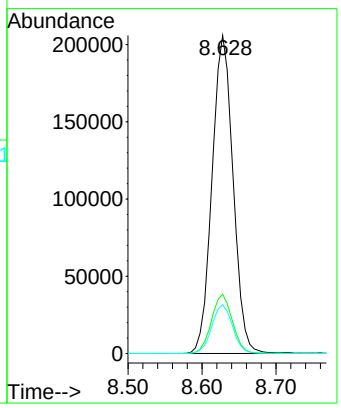


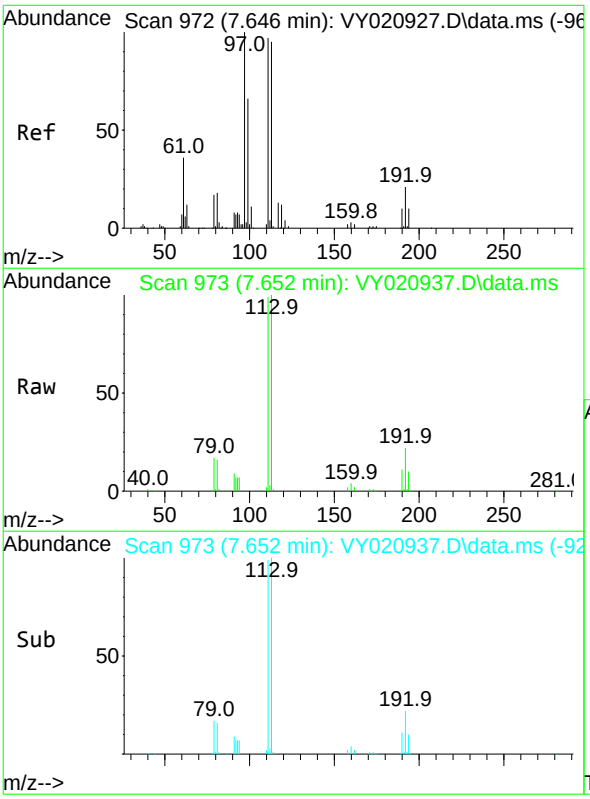

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.628 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020937.D
Acq: 27 Jan 2025 09:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBL01

Tgt Ion:114 Resp: 406523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.6 | 0.0 | 38.4 |
| 88 | 15.3 | 0.0 | 31.6 |

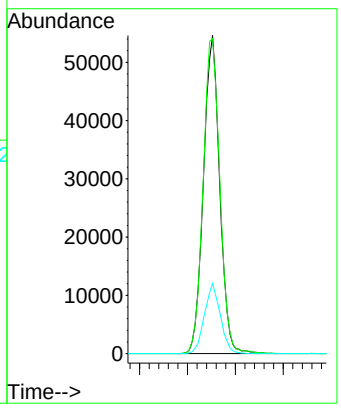


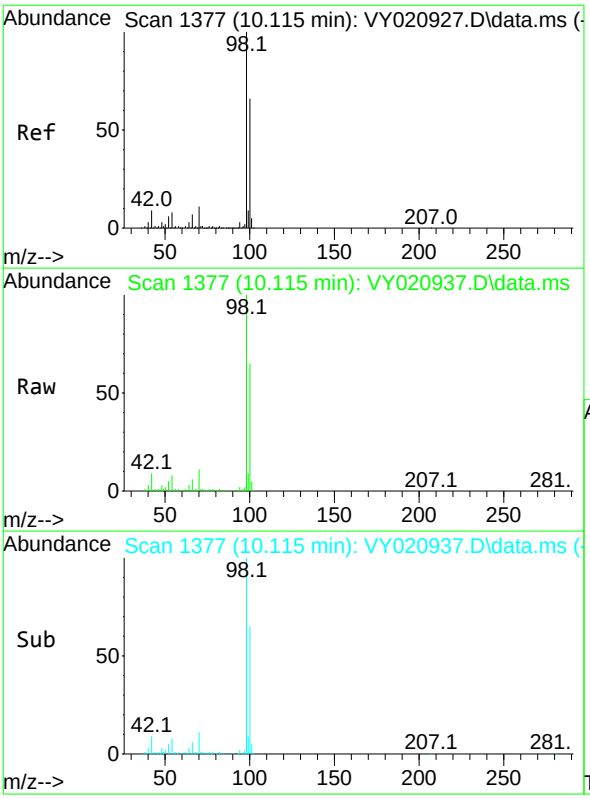




#35
Dibromofluoromethane
Concen: 55.150 ug/l
RT: 7.652 min Scan# 973
Delta R.T. 0.006 min
Lab File: VY020937.D
Acq: 27 Jan 2025 09:51

Tgt Ion:113 Resp: 128709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.1 | 82.3 | 123.5 |
| 192 | 21.6 | 17.4 | 26.2 |



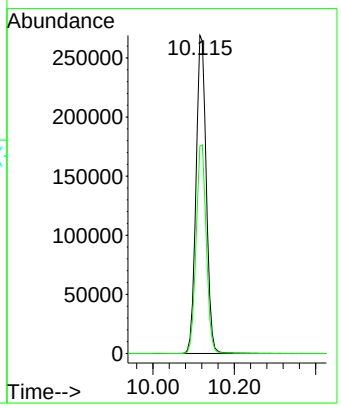


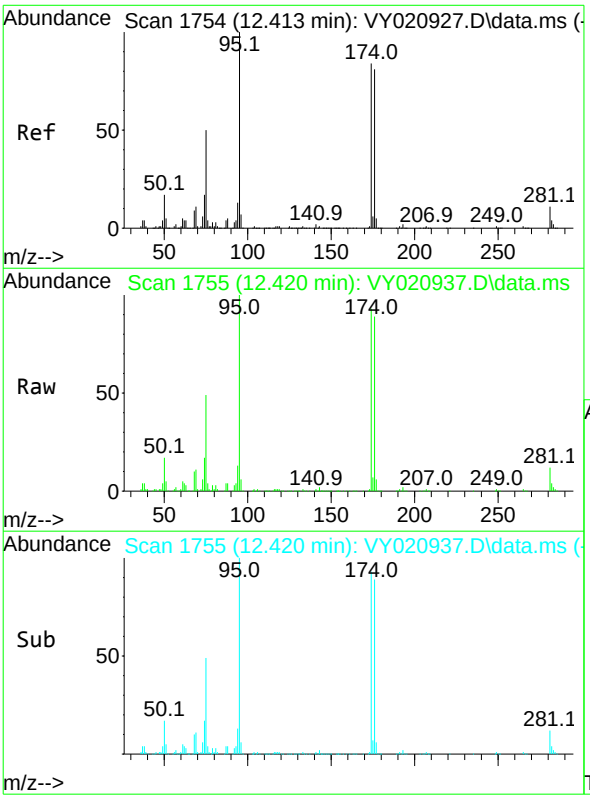

#50
Toluene-d8
Concen: 51.680 ug/l
RT: 10.115 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020937.D
Acq: 27 Jan 2025 09:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBL01

Tgt Ion: 98 Resp: 467826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 52.3 | 78.5 |

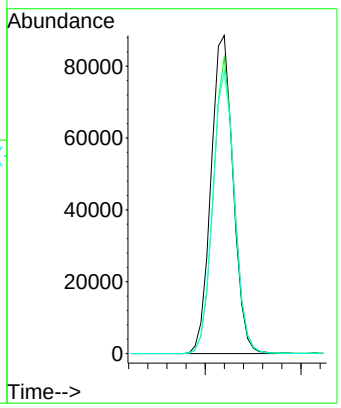


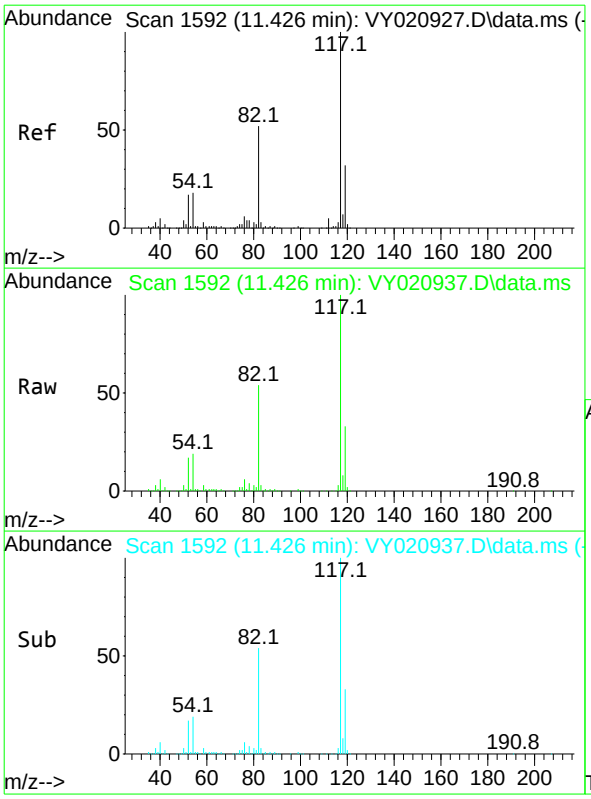




#62
4-Bromofluorobenzene
Concen: 47.215 ug/l
RT: 12.420 min Scan# 1755
Delta R.T. 0.006 min
Lab File: VY020937.D
Acq: 27 Jan 2025 09:51

Tgt Ion: 95 Resp: 142244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 88.7 | 0.0 | 177.4 |
| 176 | 86.8 | 0.0 | 172.2 |



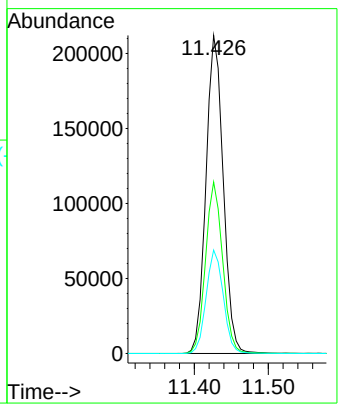


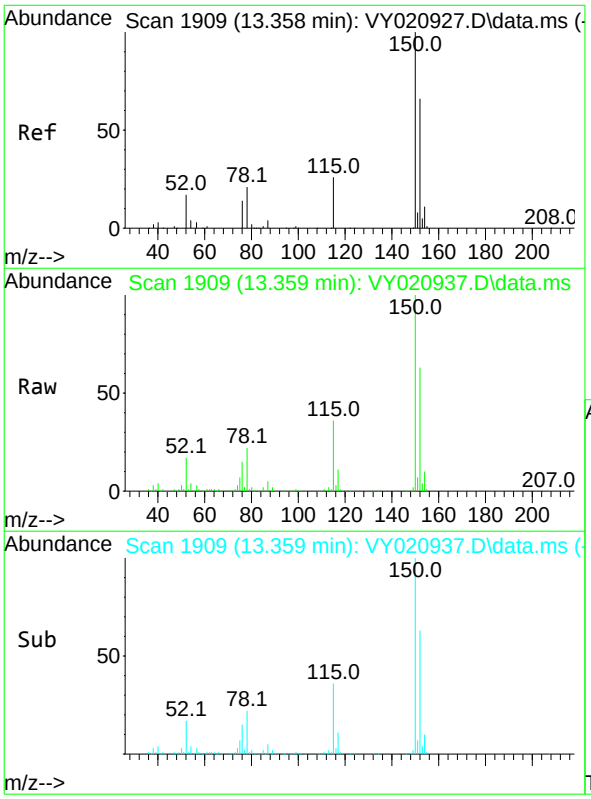

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020937.D
Acq: 27 Jan 2025 09:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBL01

Tgt Ion:117 Resp: 343434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.9 | 41.8 | 62.8 |
| 119 | 32.5 | 26.0 | 39.0 |

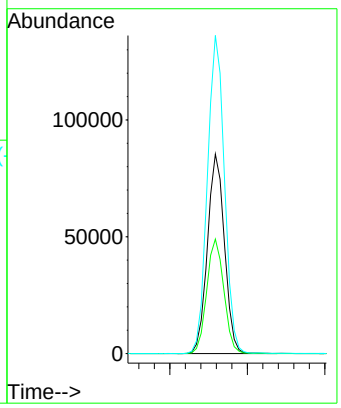



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY020937.D
Acq: 27 Jan 2025 09:51

Tgt Ion:152 Resp: 130475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.5 | 29.0 | 87.0 |
| 150 | 159.8 | 0.0 | 347.6 |



Sample Results: **VY020937.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020937.D
Acq On : 27 Jan 2025 09:51
Operator : SY/MD
Sample : VY0127SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBL01

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\82Y012425S.M
Title : SW846 8260

Signal : TIC: VY020937.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 6.909 | 840 | 851 | 861 | rBV | 13854 | 42784 | 3.59% | 0.674% |
| 2 | 7.652 | 963 | 973 | 978 | rBV | 177869 | 419718 | 35.21% | 6.613% |
| 3 | 7.719 | 978 | 984 | 997 | rVB | 287036 | 665965 | 55.87% | 10.493% |
| 4 | 8.073 | 1028 | 1042 | 1054 | rBV2 | 162231 | 412178 | 34.58% | 6.494% |
| 5 | 8.628 | 1123 | 1133 | 1145 | rBV | 451567 | 898199 | 75.35% | 14.152% |
| 6 | 10.115 | 1370 | 1377 | 1394 | rVB | 681484 | 1192072 | 100.00% | 18.782% |
| 7 | 10.518 | 1436 | 1443 | 1450 | rBV | 58414 | 110712 | 9.29% | 1.744% |
| 8 | 10.890 | 1498 | 1504 | 1514 | rBV2 | 14810 | 26886 | 2.26% | 0.424% |
| 9 | 11.262 | 1559 | 1565 | 1572 | rVB | 21345 | 36975 | 3.10% | 0.583% |
| 10 | 11.426 | 1585 | 1592 | 1607 | rBV | 617494 | 1005665 | 84.36% | 15.845% |
| 11 | 12.420 | 1747 | 1755 | 1767 | rBV2 | 476982 | 789116 | 66.20% | 12.433% |
| 12 | 13.359 | 1903 | 1909 | 1917 | rBV | 488758 | 746703 | 62.64% | 11.765% |

Sum of corrected areas: 6346973

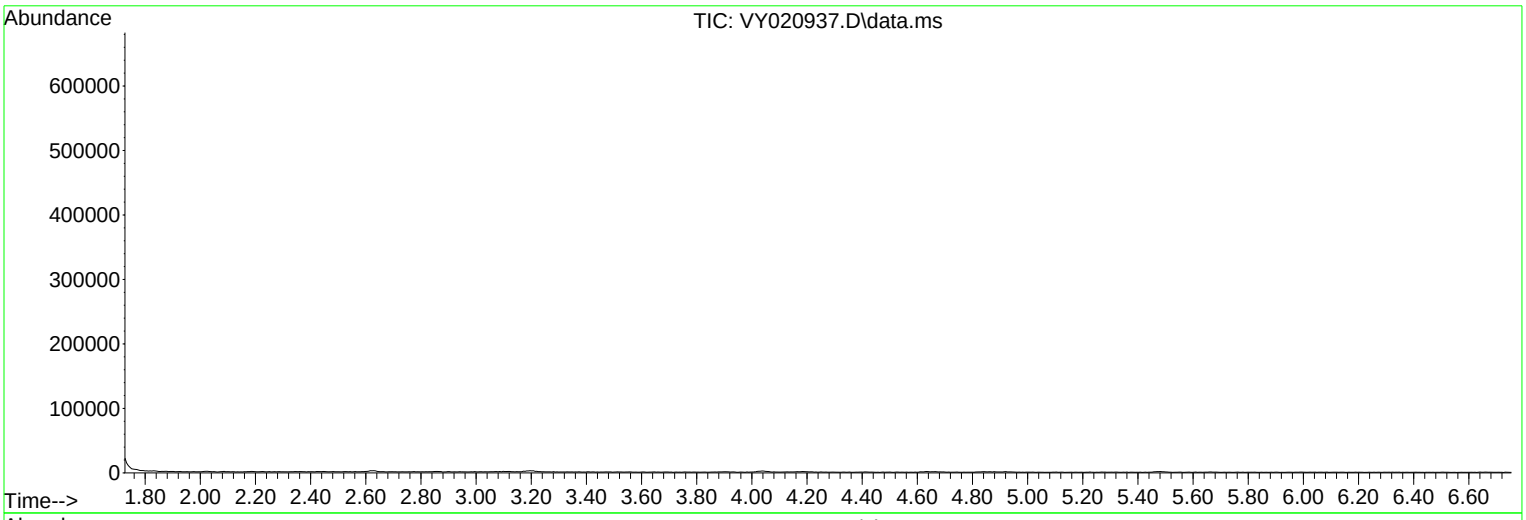
Sample Results: **VY020937.D**

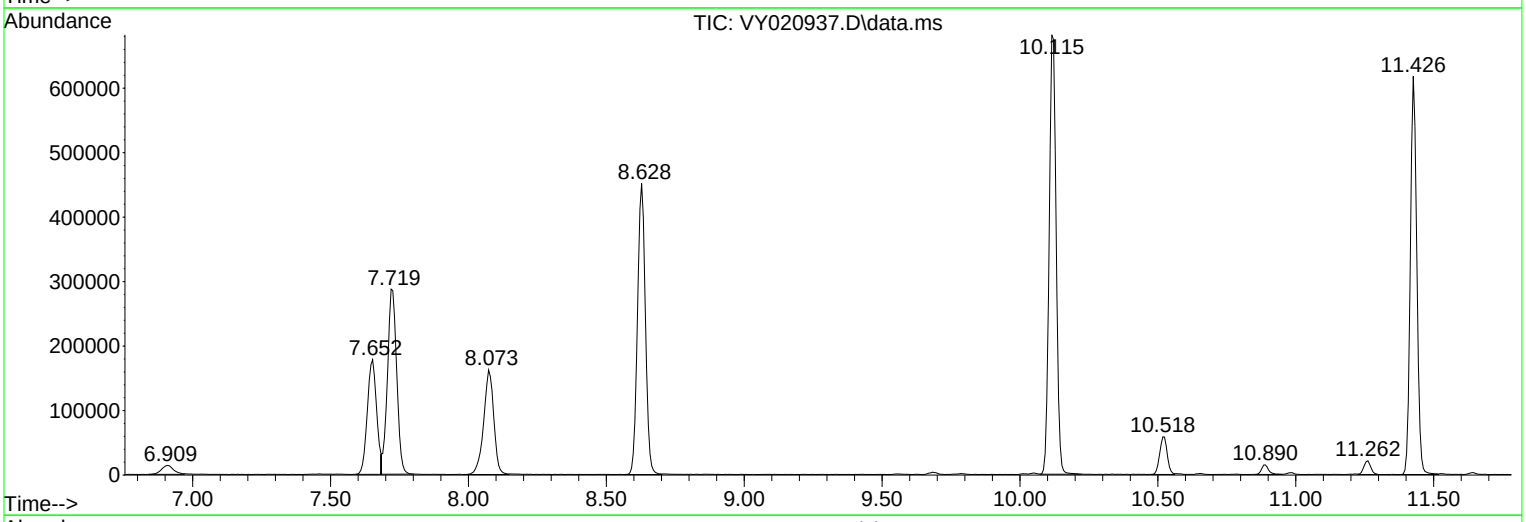
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020937.D
Acq On : 27 Jan 2025 09:51
Operator : SY/MD
Sample : VY0127SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

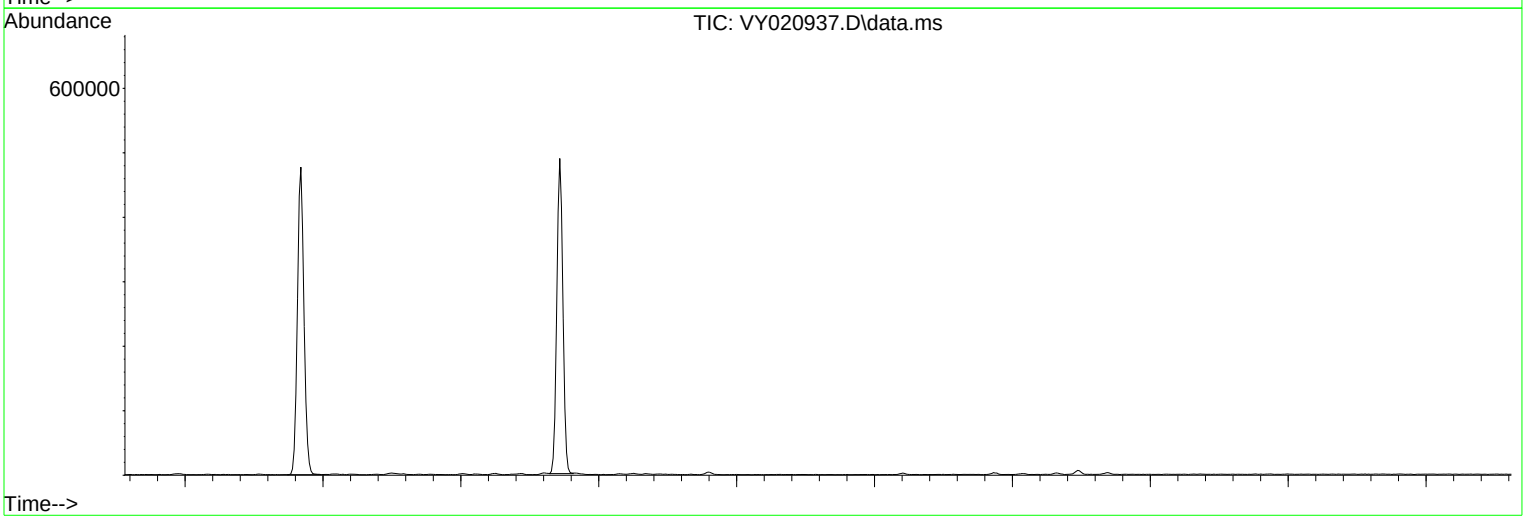
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY020937.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020937.D
Acq On : 27 Jan 2025 09:51
Operator : SY/MD
Sample : VY0127SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Sample Results: **VY020937.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020937.D
Acq On : 27 Jan 2025 09:51
Operator : SY/MD
Sample : VY0127SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.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: **VN085519.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0127WBS01 | SDG No.: | Q1194 |
| Lab Sample ID: | VN0127WBS01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085519.D | 1 | | 01/27/25 16:12 | VN012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 15.9 | | 0.21 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 15.6 | | 0.35 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 16.1 | | 0.34 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 16.7 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 16.8 | | 0.56 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 17.9 | | 0.34 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 17.5 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 17.7 | | 0.26 | 1.00 | ug/L |
| 67-64-1 | Acetone | 91.4 | | 1.40 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 14.8 | | 0.32 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 19.1 | | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 19.9 | | 0.60 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 17.8 | | 0.32 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 17.4 | | 0.25 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 17.9 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 16.7 | | 1.60 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 94.5 | | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 18.2 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 17.8 | | 0.25 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 17.5 | | 0.18 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 18.3 | | 0.26 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 18.5 | | 0.19 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 17.3 | | 0.19 | 1.00 | ug/L |
| 71-43-2 | Benzene | 18.2 | | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 18.4 | | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 17.7 | | 0.32 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 18.1 | | 0.19 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 19.0 | | 0.24 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 99.0 | | 0.75 | 5.00 | ug/L |
| 108-88-3 | Toluene | 19.1 | | 0.18 | 1.00 | ug/L |

Raw Data: **VN085519.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0127WBS01 | SDG No.: | Q1194 |
| Lab Sample ID: | VN0127WBS01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085519.D | 1 | | 01/27/25 16:12 | VN012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 18.7 | | 0.21 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 19.1 | | 0.18 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 18.8 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 100 | | 1.10 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 18.8 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 18.6 | | 0.16 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 19.6 | | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 18.3 | | 0.13 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 18.7 | | 0.16 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 38.3 | | 0.31 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 19.1 | | 0.14 | 1.00 | ug/L |
| 100-42-5 | Styrene | 19.6 | | 0.16 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 19.6 | | 0.21 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 19.2 | | 0.13 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 18.5 | | 0.27 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 17.7 | | 0.24 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 17.6 | | 0.27 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 17.9 | | 0.19 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 19.1 | | 0.46 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 17.3 | | 0.42 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 16.8 | | 0.51 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 47.3 | | 70 (74) - 130 (125) | 95% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.1 | | 70 (75) - 130 (124) | 98% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.9 | | 70 (86) - 130 (113) | 98% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.4 | | 70 (77) - 130 (121) | 99% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 209000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 354000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 310000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 147000 | 13.788 | | | |

Raw Data: **VN085519.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0127WBS01 | SDG No.: | Q1194 |
| Lab Sample ID: | VN0127WBS01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085519.D | 1 | | 01/27/25 16:12 | VN012725 |

| 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

Quantitation Report (QT Reviewed)

Sample Results: **VN085519.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085519.D
Acq On : 27 Jan 2025 16:12
Operator : JC\MD
Sample : VN0127WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 28 02:01:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 208674 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 353856 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 309822 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 147310 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 159253 | 47.278 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 94.560% | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 120488 | 49.081 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 98.160% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 426365 | 48.883 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 97.760% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 147277 | 49.362 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 98.720% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 44950 | 15.909 | ug/l | 99 |
| 3) Chloromethane | 2.359 | 50 | 47704 | 15.594 | ug/l | 98 |
| 4) Vinyl Chloride | 2.512 | 62 | 49504 | 16.100 | ug/l | 99 |
| 5) Bromomethane | 2.959 | 94 | 31105 | 16.747 | ug/l | 96 |
| 6) Chloroethane | 3.124 | 64 | 32682 | 16.765 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.501 | 101 | 79914 | 17.912 | ug/l | 97 |
| 8) Diethyl Ether | 3.959 | 74 | 25429 | 16.499 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 44004 | 17.511 | ug/l | 98 |
| 10) Methyl Iodide | 4.595 | 142 | 51366 | 17.850 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.518 | 59 | 41199 | 106.814 | ug/l # | 86 |
| 12) 1,1-Dichloroethene | 4.336 | 96 | 39715 | 17.733 | ug/l | 93 |
| 13) Acrolein | 4.177 | 56 | 39870 | 75.723 | ug/l | 97 |
| 14) Allyl chloride | 5.024 | 41 | 60984 | 16.781 | ug/l | 99 |
| 15) Acrylonitrile | 5.718 | 53 | 114428 | 93.401 | ug/l | 99 |
| 16) Acetone | 4.424 | 43 | 99525 | 91.444 | ug/l | 99 |
| 17) Carbon Disulfide | 4.712 | 76 | 101875 | 14.774 | ug/l | 97 |
| 18) Methyl Acetate | 5.018 | 43 | 65808 | 19.884 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.795 | 73 | 138922 | 19.104 | ug/l | 100 |
| 20) Methylene Chloride | 5.271 | 84 | 48074 | 17.843 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.789 | 96 | 41676 | 17.413 | ug/l | 95 |
| 22) Diisopropyl ether | 6.665 | 45 | 151624 | 18.798 | ug/l | 96 |
| 23) Vinyl Acetate | 6.600 | 43 | 522202 | 92.509 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.565 | 63 | 87862 | 17.864 | ug/l | 97 |
| 25) 2-Butanone | 7.477 | 43 | 151283 | 94.455 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.483 | 77 | 81242 | 20.431 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.483 | 96 | 50080 | 17.765 | ug/l | 96 |
| 28) Bromochloromethane | 7.812 | 49 | 39958 | 17.463 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.836 | 42 | 99901 | 98.382 | ug/l | 99 |
| 30) Chloroform | 7.965 | 83 | 92835 | 18.263 | ug/l | 97 |
| 31) Cyclohexane | 8.253 | 56 | 71296 | 16.678 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 8.171 | 97 | 82314 | 18.461 | ug/l | 96 |
| 36) 1,1-Dichloropropene | 8.371 | 75 | 59051 | 17.139 | ug/l | 99 |
| 37) Ethyl Acetate | 7.553 | 43 | 64447 | 18.532 | ug/l # | 95 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 71696 | 18.177 | ug/l | 100 |
| 39) Methylcyclohexane | 9.600 | 83 | 56147 | 17.342 | ug/l | 94 |
| 40) Benzene | 8.600 | 78 | 188579 | 18.216 | ug/l | 98 |

Sample Results: **VN085519.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085519.D
Acq On : 27 Jan 2025 16:12
Operator : JC\MD
Sample : VN0127WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 28 02:01:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.777 | 41 | 34171 | 18.887 ug/l | 98 |
| 42) 1,2-Dichloroethane | 8.671 | 62 | 71703 | 18.390 ug/l | 100 |
| 43) Isopropyl Acetate | 8.683 | 43 | 105207 | 18.880 ug/l | 99 |
| 44) Trichloroethene | 9.347 | 130 | 42540 | 17.653 ug/l | 97 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 47873 | 18.105 ug/l | 98 |
| 46) Dibromomethane | 9.706 | 93 | 34364 | 18.011 ug/l | 98 |
| 47) Bromodichloromethane | 9.883 | 83 | 73853 | 18.999 ug/l | 95 |
| 48) Methyl methacrylate | 9.677 | 41 | 48560 | 19.364 ug/l | 100 |
| 49) 1,4-Dioxane | 9.688 | 88 | 16169 | 382.887 ug/l # | 80 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 320107 | 98.995 ug/l | 99 |
| 52) Toluene | 10.624 | 92 | 114724 | 19.126 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.835 | 75 | 68643 | 18.686 ug/l | 98 |
| 54) cis-1,3-Dichloropropene | 10.312 | 75 | 74838 | 19.072 ug/l | 97 |
| 55) 1,1,2-Trichloroethane | 11.018 | 97 | 44521 | 18.755 ug/l | 99 |
| 56) Ethyl methacrylate | 10.871 | 69 | 63931 | 17.301 ug/l | 98 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 78049 | 18.909 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 129626 | 86.050 ug/l | 100 |
| 59) 2-Hexanone | 11.194 | 43 | 229022 | 100.658 ug/l | 100 |
| 60) Dibromochloromethane | 11.353 | 129 | 53997 | 18.841 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 43876 | 18.569 ug/l | 98 |
| 64) Tetrachloroethene | 11.100 | 164 | 41376 | 19.589 ug/l | 90 |
| 65) Chlorobenzene | 11.888 | 112 | 124390 | 18.327 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 46396 | 18.625 ug/l | 98 |
| 67) Ethyl Benzene | 11.959 | 91 | 206785 | 18.706 ug/l | 99 |
| 68) m/p-Xylenes | 12.065 | 106 | 156314 | 38.260 ug/l | 99 |
| 69) o-Xylene | 12.394 | 106 | 74513 | 19.084 ug/l | 99 |
| 70) Styrene | 12.406 | 104 | 126745 | 19.615 ug/l | 99 |
| 71) Bromoform | 12.576 | 173 | 34938 | 19.602 ug/l # | 100 |
| 73) Isopropylbenzene | 12.694 | 105 | 190425 | 19.153 ug/l | 99 |
| 74) N-amyl acetate | 12.494 | 43 | 82210 | 18.396 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 65024 | 18.515 ug/l | 98 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 52136m | 17.413 ug/l | |
| 77) Bromobenzene | 12.976 | 156 | 47540 | 18.302 ug/l | 98 |
| 78) n-propylbenzene | 13.035 | 91 | 224974 | 19.114 ug/l | 100 |
| 79) 2-Chlorotoluene | 13.124 | 91 | 142697 | 18.733 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.171 | 105 | 159046 | 19.367 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.729 | 75 | 21123 | 19.087 ug/l | 98 |
| 82) 4-Chlorotoluene | 13.218 | 91 | 143166 | 18.876 ug/l | 99 |
| 83) tert-Butylbenzene | 13.435 | 119 | 129220 | 18.737 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.482 | 105 | 158145 | 19.321 ug/l | 99 |
| 85) sec-Butylbenzene | 13.612 | 105 | 184179 | 19.269 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.723 | 119 | 147016 | 18.528 ug/l | 98 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 84631 | 17.692 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.812 | 146 | 87319 | 17.611 ug/l | 100 |
| 89) n-Butylbenzene | 14.053 | 91 | 122155 | 17.814 ug/l | 100 |
| 90) Hexachloroethane | 14.329 | 117 | 32263 | 17.731 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 14.100 | 146 | 85356 | 17.888 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 12232 | 19.073 ug/l | 99 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 38292 | 17.267 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 19651 | 16.690 ug/l | 96 |
| 95) Naphthalene | 15.635 | 128 | 108913 | 16.458 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 37774 | 16.834 ug/l | 99 |

Sample Results: **VN085519.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085519.D
Acq On : 27 Jan 2025 16:12
Operator : JC\MD
Sample : VN0127WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

Quant Time: Jan 28 02:01:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

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

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

Sample Results: **VN085519.D**

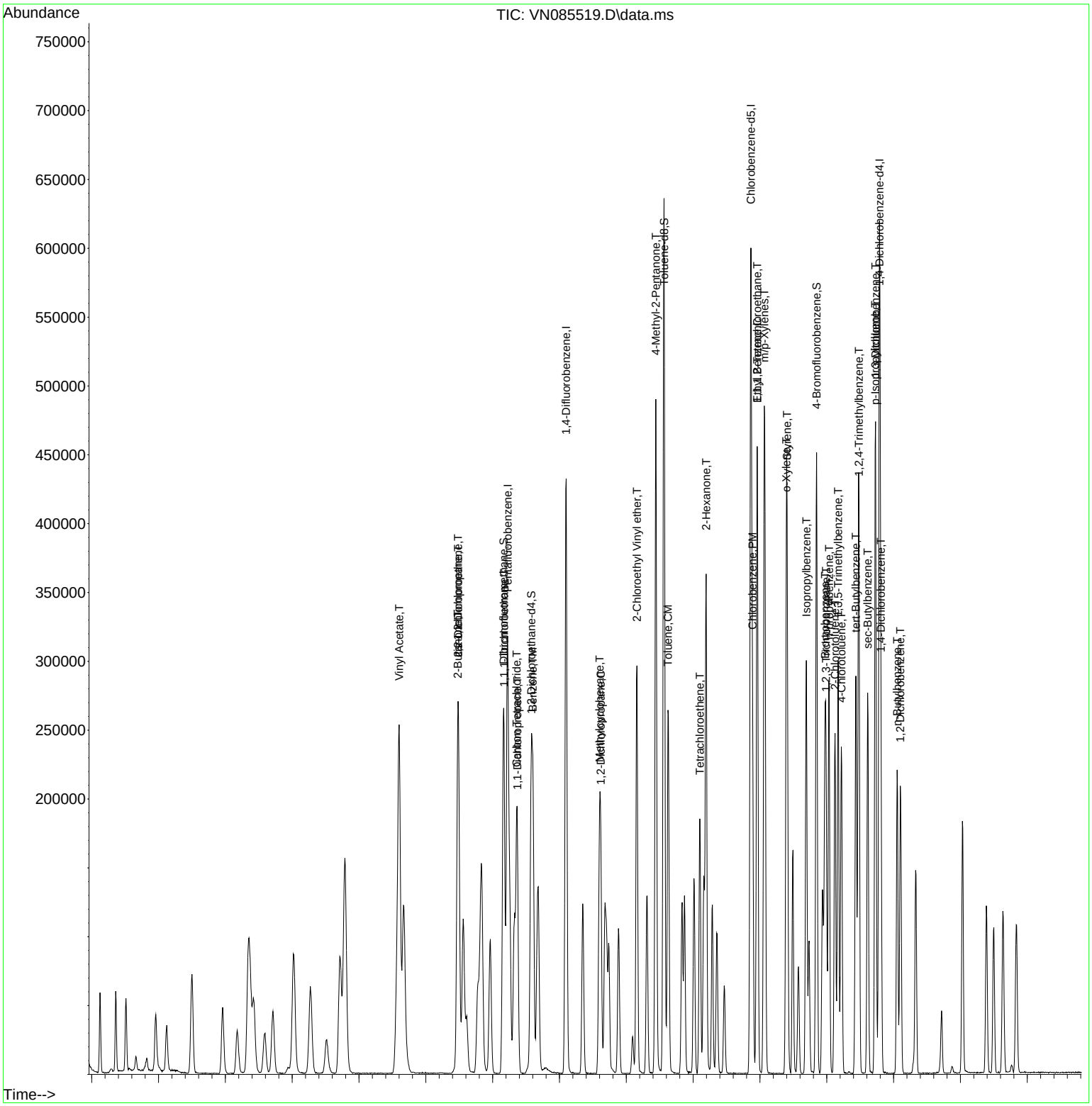
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085519.D
Acq On : 27 Jan 2025 16:12
Operator : JC\MD
Sample : VN0127WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

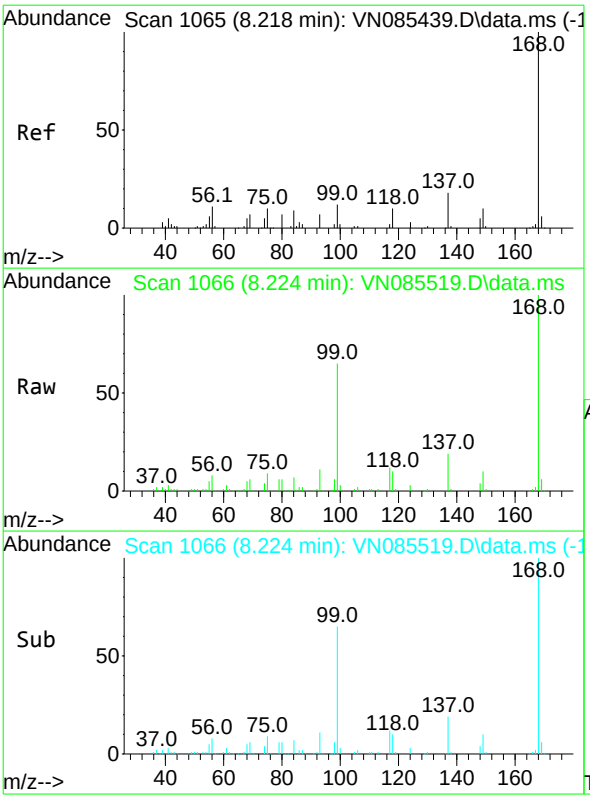
Quant Time: Jan 28 02:01:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

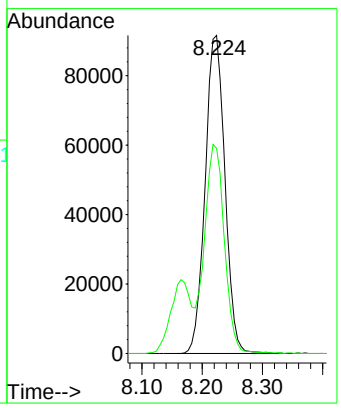
Tgt Ion:168 Resp: 208674

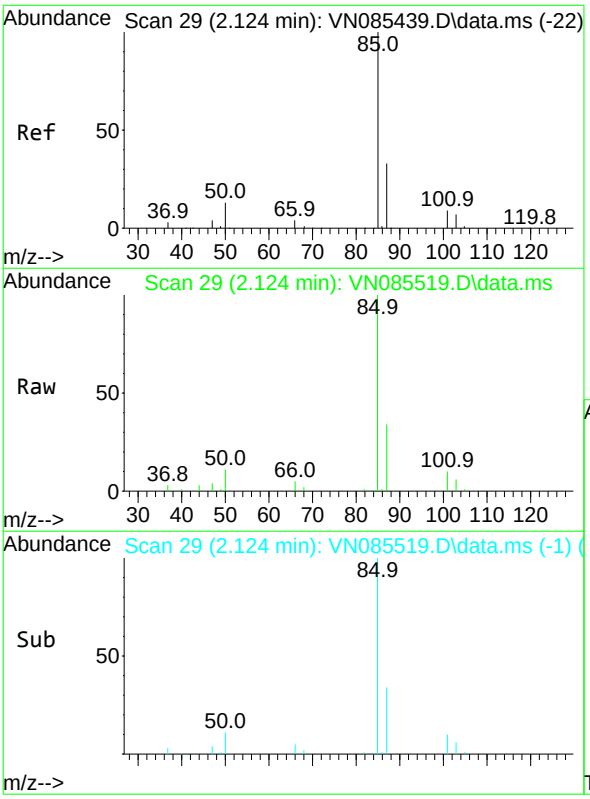
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 64.3 | 53.6 | 80.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

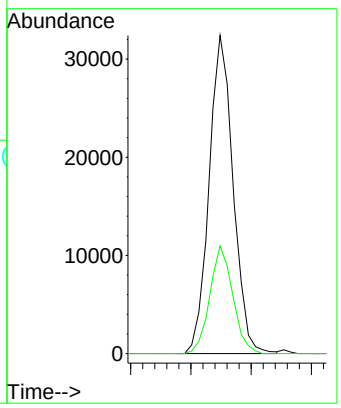


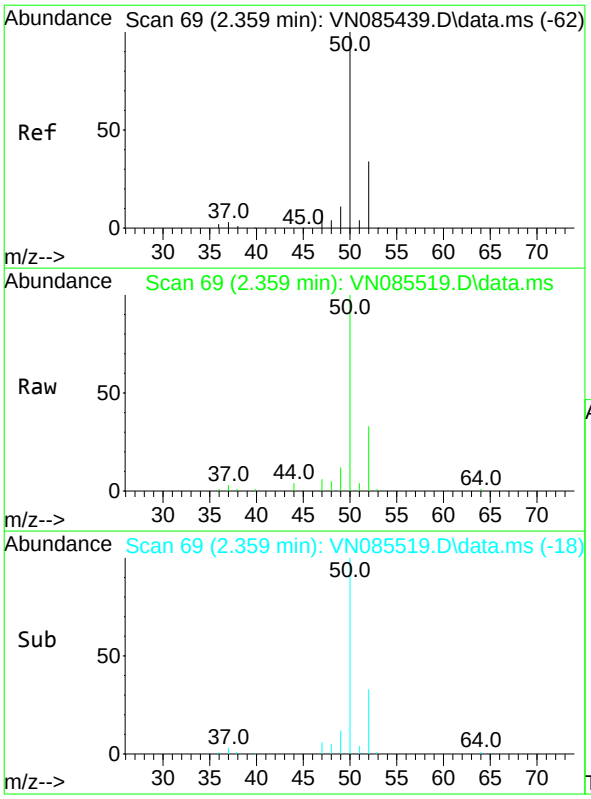




#2
Dichlorodifluoromethane
Concen: 15.909 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 85 Resp: 44950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.9 | 16.7 | 50.1 |

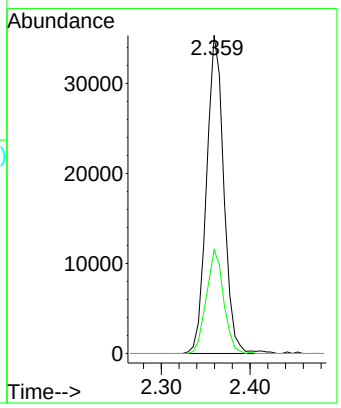





#3
Chloromethane
Concen: 15.594 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 50 Resp: 47704

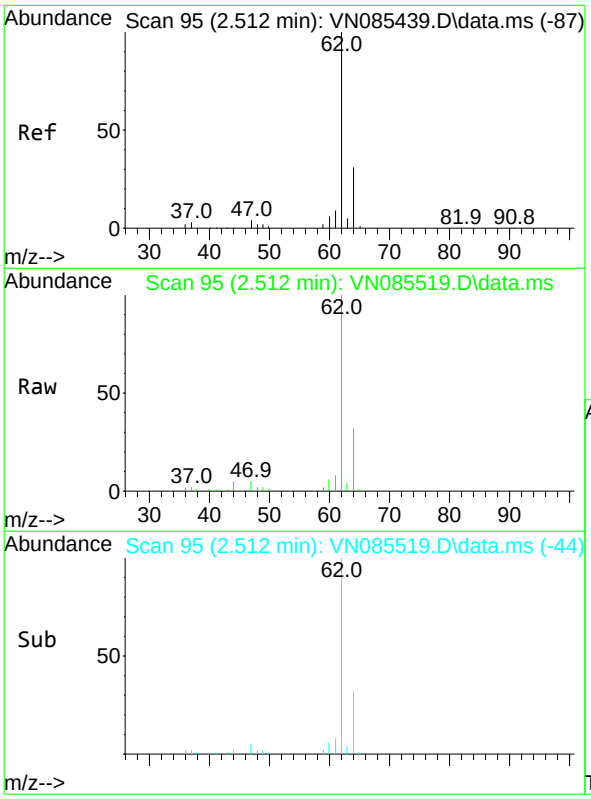
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.6 | 27.0 | 40.6 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

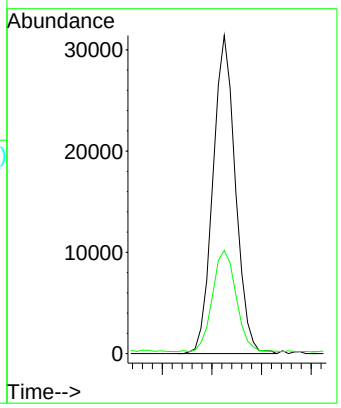
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

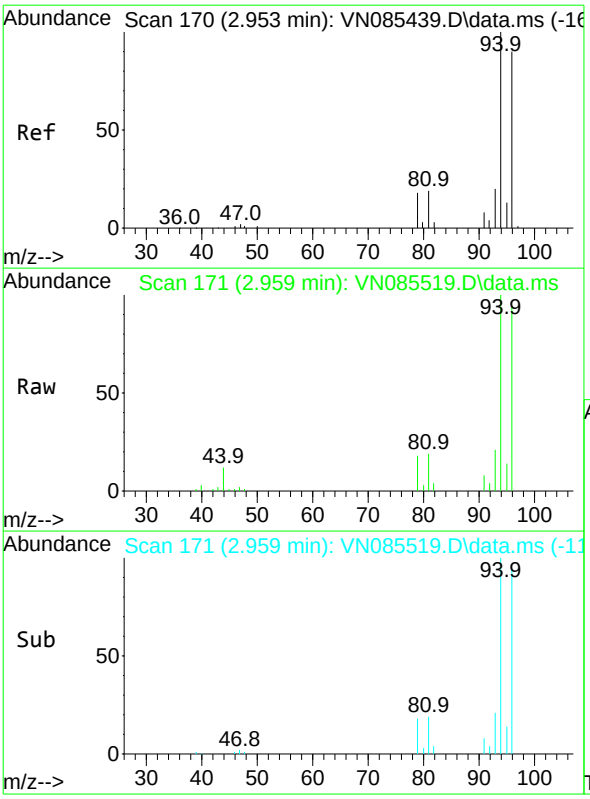



#4
Vinyl Chloride
Concen: 16.100 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 62 Resp: 49504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 24.8 | 37.2 |






#5
Bromomethane
Concen: 16.747 ug/l
RT: 2.959 min Scan# 17
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

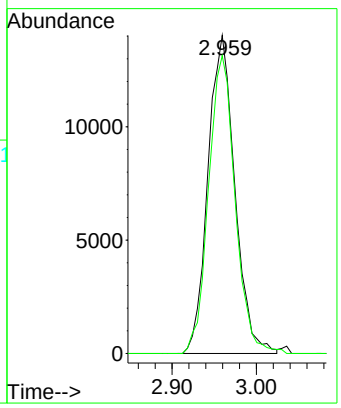
Tgt Ion: 94 Resp: 31105

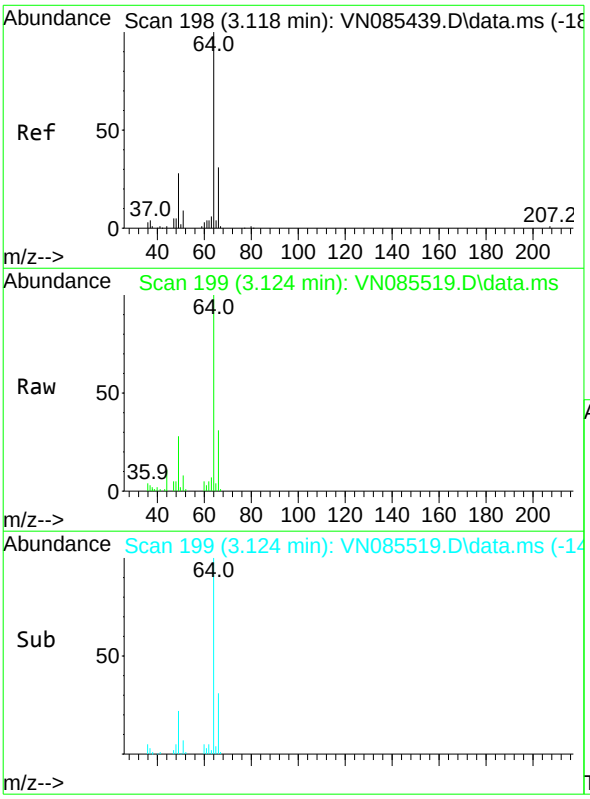
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.6 | 71.8 | 107.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

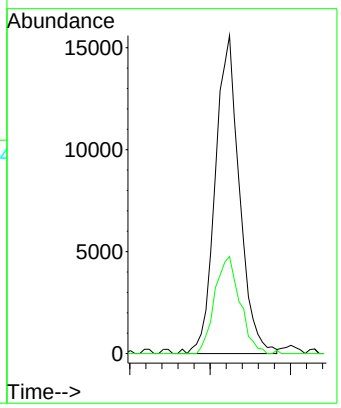


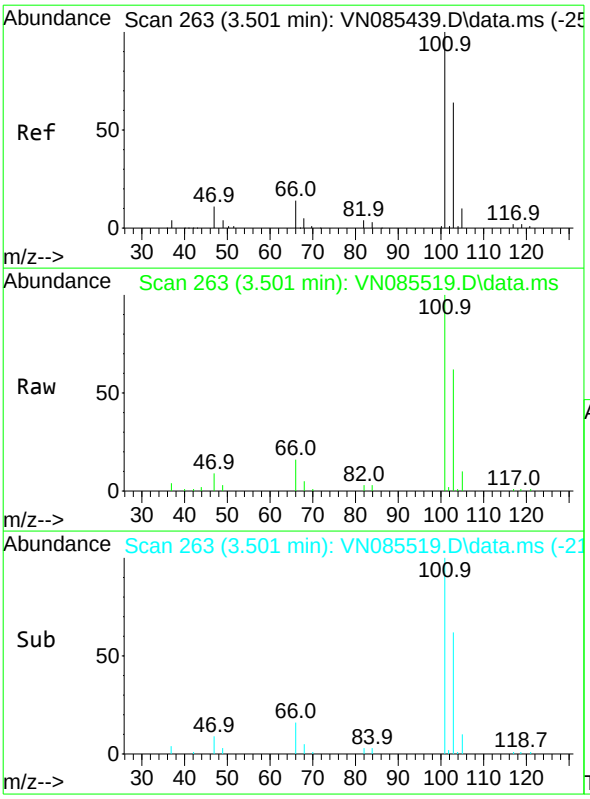




#6
Chloroethane
Concen: 16.765 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 64 Resp: 32682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.5 | 24.6 | 36.8 |






#7
Trichlorofluoromethane
Concen: 17.912 ug/l
RT: 3.501 min Scan# 26
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

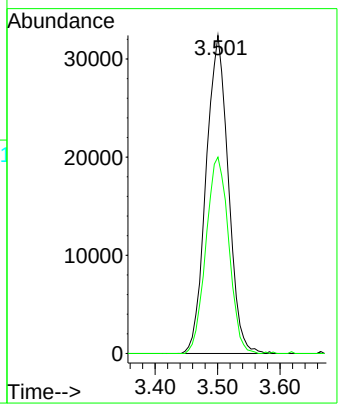
Tgt Ion:101 Resp: 79914

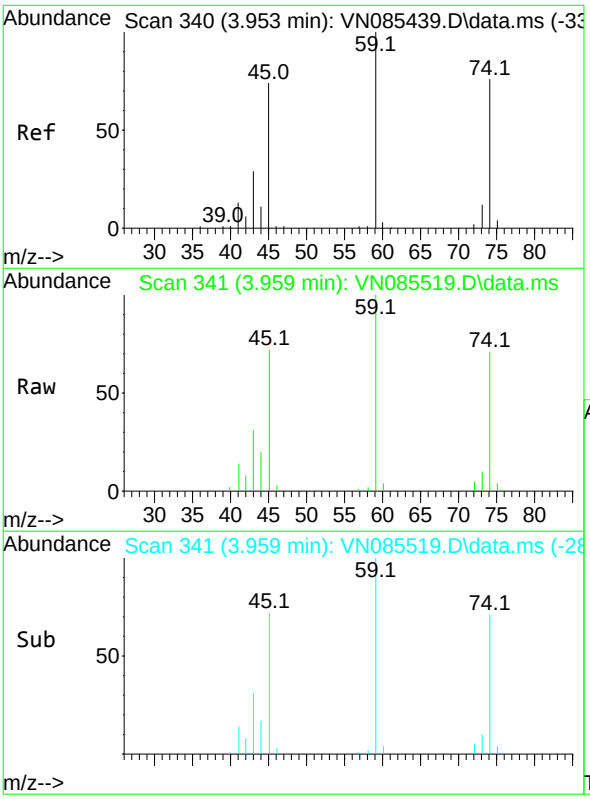
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 61.8 | 51.4 | 77.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

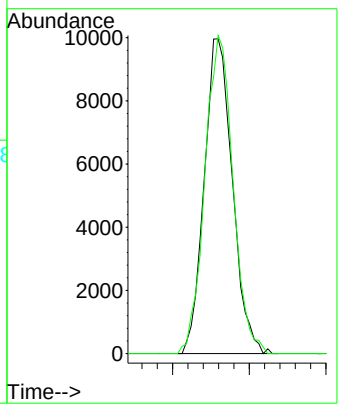


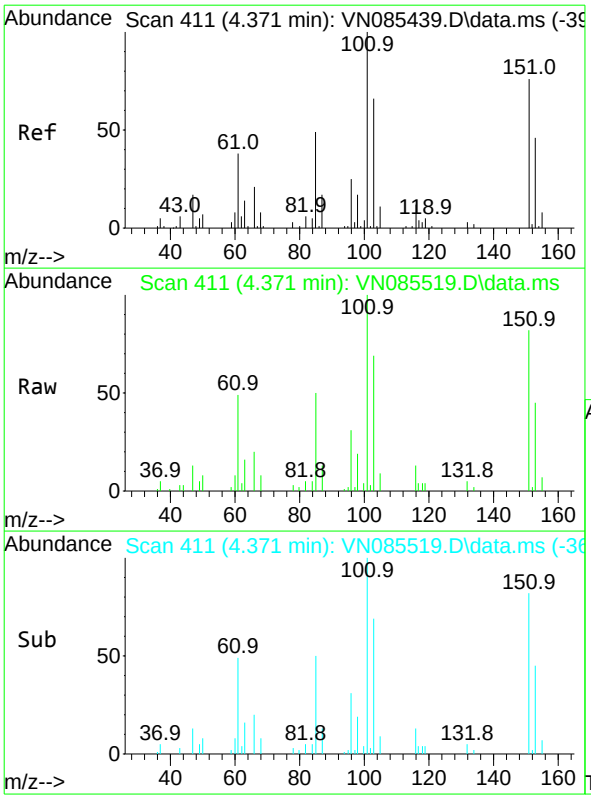




#8
Diethyl Ether
Concen: 16.499 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 74 Resp: 25429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 101.0 | 49.7 | 149.1 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.511 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

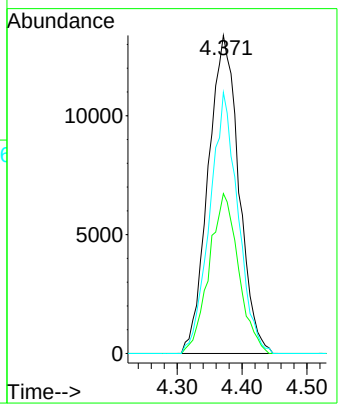
**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

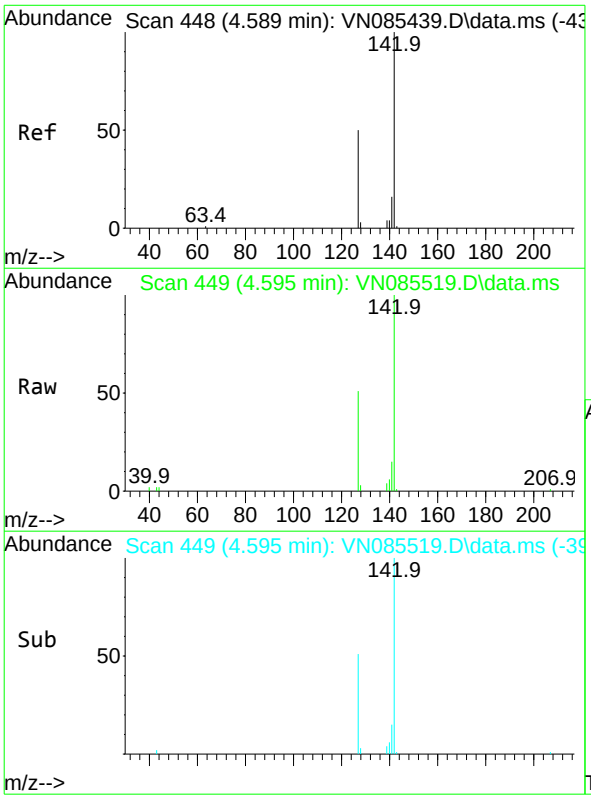
Tgt Ion:101 Resp: 44004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 48.2 | 37.8 | 56.8 |
| 151 | 75.5 | 58.8 | 88.2 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

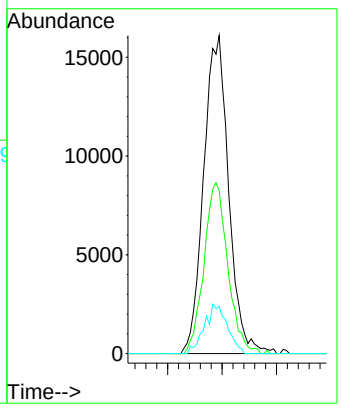


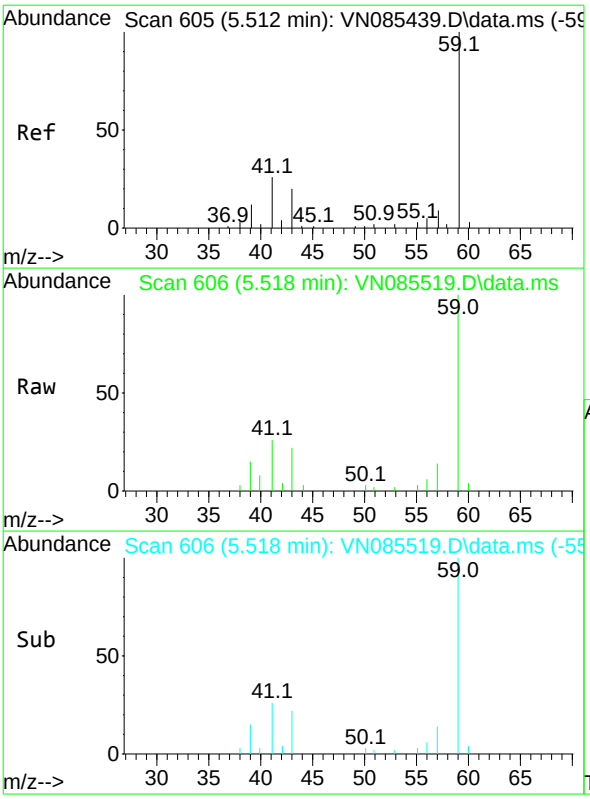




#10
Methyl Iodide
Concen: 17.850 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:142 Resp: 51366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 51.3 | 40.3 | 60.5 |
| 141 | 14.8 | 12.8 | 19.2 |






#11
Tert butyl alcohol
Concen: 106.814 ug/l
RT: 5.518 min Scan# 60
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

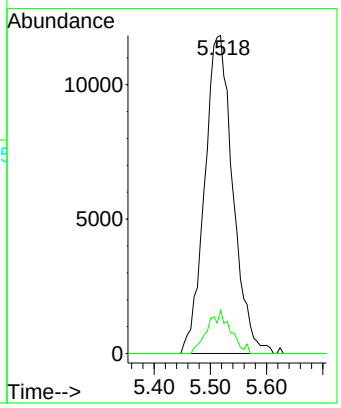
Tgt Ion: 59 Resp: 41199

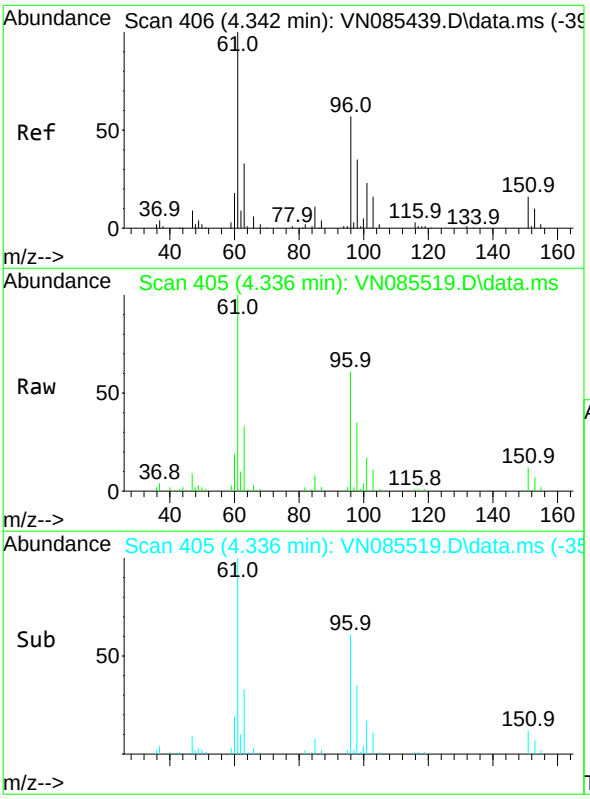
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 5.4 | 8.6 | 13.0# |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

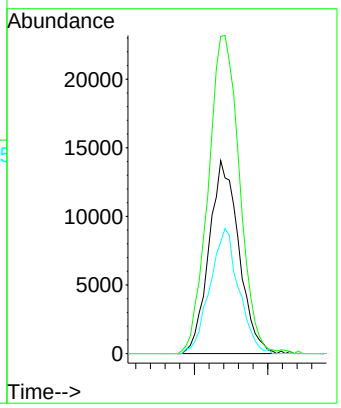


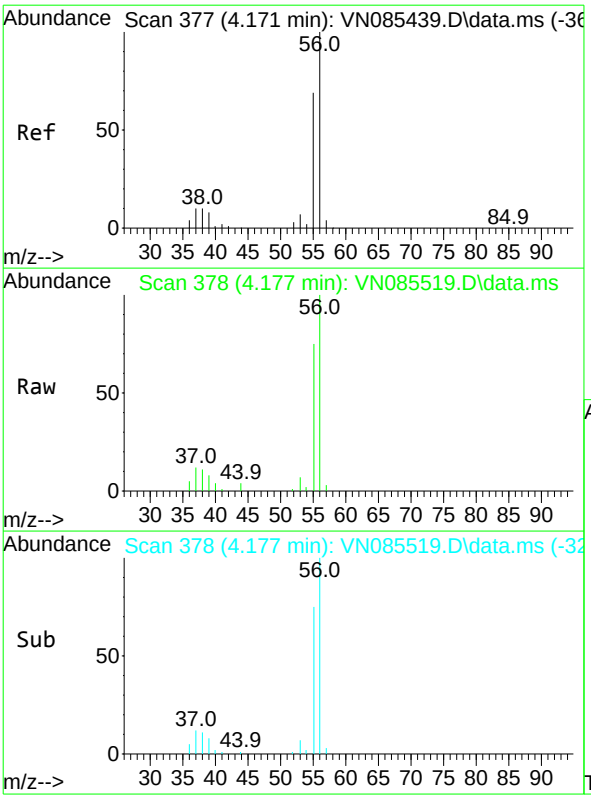




#12
1,1-Dichloroethene
Concen: 17.733 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 96 Resp: 39715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 164.4 | 141.0 | 211.4 |
| 98 | 57.8 | 49.0 | 73.6 |






#13
Acrolein
Concen: 75.723 ug/l
RT: 4.177 min Scan# 37
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

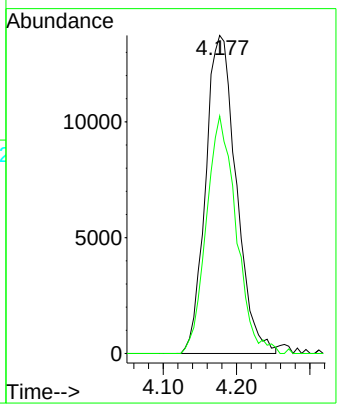
Tgt Ion: 56 Resp: 39870

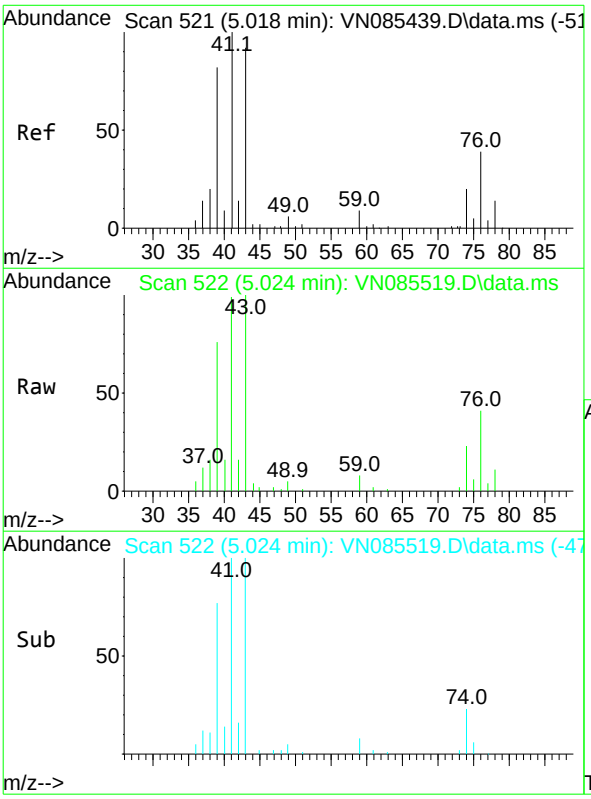
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.7 | 56.3 | 84.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

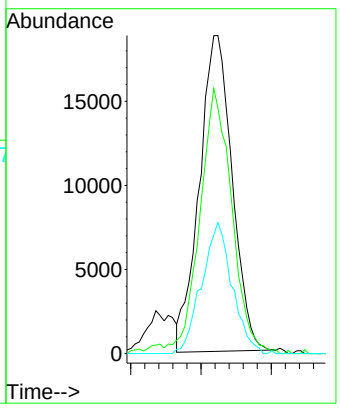


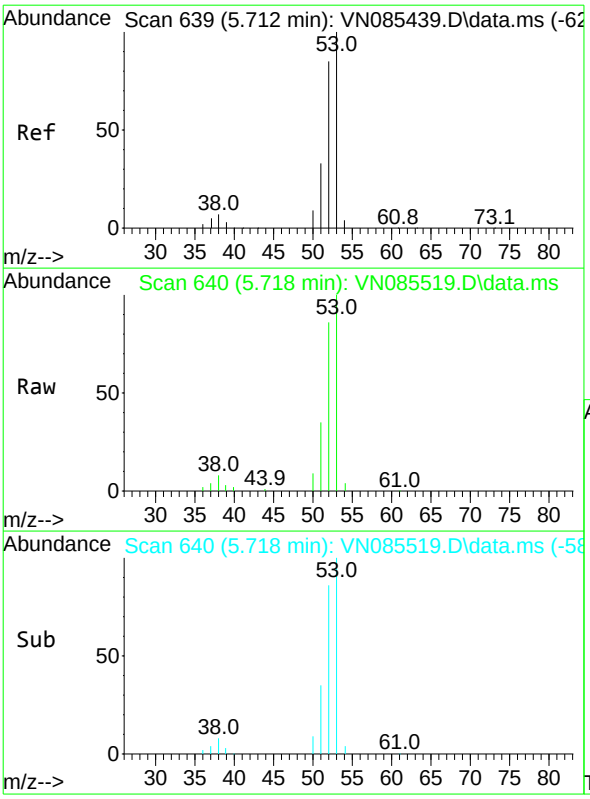




#14
Allyl chloride
Concen: 16.781 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 41 Resp: 60984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 81.3 | 64.4 | 96.6 |
| 76 | 38.4 | 30.5 | 45.7 |






#15
Acrylonitrile
Concen: 93.401 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

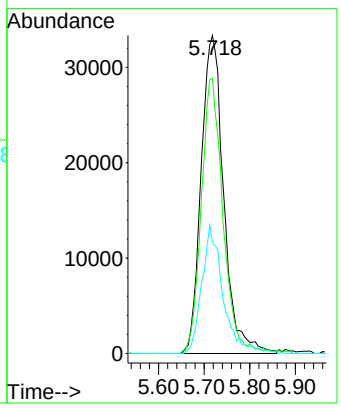
Tgt Ion: 53 Resp: 114428

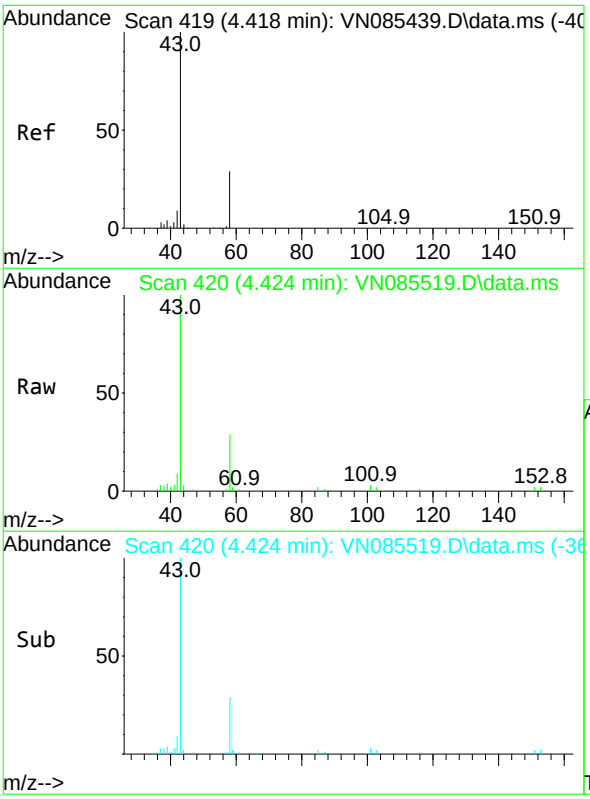
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.2 | 65.5 | 98.3 |
| 51 | 37.8 | 29.8 | 44.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

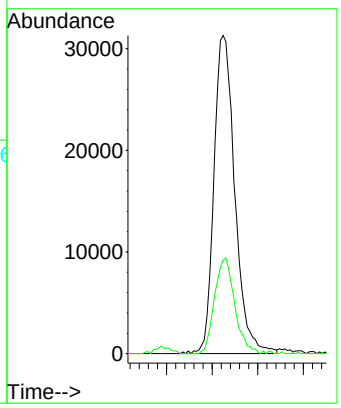


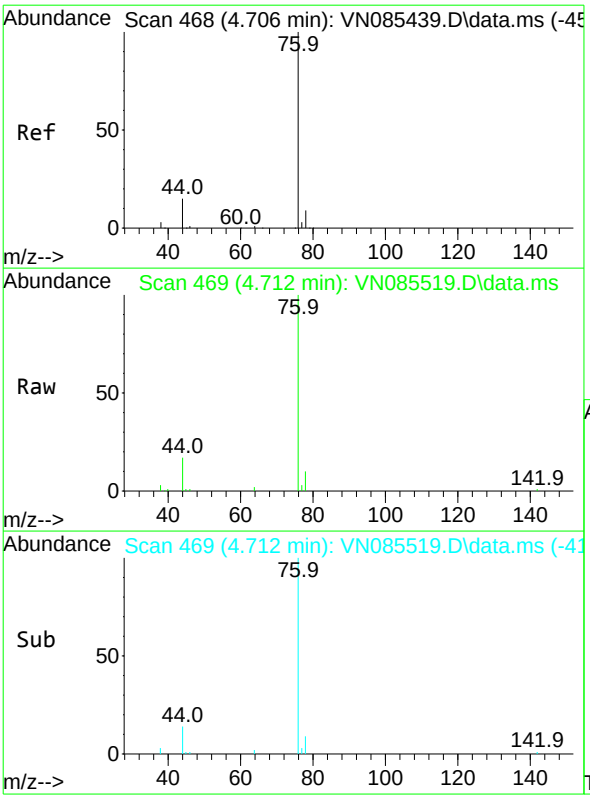




#16
Acetone
Concen: 91.444 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 43 Resp: 99525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.4 | 23.8 | 35.6 |






#17
Carbon Disulfide
Concen: 14.774 ug/l
RT: 4.712 min Scan# 46
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

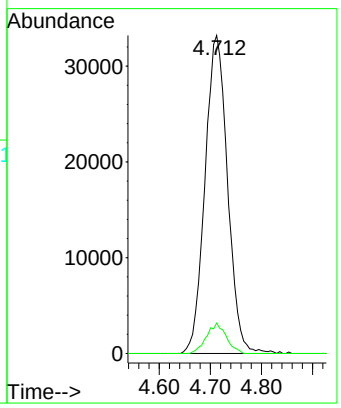
Tgt Ion: 76 Resp: 101875

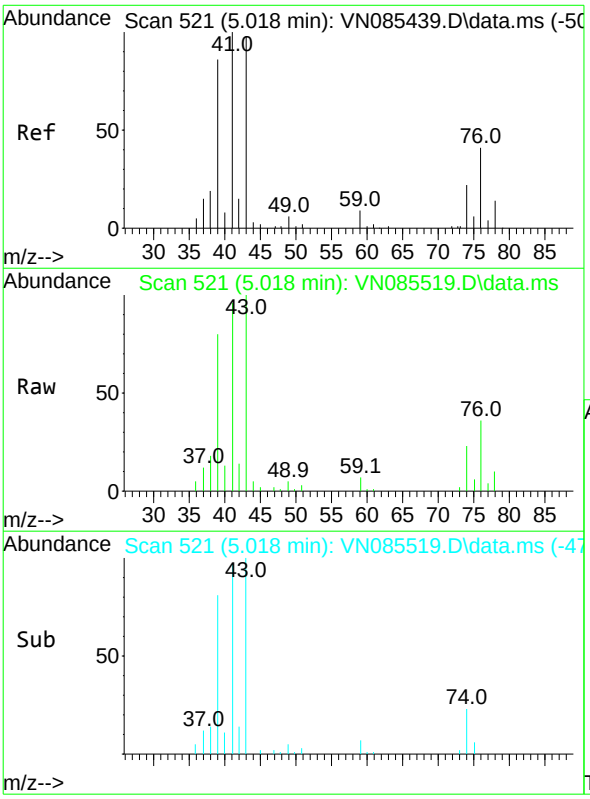
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.6 | 6.9 | 10.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

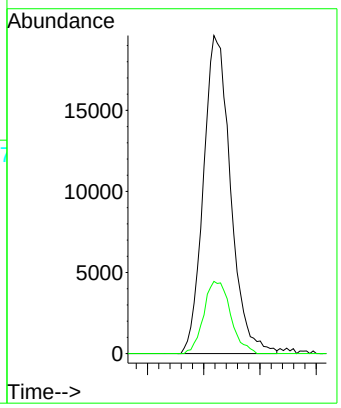


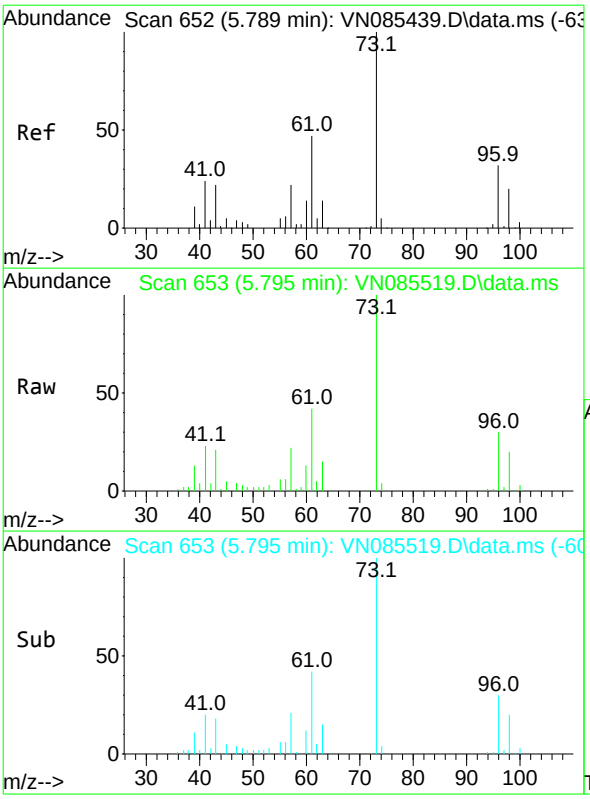




#18
Methyl Acetate
Concen: 19.884 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 43 Resp: 65808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 22.4 | 18.6 | 28.0 |






#19
Methyl tert-butyl Ether
Concen: 19.104 ug/l
RT: 5.795 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

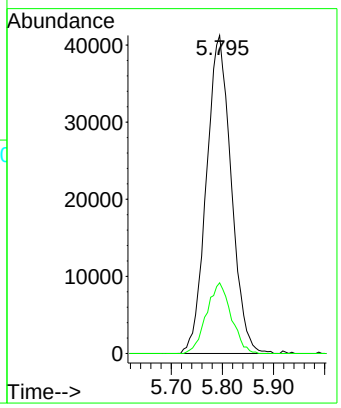
Tgt Ion: 73 Resp: 138922

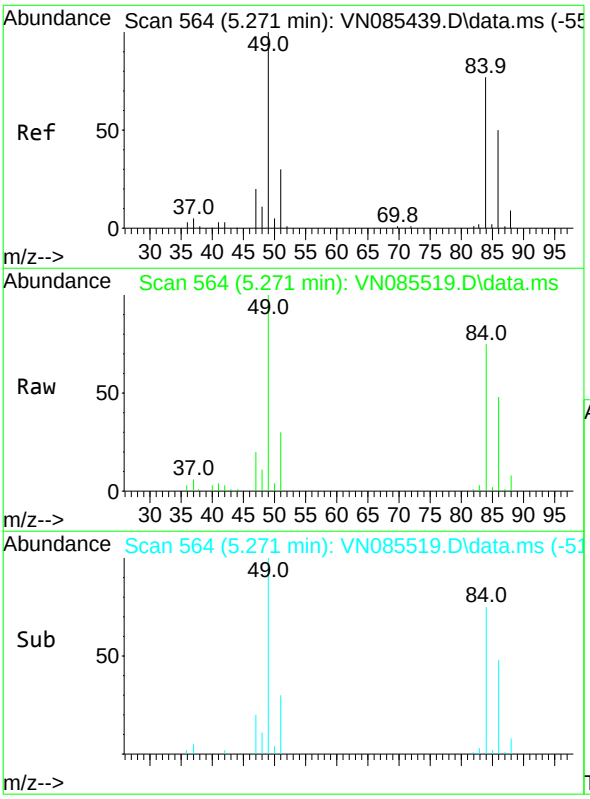
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.2 | 17.8 | 26.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

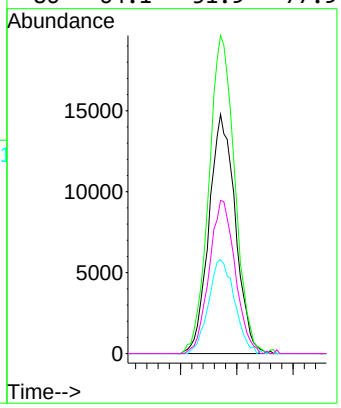


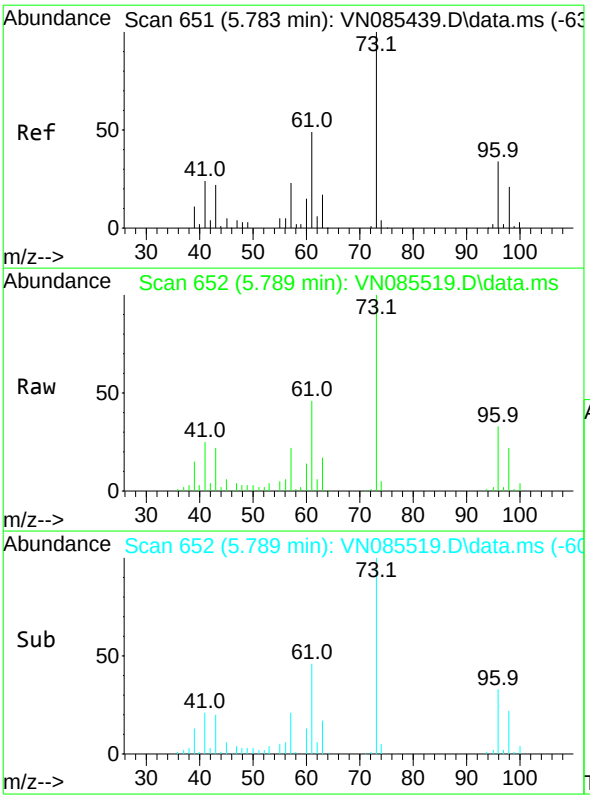




#20
Methylene Chloride
Concen: 17.843 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 84 Resp: 48074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 133.0 | 104.1 | 156.1 |
| 51 | 39.3 | 31.0 | 46.4 |
| 86 | 64.1 | 51.9 | 77.9 |






#21
trans-1,2-Dichloroethene
Concen: 17.413 ug/l
RT: 5.789 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

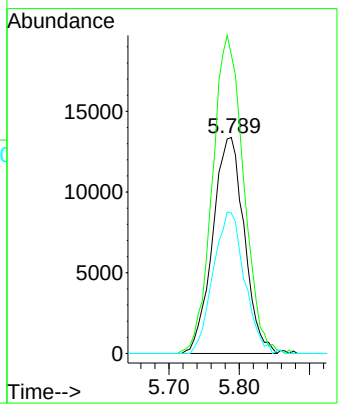
Tgt Ion: 96 Resp: 41676

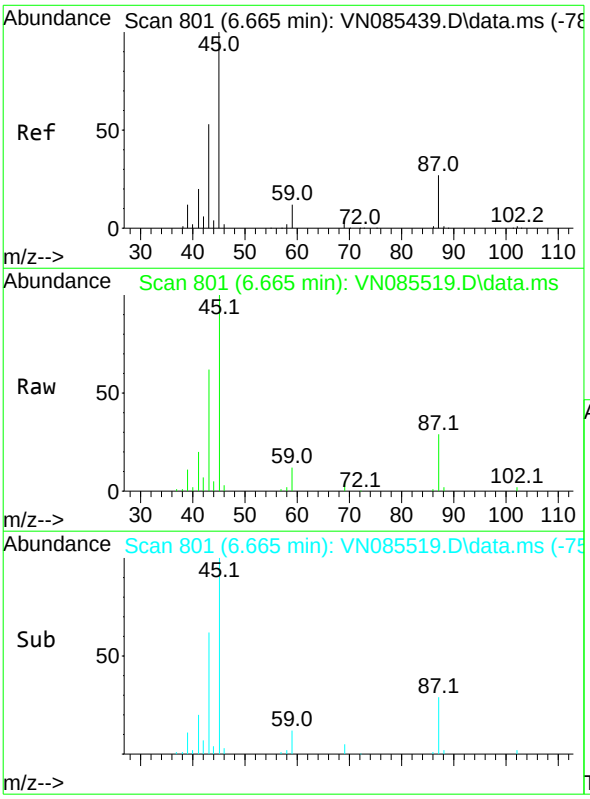
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.3 | 115.7 | 173.5 |
| 98 | 65.0 | 49.8 | 74.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

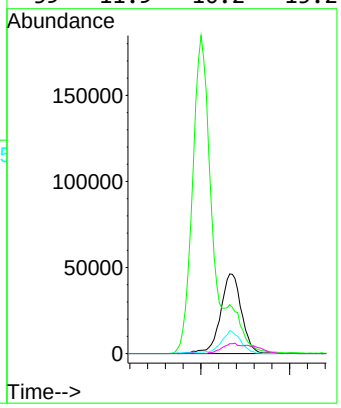


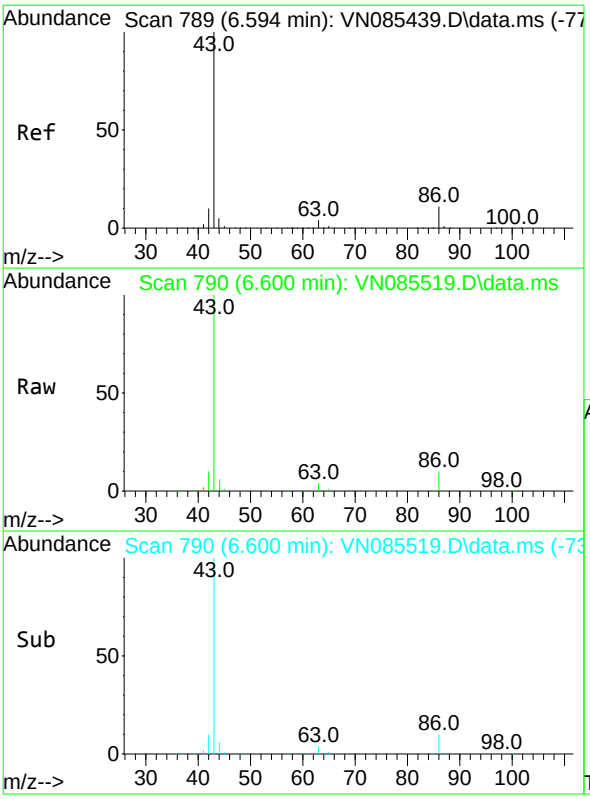




#22
Diisopropyl ether
Concen: 18.798 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 45 Resp: 151624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.7 | 45.0 | 67.6 |
| 87 | 28.8 | 21.8 | 32.8 |
| 59 | 11.9 | 10.2 | 15.2 |






#23
Vinyl Acetate
Concen: 92.509 ug/l
RT: 6.600 min Scan# 79
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 43 Resp: 522202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.0 | 8.4 | 12.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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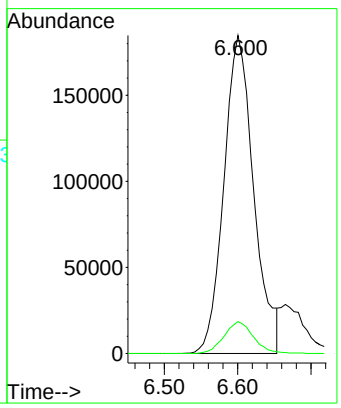
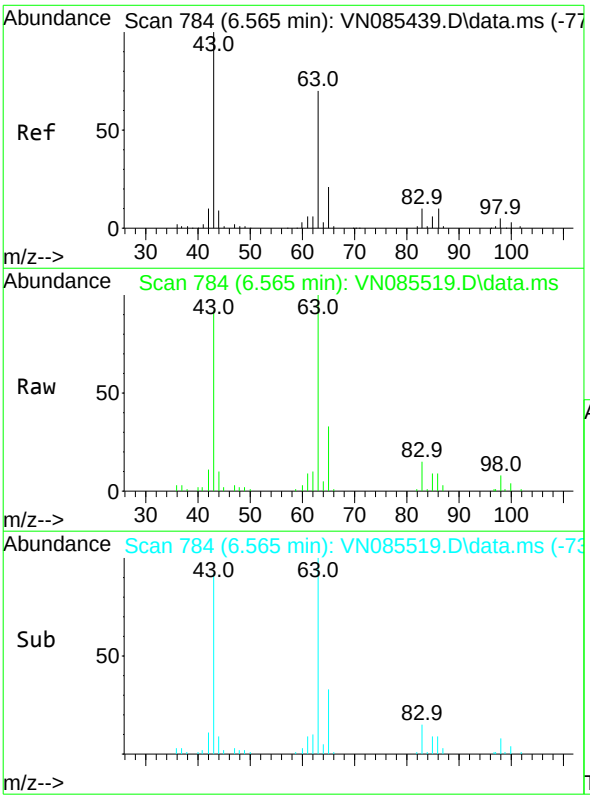
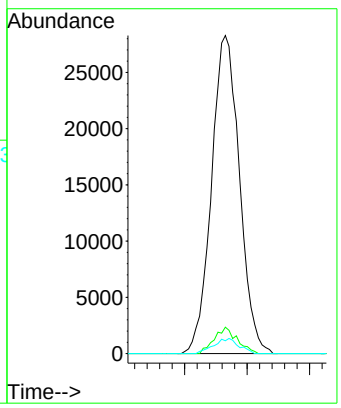


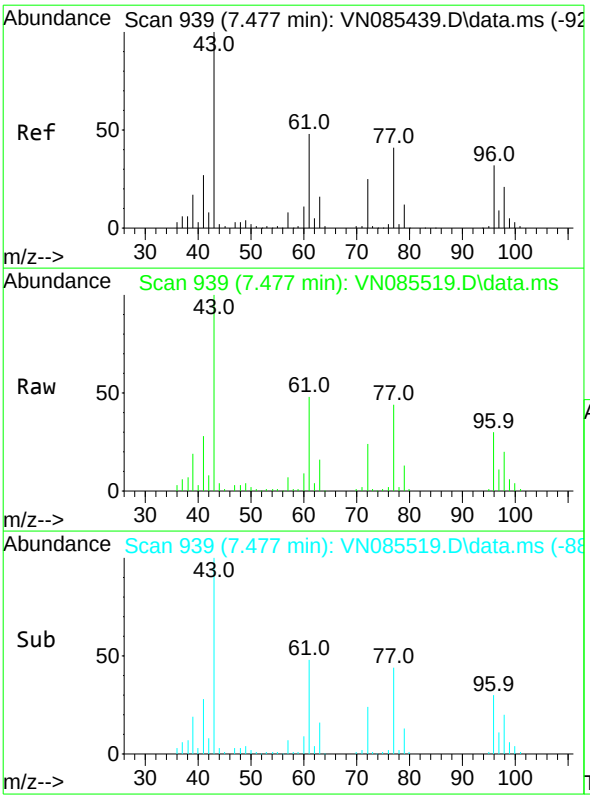




#24
1,1-Dichloroethane
Concen: 17.864 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 63 Resp: 87862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.3 | 3.3 | 9.8 |
| 100 | 4.0 | 2.0 | 6.0 |






#25
2-Butanone
Concen: 94.455 ug/l
RT: 7.477 min Scan# 93
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

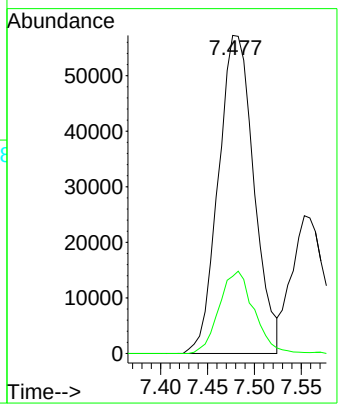
Tgt Ion: 43 Resp: 151283

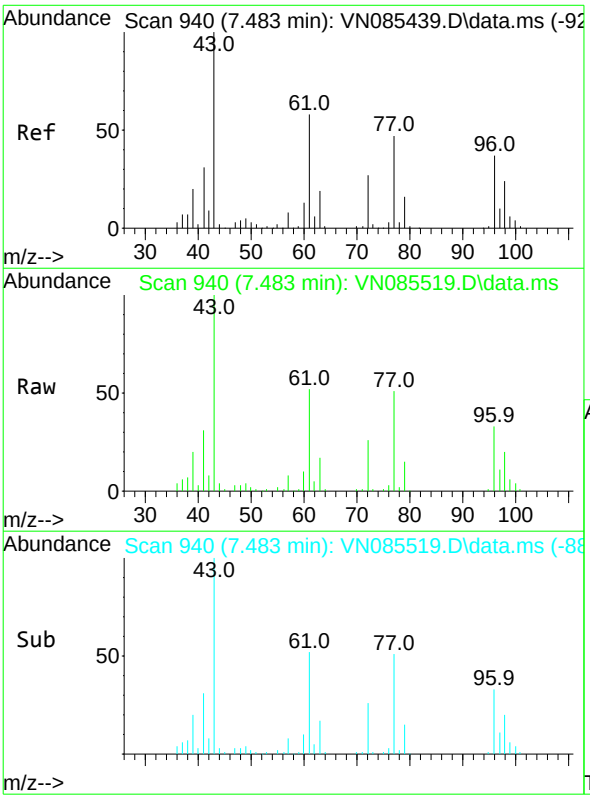
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.3 | 20.2 | 30.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

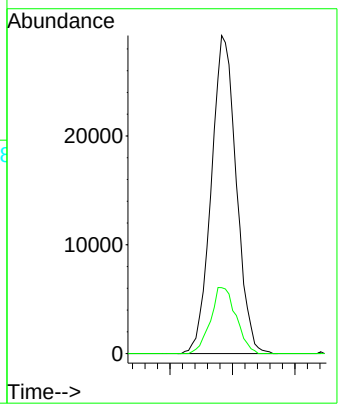


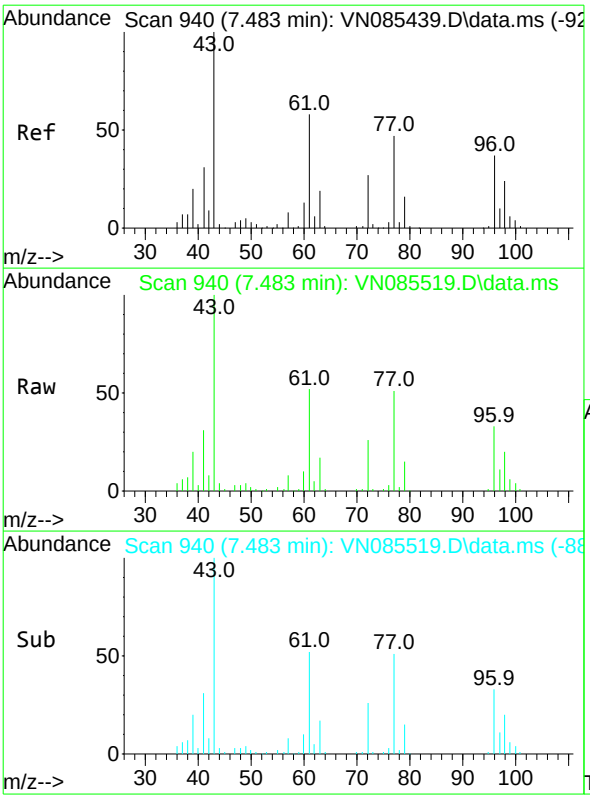




#26
2,2-Dichloropropane
Concen: 20.431 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 77 Resp: 81242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.2 | 10.7 | 32.1 |






#27
cis-1,2-Dichloroethene
Concen: 17.765 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

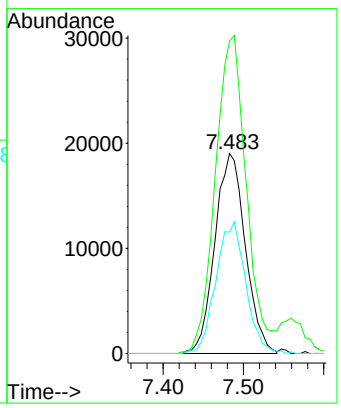
**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

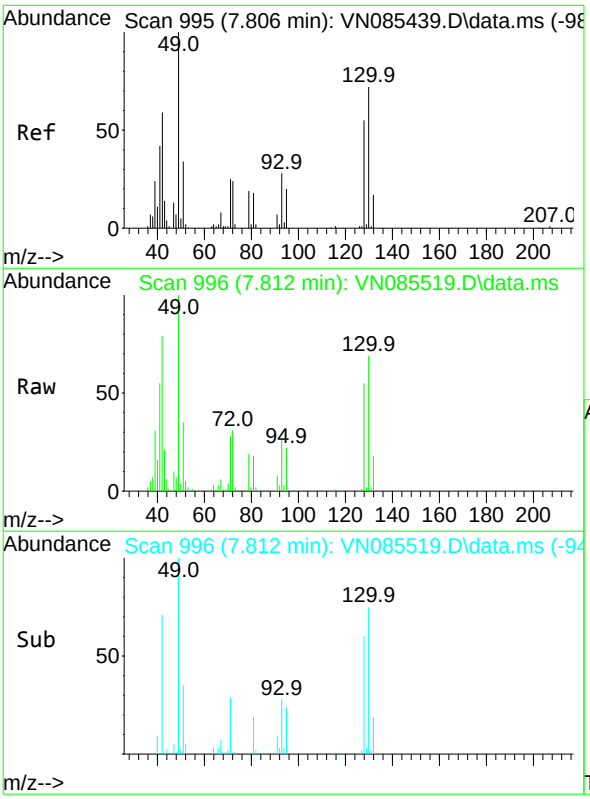
Tgt Ion: 96 Resp: 50080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 163.0 | 0.0 | 311.8 |
| 98 | 64.6 | 0.0 | 126.0 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

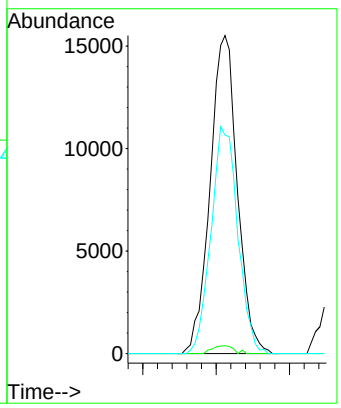


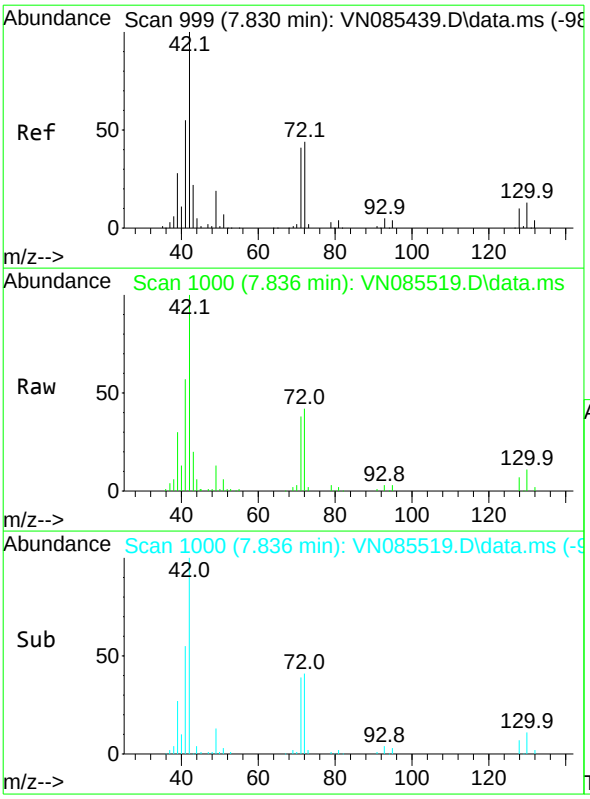




#28
Bromochloromethane
Concen: 17.463 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 49 Resp: 39958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 4.4 |
| 130 | 70.0 | 55.0 | 82.4 |






#29
Tetrahydrofuran
Concen: 98.382 ug/l
RT: 7.836 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

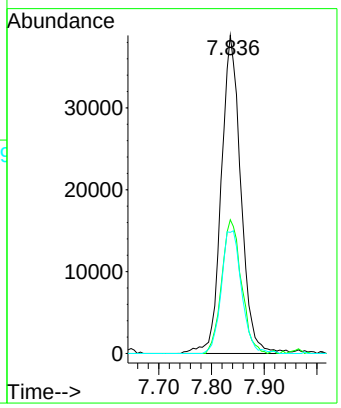
Tgt Ion: 42 Resp: 99901

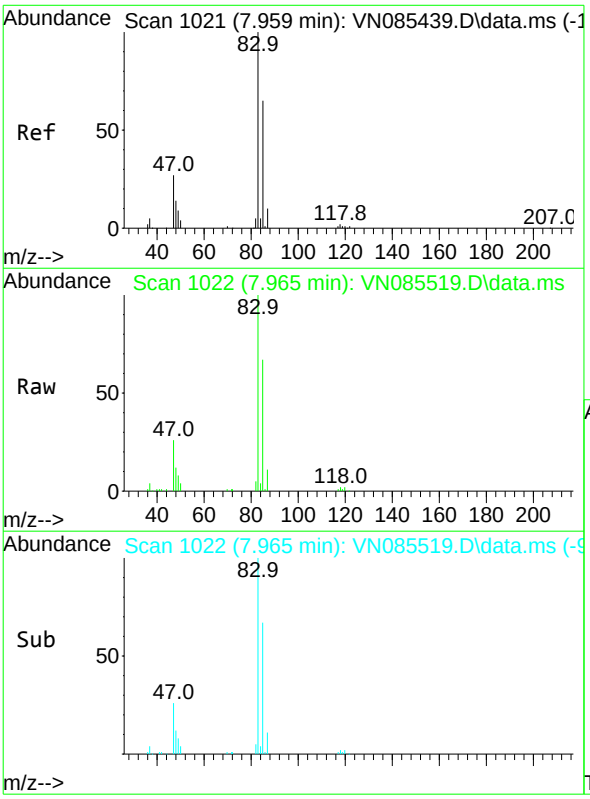
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.4 | 34.2 | 51.2 |
| 71 | 40.1 | 32.5 | 48.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

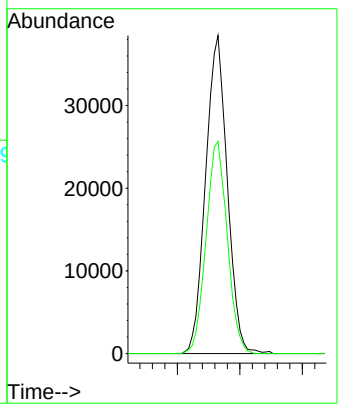


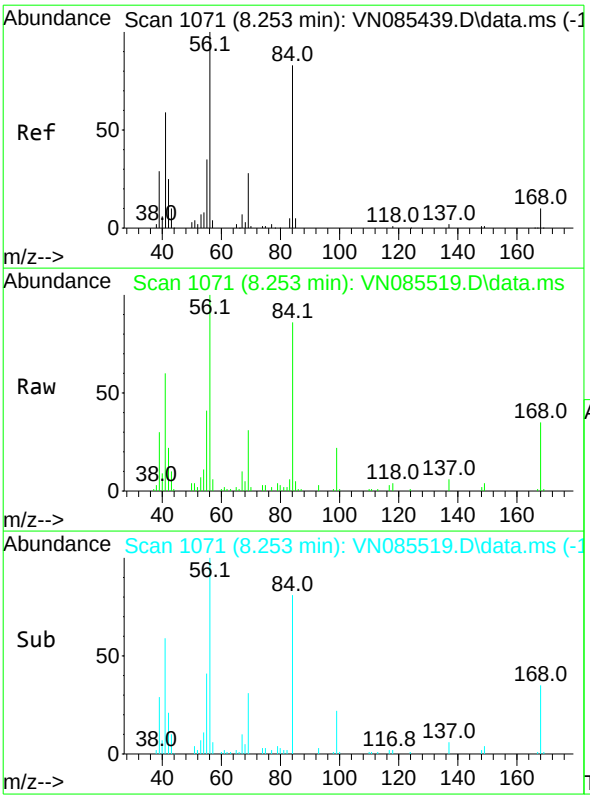




#30
Chloroform
Concen: 18.263 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 83 Resp: 92835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.7 | 51.8 | 77.6 |






#31
Cyclohexane
Concen: 16.678 ug/l
RT: 8.253 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

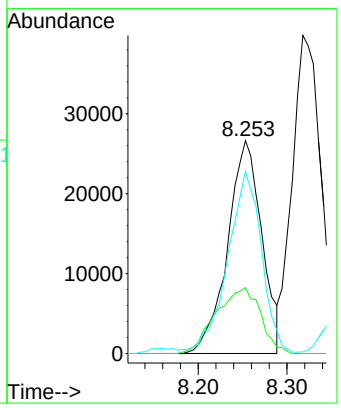
**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

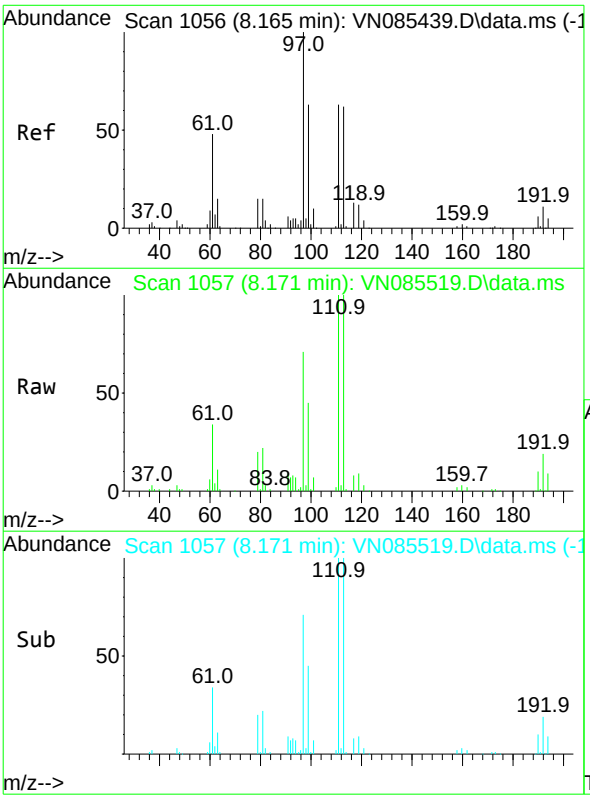
Tgt Ion: 56 Resp: 71296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 30.9 | 22.2 | 33.4 |
| 84 | 84.0 | 66.4 | 99.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

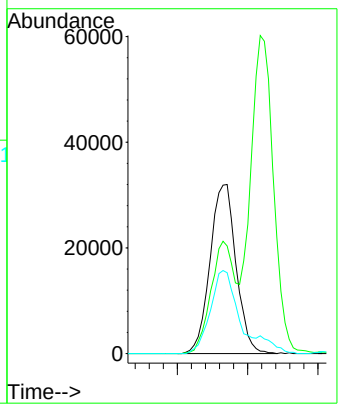


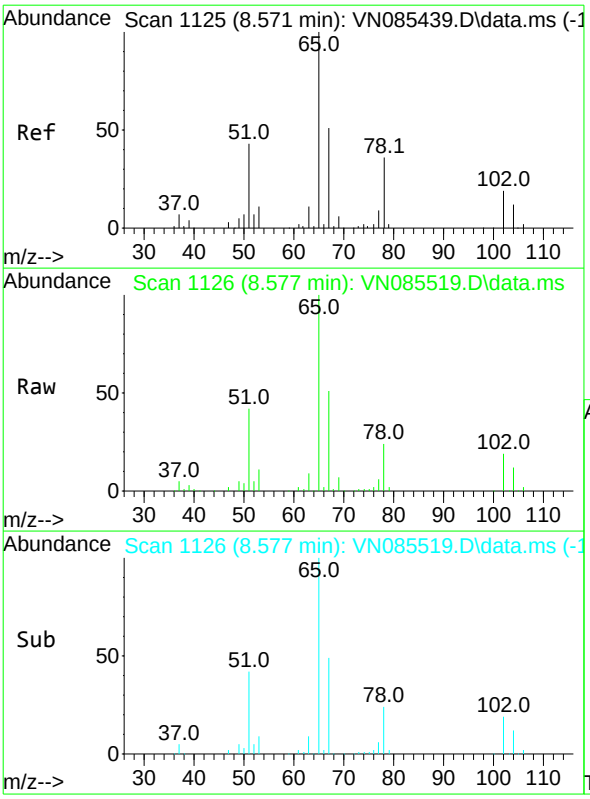




#32
1,1,1-Trichloroethane
Concen: 18.461 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 97 Resp: 82314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.1 | 49.8 | 74.6 |
| 61 | 57.1 | 41.4 | 62.2 |






#33
1,2-Dichloroethane-d4
Concen: 47.278 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

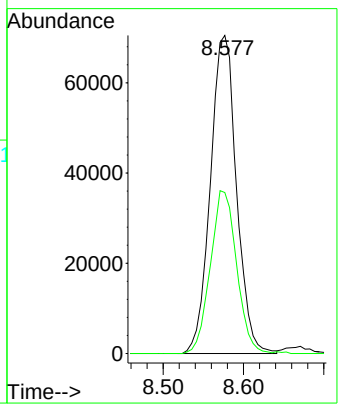
**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

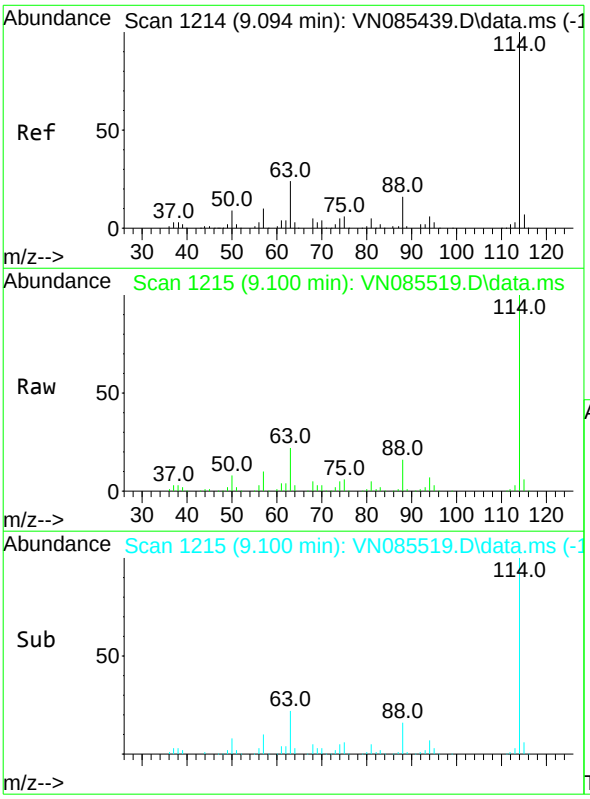
Tgt Ion: 65 Resp: 159253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.4 | 0.0 | 101.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

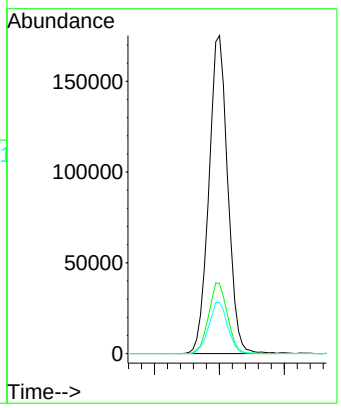


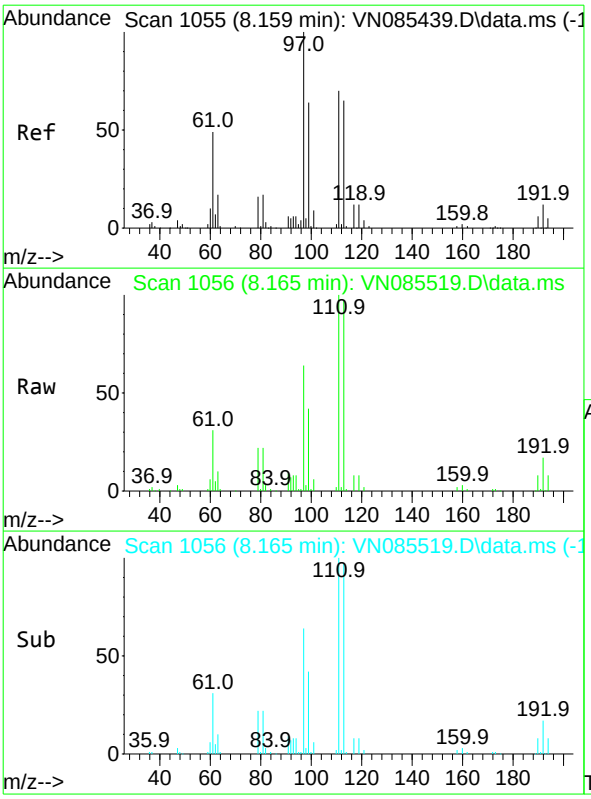




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:114 Resp: 353856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.0 | 0.0 | 47.6 |
| 88 | 16.0 | 0.0 | 32.6 |






#35
Dibromofluoromethane
Concen: 49.081 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

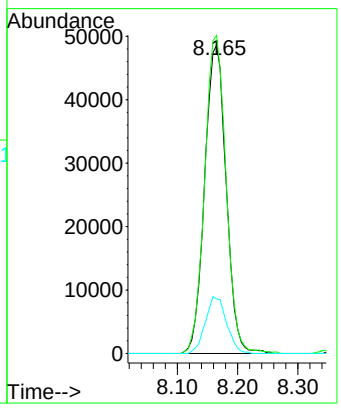
Tgt Ion:113 Resp: 120488

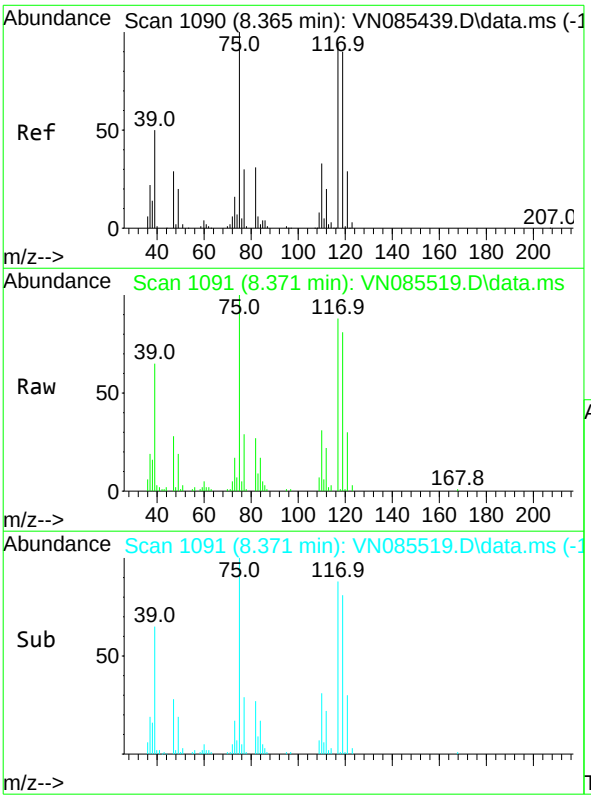
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.9 | 82.7 | 124.1 |
| 192 | 18.2 | 14.3 | 21.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

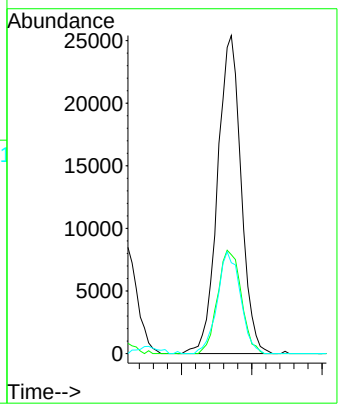


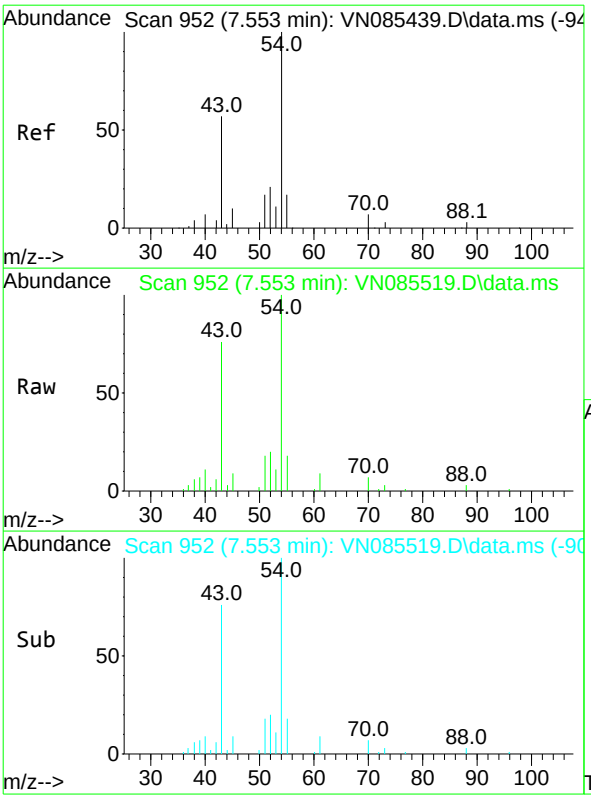




#36
1,1-Dichloropropene
Concen: 17.139 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 75 Resp: 59051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 32.6 | 16.5 | 49.5 |
| 77 | 31.5 | 24.4 | 36.6 |






#37
Ethyl Acetate
Concen: 18.532 ug/l
RT: 7.553 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

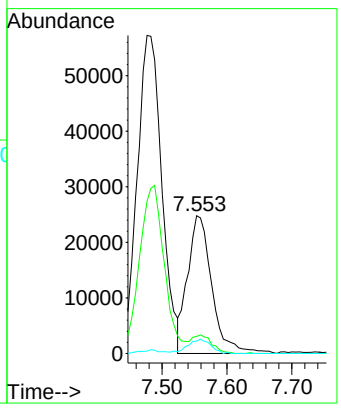
Tgt Ion: 43 Resp: 64447

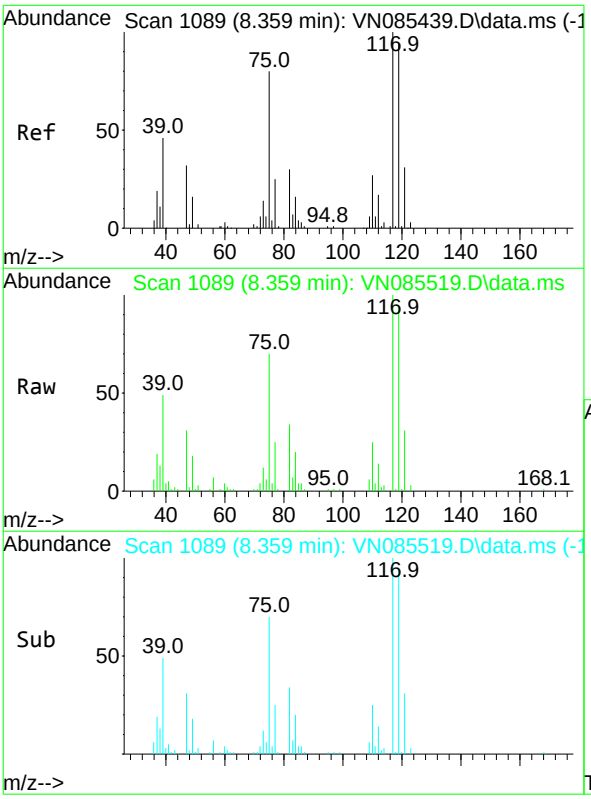
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 10.7 | 10.9 | 16.3# |
| 70 | 9.8 | 7.5 | 11.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

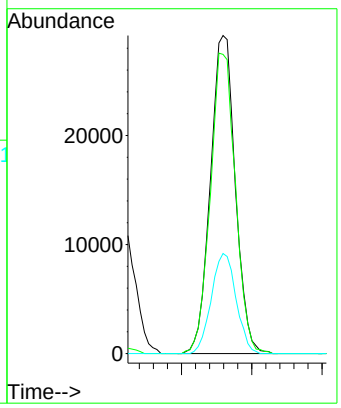


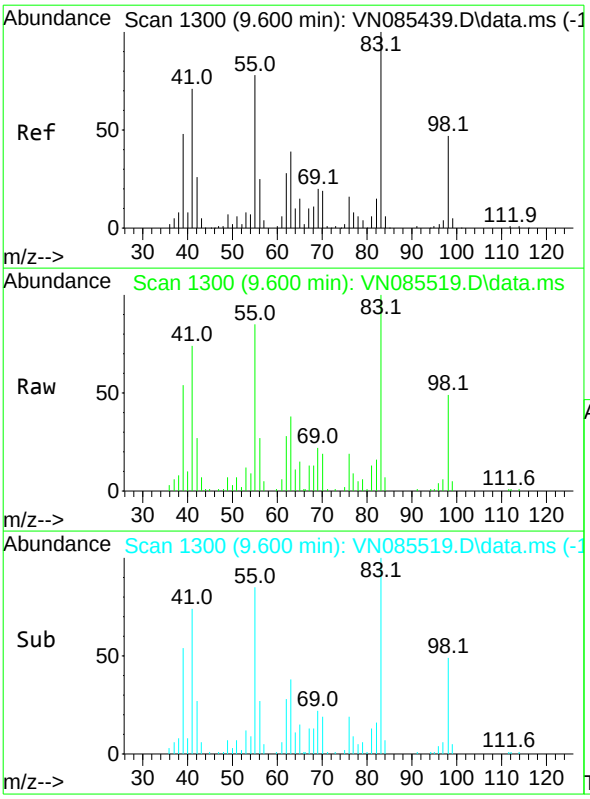




#38
Carbon Tetrachloride
Concen: 18.177 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:117 Resp: 71696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.1 | 75.4 | 113.2 |
| 121 | 31.5 | 24.6 | 37.0 |






#39
Methylcyclohexane
Concen: 17.342 ug/l
RT: 9.600 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

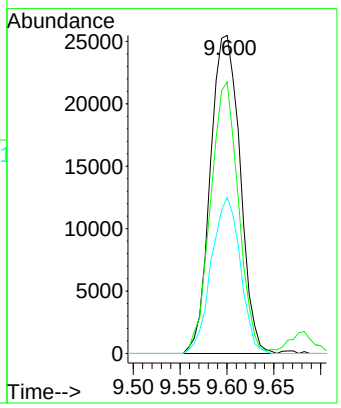
Tgt Ion: 83 Resp: 56147

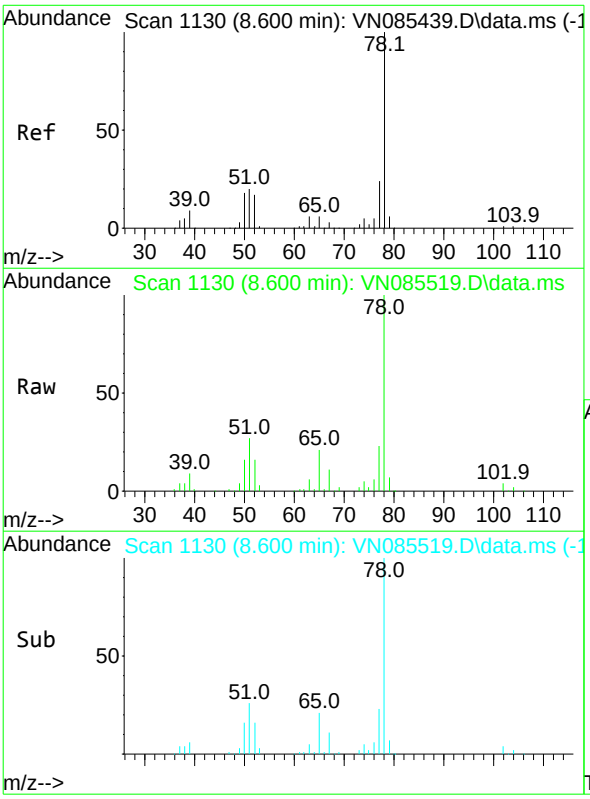
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 85.4 | 62.6 | 94.0 |
| 98 | 49.1 | 37.7 | 56.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

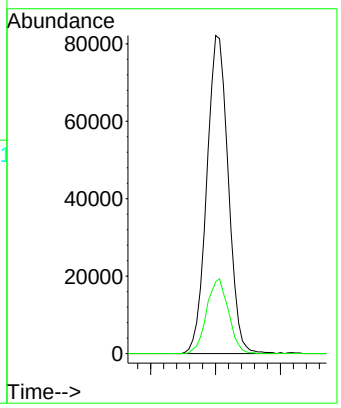


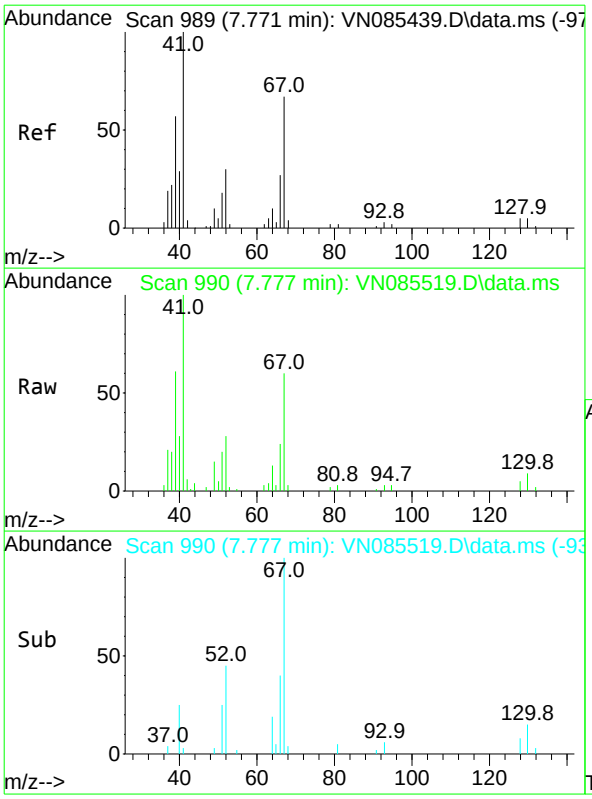




#40
Benzene
Concen: 18.216 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 78 Resp: 188579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.6 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 18.887 ug/l
RT: 7.777 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

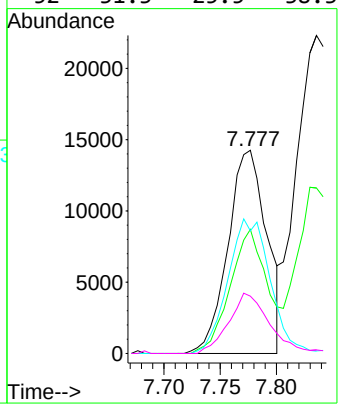
Tgt Ion: 41 Resp: 34171

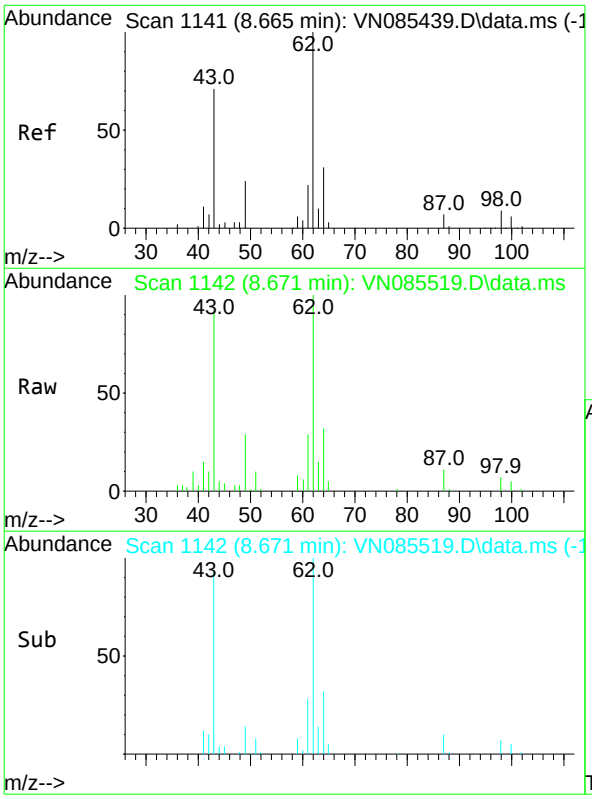
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.3 | 46.0 | 69.0 |
| 67 | 72.5 | 57.4 | 86.2 |
| 52 | 31.3 | 25.5 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

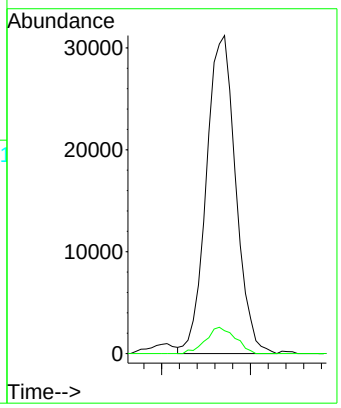


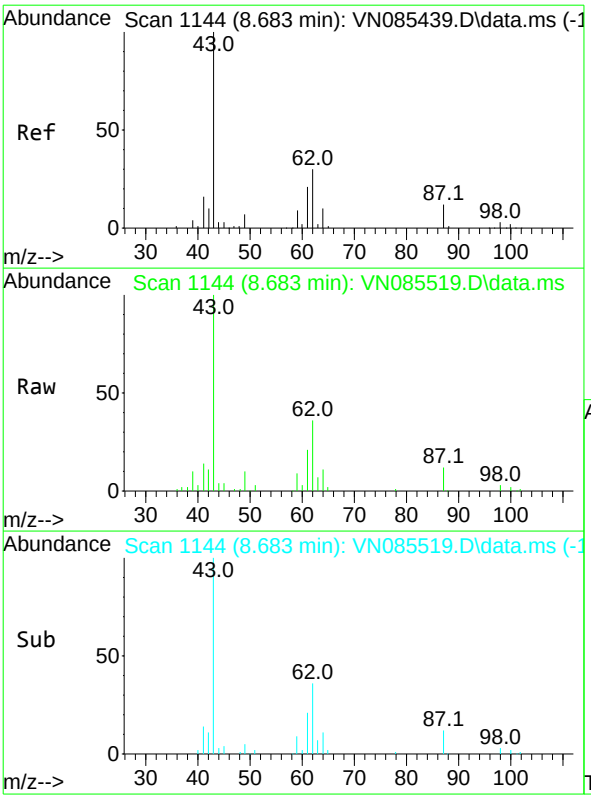




#42
1,2-Dichloroethane
Concen: 18.390 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 62 Resp: 71703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.3 | 0.0 | 17.0 |






#43
Isopropyl Acetate
Concen: 18.880 ug/l
RT: 8.683 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

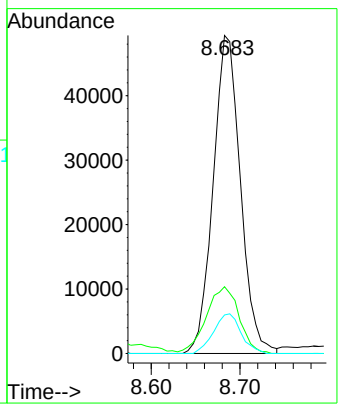
Tgt Ion: 43 Resp: 105207

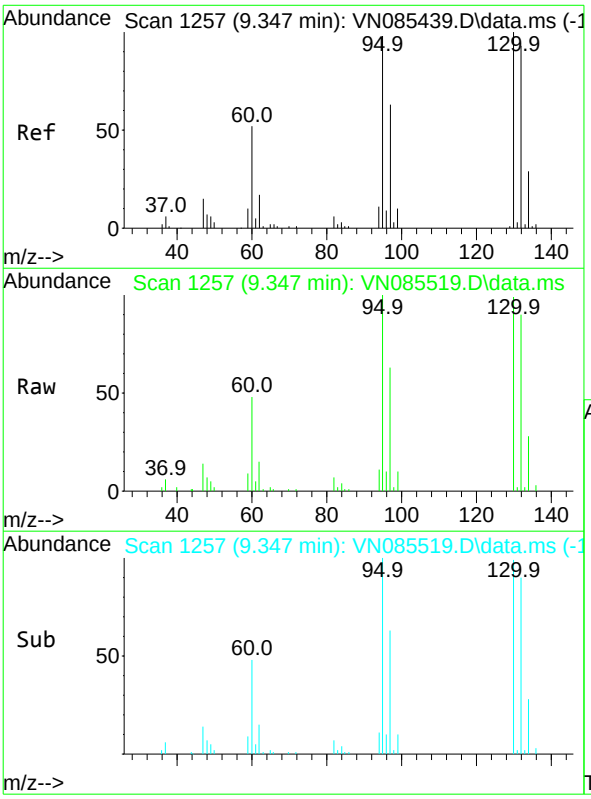
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 25.2 | 20.7 | 31.1 |
| 87 | 12.6 | 9.8 | 14.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

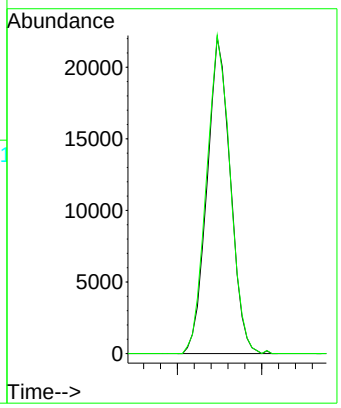


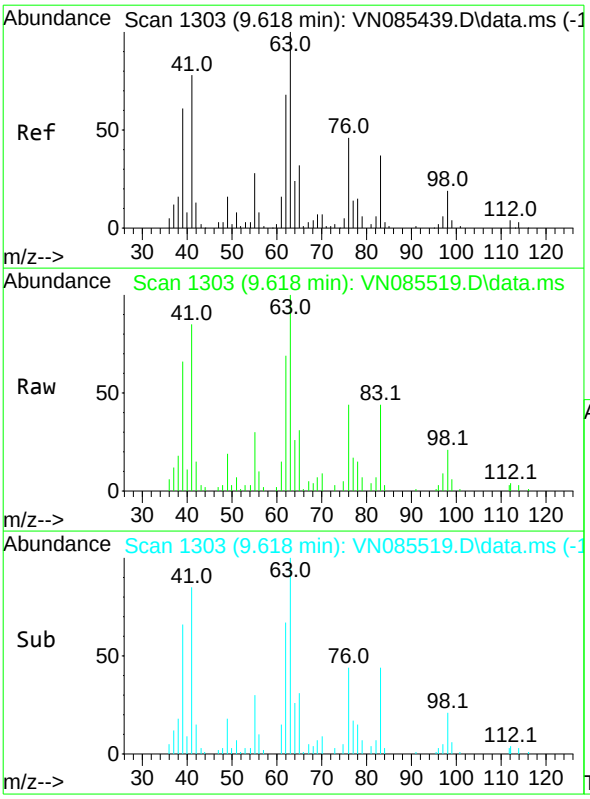




#44
Trichloroethene
Concen: 17.653 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:130 Resp: 42540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.6 | 0.0 | 195.8 |






#45
1,2-Dichloropropane
Concen: 18.105 ug/l
RT: 9.618 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

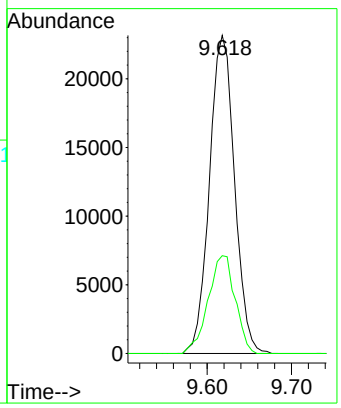
Tgt Ion: 63 Resp: 47873

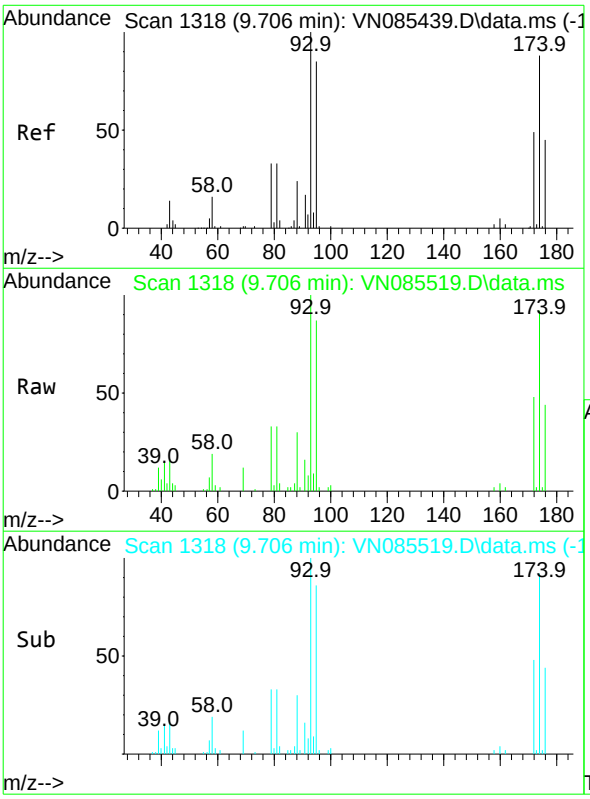
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.7 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

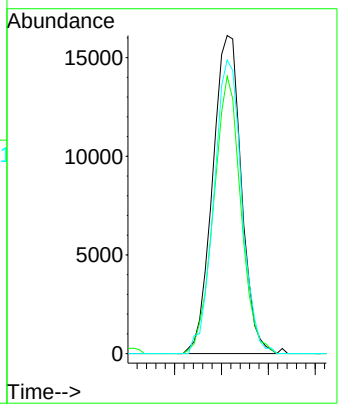


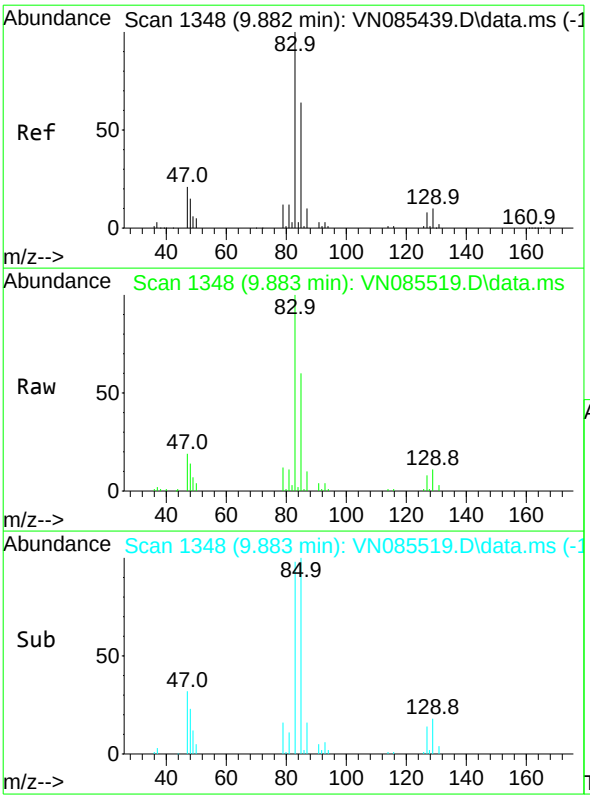




#46
Dibromomethane
Concen: 18.011 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 93 Resp: 34364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.3 | 64.7 | 97.1 |
| 174 | 89.0 | 69.0 | 103.4 |






#47
Bromodichloromethane
Concen: 18.999 ug/l
RT: 9.883 min Scan# 13
Delta R.T. 0.001 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

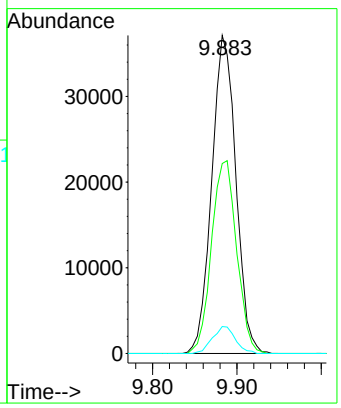
Tgt Ion: 83 Resp: 73853

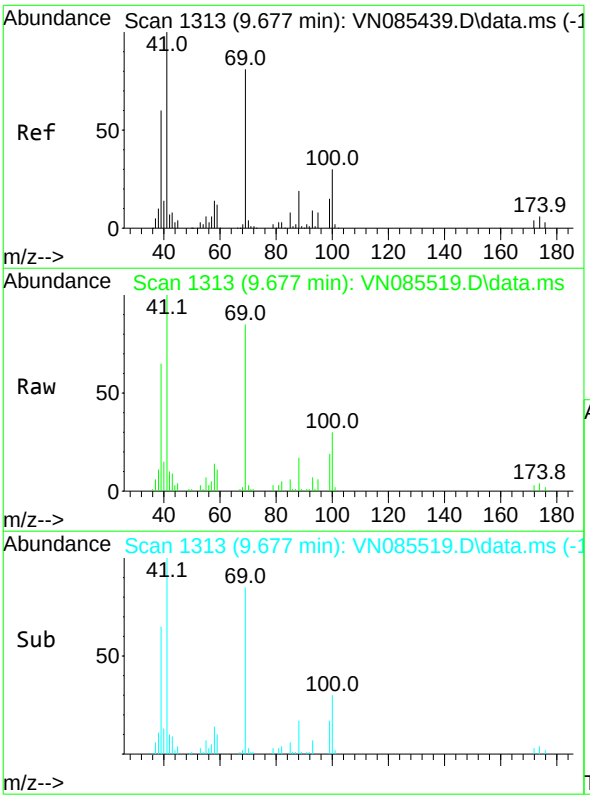
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 59.7 | 51.2 | 76.8 |
| 127 | 8.5 | 6.5 | 9.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

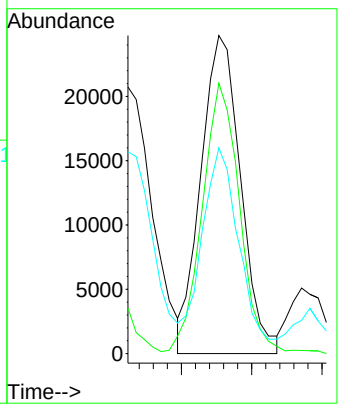


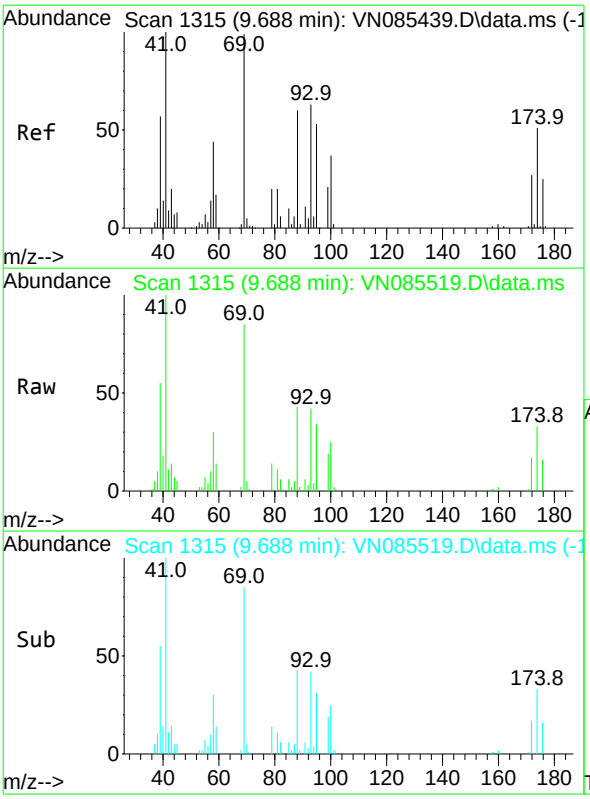




#48
Methyl methacrylate
Concen: 19.364 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 41 Resp: 48560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 80.5 | 64.7 | 97.1 |
| 39 | 61.7 | 49.0 | 73.6 |






#49
1,4-Dioxane
Concen: 382.887 ug/l
RT: 9.688 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

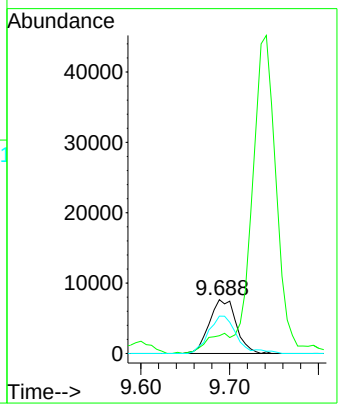
Tgt Ion: 88 Resp: 16169

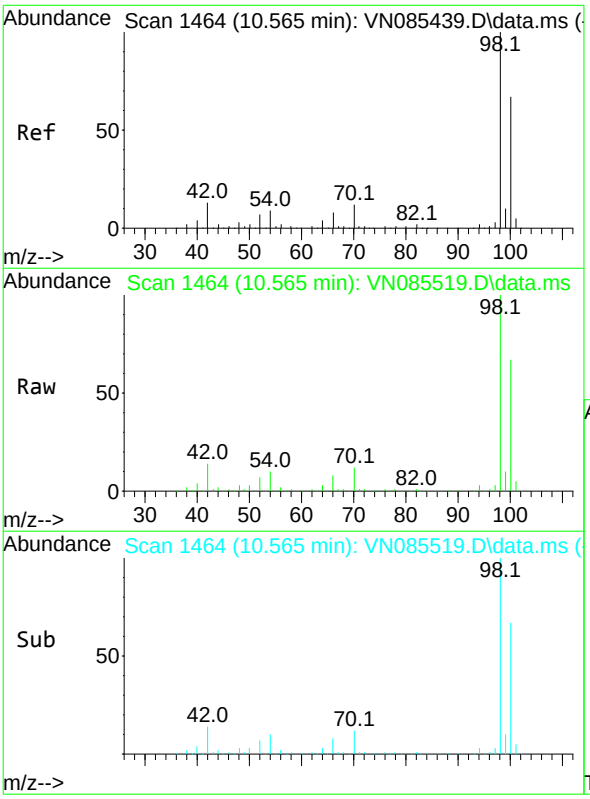
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 26.6 | 39.8# |
| 58 | 72.4 | 59.5 | 89.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

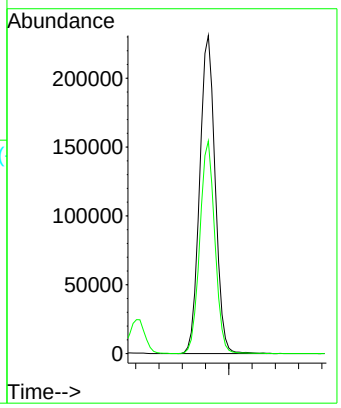


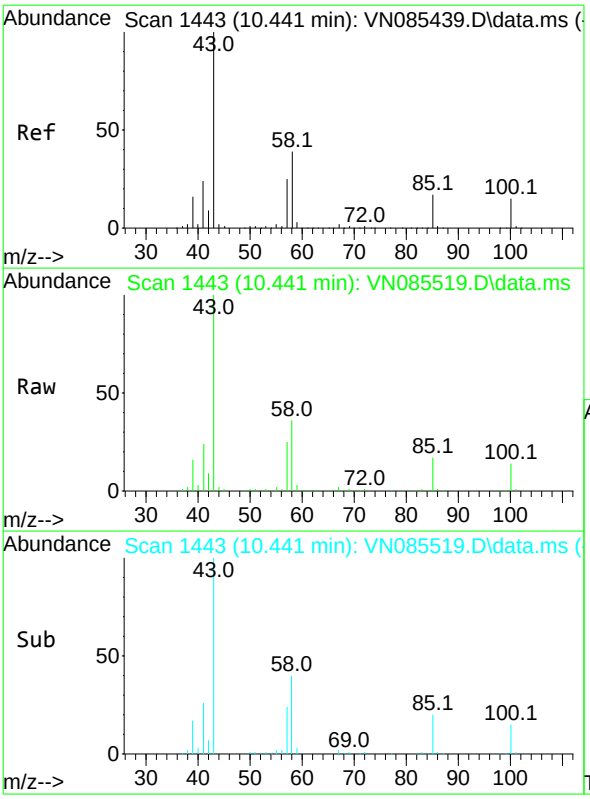




#50
Toluene-d8
Concen: 48.883 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 98 Resp: 426365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.2 | 78.4 |






#51
4-Methyl-2-Pentanone
Concen: 98.995 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

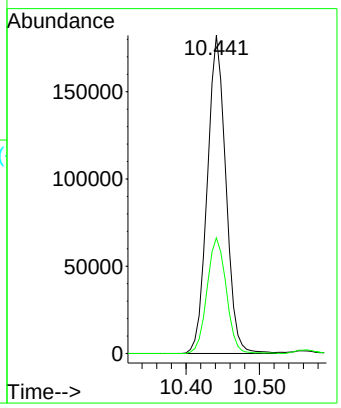
Tgt Ion: 43 Resp: 320107

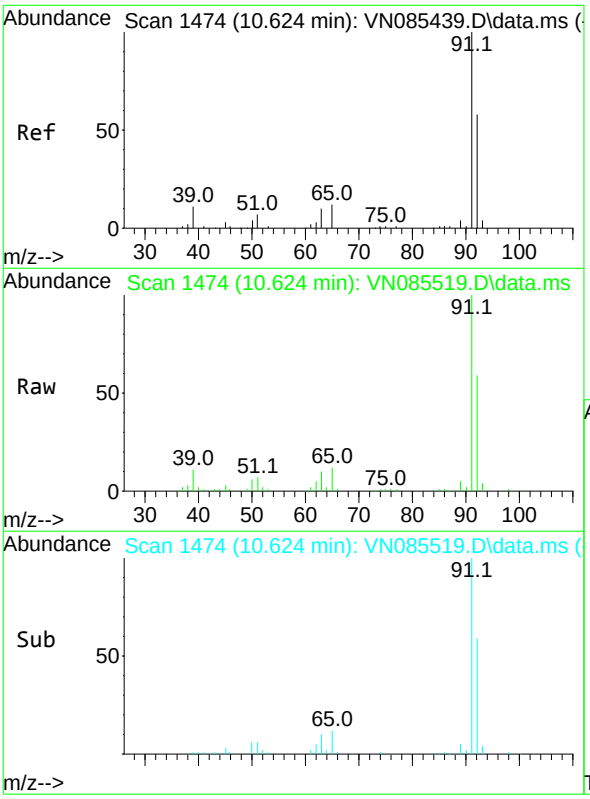
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.6 | 30.5 | 45.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

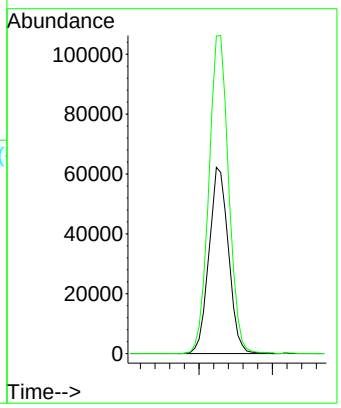


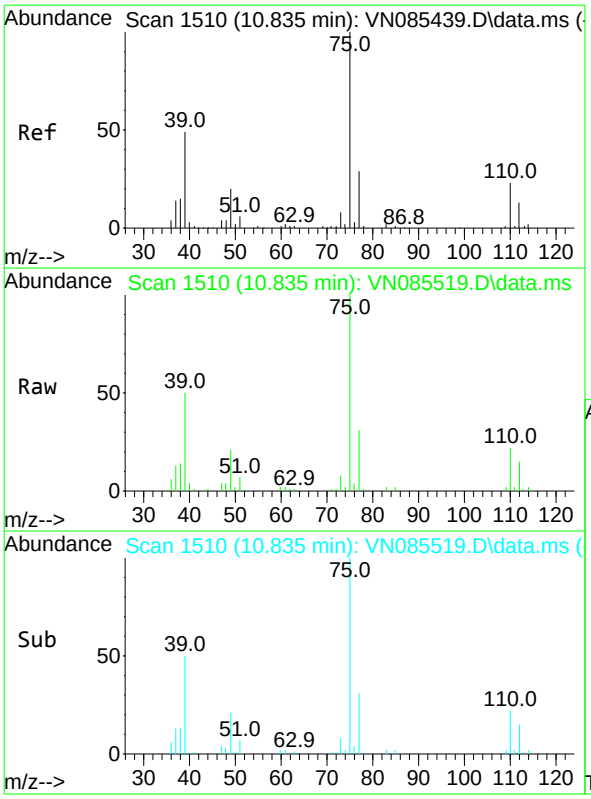




#52
Toluene
Concen: 19.126 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 92 Resp: 114724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.7 | 139.2 | 208.8 |






#53
t-1,3-Dichloropropene
Concen: 18.686 ug/l
RT: 10.835 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 75 Resp: 68643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.5 | 23.5 | 35.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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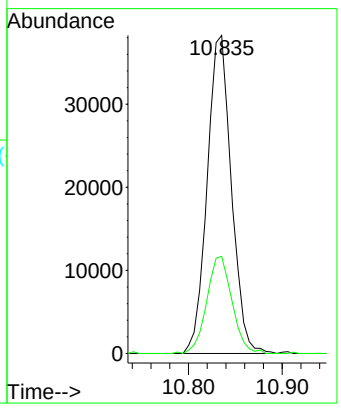
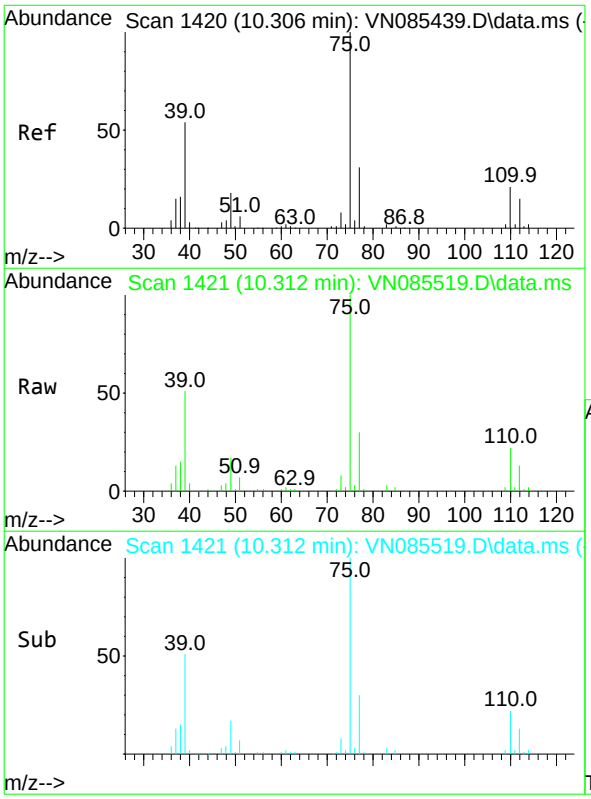
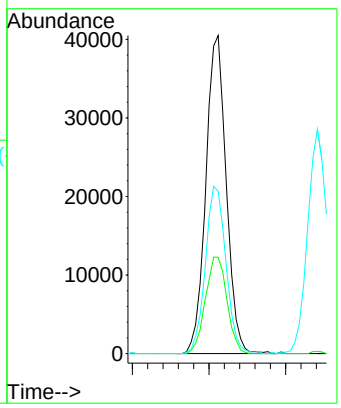


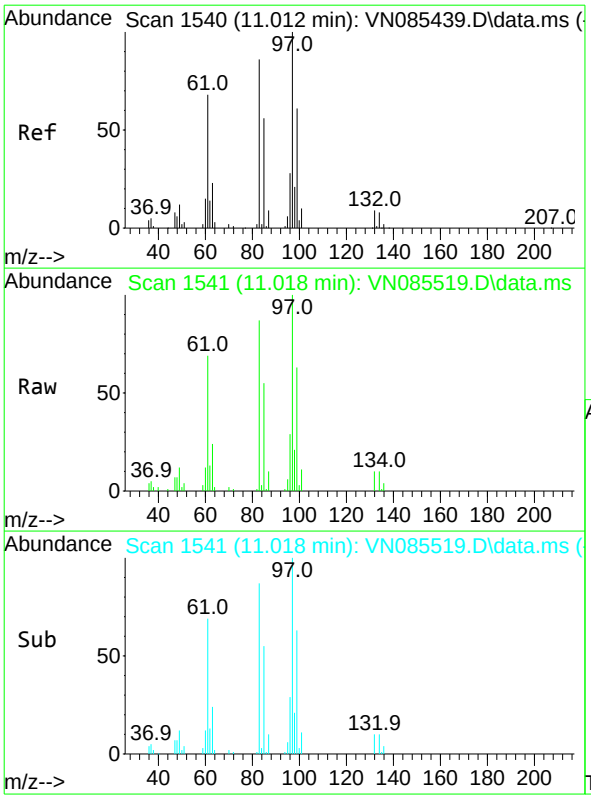




#54
cis-1,3-Dichloropropene
Concen: 19.072 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 75 Resp: 74838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.3 | 25.0 | 37.4 |
| 39 | 51.0 | 43.1 | 64.7 |






#55
1,1,2-Trichloroethane
Concen: 18.755 ug/l
RT: 11.018 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

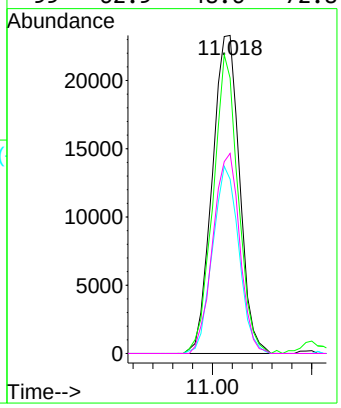
**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

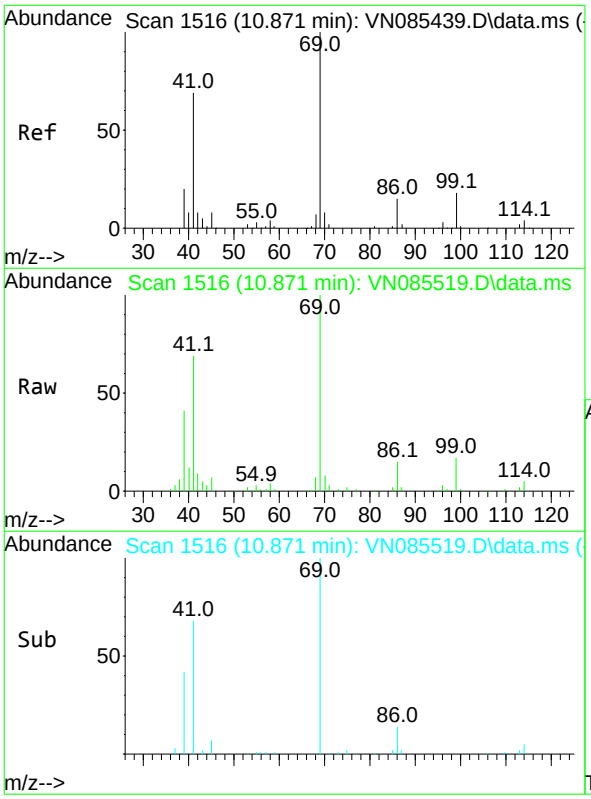
Tgt Ion: 97 Resp: 44521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.6 | 69.0 | 103.6 |
| 85 | 54.8 | 44.6 | 66.8 |
| 99 | 62.9 | 48.6 | 72.8 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

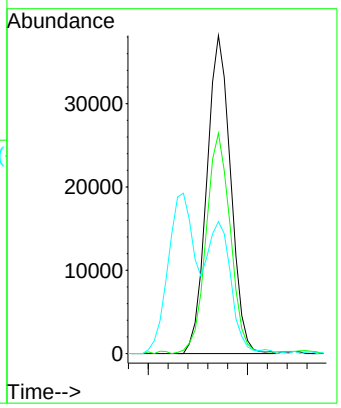


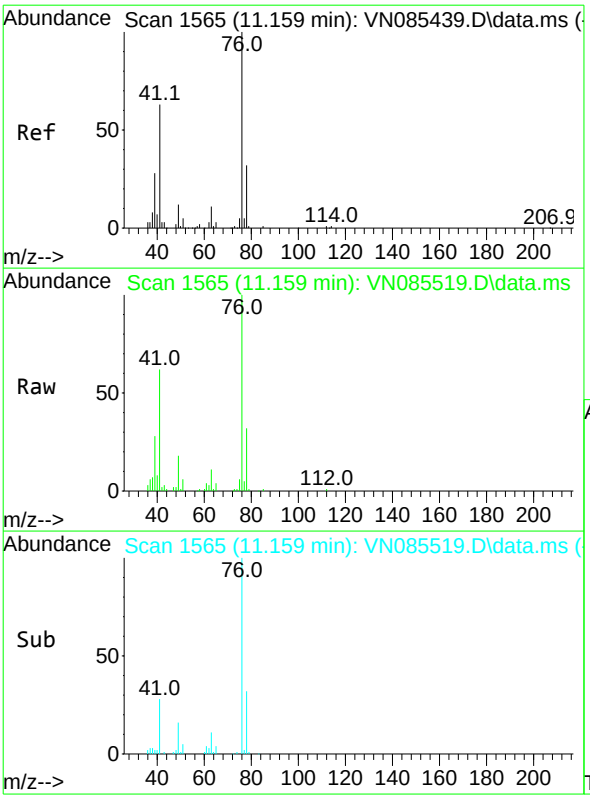




#56
Ethyl methacrylate
Concen: 17.301 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 69 Resp: 63931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 70.3 | 54.6 | 82.0 |
| 39 | 41.3 | 32.4 | 48.6 |






#57
1,3-Dichloropropane
Concen: 18.909 ug/l
RT: 11.159 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 76 Resp: 78049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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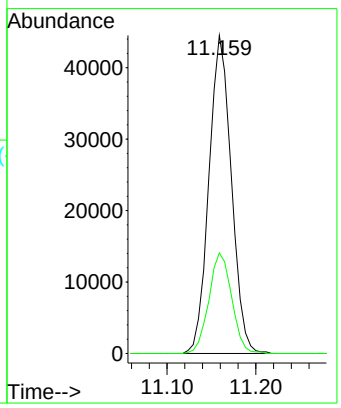
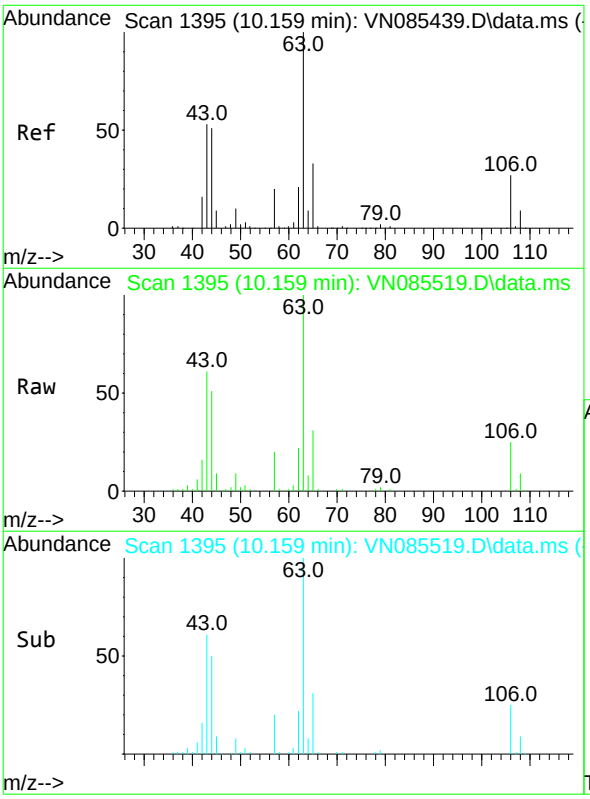
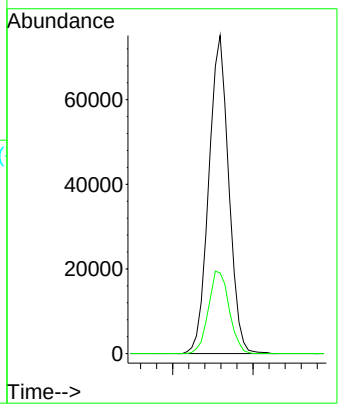


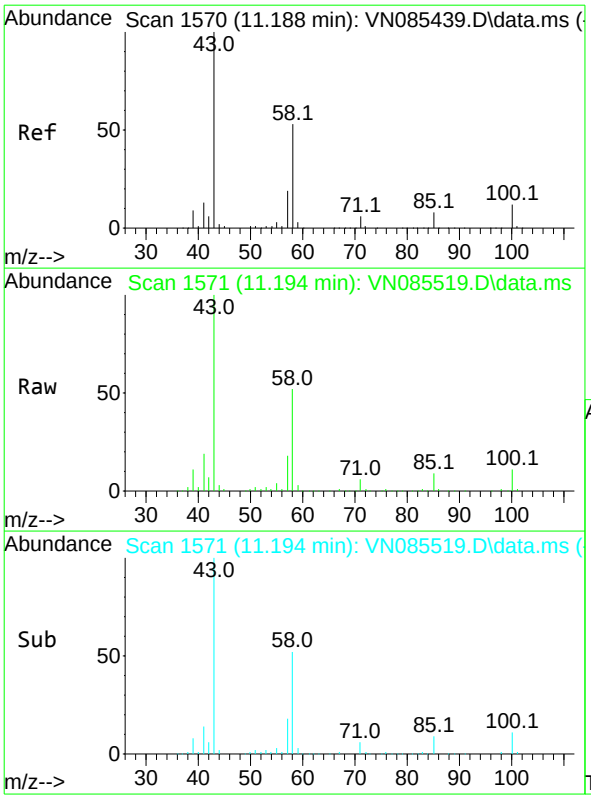




#58
2-Chloroethyl Vinyl ether
Concen: 86.050 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 63 Resp: 129626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.0 | 21.6 | 32.4 |






#59
2-Hexanone
Concen: 100.658 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 43 Resp: 229022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 52.2 | 26.2 | 78.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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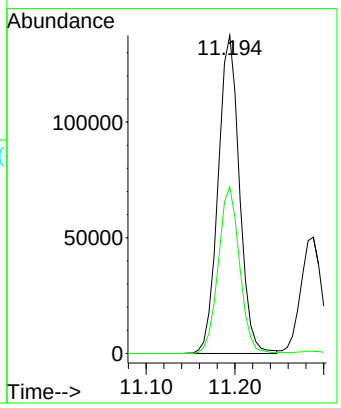
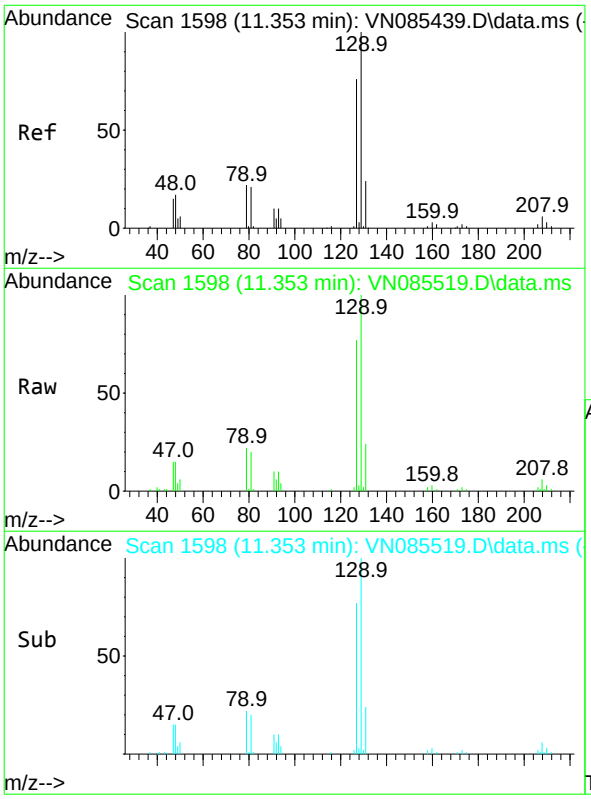
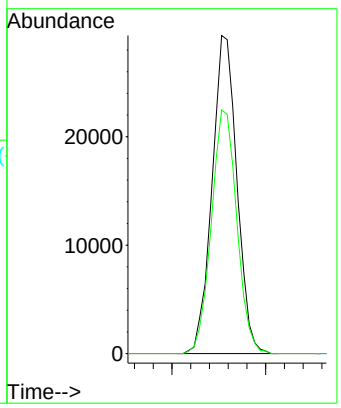


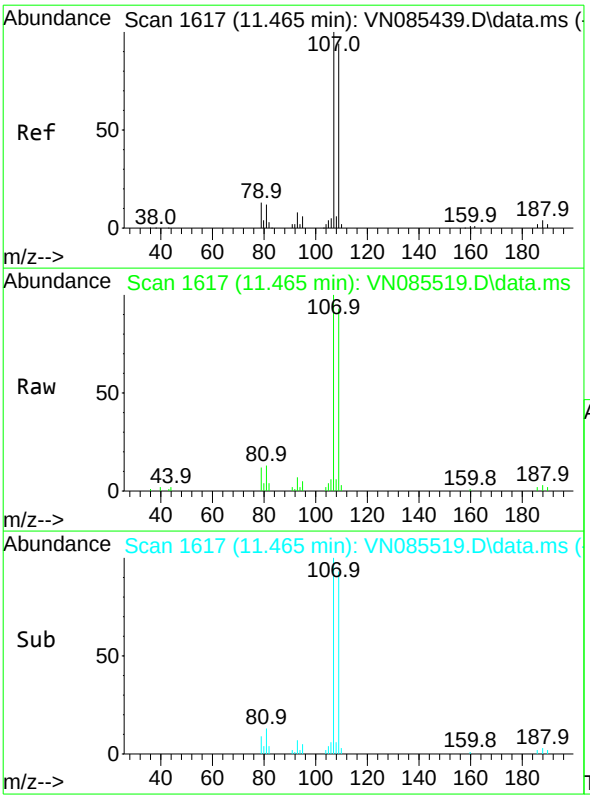




#60
Dibromochloromethane
Concen: 18.841 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:129 Resp: 53997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.4 | 38.6 | 115.8 |






#61
1,2-Dibromoethane
Concen: 18.569 ug/l
RT: 11.465 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:107 Resp: 43876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.6 | 75.9 | 113.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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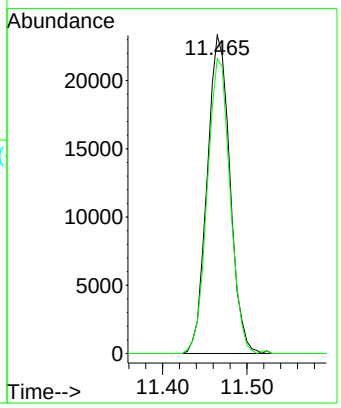
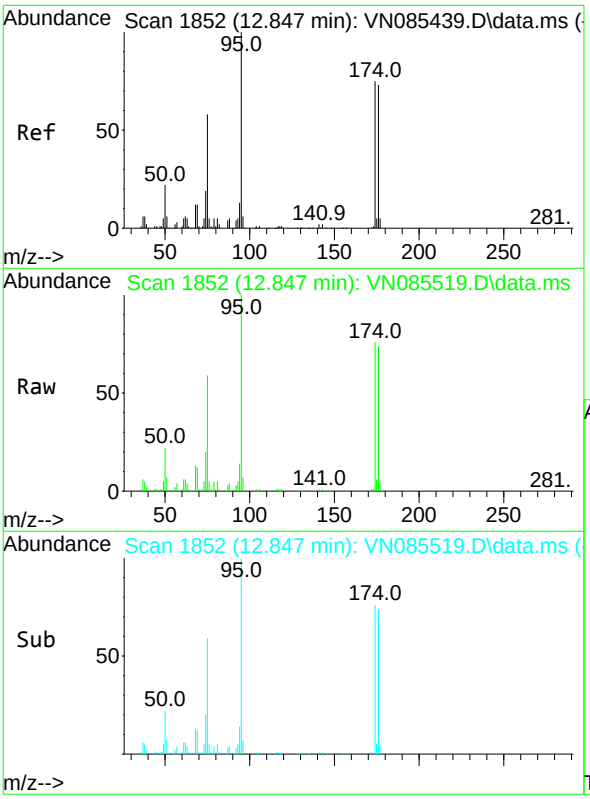
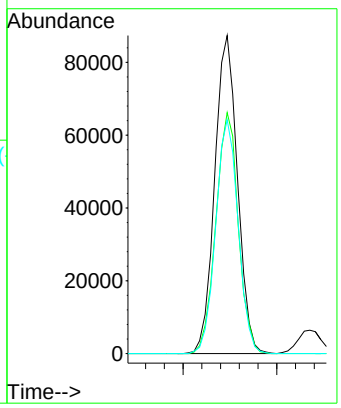


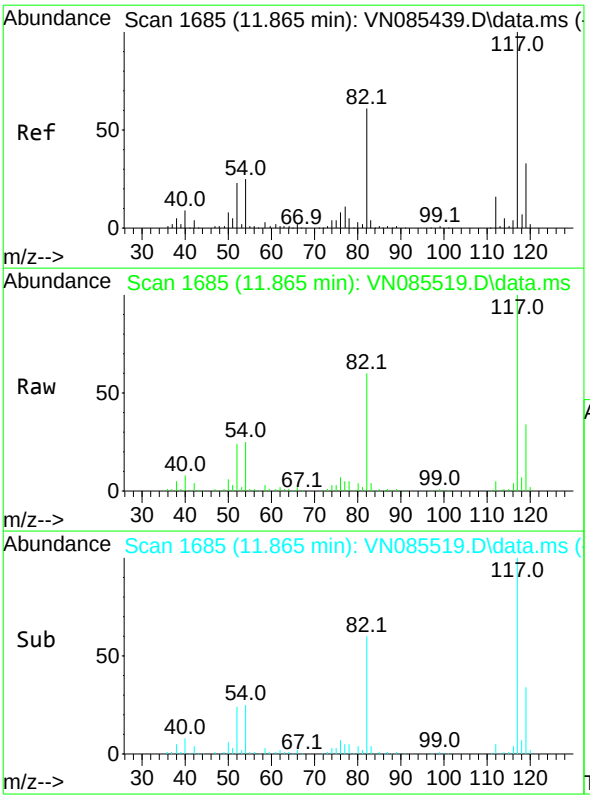




#62
4-Bromofluorobenzene
Concen: 49.362 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 95 Resp: 147277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 74.6 | 0.0 | 145.0 |
| 176 | 72.4 | 0.0 | 142.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:117 Resp: 309822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 60.5 | 48.6 | 72.8 |
| 119 | 33.6 | 26.6 | 39.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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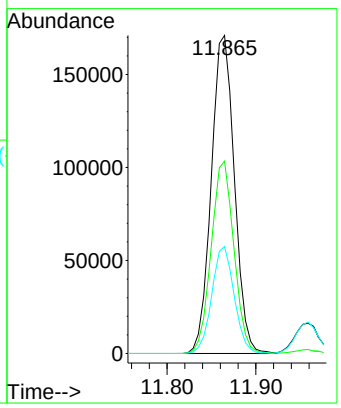
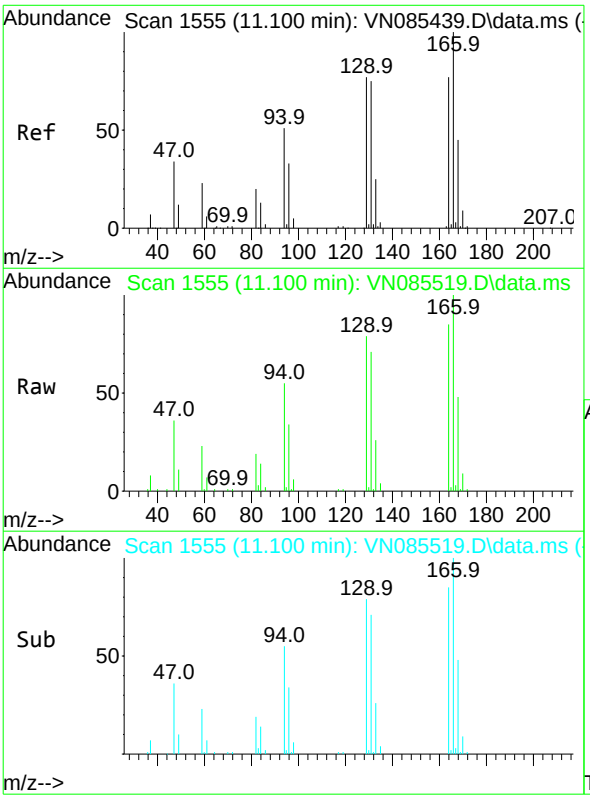
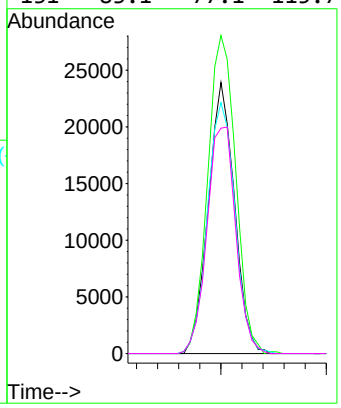


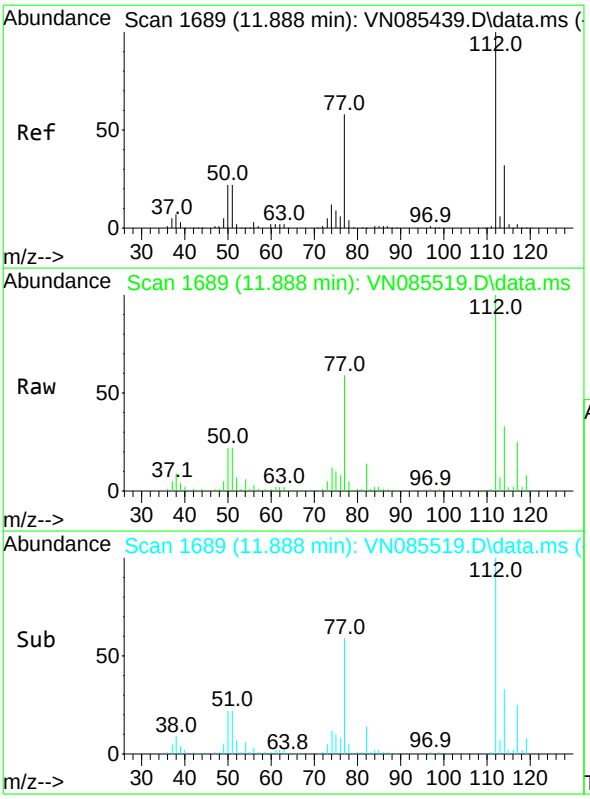




#64
Tetrachloroethene
Concen: 19.589 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:164 Resp: 41376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 117.3 | 103.4 | 155.2 |
| 129 | 92.5 | 79.2 | 118.8 |
| 131 | 83.1 | 77.1 | 115.7 |






#65
Chlorobenzene
Concen: 18.327 ug/l
RT: 11.888 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

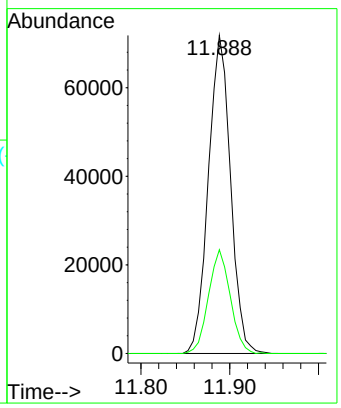
Tgt Ion:112 Resp: 124390

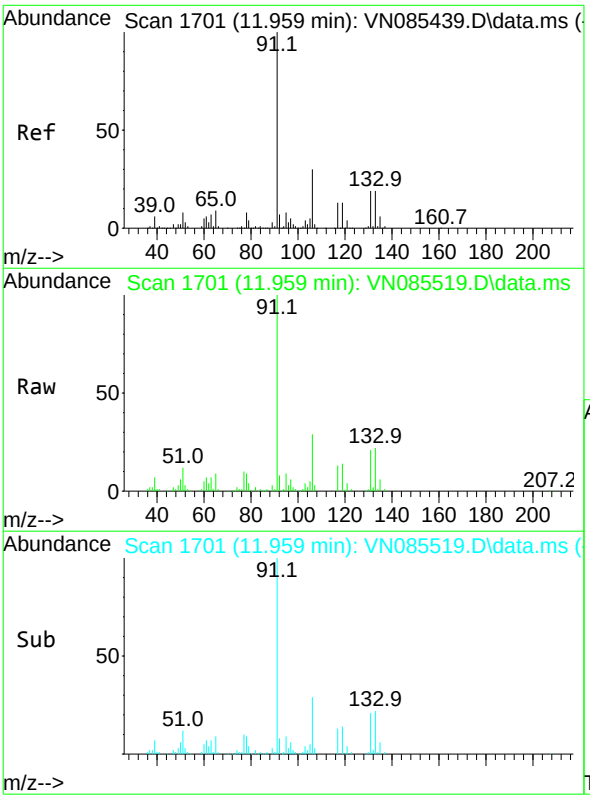
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.6 | 25.3 | 37.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

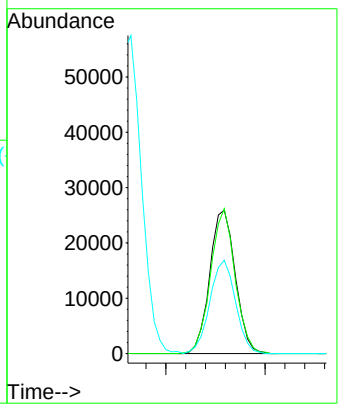


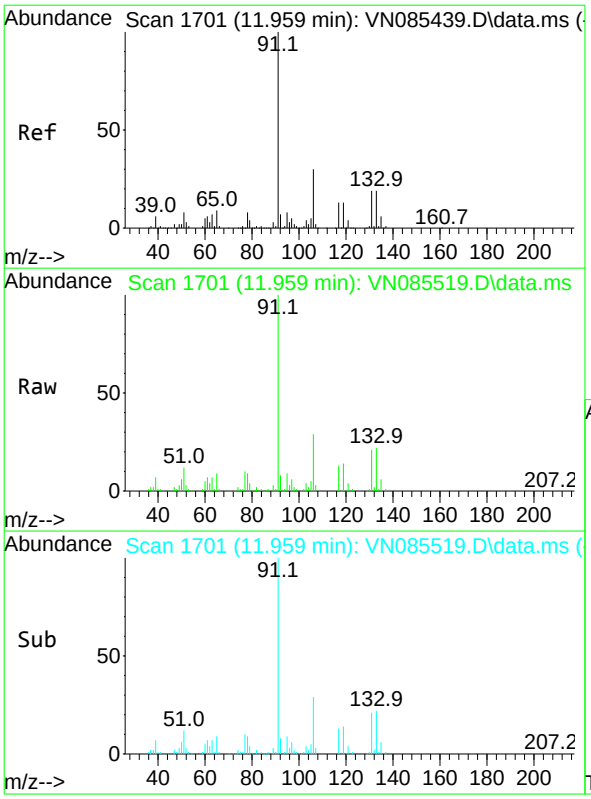




#66
1,1,1,2-Tetrachloroethane
Concen: 18.625 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:131 Resp: 46396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.9 | 47.4 | 142.3 |
| 119 | 65.4 | 33.1 | 99.5 |






#67
Ethyl Benzene
Concen: 18.706 ug/l
RT: 11.959 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 91 Resp: 206785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.1 | 23.8 | 35.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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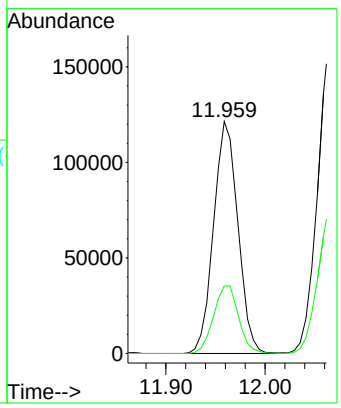
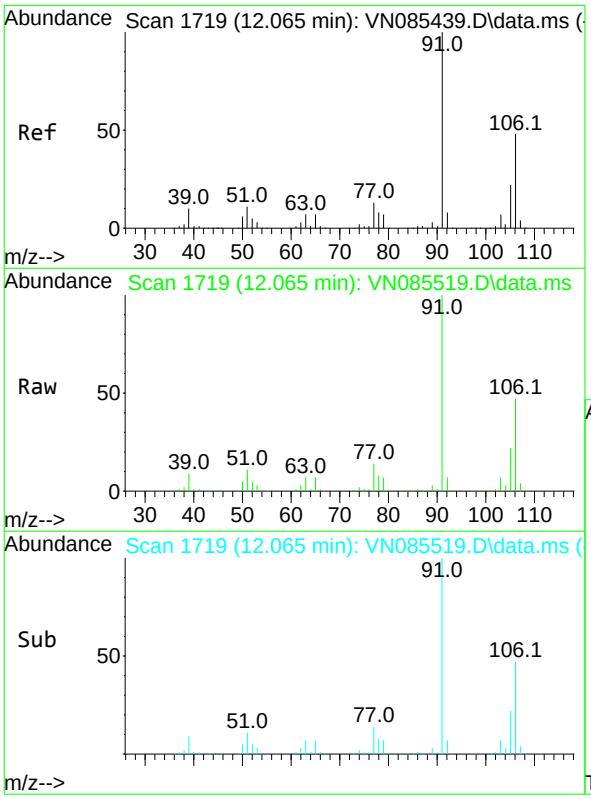
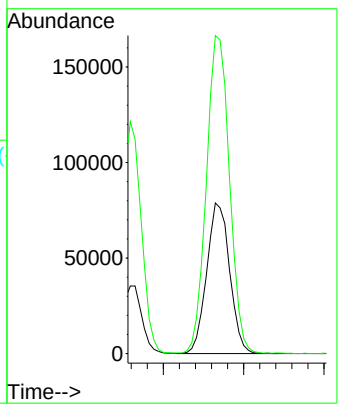


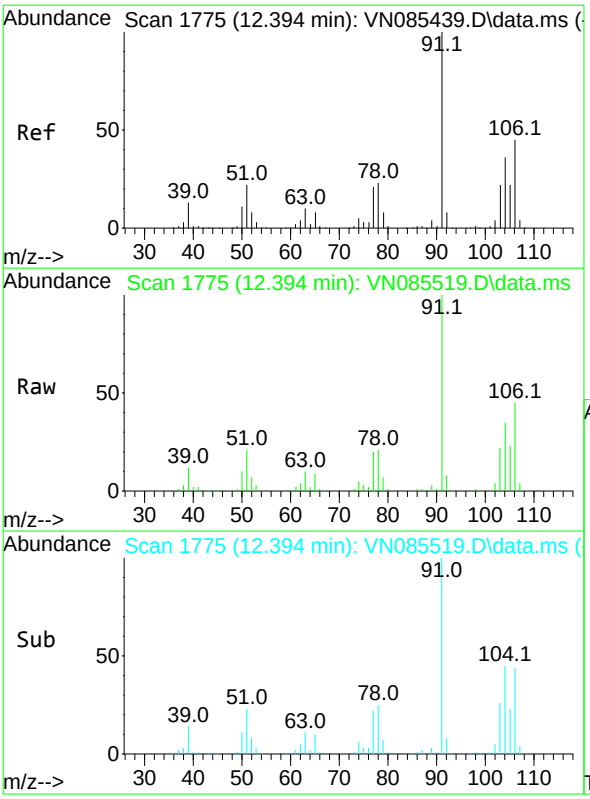




#68
m/p-Xylenes
Concen: 38.260 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:106 Resp: 156314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 211.9 | 167.7 | 251.5 |






#69
o-Xylene
Concen: 19.084 ug/l
RT: 12.394 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:106 Resp: 74513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.9 | 110.4 | 331.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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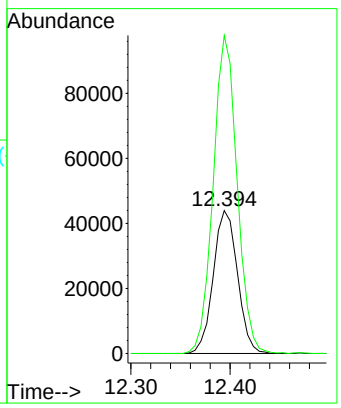
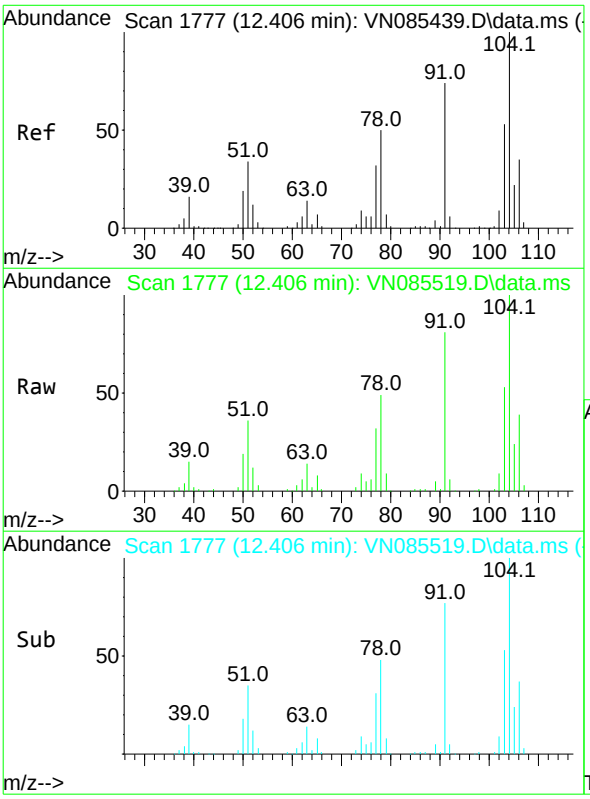
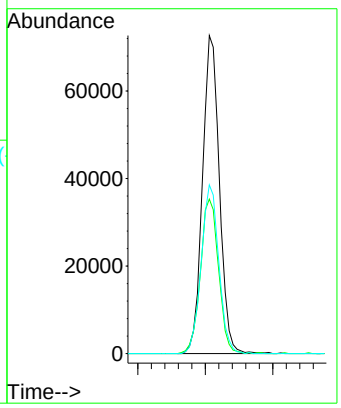


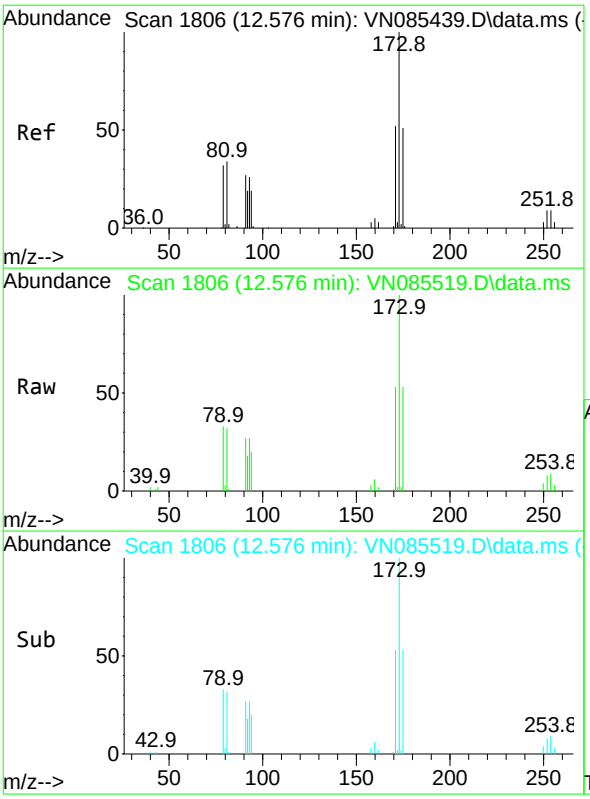




#70
Styrene
Concen: 19.615 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:104 Resp: 126745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.7 | 42.5 | 63.7 |
| 103 | 55.1 | 43.8 | 65.8 |






#71
Bromoform
Concen: 19.602 ug/l
RT: 12.576 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:173 Resp: 34938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.6 | 24.4 | 73.2 |
| 254 | 0.0 | 0.0 | 0.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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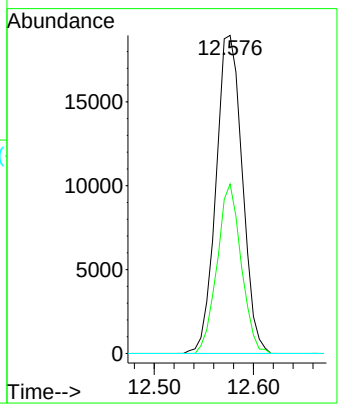
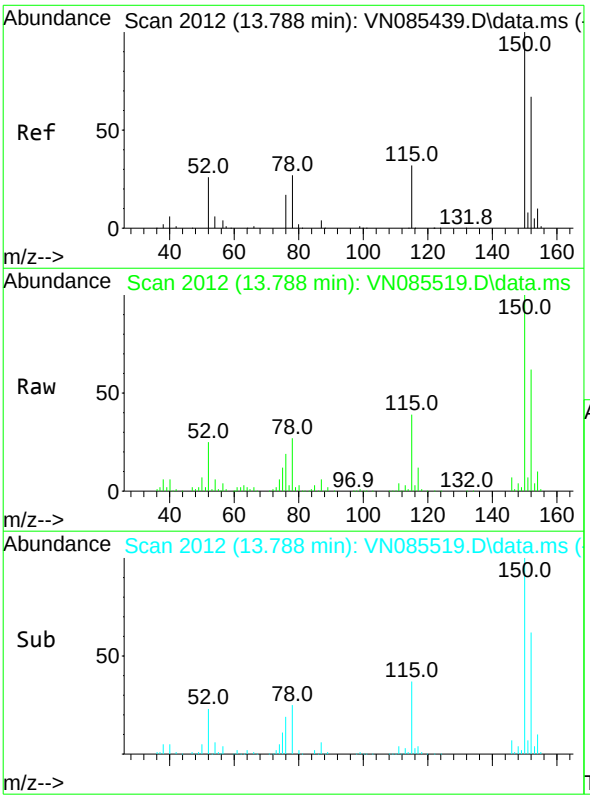
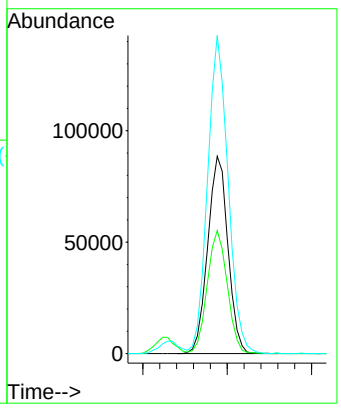


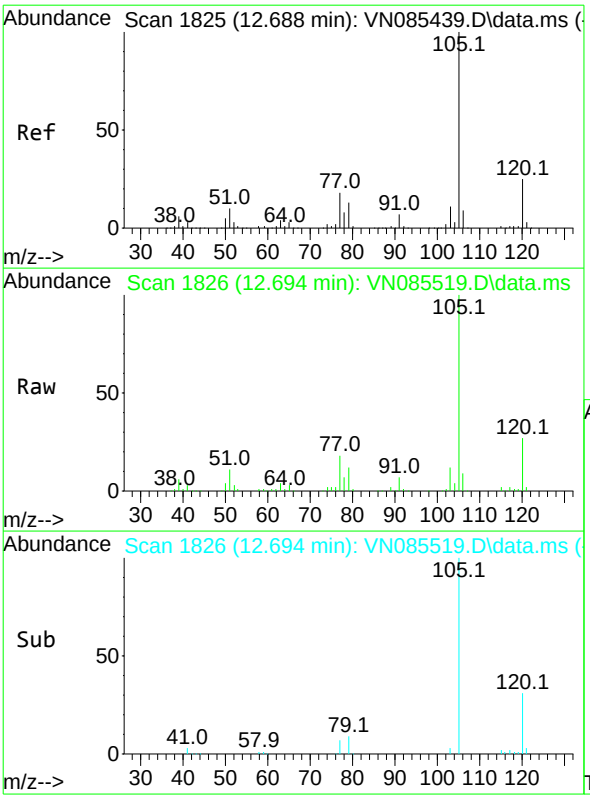




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:152 Resp: 147310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.7 | 31.1 | 93.3 |
| 150 | 163.3 | 0.0 | 343.6 |






#73
Isopropylbenzene
Concen: 19.153 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:105 Resp: 190425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.9 | 12.8 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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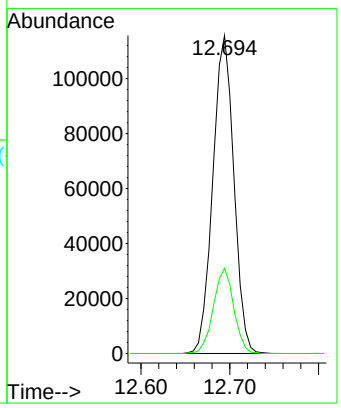
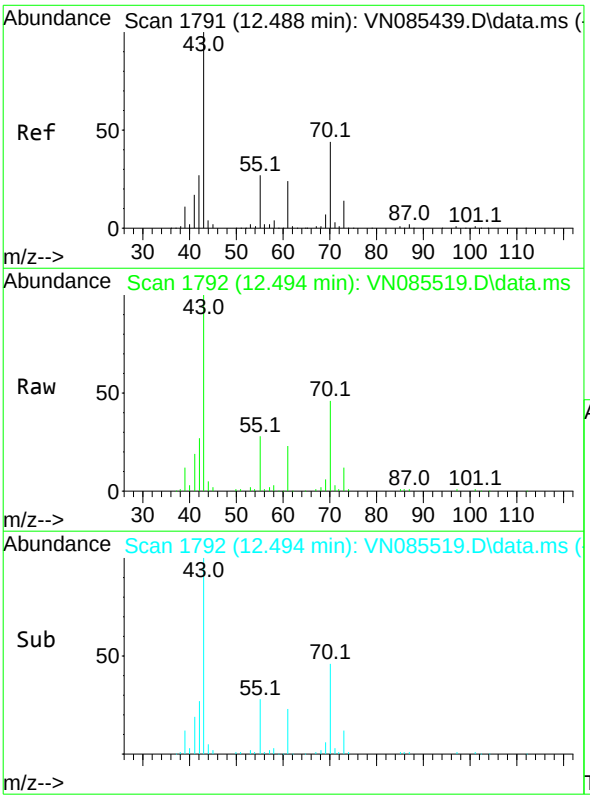
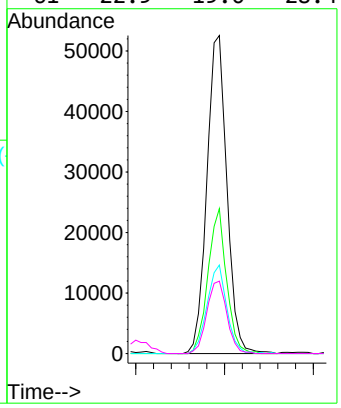


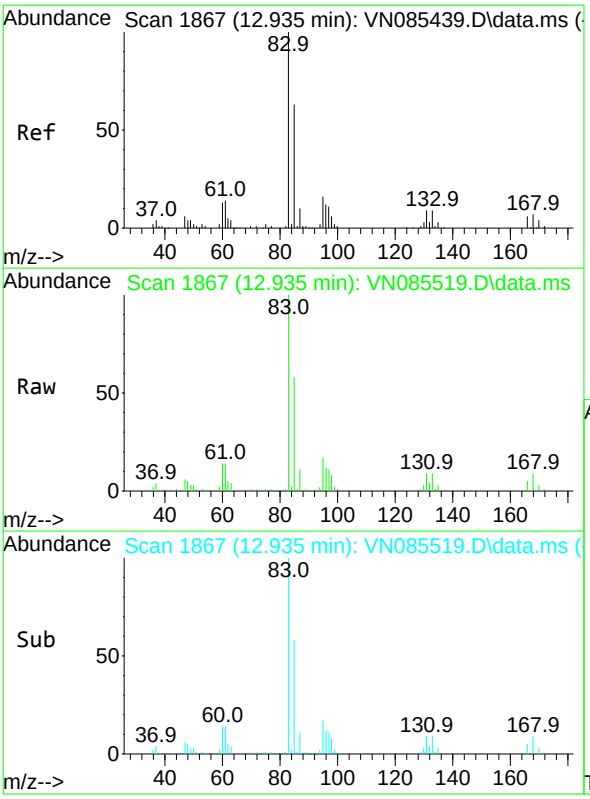




#74
N-amyl acetate
Concen: 18.396 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 43 Resp: 82210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.3 | 34.0 | 51.0 |
| 55 | 27.4 | 21.4 | 32.2 |
| 61 | 22.9 | 19.0 | 28.4 |






#75
1,1,2,2-Tetrachloroethane
Concen: 18.515 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 83 Resp: 65024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.8 | 4.8 | 14.4 |
| 85 | 62.8 | 32.2 | 96.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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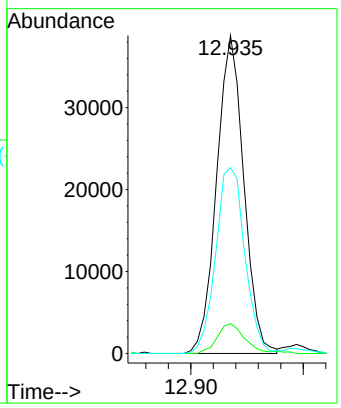
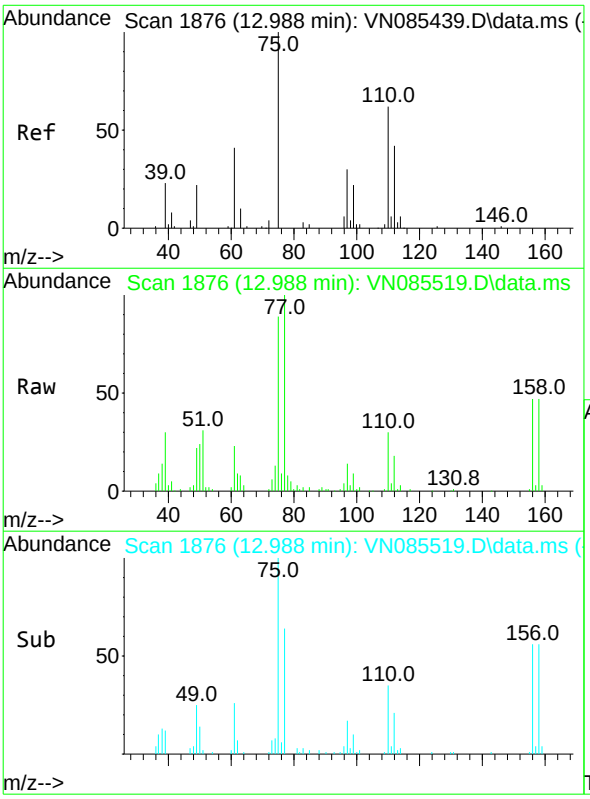
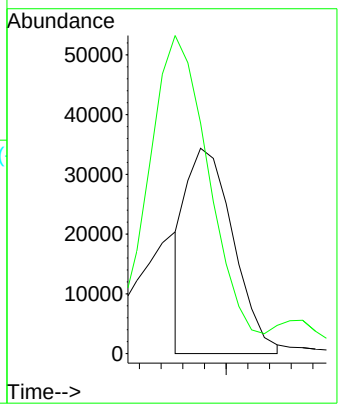


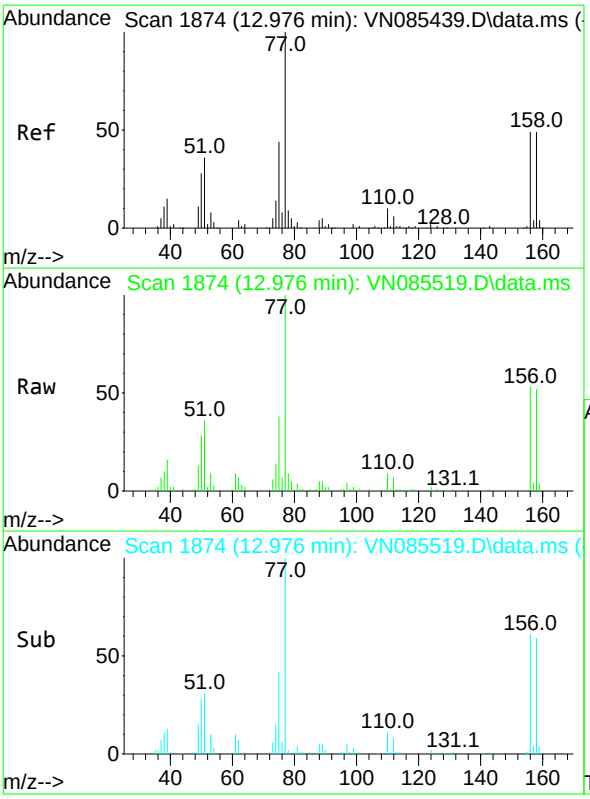




#76
1,2,3-Trichloropropane
Concen: 17.413 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 75 Resp: 52136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 205.5 | 109.7 | 329.2 |






#77
Bromobenzene
Concen: 18.302 ug/l
RT: 12.976 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:156 Resp: 47540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 225.4 | 114.1 | 342.4 |
| 158 | 100.6 | 48.9 | 146.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
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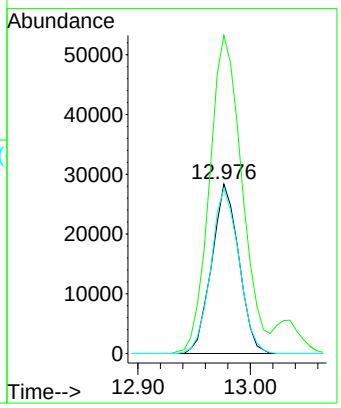
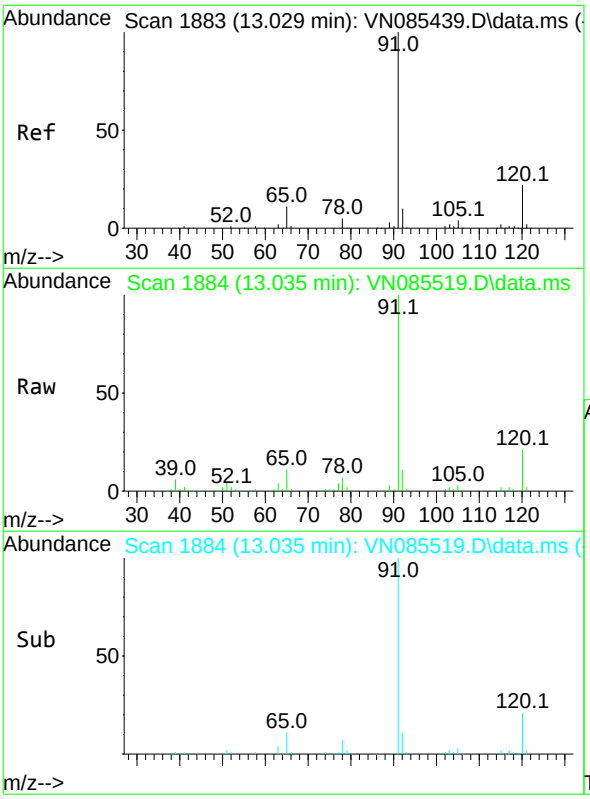
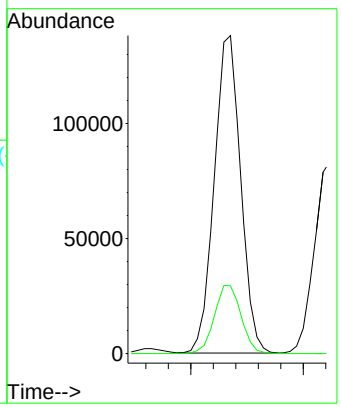


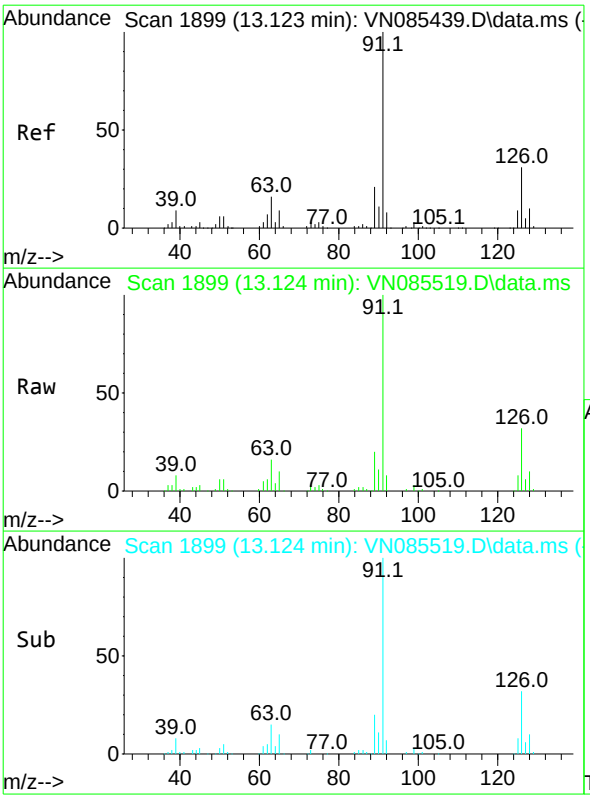




#78
n-propylbenzene
Concen: 19.114 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 91 Resp: 224974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.7 | 10.9 | 32.6 |






#79
2-Chlorotoluene
Concen: 18.733 ug/l
RT: 13.124 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 91 Resp: 142697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.0 | 15.7 | 47.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
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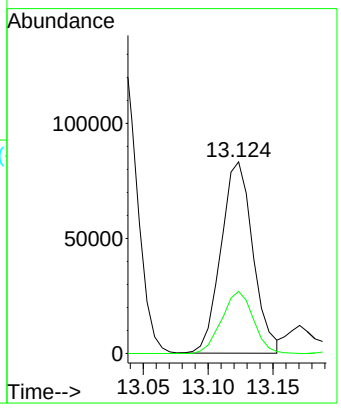
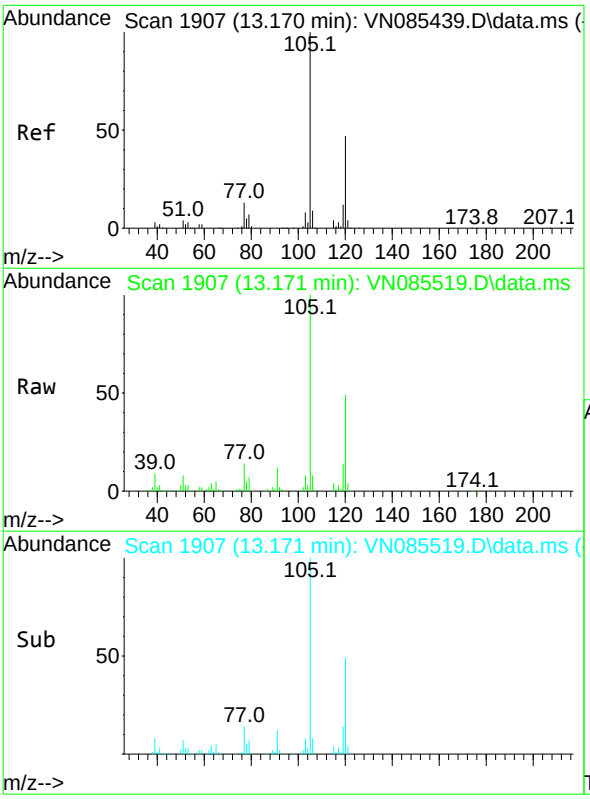
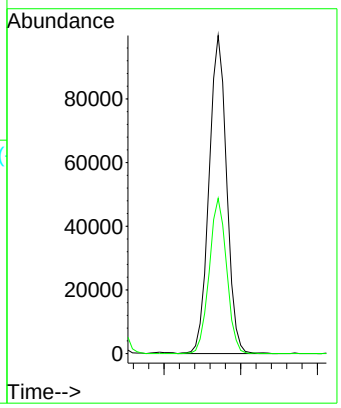


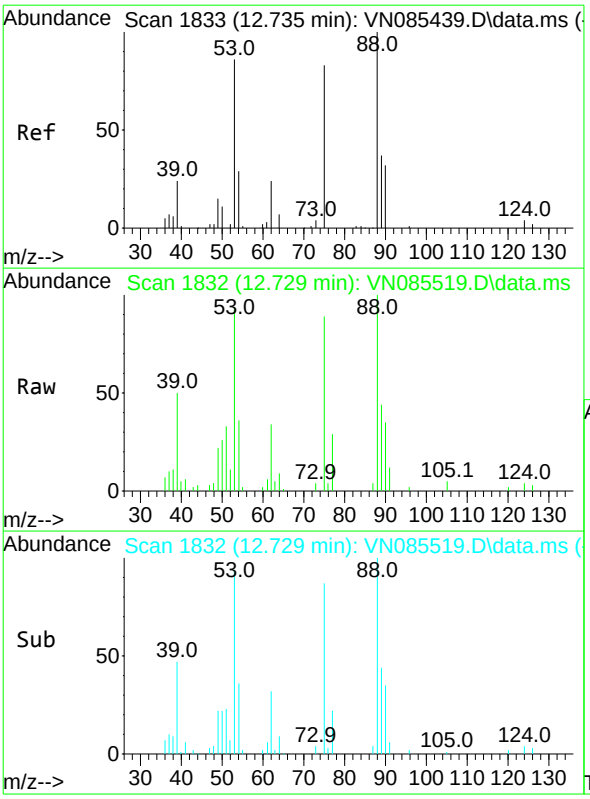




#80
1,3,5-Trimethylbenzene
Concen: 19.367 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:105 Resp: 159046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.2 | 23.9 | 71.7 |






#81
trans-1,4-Dichloro-2-butene
Concen: 19.087 ug/l
RT: 12.729 min Scan# 18
Delta R.T. -0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 75 Resp: 21123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 116.9 | 95.6 | 143.4 |
| 89 | 46.5 | 37.0 | 55.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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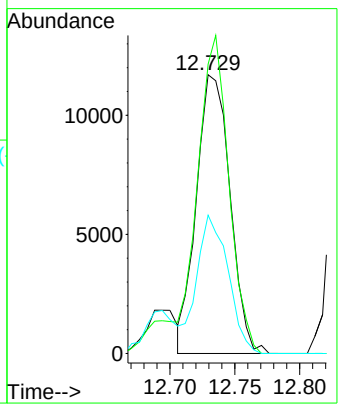
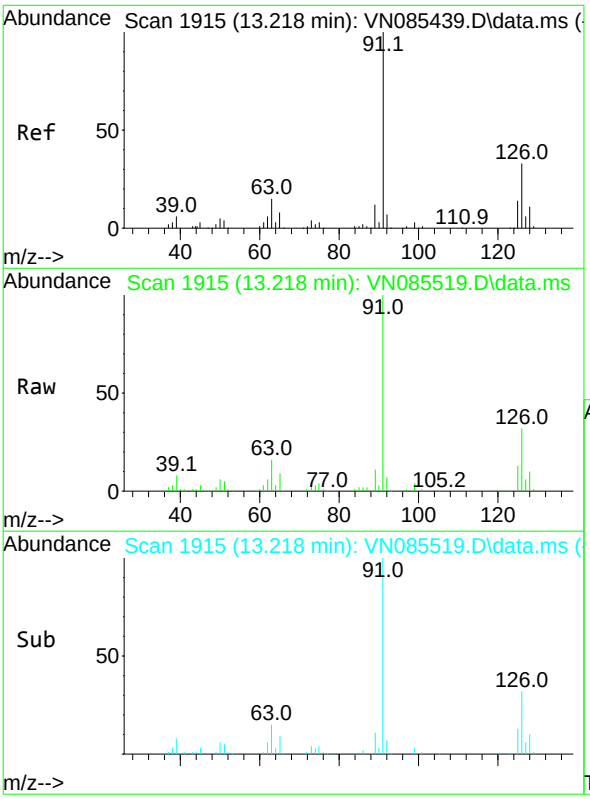
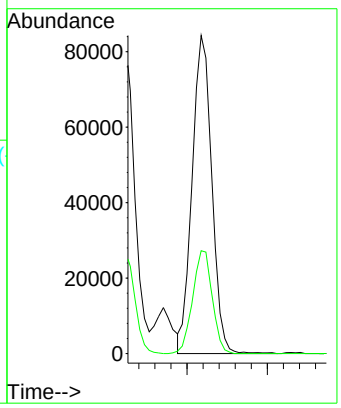


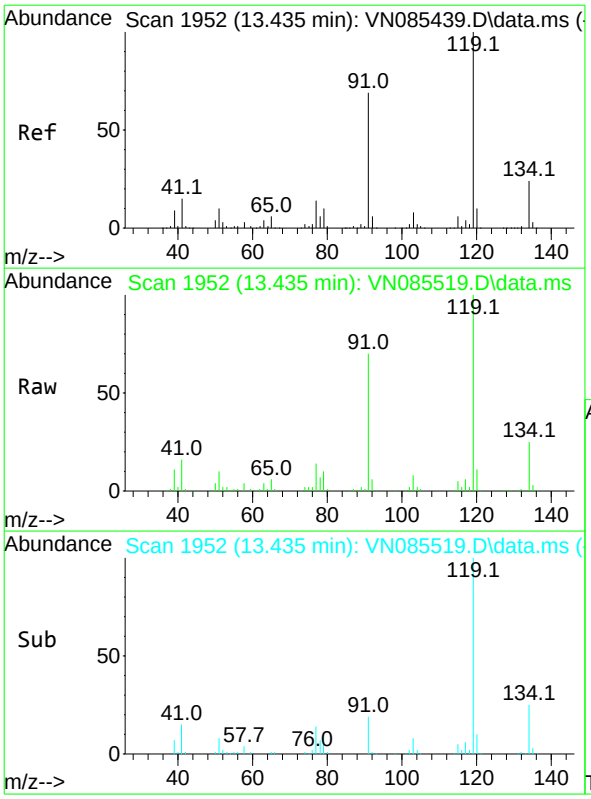




#82
4-Chlorotoluene
Concen: 18.876 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 91 Resp: 143166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.2 | 15.9 | 47.7 |






#83
tert-Butylbenzene
Concen: 18.737 ug/l
RT: 13.435 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

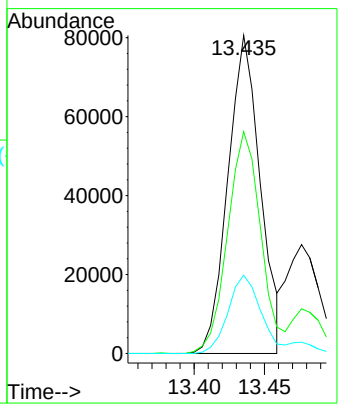
Tgt Ion:119 Resp: 129220

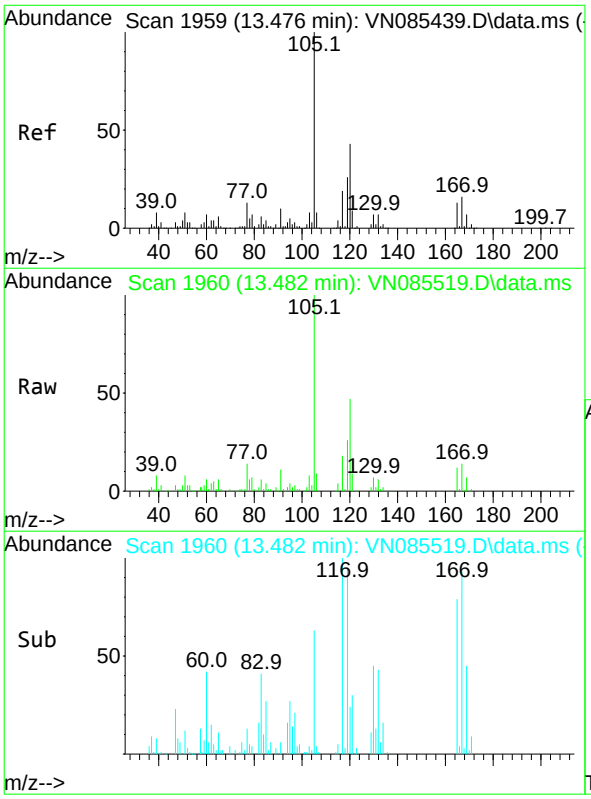
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 71.8 | 35.1 | 105.3 |
| 134 | 24.9 | 12.0 | 36.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

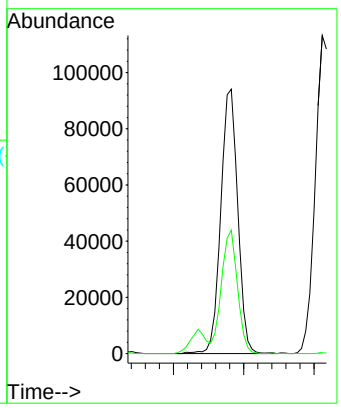


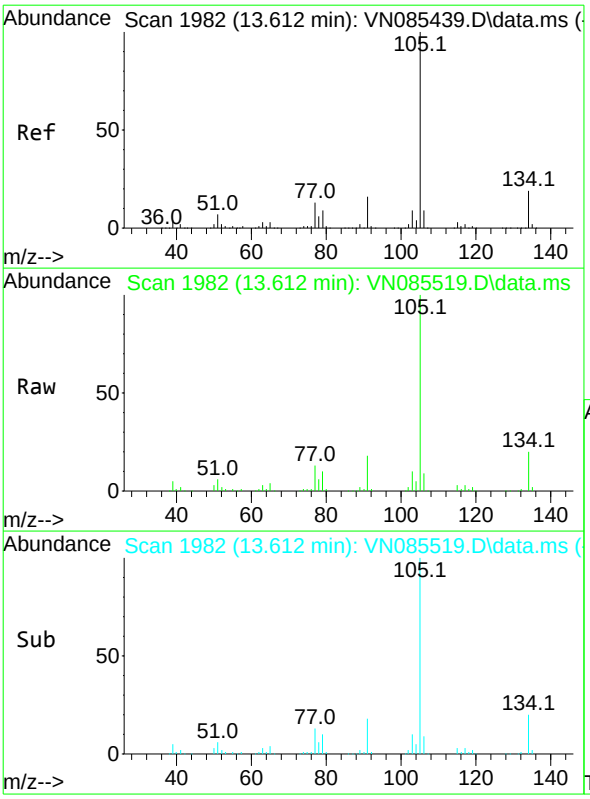




#84
1,2,4-Trimethylbenzene
Concen: 19.321 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:105 Resp: 158145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.0 | 21.6 | 65.0 |






#85
sec-Butylbenzene
Concen: 19.269 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

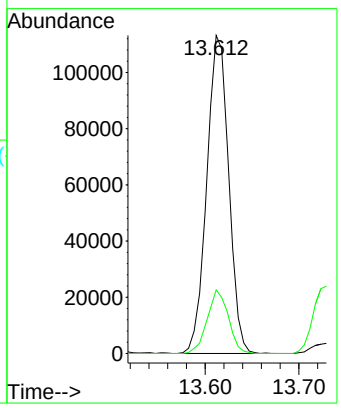
Tgt Ion:105 Resp: 184179

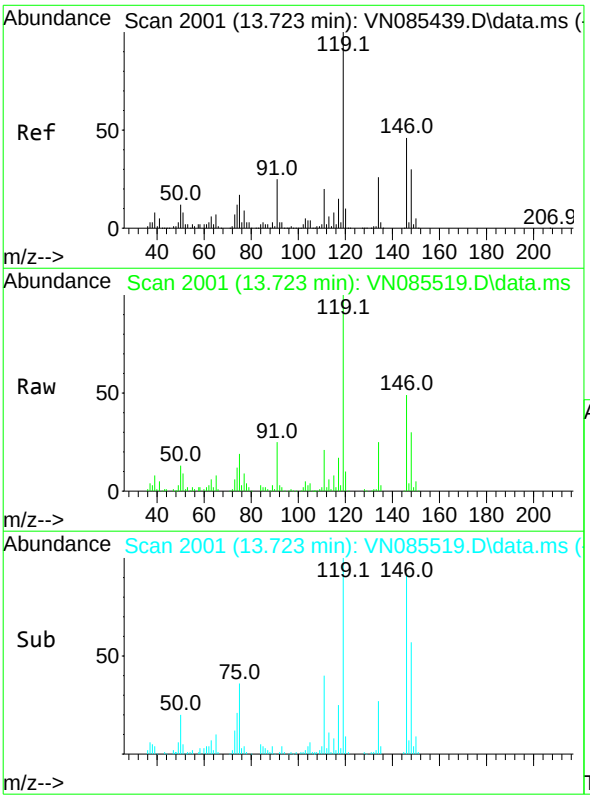
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.2 | 9.7 | 28.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

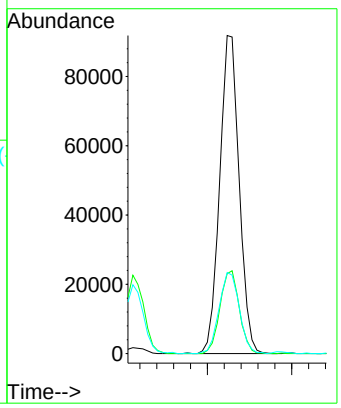


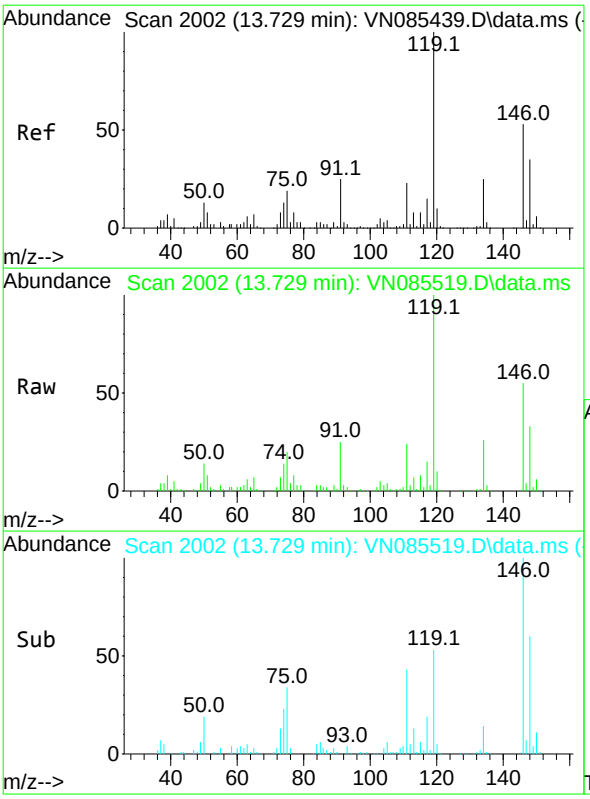




#86
p-Isopropyltoluene
Concen: 18.528 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:119 Resp: 147016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 12.7 | 38.0 |
| 91 | 26.5 | 12.7 | 38.1 |






#87
1,3-Dichlorobenzene
Concen: 17.692 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

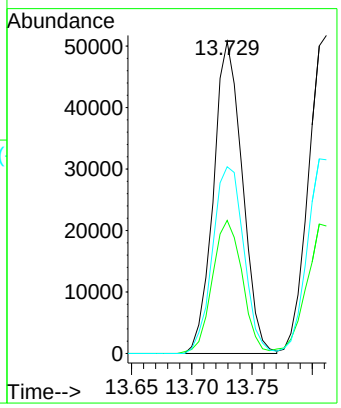
Tgt Ion:146 Resp: 84631

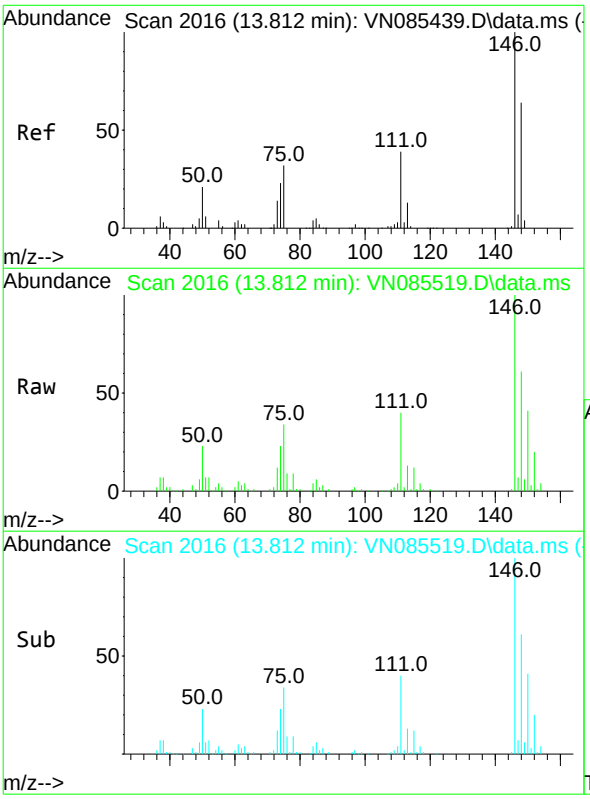
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.1 | 21.4 | 64.3 |
| 148 | 64.7 | 32.3 | 96.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

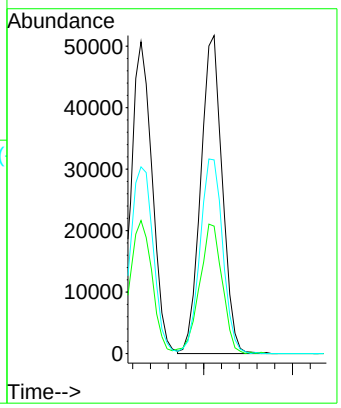


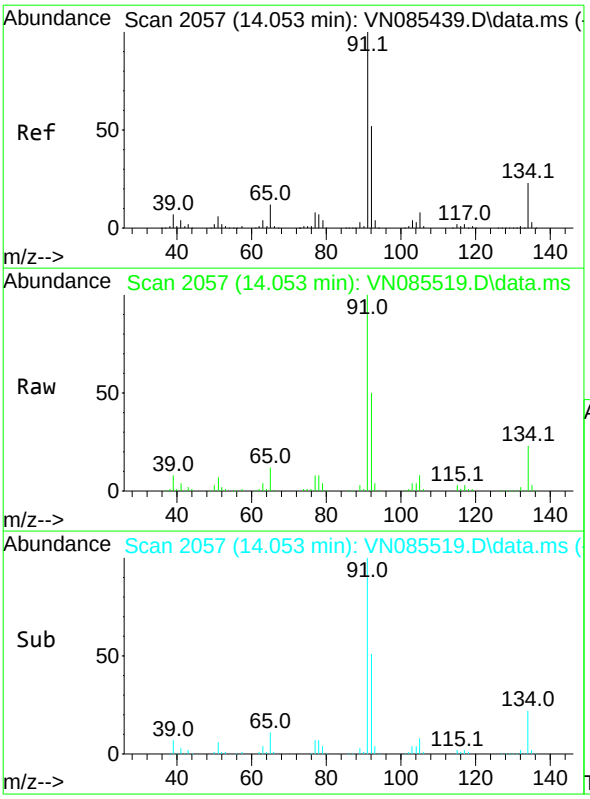




#88
1,4-Dichlorobenzene
Concen: 17.611 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:146 Resp: 87319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.9 | 21.3 | 63.7 |
| 148 | 64.5 | 32.4 | 97.0 |






#89
n-Butylbenzene
Concen: 17.814 ug/l
RT: 14.053 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

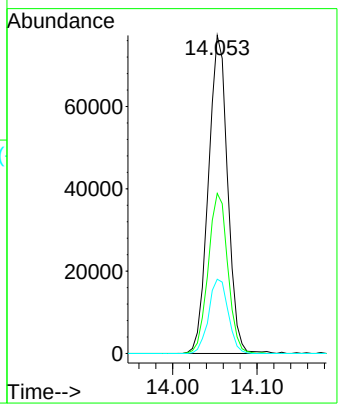
Tgt Ion: 91 Resp: 122155

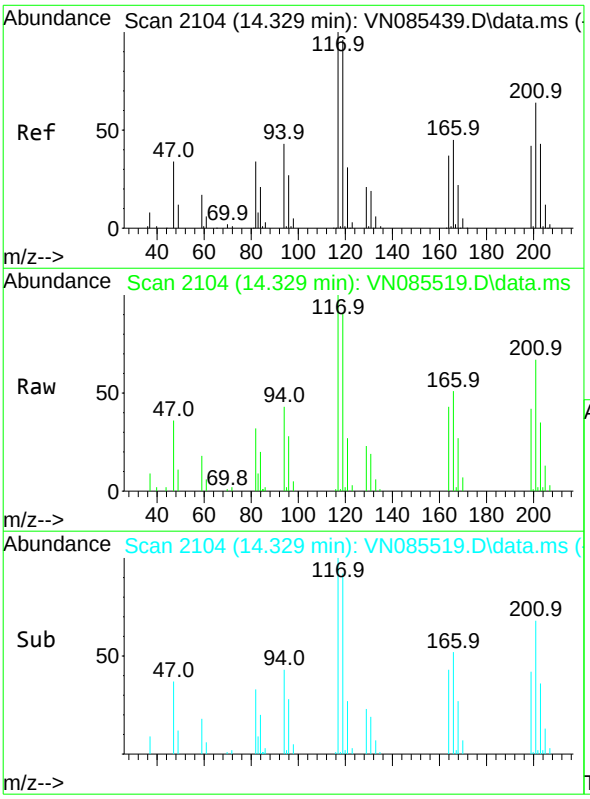
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.3 | 25.8 | 77.3 |
| 134 | 23.7 | 11.7 | 35.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

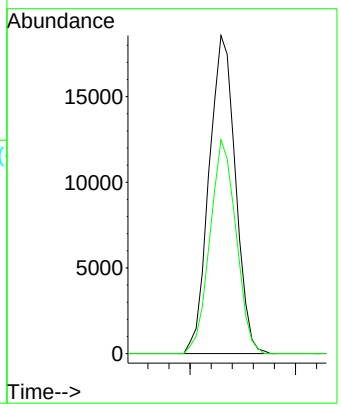


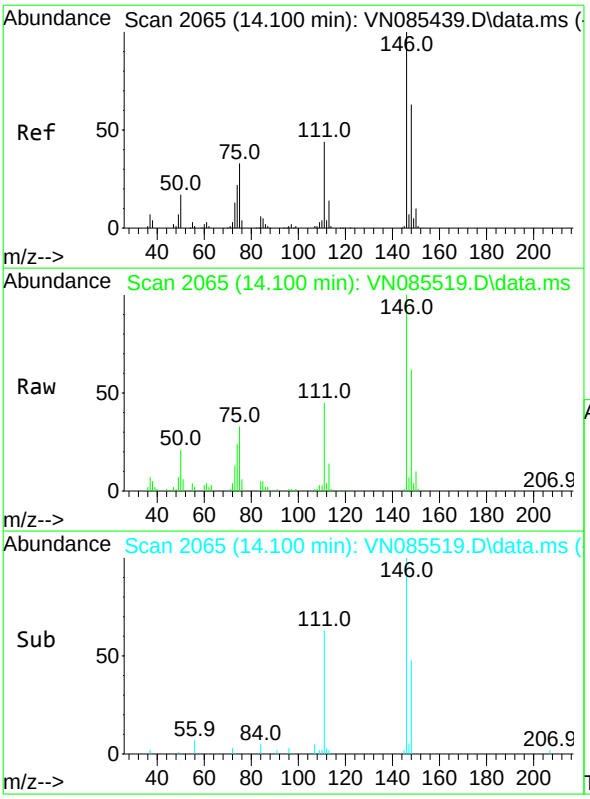




#90
Hexachloroethane
Concen: 17.731 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:117 Resp: 32263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 66.5 | 33.7 | 101.0 |






#91
1,2-Dichlorobenzene
Concen: 17.888 ug/l
RT: 14.100 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

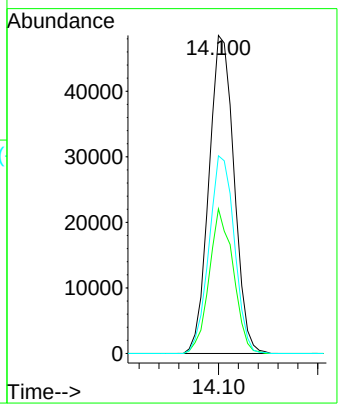
**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

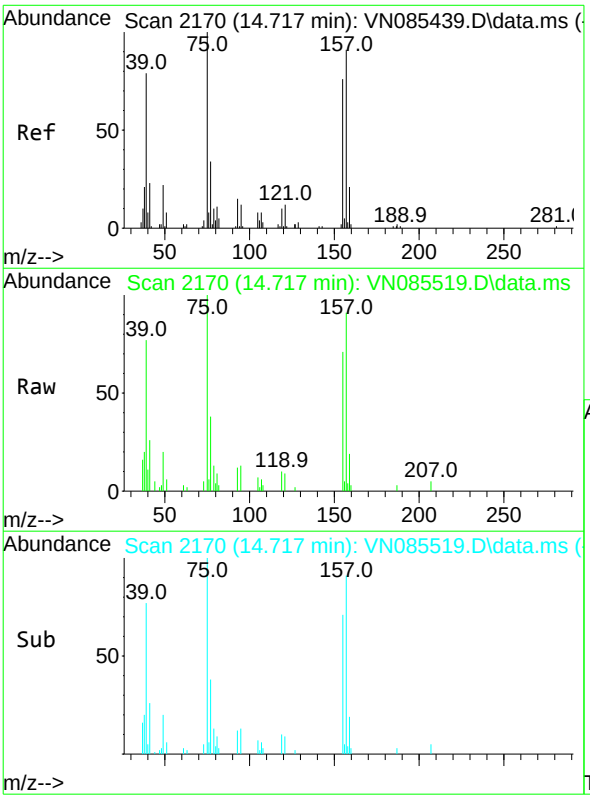
Tgt Ion:146 Resp: 85356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.5 | 21.7 | 65.1 |
| 148 | 62.8 | 31.4 | 94.2 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

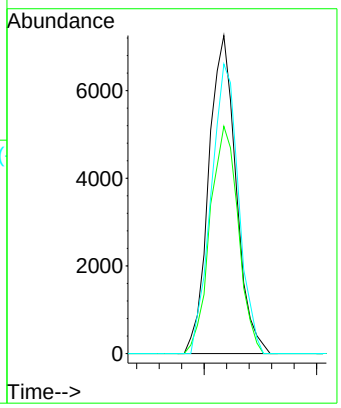


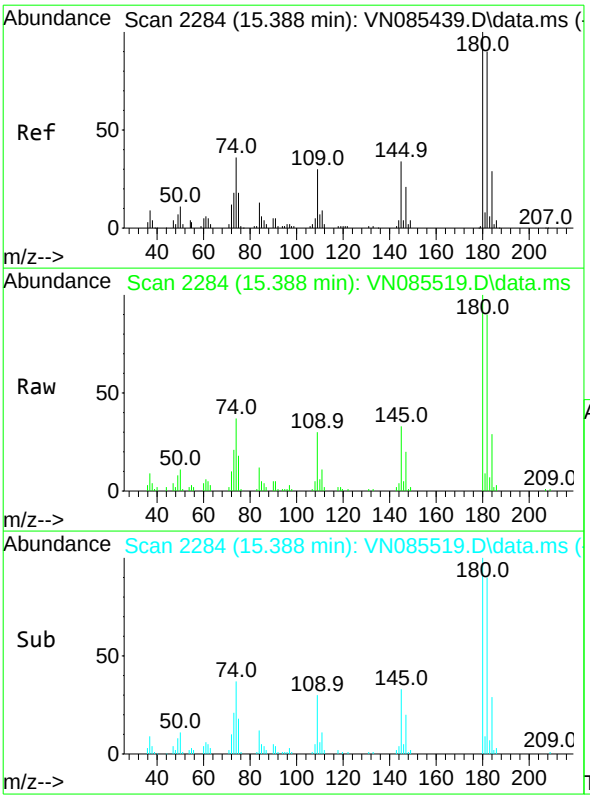




#92
1,2-Dibromo-3-Chloropropane
Concen: 19.073 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion: 75 Resp: 12232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 73.7 | 36.4 | 109.2 |
| 157 | 91.6 | 45.4 | 136.1 |






#93
1,2,4-Trichlorobenzene
Concen: 17.267 ug/l
RT: 15.388 min Scan# 22
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

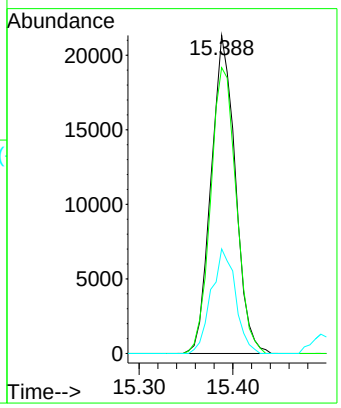
**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

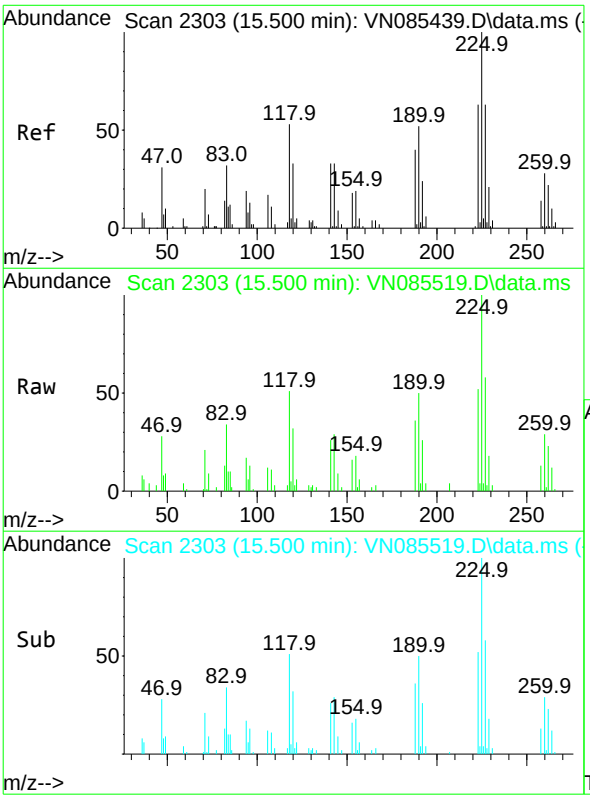
Tgt Ion:180 Resp: 38292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.4 | 46.8 | 140.3 |
| 145 | 32.9 | 16.0 | 48.0 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

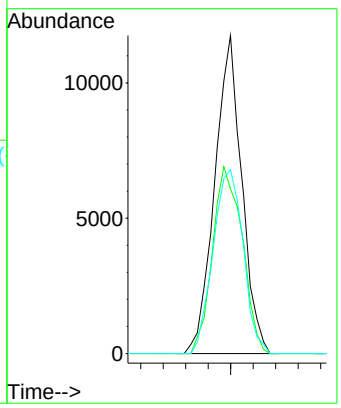


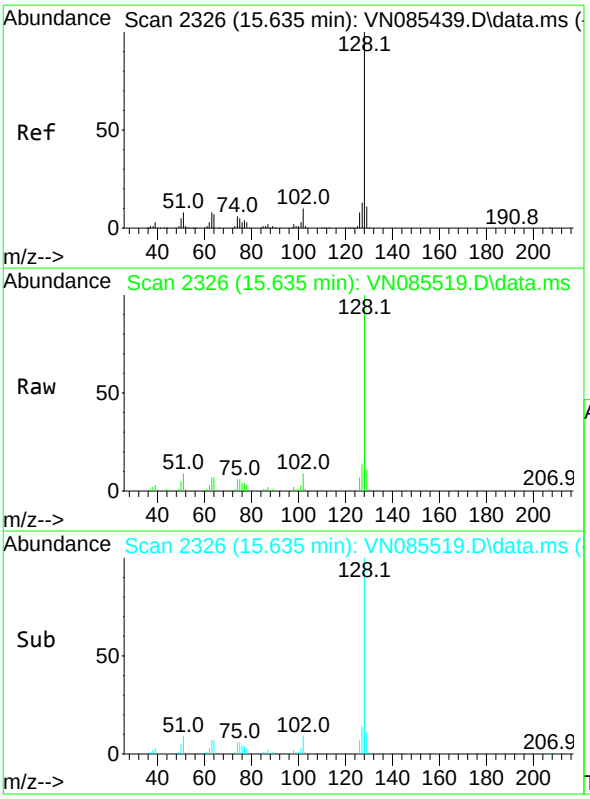




#94
Hexachlorobutadiene
Concen: 16.690 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:225 Resp: 19651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.6 | 30.7 | 92.1 |
| 227 | 64.0 | 30.9 | 92.5 |






#95
Naphthalene
Concen: 16.458 ug/l
RT: 15.635 min Scan# 23
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

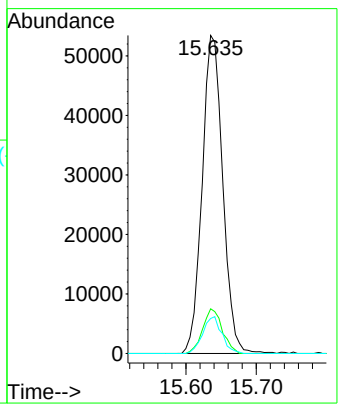
Tgt Ion:128 Resp: 108913

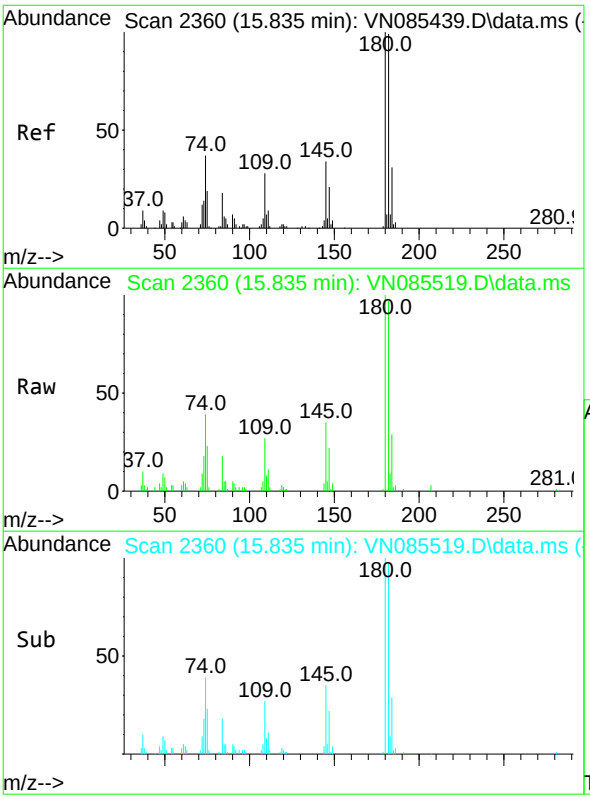
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.6 | 16.0 |
| 129 | 10.7 | 8.8 | 13.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

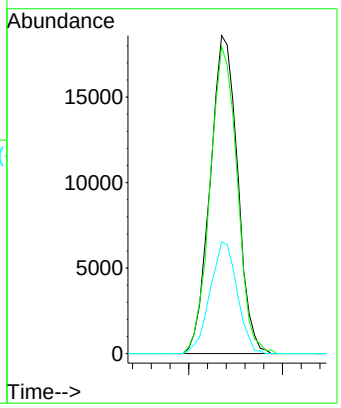



#96
1,2,3-Trichlorobenzene
Concen: 16.834 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085519.D
Acq: 27 Jan 2025 16:12

Tgt Ion:180 Resp: 37774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 47.4 | 142.2 |
| 145 | 34.8 | 16.9 | 50.7 |



Raw Data: **VN085529.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0128WBS01 | SDG No.: | Q1194 |
| Lab Sample ID: | VN0128WBS01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085529.D | 1 | | 01/28/25 11:15 | VN012825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 18.3 | | 0.21 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 17.3 | | 0.35 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 18.2 | | 0.34 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 19.5 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 19.8 | | 0.56 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 20.7 | | 0.34 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 20.5 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 19.1 | | 0.26 | 1.00 | ug/L |
| 67-64-1 | Acetone | 100 | | 1.40 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 16.4 | | 0.32 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 20.9 | | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 22.8 | | 0.60 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 19.8 | | 0.32 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 18.9 | | 0.25 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 20.1 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 17.6 | | 1.60 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 110 | | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 20.5 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 19.9 | | 0.25 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 16.1 | | 0.18 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 20.6 | | 0.26 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 20.4 | | 0.19 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 18.9 | | 0.19 | 1.00 | ug/L |
| 71-43-2 | Benzene | 20.7 | | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 21.0 | | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 20.4 | | 0.32 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 20.7 | | 0.19 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 21.7 | | 0.24 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 120 | | 0.75 | 5.00 | ug/L |
| 108-88-3 | Toluene | 21.9 | | 0.18 | 1.00 | ug/L |

Raw Data: **VN085529.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0128WBS01 | SDG No.: | Q1194 |
| Lab Sample ID: | VN0128WBS01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085529.D | 1 | | 01/28/25 11:15 | VN012825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 21.4 | | 0.21 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 21.5 | | 0.18 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 21.9 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 120 | | 1.10 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 21.2 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 20.6 | | 0.16 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 21.7 | | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 20.6 | | 0.13 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 20.8 | | 0.16 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 43.1 | | 0.31 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 20.9 | | 0.14 | 1.00 | ug/L |
| 100-42-5 | Styrene | 21.3 | | 0.16 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 22.5 | | 0.21 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 20.9 | | 0.13 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 21.6 | | 0.27 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 20.8 | | 0.24 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 19.8 | | 0.27 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 20.4 | | 0.19 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 23.5 | | 0.46 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 18.9 | | 0.42 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 19.0 | | 0.51 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.1 | | 70 (74) - 130 (125) | 102% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.2 | | 70 (75) - 130 (124) | 106% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 54.1 | | 70 (86) - 130 (113) | 108% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.0 | | 70 (77) - 130 (121) | 104% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 186000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 308000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 271000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 127000 | 13.788 | | | |

Raw Data: **VN085529.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0128WBS01 | SDG No.: | Q1194 |
| Lab Sample ID: | VN0128WBS01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085529.D | 1 | | 01/28/25 11:15 | VN012825 |

| 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

Quantitation Report (QT Reviewed)

Sample Results: **VN085529.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085529.D
Acq On : 28 Jan 2025 11:15
Operator : JC\MD
Sample : VN0128WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 29 00:35:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 185562 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 307569 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 271043 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 126721 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 153168 | 51.135 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 102.280% | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 113571 | 53.225 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 106.460% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 410056 | 54.088 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 108.180% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 134929 | 52.029 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 104.060% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 45881 | 18.261 | ug/l | 99 |
| 3) Chloromethane | 2.359 | 50 | 46936 | 17.254 | ug/l | 98 |
| 4) Vinyl Chloride | 2.512 | 62 | 49715 | 18.182 | ug/l | 98 |
| 5) Bromomethane | 2.965 | 94 | 32217 | 19.506 | ug/l | 93 |
| 6) Chloroethane | 3.118 | 64 | 34288 | 19.780 | ug/l | 95 |
| 7) Trichlorofluoromethane | 3.501 | 101 | 82151 | 20.707 | ug/l | 94 |
| 8) Diethyl Ether | 3.959 | 74 | 26345 | 19.222 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.377 | 101 | 45774 | 20.484 | ug/l | 98 |
| 10) Methyl Iodide | 4.589 | 142 | 50026 | 19.549 | ug/l | 95 |
| 11) Tert butyl alcohol | 5.512 | 59 | 37334 | 108.849 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 37952 | 19.057 | ug/l | 93 |
| 13) Acrolein | 4.177 | 56 | 39646 | 84.676 | ug/l | 98 |
| 14) Allyl chloride | 5.024 | 41 | 59056 | 18.275 | ug/l | 98 |
| 15) Acrylonitrile | 5.712 | 53 | 116207 | 106.667 | ug/l | 98 |
| 16) Acetone | 4.424 | 43 | 101360 | 104.730 | ug/l | 94 |
| 17) Carbon Disulfide | 4.706 | 76 | 100344 | 16.364 | ug/l | 98 |
| 18) Methyl Acetate | 5.018 | 43 | 66988 | 22.762 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.789 | 73 | 135056 | 20.885 | ug/l | 97 |
| 20) Methylene Chloride | 5.277 | 84 | 47487 | 19.820 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.789 | 96 | 40233 | 18.903 | ug/l | 94 |
| 22) Diisopropyl ether | 6.671 | 45 | 147403 | 20.550 | ug/l | 97 |
| 23) Vinyl Acetate | 6.600 | 43 | 516002 | 102.796 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.565 | 63 | 87952 | 20.110 | ug/l | 99 |
| 25) 2-Butanone | 7.477 | 43 | 153642 | 107.876 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.488 | 77 | 78263 | 22.133 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.488 | 96 | 49822 | 19.875 | ug/l | 99 |
| 28) Bromochloromethane | 7.812 | 49 | 32851 | 16.145 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.836 | 42 | 102010 | 112.971 | ug/l | 99 |
| 30) Chloroform | 7.965 | 83 | 92905 | 20.553 | ug/l | 93 |
| 31) Cyclohexane | 8.253 | 56 | 67069 | 17.643 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 80919 | 20.408 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.365 | 75 | 58916 | 19.673 | ug/l | 99 |
| 37) Ethyl Acetate | 7.553 | 43 | 62638 | 20.722 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 70429 | 20.543 | ug/l | 97 |
| 39) Methylcyclohexane | 9.600 | 83 | 53089 | 18.865 | ug/l | 96 |
| 40) Benzene | 8.606 | 78 | 186111 | 20.683 | ug/l | 100 |

Sample Results: **VN085529.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085529.D
Acq On : 28 Jan 2025 11:15
Operator : JC\MD
Sample : VN0128WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 29 00:35:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.777 | 41 | 33670 | 21.410 ug/l | 98 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 71068 | 20.970 ug/l | 100 |
| 43) Isopropyl Acetate | 8.688 | 43 | 105036 | 21.686 ug/l | 99 |
| 44) Trichloroethene | 9.347 | 130 | 42674 | 20.374 ug/l | 97 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 47674 | 20.743 ug/l | 98 |
| 46) Dibromomethane | 9.706 | 93 | 33823 | 20.395 ug/l | 97 |
| 47) Bromodichloromethane | 9.882 | 83 | 73309 | 21.697 ug/l | 97 |
| 48) Methyl methacrylate | 9.677 | 41 | 47567 | 21.823 ug/l | 98 |
| 49) 1,4-Dioxane | 9.694 | 88 | 15432 | 420.430 ug/l | 98 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 324778 | 115.555 ug/l | 100 |
| 52) Toluene | 10.629 | 92 | 113994 | 21.864 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.829 | 75 | 68322 | 21.398 ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 10.312 | 75 | 73429 | 21.530 ug/l | 95 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 45212 | 21.912 ug/l | 94 |
| 56) Ethyl methacrylate | 10.871 | 69 | 62727 | 19.281 ug/l | 98 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 78623 | 21.915 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 114984 | 87.817 ug/l | 100 |
| 59) 2-Hexanone | 11.194 | 43 | 234494 | 118.574 ug/l | 98 |
| 60) Dibromochloromethane | 11.359 | 129 | 52835 | 21.210 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.471 | 107 | 42361 | 20.625 ug/l | 99 |
| 64) Tetrachloroethene | 11.100 | 164 | 40019 | 21.658 ug/l | 99 |
| 65) Chlorobenzene | 11.888 | 112 | 122235 | 20.586 ug/l | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 46034 | 21.124 ug/l | 99 |
| 67) Ethyl Benzene | 11.959 | 91 | 201123 | 20.797 ug/l | 98 |
| 68) m/p-Xylenes | 12.071 | 106 | 154069 | 43.106 ug/l | 99 |
| 69) o-Xylene | 12.394 | 106 | 71535 | 20.943 ug/l | 100 |
| 70) Styrene | 12.412 | 104 | 120125 | 21.250 ug/l | 99 |
| 71) Bromoform | 12.576 | 173 | 35108 | 22.516 ug/l # | 99 |
| 73) Isopropylbenzene | 12.694 | 105 | 178577 | 20.880 ug/l | 98 |
| 74) N-amyl acetate | 12.488 | 43 | 80633 | 20.975 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 65405 | 21.649 ug/l | 98 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 60066m | 23.321 ug/l | |
| 77) Bromobenzene | 12.976 | 156 | 47665 | 21.332 ug/l | 99 |
| 78) n-propylbenzene | 13.035 | 91 | 217855 | 21.517 ug/l | 99 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 138138 | 21.081 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.170 | 105 | 154258 | 21.836 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 21965 | 23.073 ug/l | 87 |
| 82) 4-Chlorotoluene | 13.218 | 91 | 139420 | 21.369 ug/l | 100 |
| 83) tert-Butylbenzene | 13.435 | 119 | 124147 | 20.926 ug/l | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.482 | 105 | 155548 | 22.092 ug/l | 98 |
| 85) sec-Butylbenzene | 13.612 | 105 | 178351 | 21.691 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.729 | 119 | 143953 | 20.952 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 85729 | 20.833 ug/l | 98 |
| 88) 1,4-Dichlorobenzene | 13.812 | 146 | 84406 | 19.789 ug/l | 99 |
| 89) n-Butylbenzene | 14.053 | 91 | 115181 | 19.526 ug/l | 100 |
| 90) Hexachloroethane | 14.329 | 117 | 30558 | 19.522 ug/l | 97 |
| 91) 1,2-Dichlorobenzene | 14.100 | 146 | 83529 | 20.350 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 12961 | 23.494 ug/l | 91 |
| 93) 1,2,4-Trichlorobenzene | 15.394 | 180 | 36081 | 18.913 ug/l | 95 |
| 94) Hexachlorobutadiene | 15.494 | 225 | 20163 | 19.907 ug/l | 98 |
| 95) Naphthalene | 15.641 | 128 | 104713 | 18.394 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 36634 | 18.978 ug/l | 98 |

Sample Results: **VN085529.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085529.D
Acq On : 28 Jan 2025 11:15
Operator : JC\MD
Sample : VN0128WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

Quant Time: Jan 29 00:35:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

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

Sample Results: **VN085529.D**

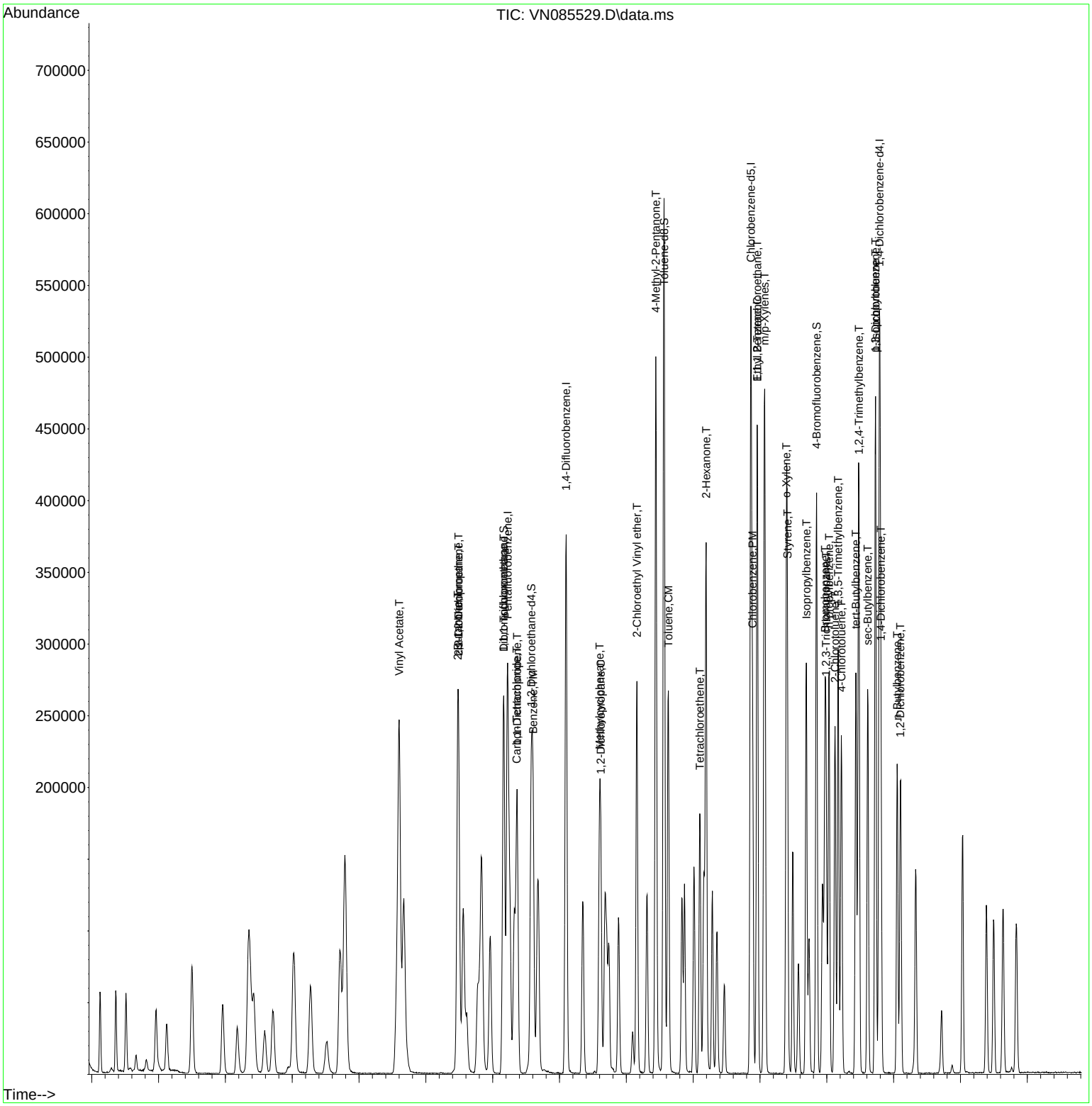
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012825\
Data File : VN085529.D
Acq On : 28 Jan 2025 11:15
Operator : JC\MD
Sample : VN0128WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

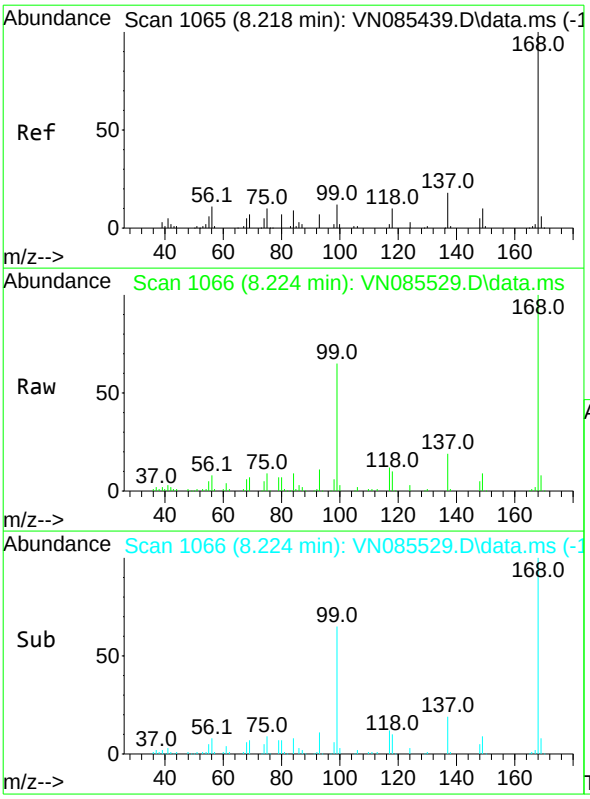
Quant Time: Jan 29 00:35:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

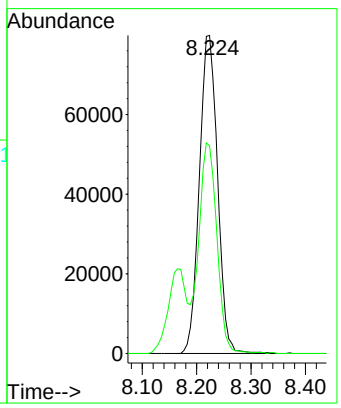
Tgt Ion:168 Resp: 185562

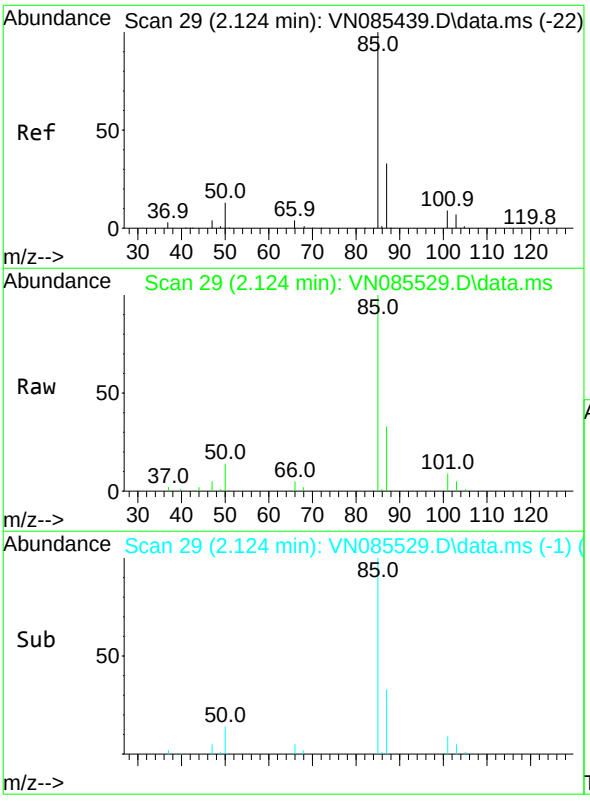
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.3 | 53.6 | 80.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

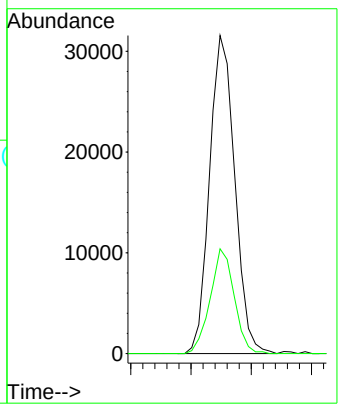


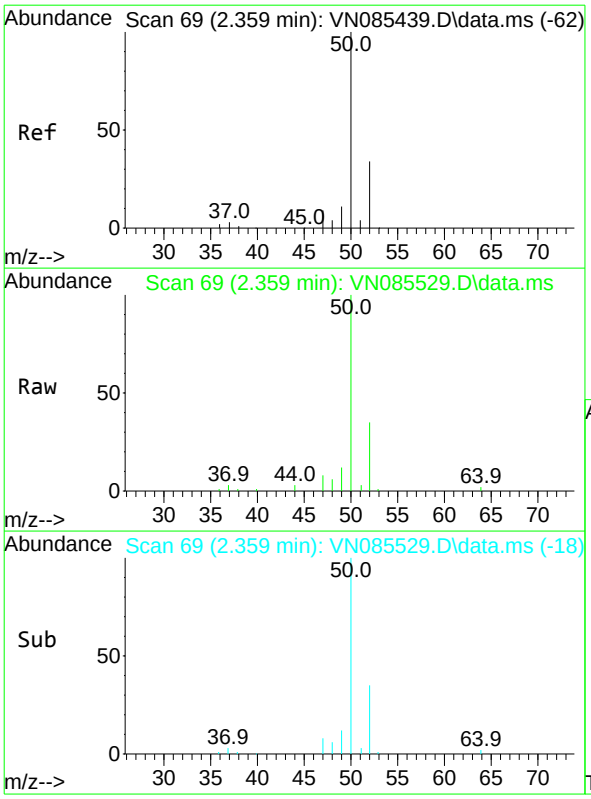




#2
Dichlorodifluoromethane
Concen: 18.261 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 85 Resp: 45881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.0 | 16.7 | 50.1 |

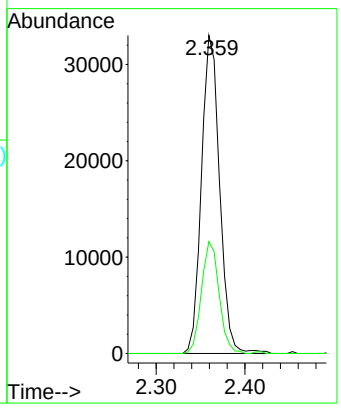





#3
Chloromethane
Concen: 17.254 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 50 Resp: 46936

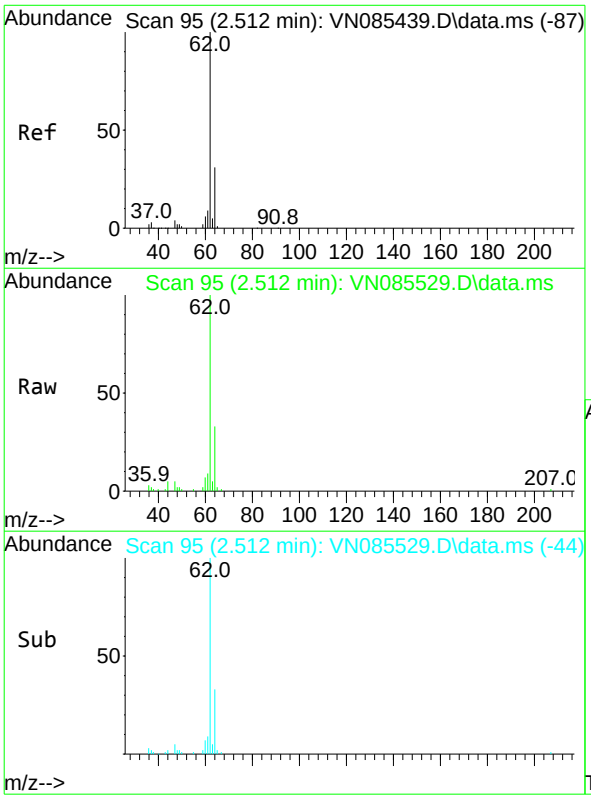
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 35.2 | 27.0 | 40.6 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

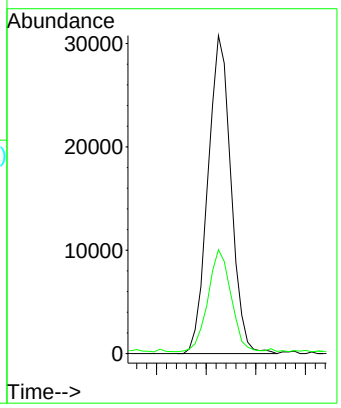
Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

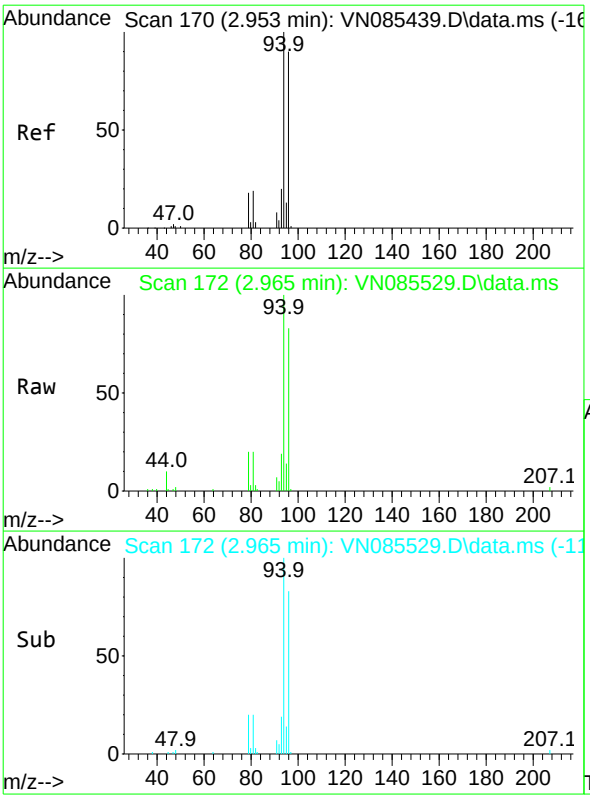



#4
Vinyl Chloride
Concen: 18.182 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 62 Resp: 49715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.1 | 24.8 | 37.2 |






#5
Bromomethane
Concen: 19.506 ug/l
RT: 2.965 min Scan# 17
Delta R.T. 0.012 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

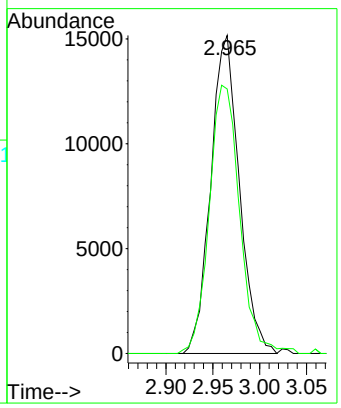
Tgt Ion: 94 Resp: 32217

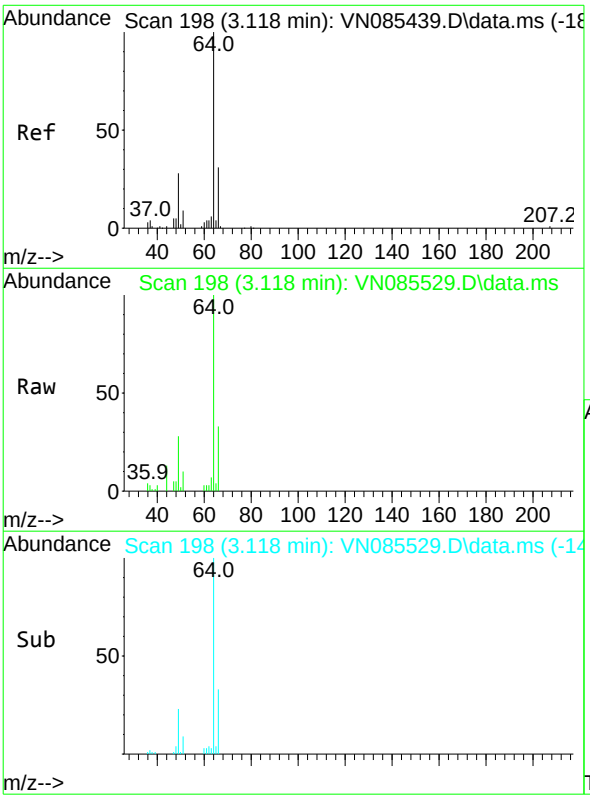
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 83.2 | 71.8 | 107.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

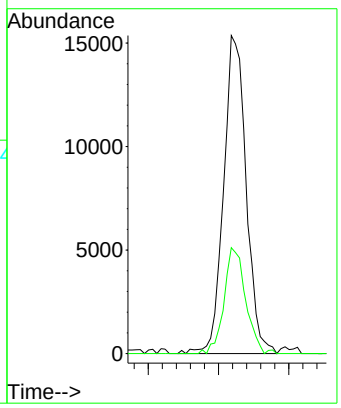


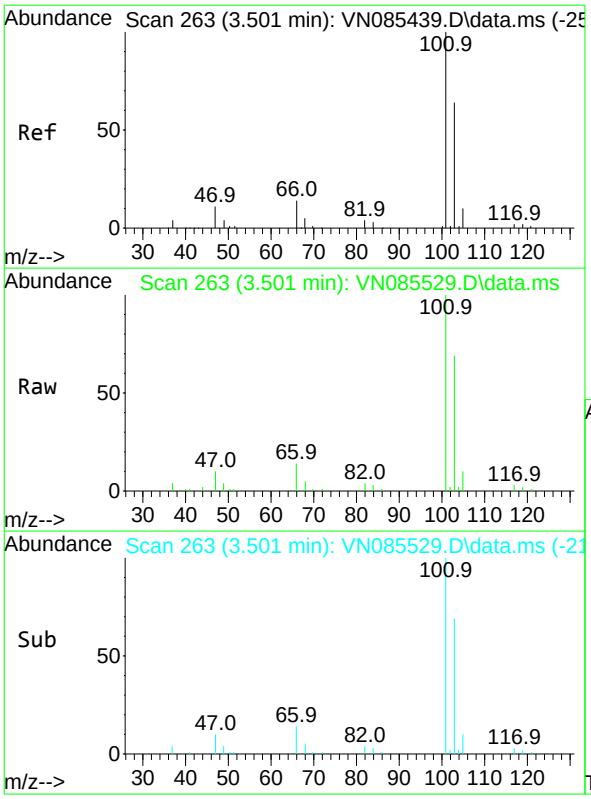




#6
Chloroethane
Concen: 19.780 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 64 Resp: 34288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.3 | 24.6 | 36.8 |






#7
Trichlorofluoromethane
Concen: 20.707 ug/l
RT: 3.501 min Scan# 26
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

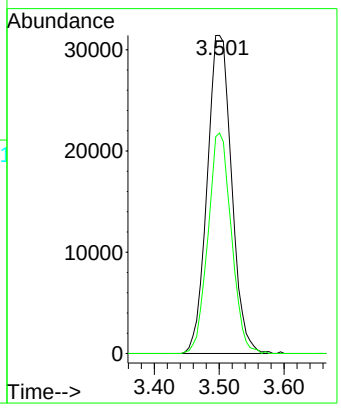
Tgt Ion:101 Resp: 82151

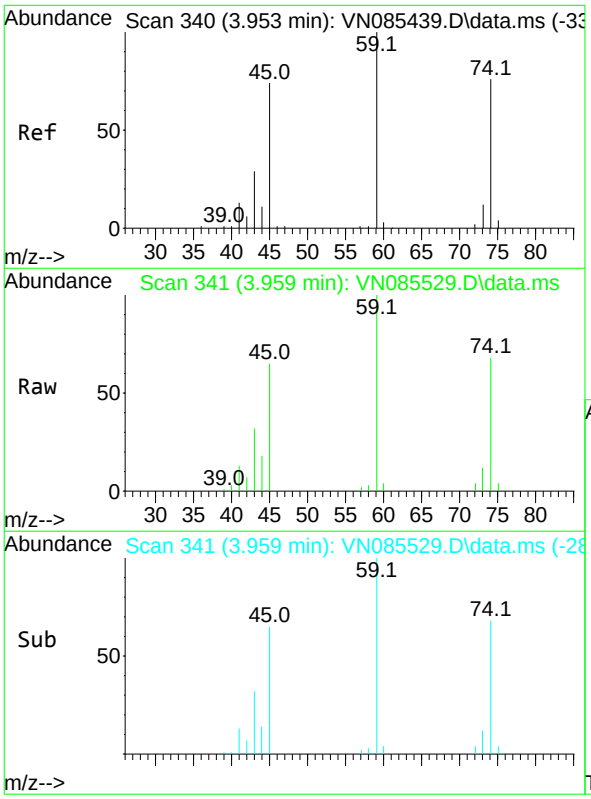
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 69.3 | 51.4 | 77.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

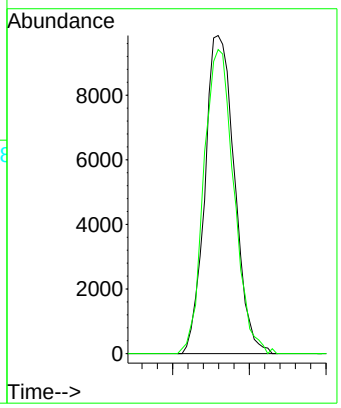


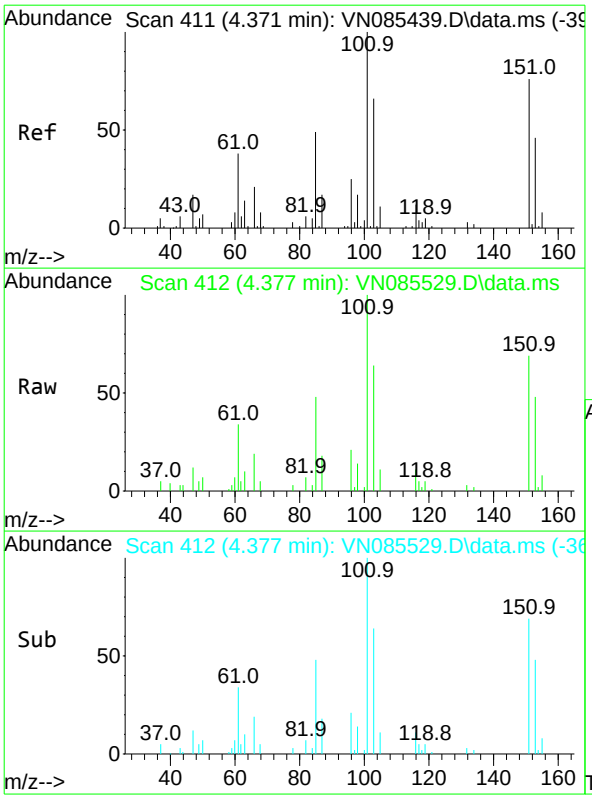




#8
Diethyl Ether
Concen: 19.222 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 74 Resp: 26345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 97.4 | 49.7 | 149.1 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.484 ug/l
RT: 4.377 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

Tgt Ion:101 Resp: 45774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.9 | 37.8 | 56.8 |
| 151 | 72.0 | 58.8 | 88.2 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
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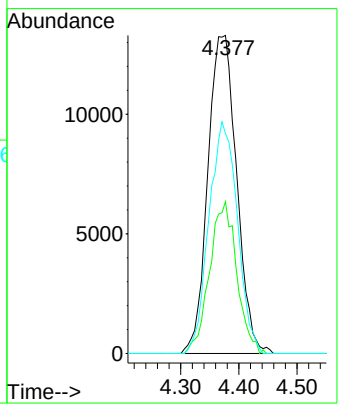
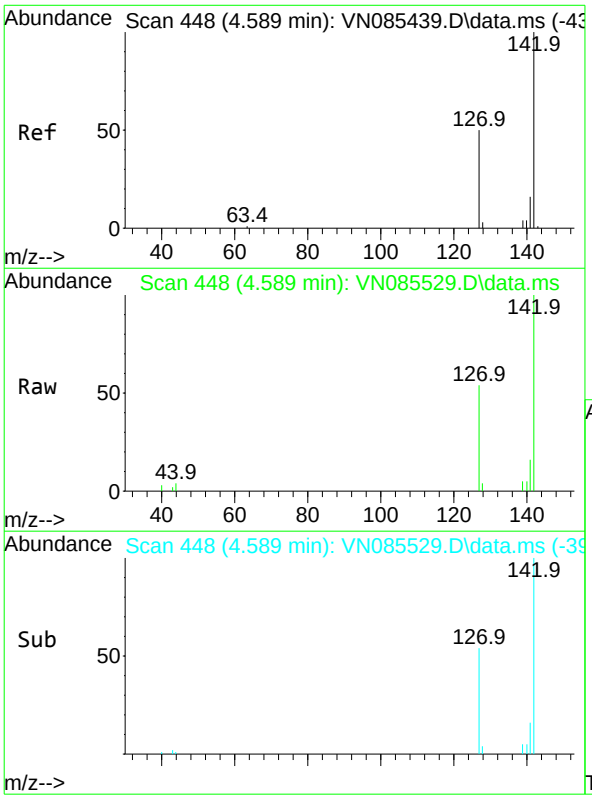
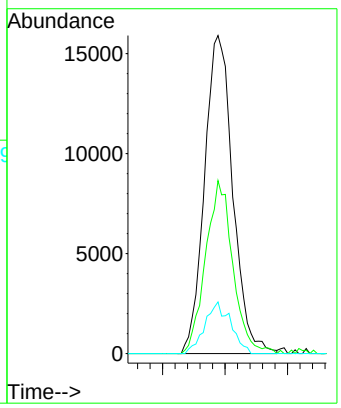


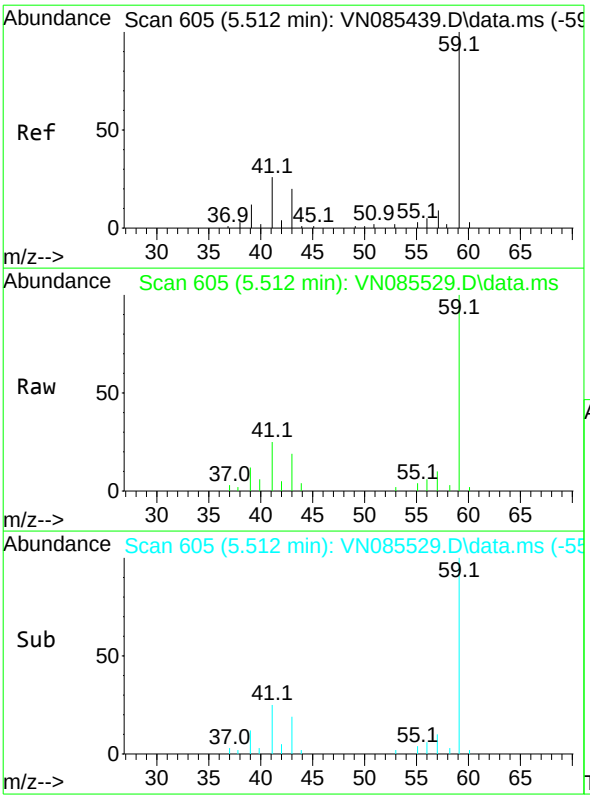




#10
Methyl Iodide
Concen: 19.549 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:142 Resp: 50026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 54.4 | 40.3 | 60.5 |
| 141 | 16.2 | 12.8 | 19.2 |






#11
Tert butyl alcohol
Concen: 108.849 ug/l
RT: 5.512 min Scan# 60
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 59 Resp: 37334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.4 | 8.6 | 13.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
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Reviewed By :John Carlone 01/29/2025
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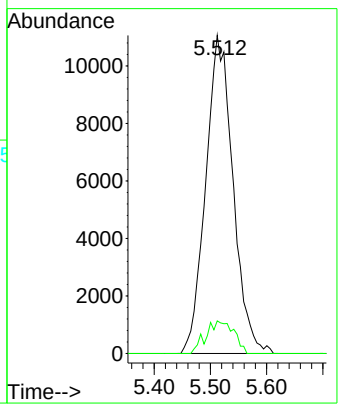
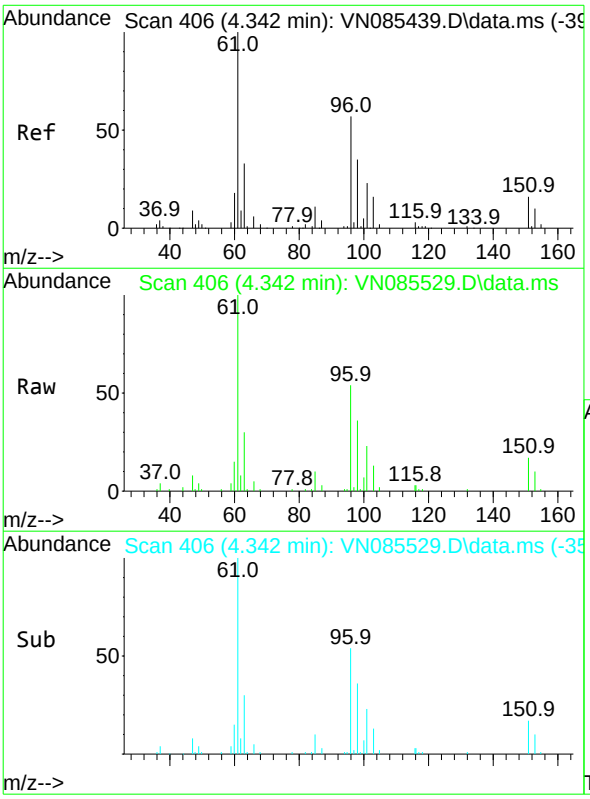
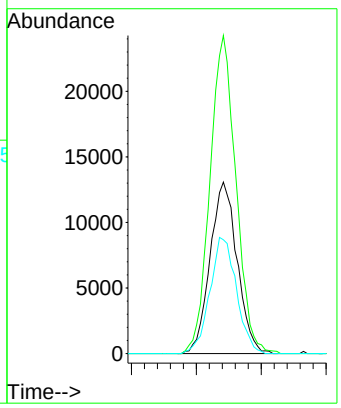


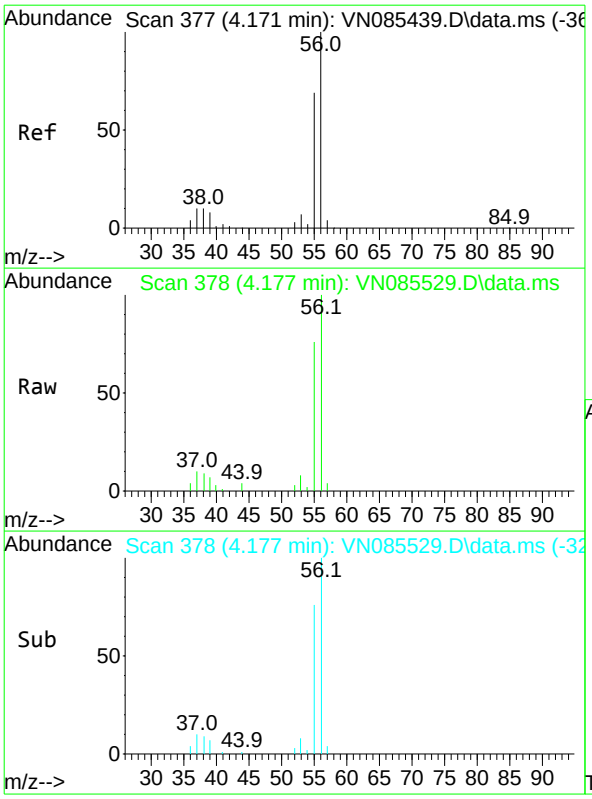




#12
1,1-Dichloroethene
Concen: 19.057 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 96 Resp: 37952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 185.5 | 141.0 | 211.4 |
| 98 | 66.4 | 49.0 | 73.6 |






#13
Acrolein
Concen: 84.676 ug/l
RT: 4.177 min Scan# 37
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 56 Resp: 39646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.9 | 56.3 | 84.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
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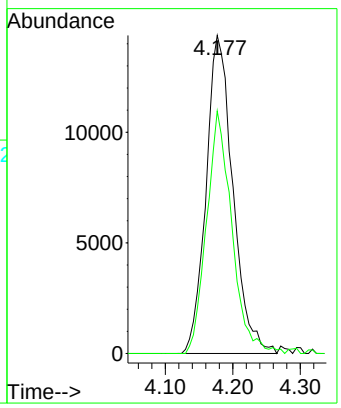
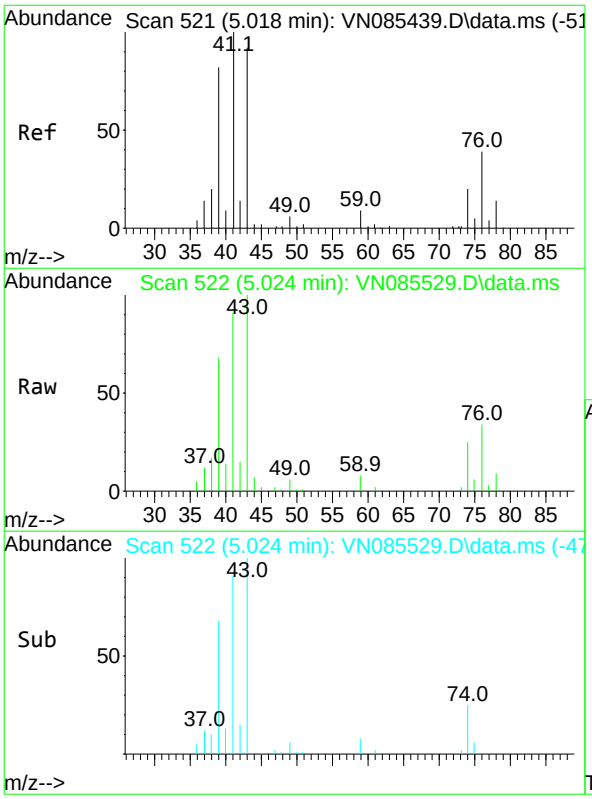
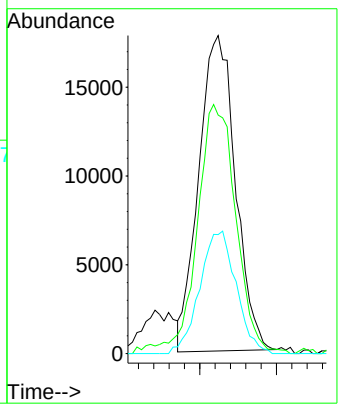


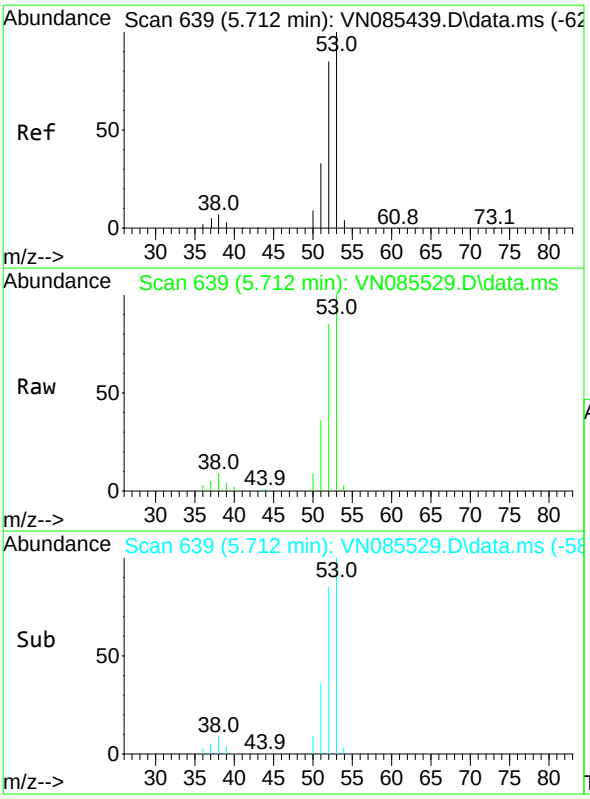




#14
Allyl chloride
Concen: 18.275 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 41 Resp: 59056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 83.5 | 64.4 | 96.6 |
| 76 | 38.4 | 30.5 | 45.7 |






#15
Acrylonitrile
Concen: 106.667 ug/l
RT: 5.712 min Scan# 63
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 53 Resp: 116207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.3 | 65.5 | 98.3 |
| 51 | 36.3 | 29.8 | 44.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
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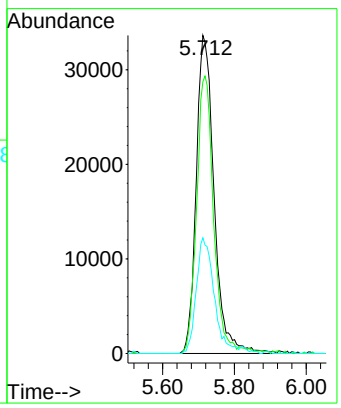
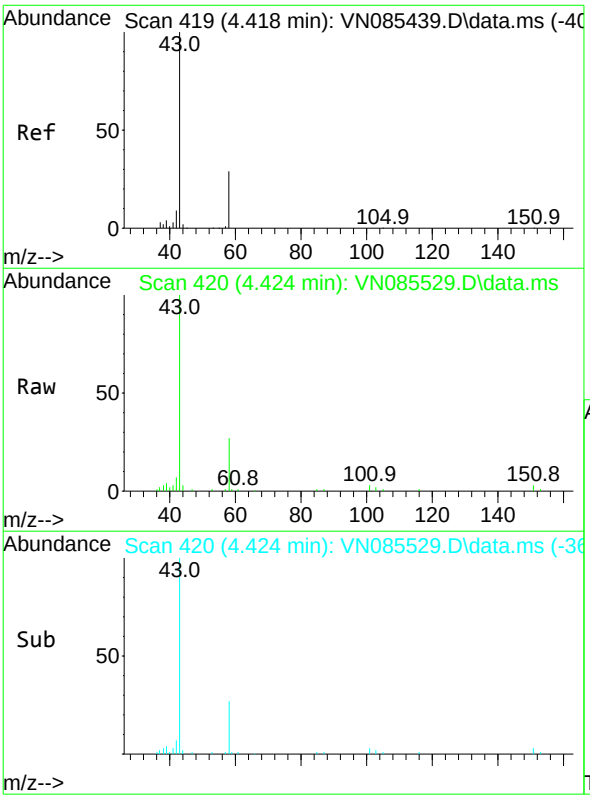
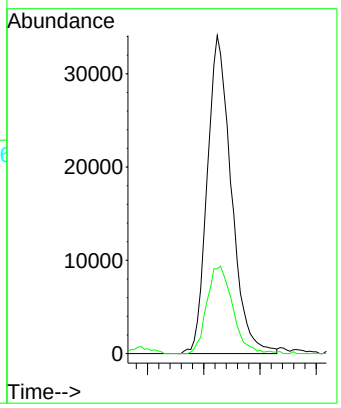


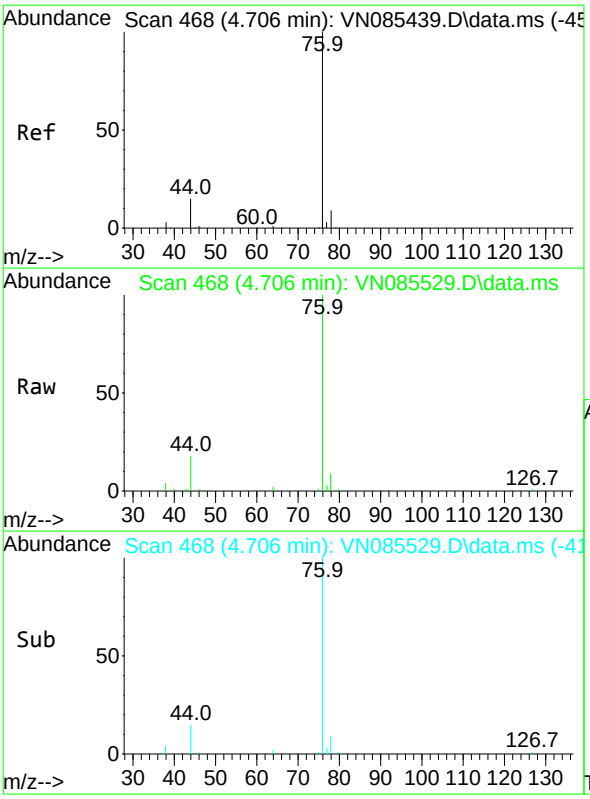




#16
Acetone
Concen: 104.730 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 43 Resp: 101360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.7 | 23.8 | 35.6 |






#17
Carbon Disulfide
Concen: 16.364 ug/l
RT: 4.706 min Scan# 46
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

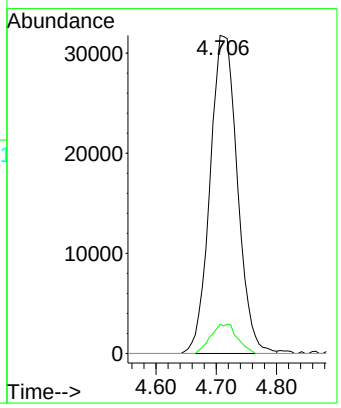
Tgt Ion: 76 Resp: 100344

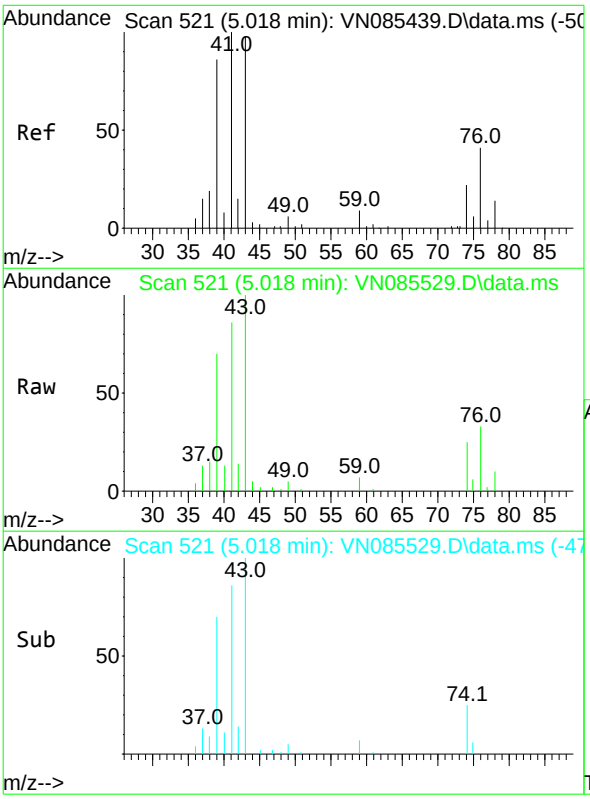
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 6.9 | 10.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

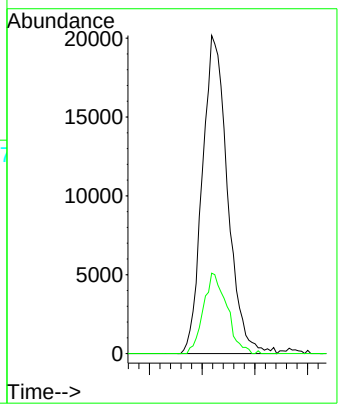


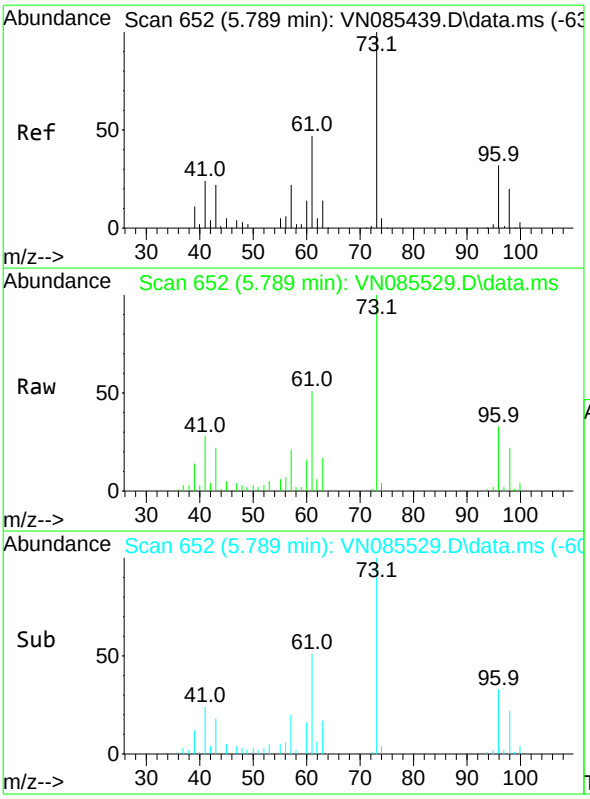




#18
Methyl Acetate
Concen: 22.762 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 43 Resp: 66988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.6 | 18.6 | 28.0 |






#19
Methyl tert-butyl Ether
Concen: 20.885 ug/l
RT: 5.789 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

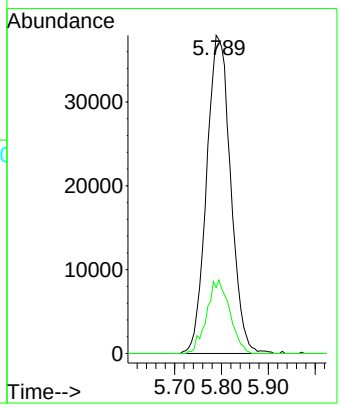
Tgt Ion: 73 Resp: 135056

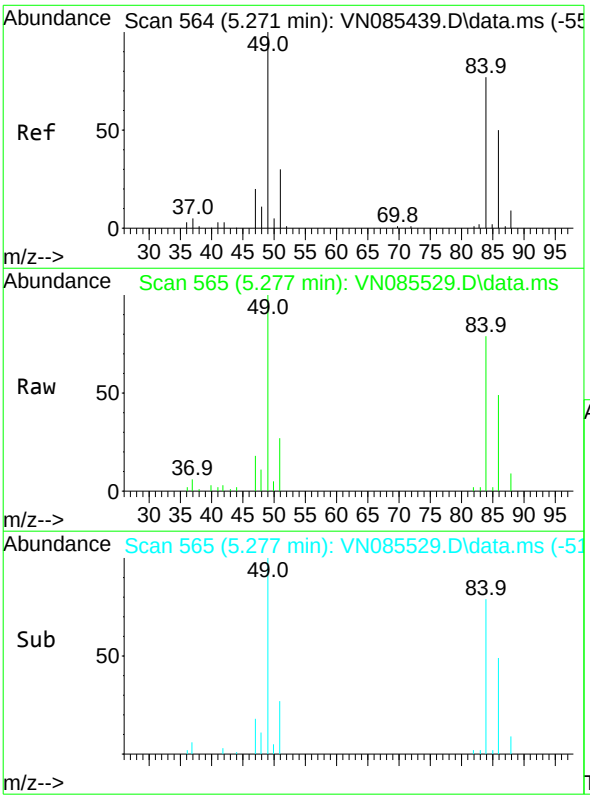
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.8 | 17.8 | 26.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

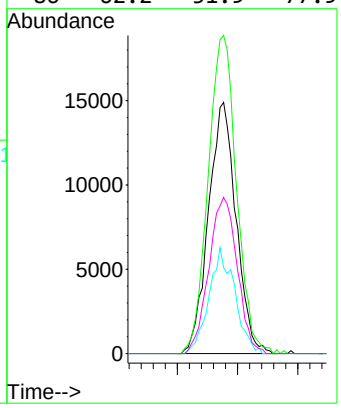


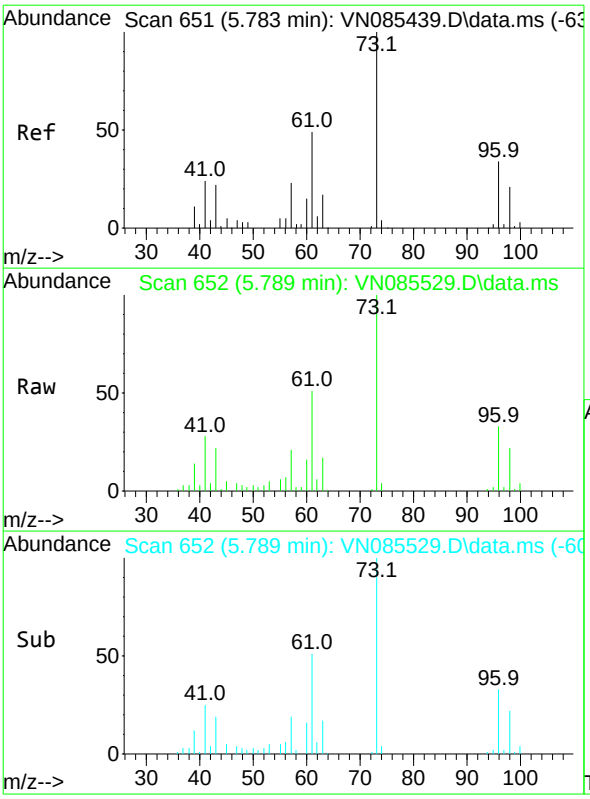




#20
Methylene Chloride
Concen: 19.820 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 84 Resp: 47487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 126.6 | 104.1 | 156.1 |
| 51 | 34.2 | 31.0 | 46.4 |
| 86 | 62.2 | 51.9 | 77.9 |






#21
trans-1,2-Dichloroethene
Concen: 18.903 ug/l
RT: 5.789 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 96 Resp: 40233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 152.9 | 115.7 | 173.5 |
| 98 | 66.4 | 49.8 | 74.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
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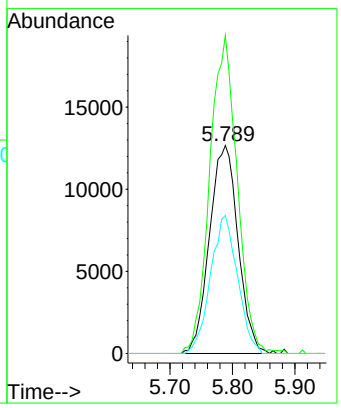
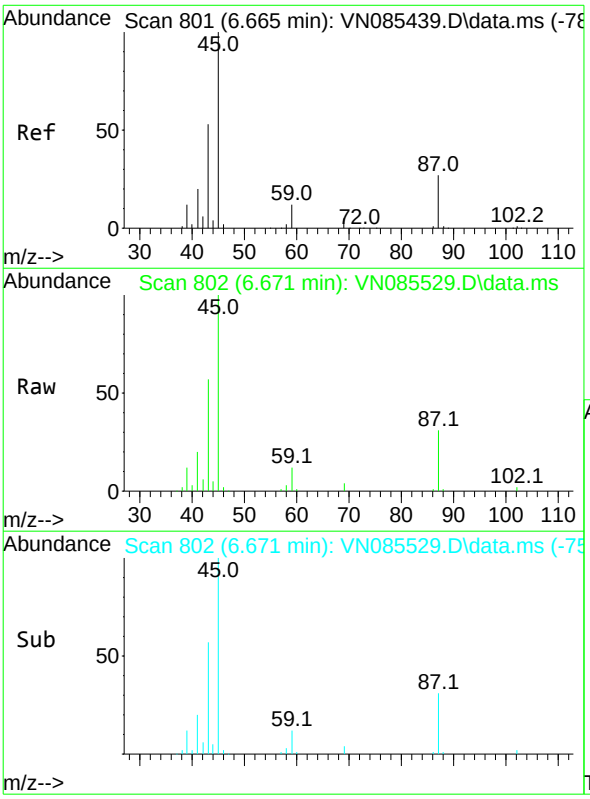
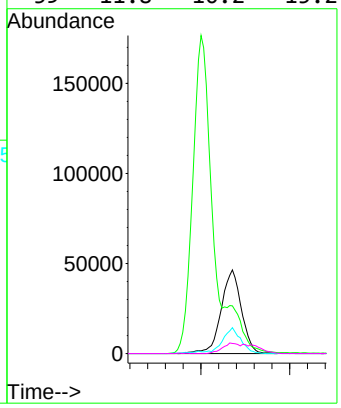


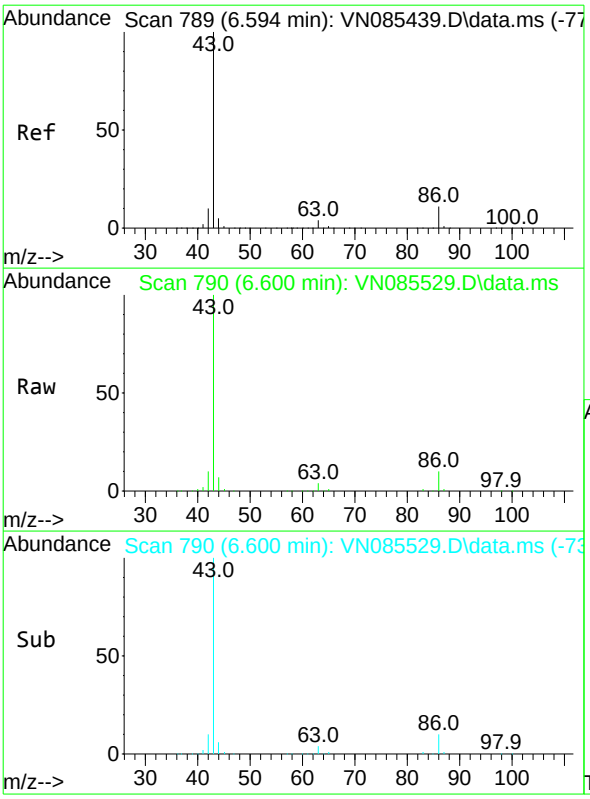




#22
Diisopropyl ether
Concen: 20.550 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 45 Resp: 147403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 55.8 | 45.0 | 67.6 |
| 87 | 31.0 | 21.8 | 32.8 |
| 59 | 11.8 | 10.2 | 15.2 |






#23
Vinyl Acetate
Concen: 102.796 ug/l
RT: 6.600 min Scan# 79
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 43 Resp: 516002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.2 | 8.4 | 12.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
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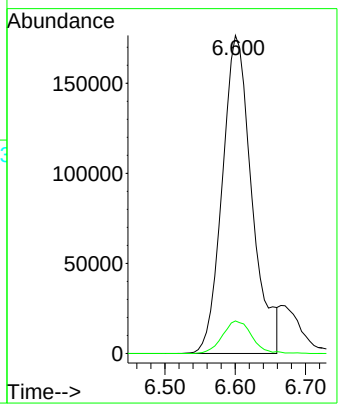
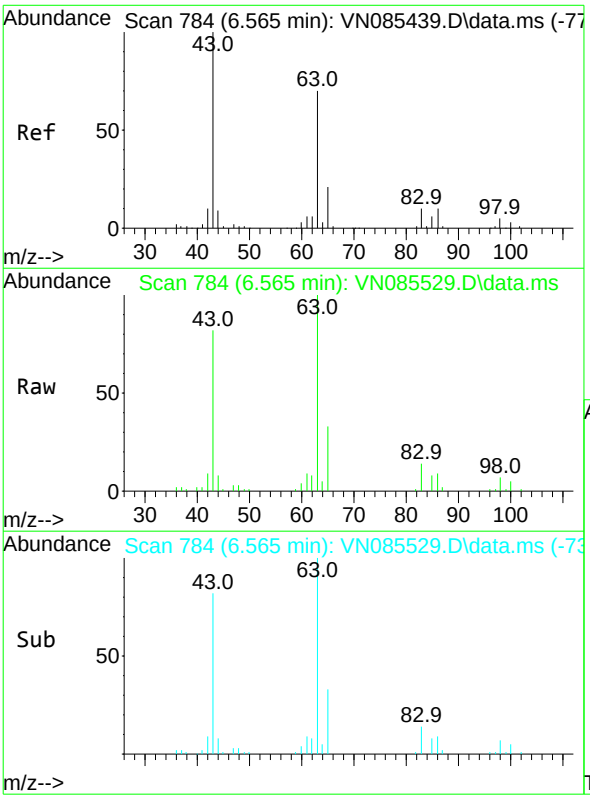
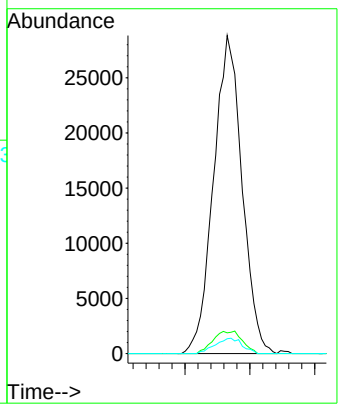


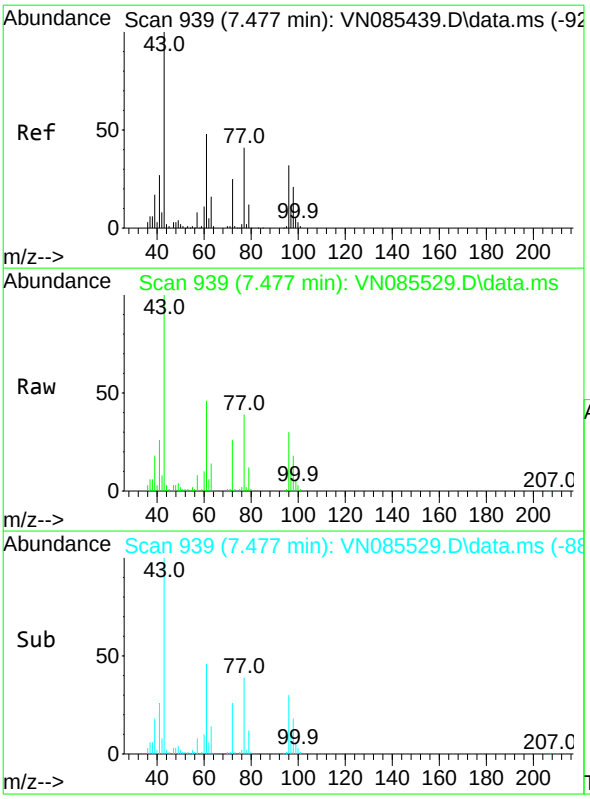




#24
1,1-Dichloroethane
Concen: 20.110 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 63 Resp: 87952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.5 | 3.3 | 9.8 |
| 100 | 4.7 | 2.0 | 6.0 |






#25
2-Butanone
Concen: 107.876 ug/l
RT: 7.477 min Scan# 93
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

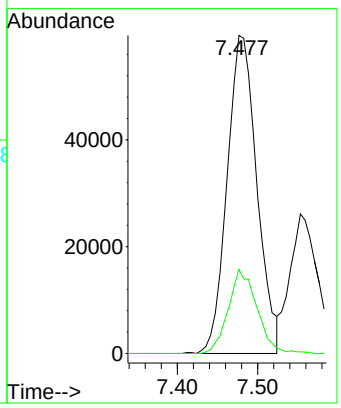
Tgt Ion: 43 Resp: 153642

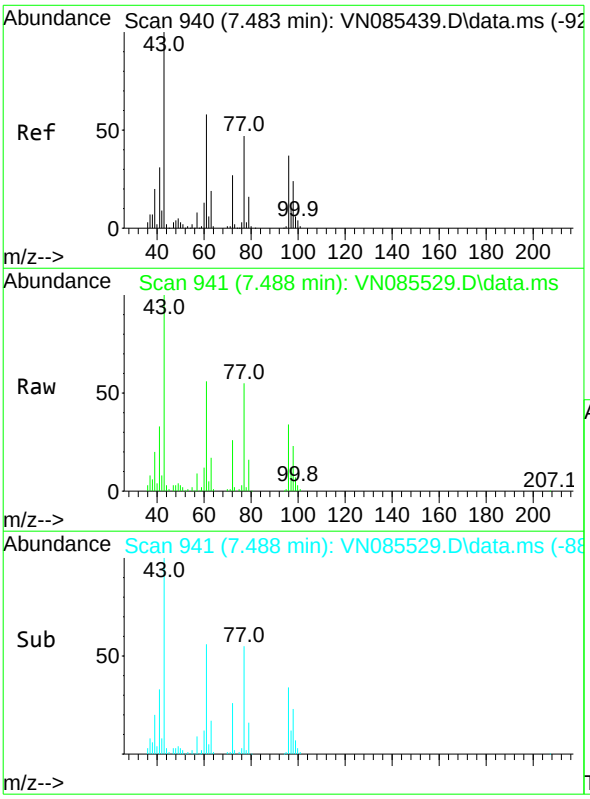
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.4 | 20.2 | 30.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

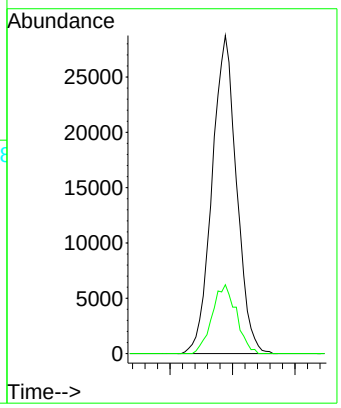


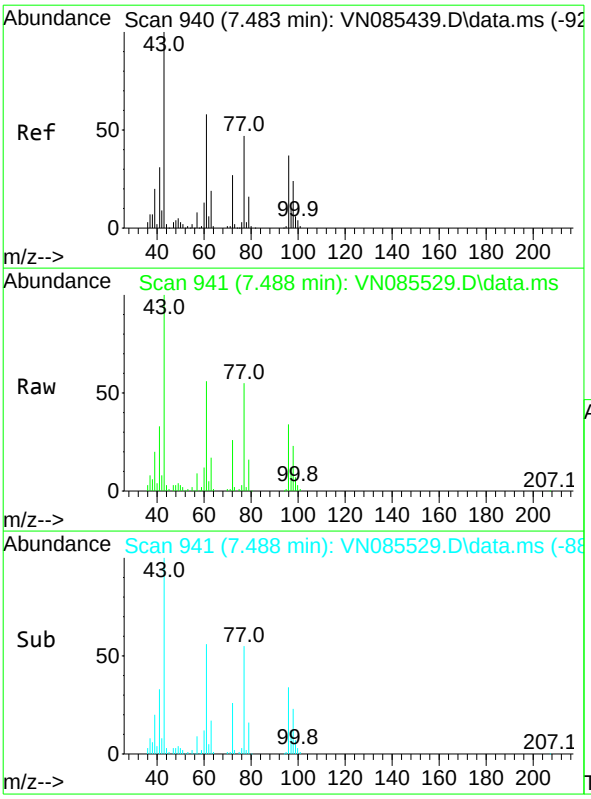




#26
2,2-Dichloropropane
Concen: 22.133 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 77 Resp: 78263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.4 | 10.7 | 32.1 |






#27
cis-1,2-Dichloroethene
Concen: 19.875 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 96 Resp: 49822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 157.4 | 0.0 | 311.8 |
| 98 | 62.7 | 0.0 | 126.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
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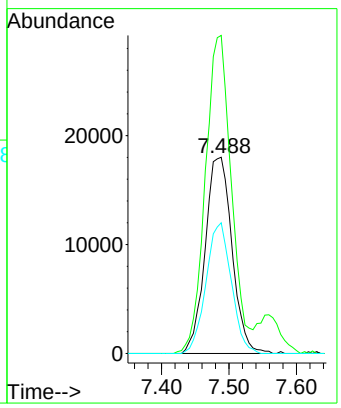
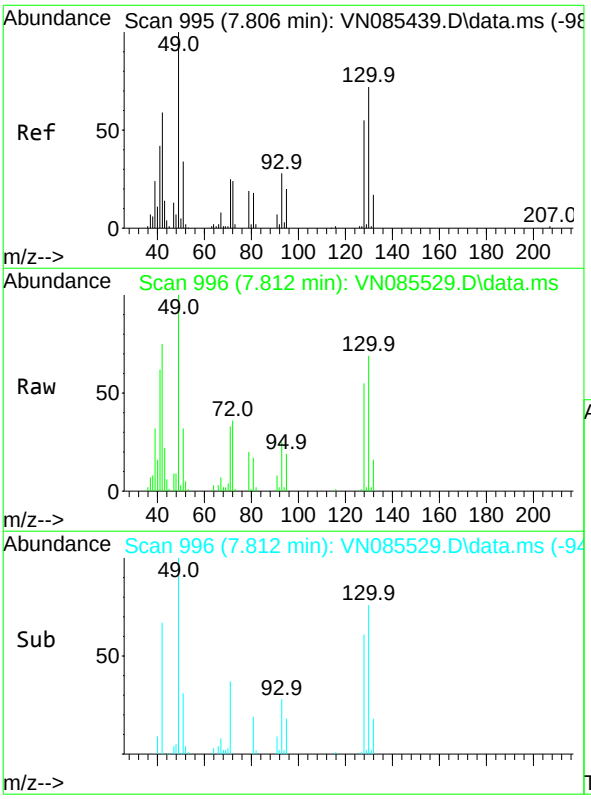
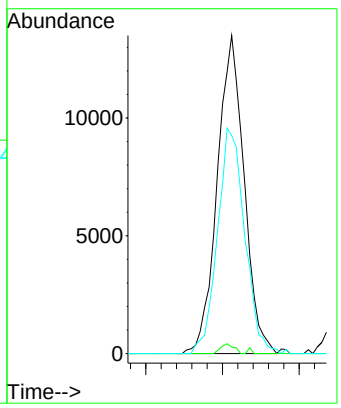


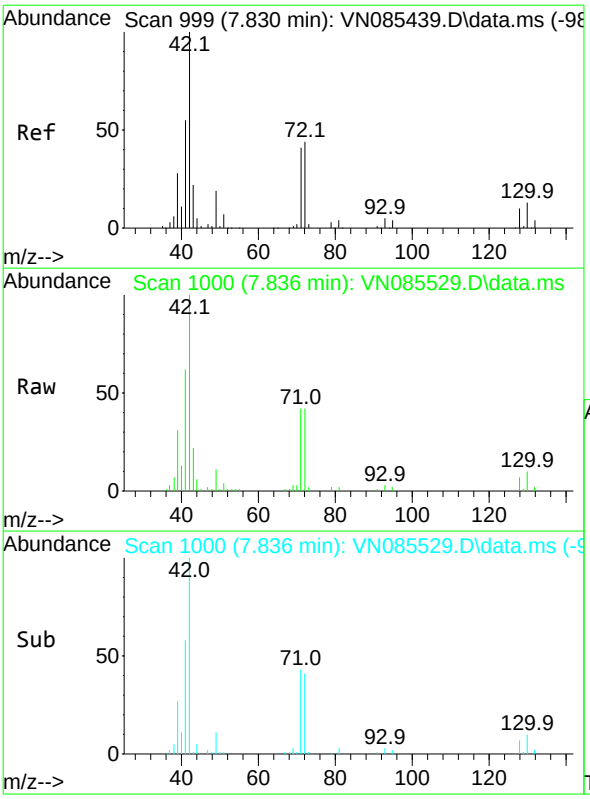




#28
Bromochloromethane
Concen: 16.145 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 49 Resp: 32851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.5 | 0.0 | 4.4 |
| 130 | 72.0 | 55.0 | 82.4 |






#29
Tetrahydrofuran
Concen: 112.971 ug/l
RT: 7.836 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 42 Resp: 102010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.9 | 34.2 | 51.2 |
| 71 | 40.5 | 32.5 | 48.7 |

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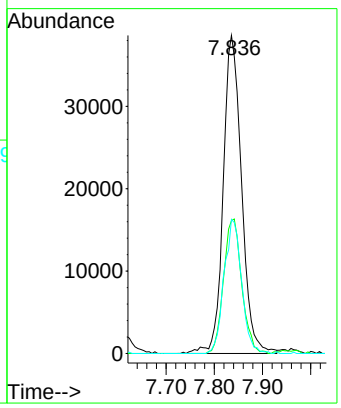
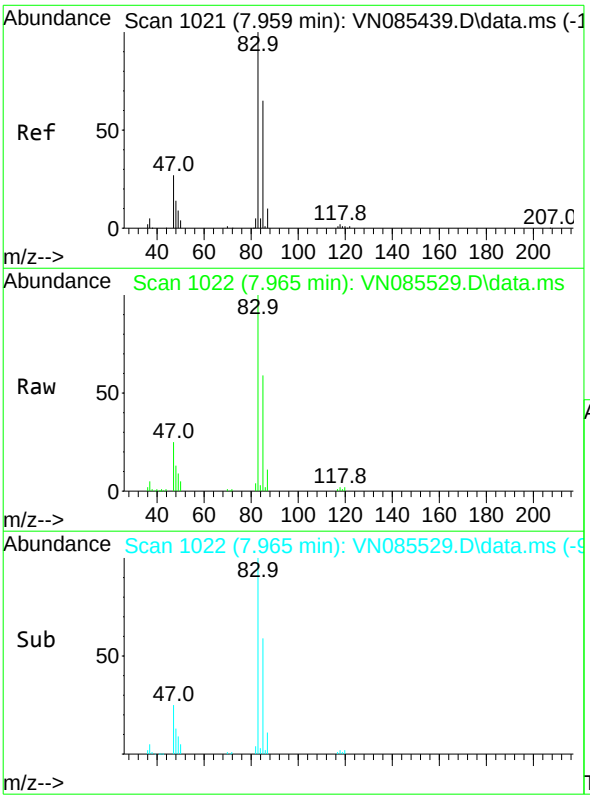
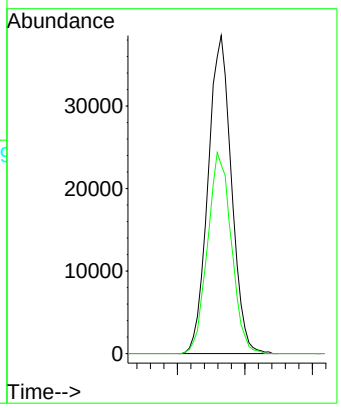


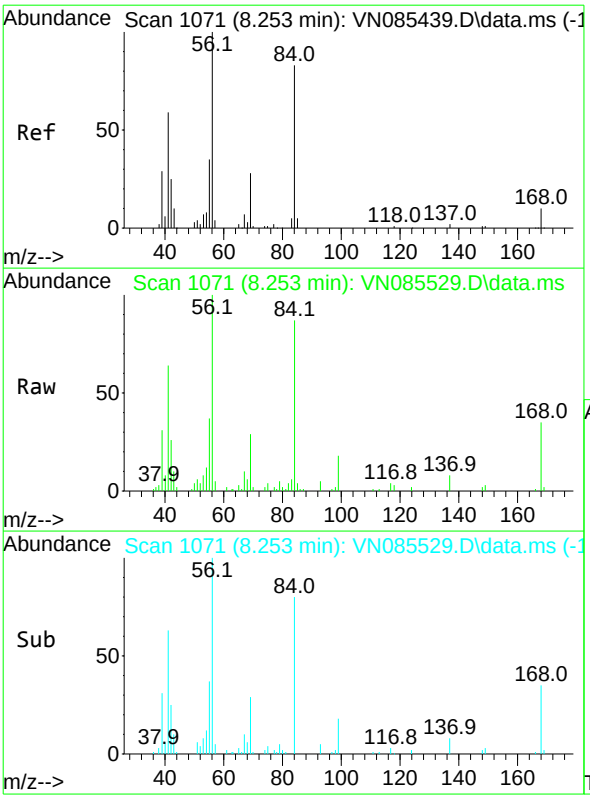




#30
Chloroform
Concen: 20.553 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 83 Resp: 92905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 59.4 | 51.8 | 77.6 |






#31
Cyclohexane
Concen: 17.643 ug/l
RT: 8.253 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 56 Resp: 67069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 29.0 | 22.2 | 33.4 |
| 84 | 84.8 | 66.4 | 99.6 |

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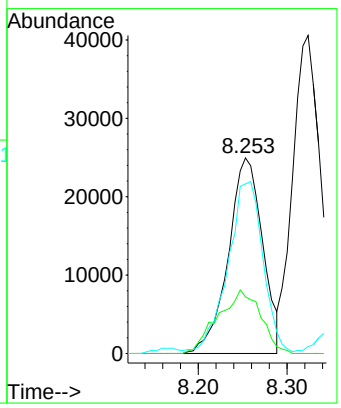
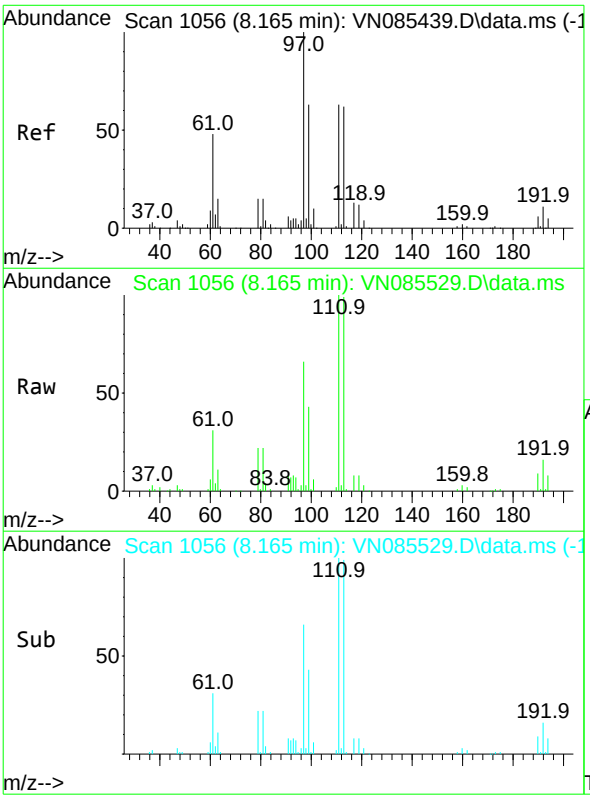
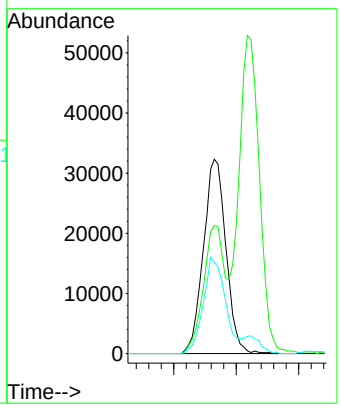


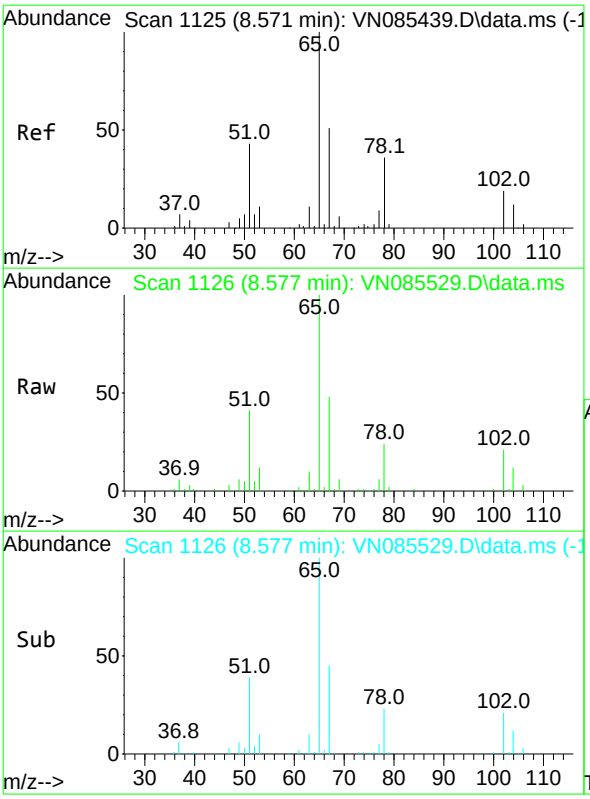




#32
1,1,1-Trichloroethane
Concen: 20.408 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 97 Resp: 80919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 49.8 | 74.6 |
| 61 | 48.7 | 41.4 | 62.2 |






#33
1,2-Dichloroethane-d4
Concen: 51.135 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 65 Resp: 153168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.0 | 0.0 | 101.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
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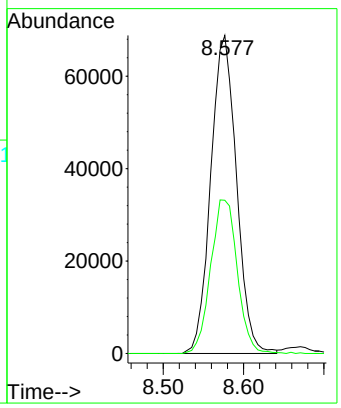
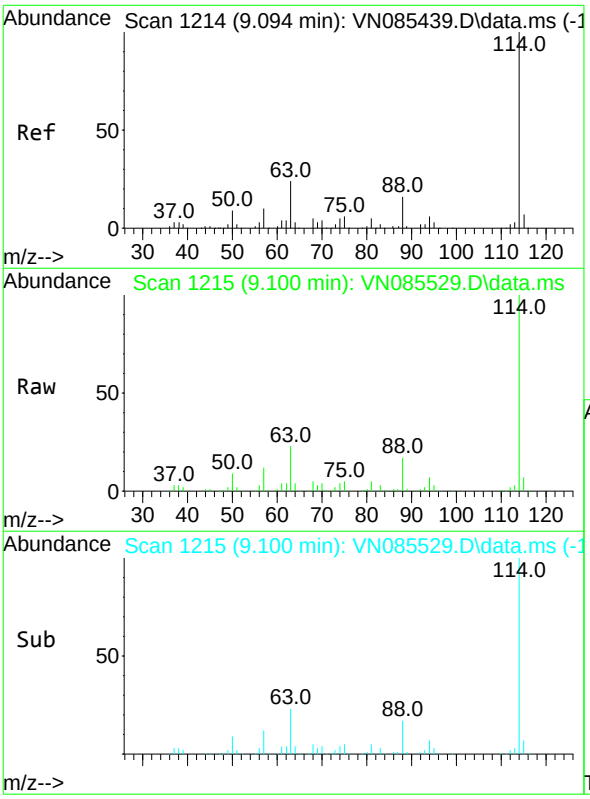
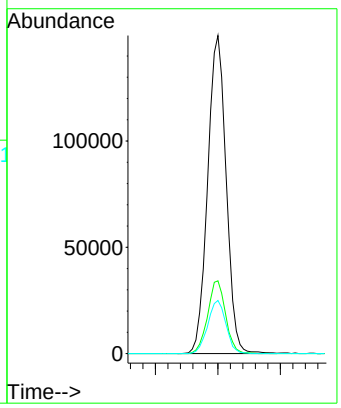


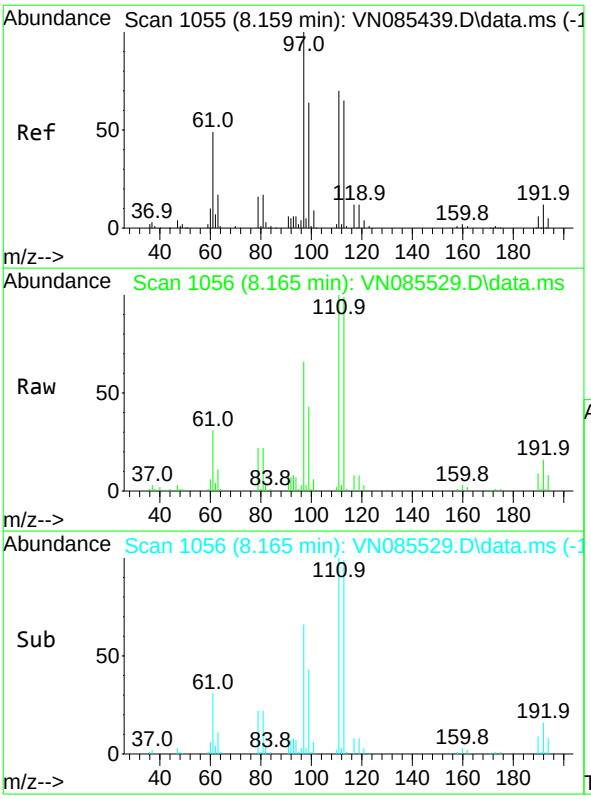




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:114 Resp: 307569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.9 | 0.0 | 47.6 |
| 88 | 16.7 | 0.0 | 32.6 |






#35
Dibromofluoromethane
Concen: 53.225 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:113 Resp: 113571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.6 | 82.7 | 124.1 |
| 192 | 17.7 | 14.3 | 21.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
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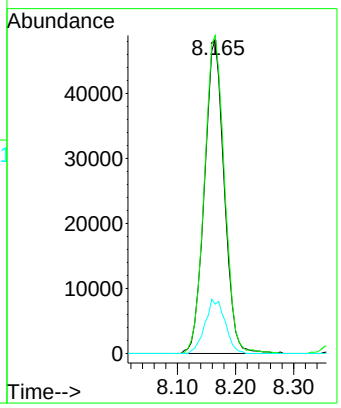
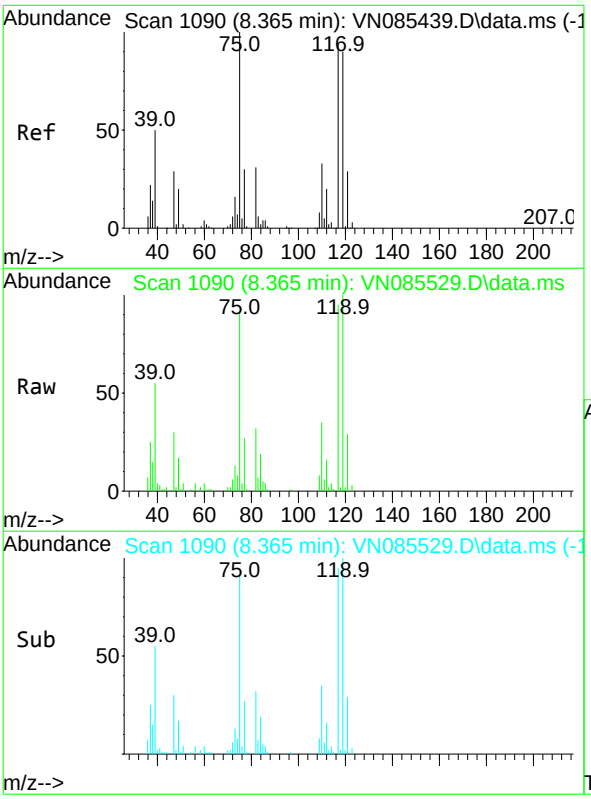
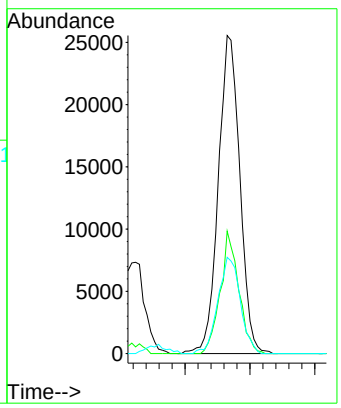


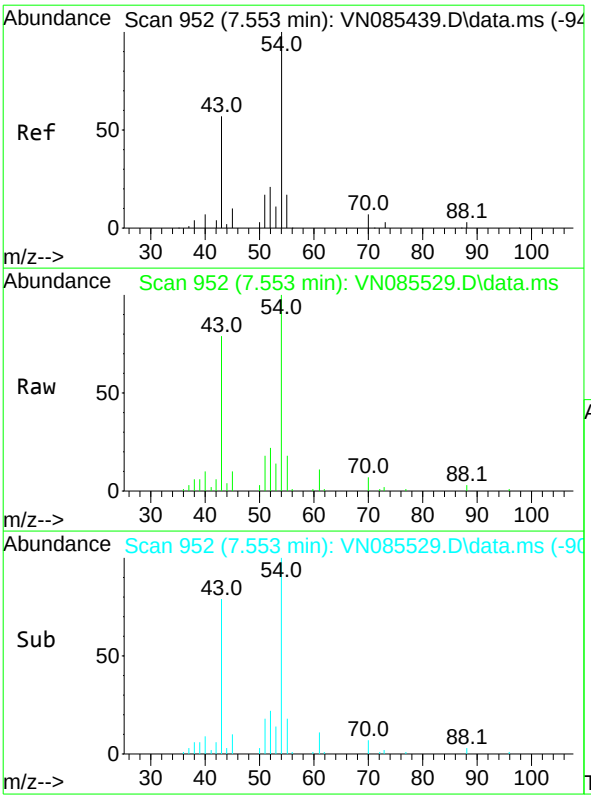




#36
1,1-Dichloropropene
Concen: 19.673 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 75 Resp: 58916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.1 | 16.5 | 49.5 |
| 77 | 31.4 | 24.4 | 36.6 |






#37
Ethyl Acetate
Concen: 20.722 ug/l
RT: 7.553 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 43 Resp: 62638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.1 | 10.9 | 16.3 |
| 70 | 10.3 | 7.5 | 11.3 |

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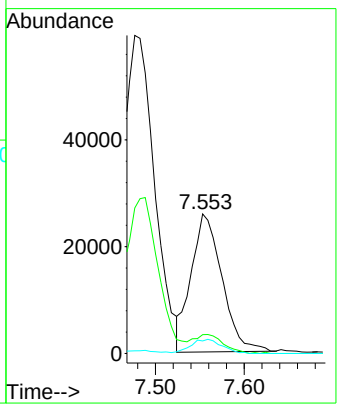
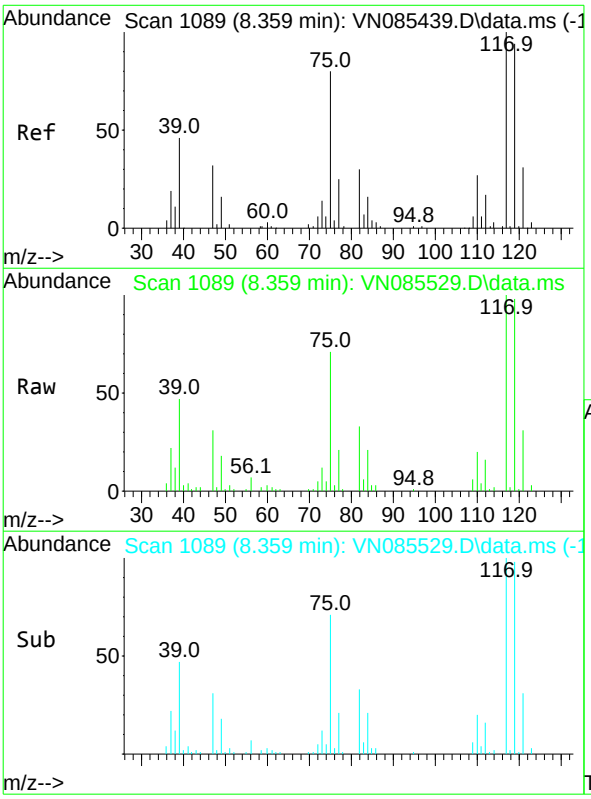
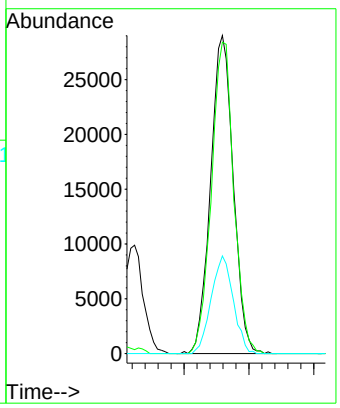


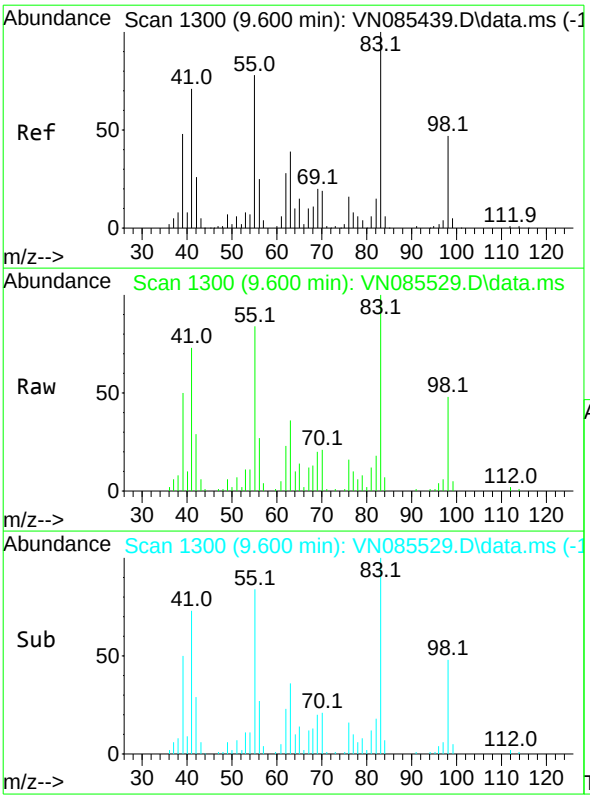




#38
Carbon Tetrachloride
Concen: 20.543 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:117 Resp: 70429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.9 | 75.4 | 113.2 |
| 121 | 30.7 | 24.6 | 37.0 |






#39
Methylcyclohexane
Concen: 18.865 ug/l
RT: 9.600 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 83 Resp: 53089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 83.8 | 62.6 | 94.0 |
| 98 | 47.6 | 37.7 | 56.5 |

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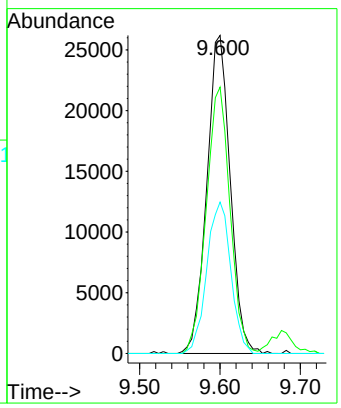
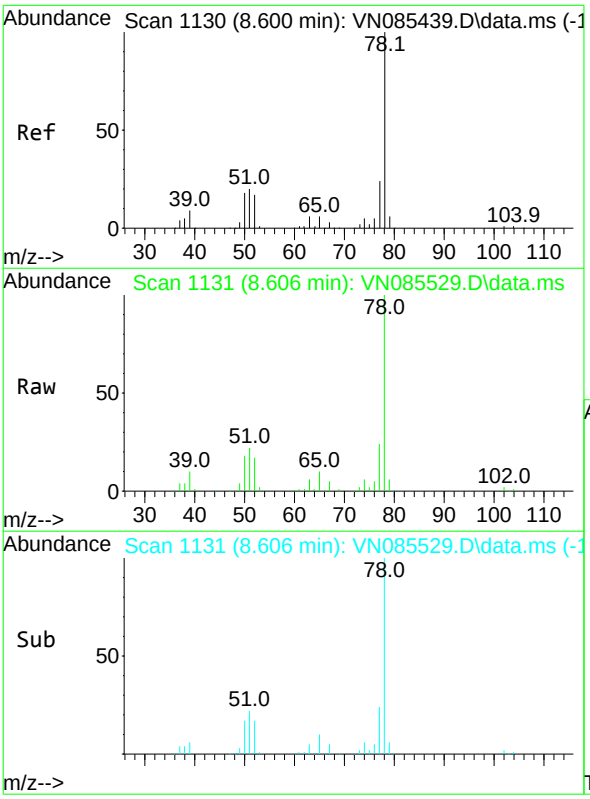
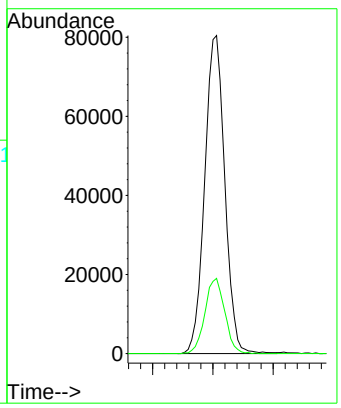


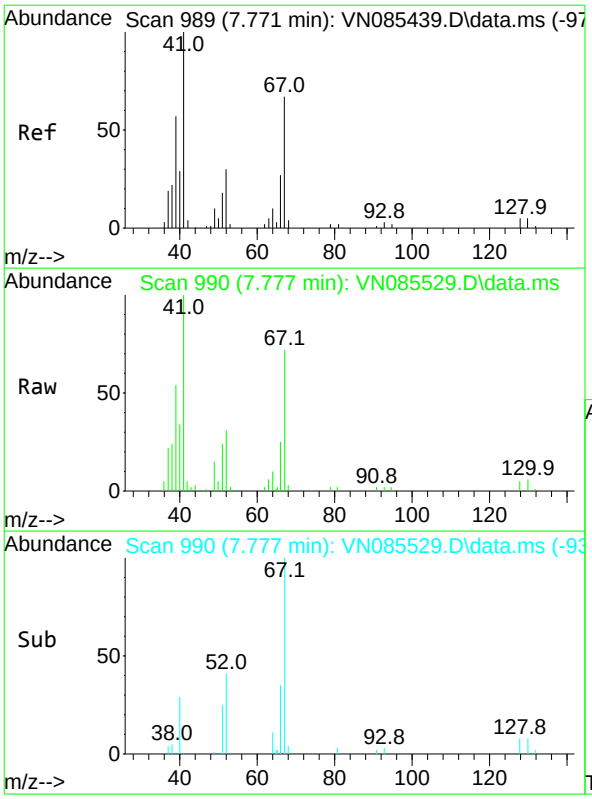




#40
Benzene
Concen: 20.683 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 78 Resp: 186111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 21.410 ug/l
RT: 7.777 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 41 Resp: 33670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.5 | 46.0 | 69.0 |
| 67 | 71.9 | 57.4 | 86.2 |
| 52 | 32.1 | 25.5 | 38.3 |

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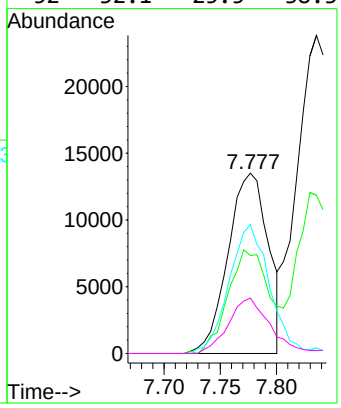
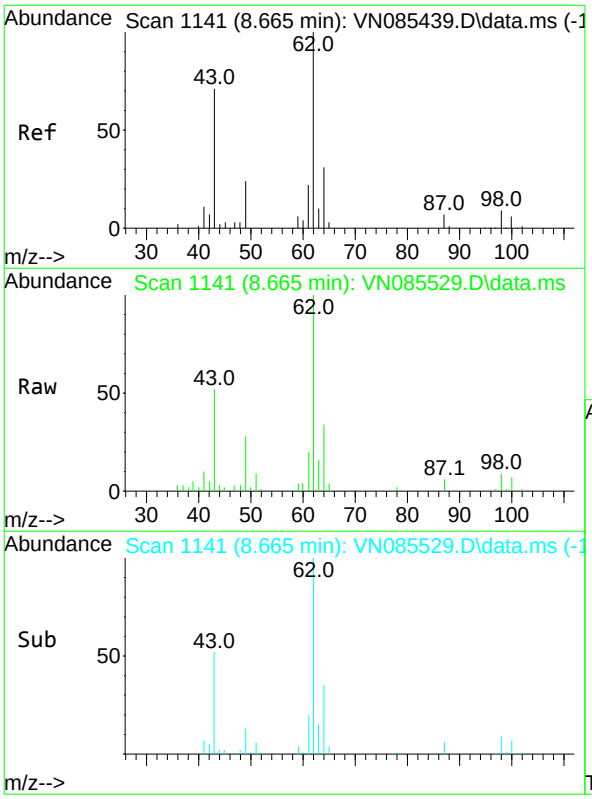
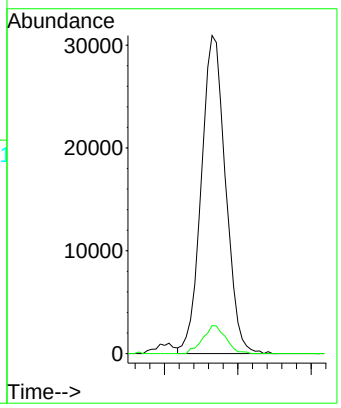


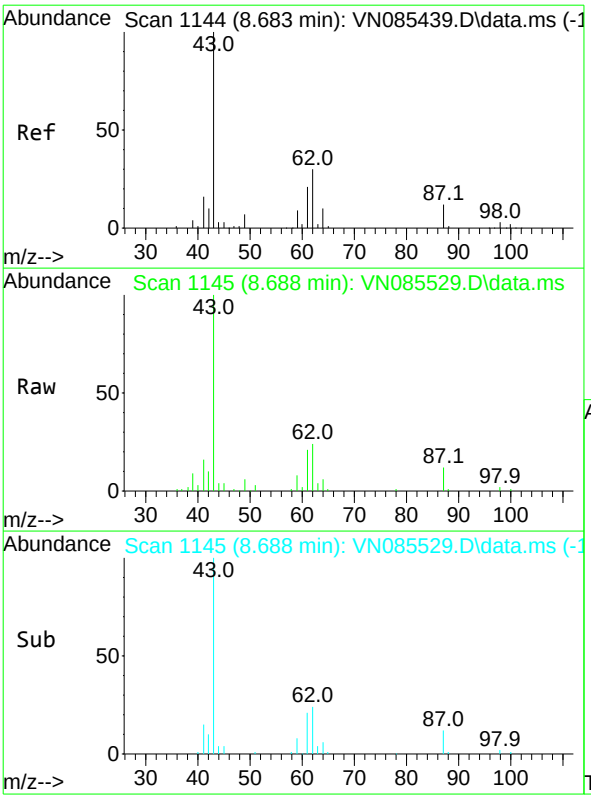




#42
1,2-Dichloroethane
Concen: 20.970 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 62 Resp: 71068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.4 | 0.0 | 17.0 |






#43
Isopropyl Acetate
Concen: 21.686 ug/l
RT: 8.688 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 43 Resp: 105036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 25.2 | 20.7 | 31.1 |
| 87 | 12.1 | 9.8 | 14.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

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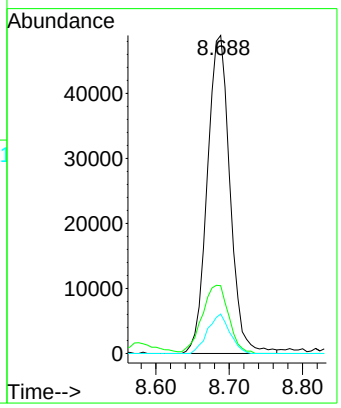
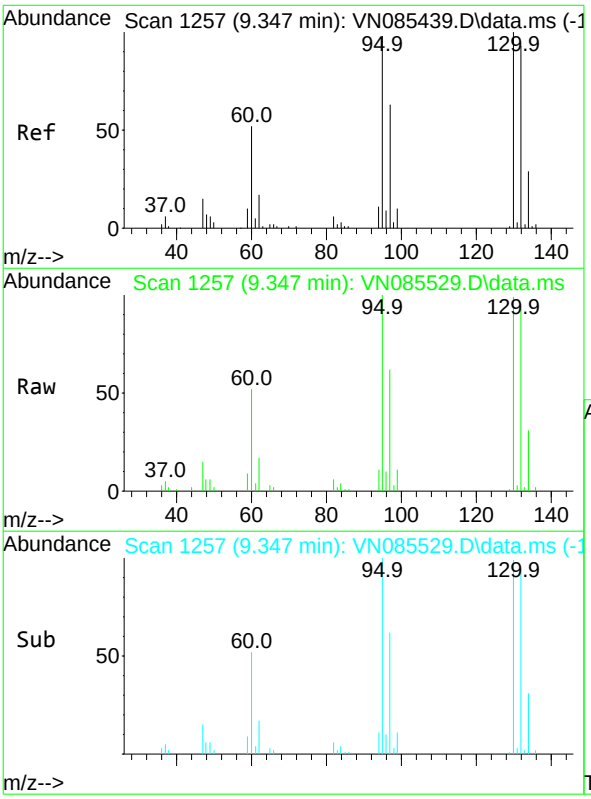
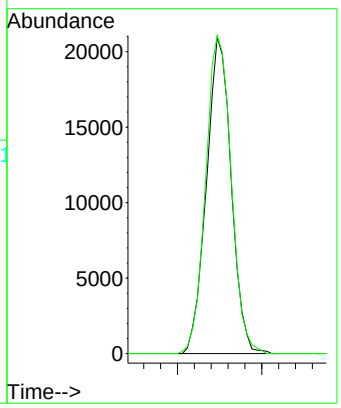


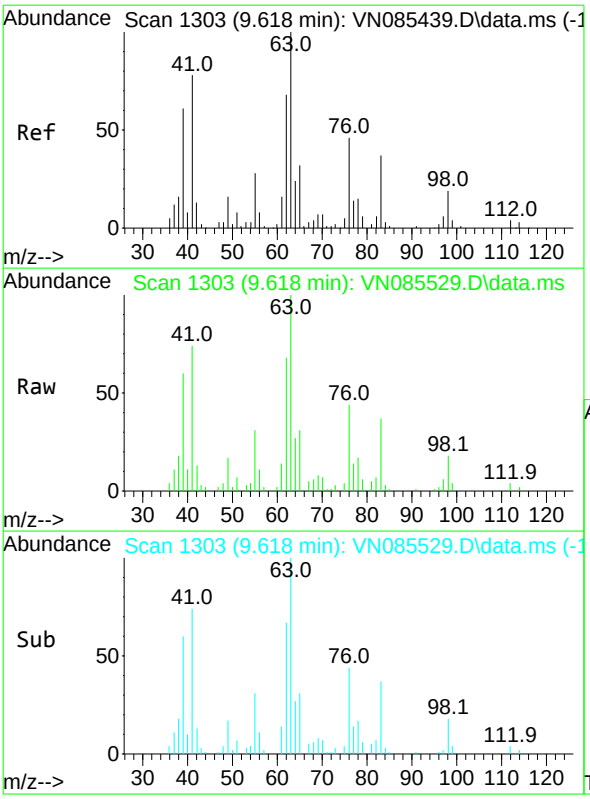




#44
Trichloroethene
Concen: 20.374 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:130 Resp: 42674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.5 | 0.0 | 195.8 |






#45
1,2-Dichloropropane
Concen: 20.743 ug/l
RT: 9.618 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

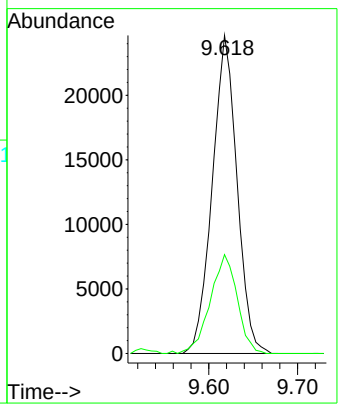
Tgt Ion: 63 Resp: 47674

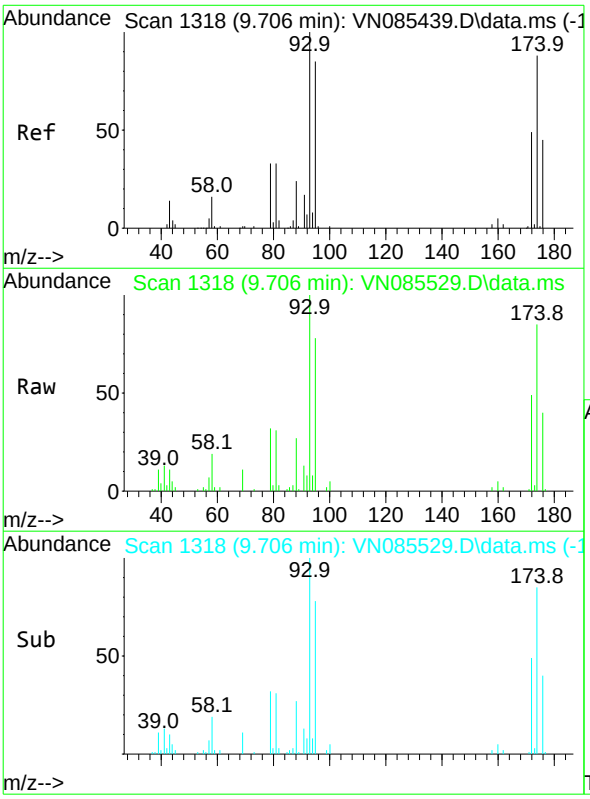
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.1 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

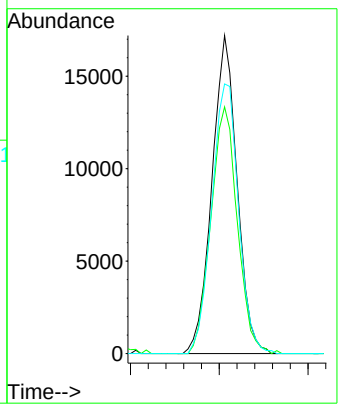


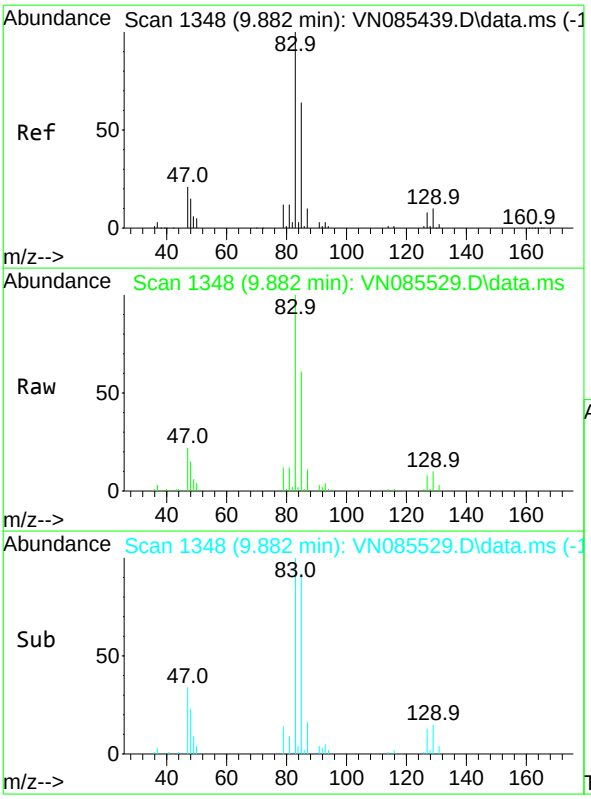




#46
Dibromomethane
Concen: 20.395 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 93 Resp: 33823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.5 | 64.7 | 97.1 |
| 174 | 90.4 | 69.0 | 103.4 |






#47
Bromodichloromethane
Concen: 21.697 ug/l
RT: 9.882 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

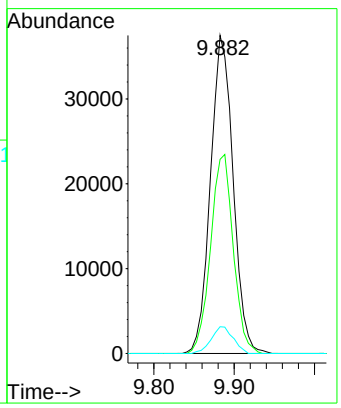
Tgt Ion: 83 Resp: 73309

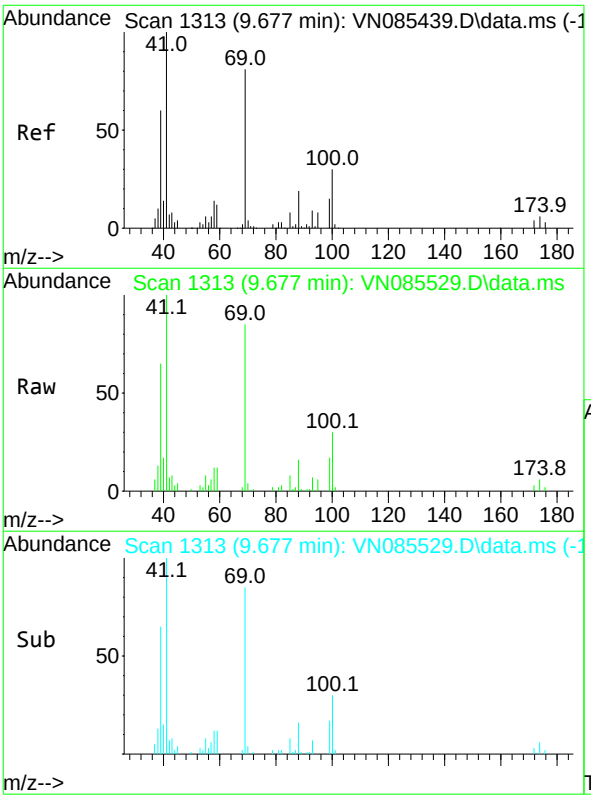
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.0 | 51.2 | 76.8 |
| 127 | 8.4 | 6.5 | 9.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

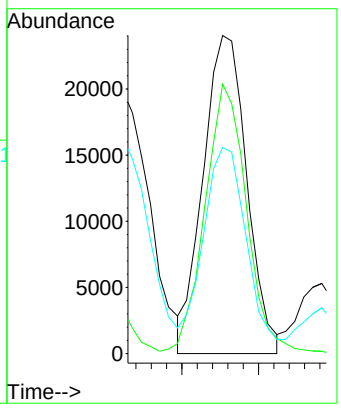


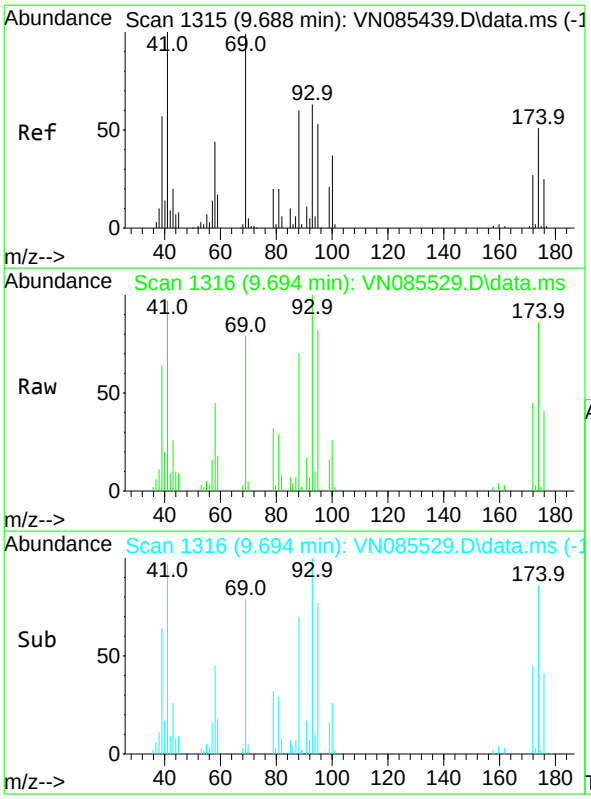




#48
Methyl methacrylate
Concen: 21.823 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 41 Resp: 47567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 81.0 | 64.7 | 97.1 |
| 39 | 65.5 | 49.0 | 73.6 |






#49
1,4-Dioxane
Concen: 420.430 ug/l
RT: 9.694 min Scan# 13
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

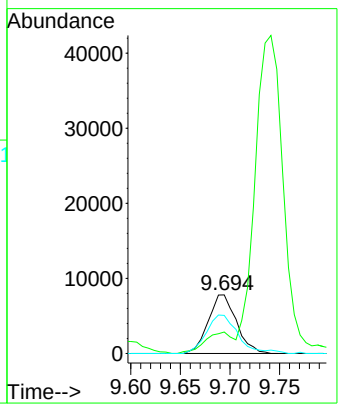
Tgt Ion: 88 Resp: 15432

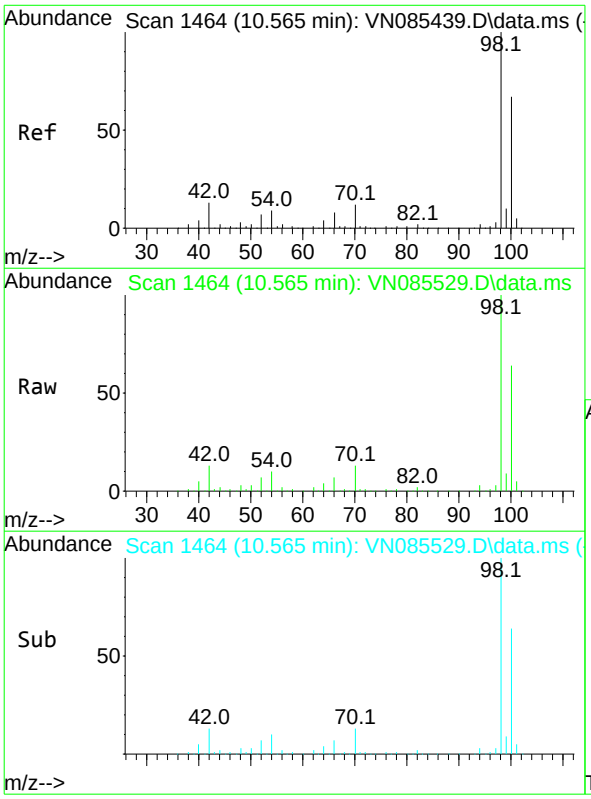
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 37.0 | 26.6 | 39.8 |
| 58 | 74.0 | 59.5 | 89.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

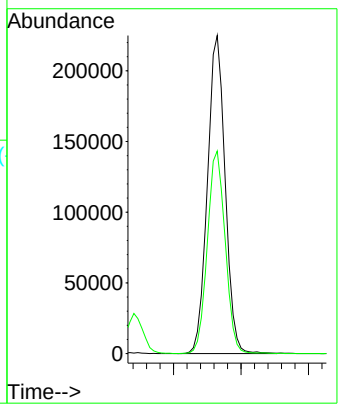


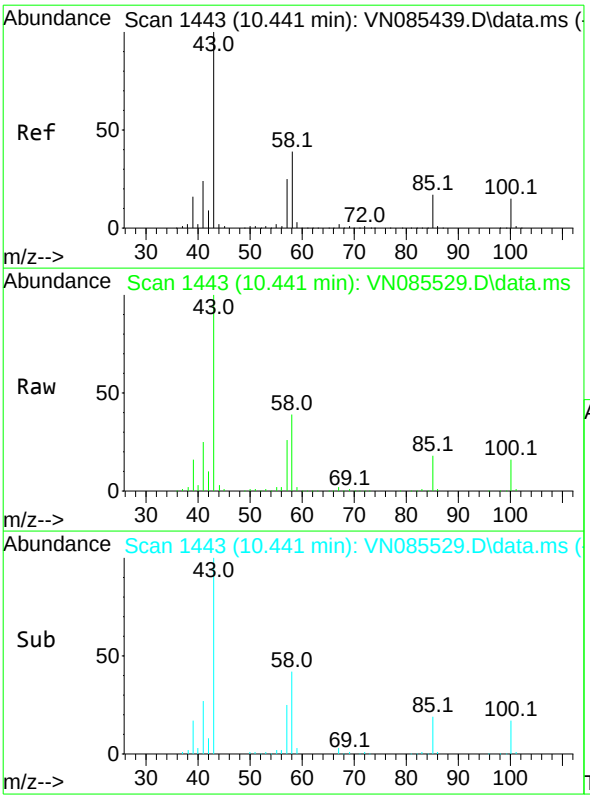




#50
Toluene-d8
Concen: 54.088 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 98 Resp: 410056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.1 | 52.2 | 78.4 |






#51
4-Methyl-2-Pentanone
Concen: 115.555 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 43 Resp: 324778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.1 | 30.5 | 45.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
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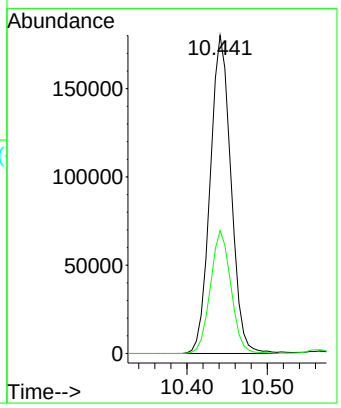
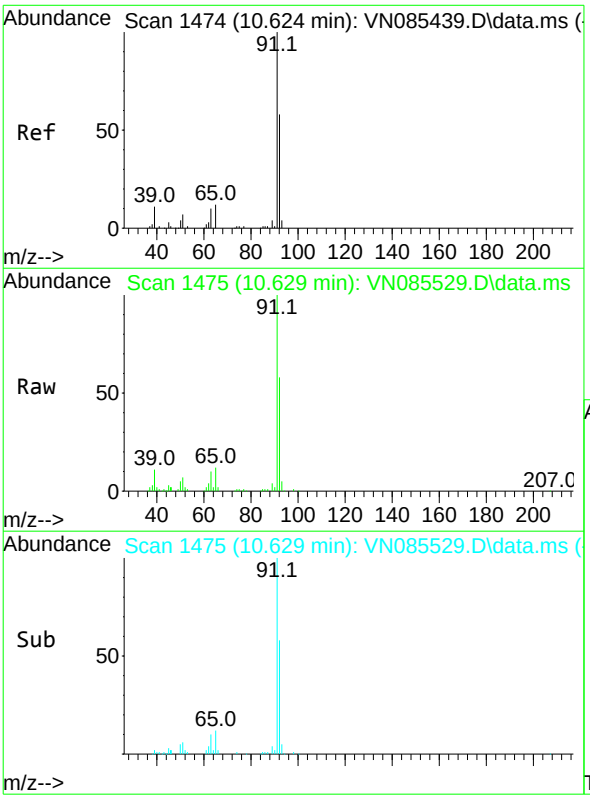
Supervised By :Semsettin Yesilyurt 01/29/2025

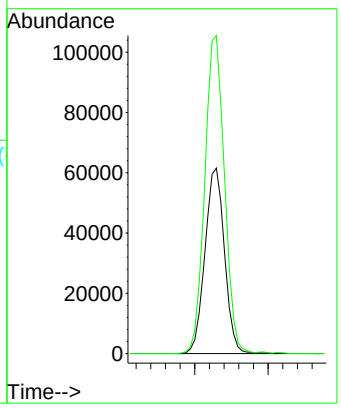


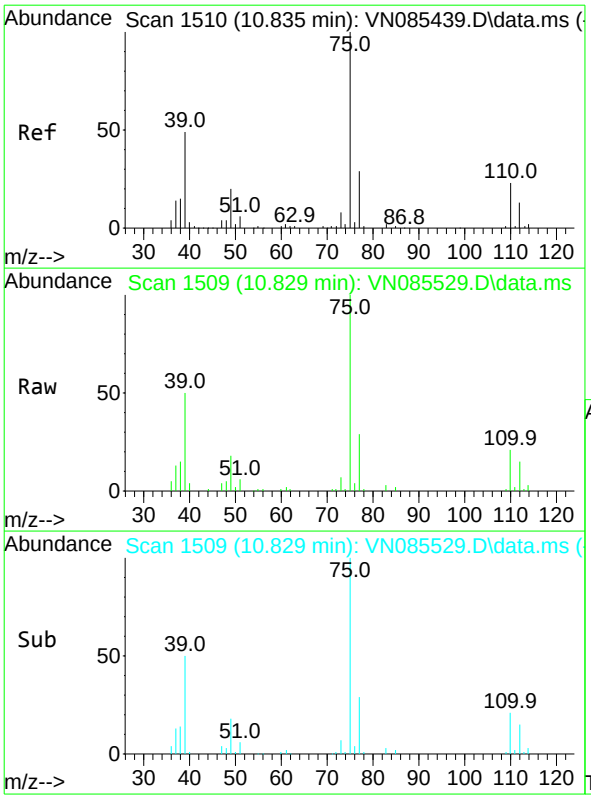




#52
Toluene
Concen: 21.864 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 92 Resp: 113994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.4 | 139.2 | 208.8 |






#53
t-1,3-Dichloropropene
Concen: 21.398 ug/l
RT: 10.829 min Scan# 15
Delta R.T. -0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 75 Resp: 68322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.3 | 23.5 | 35.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
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Reviewed By :John Carlone 01/29/2025
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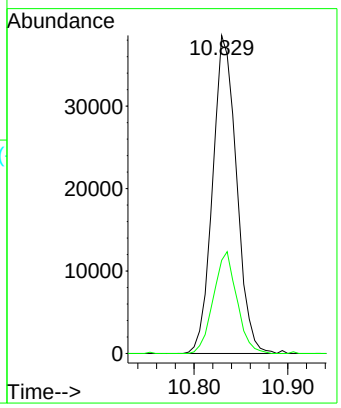
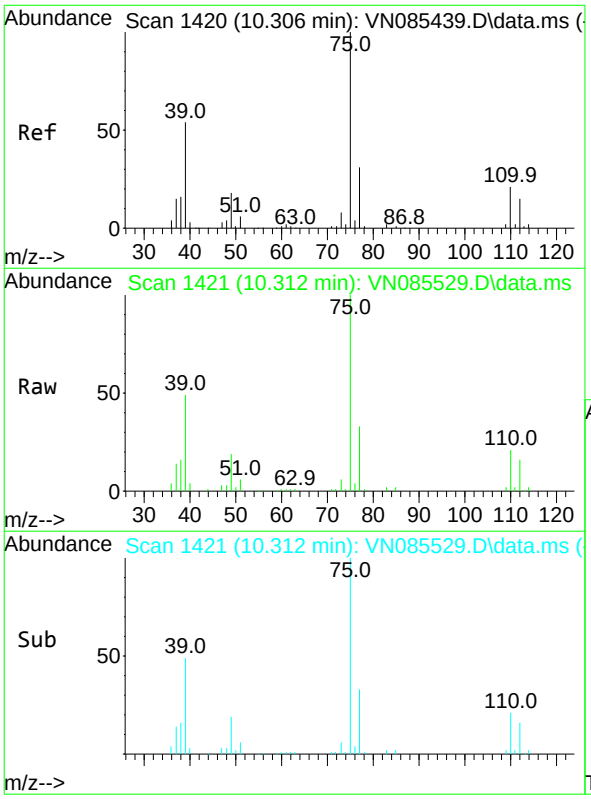
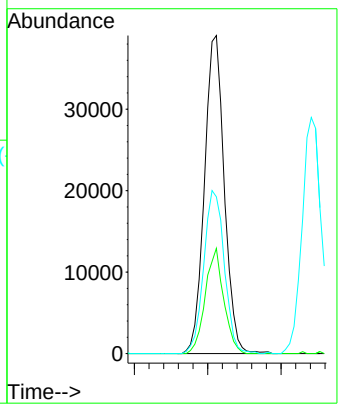


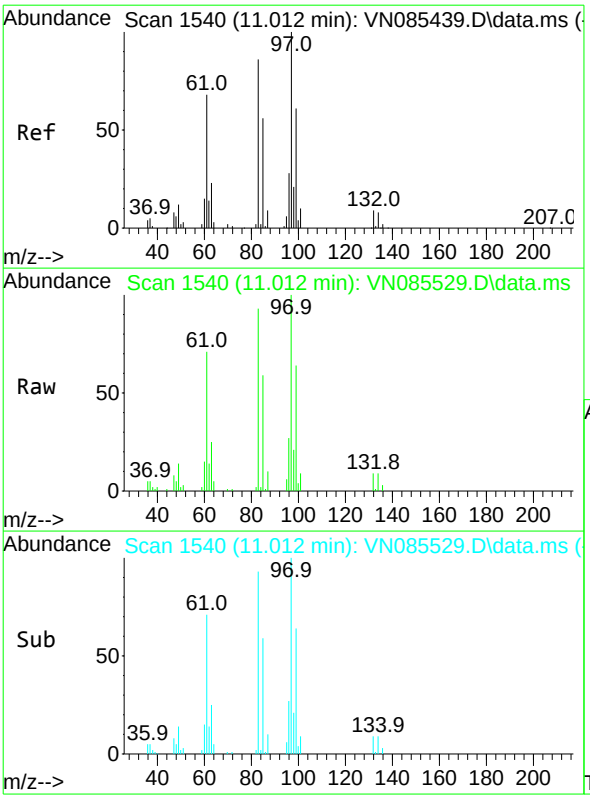




#54
cis-1,3-Dichloropropene
Concen: 21.530 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 75 Resp: 73429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.1 | 25.0 | 37.4 |
| 39 | 49.3 | 43.1 | 64.7 |






#55
1,1,2-Trichloroethane
Concen: 21.912 ug/l
RT: 11.012 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

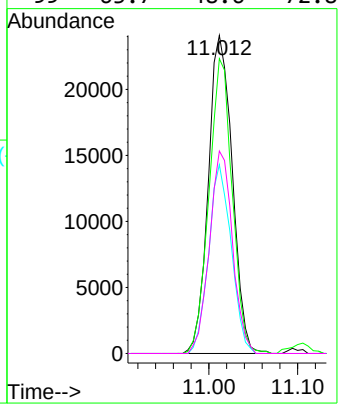
Tgt Ion: 97 Resp: 45212

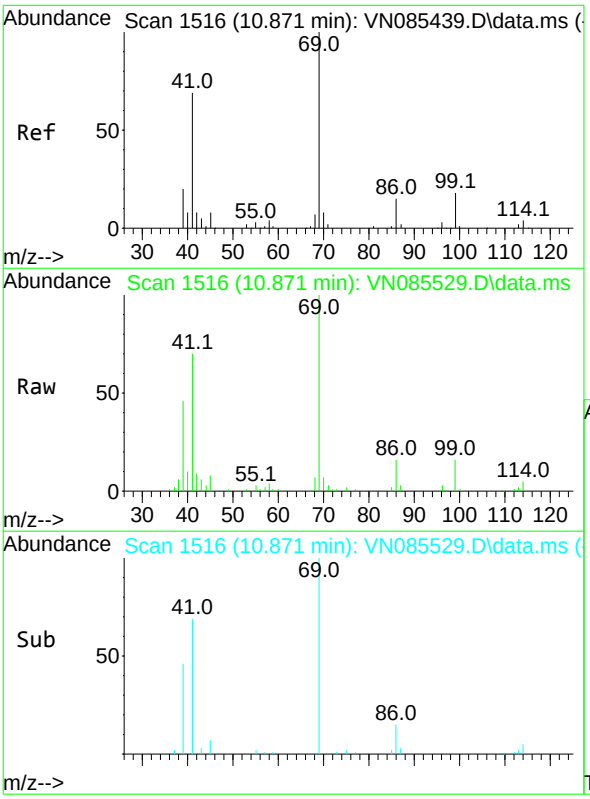
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 92.7 | 69.0 | 103.6 |
| 85 | 59.4 | 44.6 | 66.8 |
| 99 | 63.7 | 48.6 | 72.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

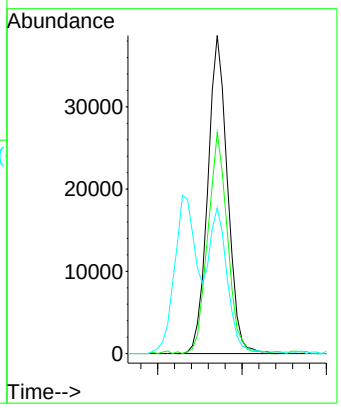


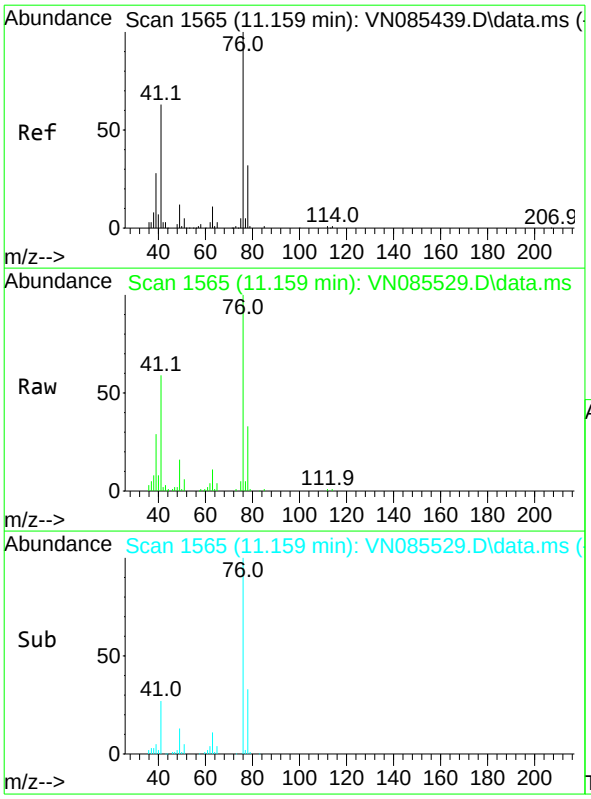




#56
Ethyl methacrylate
Concen: 19.281 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 69 Resp: 62727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 69.3 | 54.6 | 82.0 |
| 39 | 42.9 | 32.4 | 48.6 |






#57
1,3-Dichloropropane
Concen: 21.915 ug/l
RT: 11.159 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 76 Resp: 78623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.0 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
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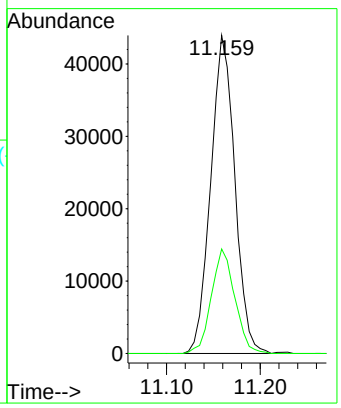
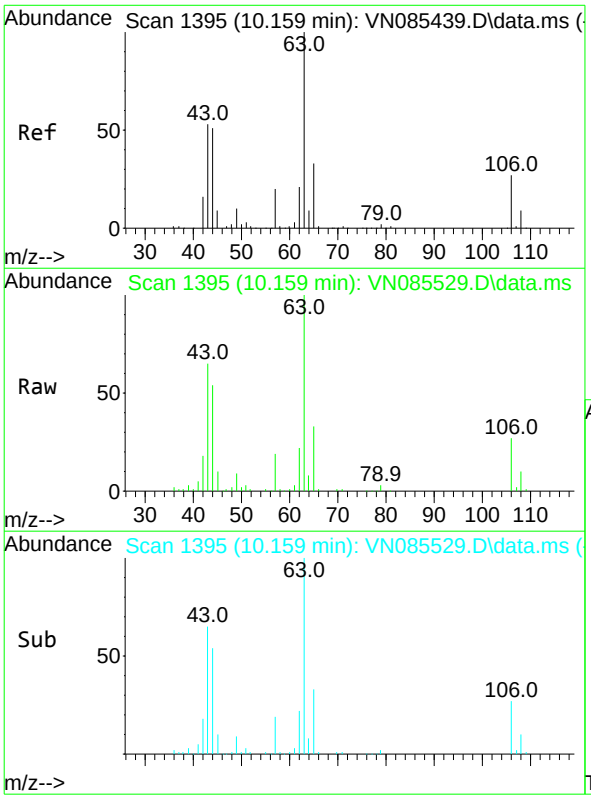
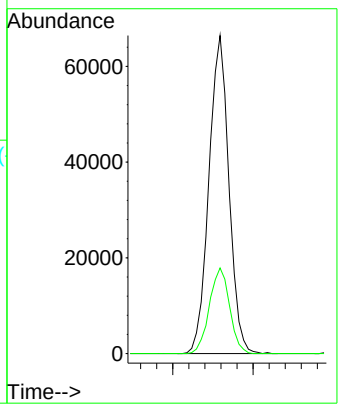


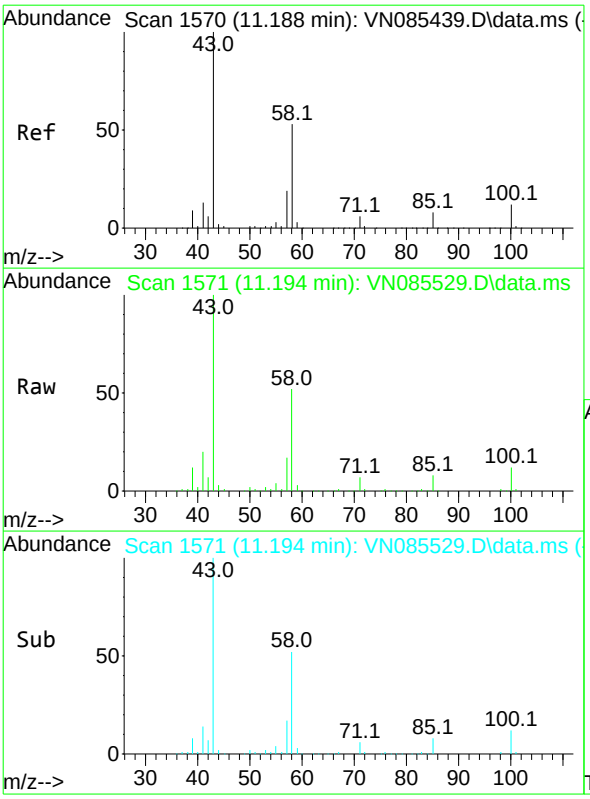




#58
2-Chloroethyl Vinyl ether
Concen: 87.817 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 63 Resp: 114984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.1 | 21.6 | 32.4 |






#59
2-Hexanone
Concen: 118.574 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 43 Resp: 234494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 51.0 | 26.2 | 78.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
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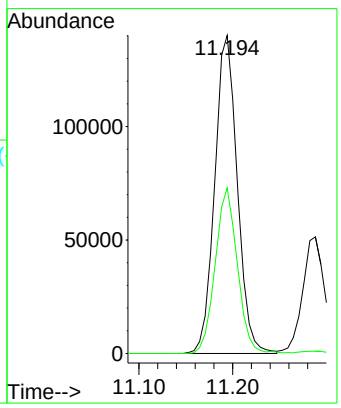
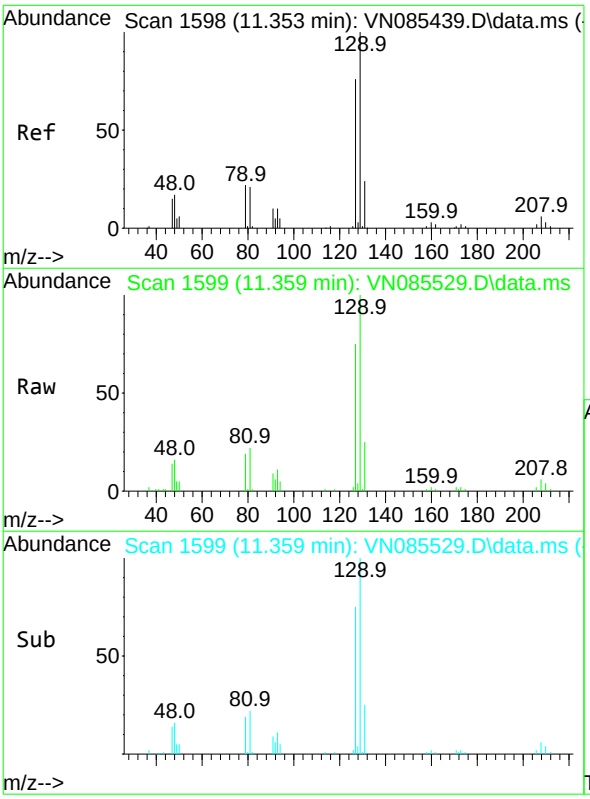
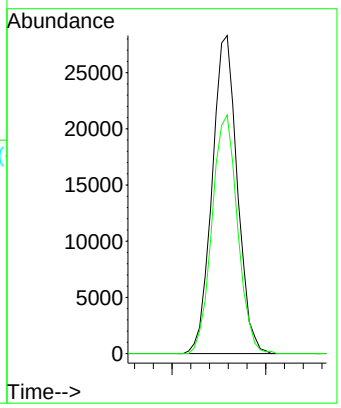


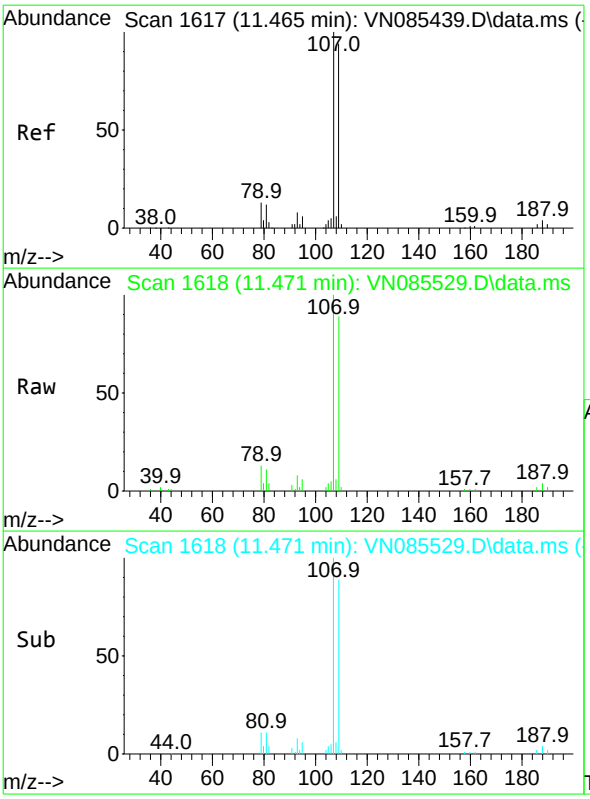




#60
Dibromochloromethane
Concen: 21.210 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:129 Resp: 52835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 75.9 | 38.6 | 115.8 |






#61
1,2-Dibromoethane
Concen: 20.625 ug/l
RT: 11.471 min Scan# 16
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

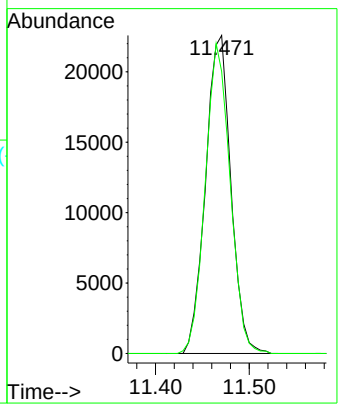
Tgt Ion:107 Resp: 42361

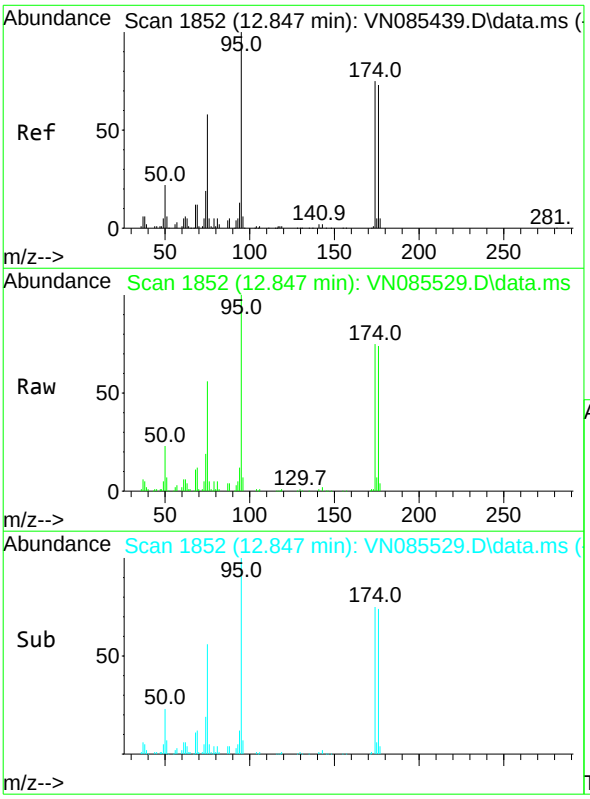
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.9 | 75.9 | 113.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

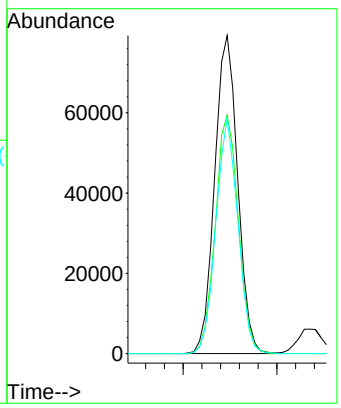


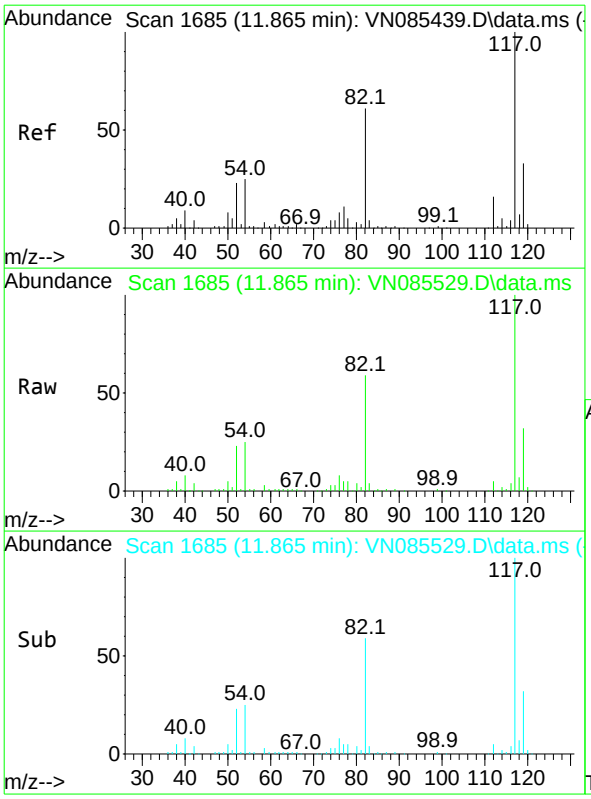




#62
4-Bromofluorobenzene
Concen: 52.029 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 95 Resp: 134929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.1 | 0.0 | 145.0 |
| 176 | 70.9 | 0.0 | 142.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

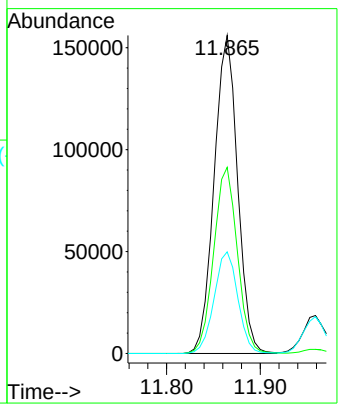
Tgt Ion:117 Resp: 271043

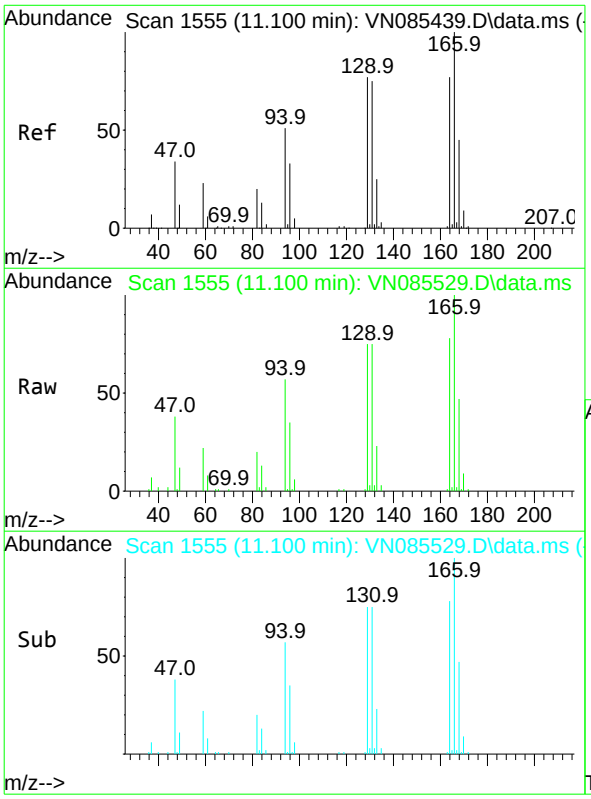
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.5 | 48.6 | 72.8 |
| 119 | 31.9 | 26.6 | 39.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

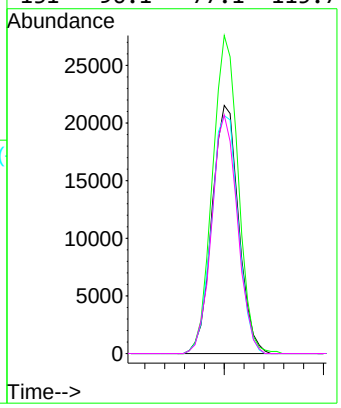


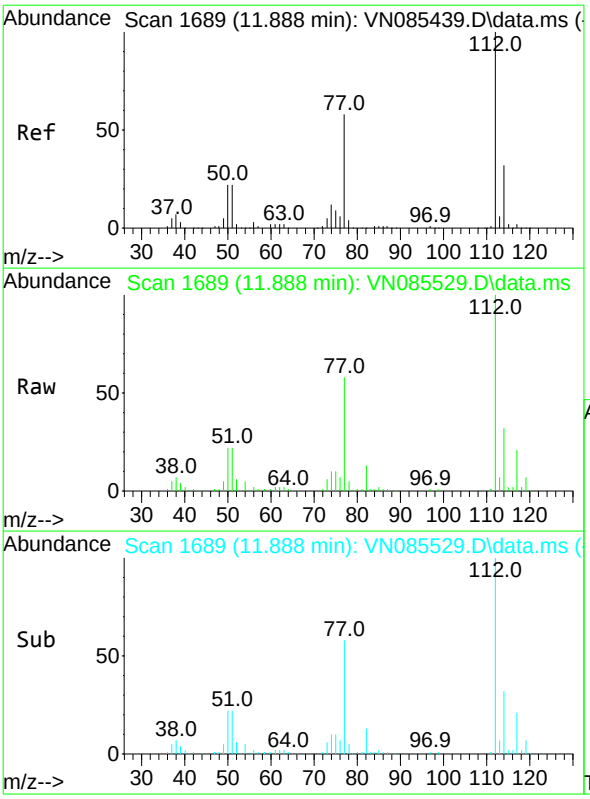




#64
Tetrachloroethene
Concen: 21.658 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:164 Resp: 40019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.2 | 103.4 | 155.2 |
| 129 | 95.9 | 79.2 | 118.8 |
| 131 | 96.1 | 77.1 | 115.7 |






#65
Chlorobenzene
Concen: 20.586 ug/l
RT: 11.888 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:112 Resp: 122235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.6 | 25.3 | 37.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
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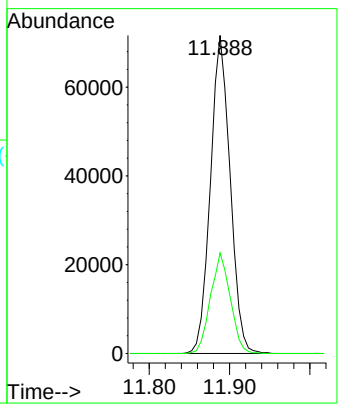
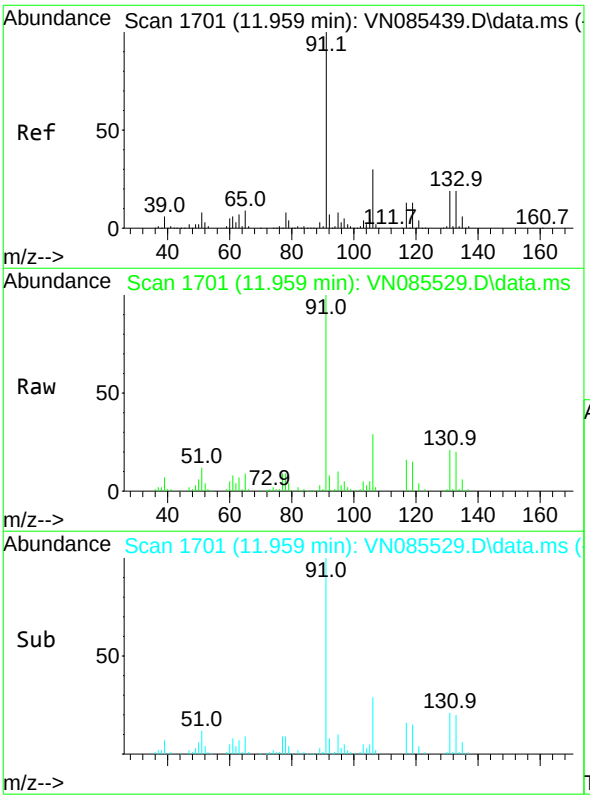
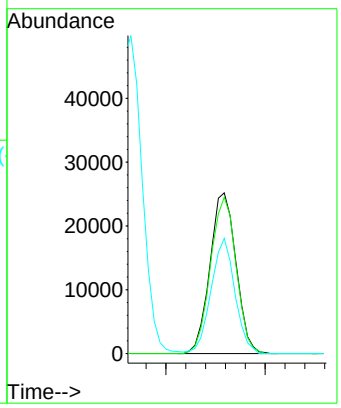


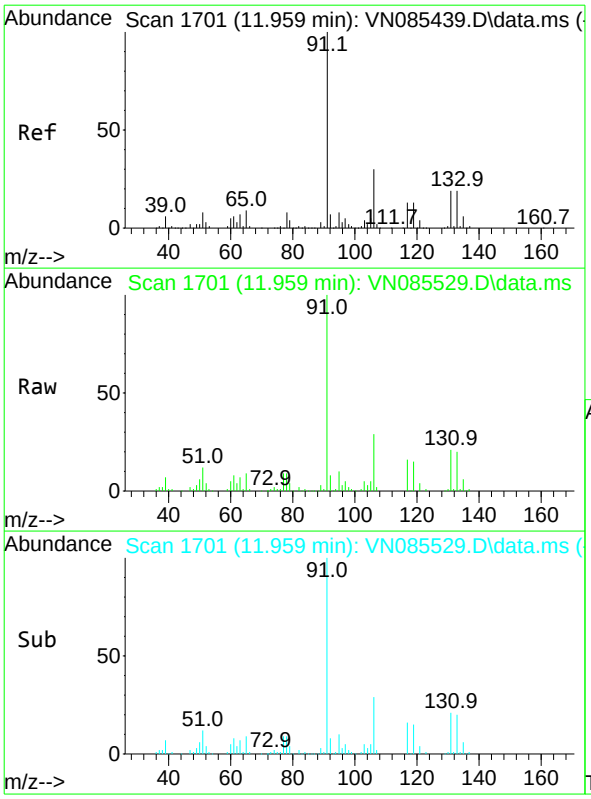




#66
1,1,1,2-Tetrachloroethane
Concen: 21.124 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:131 Resp: 46034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.1 | 47.4 | 142.3 |
| 119 | 65.4 | 33.1 | 99.5 |






#67
Ethyl Benzene
Concen: 20.797 ug/l
RT: 11.959 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 91 Resp: 201123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.8 | 23.8 | 35.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
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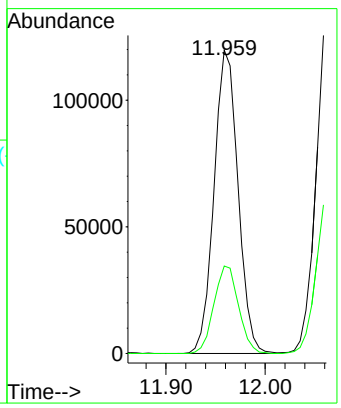
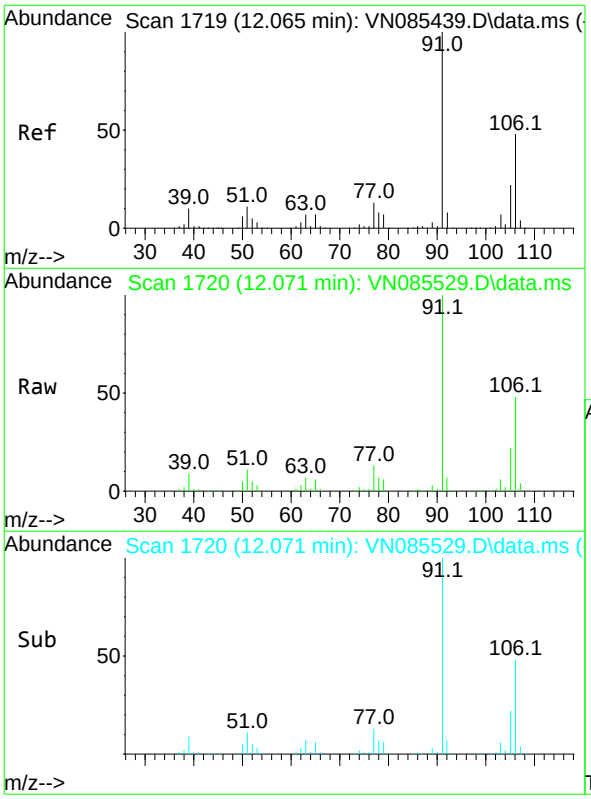
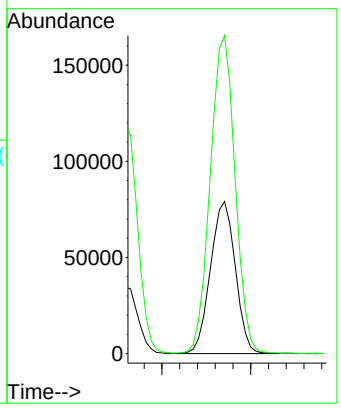


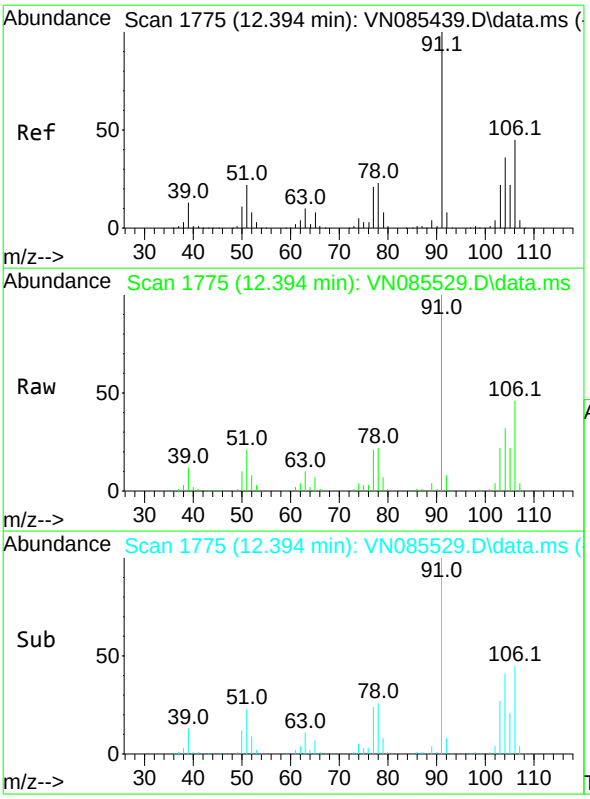




#68
m/p-Xylenes
Concen: 43.106 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:106 Resp: 154069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.4 | 167.7 | 251.5 |






#69
o-Xylene
Concen: 20.943 ug/l
RT: 12.394 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:106 Resp: 71535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.7 | 110.4 | 331.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
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Reviewed By :John Carlone 01/29/2025
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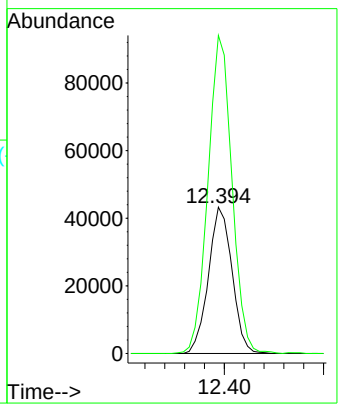
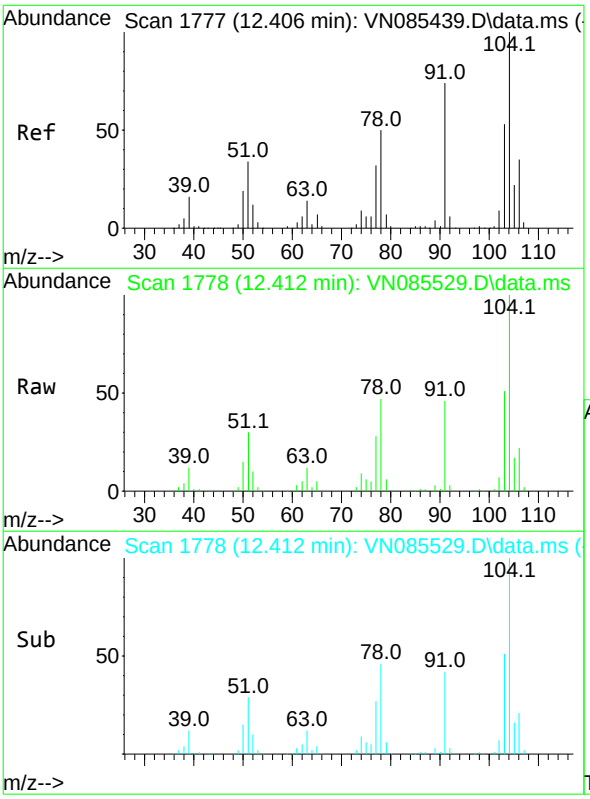
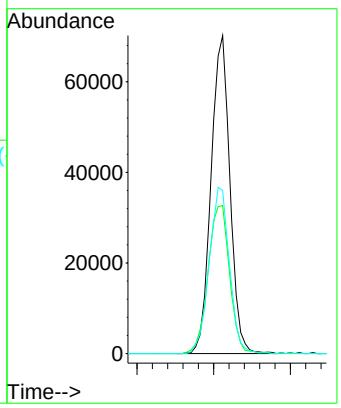


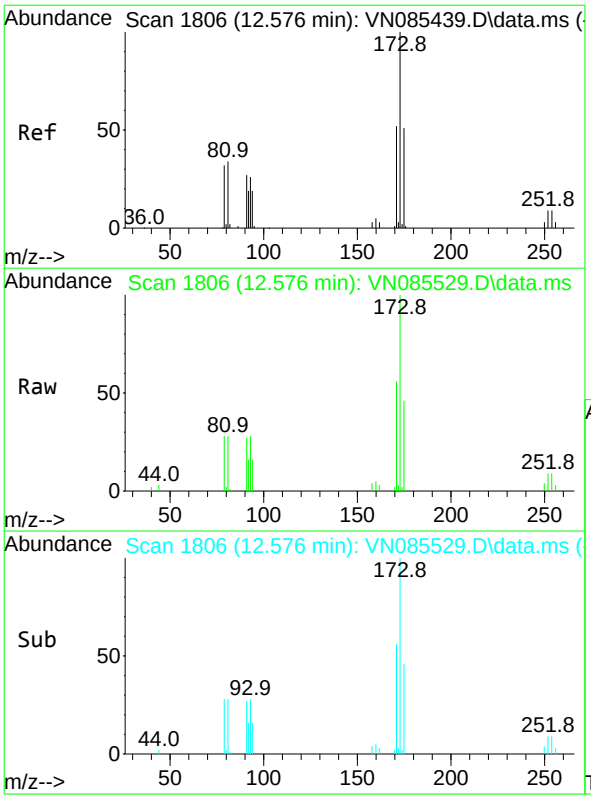




#70
Styrene
Concen: 21.250 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:104 Resp: 120125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.0 | 42.5 | 63.7 |
| 103 | 55.9 | 43.8 | 65.8 |






#71
Bromoform
Concen: 22.516 ug/l
RT: 12.576 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:173 Resp: 35108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.0 | 24.4 | 73.2 |
| 254 | 0.0 | 0.0 | 0.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
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Reviewed By :John Carlone 01/29/2025
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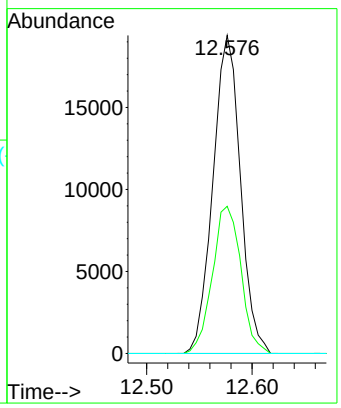
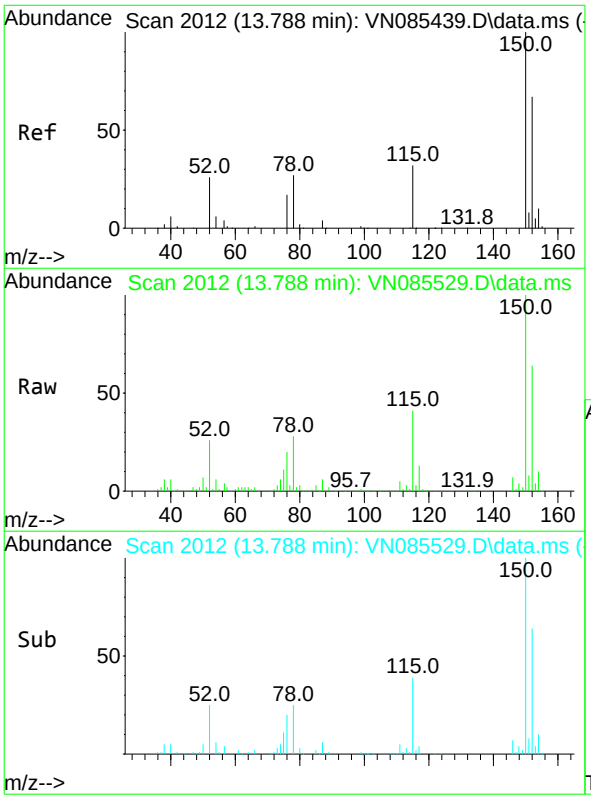
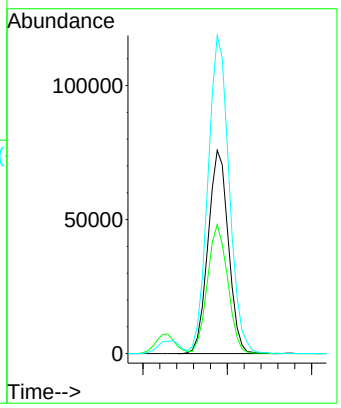


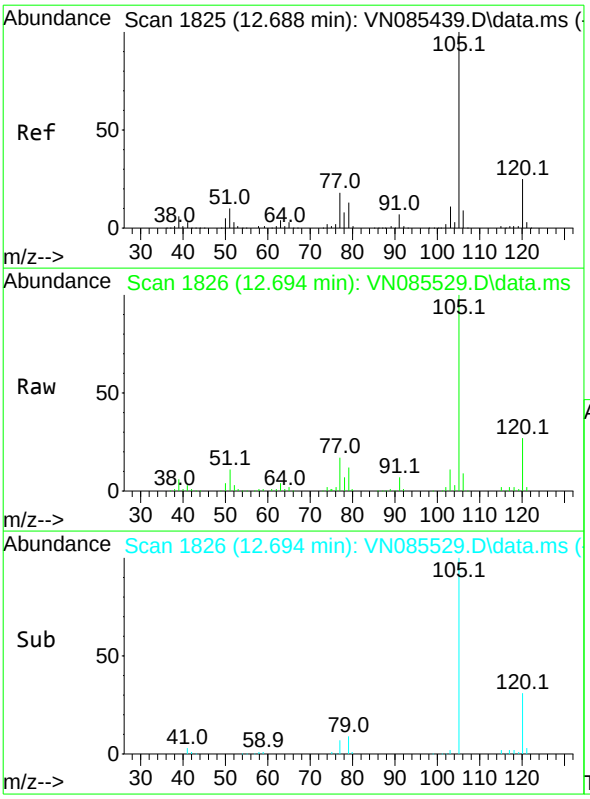




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:152 Resp: 126721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 63.7 | 31.1 | 93.3 |
| 150 | 163.7 | 0.0 | 343.6 |






#73
Isopropylbenzene
Concen: 20.880 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:105 Resp: 178577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.7 | 12.8 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
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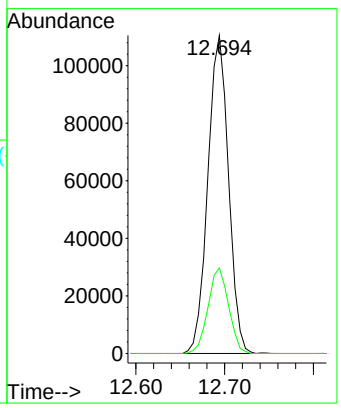
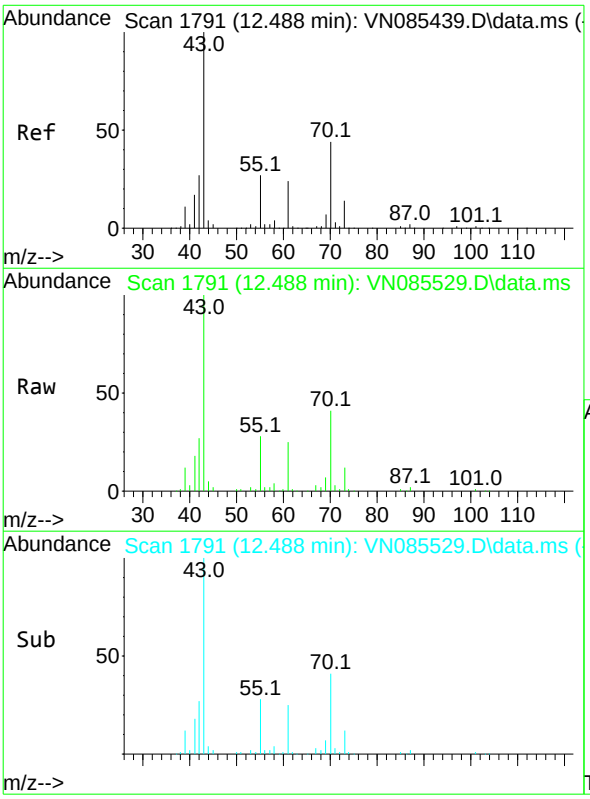
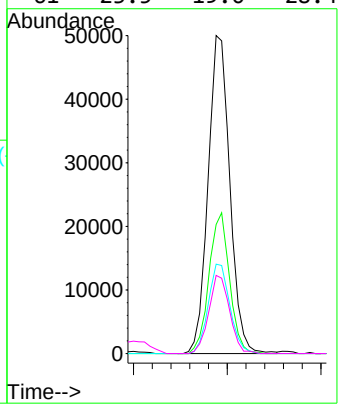


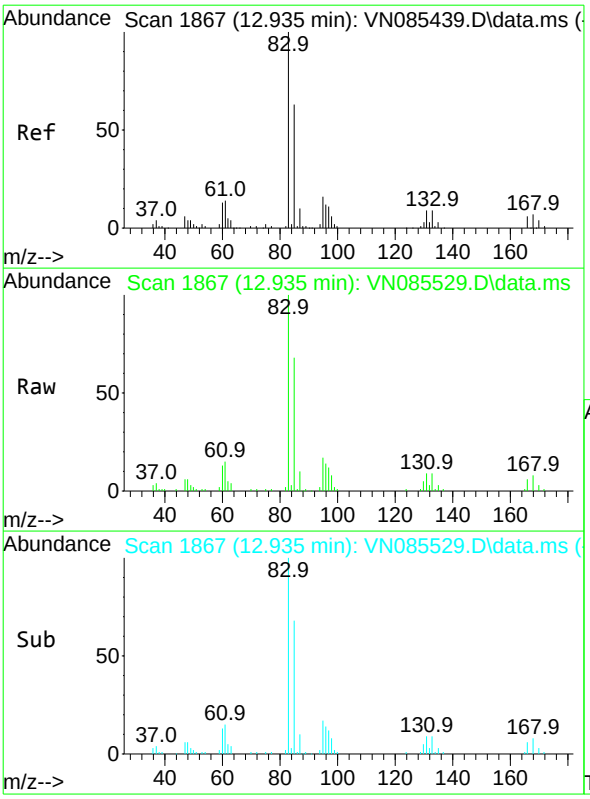




#74
N-amyl acetate
Concen: 20.975 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 43 Resp: 80633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 41.7 | 34.0 | 51.0 |
| 55 | 28.0 | 21.4 | 32.2 |
| 61 | 23.5 | 19.0 | 28.4 |






#75
1,1,2,2-Tetrachloroethane
Concen: 21.649 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

Tgt Ion: 83 Resp: 65405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 8.8 | 4.8 | 14.4 |
| 85 | 62.7 | 32.2 | 96.6 |

**Manual Integrations**
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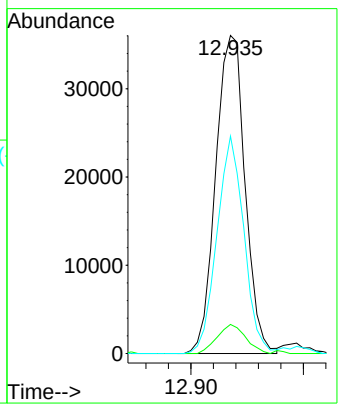
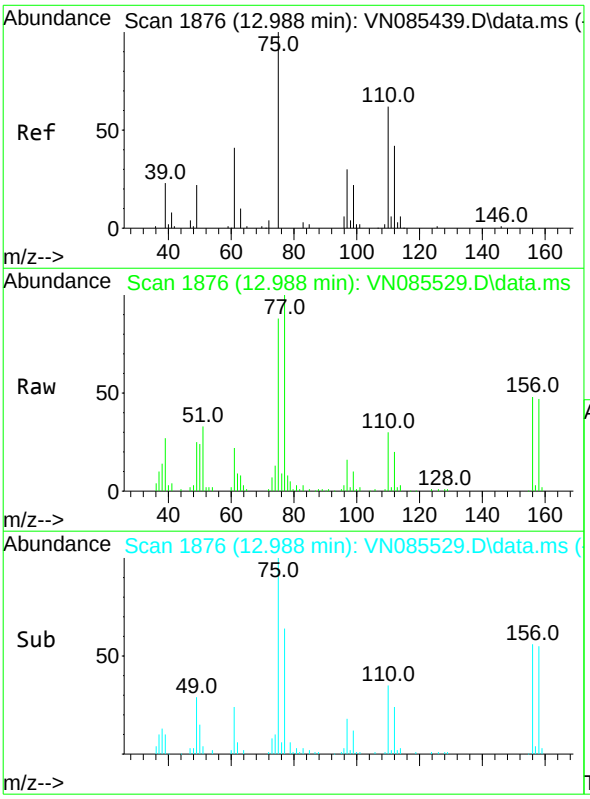
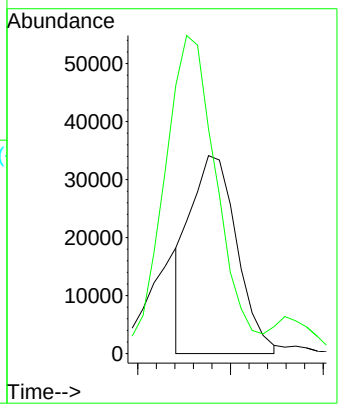


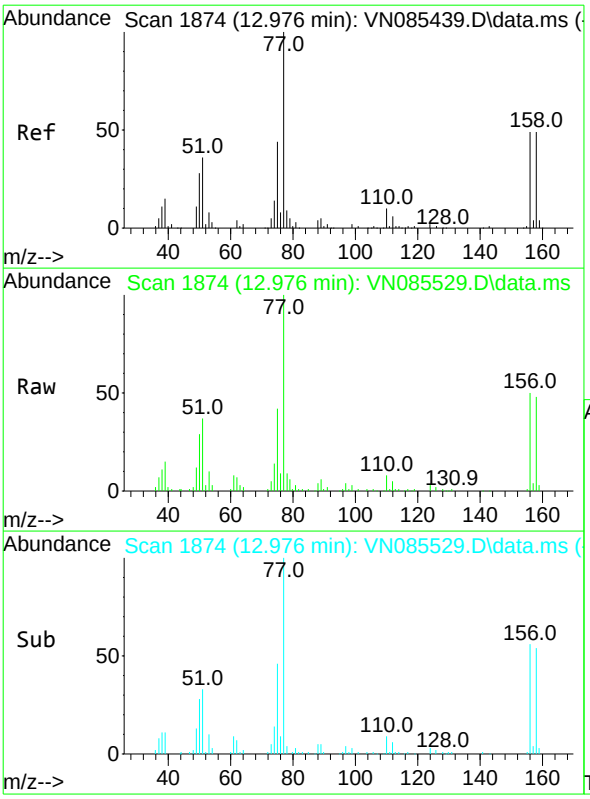




#76
1,2,3-Trichloropropane
Concen: 23.321 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 75 Resp: 60066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 181.2 | 109.7 | 329.2 |






#77
Bromobenzene
Concen: 21.332 ug/l
RT: 12.976 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:156 Resp: 47665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 228.4 | 114.1 | 342.4 |
| 158 | 94.0 | 48.9 | 146.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
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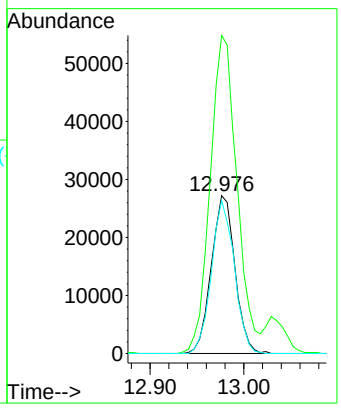
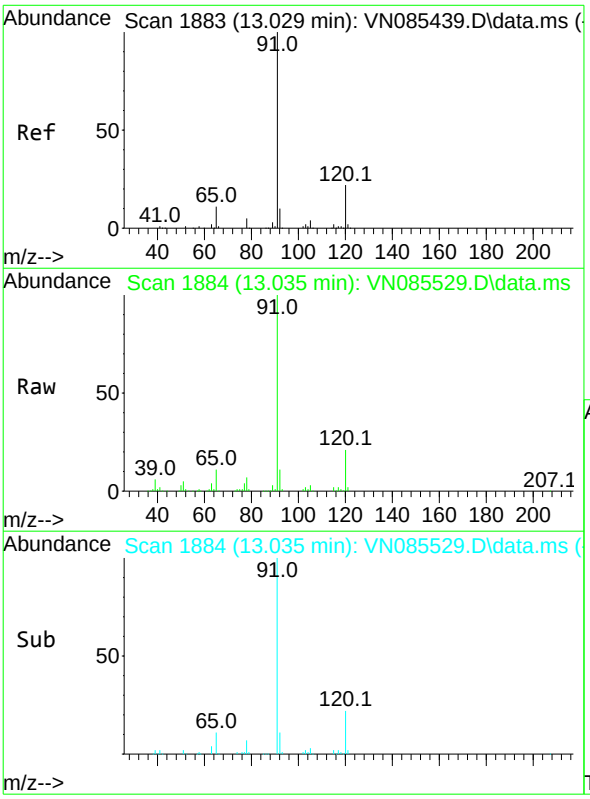
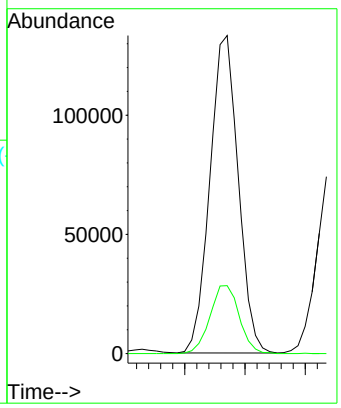


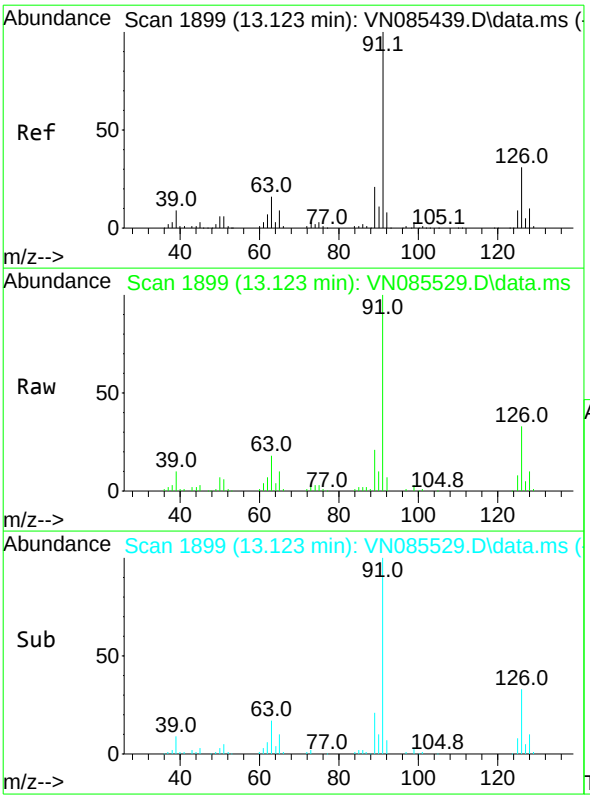




#78
n-propylbenzene
Concen: 21.517 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 91 Resp: 217855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.1 | 10.9 | 32.6 |






#79
2-Chlorotoluene
Concen: 21.081 ug/l
RT: 13.123 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 91 Resp: 138138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.9 | 15.7 | 47.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
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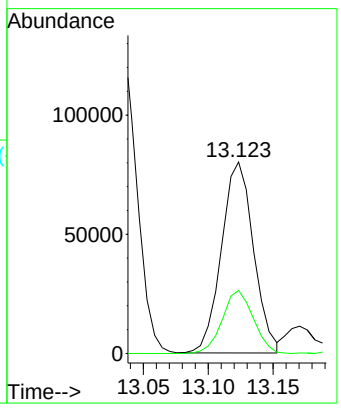
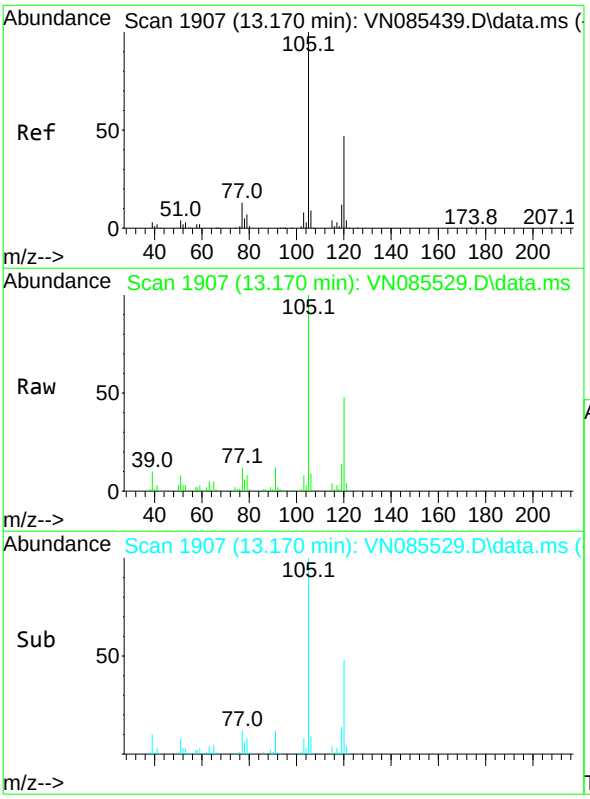
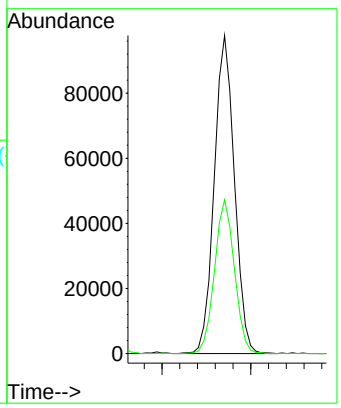


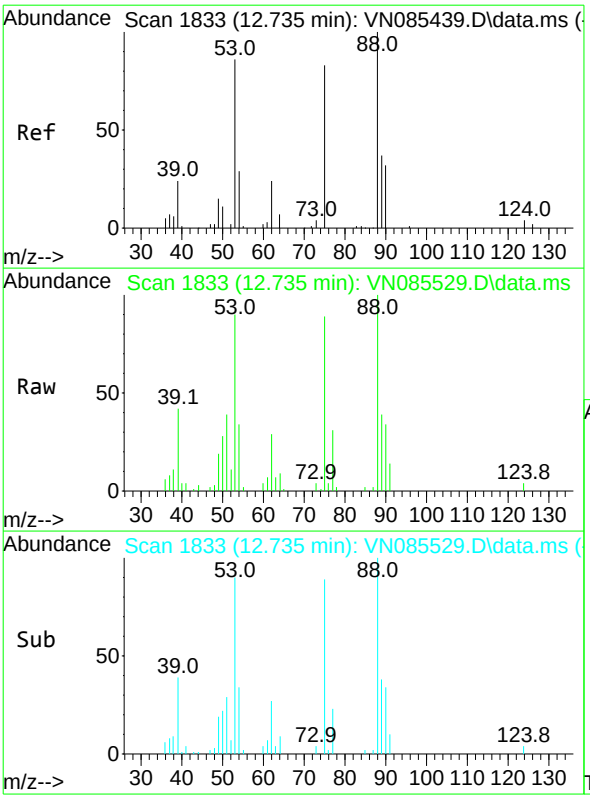




#80
1,3,5-Trimethylbenzene
Concen: 21.836 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:105 Resp: 154258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.7 | 23.9 | 71.7 |






#81
trans-1,4-Dichloro-2-butene
Concen: 23.073 ug/l
RT: 12.735 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 75 Resp: 21965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 101.0 | 95.6 | 143.4 |
| 89 | 44.0 | 37.0 | 55.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
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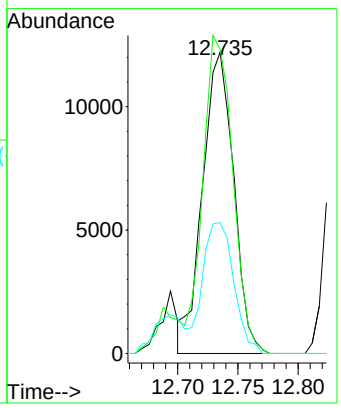
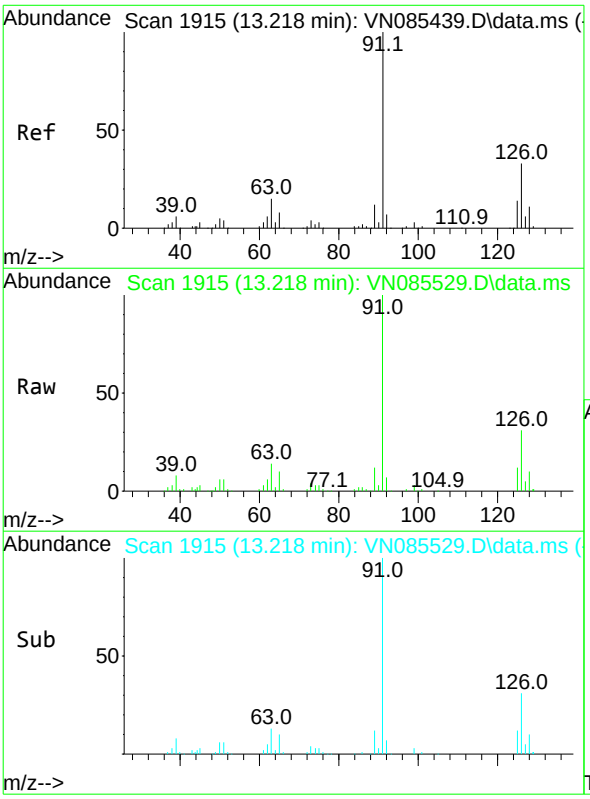
Supervised By :Semsettin Yesilyurt 01/29/2025

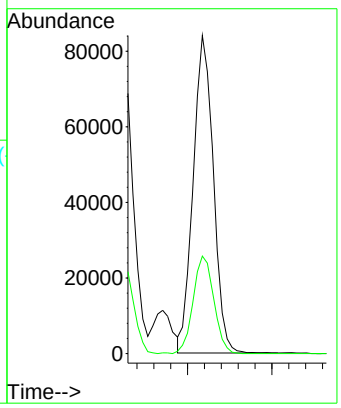


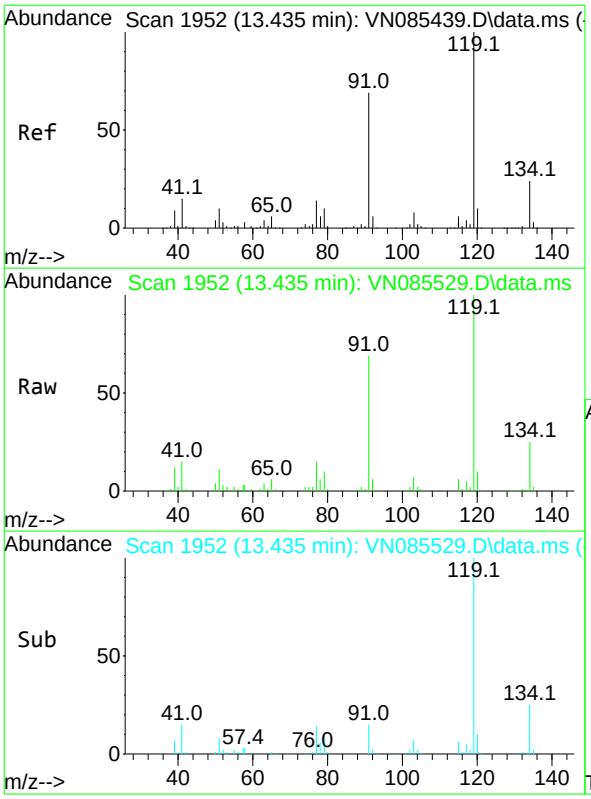




#82
4-Chlorotoluene
Concen: 21.369 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 91 Resp: 139420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.6 | 15.9 | 47.7 |






#83
tert-Butylbenzene
Concen: 20.926 ug/l
RT: 13.435 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

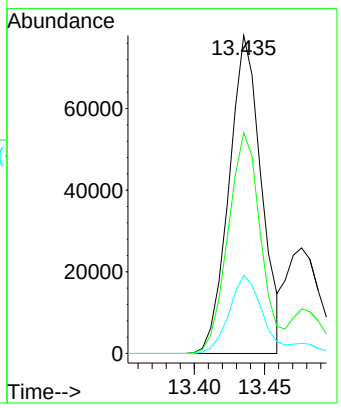
Tgt Ion:119 Resp: 124147

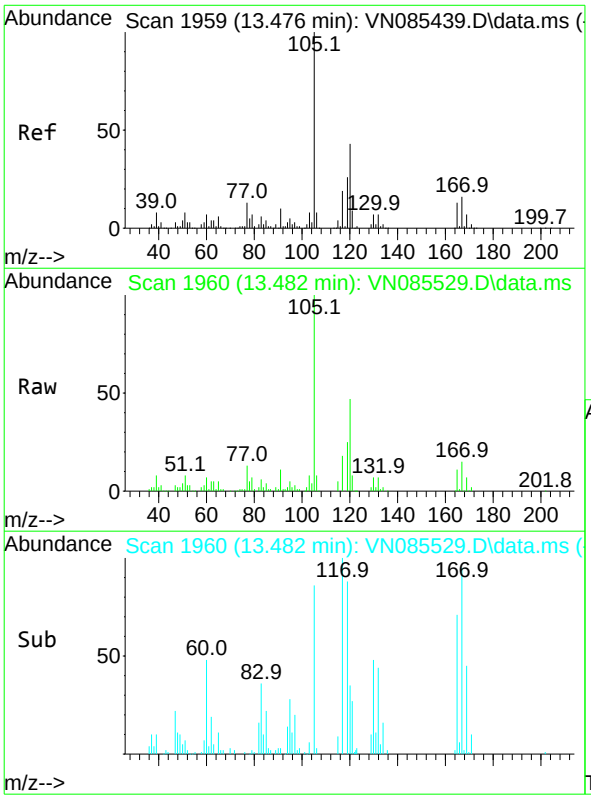
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 71.0 | 35.1 | 105.3 |
| 134 | 27.7 | 12.0 | 36.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

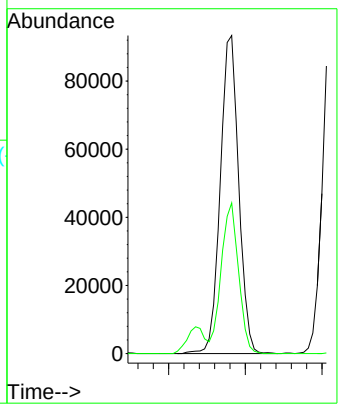


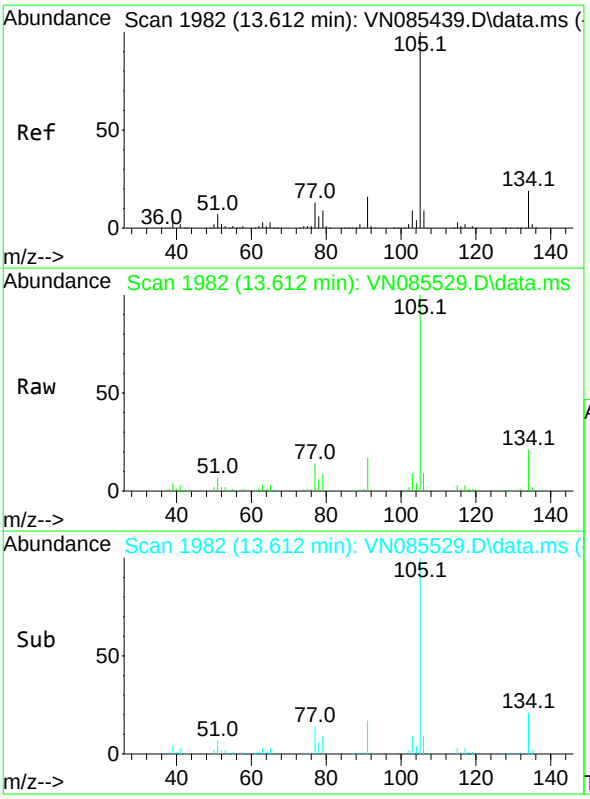




#84
1,2,4-Trimethylbenzene
Concen: 22.092 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:105 Resp: 155548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.5 | 21.6 | 65.0 |






#85
sec-Butylbenzene
Concen: 21.691 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

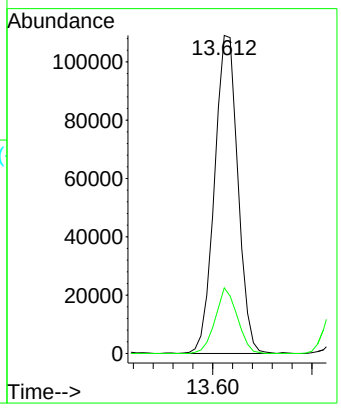
Tgt Ion:105 Resp: 178351

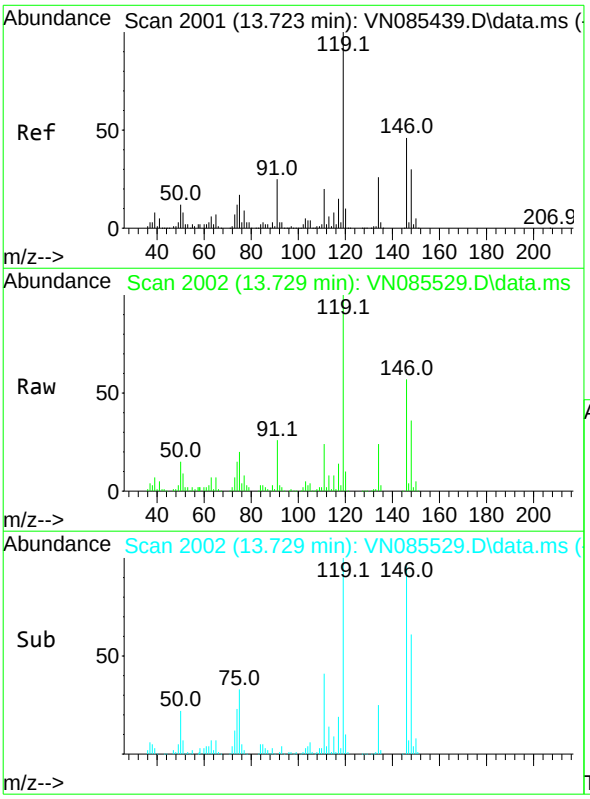
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.7 | 28.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

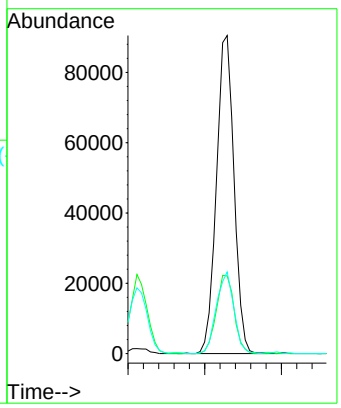


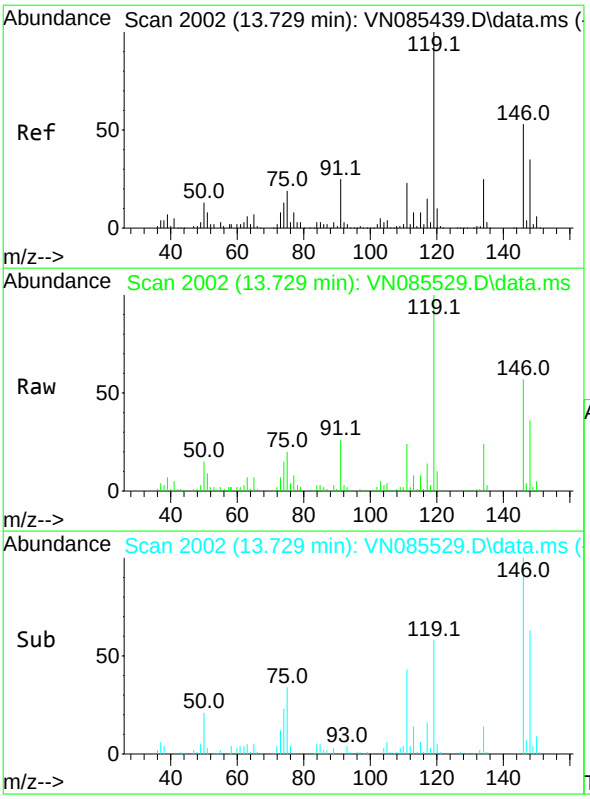




#86
p-Isopropyltoluene
Concen: 20.952 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:119 Resp: 143953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.1 | 12.7 | 38.0 |
| 91 | 25.5 | 12.7 | 38.1 |






#87
1,3-Dichlorobenzene
Concen: 20.833 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

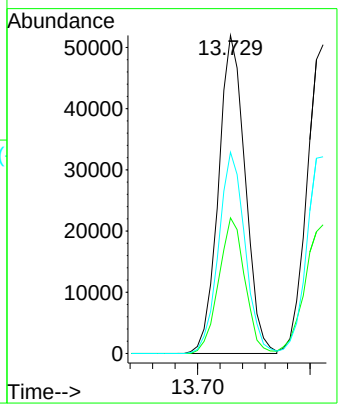
Tgt Ion:146 Resp: 85729

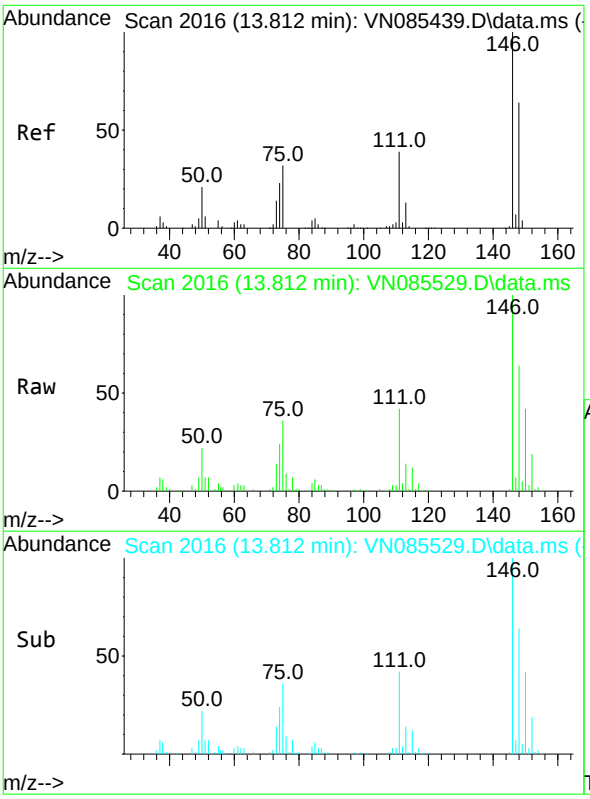
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.8 | 21.4 | 64.3 |
| 148 | 62.6 | 32.3 | 96.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

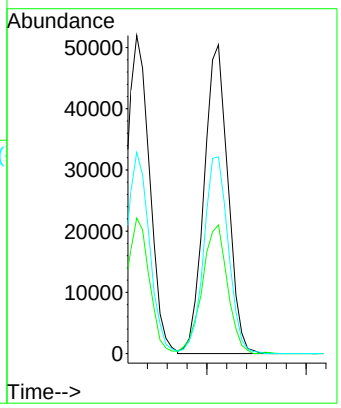


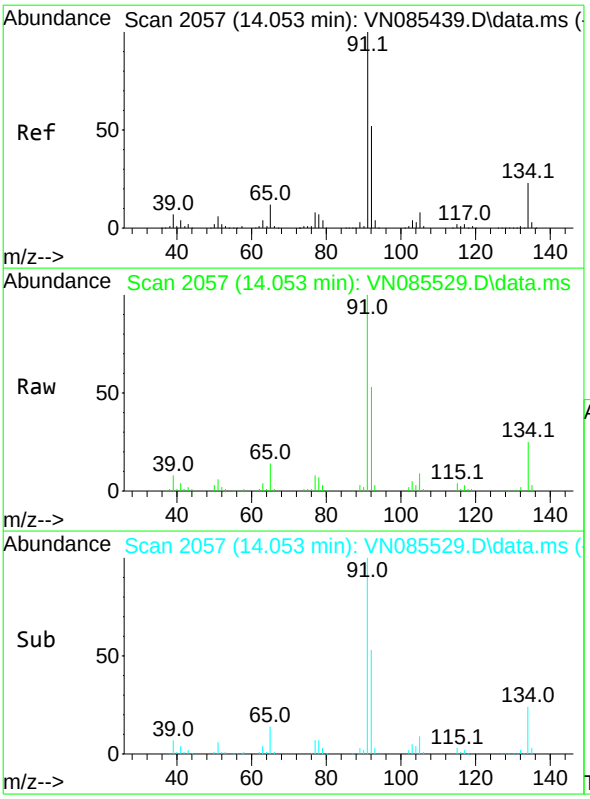




#88
1,4-Dichlorobenzene
Concen: 19.789 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:146 Resp: 84406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.9 | 21.3 | 63.7 |
| 148 | 65.4 | 32.4 | 97.0 |






#89
n-Butylbenzene
Concen: 19.526 ug/l
RT: 14.053 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

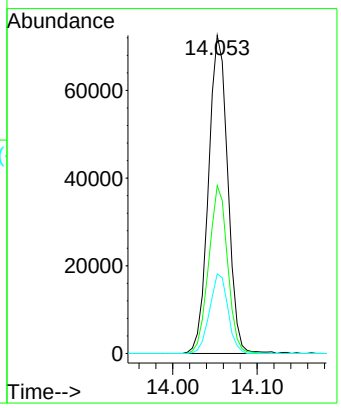
Tgt Ion: 91 Resp: 115181

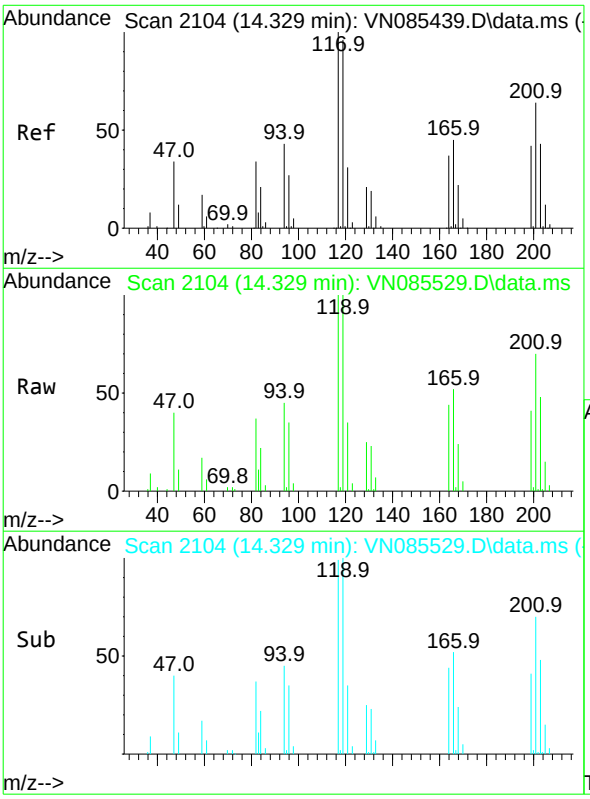
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.5 | 25.8 | 77.3 |
| 134 | 23.8 | 11.7 | 35.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

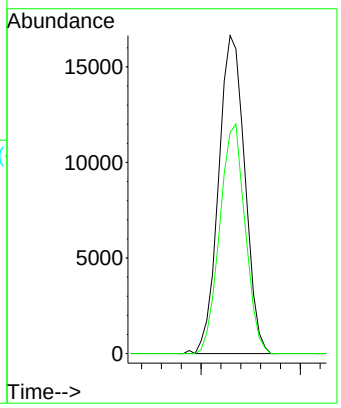


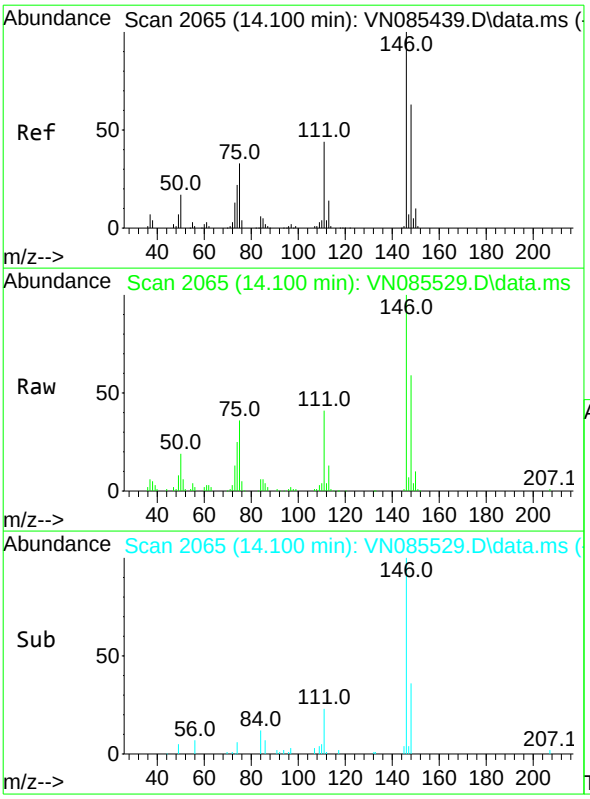




#90
Hexachloroethane
Concen: 19.522 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:117 Resp: 30558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 70.0 | 33.7 | 101.0 |






#91
1,2-Dichlorobenzene
Concen: 20.350 ug/l
RT: 14.100 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

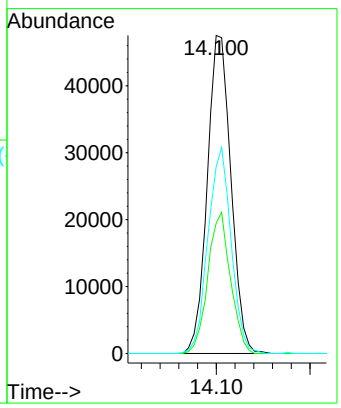
Tgt Ion:146 Resp: 83529

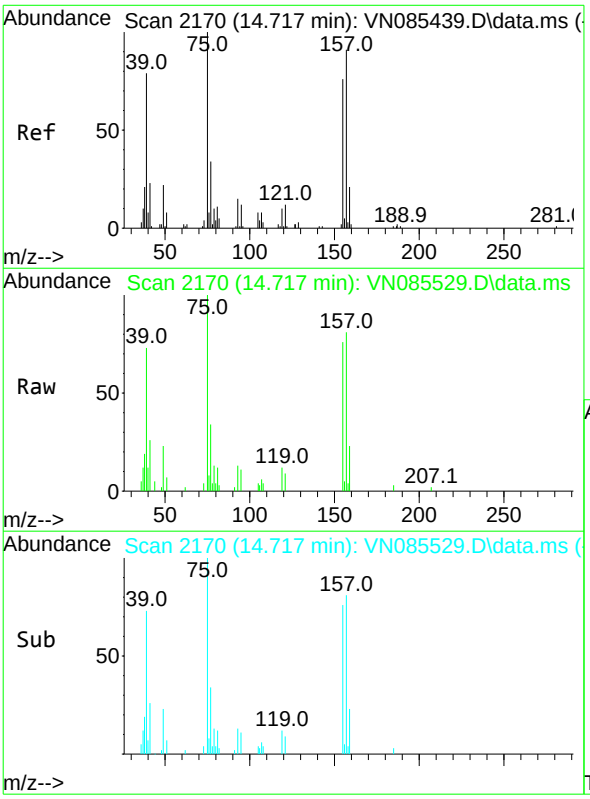
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.3 | 21.7 | 65.1 |
| 148 | 63.4 | 31.4 | 94.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

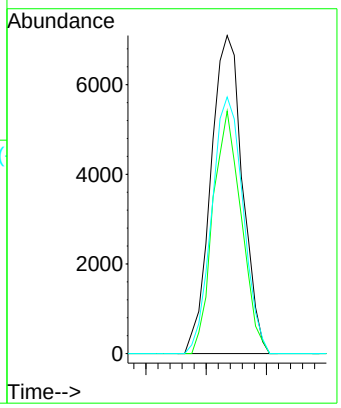


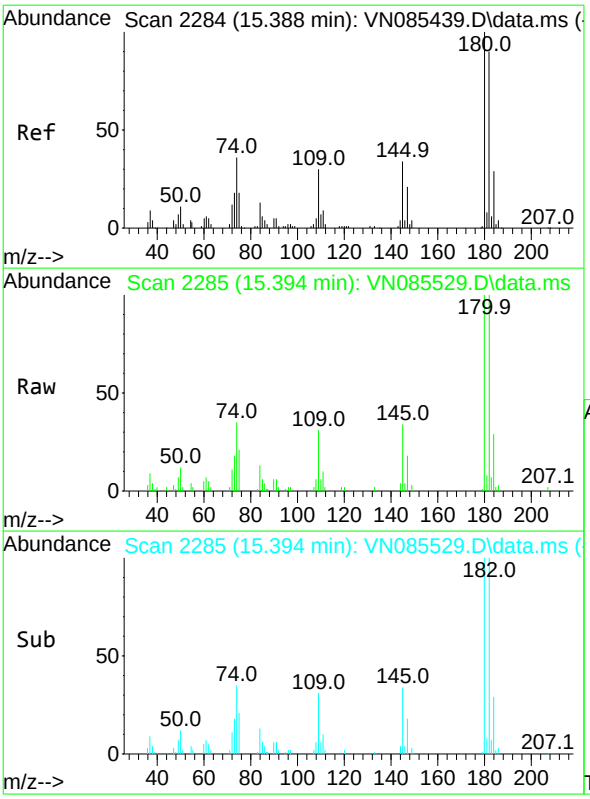




#92
1,2-Dibromo-3-Chloropropane
Concen: 23.494 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion: 75 Resp: 12961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 68.3 | 36.4 | 109.2 |
| 157 | 79.8 | 45.4 | 136.1 |






#93
1,2,4-Trichlorobenzene
Concen: 18.913 ug/l
RT: 15.394 min Scan# 22
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

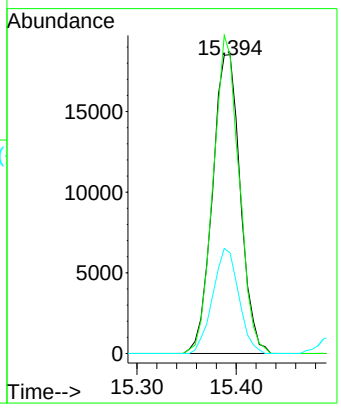
**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

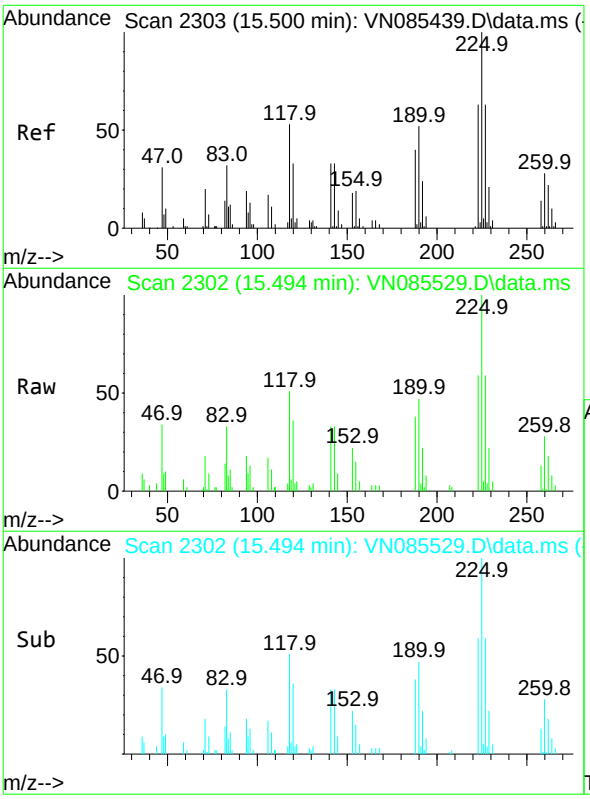
Tgt Ion:180 Resp: 36081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 99.0 | 46.8 | 140.3 |
| 145 | 32.9 | 16.0 | 48.0 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

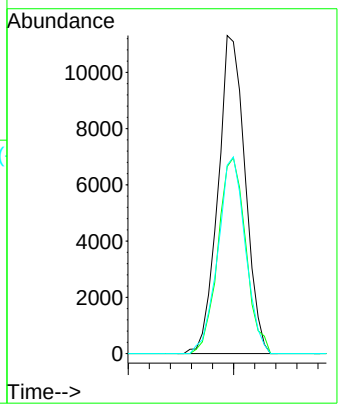


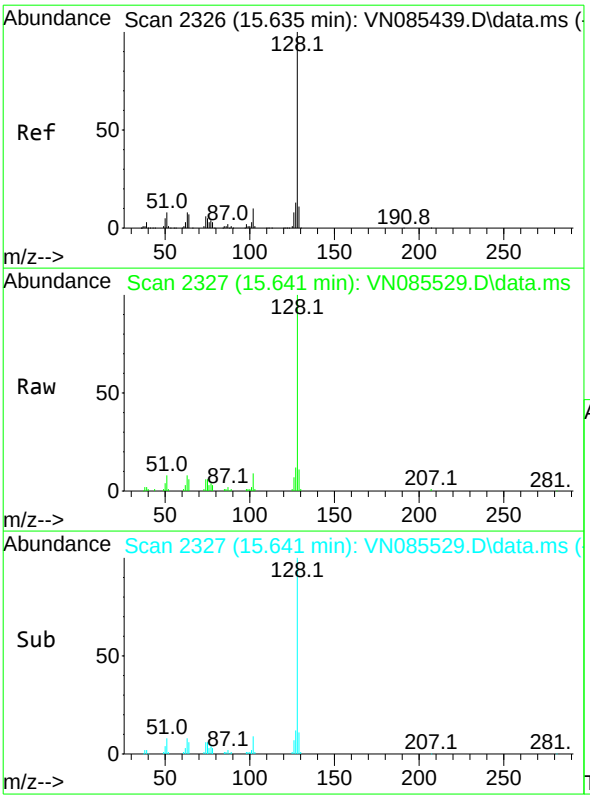




#94
Hexachlorobutadiene
Concen: 19.907 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:225 Resp: 20163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.1 | 30.7 | 92.1 |
| 227 | 62.5 | 30.9 | 92.5 |






#95
Naphthalene
Concen: 18.394 ug/l
RT: 15.641 min Scan# 23
Delta R.T. 0.006 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

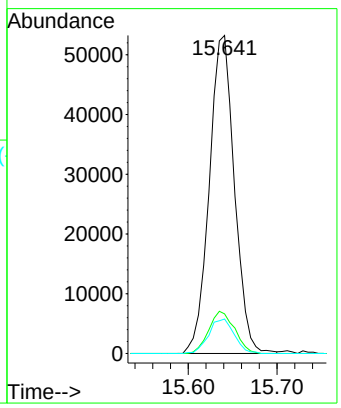
Tgt Ion:128 Resp: 104713

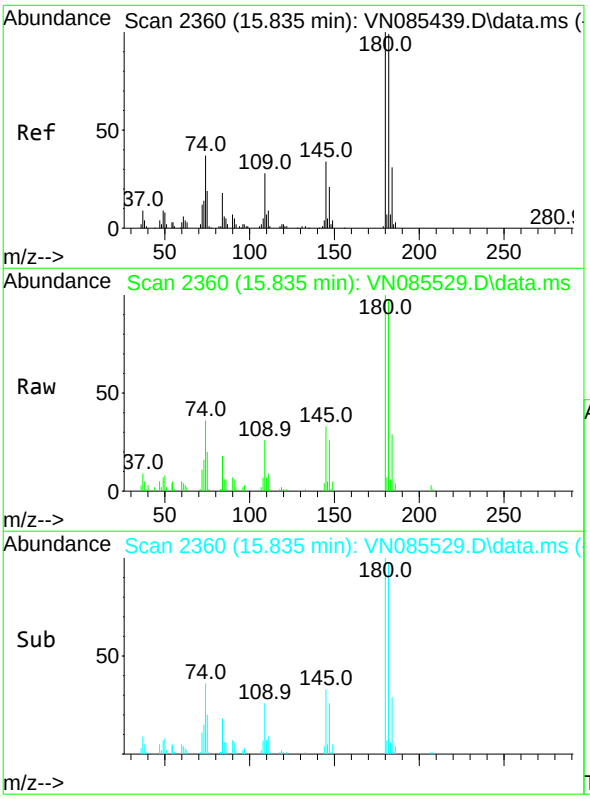
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.6 | 10.6 | 16.0 |
| 129 | 11.0 | 8.8 | 13.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0128WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/29/2025
Supervised By :Semsettin Yesilyurt 01/29/2025

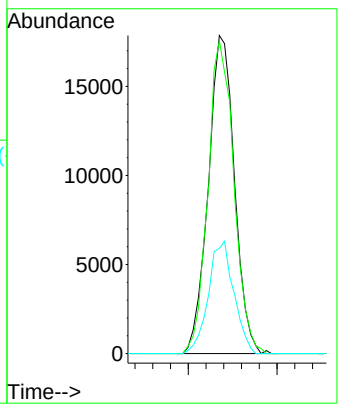



#96
1,2,3-Trichlorobenzene
Concen: 18.978 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085529.D
Acq: 28 Jan 2025 11:15

Tgt Ion:180 Resp: 36634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.1 | 47.4 | 142.2 |
| 145 | 34.3 | 16.9 | 50.7 |



Raw Data: **VY020938.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0127SBS01 | SDG No.: | Q1194 |
| Lab Sample ID: | VY0127SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020938.D | 1 | | 01/27/25 10:30 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 22.4 | | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 22.6 | | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 22.0 | | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 21.2 | | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 21.6 | | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 21.6 | | 0.91 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.9 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 21.8 | | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 120 | | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 22.0 | | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 22.4 | | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 23.3 | | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 21.7 | | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 21.6 | | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 21.8 | | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 21.1 | | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 120 | | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 21.0 | | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 21.7 | | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 21.6 | | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 21.6 | | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 21.6 | | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 21.0 | | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 21.7 | | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 21.9 | | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 21.8 | | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 21.4 | | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 21.4 | | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 120 | | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 21.4 | | 0.67 | 5.00 | ug/Kg |

Raw Data: **VY020938.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0127SBS01 | SDG No.: | Q1194 |
| Lab Sample ID: | VY0127SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020938.D | 1 | | 01/27/25 10:30 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 22.0 | | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 21.2 | | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 22.5 | | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 120 | | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 21.9 | | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 22.3 | | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 21.8 | | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 21.5 | | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 21.4 | | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 43.6 | | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 21.7 | | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 21.9 | | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 22.5 | | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 20.5 | | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 22.2 | | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 20.9 | | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 20.9 | | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.9 | | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 22.5 | | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20.5 | | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.8 | | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 48.5 | | 70 (50) - 130 (163) | 97% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 47.0 | | 70 (54) - 130 (147) | 94% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.6 | | 70 (58) - 130 (134) | 93% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.9 | | 70 (29) - 130 (146) | 96% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 285000 | 7.719 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 422000 | 8.628 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 351000 | 11.426 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 176000 | 13.359 | | | |

Raw Data: **VY020938.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0127SBS01 | SDG No.: | Q1194 |
| Lab Sample ID: | VY0127SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020938.D | 1 | | 01/27/25 10:30 | VY012725 |

| 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

Quantitation Report (QT Reviewed)

Sample Results: **VY020938.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020938.D
Acq On : 27 Jan 2025 10:30
Operator : SY/MD
Sample : VY0127SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 28 01:09:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**
Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 284690 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.628 | 114 | 421508 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 350671 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.359 | 152 | 176333 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 110174 | 48.538 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 97.080% | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 113757 | 47.011 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 94.020% | | | |
| 50) Toluene-d8 | 10.115 | 98 | 437191 | 46.579 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 93.160% | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 149686 | 47.919 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 95.840% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 48149 | 22.361 | ug/l | 97 |
| 3) Chloromethane | 2.080 | 50 | 36177 | 22.589 | ug/l | 100 |
| 4) Vinyl Chloride | 2.214 | 62 | 38449 | 22.028 | ug/l | 100 |
| 5) Bromomethane | 2.610 | 94 | 25063 | 21.200 | ug/l | 98 |
| 6) Chloroethane | 2.751 | 64 | 22140 | 21.620 | ug/l | 94 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 80219 | 21.631 | ug/l | 98 |
| 8) Diethyl Ether | 3.470 | 74 | 25635 | 22.491 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.836 | 101 | 53613 | 21.910 | ug/l | 99 |
| 10) Methyl Iodide | 4.025 | 142 | 57246 | 19.630 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.884 | 59 | 20578 | 117.438 | ug/l | 96 |
| 12) 1,1-Dichloroethene | 3.805 | 96 | 50393 | 21.807 | ug/l | 97 |
| 13) Acrolein | 3.671 | 56 | 28649 | 120.605 | ug/l | 98 |
| 14) Allyl chloride | 4.403 | 41 | 71560 | 22.186 | ug/l | 97 |
| 15) Acrylonitrile | 5.080 | 53 | 53095 | 118.506 | ug/l | 99 |
| 16) Acetone | 3.885 | 43 | 37133 | 120.743 | ug/l | 89 |
| 17) Carbon Disulfide | 4.129 | 76 | 156670 | 21.953 | ug/l | 99 |
| 18) Methyl Acetate | 4.403 | 43 | 25924 | 23.335 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.134 | 73 | 119786 | 22.380 | ug/l | 95 |
| 20) Methylene Chloride | 4.635 | 84 | 49667 | 21.715 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.134 | 96 | 53877 | 21.624 | ug/l | 96 |
| 22) Diisopropyl ether | 6.031 | 45 | 143225 | 22.076 | ug/l | 92 |
| 23) Vinyl Acetate | 5.976 | 43 | 410775 | 114.402 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.933 | 63 | 89697 | 21.810 | ug/l | 97 |
| 25) 2-Butanone | 6.909 | 43 | 61766 | 118.564 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 6.902 | 77 | 87236 | 21.535 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.909 | 96 | 61025 | 21.702 | ug/l | 99 |
| 28) Bromochloromethane | 7.256 | 49 | 35732 | 21.588 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.274 | 42 | 41958 | 120.850 | ug/l | 99 |
| 30) Chloroform | 7.433 | 83 | 93910 | 21.575 | ug/l | 100 |
| 31) Cyclohexane | 7.719 | 56 | 85125 | 21.060 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 91052 | 21.566 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 71879 | 21.275 | ug/l | 99 |
| 37) Ethyl Acetate | 7.000 | 43 | 30141 | 22.995 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 85604 | 21.011 | ug/l | 98 |
| 39) Methylcyclohexane | 9.122 | 83 | 95857 | 20.958 | ug/l | 98 |
| 40) Benzene | 8.091 | 78 | 215434 | 21.736 | ug/l | 100 |

Sample Results: **VY020938.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020938.D
Acq On : 27 Jan 2025 10:30
Operator : SY/MD
Sample : VY0127SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 28 01:09:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**
Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.238 | 41 | 18562 | 26.807 ug/l # | 88 |
| 42) 1,2-Dichloroethane | 8.170 | 62 | 54032 | 21.908 ug/l | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 56703 | 22.812 ug/l | 100 |
| 44) Trichloroethene | 8.878 | 130 | 58573 | 21.752 ug/l | 89 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 46784 | 21.383 ug/l | 97 |
| 46) Dibromomethane | 9.243 | 93 | 27400 | 22.029 ug/l | 98 |
| 47) Bromodichloromethane | 9.432 | 83 | 70879 | 21.417 ug/l | 96 |
| 48) Methyl methacrylate | 9.231 | 41 | 26351 | 22.474 ug/l | 98 |
| 49) 1,4-Dioxane | 9.243 | 88 | 6041 | 471.706 ug/l | 94 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 144479 | 115.278 ug/l | 98 |
| 52) Toluene | 10.182 | 92 | 136581 | 21.426 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 66799 | 22.013 ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 76726 | 21.175 ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 37817 | 22.493 ug/l | 97 |
| 56) Ethyl methacrylate | 10.451 | 69 | 49929 | 22.660 ug/l | 96 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 63035 | 22.070 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 95288 | 95.282 ug/l | 100 |
| 59) 2-Hexanone | 10.768 | 43 | 94676 | 117.476 ug/l | 99 |
| 60) Dibromochloromethane | 10.920 | 129 | 51729 | 21.861 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 35891 | 22.319 ug/l | 97 |
| 64) Tetrachloroethene | 10.658 | 164 | 53316 | 21.848 ug/l | 96 |
| 65) Chlorobenzene | 11.450 | 112 | 147278 | 21.477 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 52538 | 21.560 ug/l | 99 |
| 67) Ethyl Benzene | 11.530 | 91 | 255989 | 21.393 ug/l | 99 |
| 68) m/p-Xylenes | 11.639 | 106 | 199594 | 43.562 ug/l | 100 |
| 69) o-Xylene | 11.962 | 106 | 92840 | 21.692 ug/l | 99 |
| 70) Styrene | 11.981 | 104 | 153642 | 21.905 ug/l | 99 |
| 71) Bromoform | 12.139 | 173 | 31094 | 22.534 ug/l # | 99 |
| 73) Isopropylbenzene | 12.261 | 105 | 248935 | 20.498 ug/l | 100 |
| 74) N-amyl acetate | 12.078 | 43 | 47129 | 21.809 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.517 | 83 | 41935 | 22.193 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.566 | 75 | 33394m | 26.785 ug/l | |
| 77) Bromobenzene | 12.542 | 156 | 59254 | 20.815 ug/l | 98 |
| 78) n-propylbenzene | 12.603 | 91 | 293711 | 20.762 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 166593 | 20.764 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 202745 | 20.777 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 14641 | 22.688 ug/l | 96 |
| 82) 4-Chlorotoluene | 12.785 | 91 | 171424 | 20.923 ug/l | 100 |
| 83) tert-Butylbenzene | 13.005 | 119 | 183352 | 20.371 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.054 | 105 | 200305 | 20.851 ug/l | 100 |
| 85) sec-Butylbenzene | 13.182 | 105 | 265445 | 20.685 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.304 | 119 | 224491 | 20.706 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.298 | 146 | 114125 | 20.935 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 112075 | 20.929 ug/l | 98 |
| 89) n-Butylbenzene | 13.627 | 91 | 195281 | 20.420 ug/l | 100 |
| 90) Hexachloroethane | 13.889 | 117 | 43323 | 20.116 ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 13.669 | 146 | 98897 | 20.940 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 6385 | 22.494 ug/l | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.931 | 180 | 58110 | 20.453 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 39240 | 20.186 ug/l | 98 |
| 95) Naphthalene | 15.157 | 128 | 95967 | 21.064 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 49716 | 20.828 ug/l | 99 |

Sample Results: **VY020938.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020938.D
Acq On : 27 Jan 2025 10:30
Operator : SY/MD
Sample : VY0127SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

Quant Time: Jan 28 01:09:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

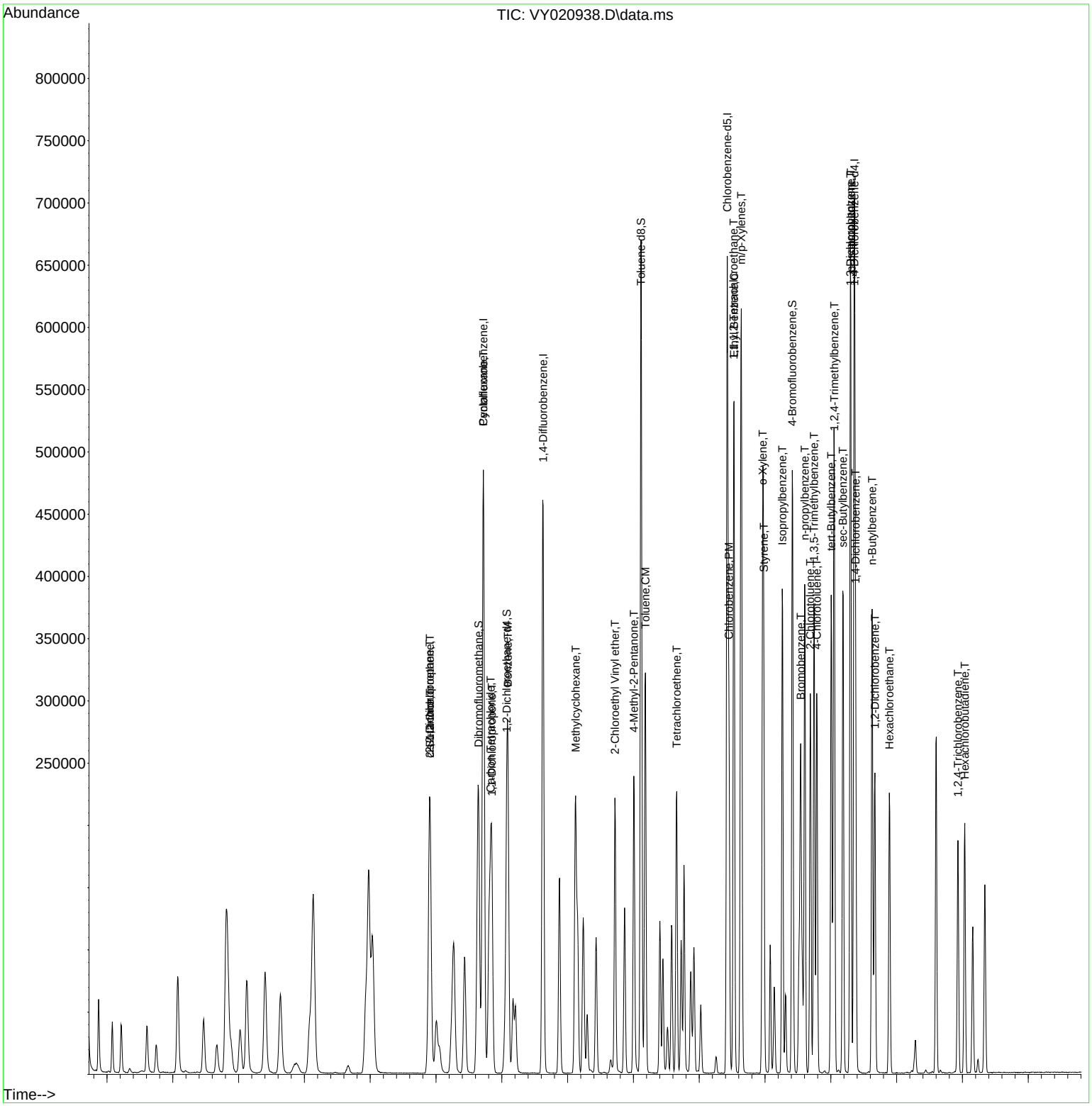
Sample Results: **VY020938.D**

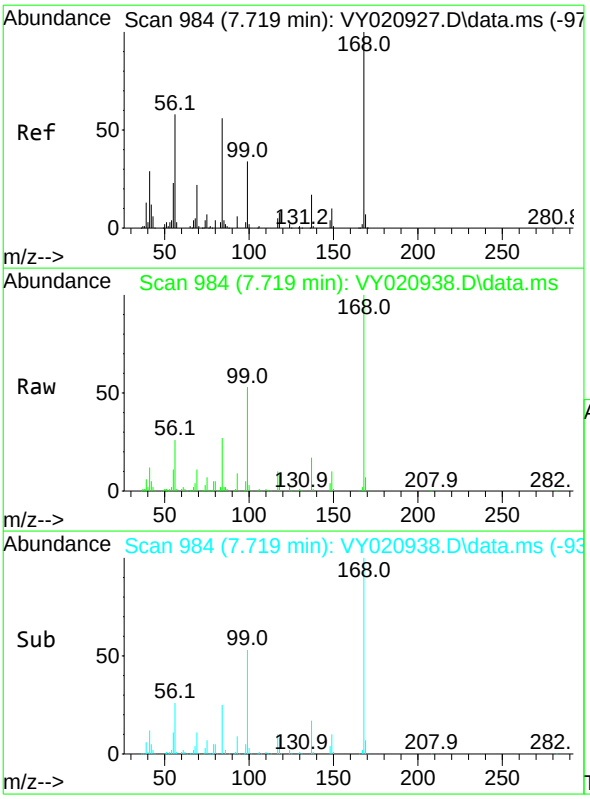
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020938.D
Acq On : 27 Jan 2025 10:30
Operator : SY/MD
Sample : VY0127SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 28 01:09:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**
Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

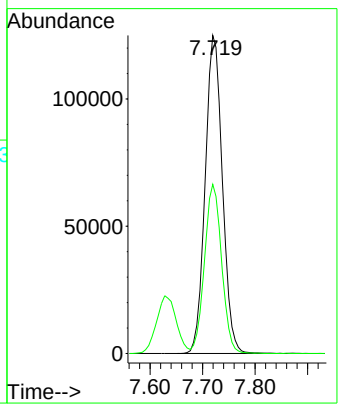
Tgt Ion:168 Resp: 284690

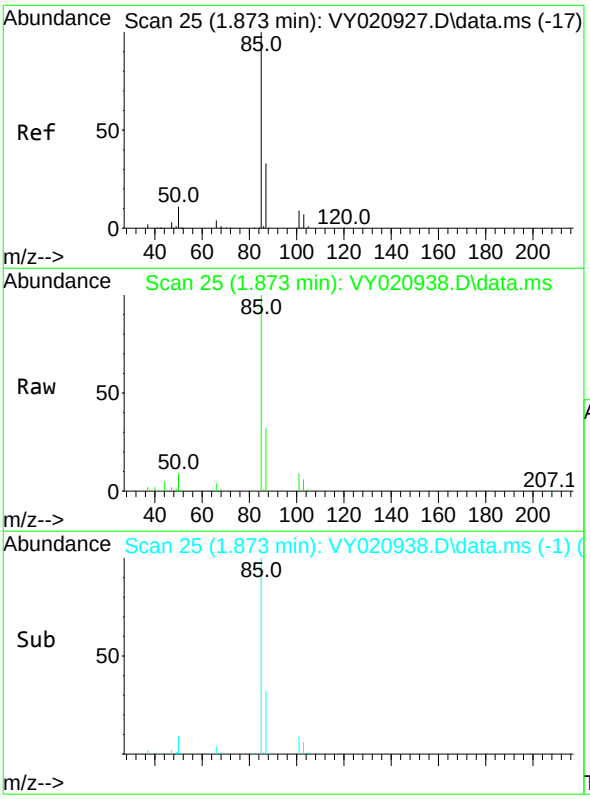
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.2 | 43.0 | 64.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

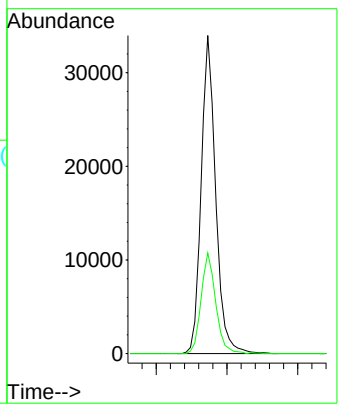


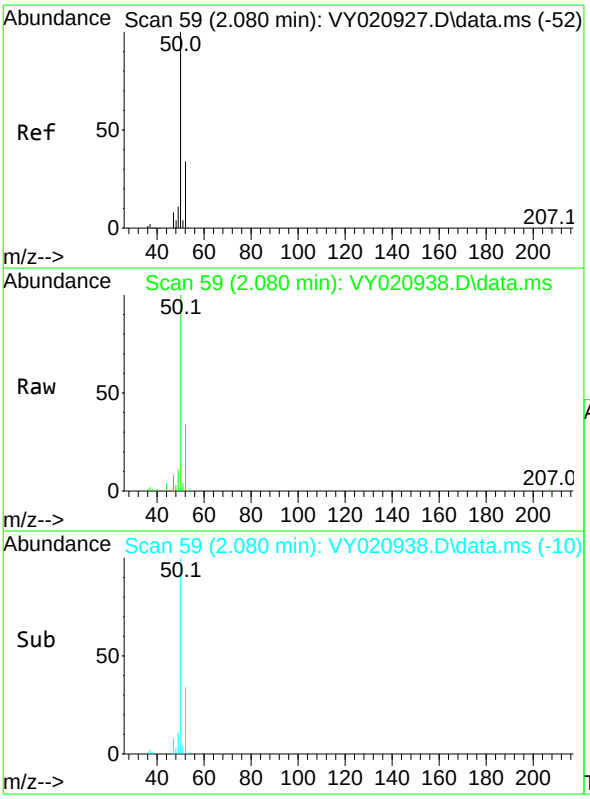




#2
Dichlorodifluoromethane
Concen: 22.361 ug/l
RT: 1.873 min Scan# 25
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 85 Resp: 48149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.6 | 16.6 | 49.8 |






#3
Chloromethane
Concen: 22.589 ug/l
RT: 2.080 min Scan# 59
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

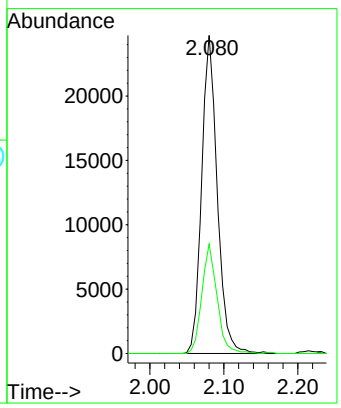
Tgt Ion: 50 Resp: 36177

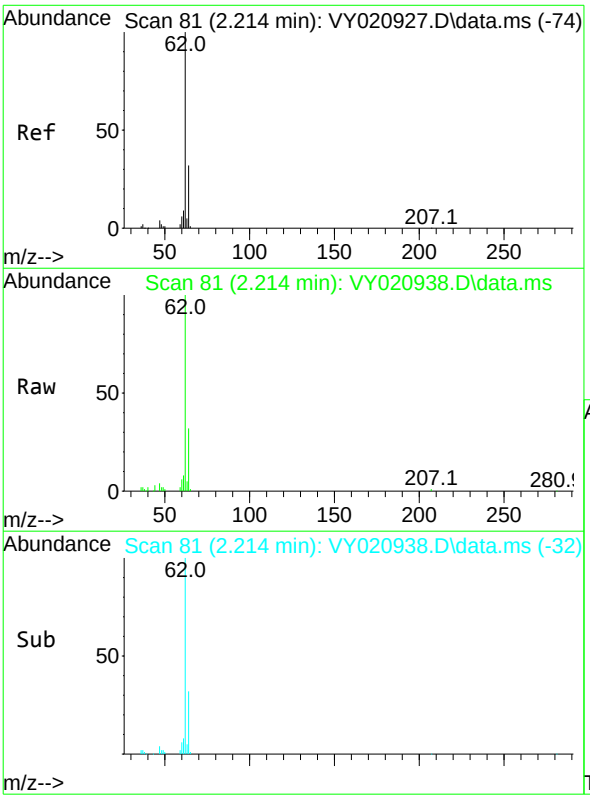
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.4 | 27.4 | 41.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

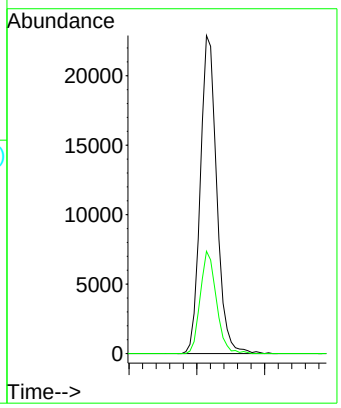


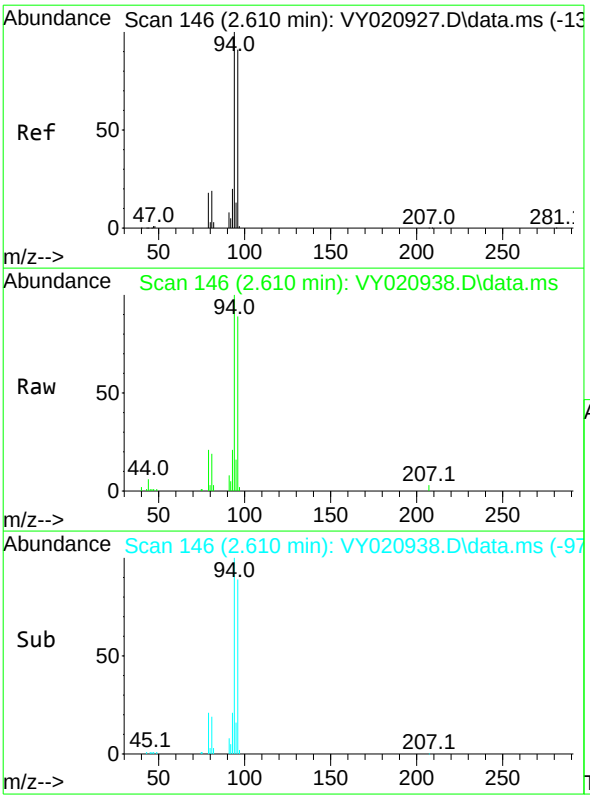




#4
Vinyl Chloride
Concen: 22.028 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 62 Resp: 38449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.2 | 25.7 | 38.5 |






#5
Bromomethane
Concen: 21.200 ug/l
RT: 2.610 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

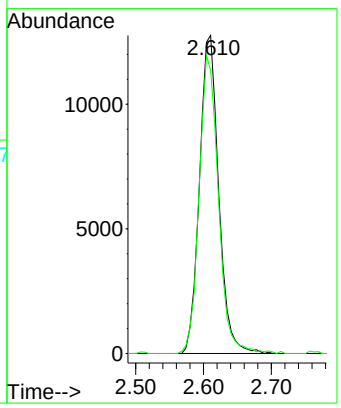
Tgt Ion: 94 Resp: 25063

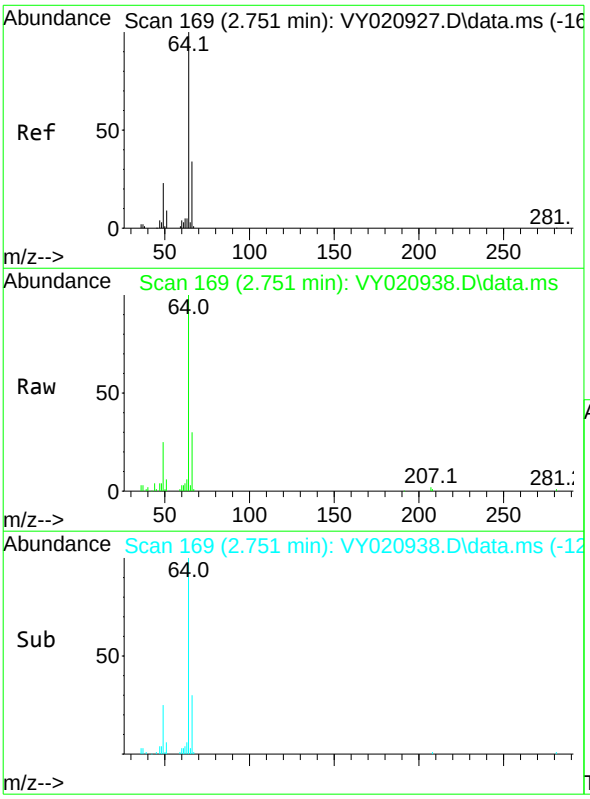
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 89.0 | 72.6 | 109.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

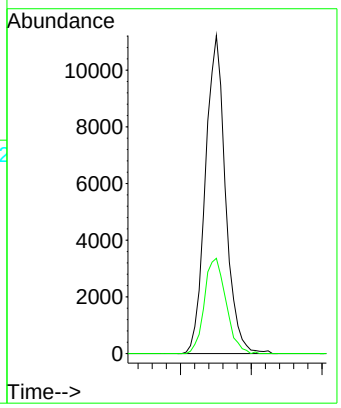


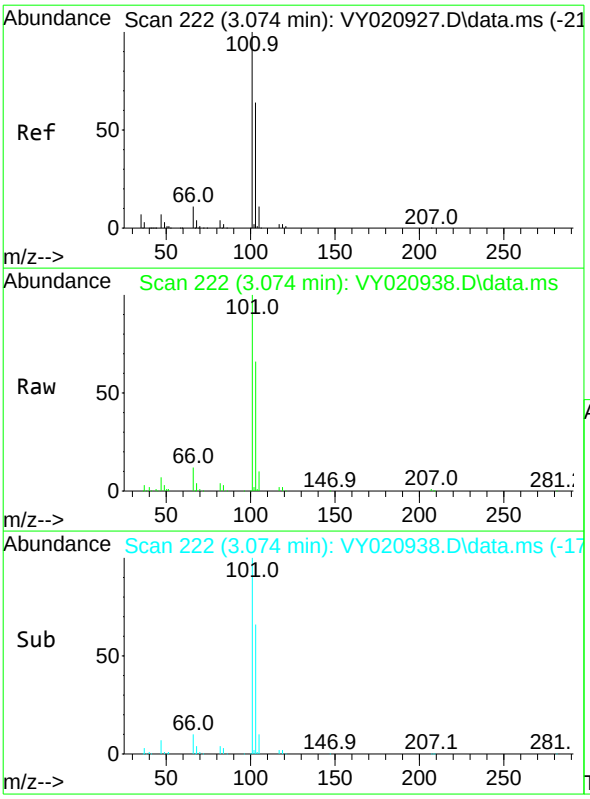




#6
Chloroethane
Concen: 21.620 ug/l
RT: 2.751 min Scan# 169
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 64 Resp: 22140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.0 | 26.9 | 40.3 |






#7
Trichlorofluoromethane
Concen: 21.631 ug/l
RT: 3.074 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

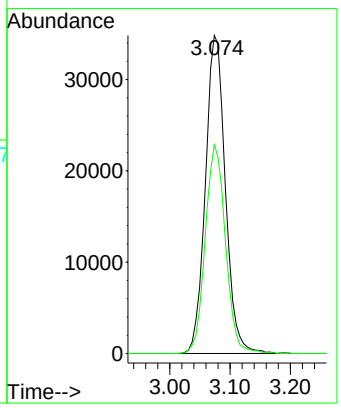
Tgt Ion:101 Resp: 80219

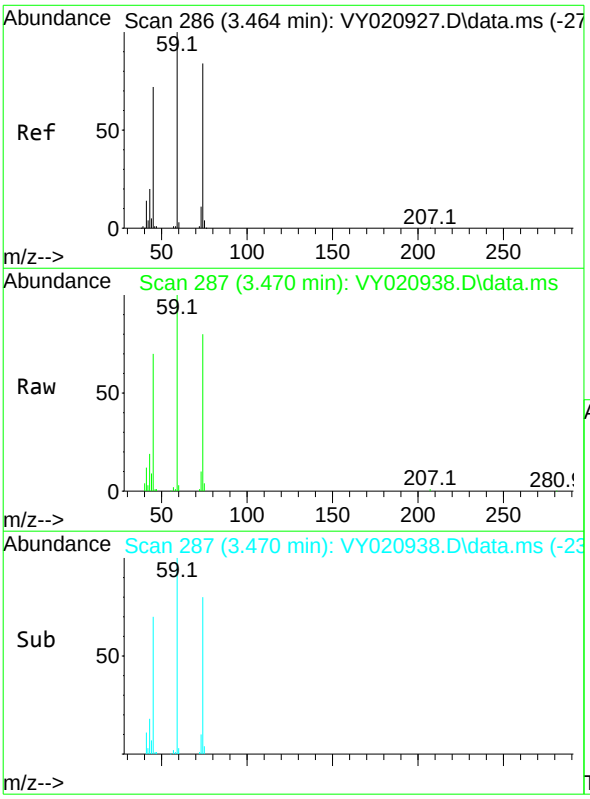
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.6 | 51.0 | 76.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

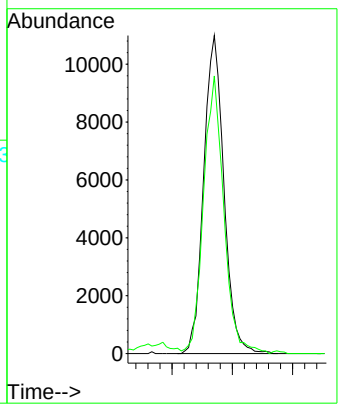


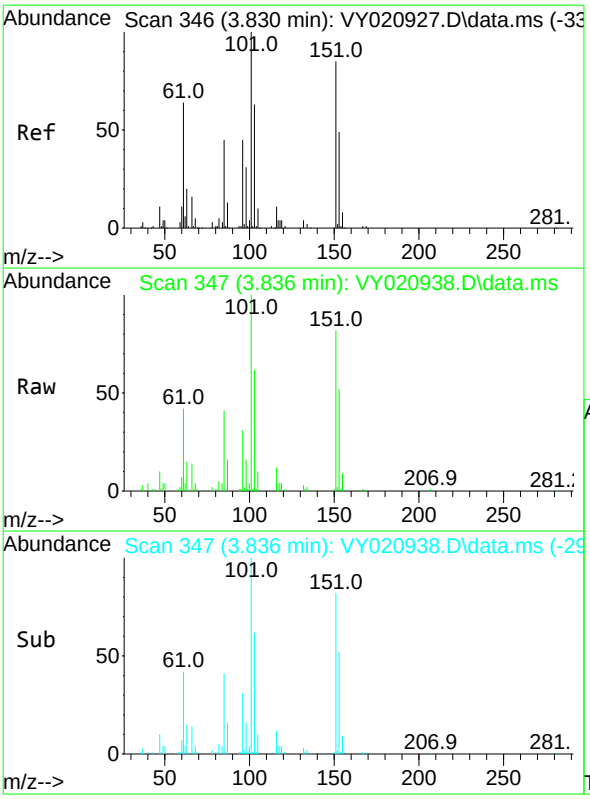




#8
Diethyl Ether
Concen: 22.491 ug/l
RT: 3.470 min Scan# 287
Delta R.T. 0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 74 Resp: 25635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 87.3 | 45.1 | 135.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.910 ug/l
RT: 3.836 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

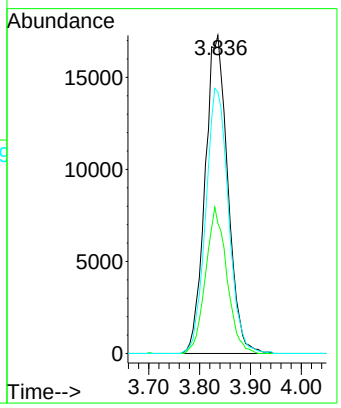
Tgt Ion:101 Resp: 53613

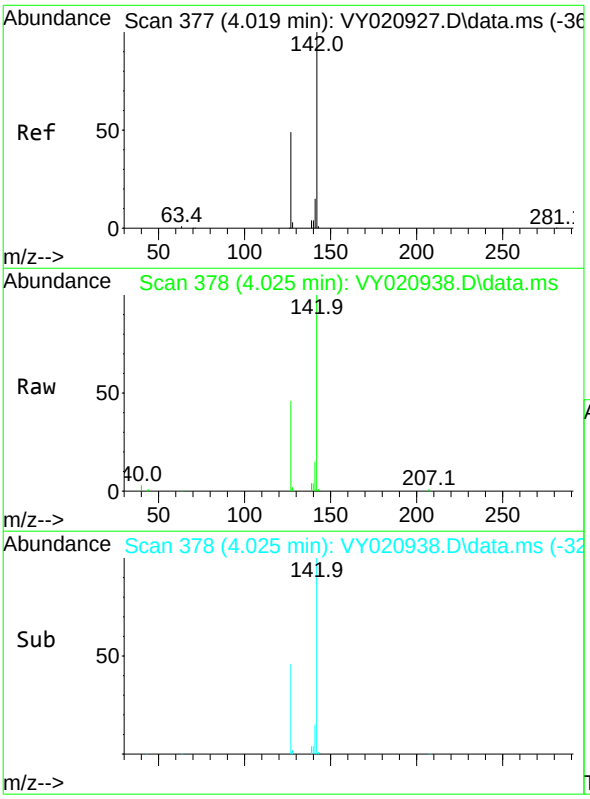
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 42.9 | 35.4 | 53.2 |
| 151 | 83.6 | 66.3 | 99.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

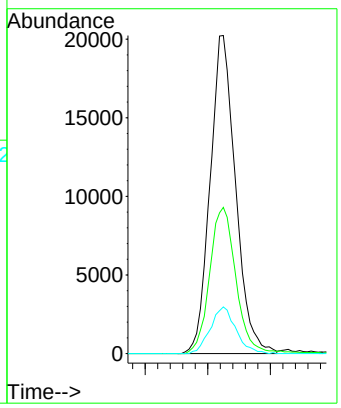


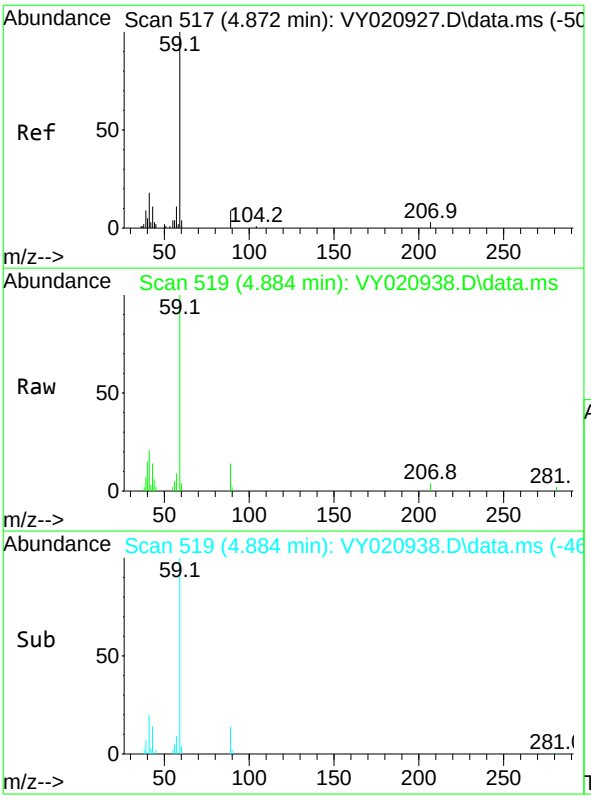




#10
Methyl Iodide
Concen: 19.630 ug/l
RT: 4.025 min Scan# 378
Delta R.T. 0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:142 Resp: 57246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 47.5 | 37.3 | 55.9 |
| 141 | 14.7 | 11.4 | 17.2 |






#11
Tert butyl alcohol
Concen: 117.438 ug/l
RT: 4.884 min Scan# 51
Delta R.T. 0.012 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

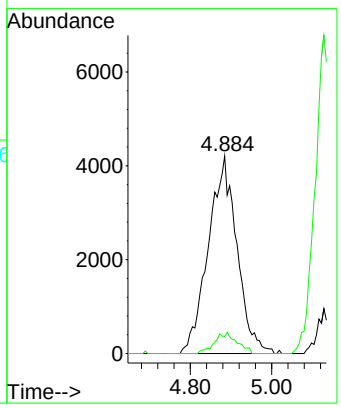
Tgt Ion: 59 Resp: 20578

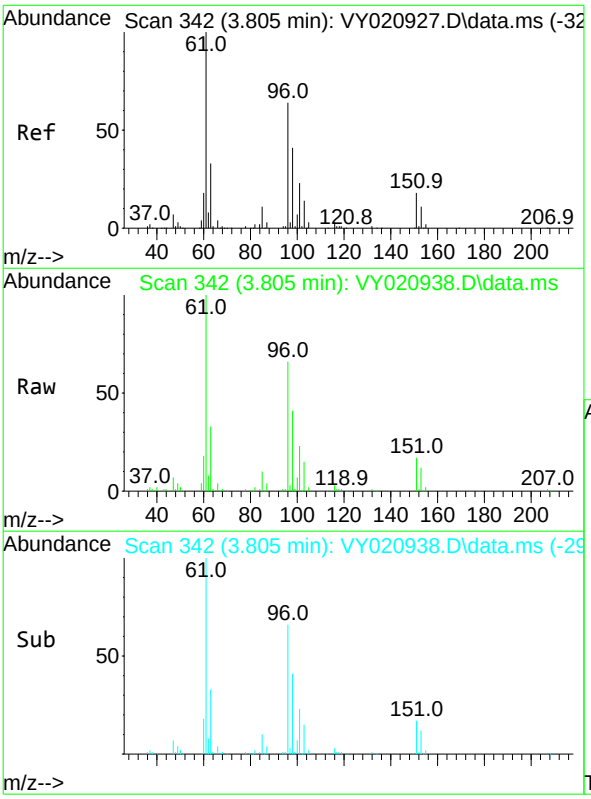
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.3 | 7.7 | 11.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

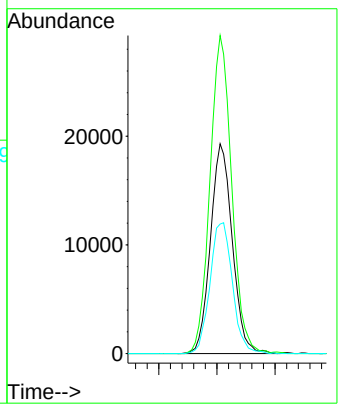


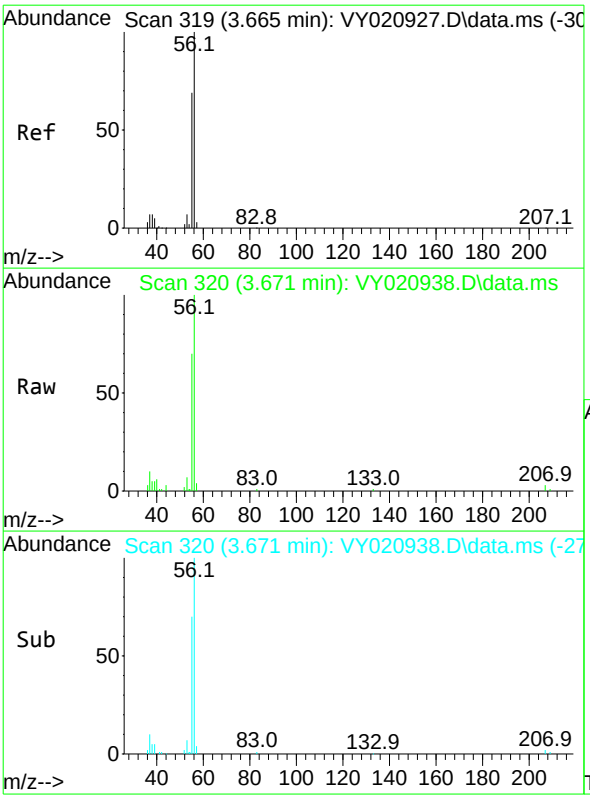




#12
1,1-Dichloroethene
Concen: 21.807 ug/l
RT: 3.805 min Scan# 342
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 96 Resp: 50393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 151.6 | 124.5 | 186.7 |
| 98 | 61.7 | 50.5 | 75.7 |






#13
Acrolein
Concen: 120.605 ug/l
RT: 3.671 min Scan# 32
Delta R.T. 0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

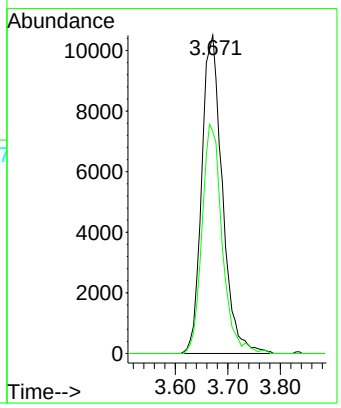
Tgt Ion: 56 Resp: 28649

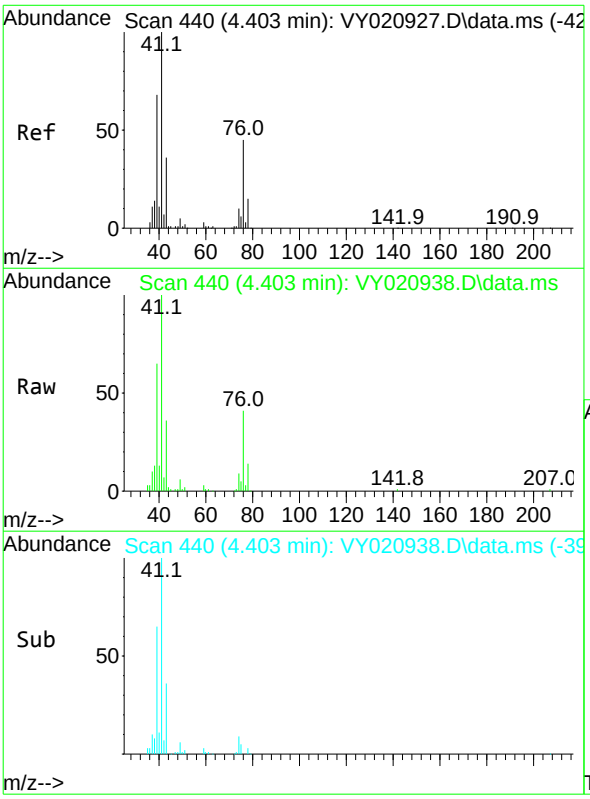
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.1 | 54.6 | 81.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

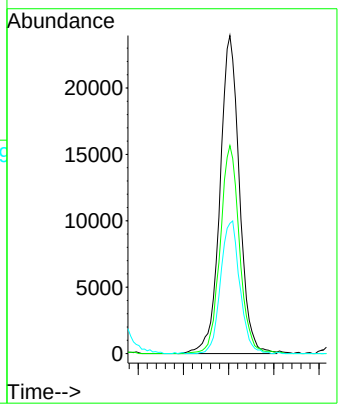


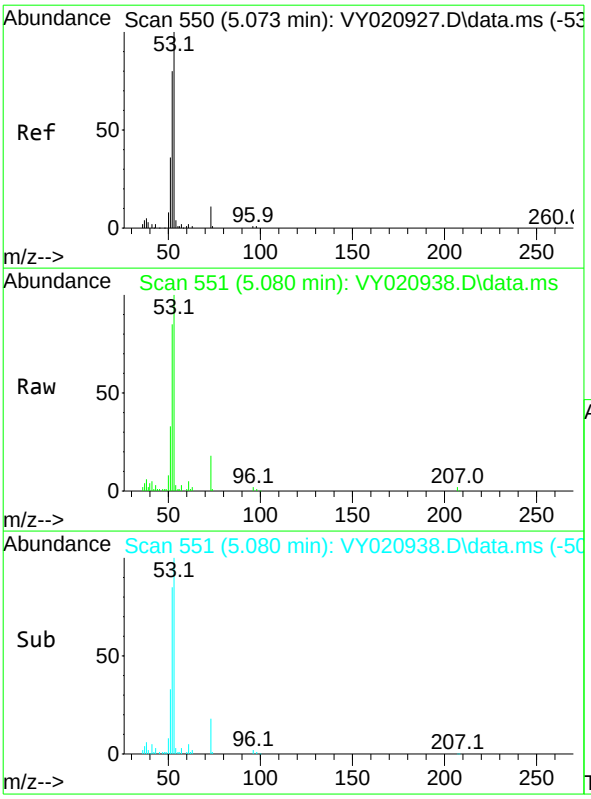




#14
Allyl chloride
Concen: 22.186 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 41 Resp: 71560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 64.9 | 53.8 | 80.6 |
| 76 | 41.2 | 34.2 | 51.4 |






#15
Acrylonitrile
Concen: 118.506 ug/l
RT: 5.080 min Scan# 55
Delta R.T. 0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

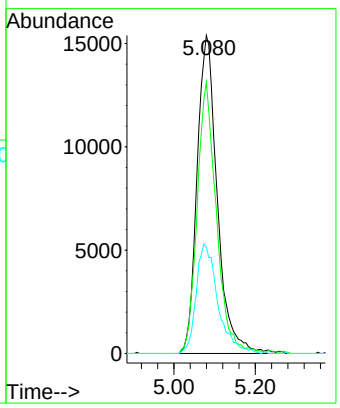
Tgt Ion: 53 Resp: 53095

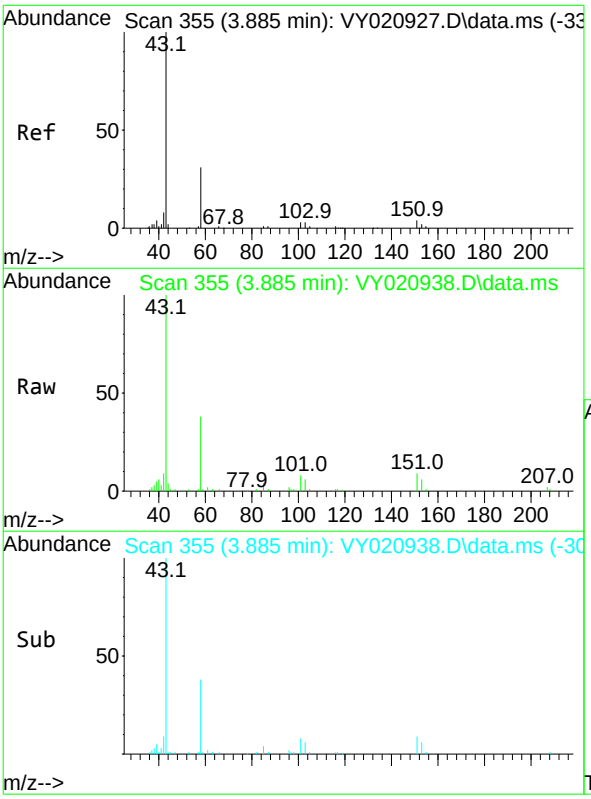
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.4 | 64.5 | 96.7 |
| 51 | 37.0 | 28.9 | 43.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

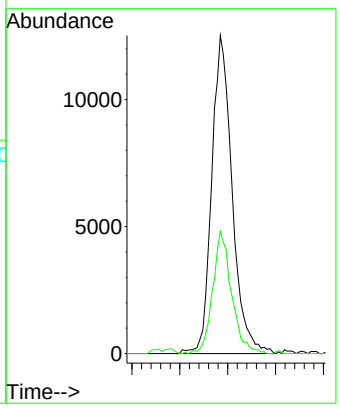


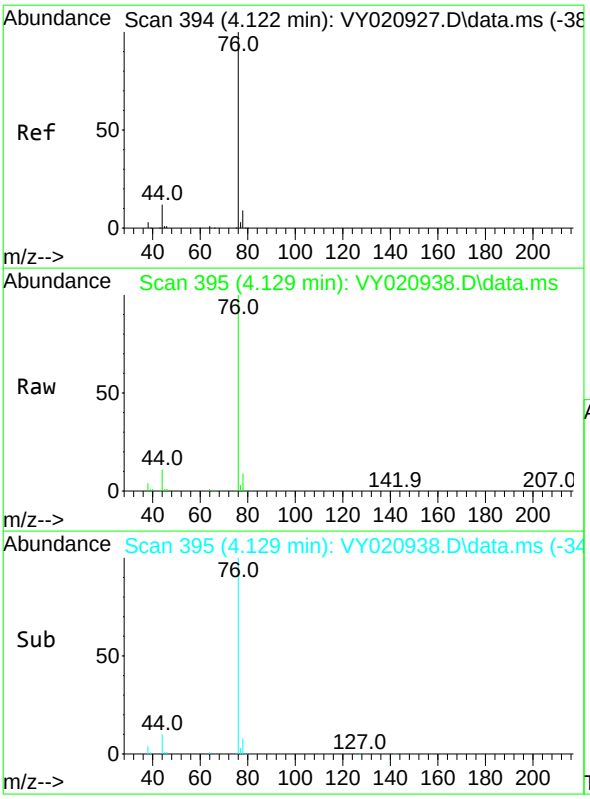




#16
Acetone
Concen: 120.743 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 43 Resp: 37133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.0 | 25.6 | 38.4 |






#17
Carbon Disulfide
Concen: 21.953 ug/l
RT: 4.129 min Scan# 39
Delta R.T. 0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

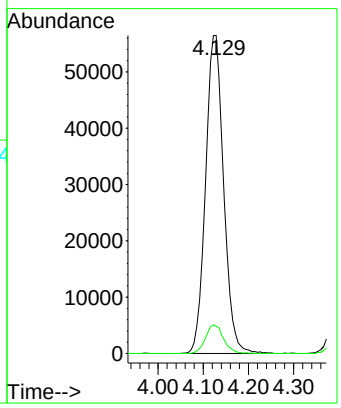
Tgt Ion: 76 Resp: 156670

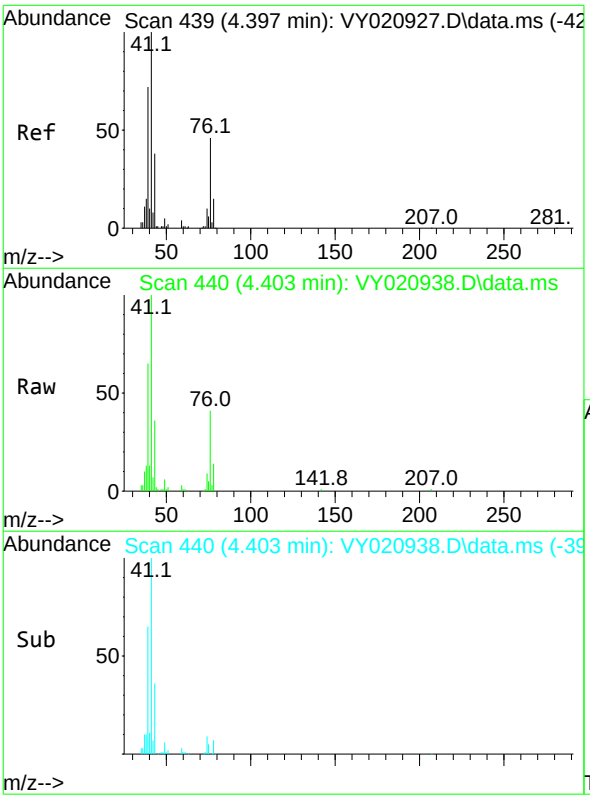
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.6 | 7.2 | 10.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

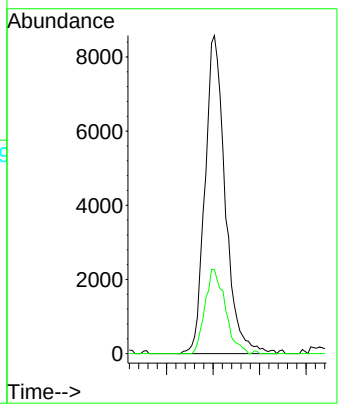


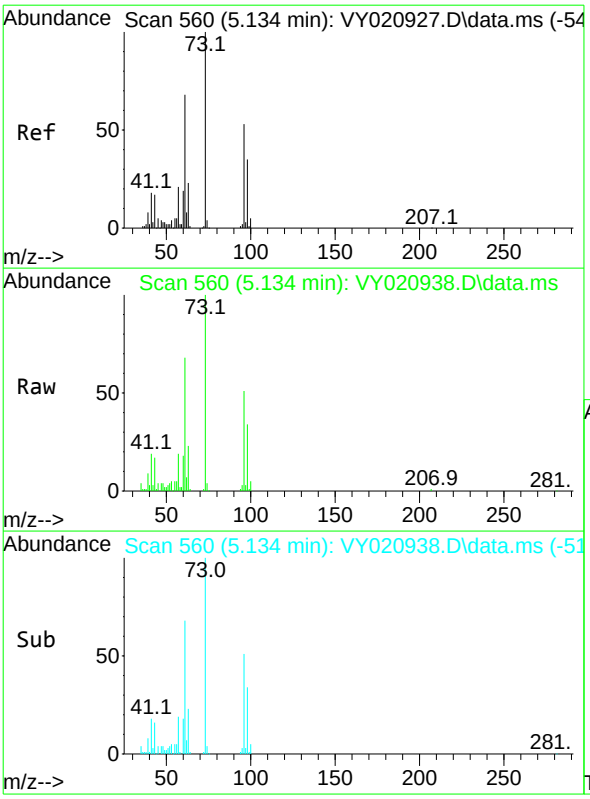




#18
Methyl Acetate
Concen: 23.335 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 43 Resp: 25924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.4 | 21.0 | 31.6 |






#19
Methyl tert-butyl Ether
Concen: 22.380 ug/l
RT: 5.134 min Scan# 56
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

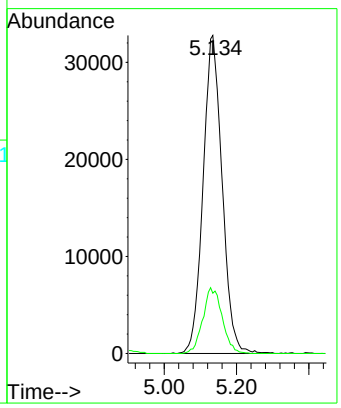
Tgt Ion: 73 Resp: 119786

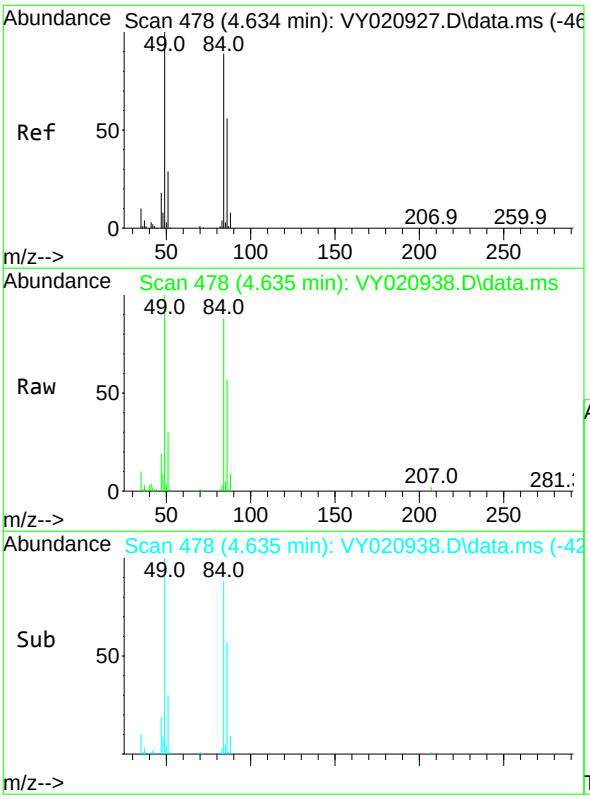
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 18.9 | 17.0 | 25.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

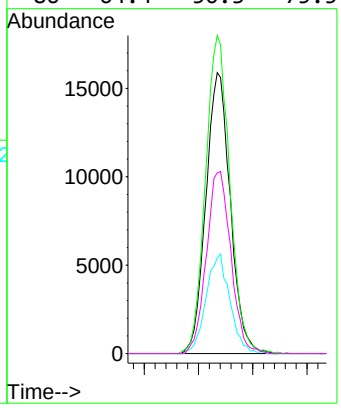


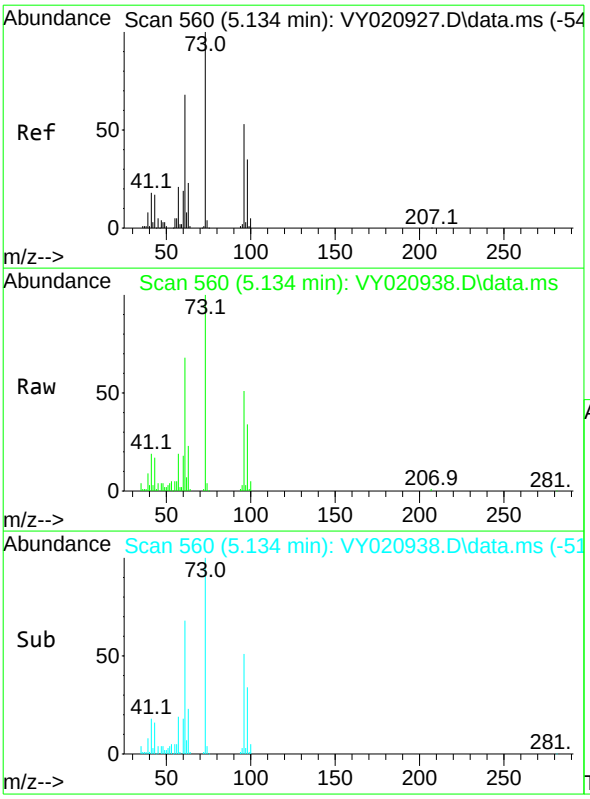




#20
Methylene Chloride
Concen: 21.715 ug/l
RT: 4.635 min Scan# 478
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 84 Resp: 49667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 113.2 | 90.3 | 135.5 |
| 51 | 34.0 | 26.6 | 39.8 |
| 86 | 64.4 | 50.3 | 75.5 |






#21
trans-1,2-Dichloroethene
Concen: 21.624 ug/l
RT: 5.134 min Scan# 56
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 96 Resp: 53877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.7 | 102.4 | 153.6 |
| 98 | 67.7 | 52.0 | 78.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
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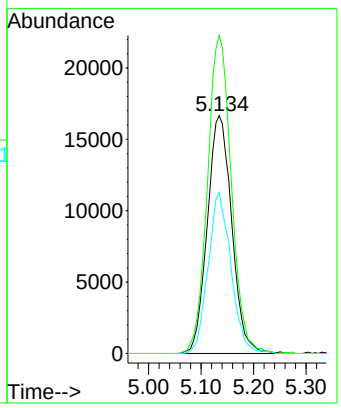
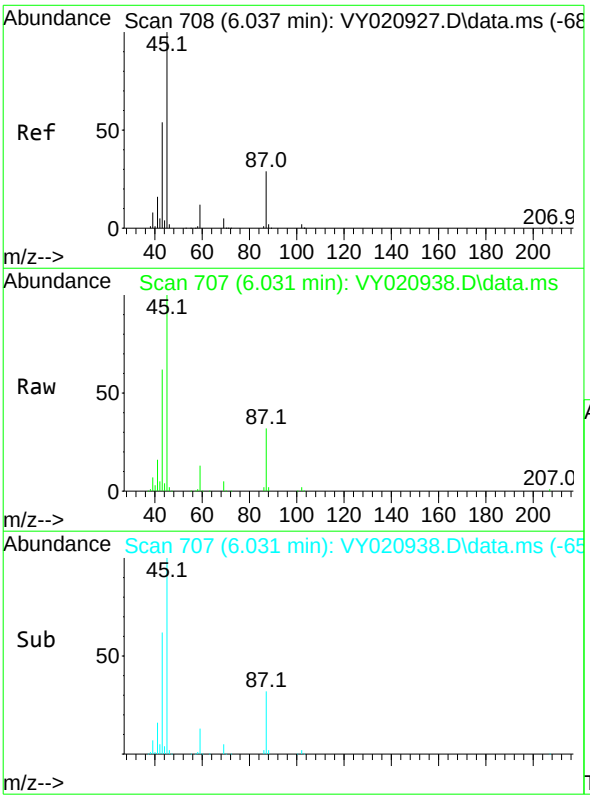
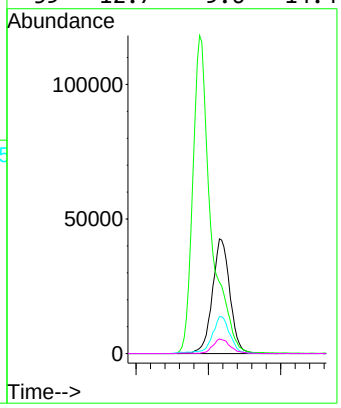


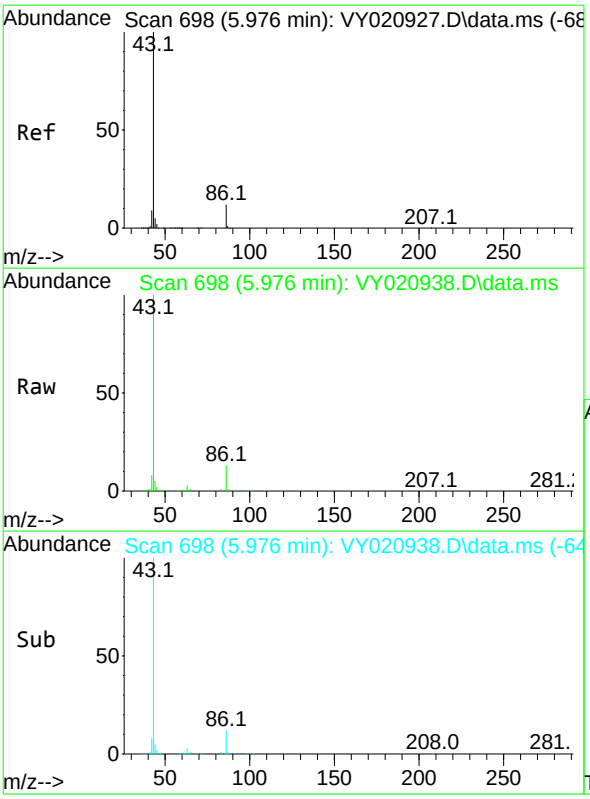




#22
Diisopropyl ether
Concen: 22.076 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 45 Resp: 143225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 61.6 | 43.2 | 64.8 |
| 87 | 32.1 | 23.4 | 35.0 |
| 59 | 12.7 | 9.6 | 14.4 |






#23
Vinyl Acetate
Concen: 114.402 ug/l
RT: 5.976 min Scan# 69
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

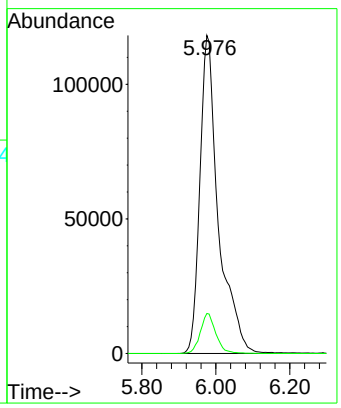
Tgt Ion: 43 Resp: 410775

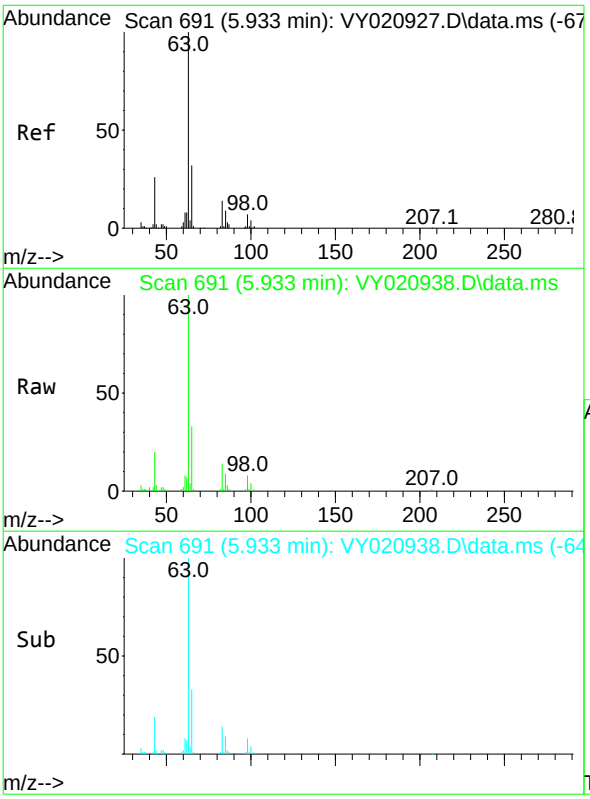
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.6 | 9.8 | 14.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

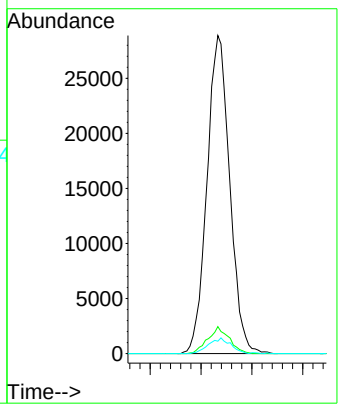


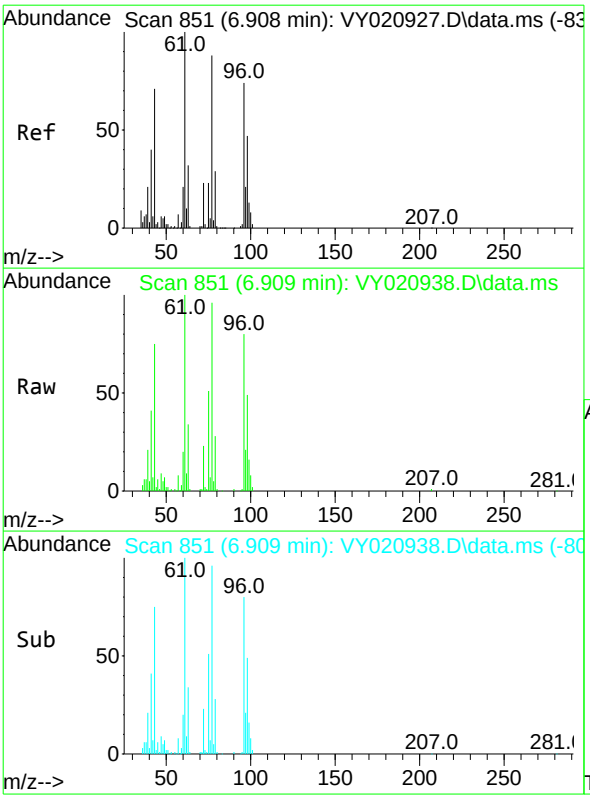




#24
1,1-Dichloroethane
Concen: 21.810 ug/l
RT: 5.933 min Scan# 691
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 63 Resp: 89697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.5 | 3.7 | 11.1 |
| 100 | 3.9 | 2.3 | 6.8 |






#25
2-Butanone
Concen: 118.564 ug/l
RT: 6.909 min Scan# 85
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 43 Resp: 61766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 31.1 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
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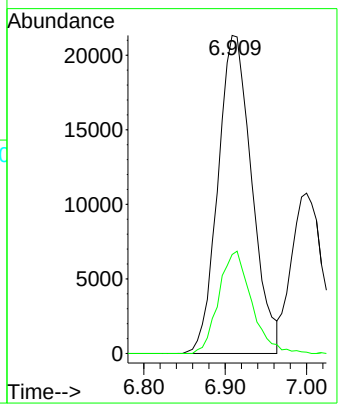
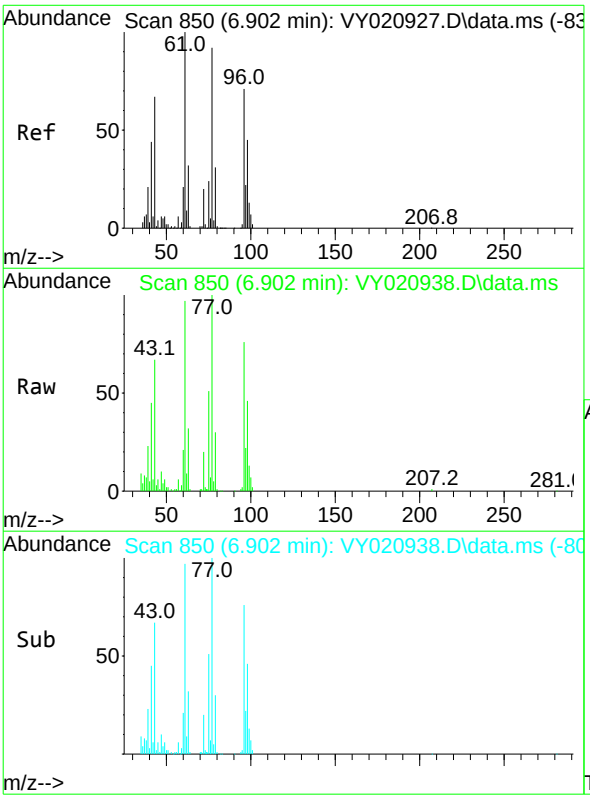
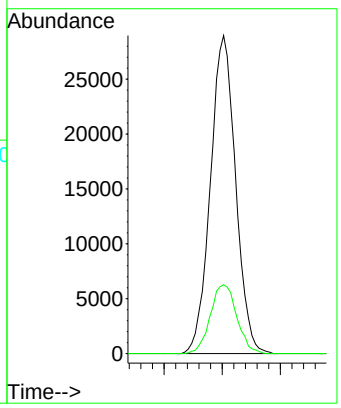


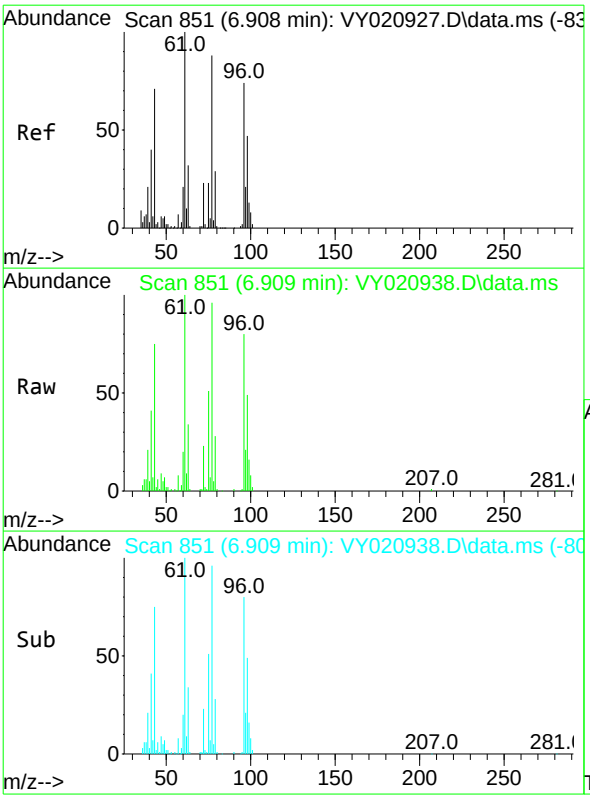




#26
2,2-Dichloropropane
Concen: 21.535 ug/l
RT: 6.902 min Scan# 850
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 77 Resp: 87236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.7 | 11.7 | 35.1 |






#27
cis-1,2-Dichloroethene
Concen: 21.702 ug/l
RT: 6.909 min Scan# 85
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

Tgt Ion: 96 Resp: 61025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.6 | 0.0 | 275.2 |
| 98 | 63.6 | 0.0 | 129.6 |

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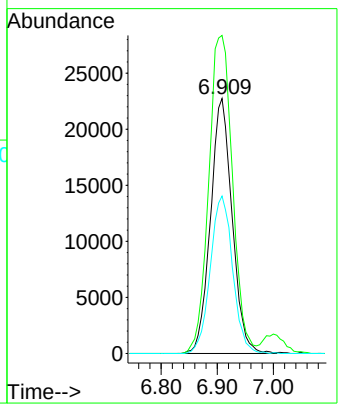
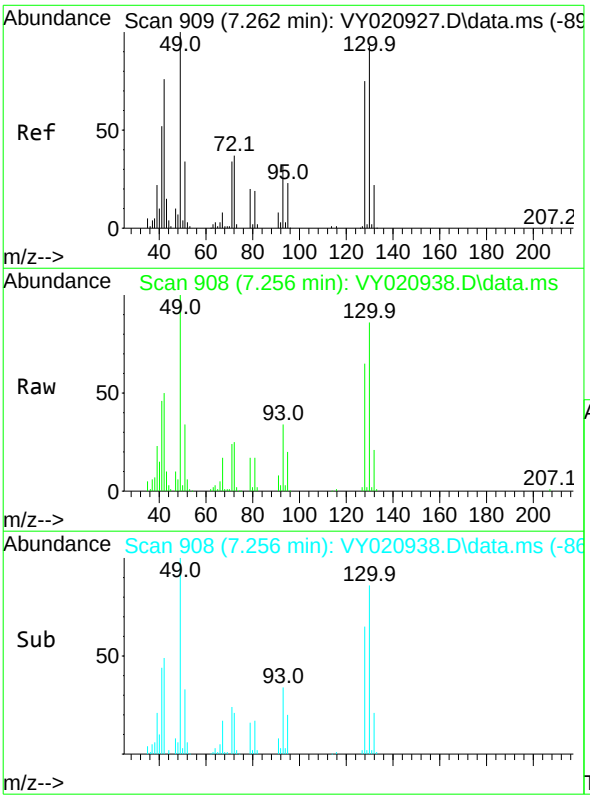
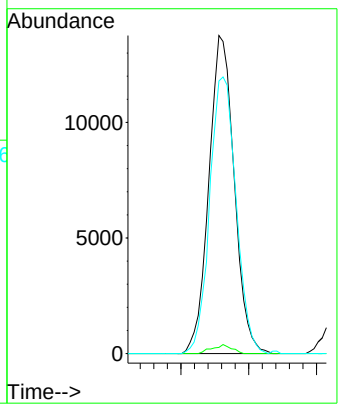


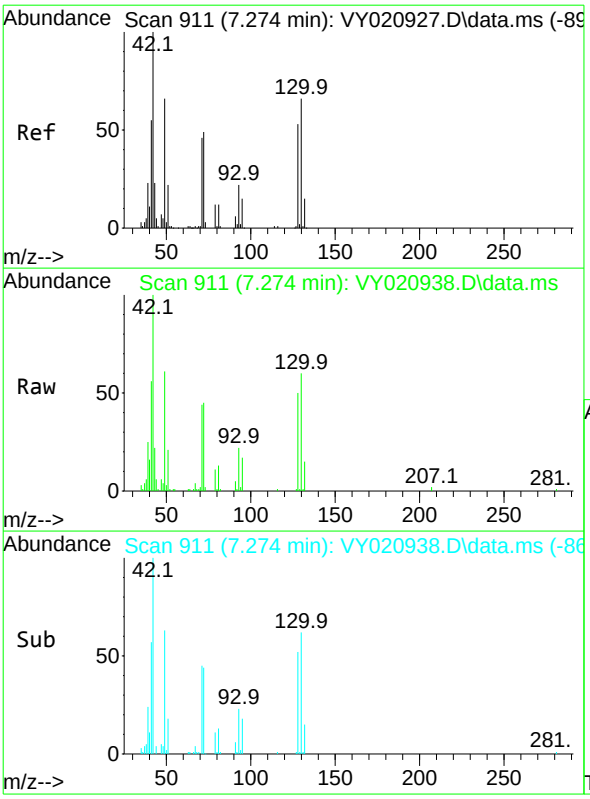




#28
Bromochloromethane
Concen: 21.588 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 49 Resp: 35732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.6 |
| 130 | 90.2 | 72.6 | 109.0 |






#29
Tetrahydrofuran
Concen: 120.850 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 42 Resp: 41958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 49.0 | 38.8 | 58.2 |
| 71 | 45.2 | 36.4 | 54.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
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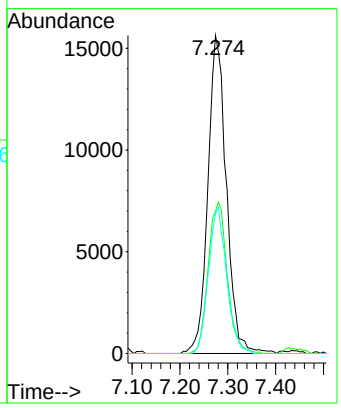
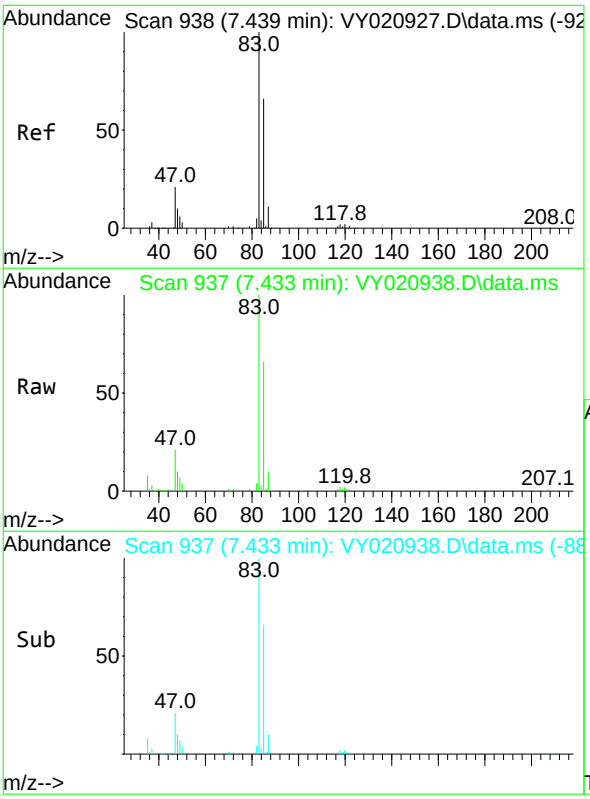
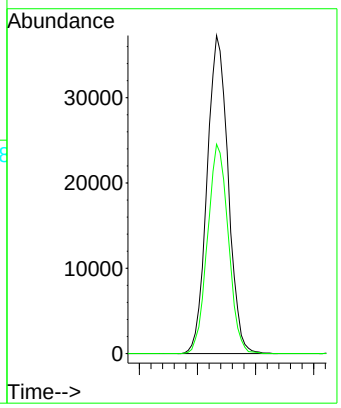


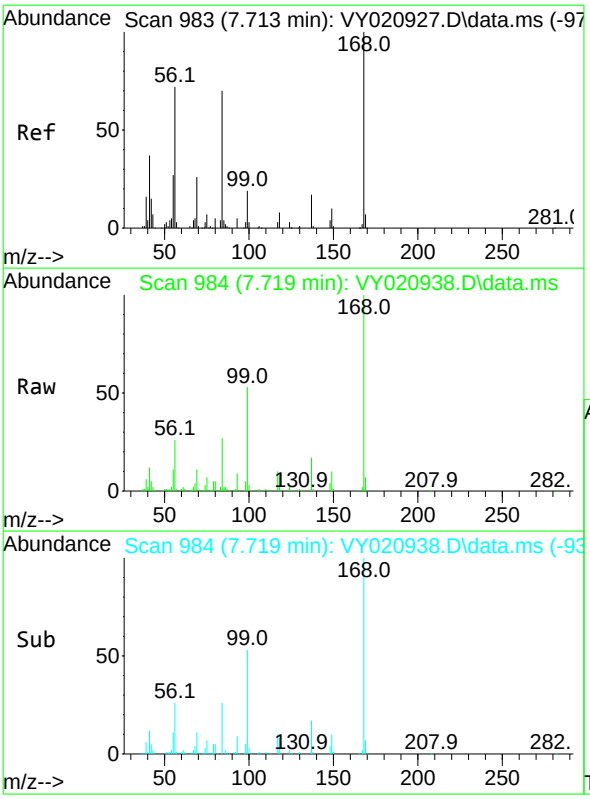




#30
Chloroform
Concen: 21.575 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 83 Resp: 93910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.8 | 53.0 | 79.4 |






#31
Cyclohexane
Concen: 21.060 ug/l
RT: 7.719 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 56 Resp: 85125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 41.4 | 28.7 | 43.1 |
| 84 | 100.1 | 77.4 | 116.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

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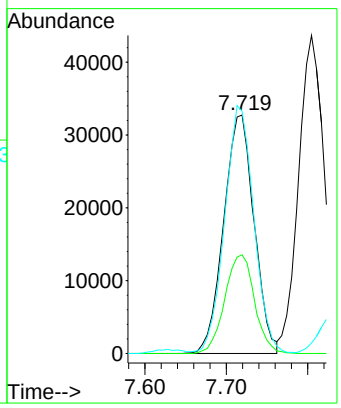
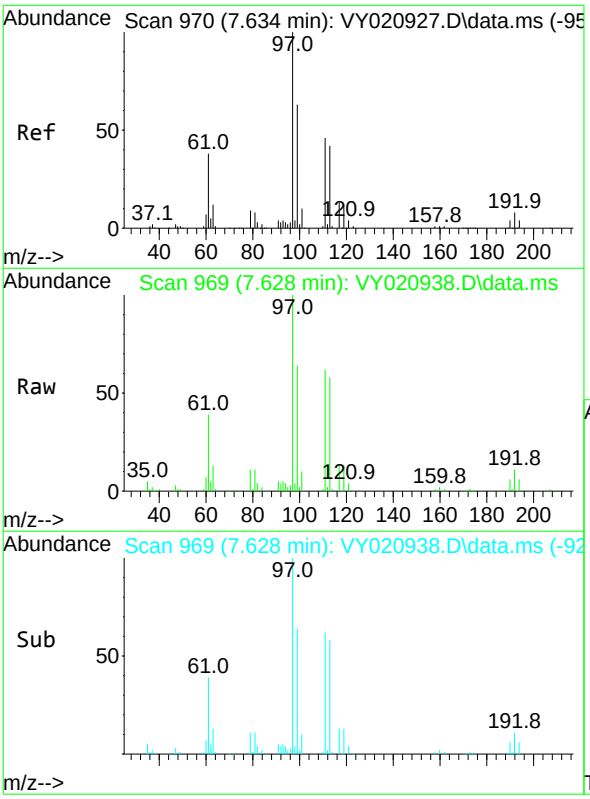
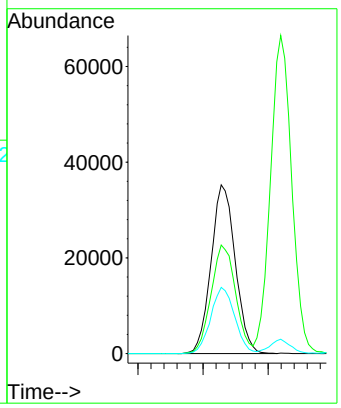


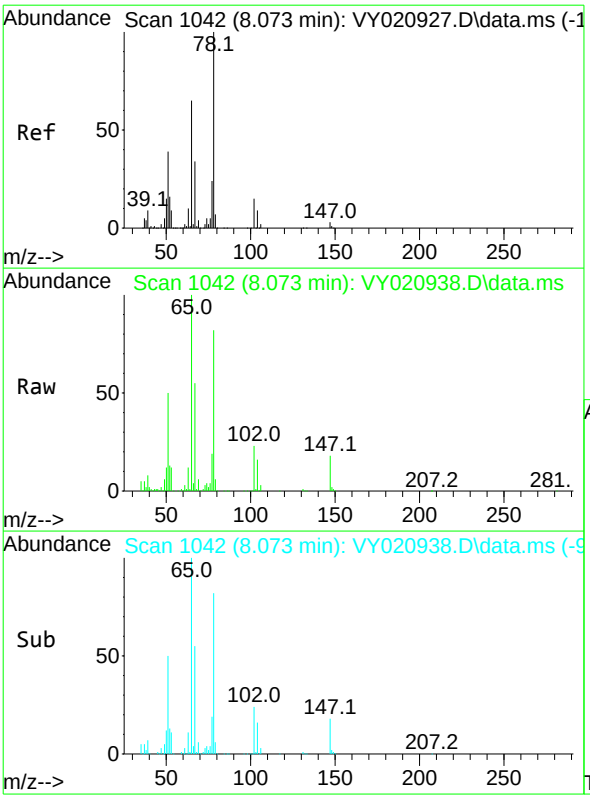




#32
1,1,1-Trichloroethane
Concen: 21.566 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 97 Resp: 91052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.4 | 51.7 | 77.5 |
| 61 | 39.0 | 30.8 | 46.2 |






#33
1,2-Dichloroethane-d4
Concen: 48.538 ug/l
RT: 8.073 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 65 Resp: 110174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.1 | 0.0 | 105.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

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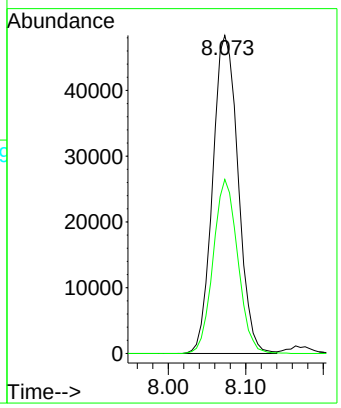
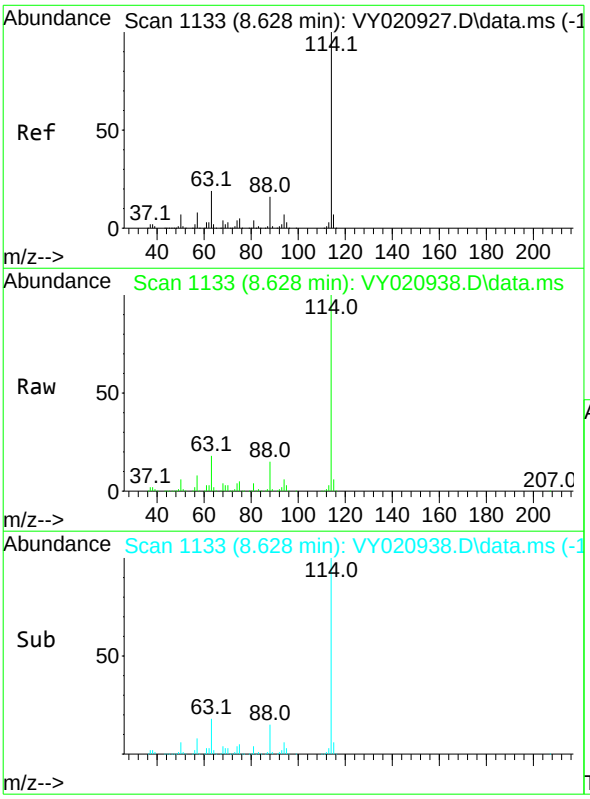
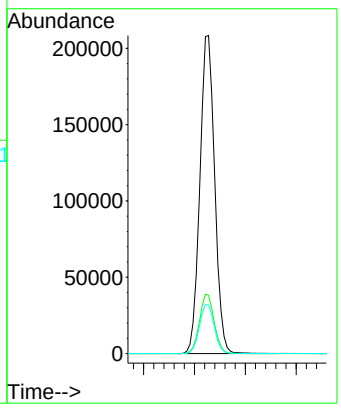


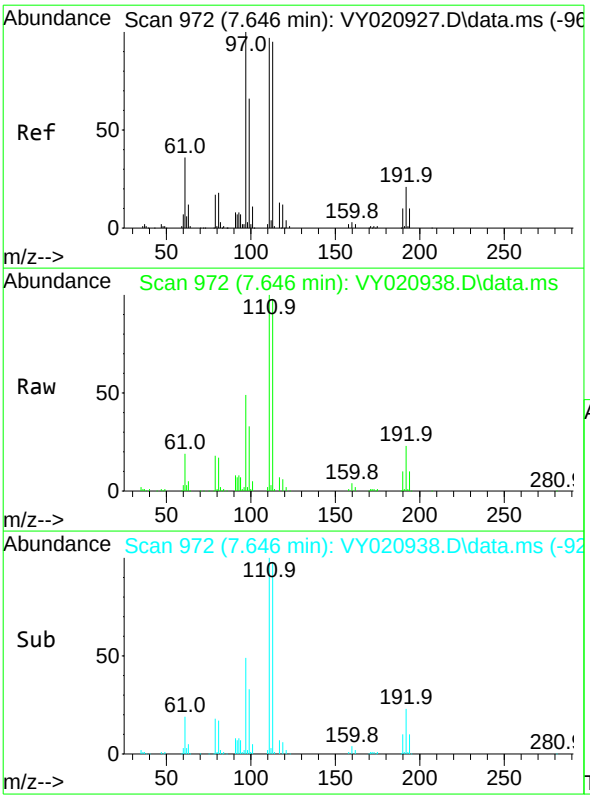




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.628 min Scan# 1133
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:114 Resp: 421508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.3 | 0.0 | 38.4 |
| 88 | 15.3 | 0.0 | 31.6 |






#35
Dibromofluoromethane
Concen: 47.011 ug/l
RT: 7.646 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:113 Resp: 113757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.3 | 82.3 | 123.5 |
| 192 | 21.8 | 17.4 | 26.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
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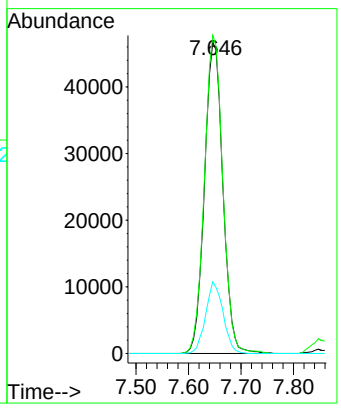
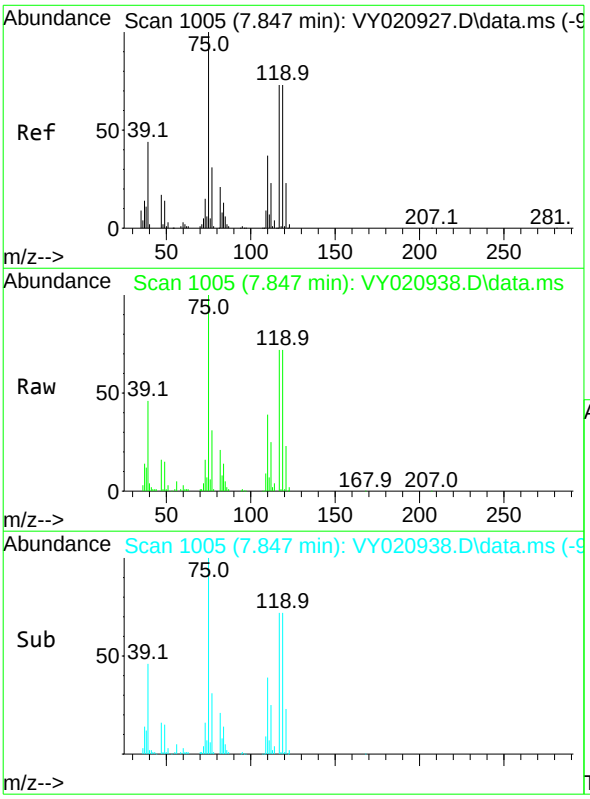
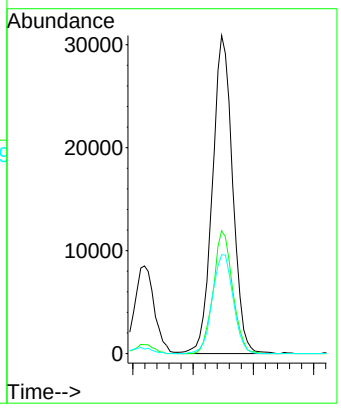


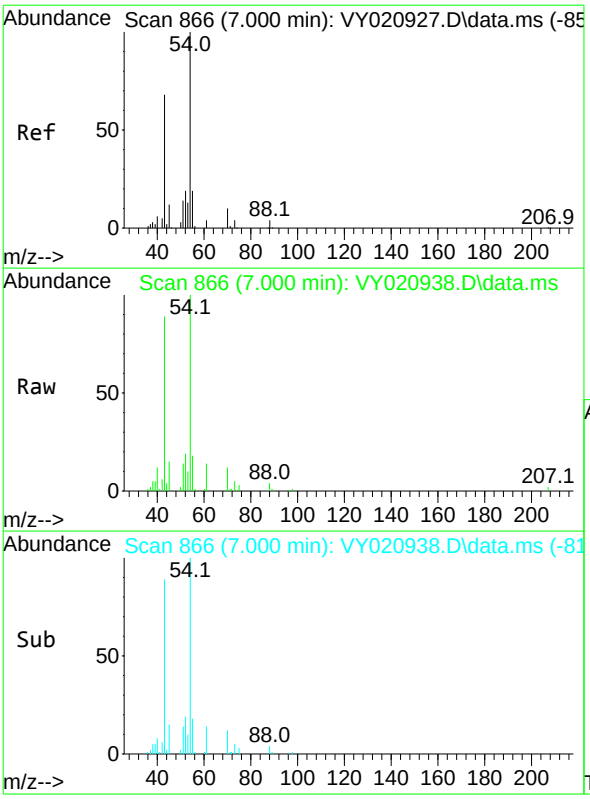




#36
1,1-Dichloropropene
Concen: 21.275 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 75 Resp: 71879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.9 | 18.5 | 55.5 |
| 77 | 32.2 | 25.0 | 37.4 |






#37
Ethyl Acetate
Concen: 22.995 ug/l
RT: 7.000 min Scan# 86
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 43 Resp: 30141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.4 | 12.1 | 18.1 |
| 70 | 11.7 | 9.5 | 14.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
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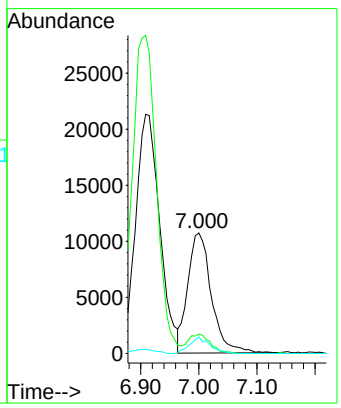
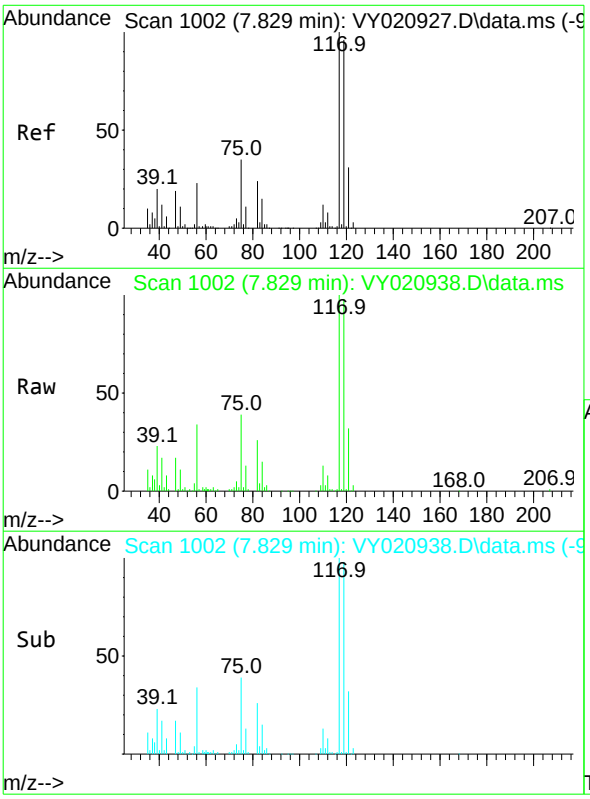
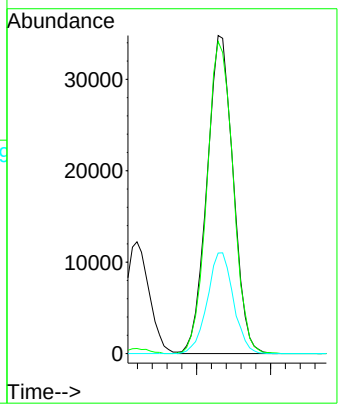


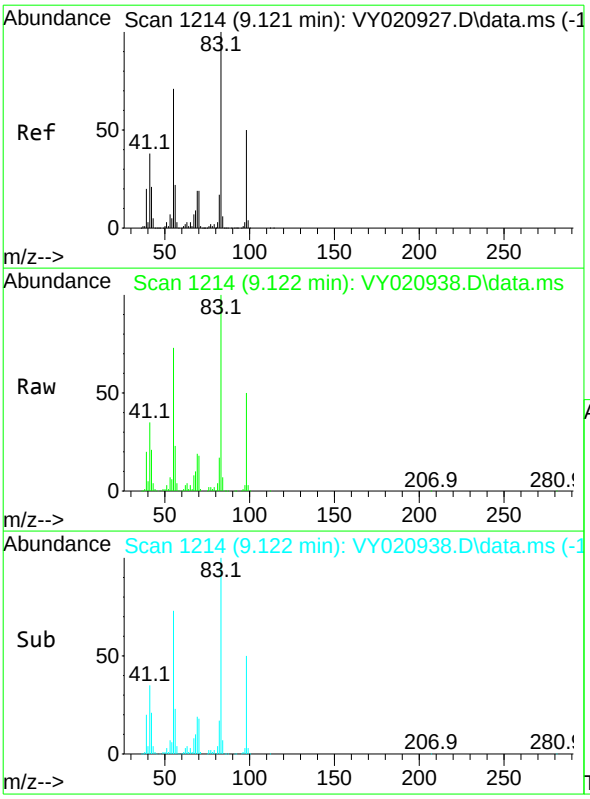




#38
Carbon Tetrachloride
Concen: 21.011 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:117 Resp: 85604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.9 | 76.5 | 114.7 |
| 121 | 31.6 | 25.0 | 37.4 |






#39
Methylcyclohexane
Concen: 20.958 ug/l
RT: 9.122 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 83 Resp: 95857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 73.4 | 57.0 | 85.4 |
| 98 | 49.6 | 40.1 | 60.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
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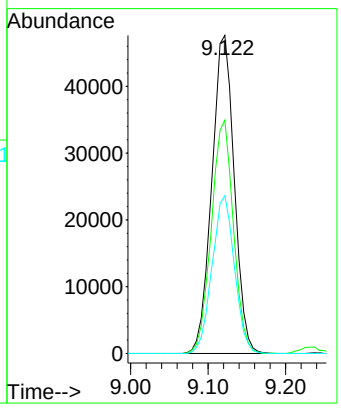
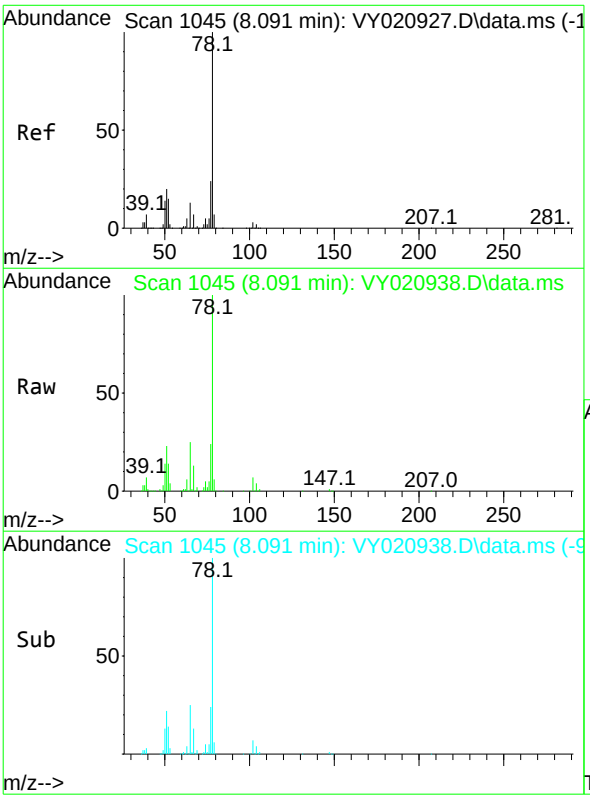
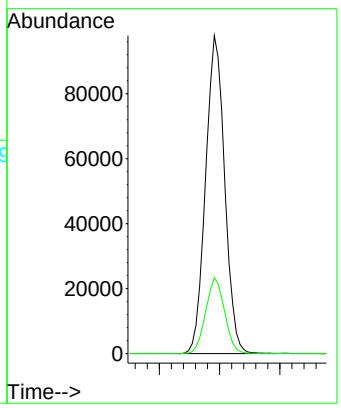


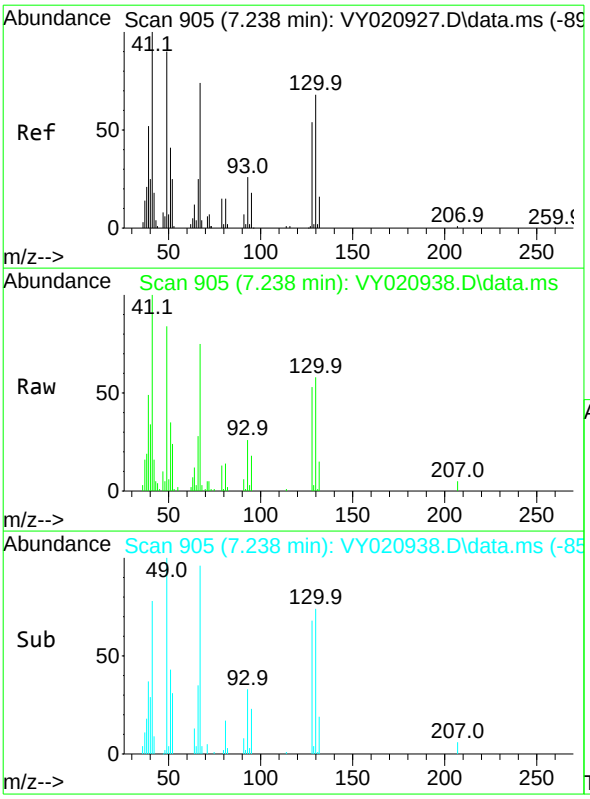




#40
Benzene
Concen: 21.736 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 78 Resp: 215434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 26.807 ug/l
RT: 7.238 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 41 Resp: 18562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 45.7 | 46.4 | 69.6# |
| 67 | 73.2 | 66.7 | 100.1 |
| 52 | 27.9 | 24.6 | 37.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
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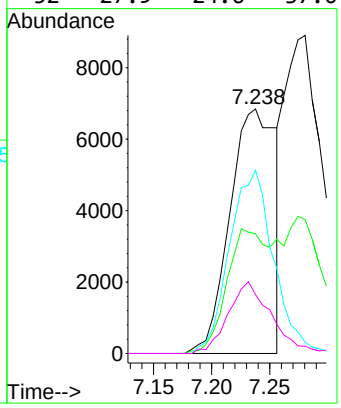
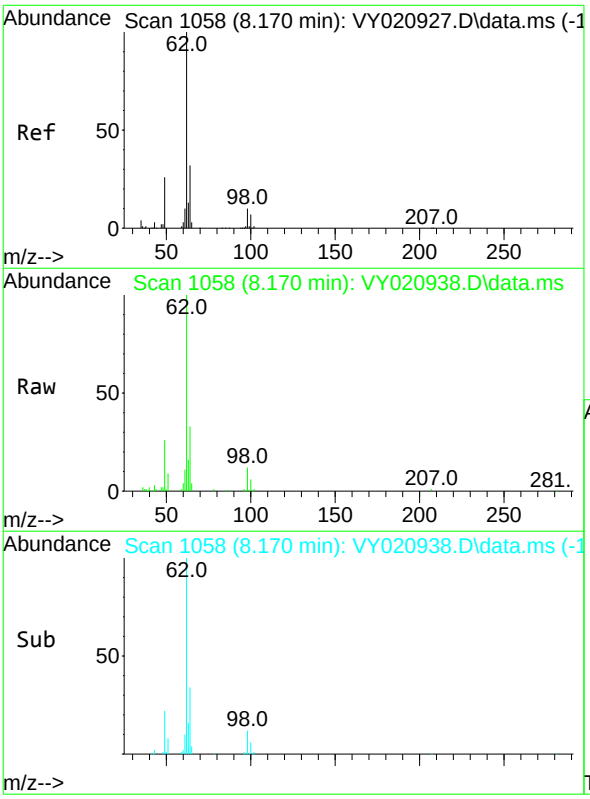
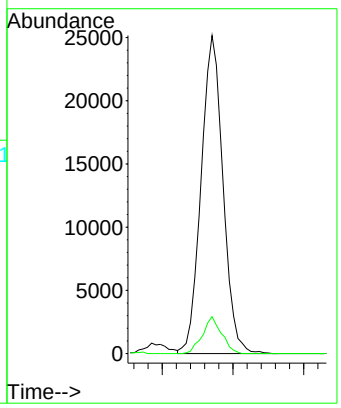


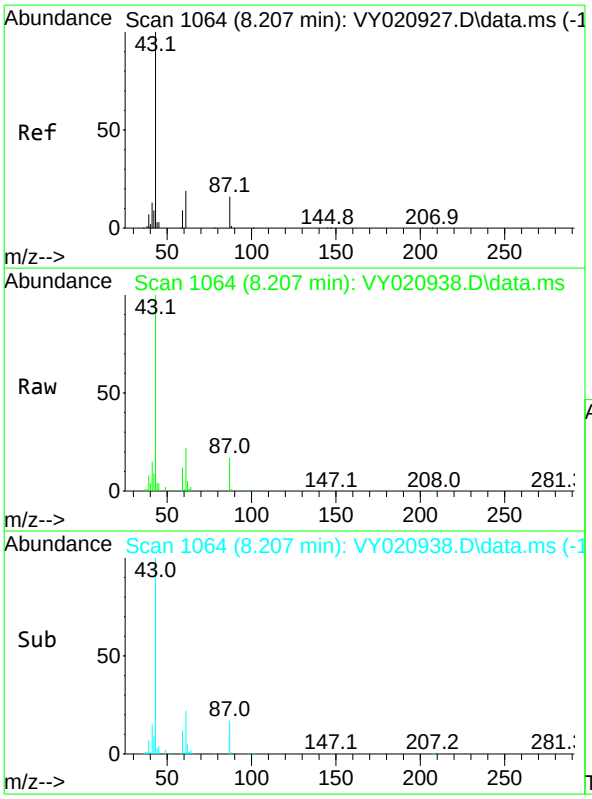




#42
1,2-Dichloroethane
Concen: 21.908 ug/l
RT: 8.170 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 62 Resp: 54032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.1 | 0.0 | 19.8 |






#43
Isopropyl Acetate
Concen: 22.812 ug/l
RT: 8.207 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

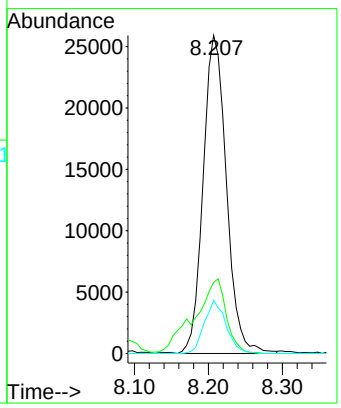
Tgt Ion: 43 Resp: 56703

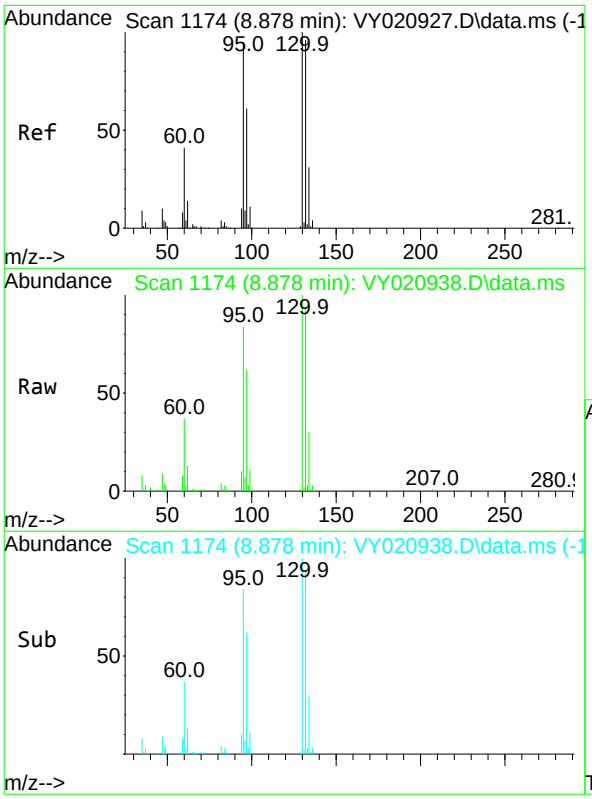
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 32.4 | 26.0 | 39.0 |
| 87 | 15.6 | 12.4 | 18.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

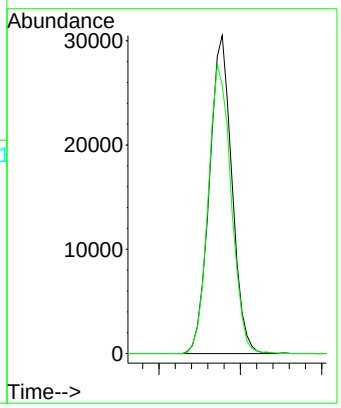


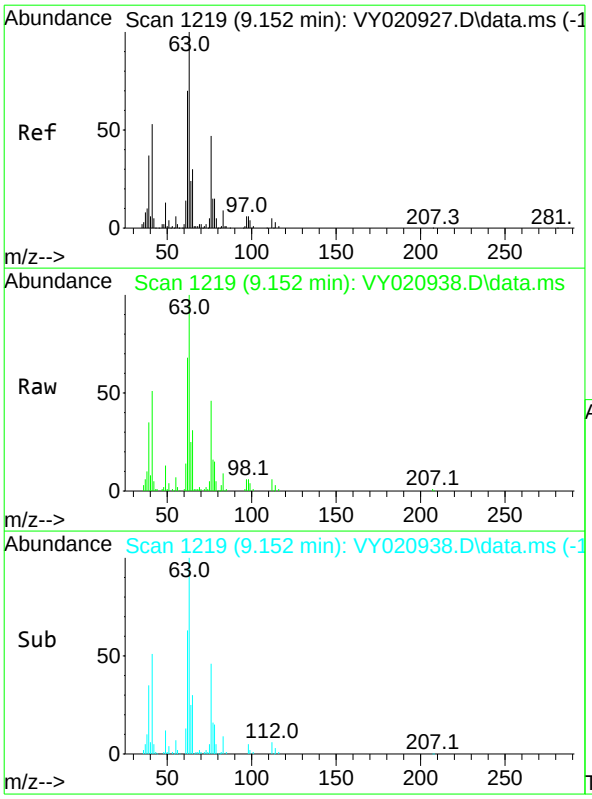




#44
Trichloroethene
Concen: 21.752 ug/l
RT: 8.878 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:130 Resp: 58573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 84.3 | 0.0 | 189.4 |






#45
1,2-Dichloropropane
Concen: 21.383 ug/l
RT: 9.152 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

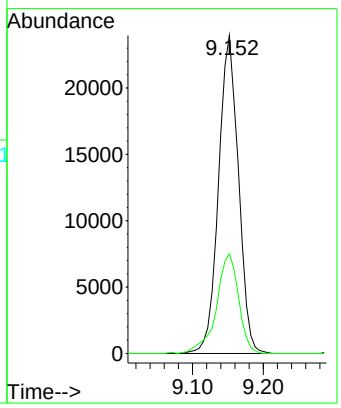
Tgt Ion: 63 Resp: 46784

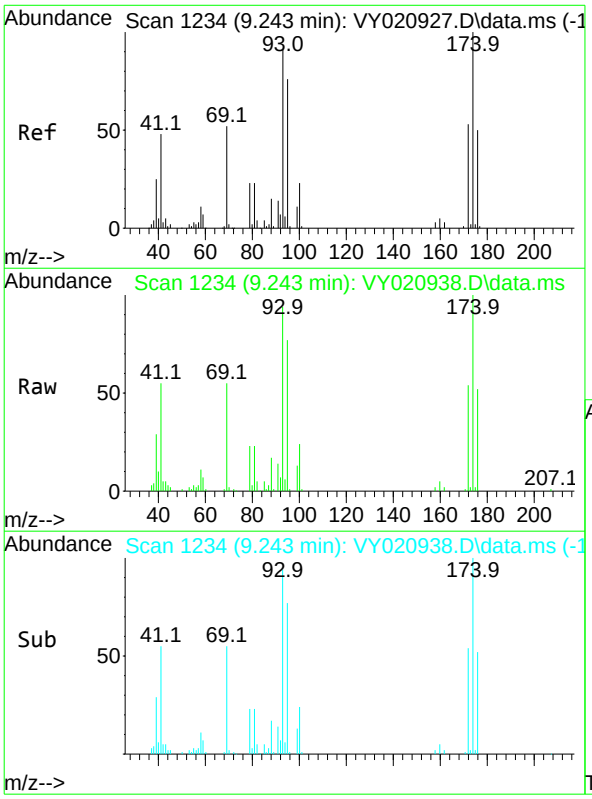
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.3 | 23.9 | 35.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

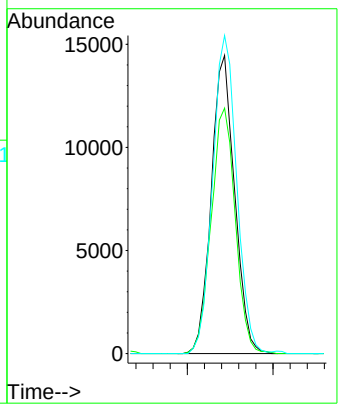


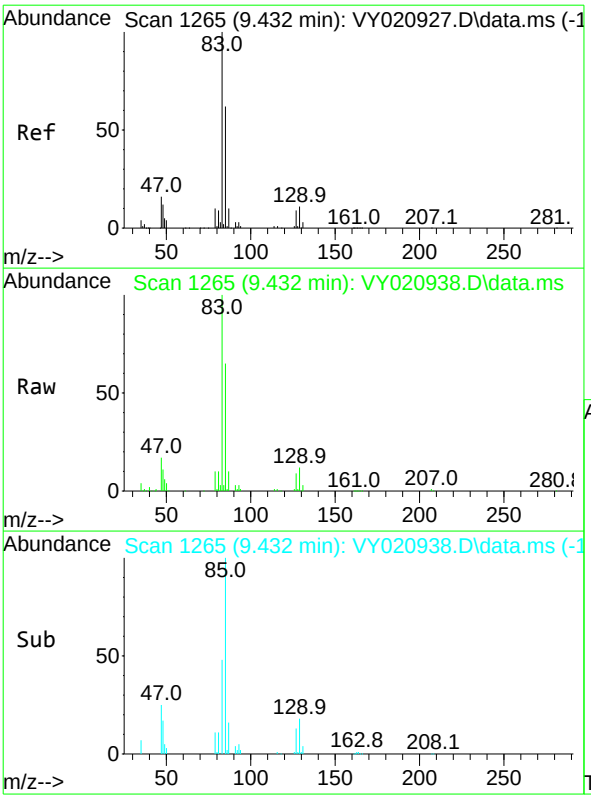




#46
Dibromomethane
Concen: 22.029 ug/l
RT: 9.243 min Scan# 1234
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 93 Resp: 27400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 84.7 | 66.2 | 99.2 |
| 174 | 110.0 | 87.0 | 130.4 |






#47
Bromodichloromethane
Concen: 21.417 ug/l
RT: 9.432 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

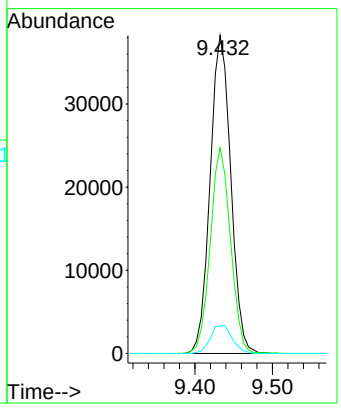
Tgt Ion: 83 Resp: 70879

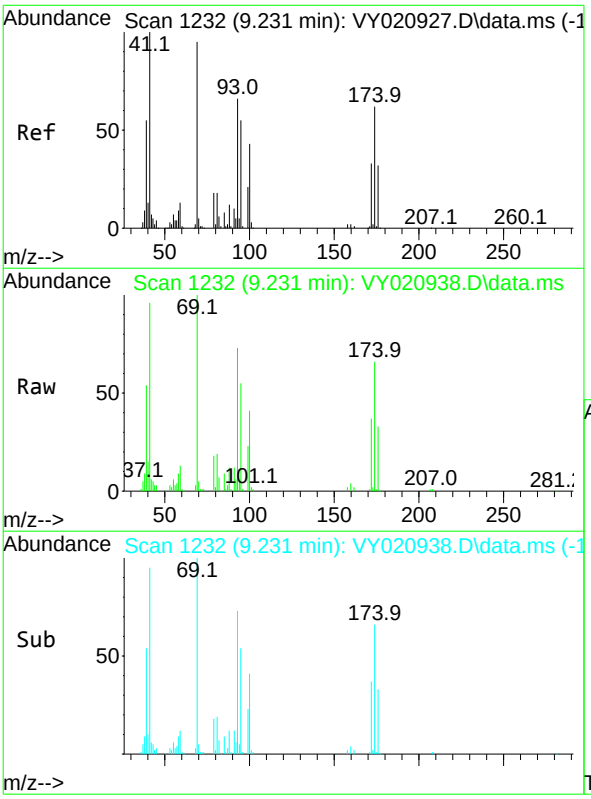
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.7 | 49.3 | 73.9 |
| 127 | 8.6 | 7.4 | 11.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

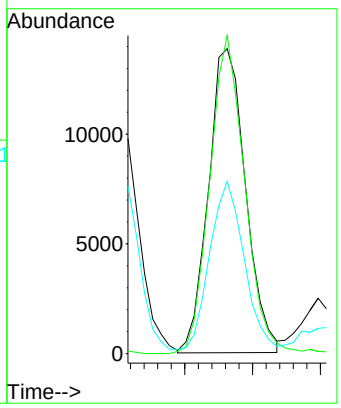


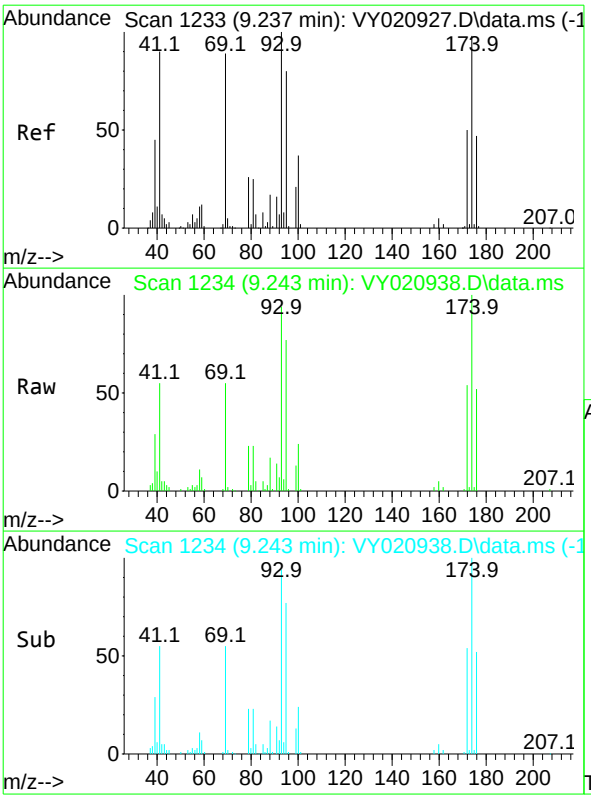




#48
Methyl methacrylate
Concen: 22.474 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 41 Resp: 26351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 99.0 | 77.0 | 115.4 |
| 39 | 51.0 | 41.1 | 61.7 |






#49
1,4-Dioxane
Concen: 471.706 ug/l
RT: 9.243 min Scan# 12
Delta R.T. 0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

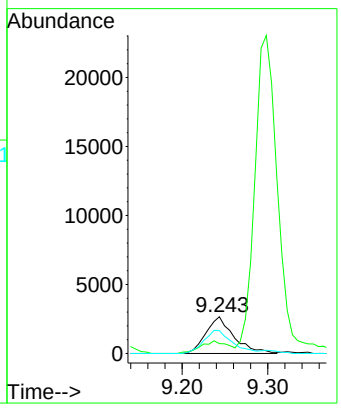
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

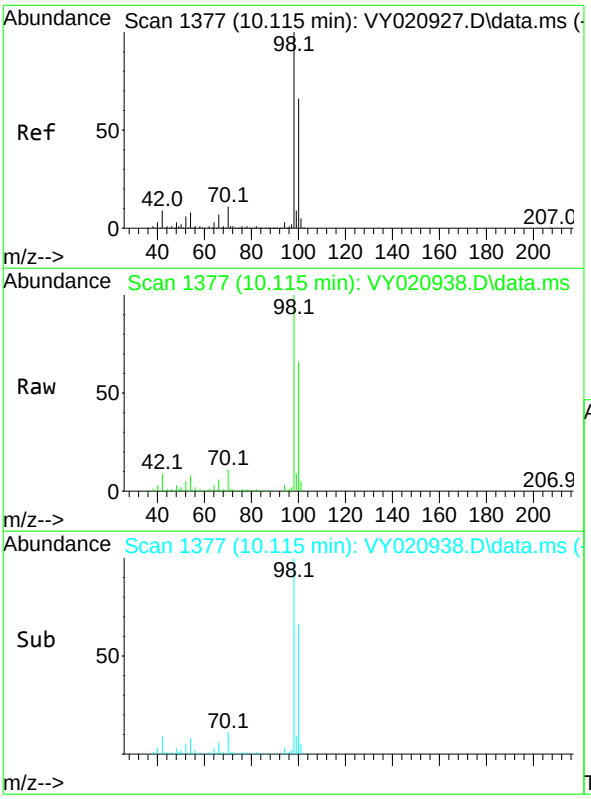
Tgt Ion: 88 Resp: 6041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.7 | 23.1 | 34.7 |
| 58 | 64.6 | 49.0 | 73.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

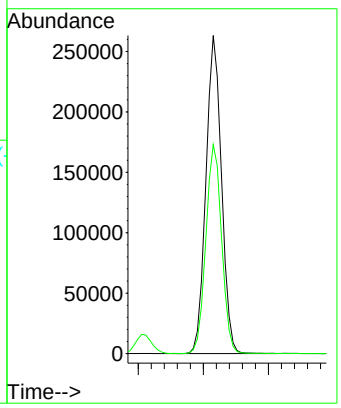


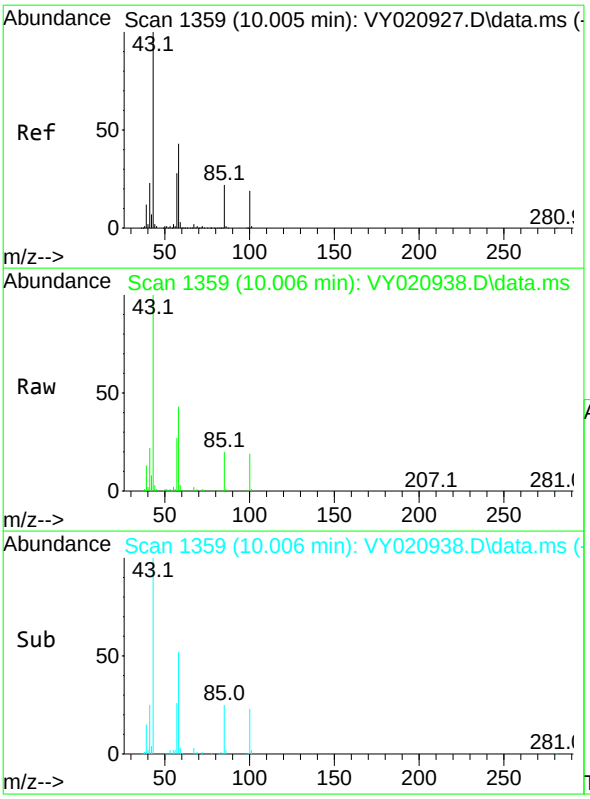




#50
Toluene-d8
Concen: 46.579 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 98 Resp: 437191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.6 | 52.3 | 78.5 |






#51
4-Methyl-2-Pentanone
Concen: 115.278 ug/l
RT: 10.006 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

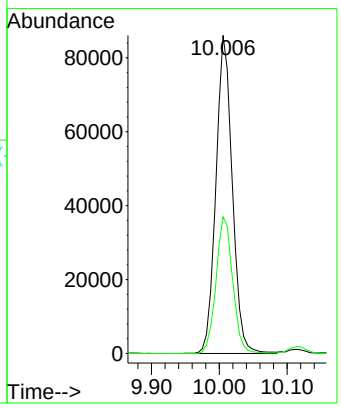
Tgt Ion: 43 Resp: 144479

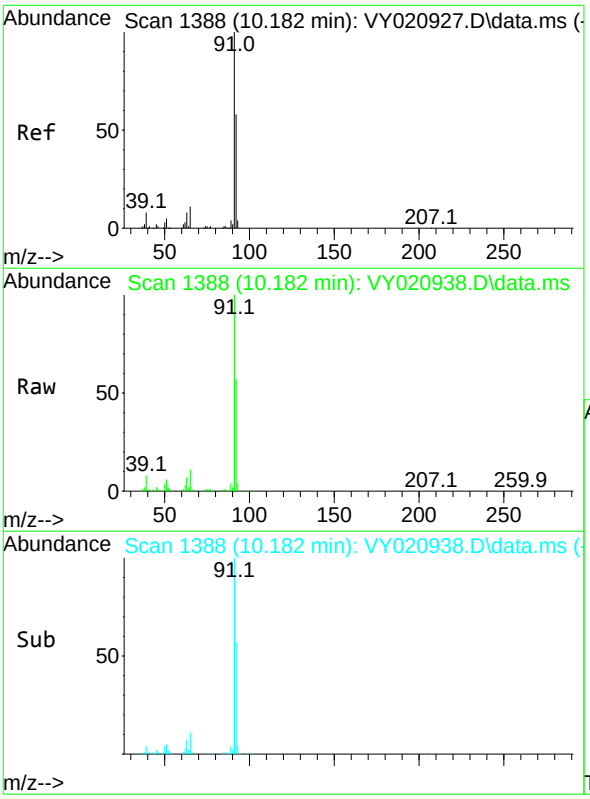
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.6 | 33.7 | 50.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

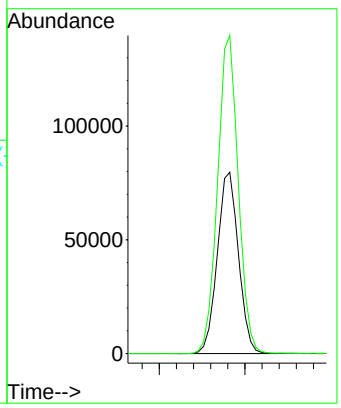


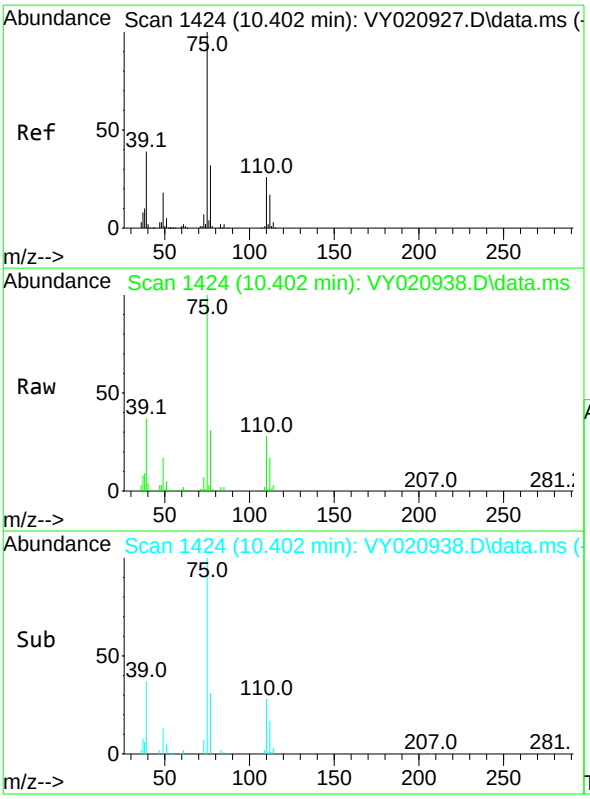




#52
Toluene
Concen: 21.426 ug/l
RT: 10.182 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 92 Resp: 136581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.7 | 137.3 | 205.9 |






#53
t-1,3-Dichloropropene
Concen: 22.013 ug/l
RT: 10.402 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

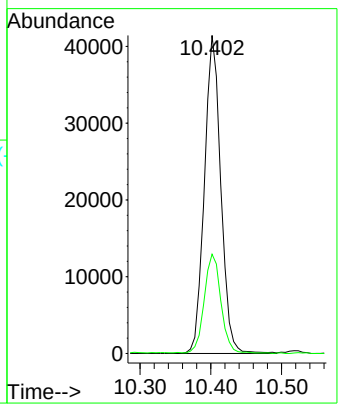
Tgt Ion: 75 Resp: 66799

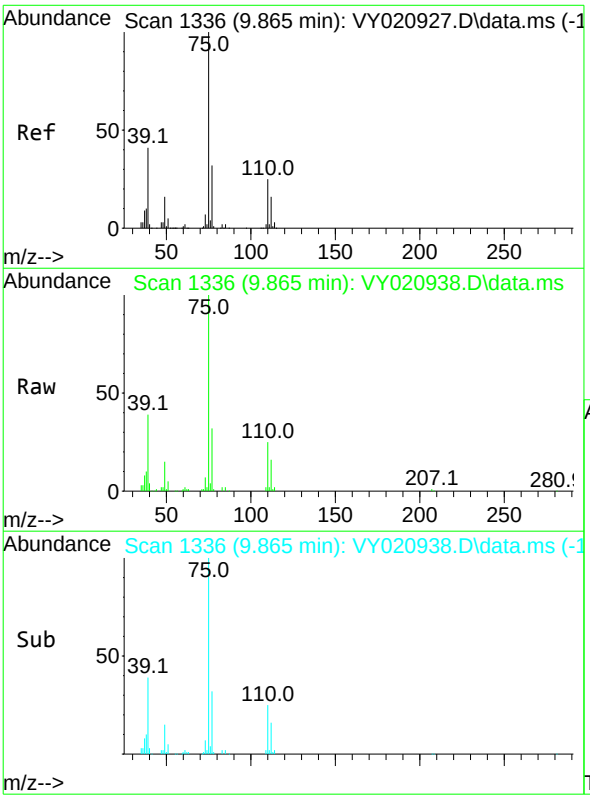
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.1 | 25.4 | 38.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

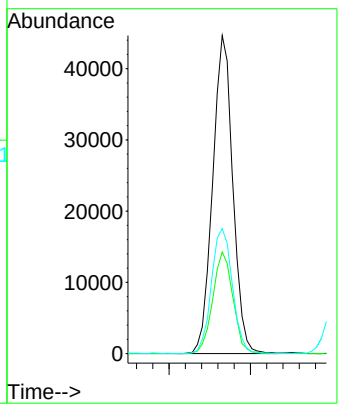


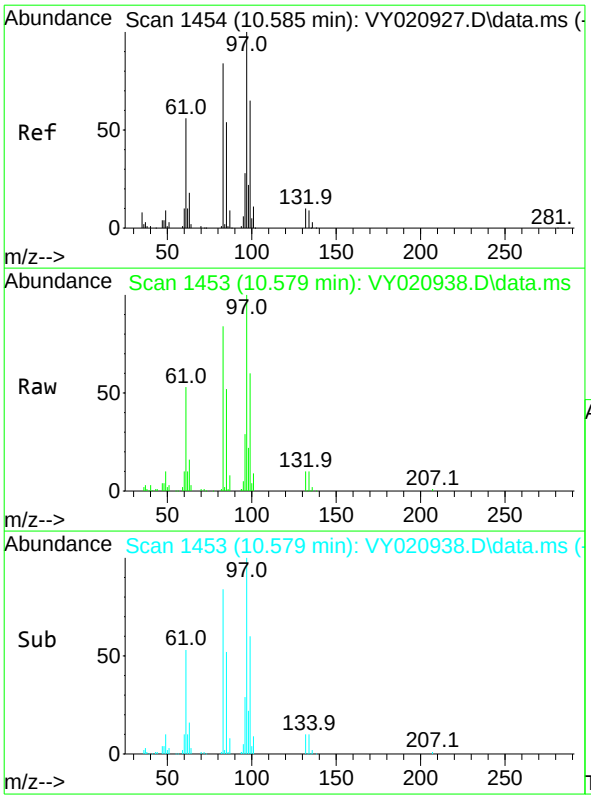




#54
cis-1,3-Dichloropropene
Concen: 21.175 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 75 Resp: 76726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.0 | 25.7 | 38.5 |
| 39 | 39.3 | 32.8 | 49.2 |






#55
1,1,2-Trichloroethane
Concen: 22.493 ug/l
RT: 10.579 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

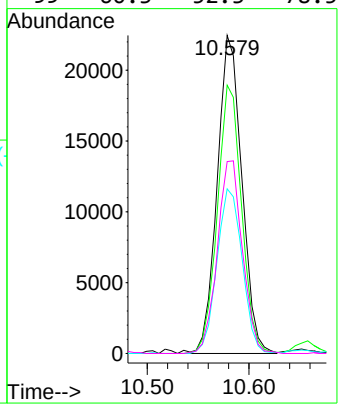
Tgt Ion: 97 Resp: 37817

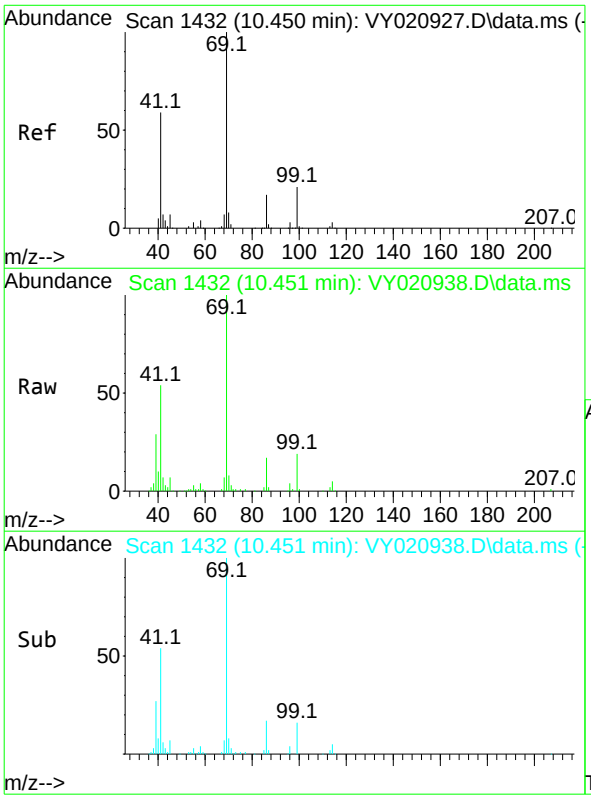
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.4 | 67.0 | 100.6 |
| 85 | 51.8 | 43.1 | 64.7 |
| 99 | 60.3 | 52.3 | 78.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

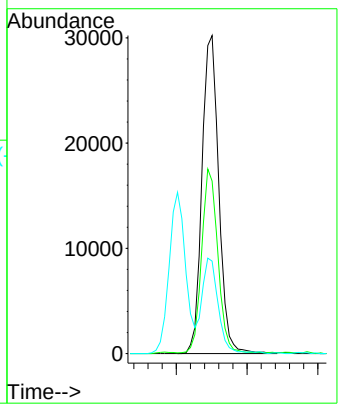


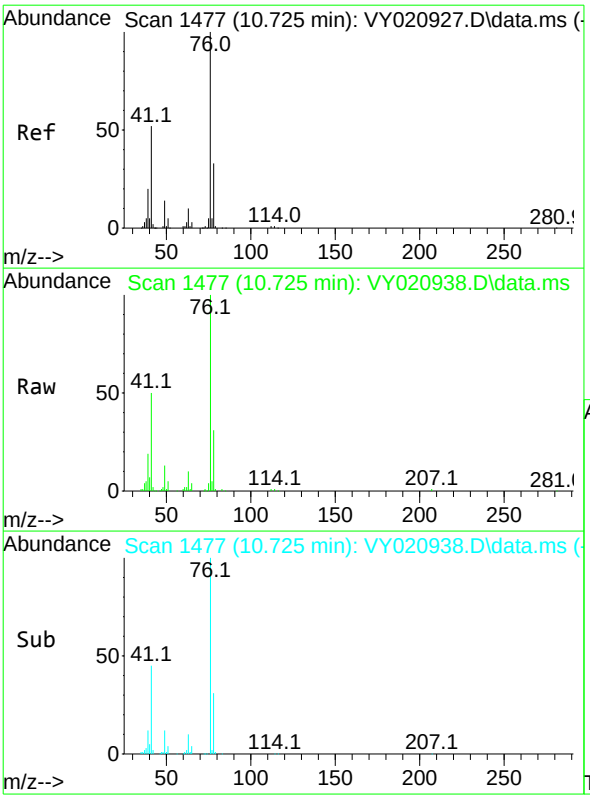




#56
Ethyl methacrylate
Concen: 22.660 ug/l
RT: 10.451 min Scan# 1432
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 69 Resp: 49929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 55.5 | 46.6 | 70.0 |
| 39 | 28.1 | 23.9 | 35.9 |






#57
1,3-Dichloropropane
Concen: 22.070 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

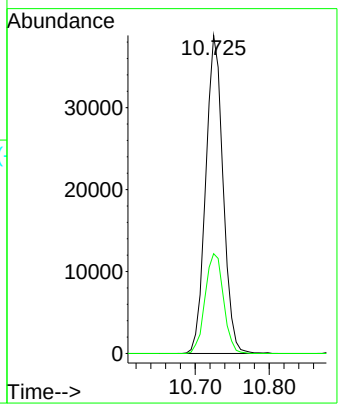
Tgt Ion: 76 Resp: 63035

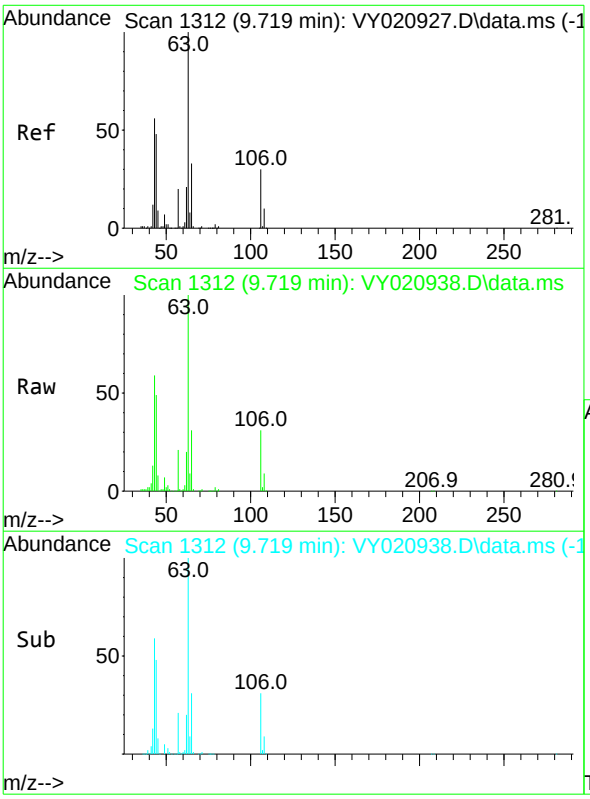
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.3 | 26.2 | 39.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

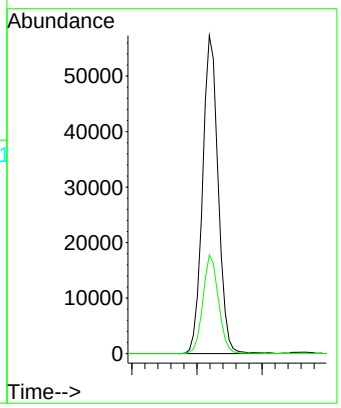


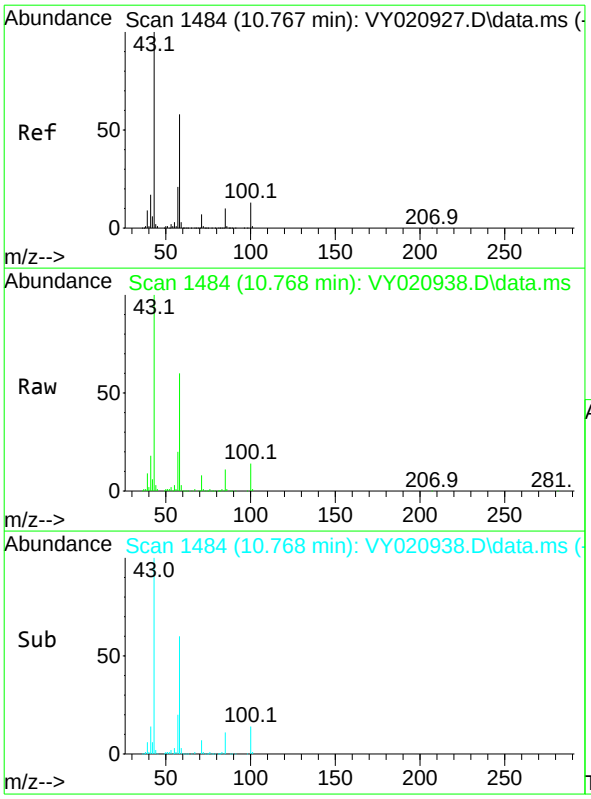




#58
2-Chloroethyl Vinyl ether
Concen: 95.282 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 63 Resp: 95288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 31.0 | 24.7 | 37.1 |






#59
2-Hexanone
Concen: 117.476 ug/l
RT: 10.768 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

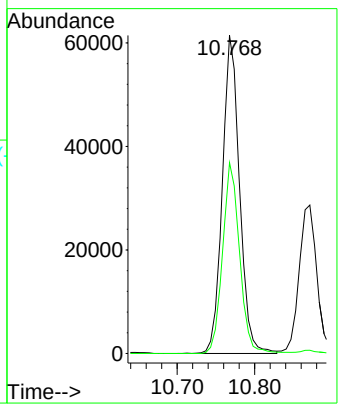
Tgt Ion: 43 Resp: 94676

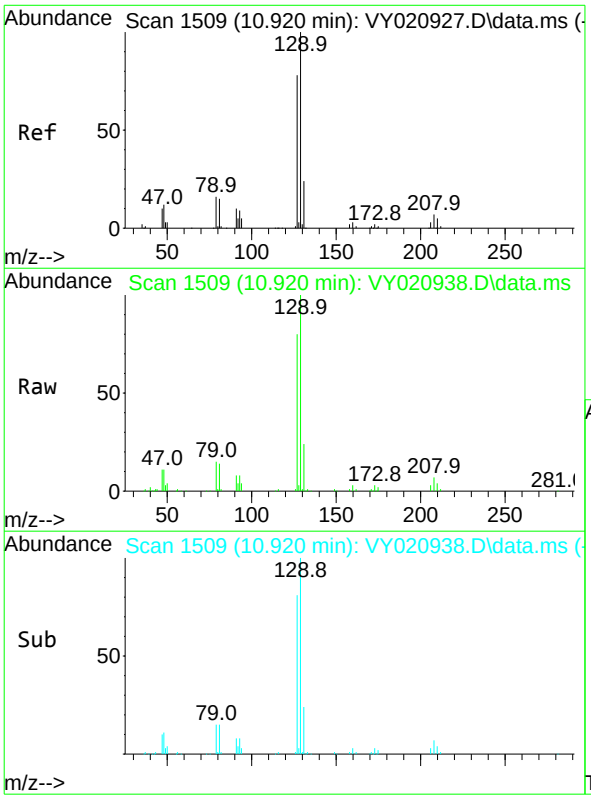
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.4 | 29.9 | 89.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

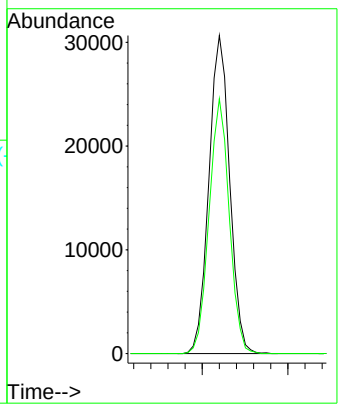


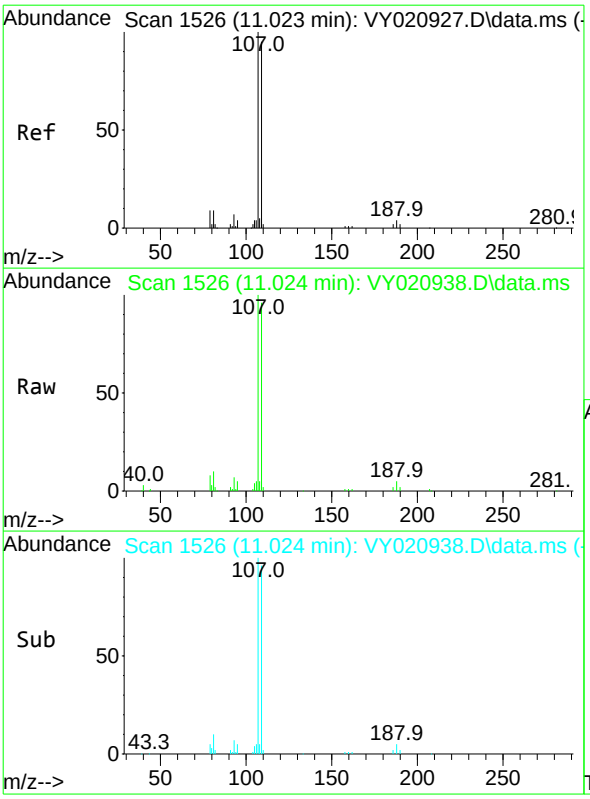




#60
Dibromochloromethane
Concen: 21.861 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:129 Resp: 51729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.6 | 39.2 | 117.6 |






#61
1,2-Dibromoethane
Concen: 22.319 ug/l
RT: 11.024 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

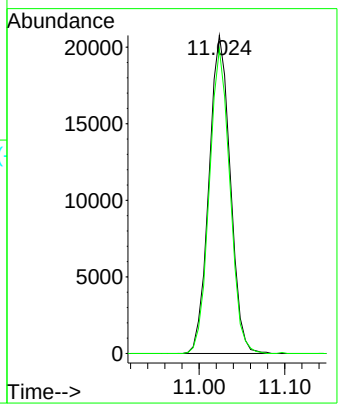
Tgt Ion:107 Resp: 35891

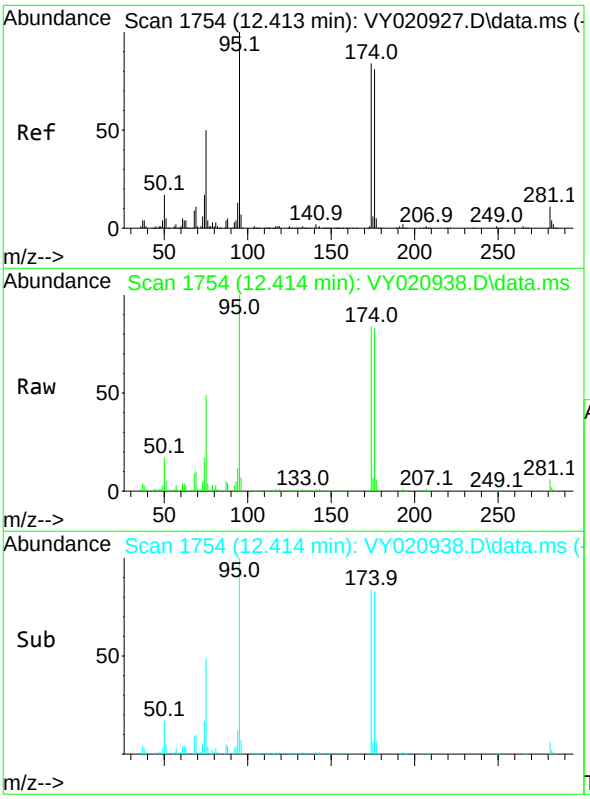
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.3 | 76.3 | 114.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

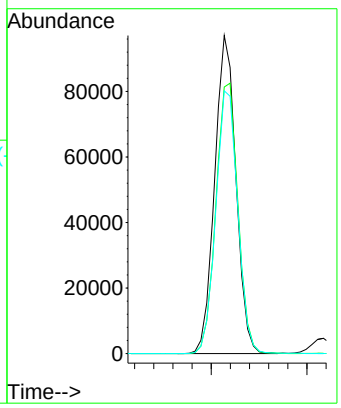


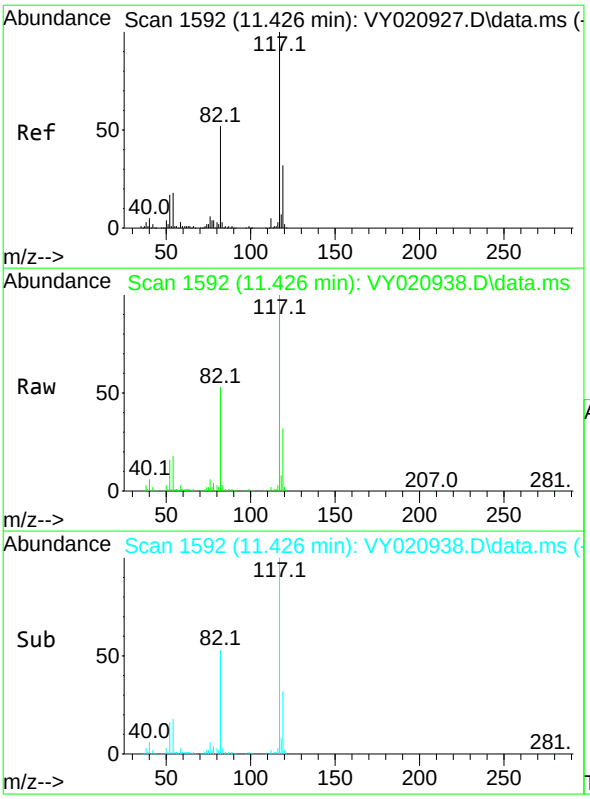




#62
4-Bromofluorobenzene
Concen: 47.919 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 95 Resp: 149686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 87.8 | 0.0 | 177.4 |
| 176 | 85.3 | 0.0 | 172.2 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

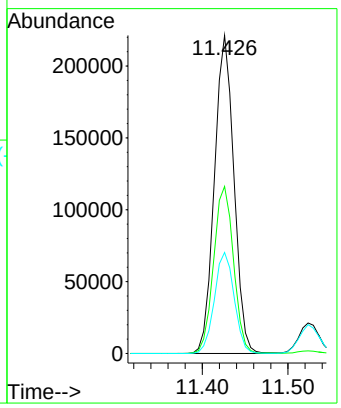
Tgt Ion:117 Resp: 350671

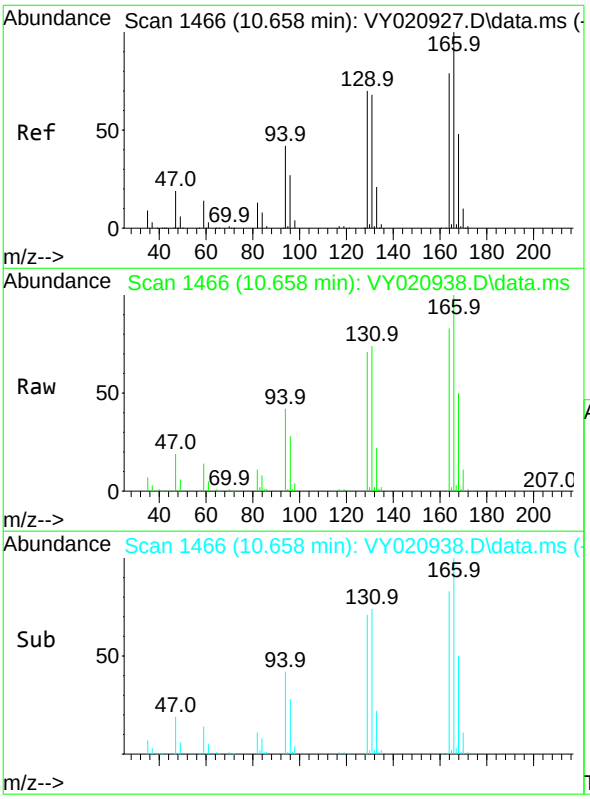
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.5 | 41.8 | 62.8 |
| 119 | 31.8 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

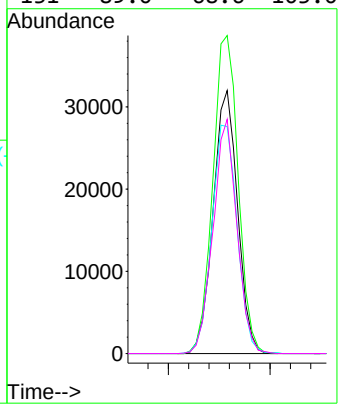


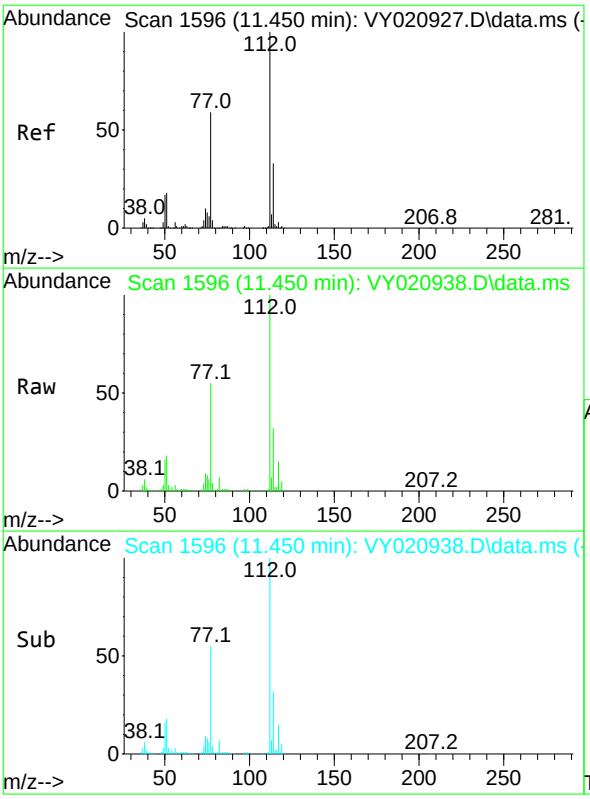




#64
Tetrachloroethene
Concen: 21.848 ug/l
RT: 10.658 min Scan# 1466
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:164 Resp: 53316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 120.9 | 101.0 | 151.6 |
| 129 | 86.3 | 70.8 | 106.2 |
| 131 | 89.0 | 68.6 | 103.0 |






#65
Chlorobenzene
Concen: 21.477 ug/l
RT: 11.450 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

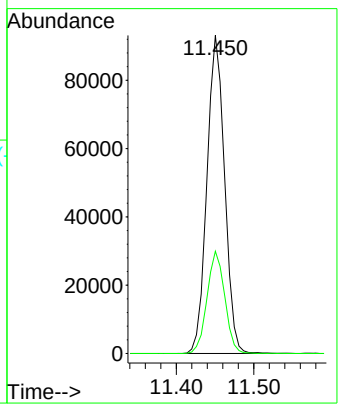
Tgt Ion:112 Resp: 147278

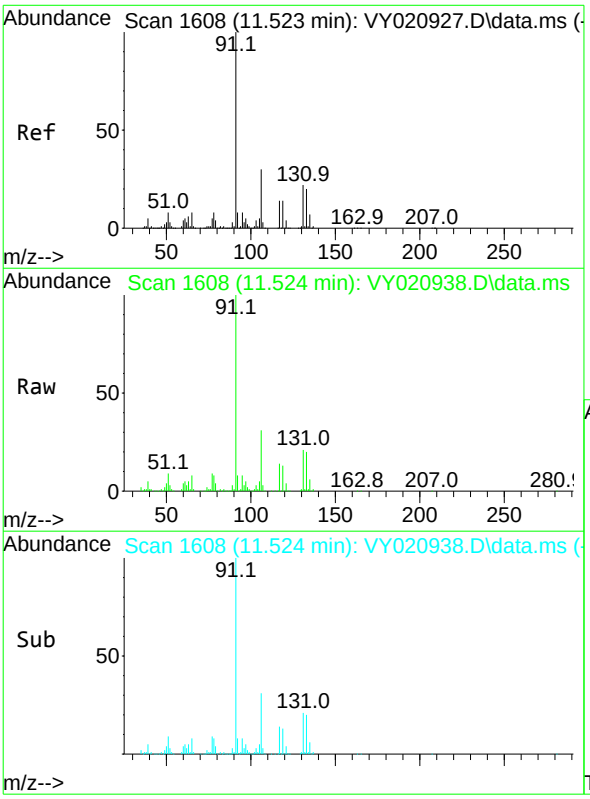
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

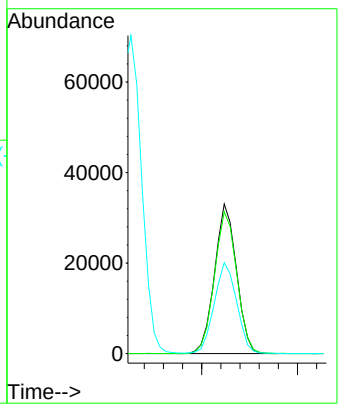


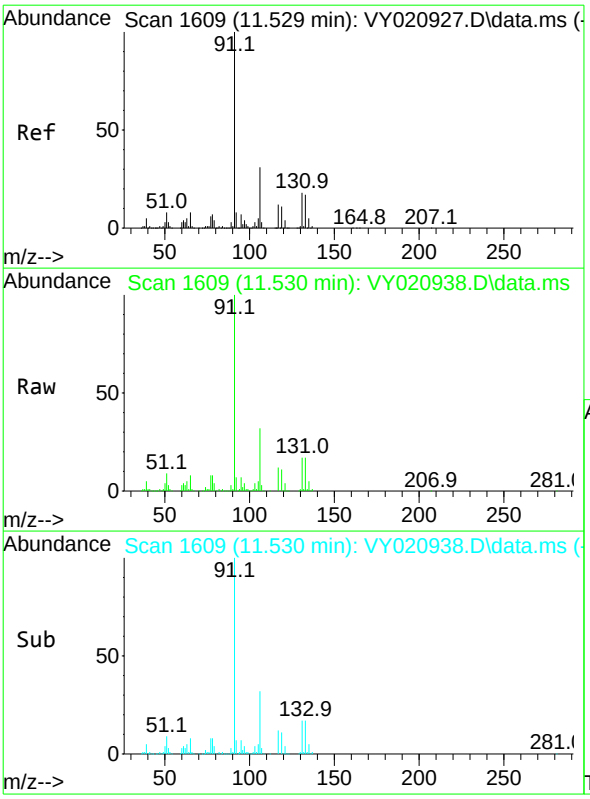




#66
1,1,1,2-Tetrachloroethane
Concen: 21.560 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:131 Resp: 52538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.9 | 47.5 | 142.6 |
| 119 | 62.6 | 31.2 | 93.6 |






#67
Ethyl Benzene
Concen: 21.393 ug/l
RT: 11.530 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

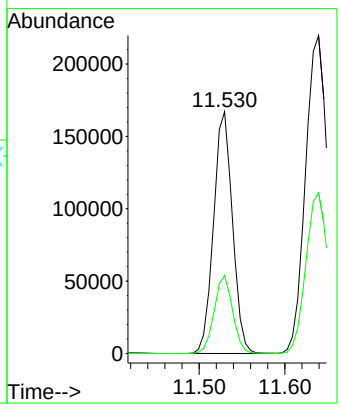
Tgt Ion: 91 Resp: 255989

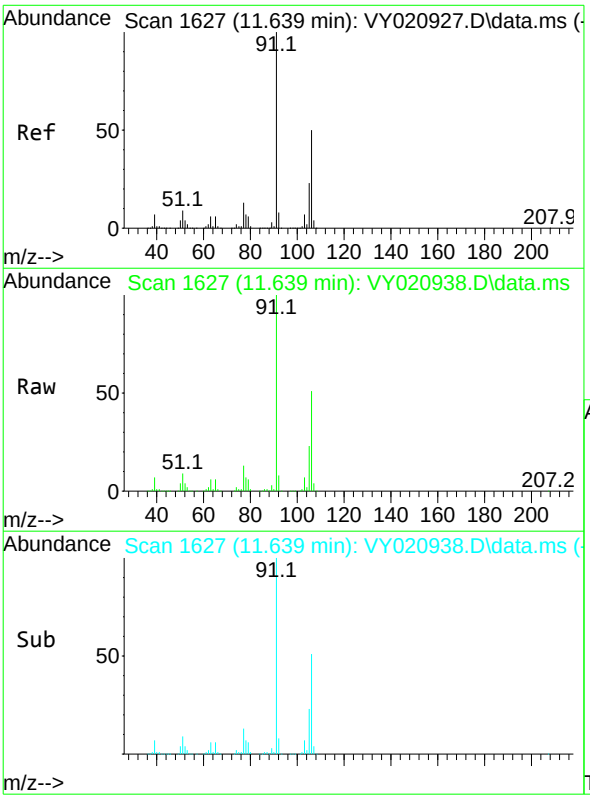
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.2 | 25.2 | 37.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

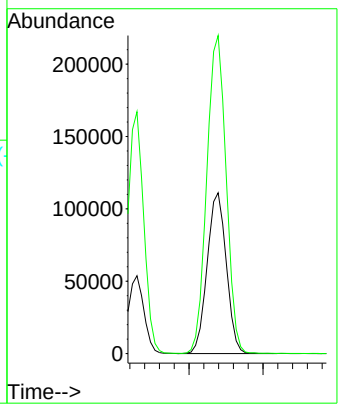


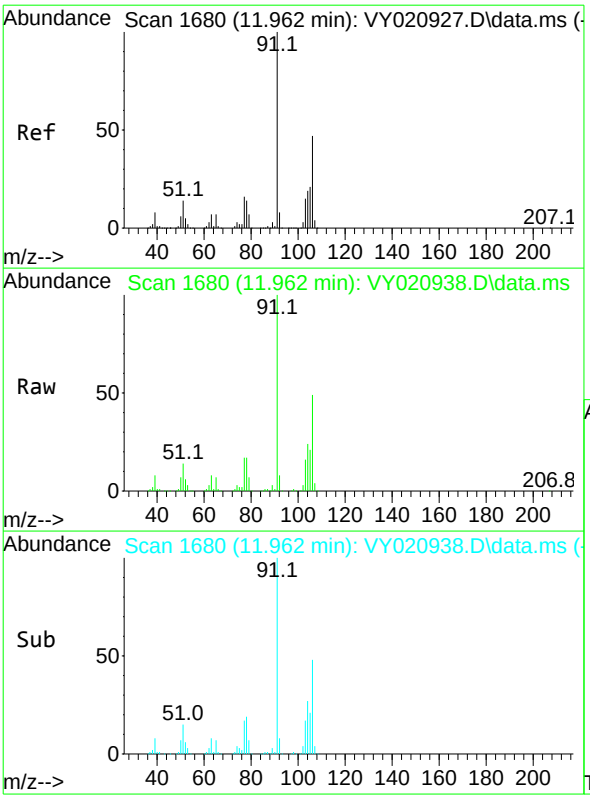




#68
m/p-Xylenes
Concen: 43.562 ug/l
RT: 11.639 min Scan# 1627
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:106 Resp: 199594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 199.6 | 159.5 | 239.3 |






#69
o-Xylene
Concen: 21.692 ug/l
RT: 11.962 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

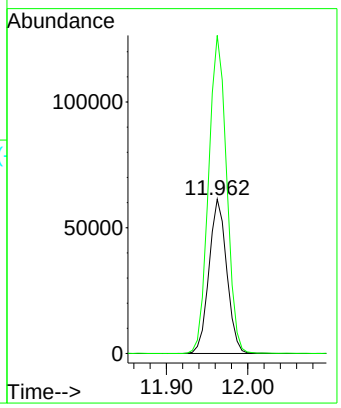
Tgt Ion:106 Resp: 92840

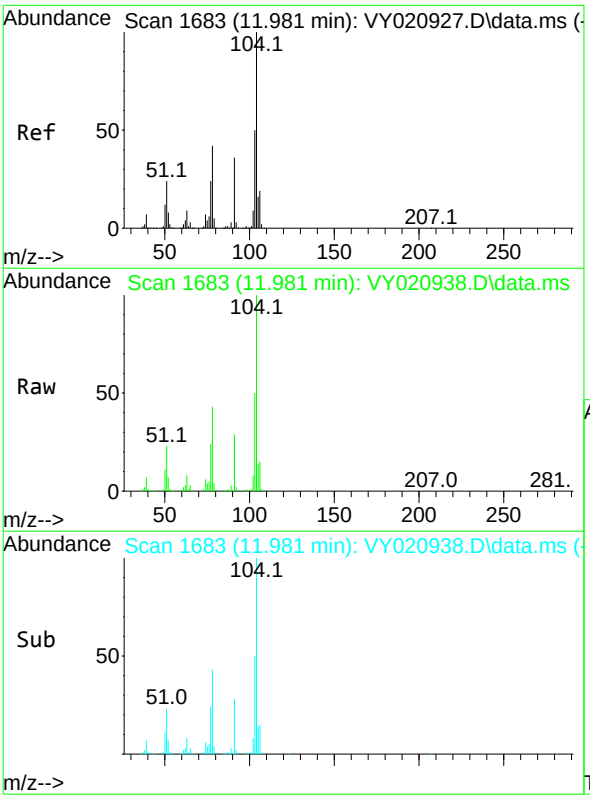
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.7 | 105.3 | 315.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

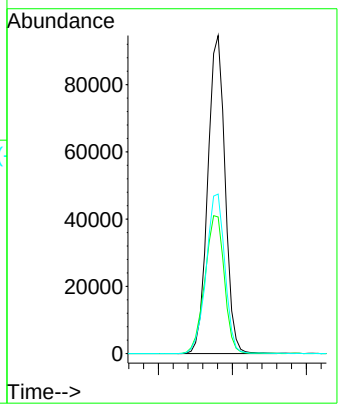


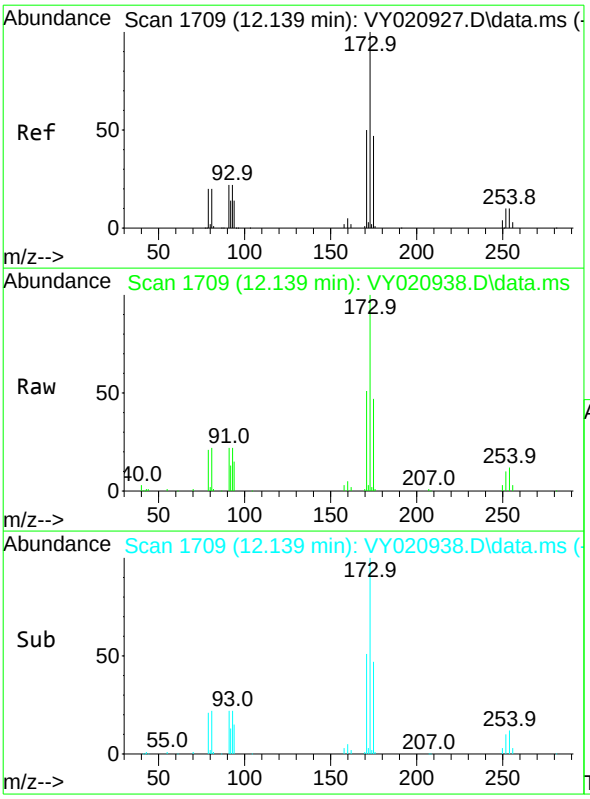




#70
Styrene
Concen: 21.905 ug/l
RT: 11.981 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:104 Resp: 153642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.9 | 38.5 | 57.7 |
| 103 | 54.4 | 43.4 | 65.2 |






#71
Bromoform
Concen: 22.534 ug/l
RT: 12.139 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

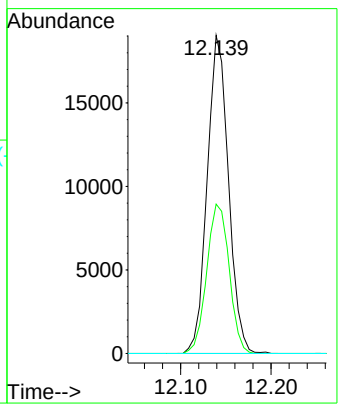
Tgt Ion:173 Resp: 31094

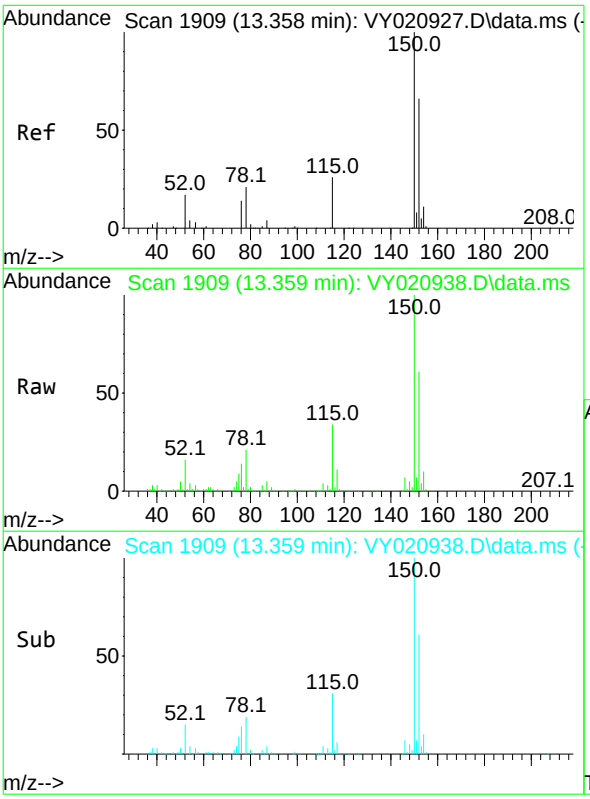
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.6 | 24.3 | 73.0 |
| 254 | 0.0 | 0.1 | 0.1# |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

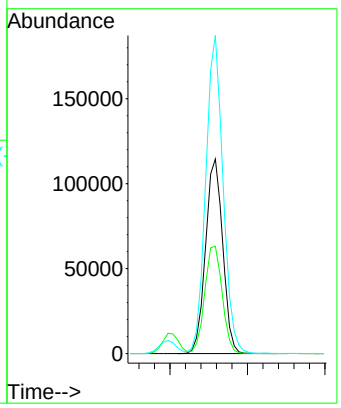


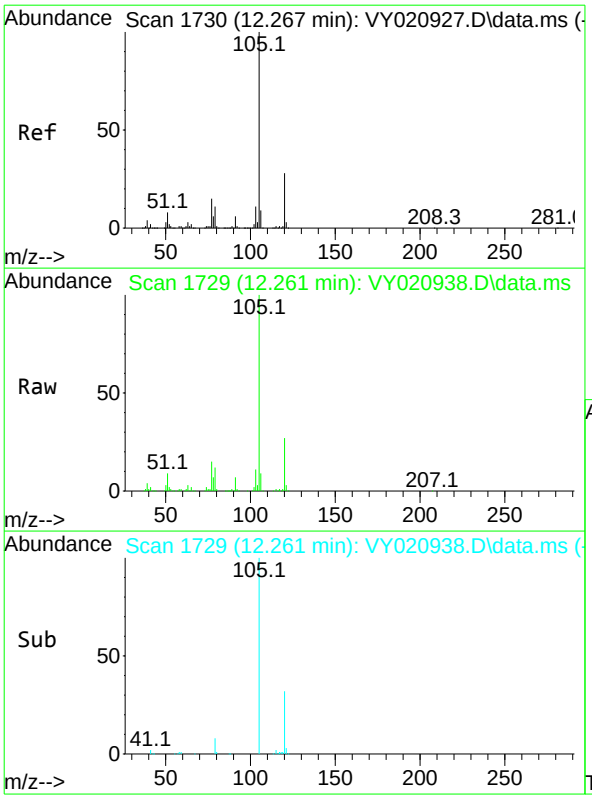




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:152 Resp: 176333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.5 | 29.0 | 87.0 |
| 150 | 164.7 | 0.0 | 347.6 |






#73
Isopropylbenzene
Concen: 20.498 ug/l
RT: 12.261 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

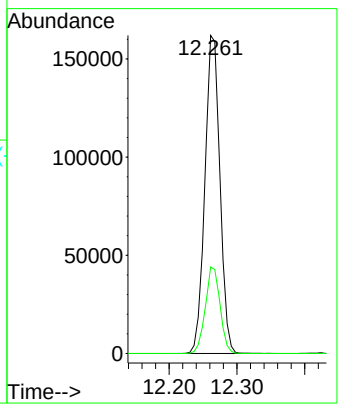
Tgt Ion:105 Resp: 248935

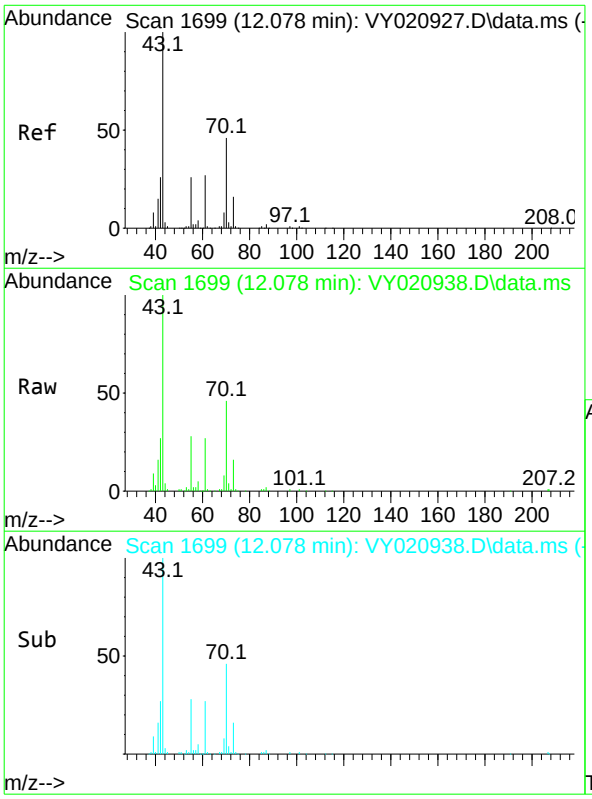
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.7 | 13.4 | 40.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

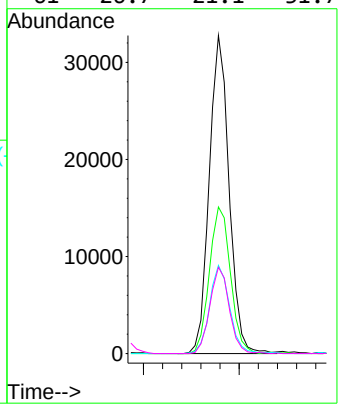


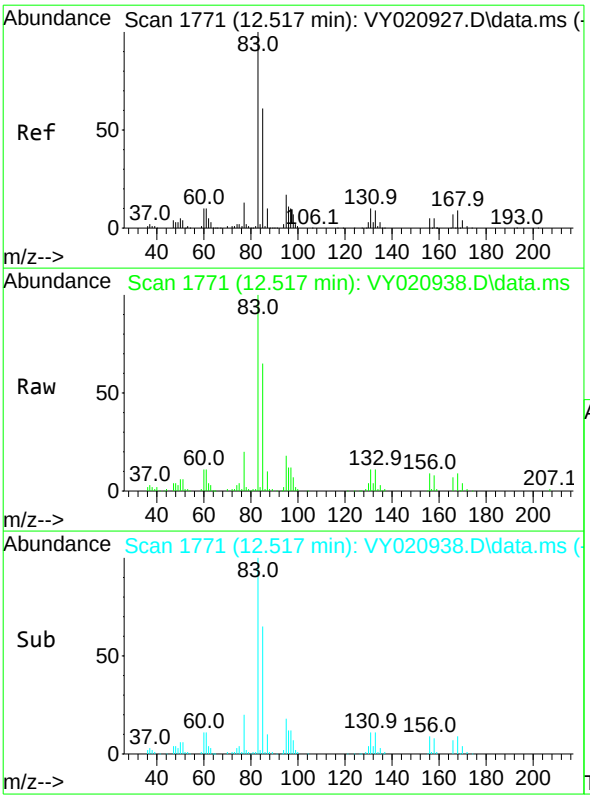




#74
N-amyl acetate
Concen: 21.809 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 43 Resp: 47129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 49.0 | 38.7 | 58.1 |
| 55 | 28.3 | 21.6 | 32.4 |
| 61 | 26.7 | 21.1 | 31.7 |






#75
1,1,2,2-Tetrachloroethane
Concen: 22.193 ug/l
RT: 12.517 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 83 Resp: 41935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.7 | 5.5 | 16.7 |
| 85 | 63.5 | 31.8 | 95.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
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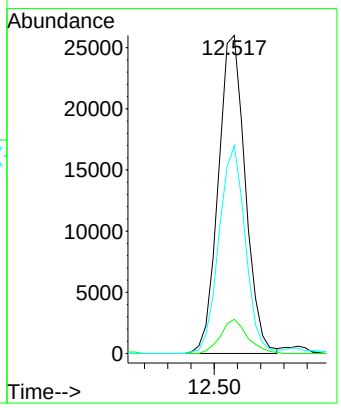
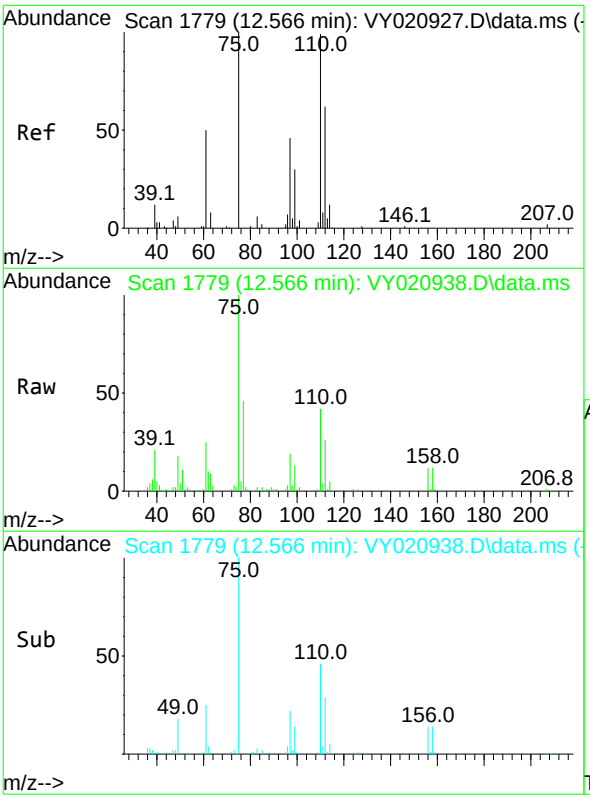
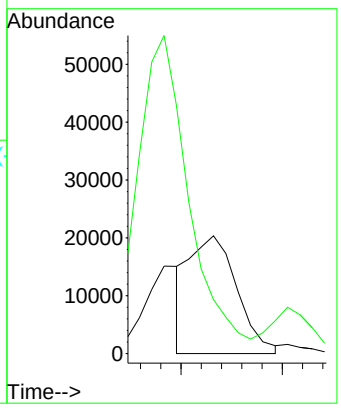


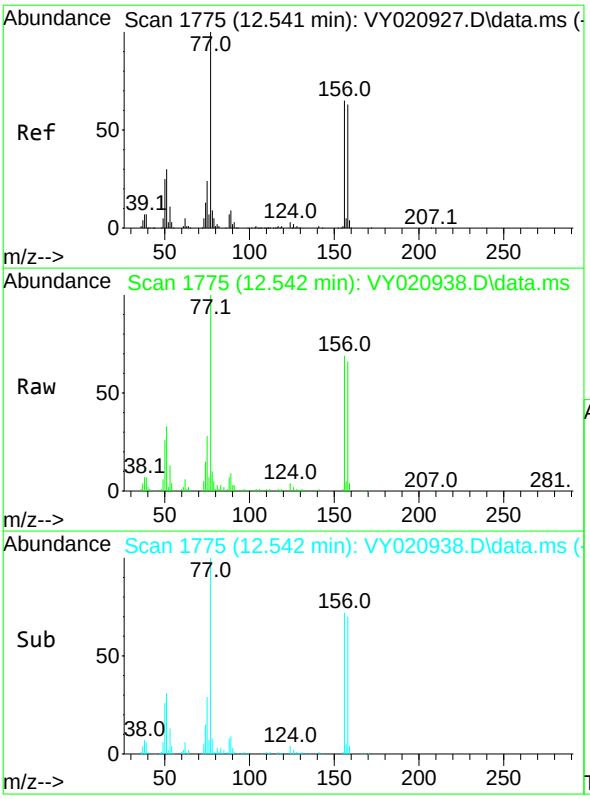




#76
1,2,3-Trichloropropane
Concen: 26.785 ug/l m
RT: 12.566 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 75 Resp: 33394

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






#77
Bromobenzene
Concen: 20.815 ug/l
RT: 12.542 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

Tgt Ion:156 Resp: 59254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 165.2 | 84.4 | 253.1 |
| 158 | 96.7 | 48.9 | 146.6 |

**Manual Integrations**
**APPROVED**

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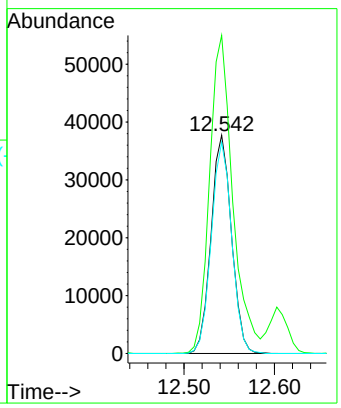
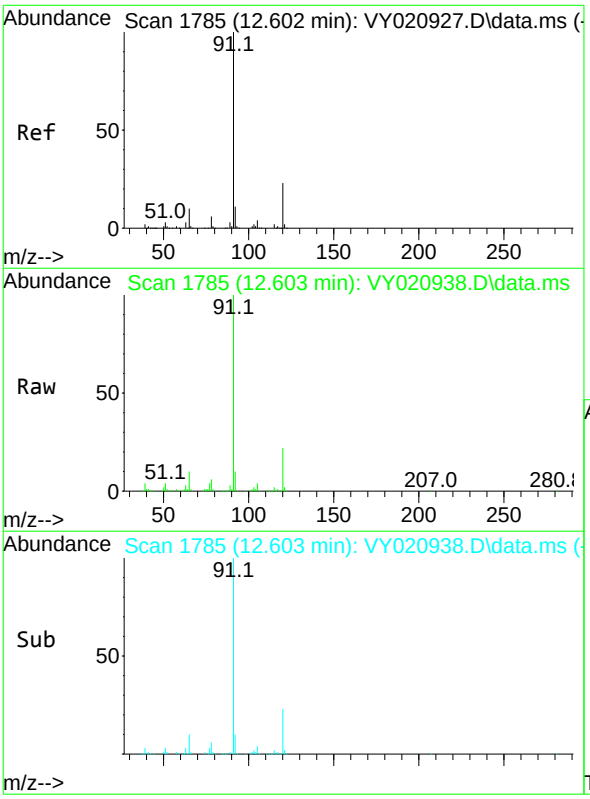
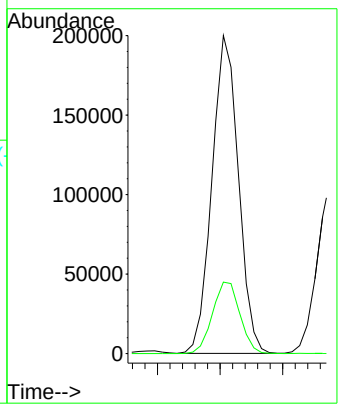


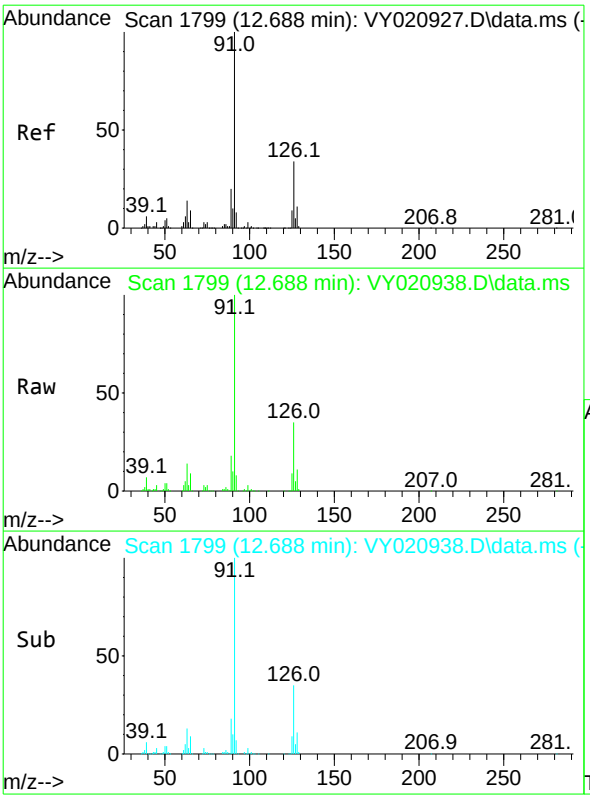




#78
n-propylbenzene
Concen: 20.762 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 91 Resp: 293711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.3 | 11.8 | 35.4 |






#79
2-Chlorotoluene
Concen: 20.764 ug/l
RT: 12.688 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 91 Resp: 166593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.2 | 17.6 | 52.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

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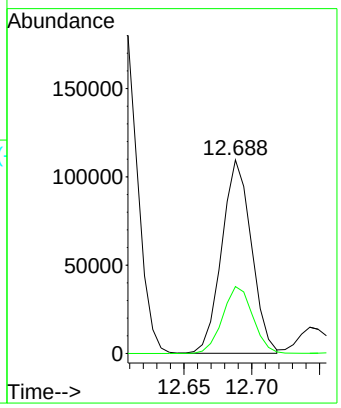
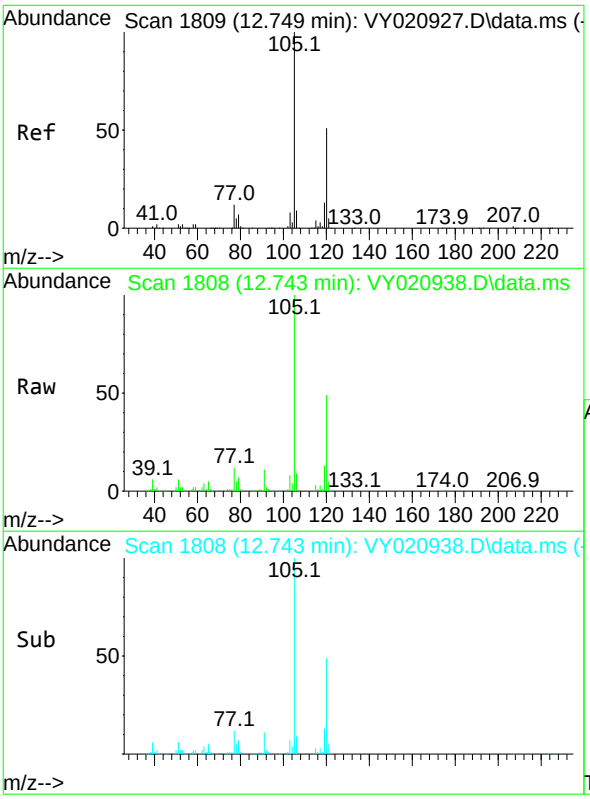
Supervised By :Semsettin Yesilyurt 01/28/2025

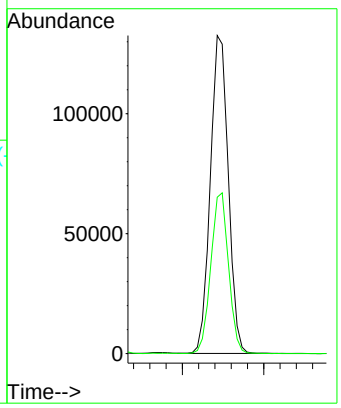


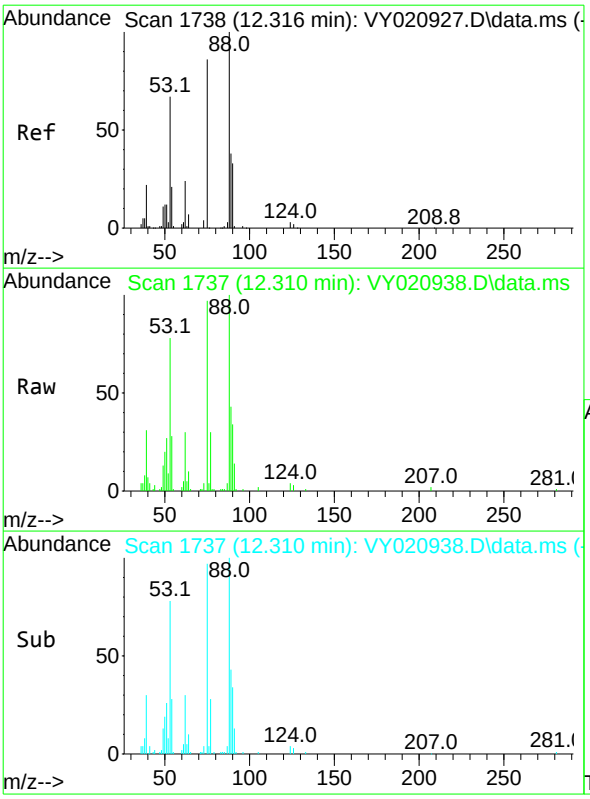




#80
1,3,5-Trimethylbenzene
Concen: 20.777 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:105 Resp: 202745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.9 | 24.9 | 74.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 22.688 ug/l
RT: 12.310 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

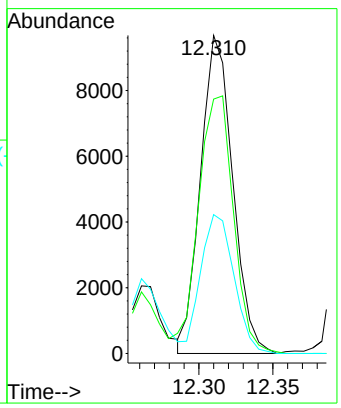
Tgt Ion: 75 Resp: 14641

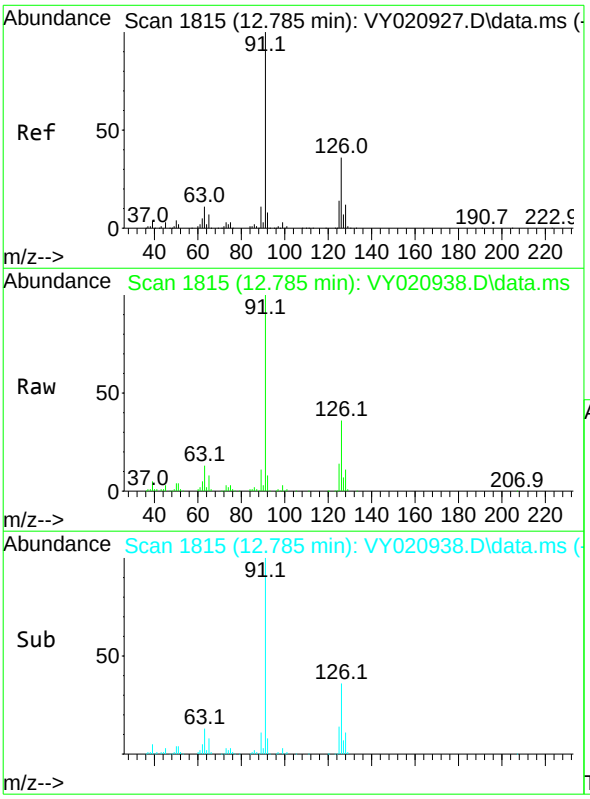
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 88.5 | 67.7 | 101.5 |
| 89 | 45.5 | 38.4 | 57.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

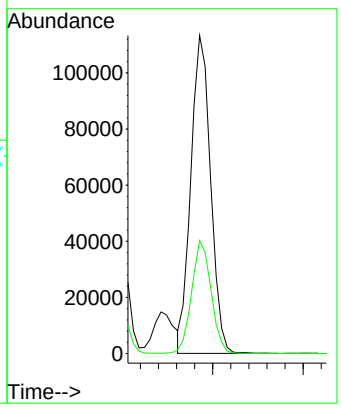


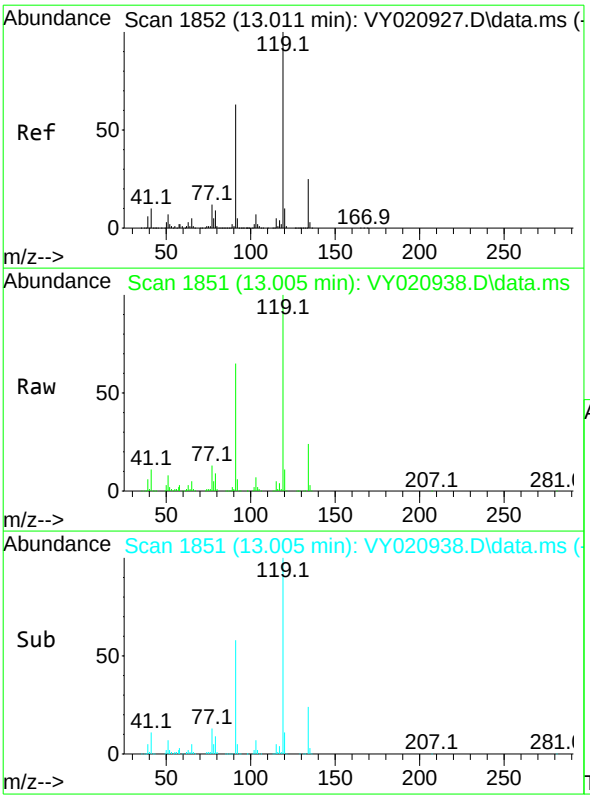




#82
4-Chlorotoluene
Concen: 20.923 ug/l
RT: 12.785 min Scan# 1815
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 91 Resp: 171424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.1 | 17.4 | 52.3 |






#83
tert-Butylbenzene
Concen: 20.371 ug/l
RT: 13.005 min Scan# 18
Delta R.T. -0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

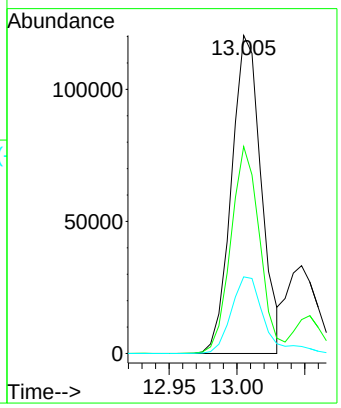
Tgt Ion:119 Resp: 183352

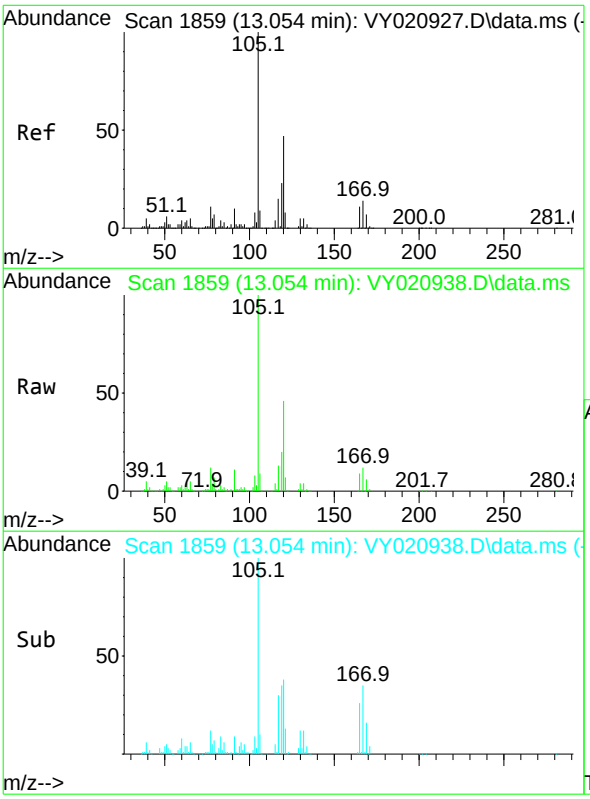
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.4 | 30.9 | 92.8 |
| 134 | 27.0 | 13.1 | 39.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

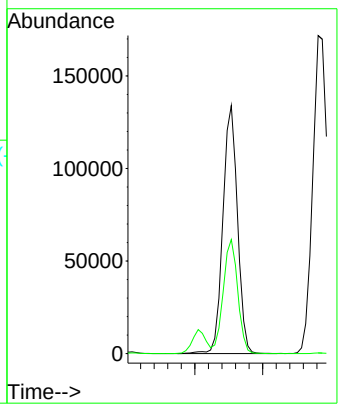


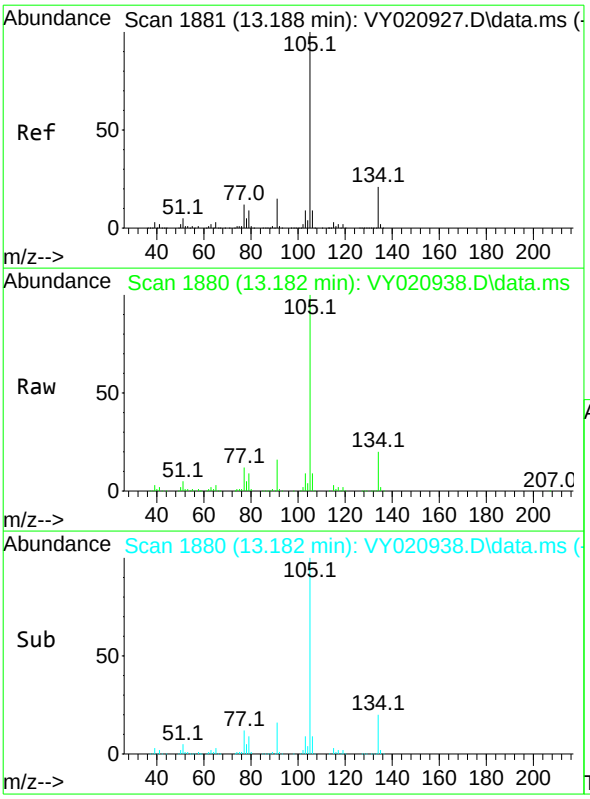




#84
1,2,4-Trimethylbenzene
Concen: 20.851 ug/l
RT: 13.054 min Scan# 1859
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:105 Resp: 200305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.8 | 22.9 | 68.7 |






#85
sec-Butylbenzene
Concen: 20.685 ug/l
RT: 13.182 min Scan# 18
Delta R.T. -0.006 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

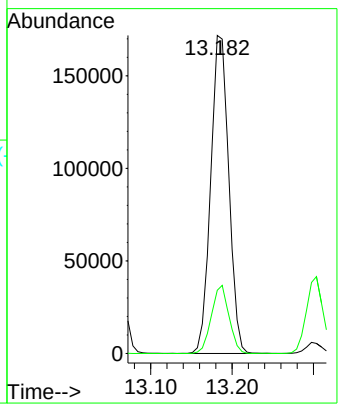
Tgt Ion:105 Resp: 265445

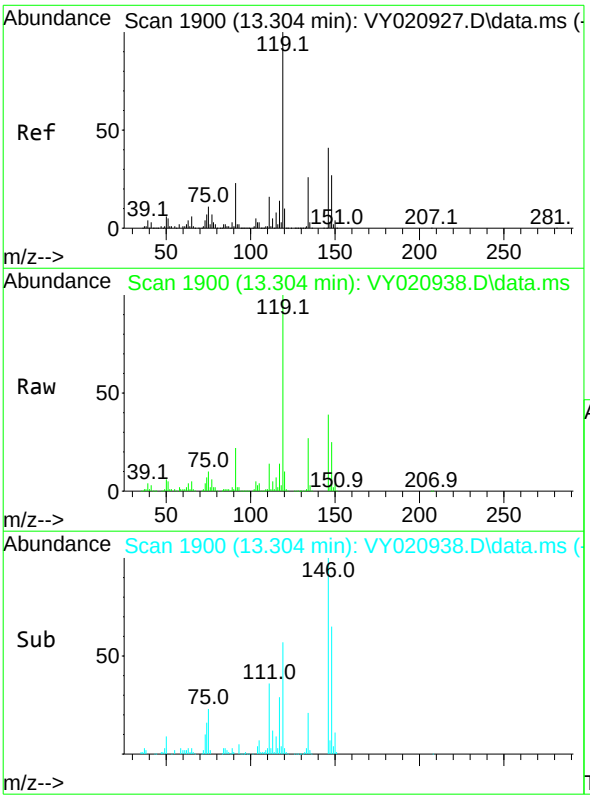
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.8 | 10.4 | 31.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

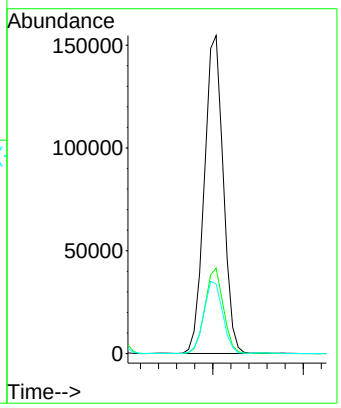


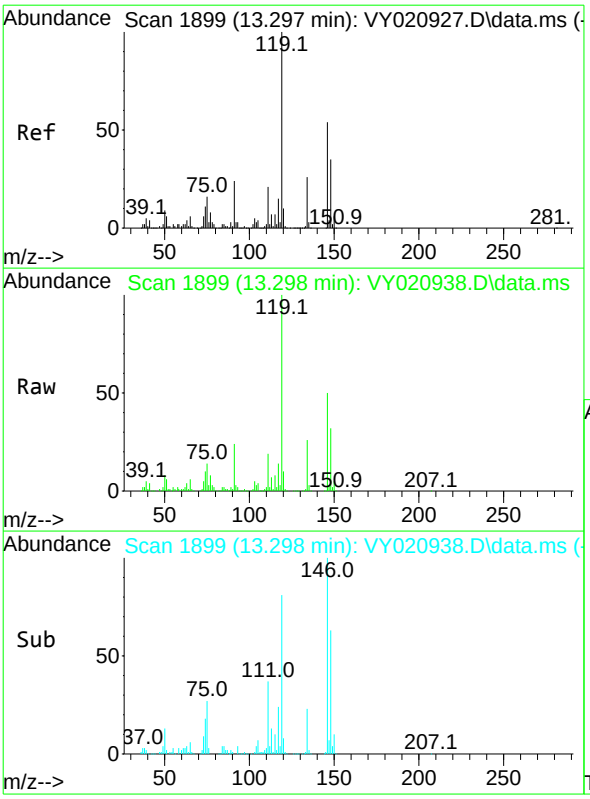




#86
p-Isopropyltoluene
Concen: 20.706 ug/l
RT: 13.304 min Scan# 1900
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:119 Resp: 224491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 13.3 | 39.8 |
| 91 | 22.6 | 11.6 | 34.7 |






#87
1,3-Dichlorobenzene
Concen: 20.935 ug/l
RT: 13.298 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

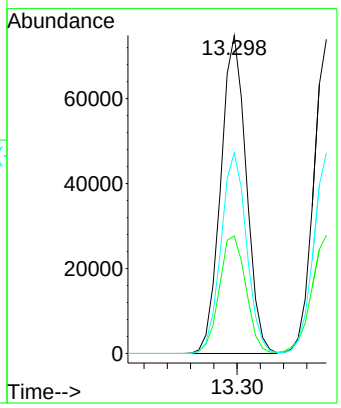
Tgt Ion:146 Resp: 114125

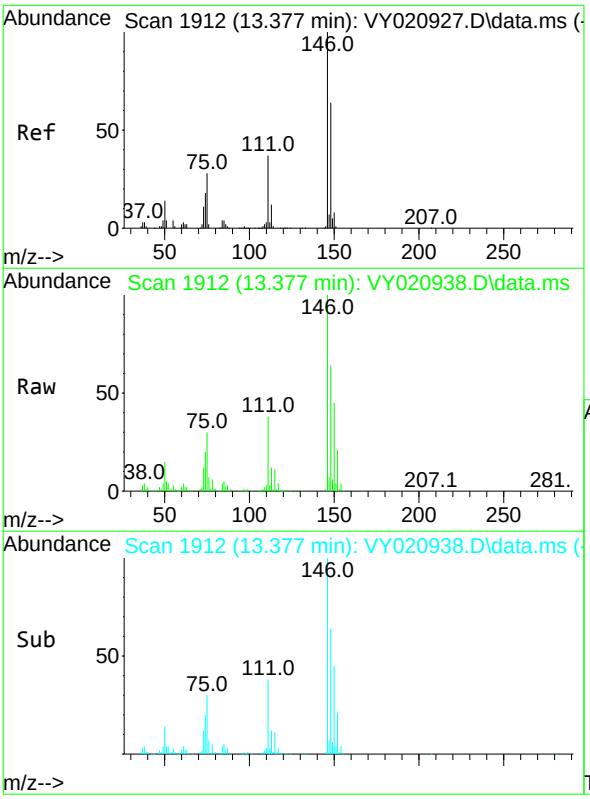
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.6 | 19.4 | 58.2 |
| 148 | 63.2 | 31.9 | 95.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

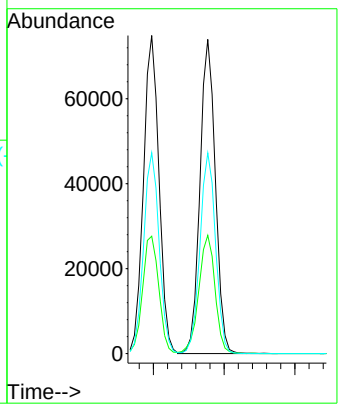


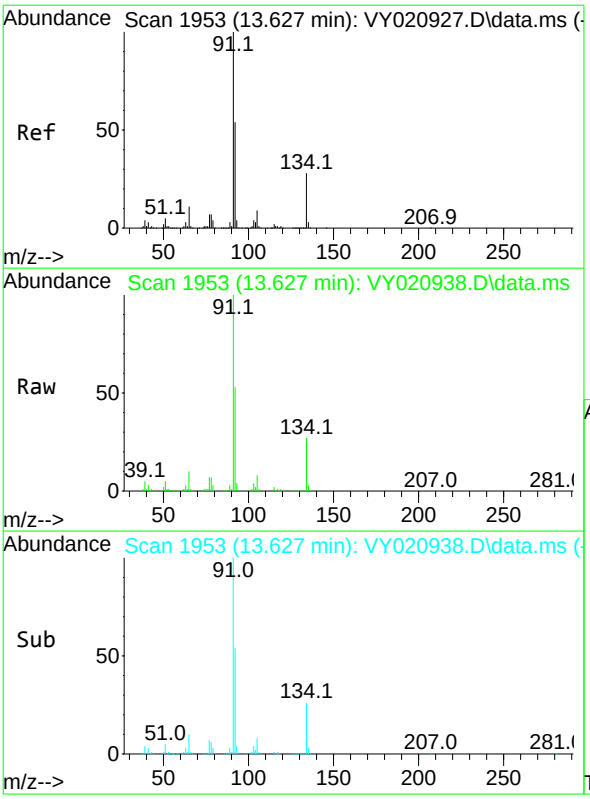




#88
1,4-Dichlorobenzene
Concen: 20.929 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:146 Resp: 112075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.7 | 18.8 | 56.4 |
| 148 | 64.7 | 32.0 | 96.0 |






#89
n-Butylbenzene
Concen: 20.420 ug/l
RT: 13.627 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

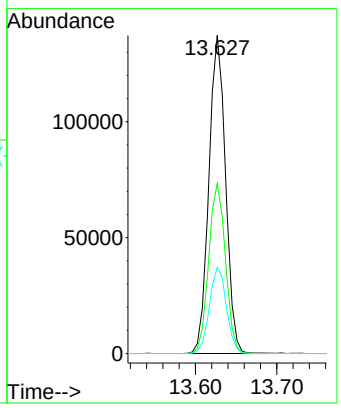
Tgt Ion: 91 Resp: 195281

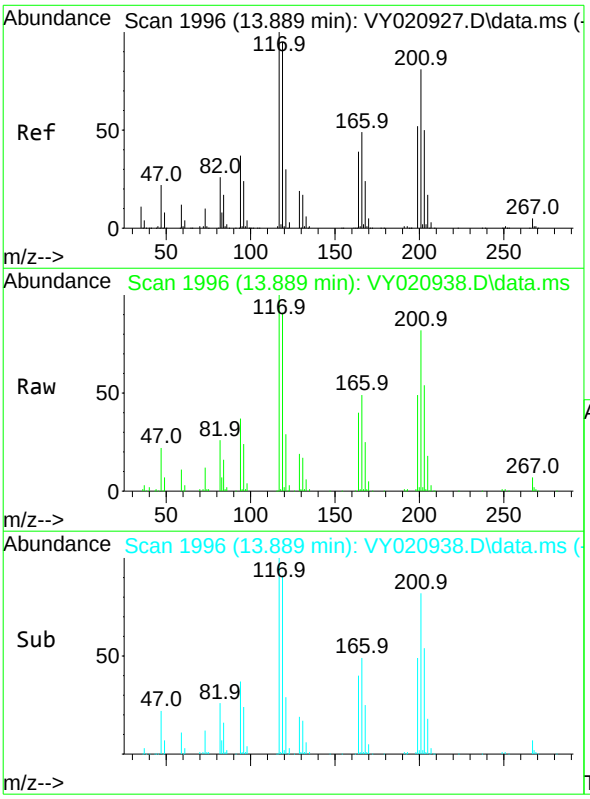
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.8 | 26.8 | 80.3 |
| 134 | 27.5 | 13.8 | 41.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

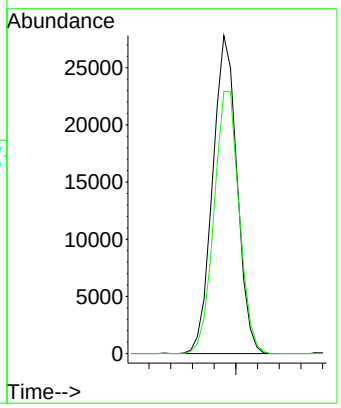


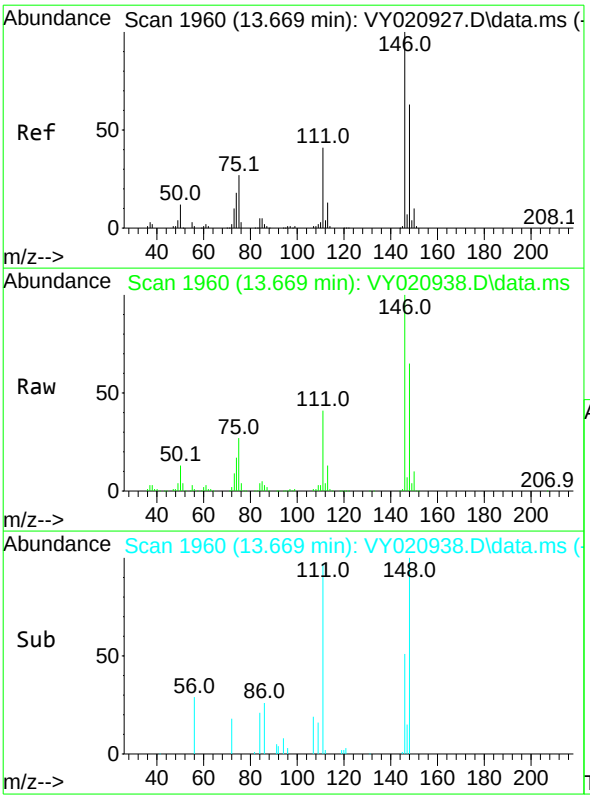




#90
Hexachloroethane
Concen: 20.116 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:117 Resp: 43323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 85.3 | 42.7 | 128.1 |






#91
1,2-Dichlorobenzene
Concen: 20.940 ug/l
RT: 13.669 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

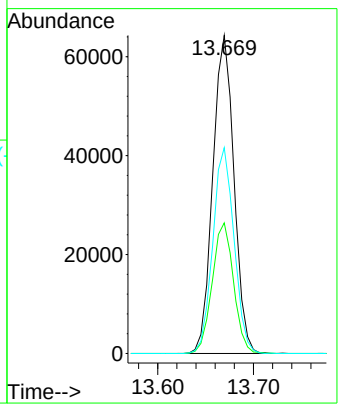
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

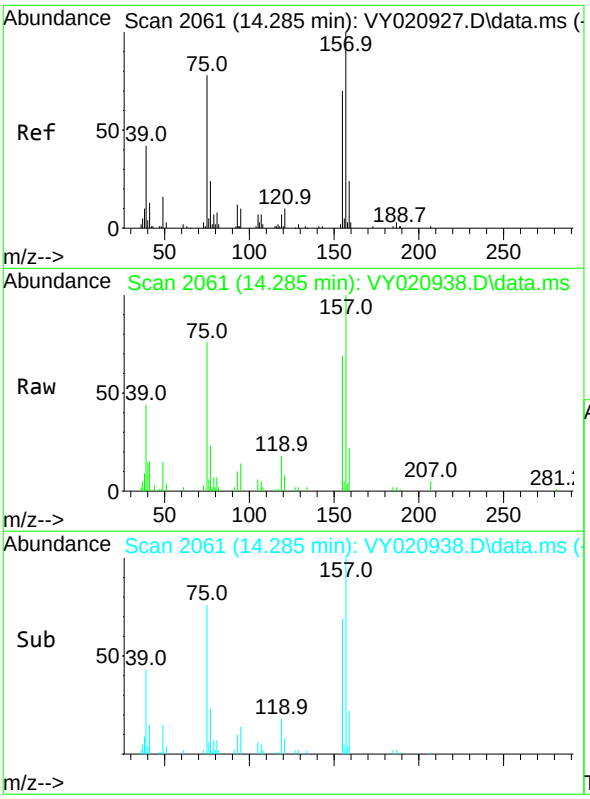
Tgt Ion:146 Resp: 98897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.4 | 20.2 | 60.6 |
| 148 | 64.9 | 32.2 | 96.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

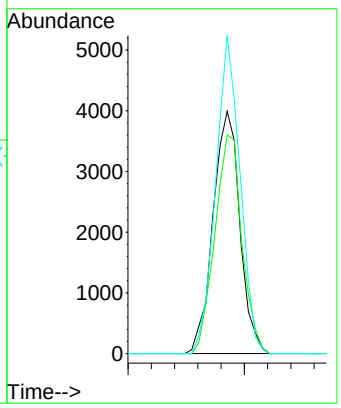


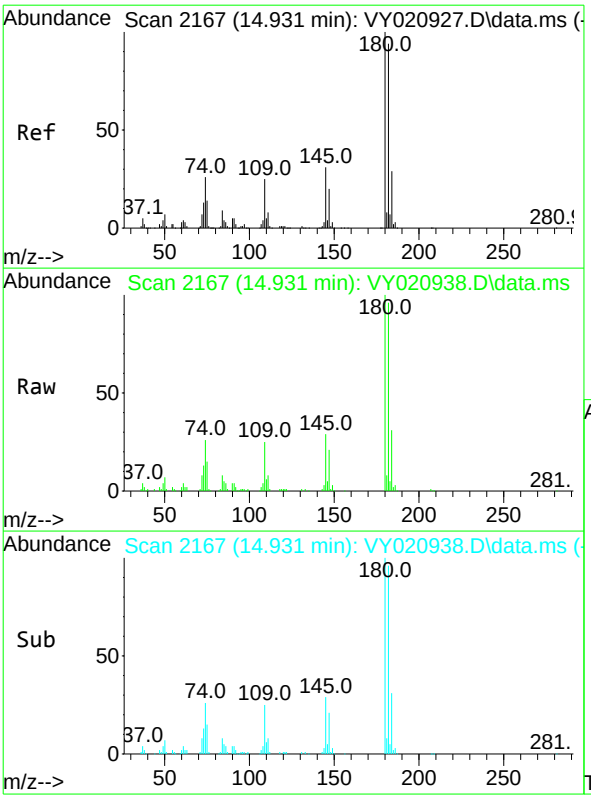




#92
1,2-Dibromo-3-Chloropropane
Concen: 22.494 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion: 75 Resp: 6385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 91.1 | 46.6 | 139.7 |
| 157 | 119.7 | 60.1 | 180.3 |






#93
1,2,4-Trichlorobenzene
Concen: 20.453 ug/l
RT: 14.931 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

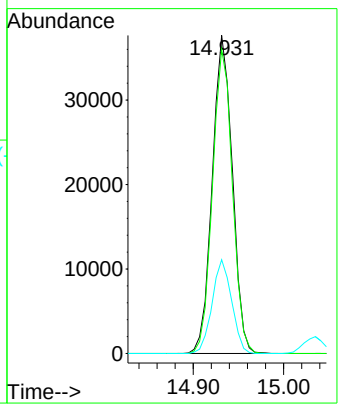
Tgt Ion:180 Resp: 58110

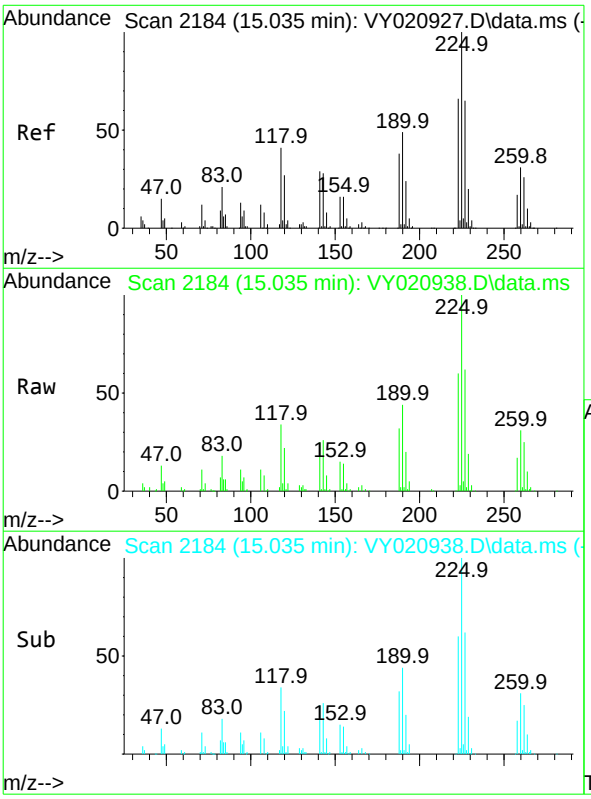
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 47.0 | 141.2 |
| 145 | 28.7 | 14.9 | 44.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

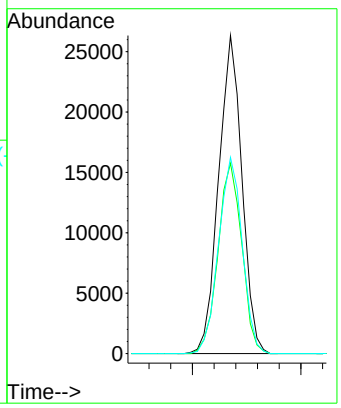


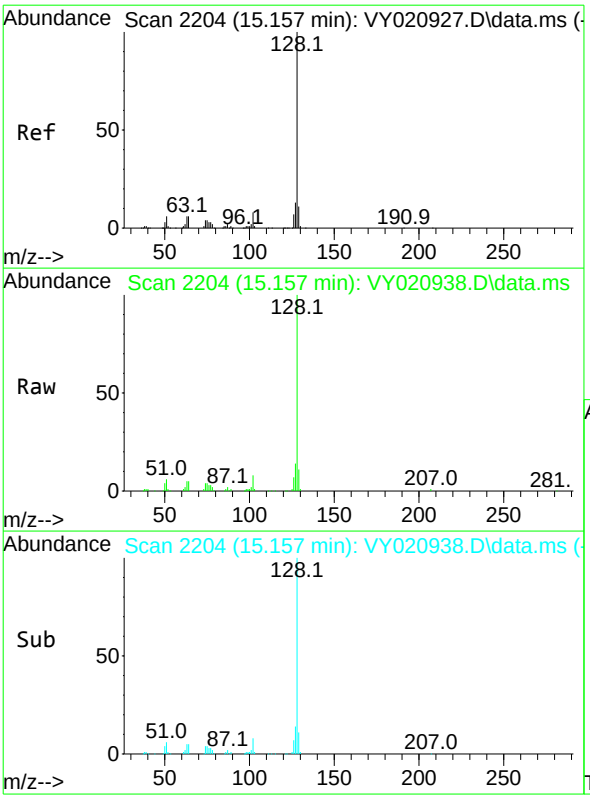




#94
Hexachlorobutadiene
Concen: 20.186 ug/l
RT: 15.035 min Scan# 2184
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:225 Resp: 39240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.0 | 31.5 | 94.5 |
| 227 | 62.9 | 31.9 | 95.9 |






#95
Naphthalene
Concen: 21.064 ug/l
RT: 15.157 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

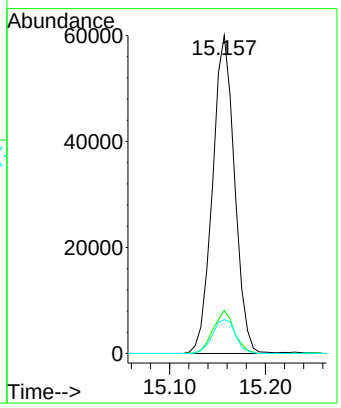
Tgt Ion:128 Resp: 95967

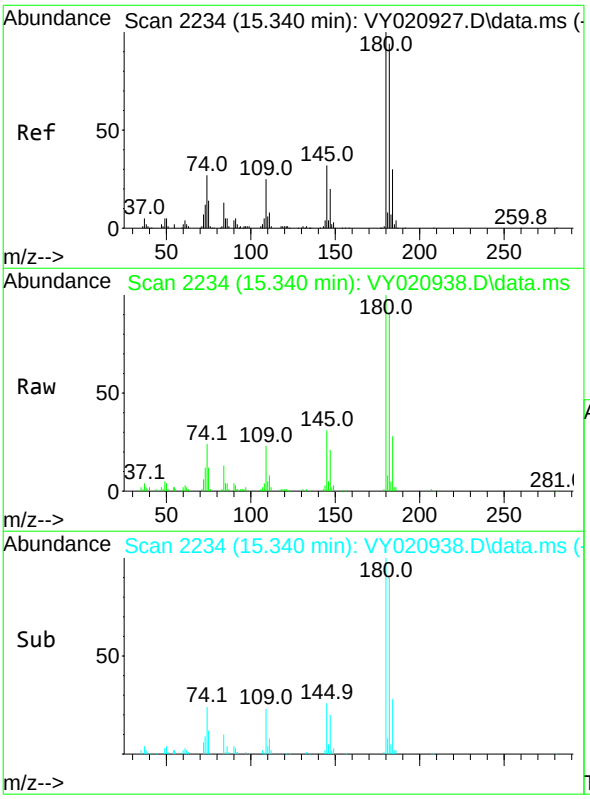
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.1 | 10.3 | 15.5 |
| 129 | 11.1 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

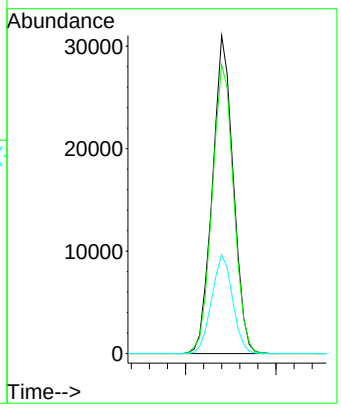



#96
1,2,3-Trichlorobenzene
Concen: 20.828 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020938.D
Acq: 27 Jan 2025 10:30

Tgt Ion:180 Resp: 49716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.8 | 47.5 | 142.6 |
| 145 | 31.2 | 15.7 | 47.0 |



Raw Data: **VN085520.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0127WBSD01 | SDG No.: | Q1194 |
| Lab Sample ID: | VN0127WBSD01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085520.D | 1 | | 01/27/25 16:46 | VN012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 16.0 | | 0.21 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 15.6 | | 0.35 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 15.5 | | 0.34 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 16.2 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 16.3 | | 0.56 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 16.9 | | 0.34 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 17.6 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 17.4 | | 0.26 | 1.00 | ug/L |
| 67-64-1 | Acetone | 96.0 | | 1.40 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 14.3 | | 0.32 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 19.4 | | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 20.5 | | 0.60 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 17.3 | | 0.32 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 17.1 | | 0.25 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 17.7 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 16.1 | | 1.60 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 98.1 | | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 17.8 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 17.7 | | 0.25 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 17.5 | | 0.18 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 17.9 | | 0.26 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 17.9 | | 0.19 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 16.8 | | 0.19 | 1.00 | ug/L |
| 71-43-2 | Benzene | 18.2 | | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 18.8 | | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 17.9 | | 0.32 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 18.1 | | 0.19 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 19.2 | | 0.24 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 100 | | 0.75 | 5.00 | ug/L |
| 108-88-3 | Toluene | 18.9 | | 0.18 | 1.00 | ug/L |

Raw Data: **VN085520.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0127WBSD01 | SDG No.: | Q1194 |
| Lab Sample ID: | VN0127WBSD01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085520.D | 1 | | 01/27/25 16:46 | VN012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 19.5 | | 0.21 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 18.9 | | 0.18 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 19.4 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 100 | | 1.10 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 19.1 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 19.1 | | 0.16 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 18.6 | | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 18.4 | | 0.13 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 18.6 | | 0.16 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 38.7 | | 0.31 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 19.0 | | 0.14 | 1.00 | ug/L |
| 100-42-5 | Styrene | 19.5 | | 0.16 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 20.2 | | 0.21 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 19.0 | | 0.13 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 19.2 | | 0.27 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 18.9 | | 0.24 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 18.0 | | 0.27 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 18.7 | | 0.19 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 20.7 | | 0.46 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 18.0 | | 0.42 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 18.1 | | 0.51 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 47.6 | | 70 (74) - 130 (125) | 95% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.0 | | 70 (75) - 130 (124) | 96% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.8 | | 70 (86) - 130 (113) | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.0 | | 70 (77) - 130 (121) | 100% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 201000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 340000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 298000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 142000 | 13.788 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0127WBSD01 | SDG No.: | Q1194 |
| Lab Sample ID: | VN0127WBSD01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN085520.D | 1 | | 01/27/25 16:46 | VN012725 |

| 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

Quantitation Report (QT Reviewed)

Sample Results: **VN085520.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085520.D
Acq On : 27 Jan 2025 16:46
Operator : JC\MD
Sample : VN0127WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 28 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 201491 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 340191 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 297834 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 142141 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 154960 | 47.644 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 95.280% | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 113203 | 47.966 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 95.940% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 401058 | 47.828 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 95.660% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 143504 | 50.029 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 100.060% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 43592 | 15.979 | ug/l | 96 |
| 3) Chloromethane | 2.359 | 50 | 45973 | 15.564 | ug/l | 99 |
| 4) Vinyl Chloride | 2.512 | 62 | 46002 | 15.494 | ug/l | 96 |
| 5) Bromomethane | 2.959 | 94 | 29007 | 16.174 | ug/l | 85 |
| 6) Chloroethane | 3.124 | 64 | 30696 | 16.308 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.500 | 101 | 72915 | 16.926 | ug/l | 95 |
| 8) Diethyl Ether | 3.959 | 74 | 26002 | 17.472 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 42772 | 17.628 | ug/l | 100 |
| 10) Methyl Iodide | 4.589 | 142 | 49008 | 17.637 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.518 | 59 | 41107 | 110.375 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 4.336 | 96 | 37531 | 17.356 | ug/l | 90 |
| 13) Acrolein | 4.183 | 56 | 40300 | 79.268 | ug/l | 99 |
| 14) Allyl chloride | 5.018 | 41 | 58987 | 16.810 | ug/l | 98 |
| 15) Acrylonitrile | 5.712 | 53 | 113725 | 96.136 | ug/l | 100 |
| 16) Acetone | 4.418 | 43 | 100927 | 96.038 | ug/l | 100 |
| 17) Carbon Disulfide | 4.712 | 76 | 95341 | 14.319 | ug/l | 99 |
| 18) Methyl Acetate | 5.018 | 43 | 65466 | 20.486 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.789 | 73 | 136305 | 19.412 | ug/l | 99 |
| 20) Methylene Chloride | 5.271 | 84 | 45079 | 17.327 | ug/l | 93 |
| 21) trans-1,2-Dichloroethene | 5.789 | 96 | 39558 | 17.117 | ug/l | 96 |
| 22) Diisopropyl ether | 6.665 | 45 | 147381 | 18.923 | ug/l | 97 |
| 23) Vinyl Acetate | 6.600 | 43 | 518523 | 95.132 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.559 | 63 | 84264 | 17.743 | ug/l | 99 |
| 25) 2-Butanone | 7.483 | 43 | 151647 | 98.058 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.488 | 77 | 74832 | 19.490 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.483 | 96 | 48290 | 17.741 | ug/l | 95 |
| 28) Bromochloromethane | 7.812 | 49 | 38579 | 17.461 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.835 | 42 | 97200 | 99.134 | ug/l | 99 |
| 30) Chloroform | 7.965 | 83 | 87982 | 17.925 | ug/l | 96 |
| 31) Cyclohexane | 8.253 | 56 | 66438 | 16.096 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 77155 | 17.920 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.371 | 75 | 57133 | 17.249 | ug/l | 99 |
| 37) Ethyl Acetate | 7.553 | 43 | 61946 | 18.528 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 67504 | 17.801 | ug/l | 97 |
| 39) Methylcyclohexane | 9.600 | 83 | 52296 | 16.801 | ug/l | 97 |
| 40) Benzene | 8.600 | 78 | 180711 | 18.157 | ug/l | 98 |

Sample Results: **VN085520.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085520.D
Acq On : 27 Jan 2025 16:46
Operator : JC\MD
Sample : VN0127WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 28 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.771 | 41 | 33694 | 19.371 ug/l | 98 |
| 42) 1,2-Dichloroethane | 8.671 | 62 | 70495 | 18.807 ug/l | 99 |
| 43) Isopropyl Acetate | 8.682 | 43 | 103570 | 19.333 ug/l | 99 |
| 44) Trichloroethene | 9.347 | 130 | 41488 | 17.908 ug/l | 87 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 45946 | 18.074 ug/l | 98 |
| 46) Dibromomethane | 9.706 | 93 | 33962 | 18.515 ug/l | 99 |
| 47) Bromodichloromethane | 9.882 | 83 | 71647 | 19.172 ug/l | 99 |
| 48) Methyl methacrylate | 9.677 | 41 | 46908 | 19.457 ug/l | 97 |
| 49) 1,4-Dioxane | 9.694 | 88 | 17074 | 420.559 ug/l # | 93 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 320825 | 103.202 ug/l | 100 |
| 52) Toluene | 10.629 | 92 | 109132 | 18.925 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.829 | 75 | 68929 | 19.518 ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 10.312 | 75 | 71135 | 18.857 ug/l | 97 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 44242 | 19.386 ug/l | 97 |
| 56) Ethyl methacrylate | 10.871 | 69 | 63624 | 17.842 ug/l | 98 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 74624 | 18.805 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 128650 | 88.832 ug/l | 99 |
| 59) 2-Hexanone | 11.194 | 43 | 228088 | 104.275 ug/l | 100 |
| 60) Dibromochloromethane | 11.359 | 129 | 52631 | 19.102 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 43380 | 19.096 ug/l | 96 |
| 64) Tetrachloroethene | 11.100 | 164 | 37711 | 18.573 ug/l | 98 |
| 65) Chlorobenzene | 11.888 | 112 | 120046 | 18.399 ug/l | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 44226 | 18.469 ug/l | 99 |
| 67) Ethyl Benzene | 11.959 | 91 | 197539 | 18.589 ug/l | 98 |
| 68) m/p-Xylenes | 12.070 | 106 | 152037 | 38.711 ug/l | 99 |
| 69) o-Xylene | 12.394 | 106 | 71148 | 18.956 ug/l | 99 |
| 70) Styrene | 12.406 | 104 | 121008 | 19.481 ug/l | 99 |
| 71) Bromoform | 12.576 | 173 | 34534 | 20.155 ug/l # | 99 |
| 73) Isopropylbenzene | 12.694 | 105 | 182673 | 19.042 ug/l | 100 |
| 74) N-amyl acetate | 12.494 | 43 | 83274 | 19.312 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 65114 | 19.215 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.994 | 75 | 51898m | 17.964 ug/l | |
| 77) Bromobenzene | 12.976 | 156 | 46207 | 18.436 ug/l | 96 |
| 78) n-propylbenzene | 13.035 | 91 | 220924 | 19.453 ug/l | 100 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 139334 | 18.957 ug/l | 98 |
| 80) 1,3,5-Trimethylbenzene | 13.170 | 105 | 156321 | 19.727 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.729 | 75 | 21572 | 20.202 ug/l | 98 |
| 82) 4-Chlorotoluene | 13.217 | 91 | 140536 | 19.203 ug/l | 100 |
| 83) tert-Butylbenzene | 13.435 | 119 | 127363 | 19.139 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.482 | 105 | 156143 | 19.770 ug/l | 99 |
| 85) sec-Butylbenzene | 13.612 | 105 | 180596 | 19.581 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.729 | 119 | 149717 | 19.503 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 87188 | 18.889 ug/l | 98 |
| 88) 1,4-Dichlorobenzene | 13.812 | 146 | 86342 | 18.047 ug/l | 99 |
| 89) n-Butylbenzene | 14.053 | 91 | 119951 | 18.129 ug/l | 98 |
| 90) Hexachloroethane | 14.329 | 117 | 30919 | 17.610 ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 85986 | 18.676 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 12784 | 20.659 ug/l | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.394 | 180 | 38523 | 18.002 ug/l | 97 |
| 94) Hexachlorobutadiene | 15.494 | 225 | 19815 | 17.442 ug/l | 96 |
| 95) Naphthalene | 15.641 | 128 | 114951 | 18.002 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 39137 | 18.075 ug/l | 99 |

Sample Results: **VN085520.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085520.D
Acq On : 27 Jan 2025 16:46
Operator : JC\MD
Sample : VN0127WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

Quant Time: Jan 28 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

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

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

Quantitation Report (QT Reviewed)

Sample Results: **VN085520.D**

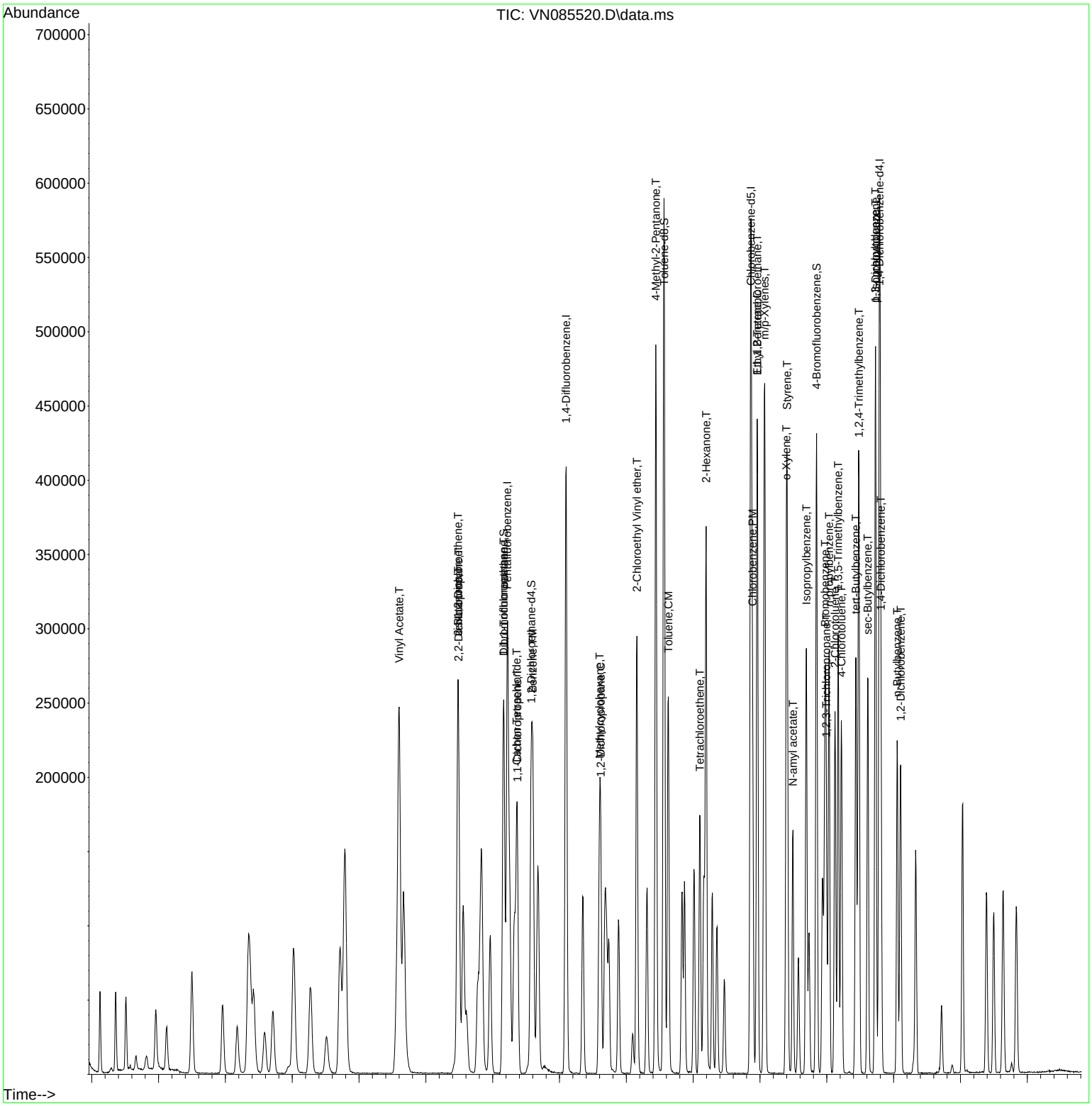
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
Data File : VN085520.D
Acq On : 27 Jan 2025 16:46
Operator : JC\MD
Sample : VN0127WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

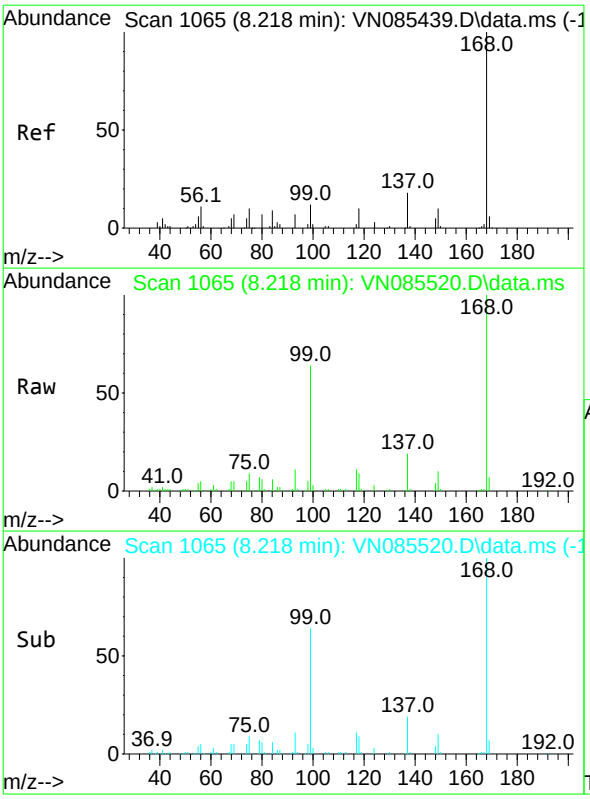
Quant Time: Jan 28 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

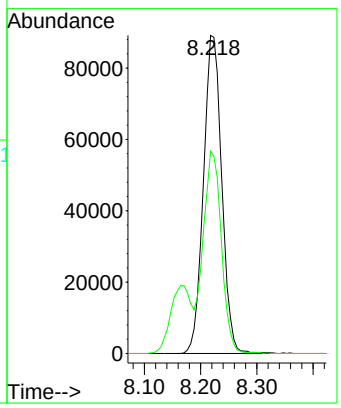
Tgt Ion:168 Resp: 201491

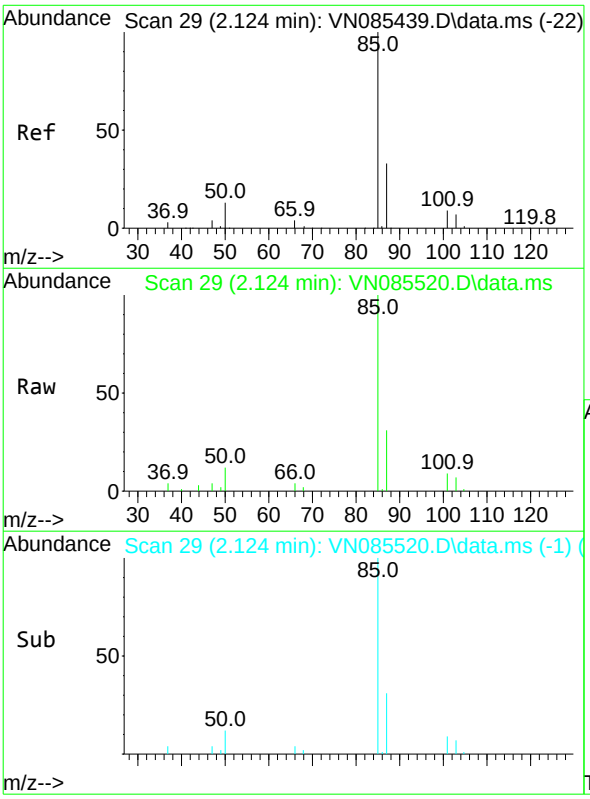
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.6 | 53.6 | 80.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

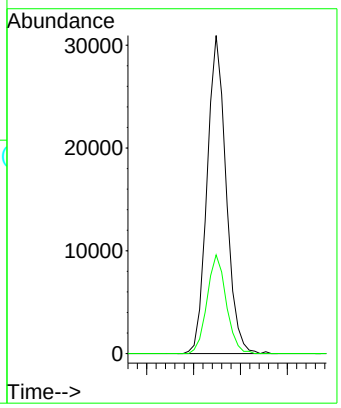


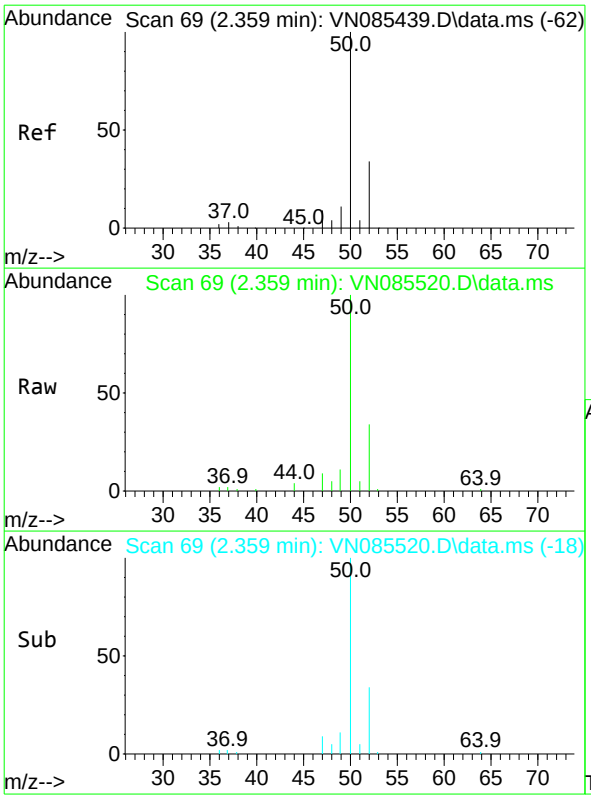




#2
Dichlorodifluoromethane
Concen: 15.979 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 85 Resp: 43592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.0 | 16.7 | 50.1 |






#3
Chloromethane
Concen: 15.564 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

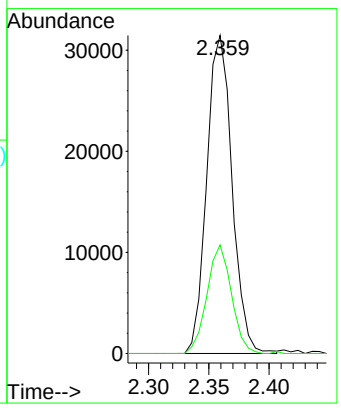
Tgt Ion: 50 Resp: 45973

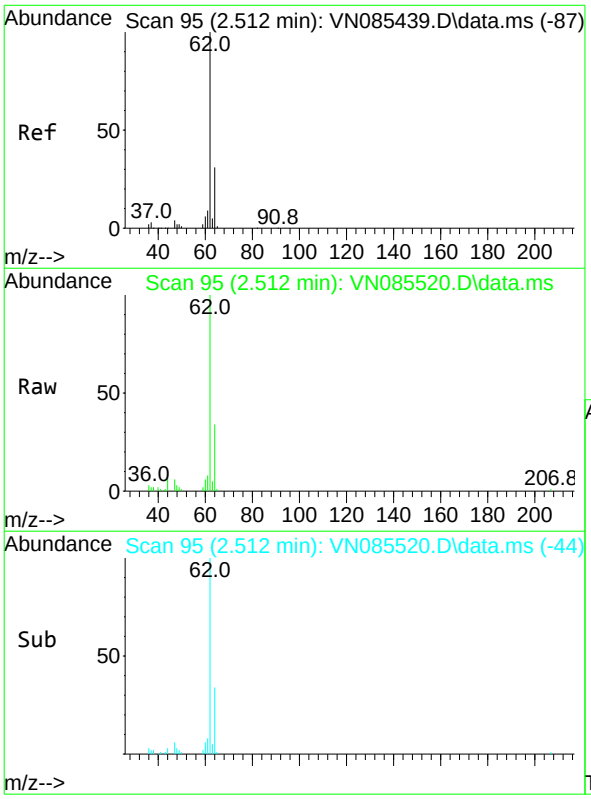
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.1 | 27.0 | 40.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

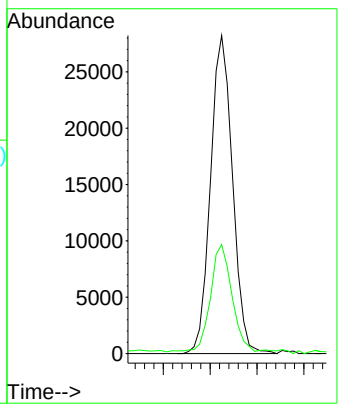


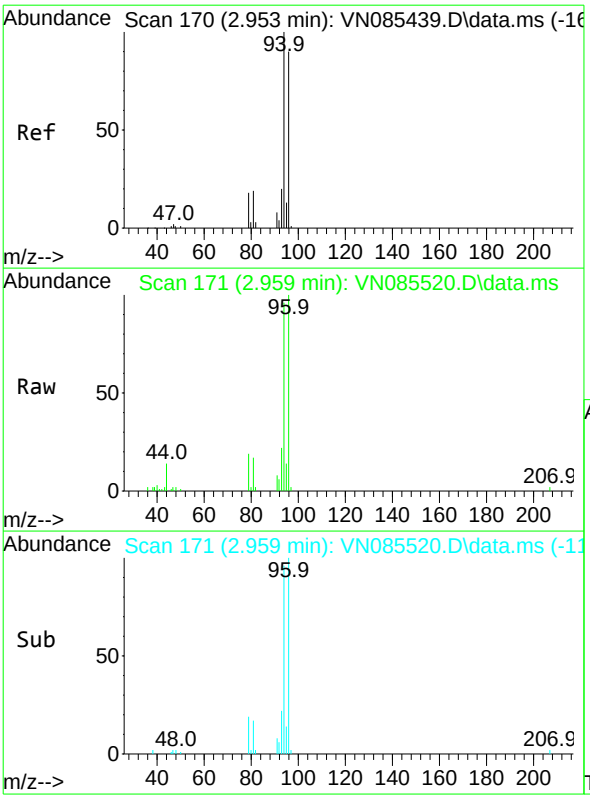




#4
Vinyl Chloride
Concen: 15.494 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 62 Resp: 46002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.4 | 24.8 | 37.2 |






#5
Bromomethane
Concen: 16.174 ug/l
RT: 2.959 min Scan# 17
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

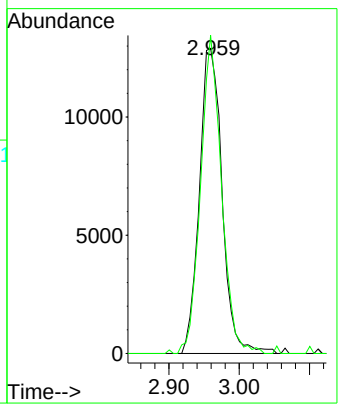
Tgt Ion: 94 Resp: 29007

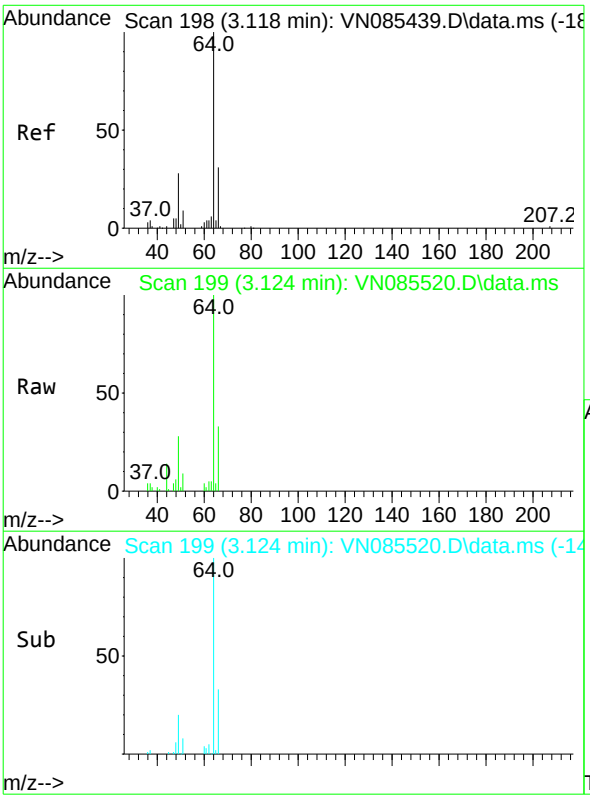
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 104.2 | 71.8 | 107.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

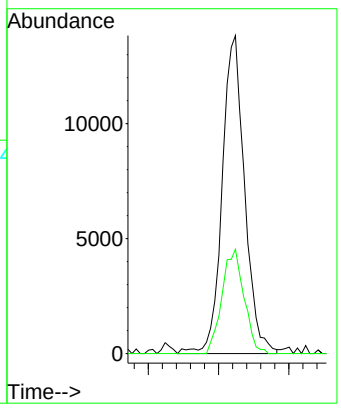


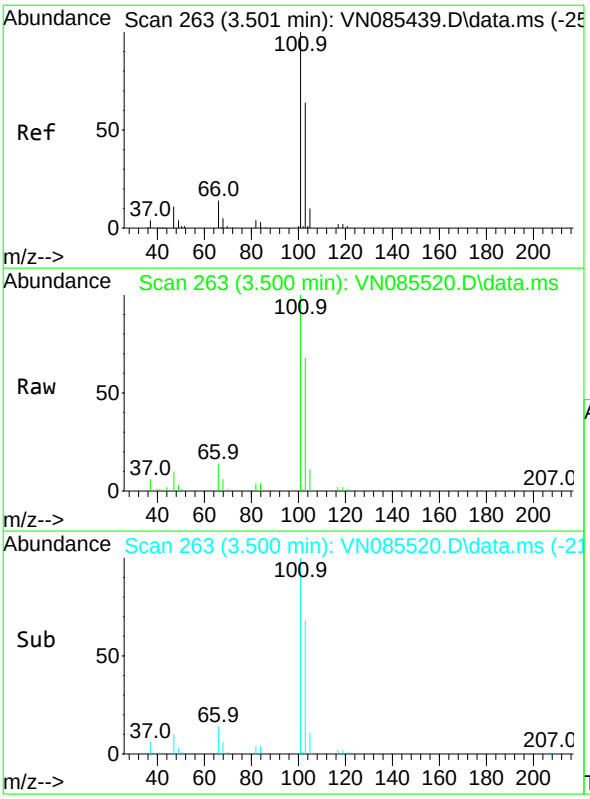




#6
Chloroethane
Concen: 16.308 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 64 Resp: 30696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.8 | 24.6 | 36.8 |






#7
Trichlorofluoromethane
Concen: 16.926 ug/l
RT: 3.500 min Scan# 26
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:101 Resp: 72915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 68.1 | 51.4 | 77.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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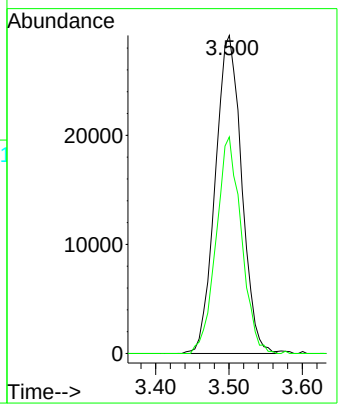
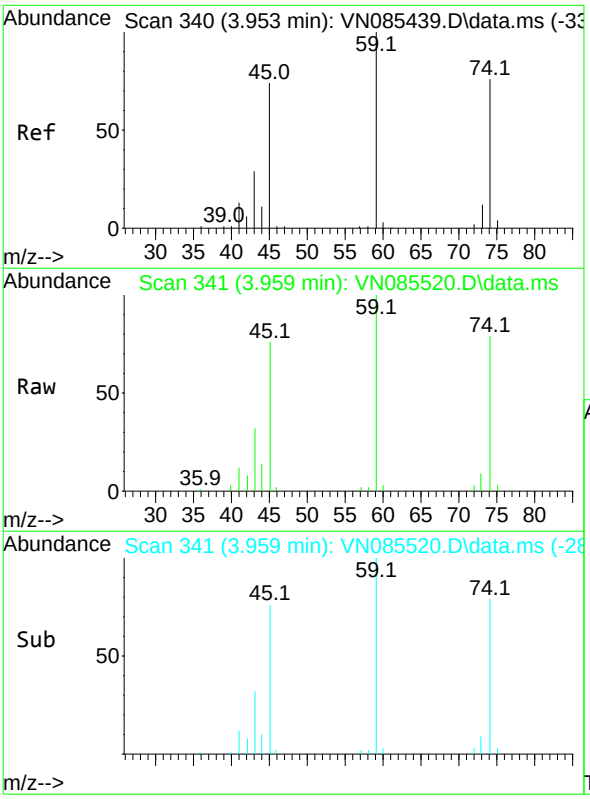
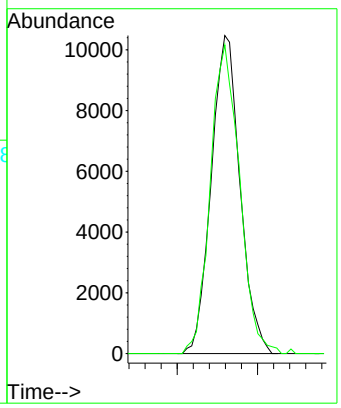


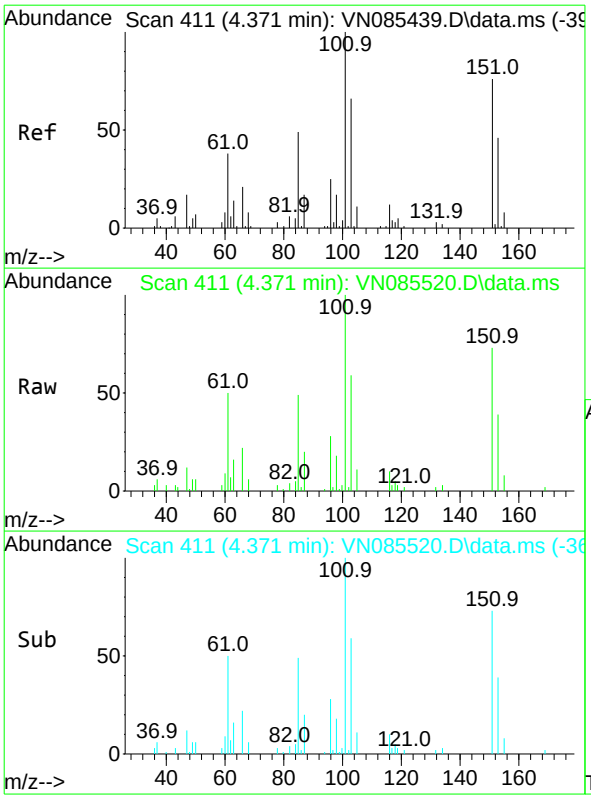




#8
Diethyl Ether
Concen: 17.472 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 74 Resp: 26002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.9 | 49.7 | 149.1 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.628 ug/l
RT: 4.371 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

Tgt Ion:101 Resp: 42772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.3 | 37.8 | 56.8 |
| 151 | 73.4 | 58.8 | 88.2 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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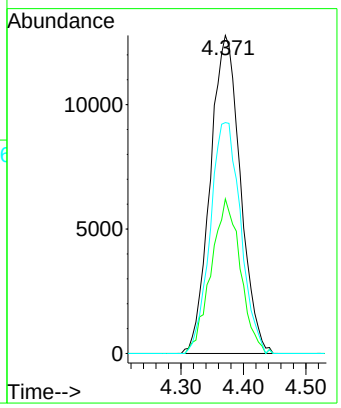
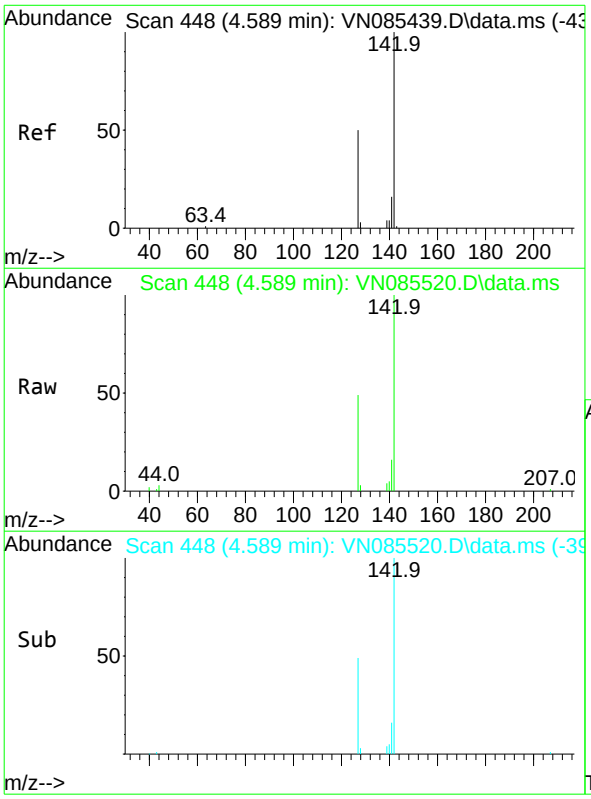
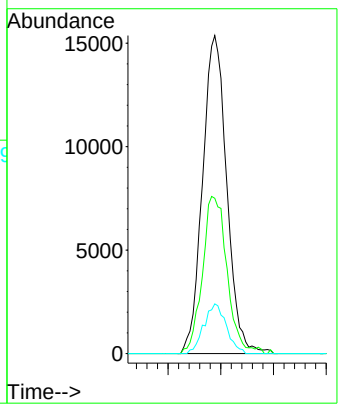


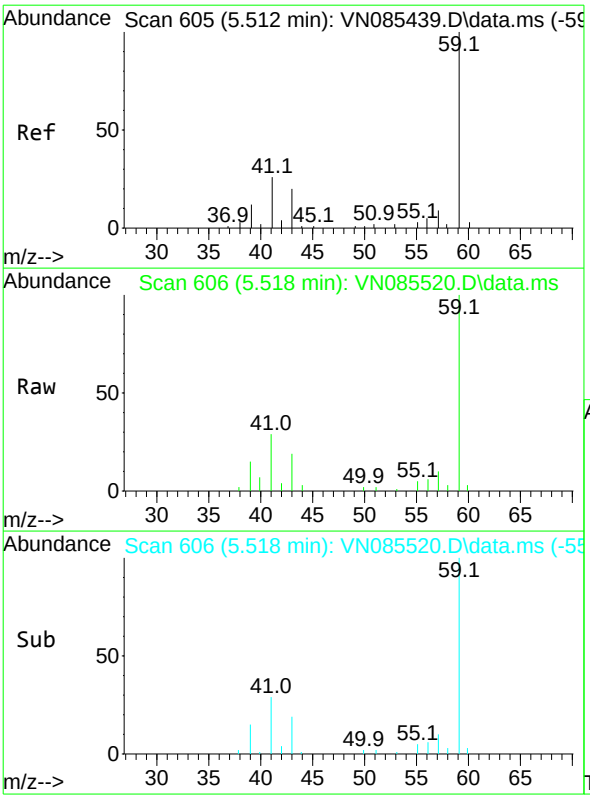




#10
Methyl Iodide
Concen: 17.637 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:142 Resp: 49008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 48.8 | 40.3 | 60.5 |
| 141 | 15.6 | 12.8 | 19.2 |






#11
Tert butyl alcohol
Concen: 110.375 ug/l
RT: 5.518 min Scan# 60
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

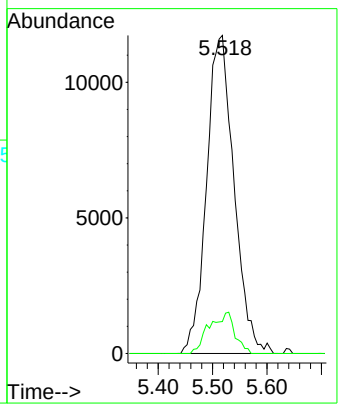
Tgt Ion: 59 Resp: 41107

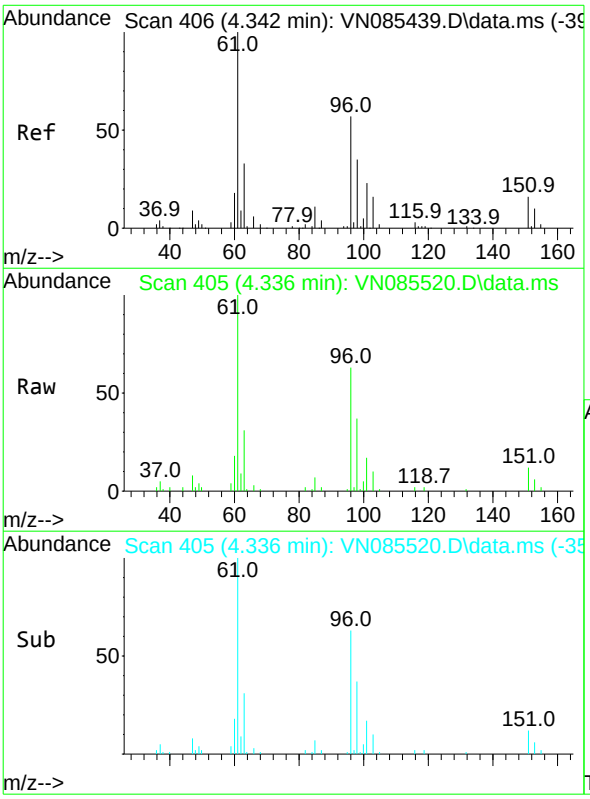
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 12.1 | 8.6 | 13.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

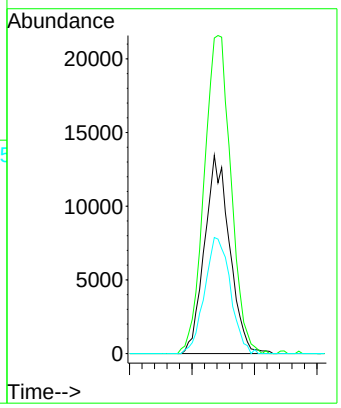


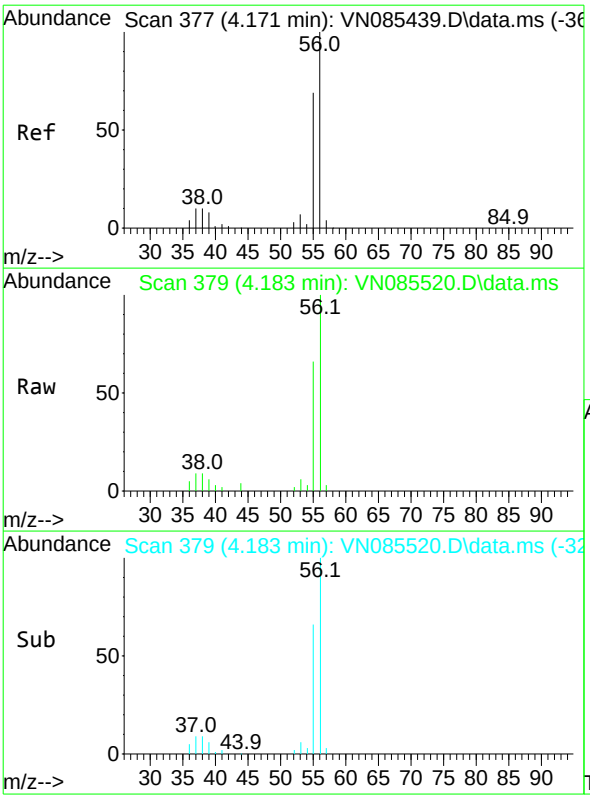




#12
1,1-Dichloroethene
Concen: 17.356 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 96 Resp: 37531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 159.2 | 141.0 | 211.4 |
| 98 | 58.6 | 49.0 | 73.6 |






#13
Acrolein
Concen: 79.268 ug/l
RT: 4.183 min Scan# 37
Delta R.T. 0.012 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

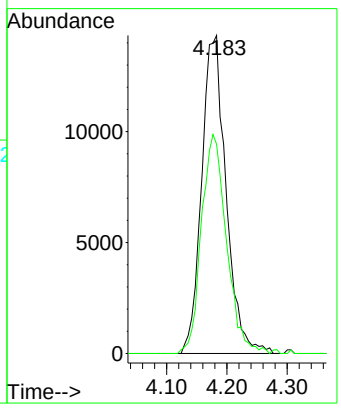
Tgt Ion: 56 Resp: 40300

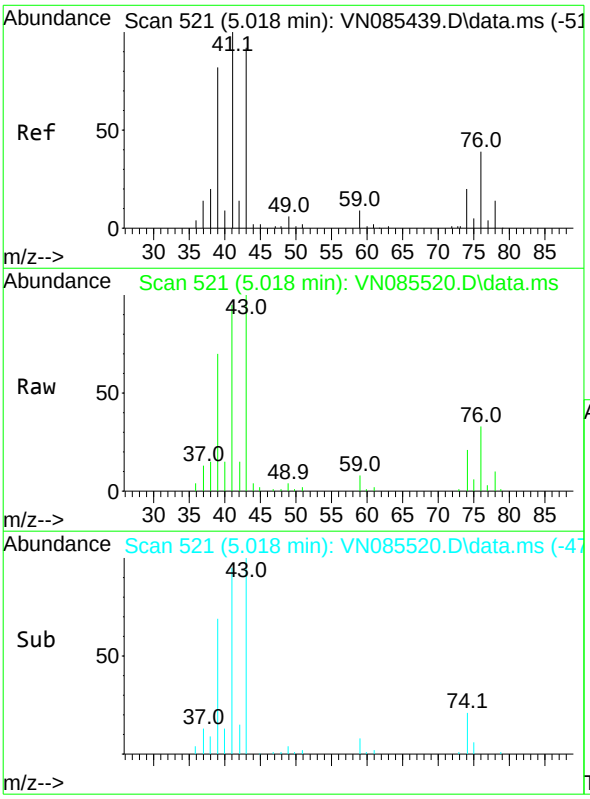
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.9 | 56.3 | 84.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

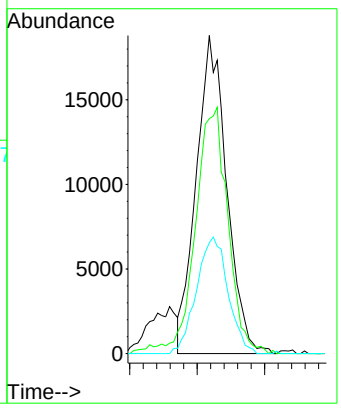


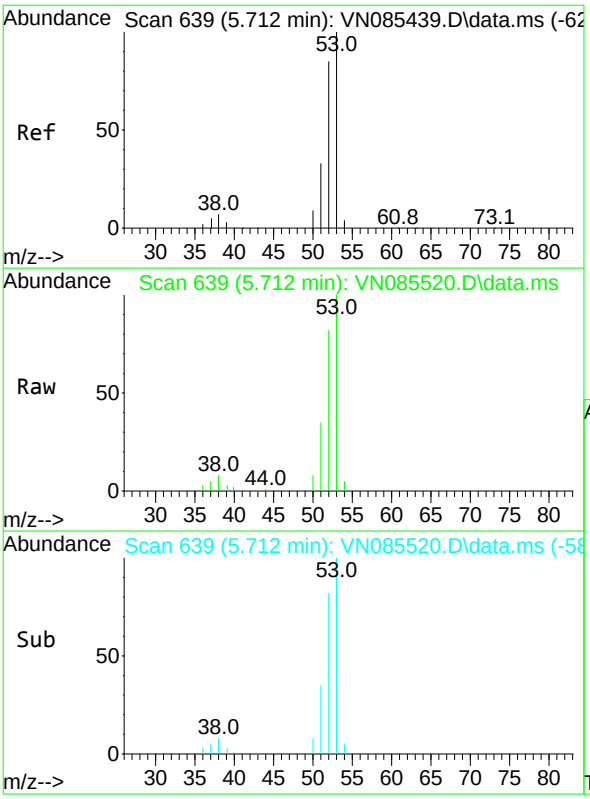




#14
Allyl chloride
Concen: 16.810 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 41 Resp: 58987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 82.9 | 64.4 | 96.6 |
| 76 | 37.8 | 30.5 | 45.7 |






#15
Acrylonitrile
Concen: 96.136 ug/l
RT: 5.712 min Scan# 63
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 53 Resp: 113725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.9 | 65.5 | 98.3 |
| 51 | 37.4 | 29.8 | 44.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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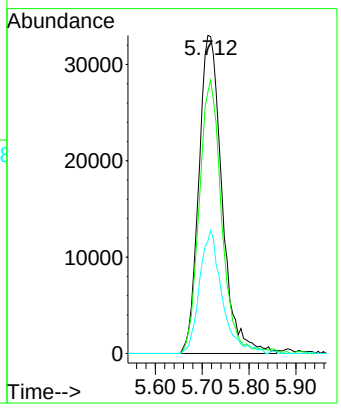
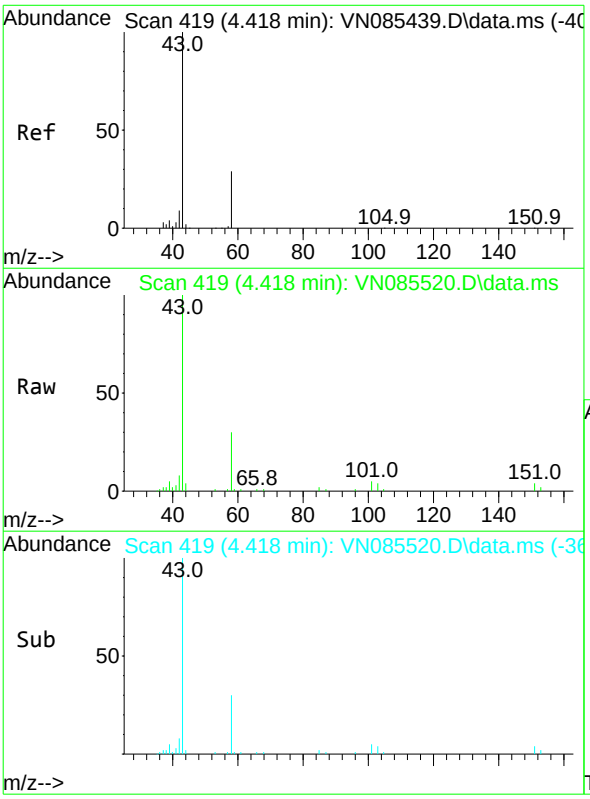
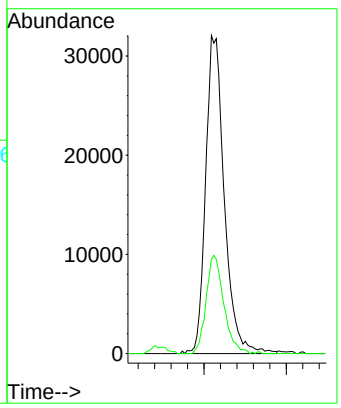


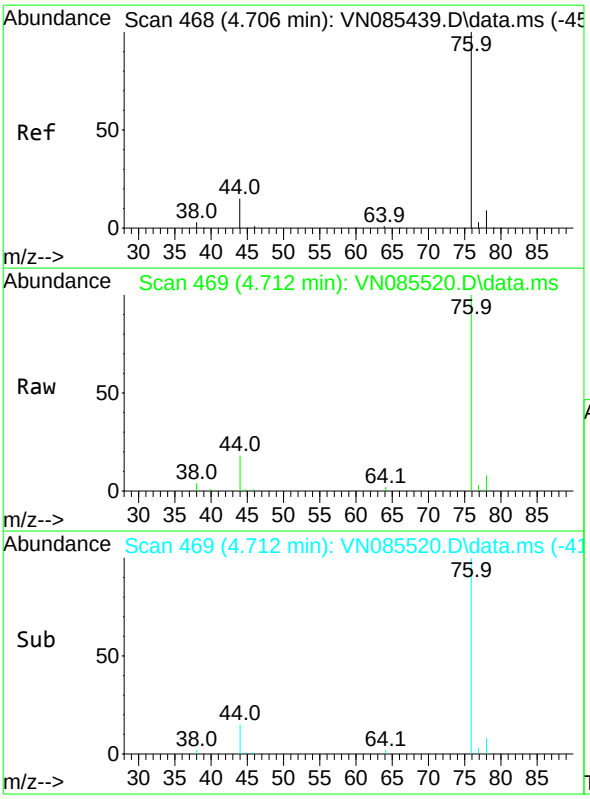




#16
Acetone
Concen: 96.038 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 43 Resp: 100927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.6 | 23.8 | 35.6 |






#17
Carbon Disulfide
Concen: 14.319 ug/l
RT: 4.712 min Scan# 46
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 76 Resp: 95341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.4 | 6.9 | 10.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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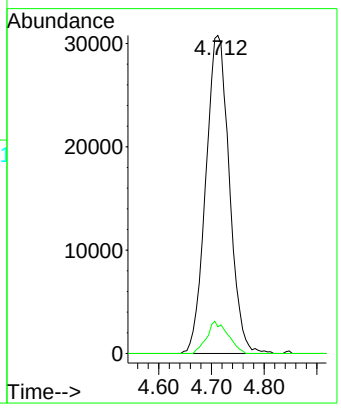
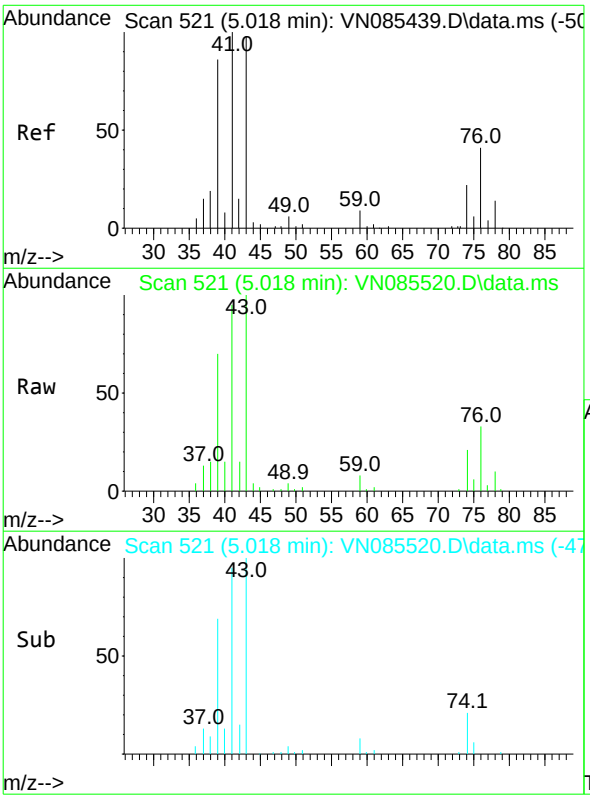
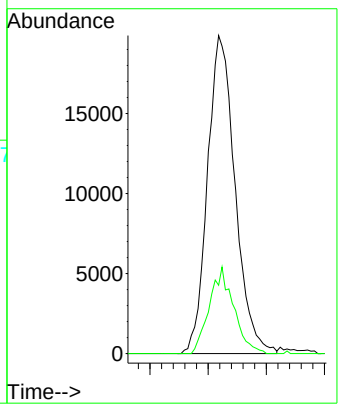


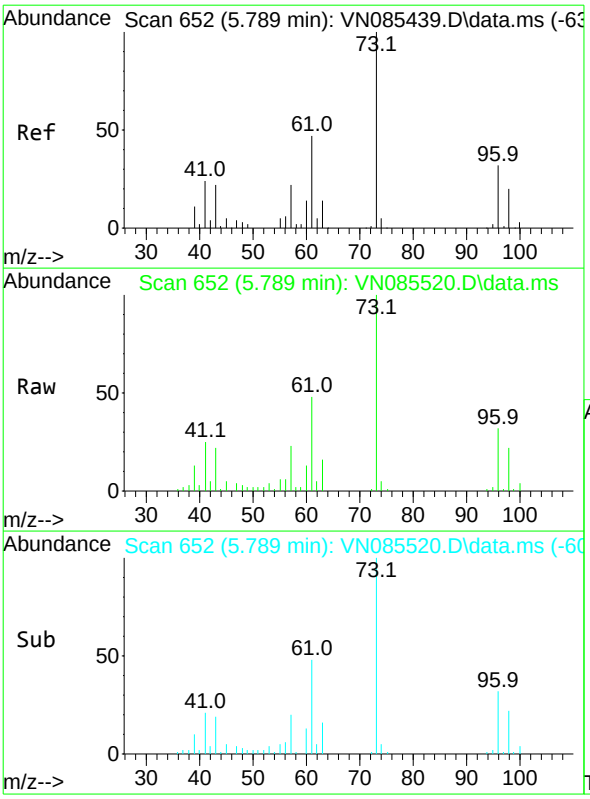




#18
Methyl Acetate
Concen: 20.486 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 43 Resp: 65466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.0 | 18.6 | 28.0 |






#19
Methyl tert-butyl Ether
Concen: 19.412 ug/l
RT: 5.789 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 73 Resp: 136305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.9 | 17.8 | 26.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

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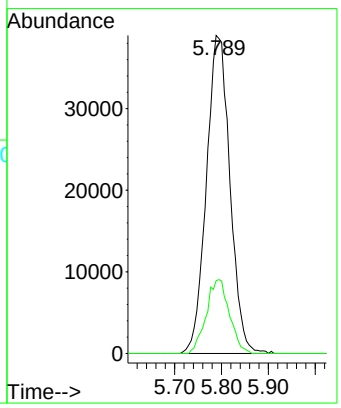
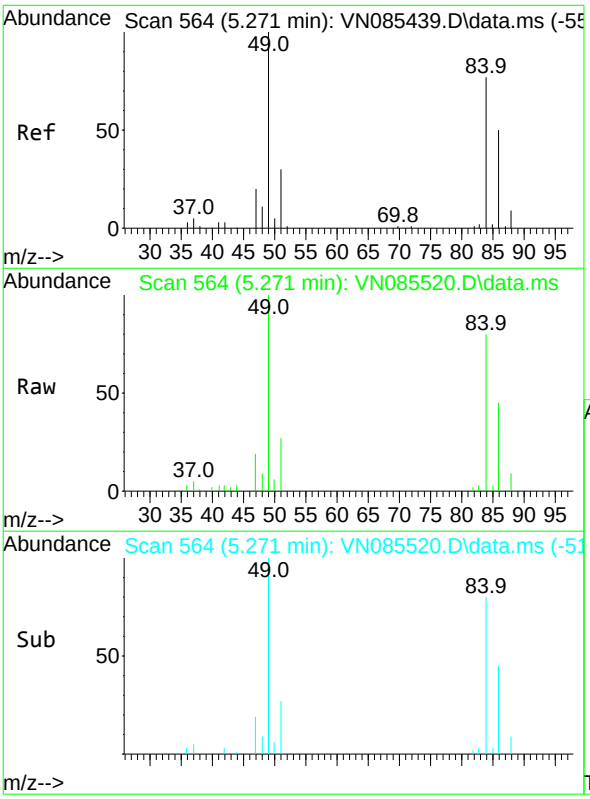
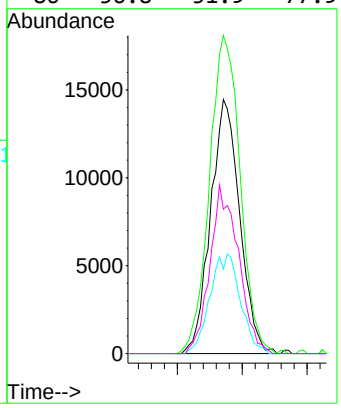


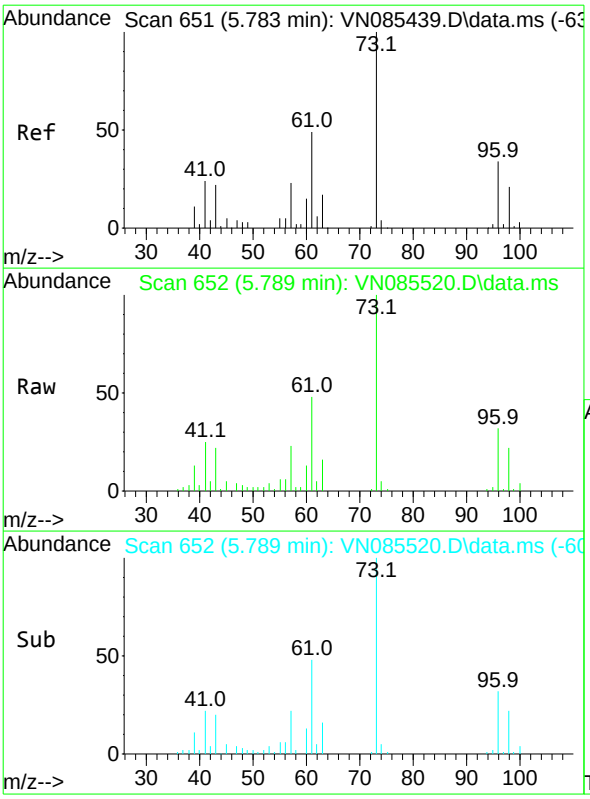




#20
Methylene Chloride
Concen: 17.327 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 84 Resp: 45079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 125.2 | 104.1 | 156.1 |
| 51 | 33.2 | 31.0 | 46.4 |
| 86 | 56.8 | 51.9 | 77.9 |






#21
trans-1,2-Dichloroethene
Concen: 17.117 ug/l
RT: 5.789 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

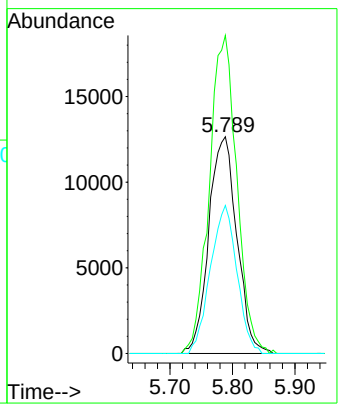
Tgt Ion: 96 Resp: 39558

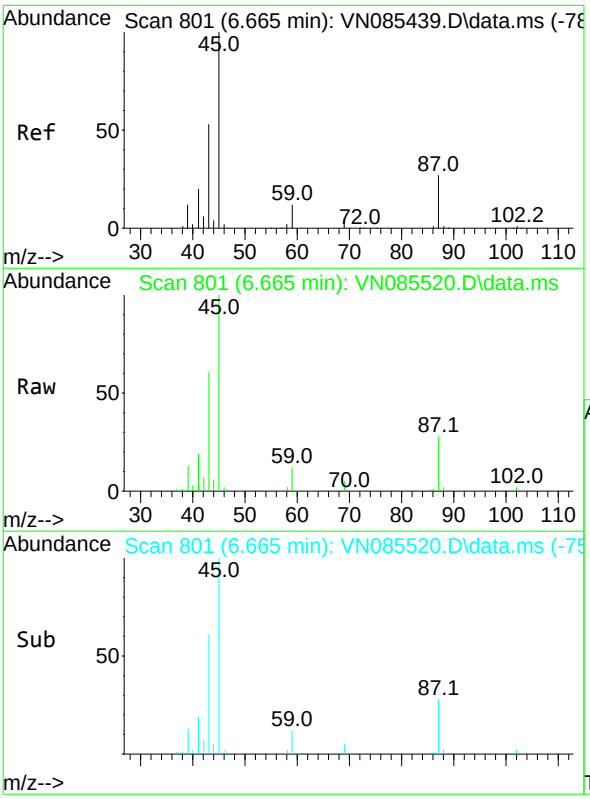
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 146.7 | 115.7 | 173.5 |
| 98 | 68.3 | 49.8 | 74.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

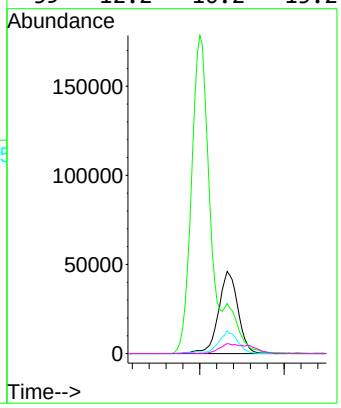


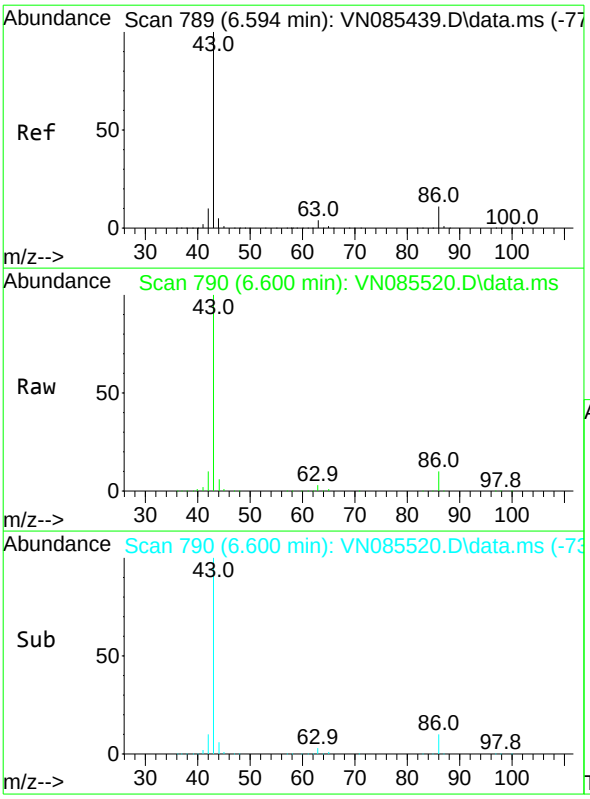




#22
Diisopropyl ether
Concen: 18.923 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 45 Resp: 147381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.4 | 45.0 | 67.6 |
| 87 | 27.7 | 21.8 | 32.8 |
| 59 | 12.2 | 10.2 | 15.2 |






#23
Vinyl Acetate
Concen: 95.132 ug/l
RT: 6.600 min Scan# 79
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

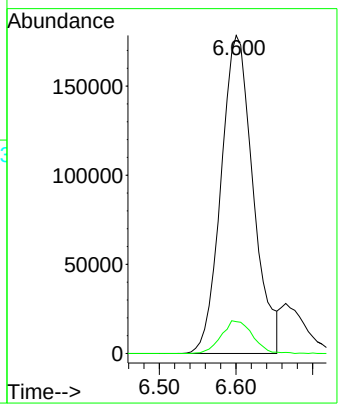
Tgt Ion: 43 Resp: 518523

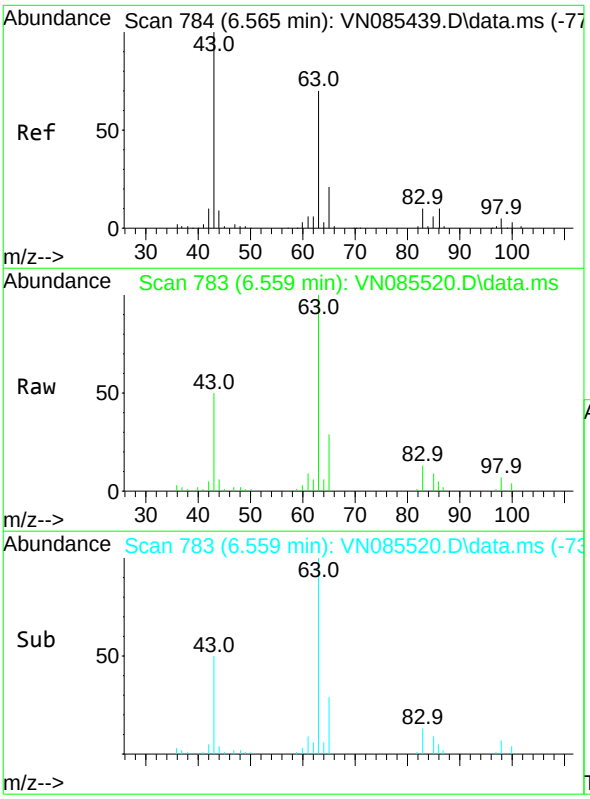
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.0 | 8.4 | 12.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

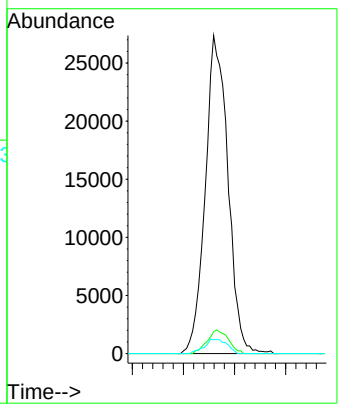


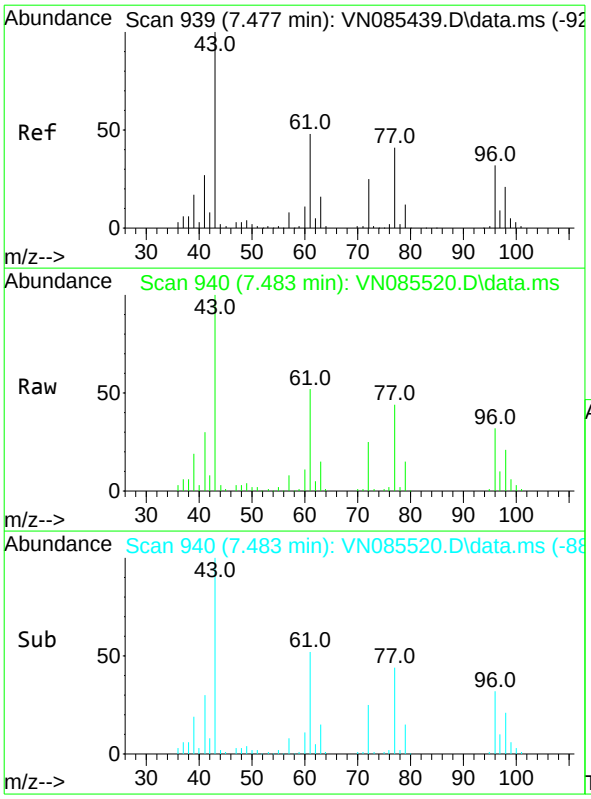




#24
1,1-Dichloroethane
Concen: 17.743 ug/l
RT: 6.559 min Scan# 783
Delta R.T. -0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 63 Resp: 84264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.9 | 3.3 | 9.8 |
| 100 | 4.4 | 2.0 | 6.0 |






#25
2-Butanone
Concen: 98.058 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 43 Resp: 151647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.8 | 20.2 | 30.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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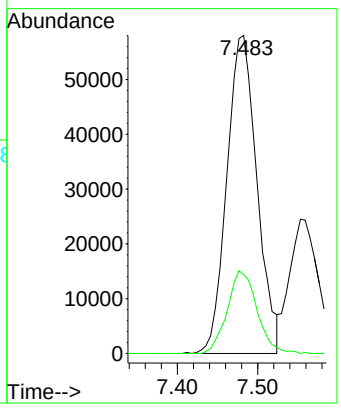
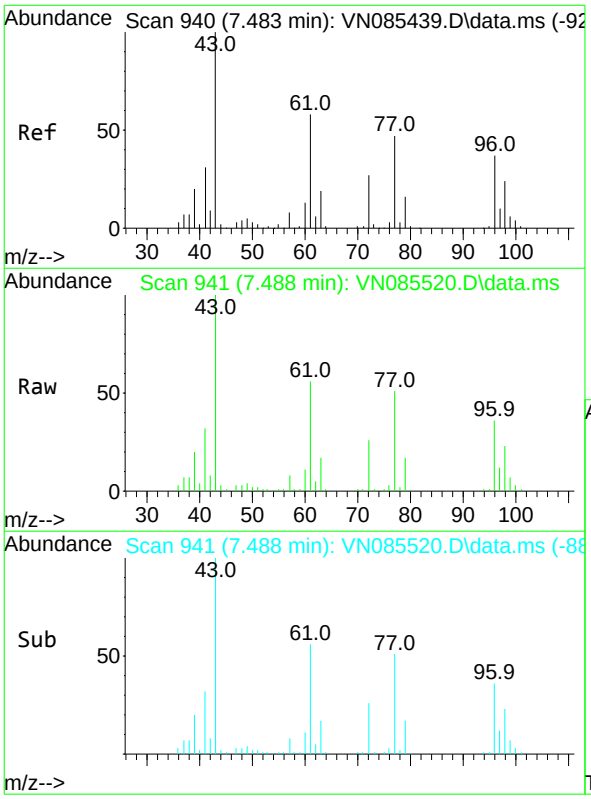
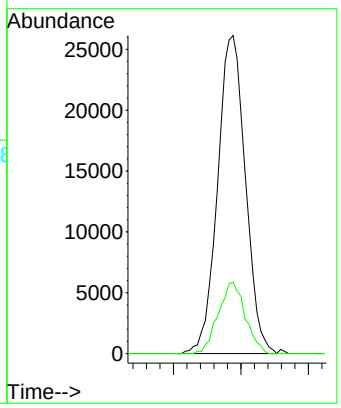


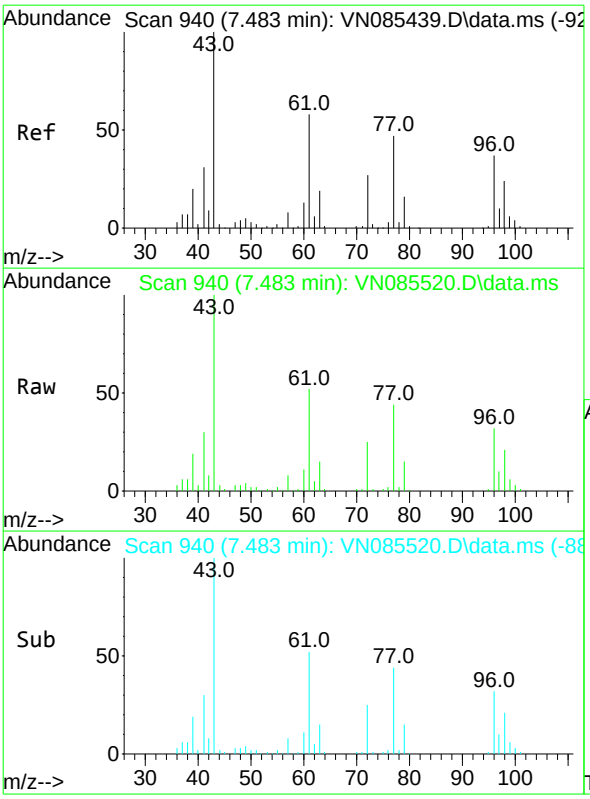




#26
2,2-Dichloropropane
Concen: 19.490 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 77 Resp: 74832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.7 | 10.7 | 32.1 |






#27
cis-1,2-Dichloroethene
Concen: 17.741 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 96 Resp: 48290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.9 | 0.0 | 311.8 |
| 98 | 67.2 | 0.0 | 126.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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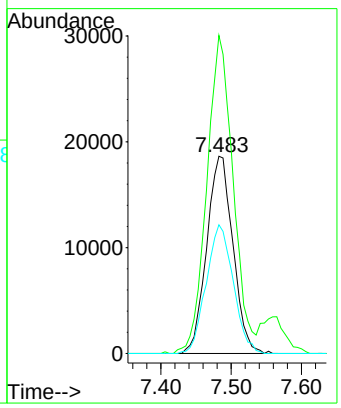
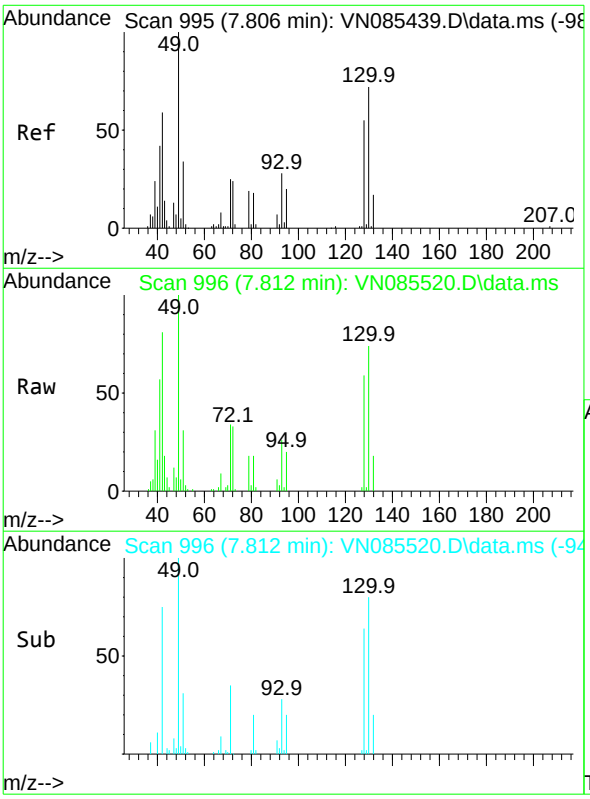
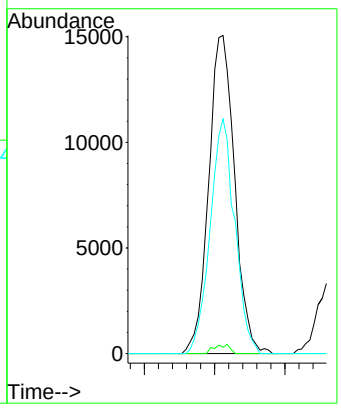


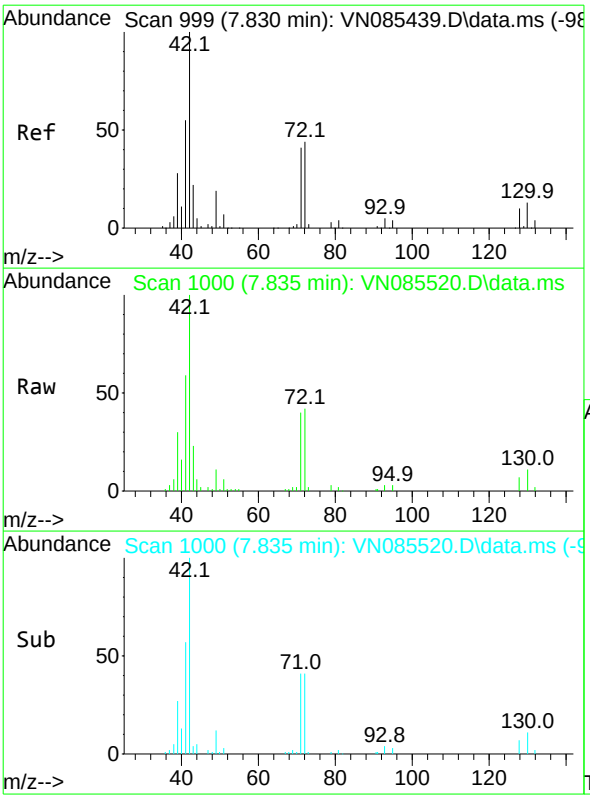




#28
Bromochloromethane
Concen: 17.461 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 49 Resp: 38579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.7 | 0.0 | 4.4 |
| 130 | 70.2 | 55.0 | 82.4 |






#29
Tetrahydrofuran
Concen: 99.134 ug/l
RT: 7.835 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 42 Resp: 97200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 43.5 | 34.2 | 51.2 |
| 71 | 40.5 | 32.5 | 48.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
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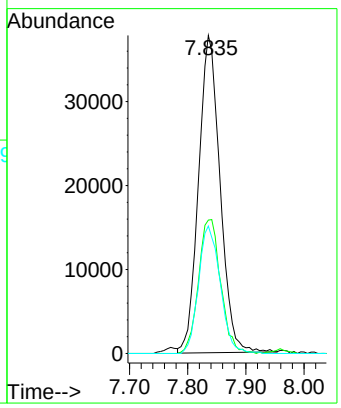
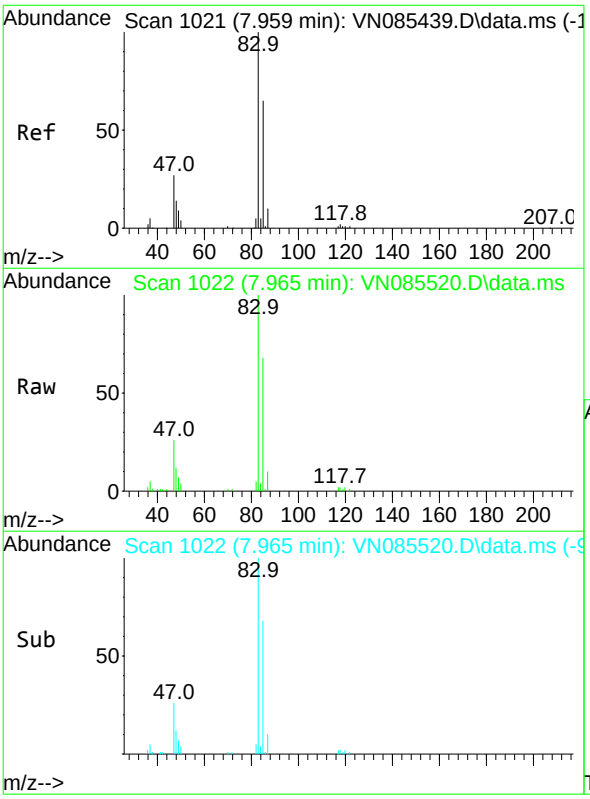
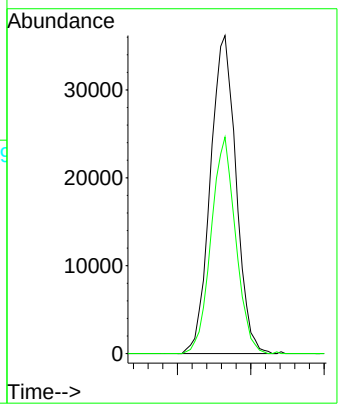


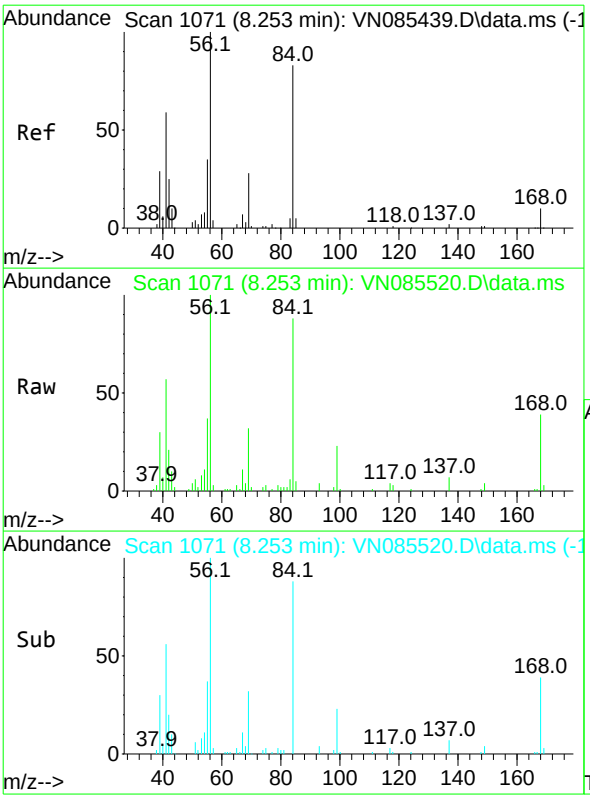




#30
Chloroform
Concen: 17.925 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 83 Resp: 87982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 68.1 | 51.8 | 77.6 |






#31
Cyclohexane
Concen: 16.096 ug/l
RT: 8.253 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 56 Resp: 66438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.6 | 22.2 | 33.4 |
| 84 | 86.2 | 66.4 | 99.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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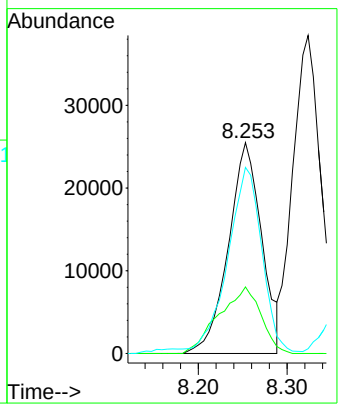
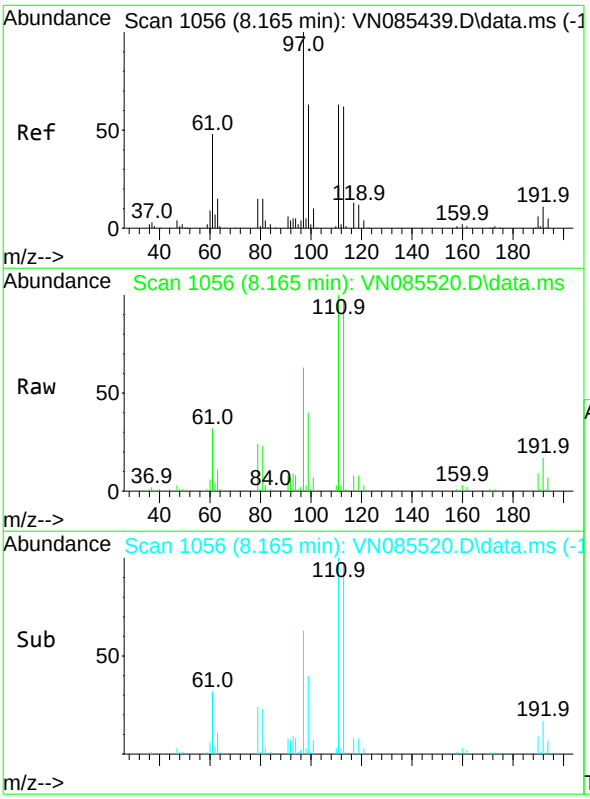
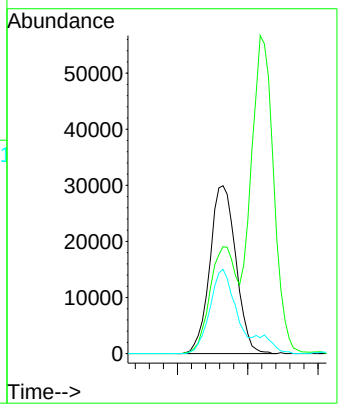


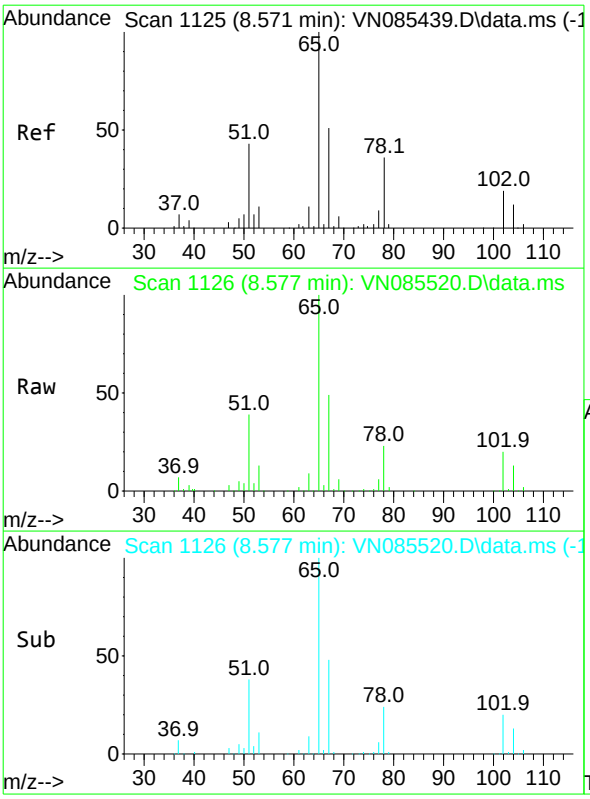




#32
1,1,1-Trichloroethane
Concen: 17.920 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 97 Resp: 77155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.6 | 49.8 | 74.6 |
| 61 | 50.0 | 41.4 | 62.2 |






#33
1,2-Dichloroethane-d4
Concen: 47.644 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

Tgt Ion: 65 Resp: 154960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.3 | 0.0 | 101.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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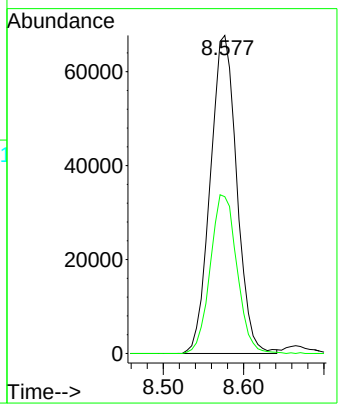
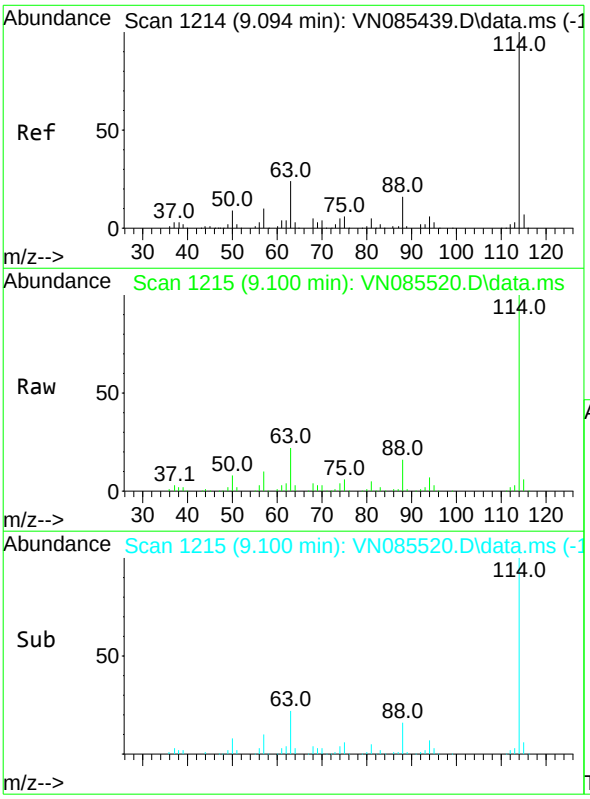
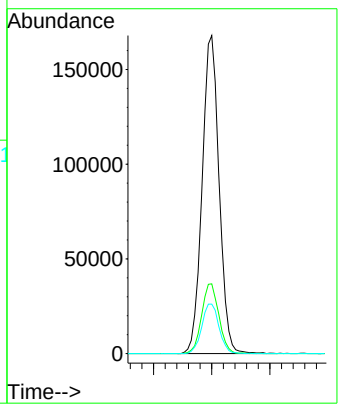


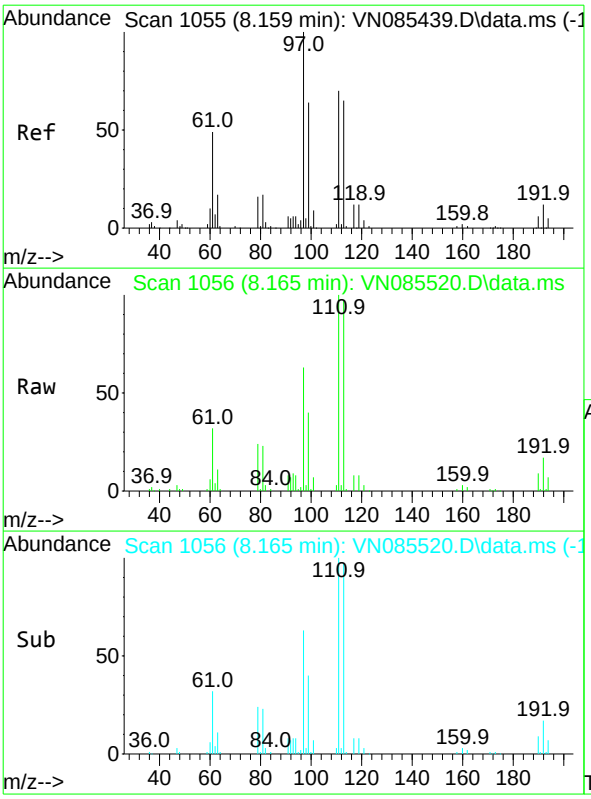




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:114 Resp: 340191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.9 | 0.0 | 47.6 |
| 88 | 15.5 | 0.0 | 32.6 |






#35
Dibromofluoromethane
Concen: 47.966 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:113 Resp: 113203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.9 | 82.7 | 124.1 |
| 192 | 17.5 | 14.3 | 21.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
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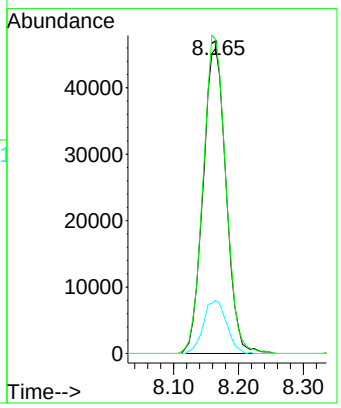
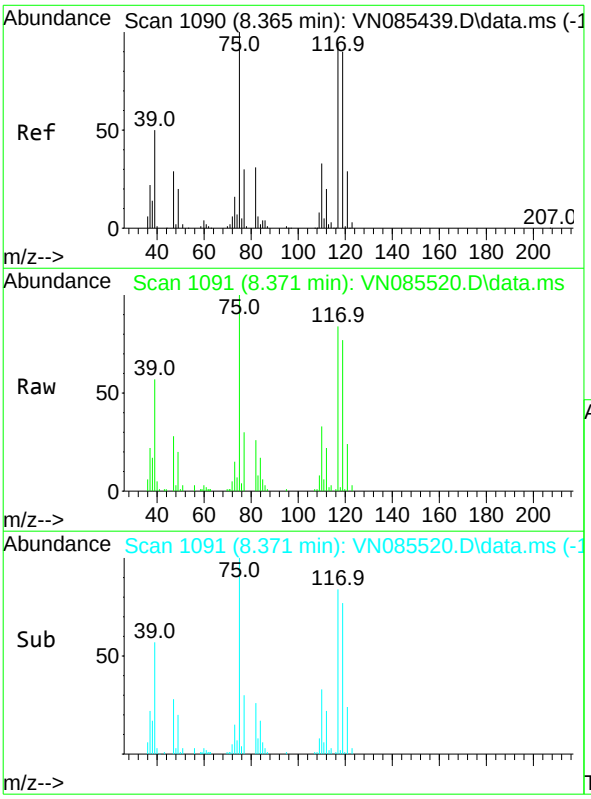
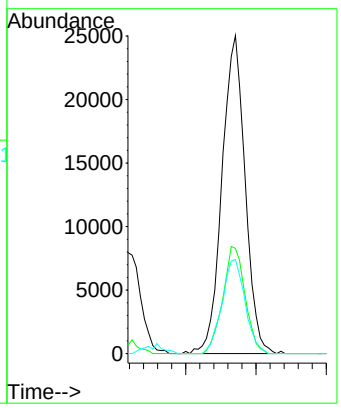


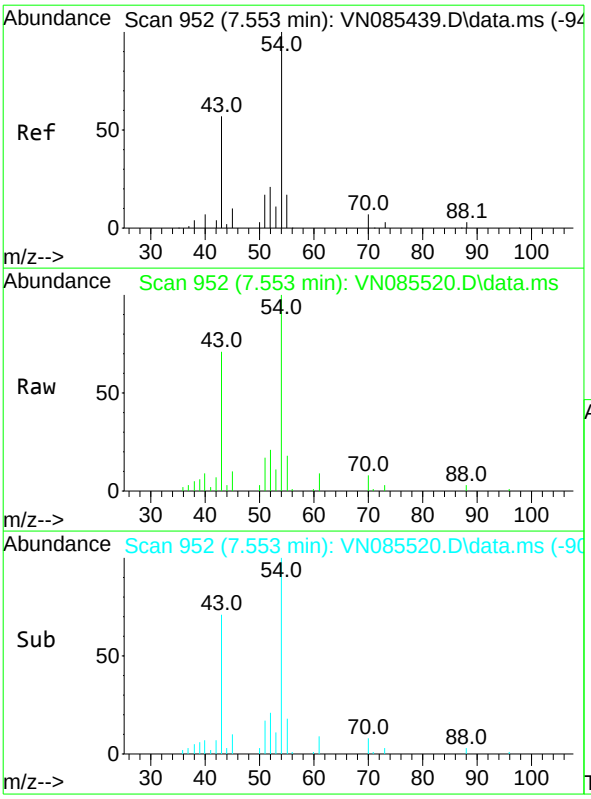




#36
1,1-Dichloropropene
Concen: 17.249 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 75 Resp: 57133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 32.4 | 16.5 | 49.5 |
| 77 | 29.7 | 24.4 | 36.6 |






#37
Ethyl Acetate
Concen: 18.528 ug/l
RT: 7.553 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 43 Resp: 61946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.2 | 10.9 | 16.3 |
| 70 | 10.1 | 7.5 | 11.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

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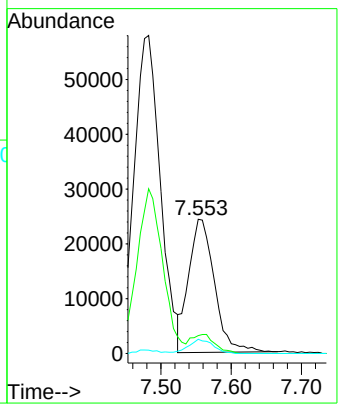
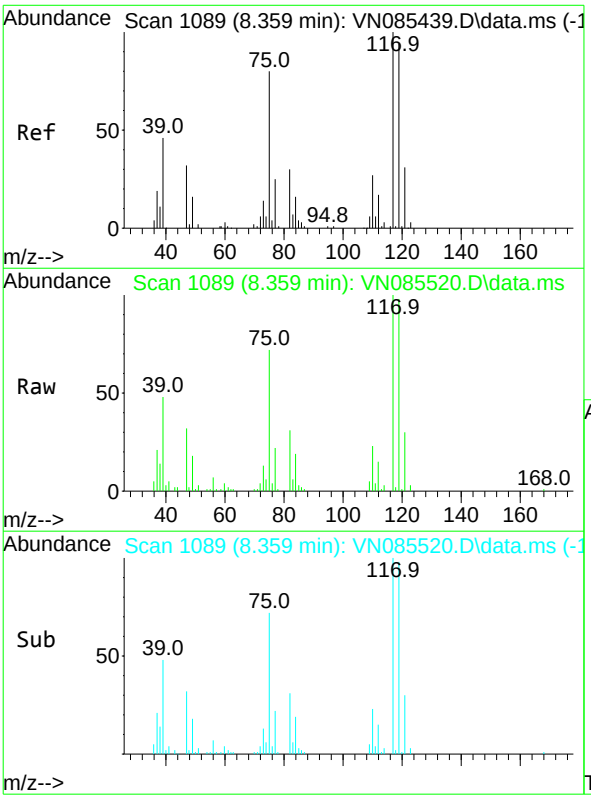
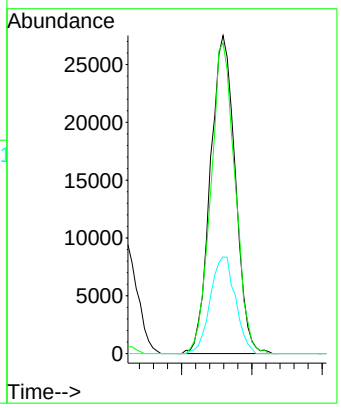


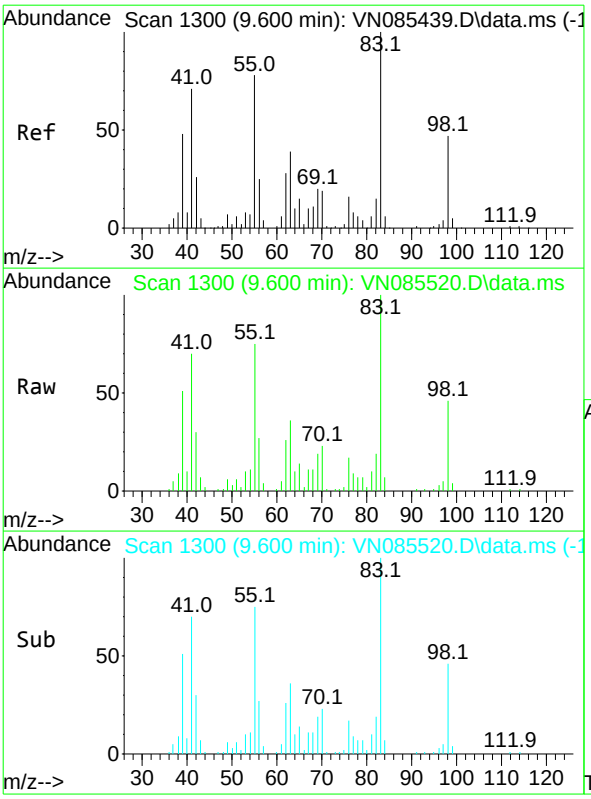




#38
Carbon Tetrachloride
Concen: 17.801 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:117 Resp: 67504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.7 | 75.4 | 113.2 |
| 121 | 30.4 | 24.6 | 37.0 |






#39
Methylcyclohexane
Concen: 16.801 ug/l
RT: 9.600 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 83 Resp: 52296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 75.0 | 62.6 | 94.0 |
| 98 | 46.5 | 37.7 | 56.5 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

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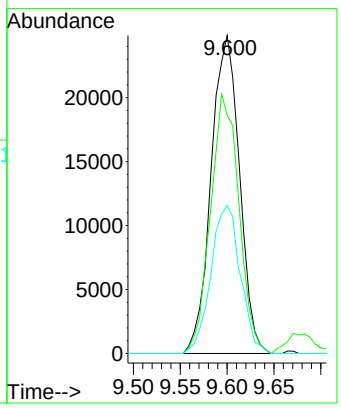
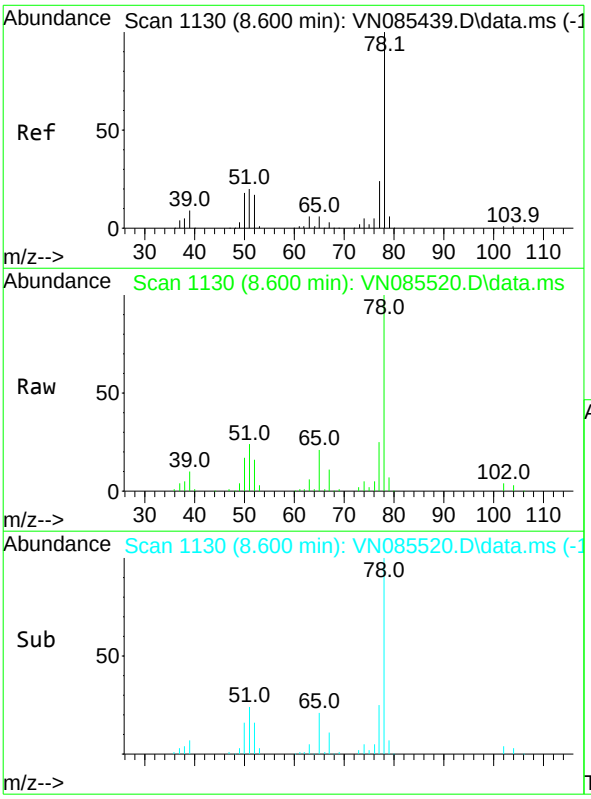
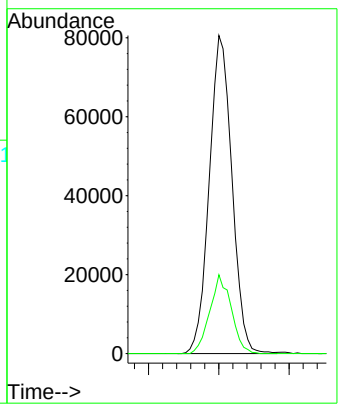


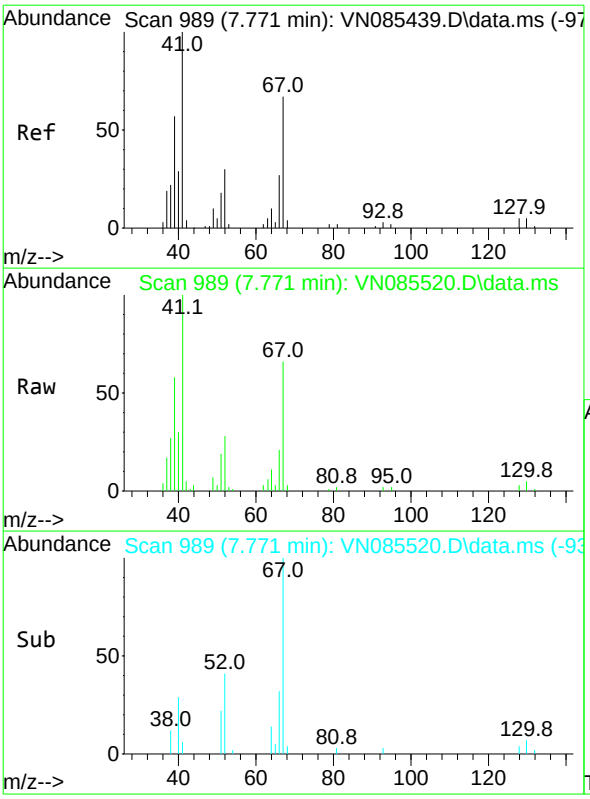




#40
Benzene
Concen: 18.157 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 78 Resp: 180711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.8 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 19.371 ug/l
RT: 7.771 min Scan# 98
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

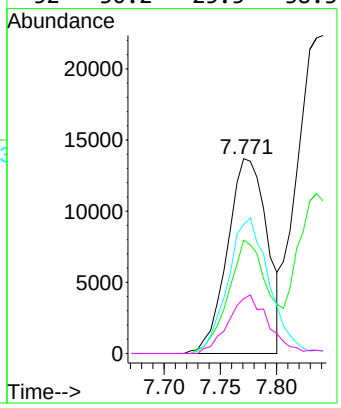
Tgt Ion: 41 Resp: 33694

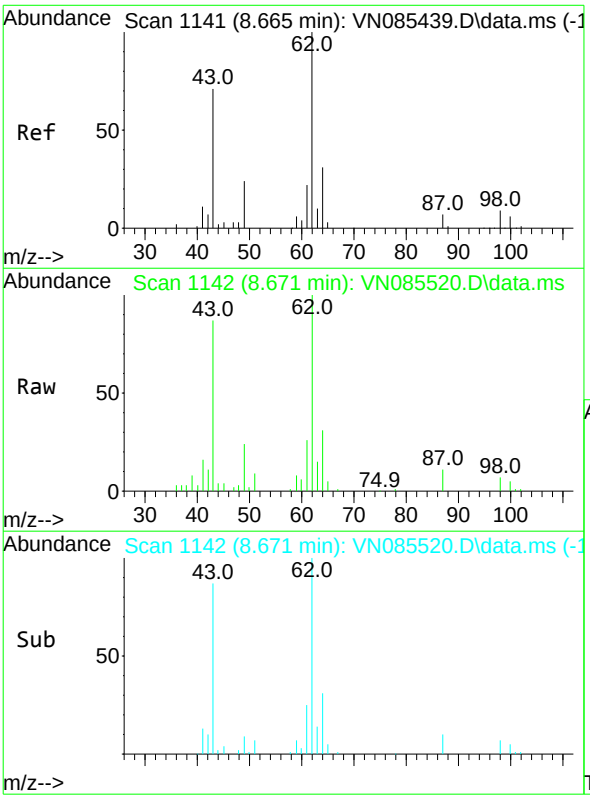
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 59.3 | 46.0 | 69.0 |
| 67 | 72.0 | 57.4 | 86.2 |
| 52 | 30.2 | 25.5 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

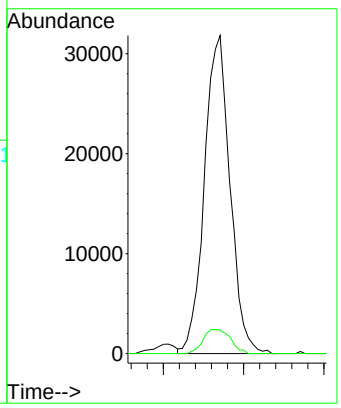


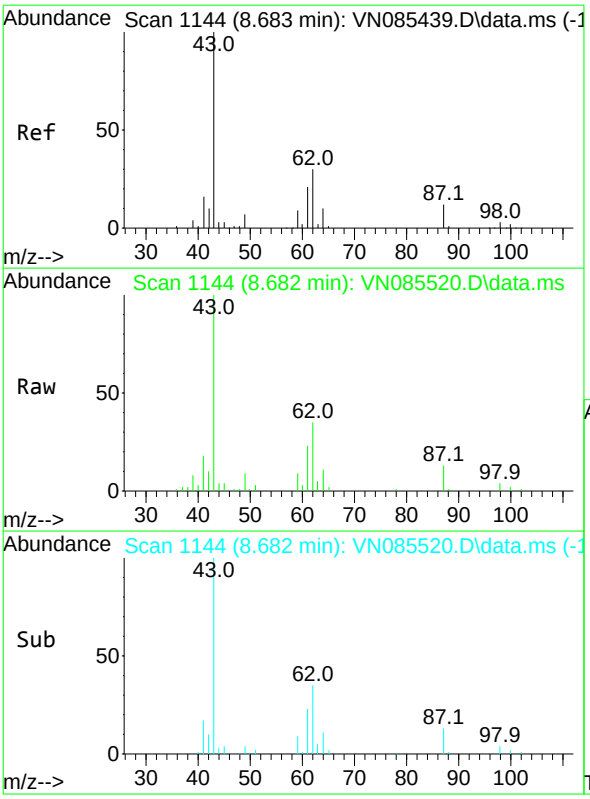




#42
1,2-Dichloroethane
Concen: 18.807 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 62 Resp: 70495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.1 | 0.0 | 17.0 |






#43
Isopropyl Acetate
Concen: 19.333 ug/l
RT: 8.682 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

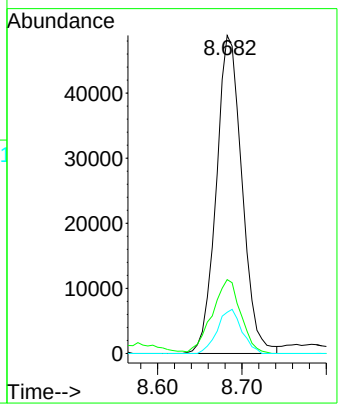
Tgt Ion: 43 Resp: 103570

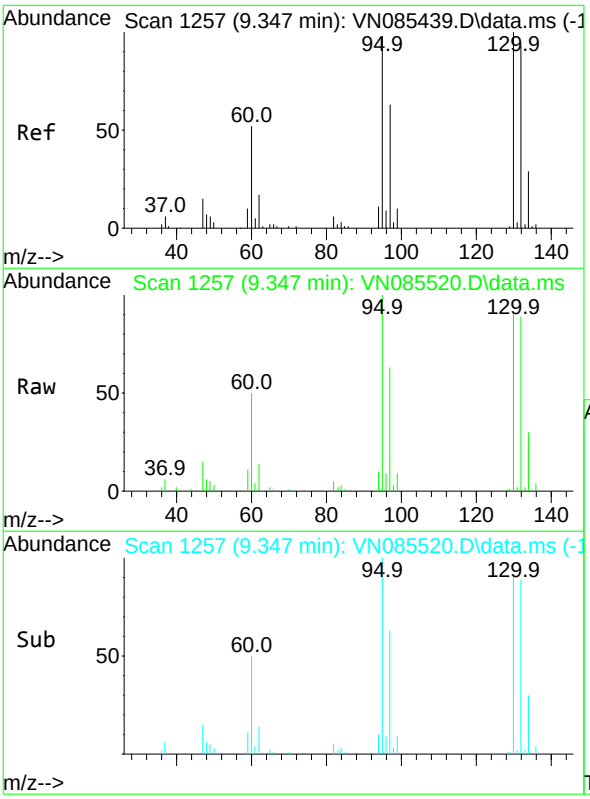
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 25.9 | 20.7 | 31.1 |
| 87 | 13.1 | 9.8 | 14.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

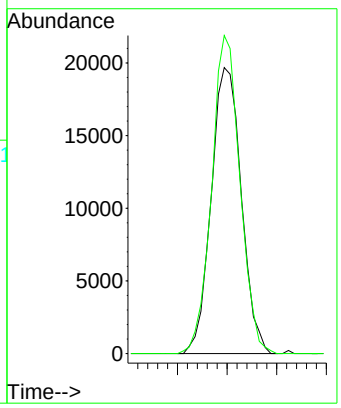


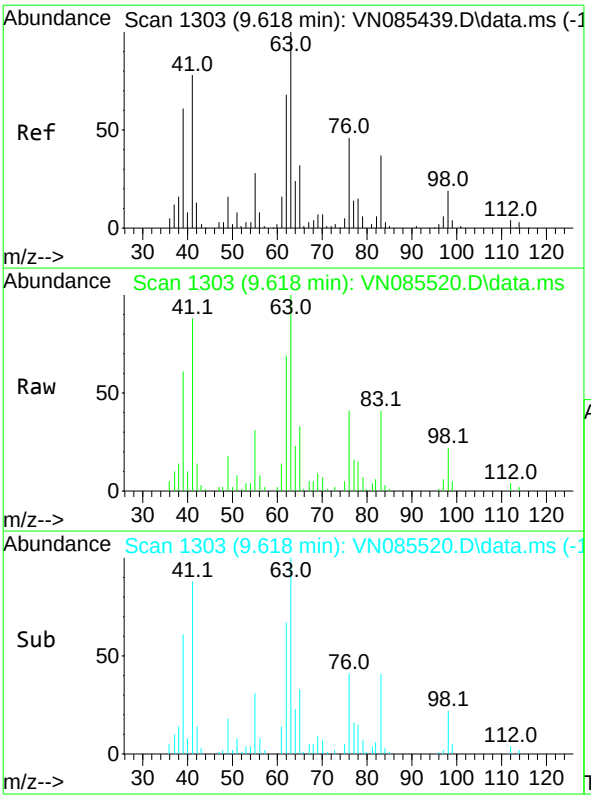




#44
Trichloroethene
Concen: 17.908 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:130 Resp: 41488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 111.2 | 0.0 | 195.8 |






#45
1,2-Dichloropropane
Concen: 18.074 ug/l
RT: 9.618 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

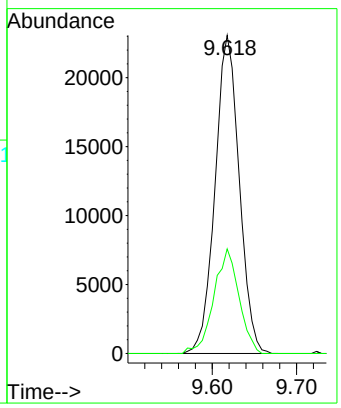
Tgt Ion: 63 Resp: 45946

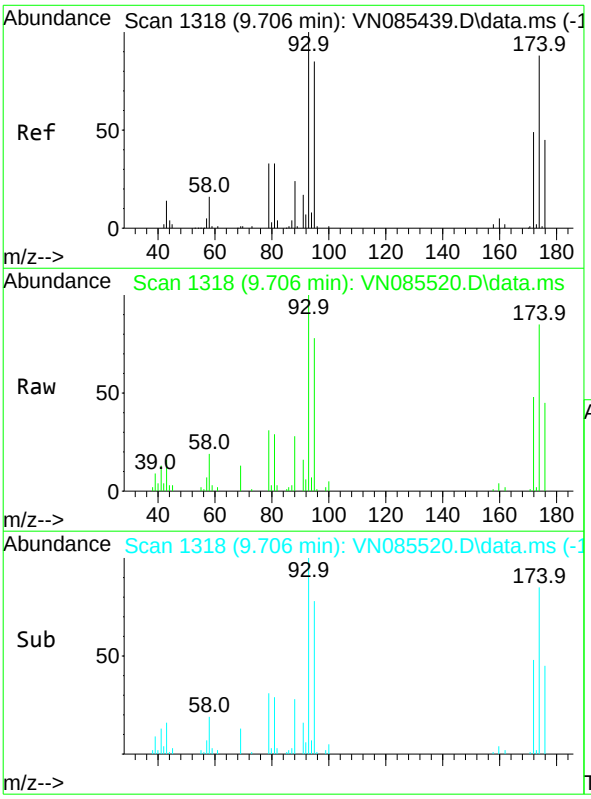
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.9 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

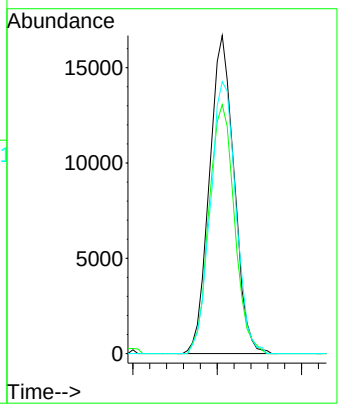


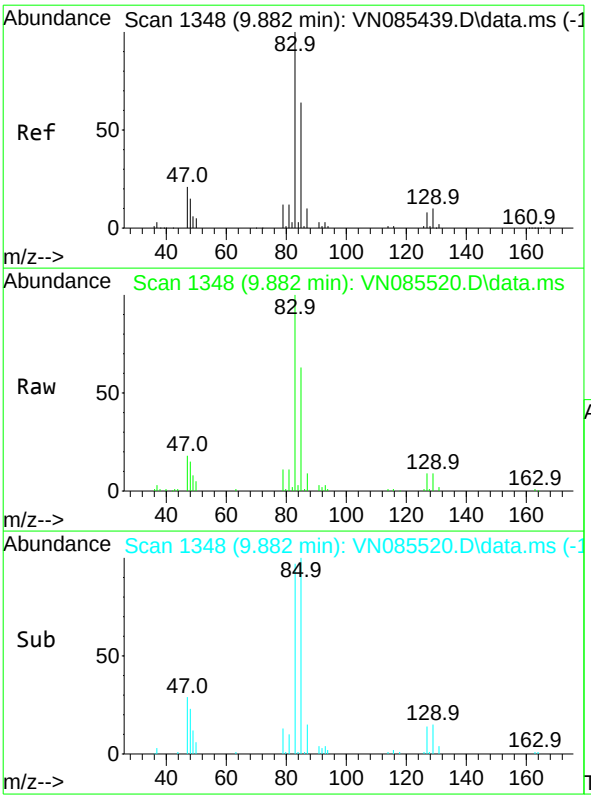




#46
Dibromomethane
Concen: 18.515 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 93 Resp: 33962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.5 | 64.7 | 97.1 |
| 174 | 88.2 | 69.0 | 103.4 |






#47
Bromodichloromethane
Concen: 19.172 ug/l
RT: 9.882 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

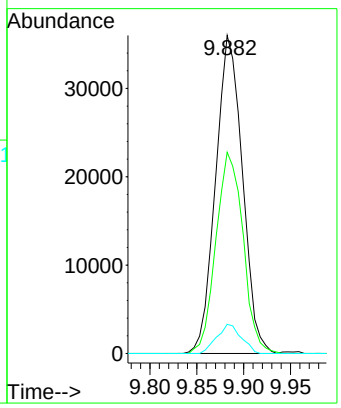
Tgt Ion: 83 Resp: 71647

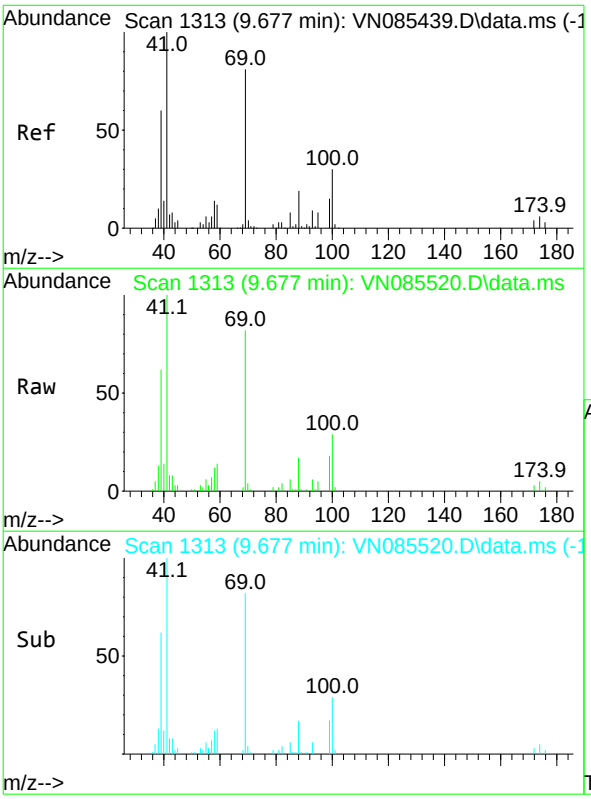
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 51.2 | 76.8 |
| 127 | 9.2 | 6.5 | 9.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

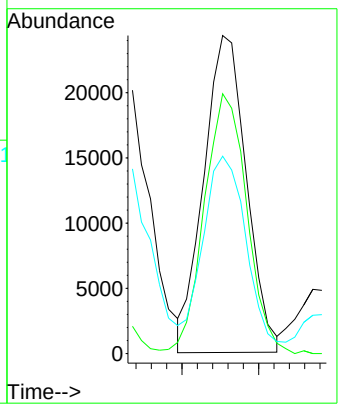


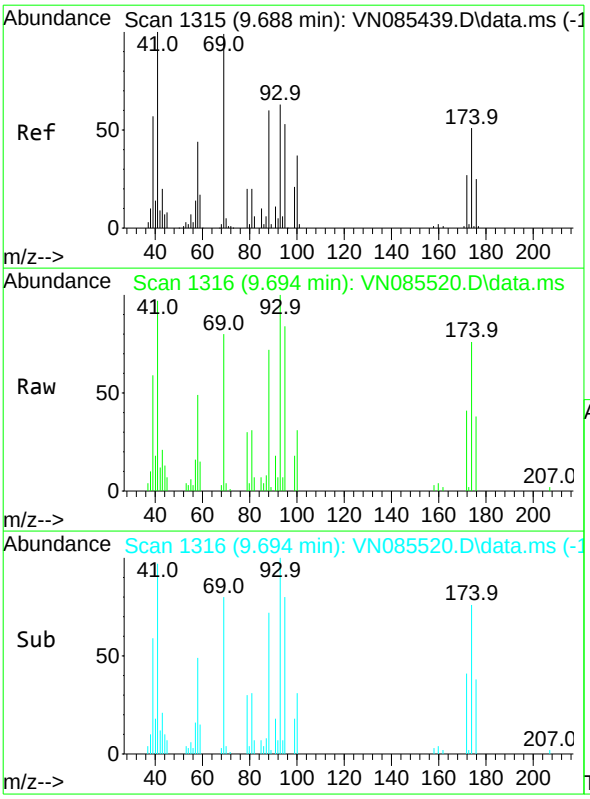




#48
Methyl methacrylate
Concen: 19.457 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 41 Resp: 46908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 82.0 | 64.7 | 97.1 |
| 39 | 64.8 | 49.0 | 73.6 |






#49
1,4-Dioxane
Concen: 420.559 ug/l
RT: 9.694 min Scan# 13
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 88 Resp: 17074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 24.9 | 26.6 | 39.8# |
| 58 | 71.3 | 59.5 | 89.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
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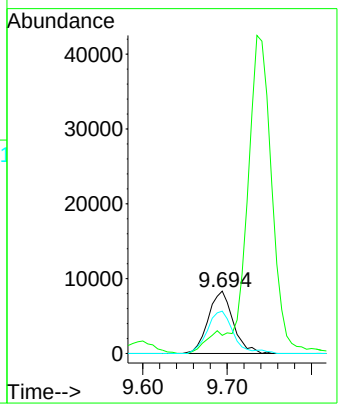
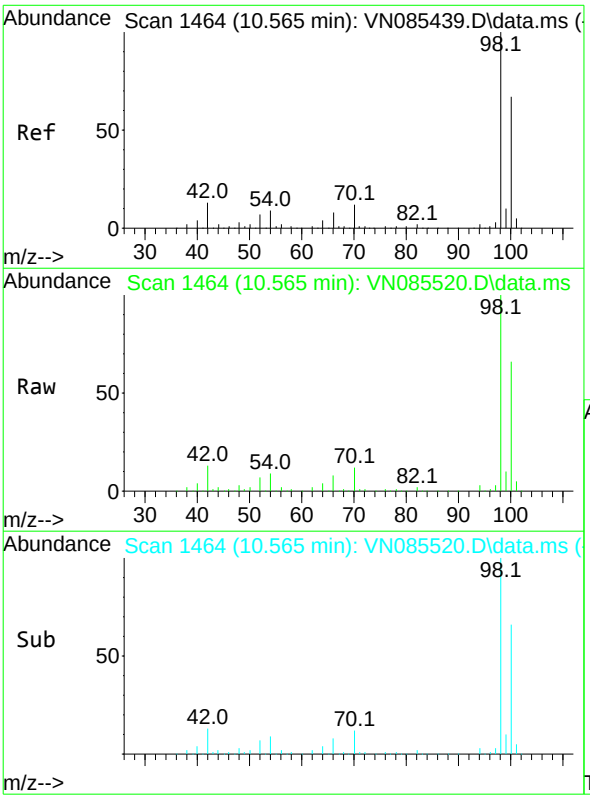
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

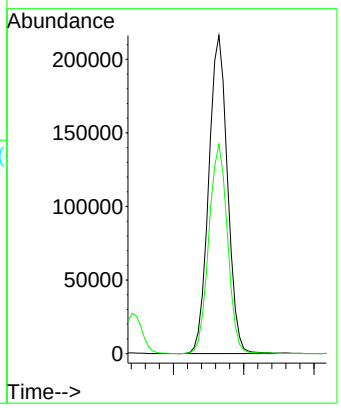


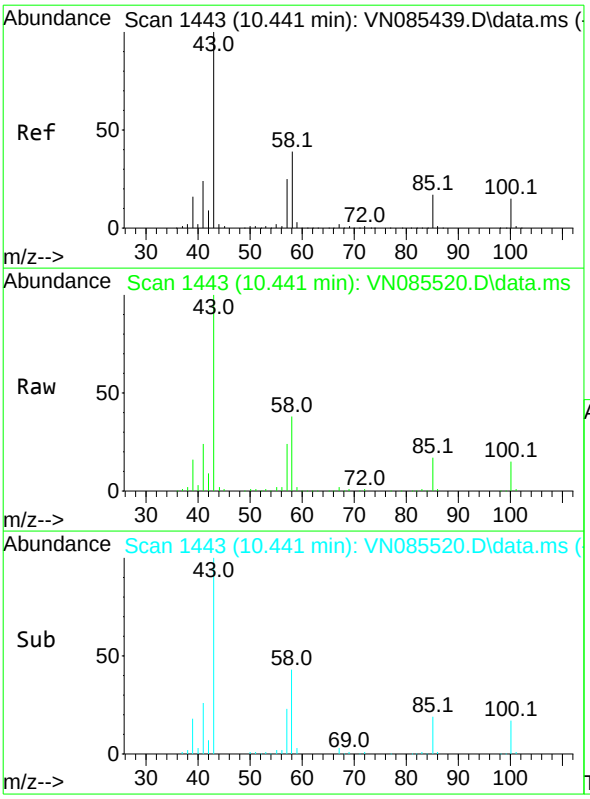




#50
Toluene-d8
Concen: 47.828 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 98 Resp: 401058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 52.2 | 78.4 |






#51
4-Methyl-2-Pentanone
Concen: 103.202 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

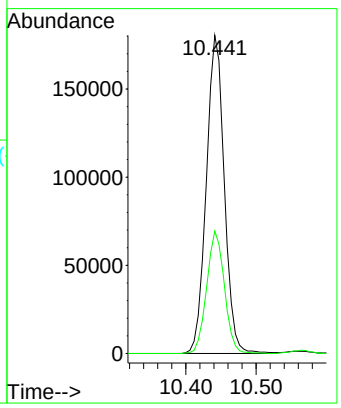
Tgt Ion: 43 Resp: 320825

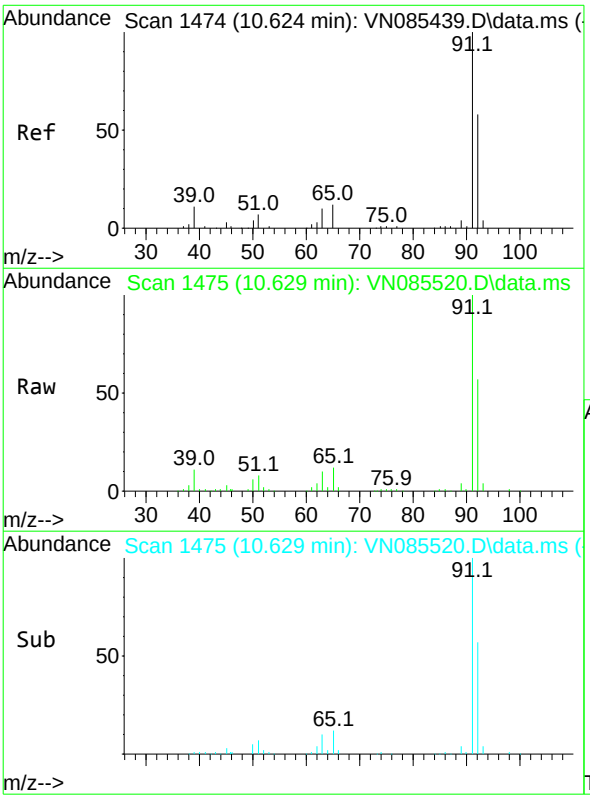
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.9 | 30.5 | 45.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

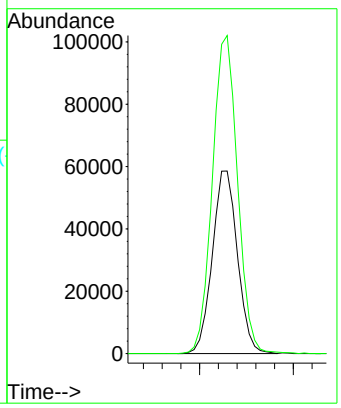


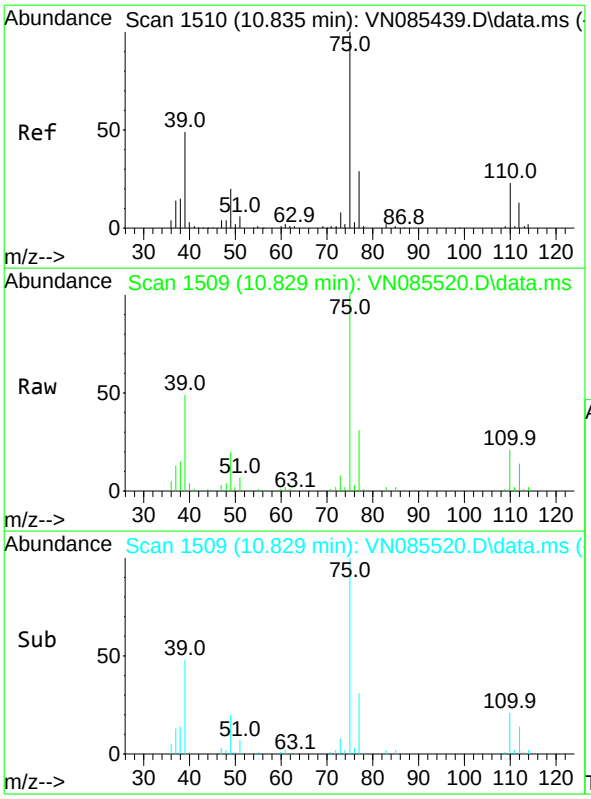




#52
Toluene
Concen: 18.925 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 92 Resp: 109132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.3 | 139.2 | 208.8 |






#53
t-1,3-Dichloropropene
Concen: 19.518 ug/l
RT: 10.829 min Scan# 15
Delta R.T. -0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

Tgt Ion: 75 Resp: 68929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.8 | 23.5 | 35.3 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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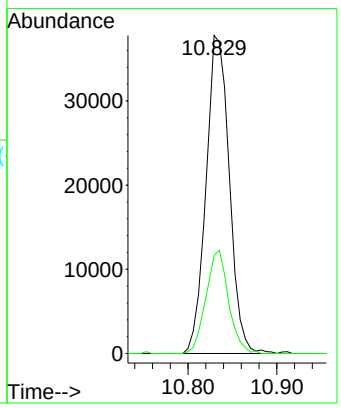
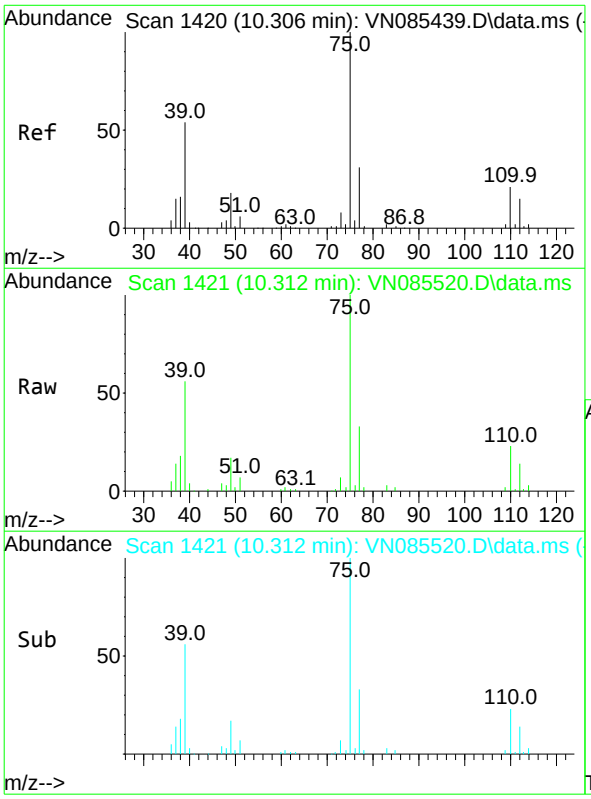
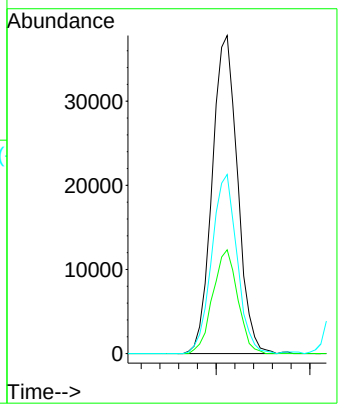


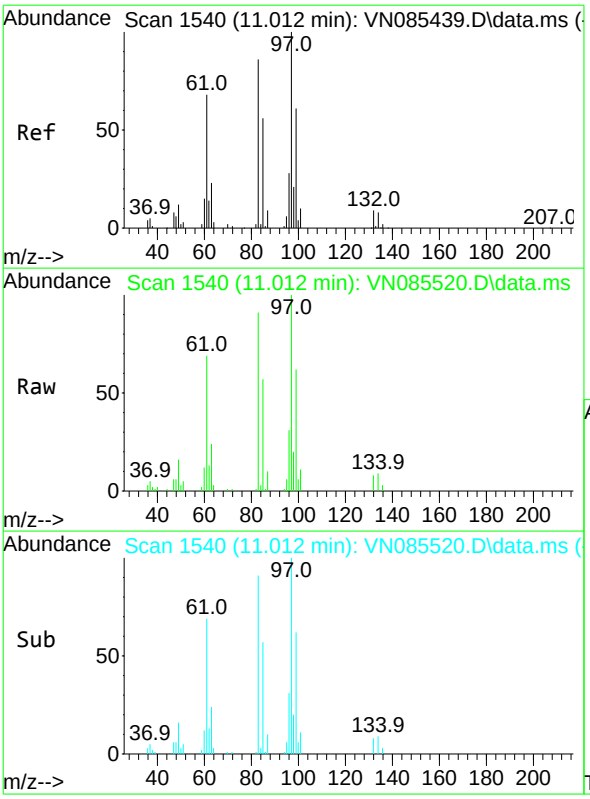




#54
cis-1,3-Dichloropropene
Concen: 18.857 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 75 Resp: 71135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.6 | 25.0 | 37.4 |
| 39 | 56.3 | 43.1 | 64.7 |






#55
1,1,2-Trichloroethane
Concen: 19.386 ug/l
RT: 11.012 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

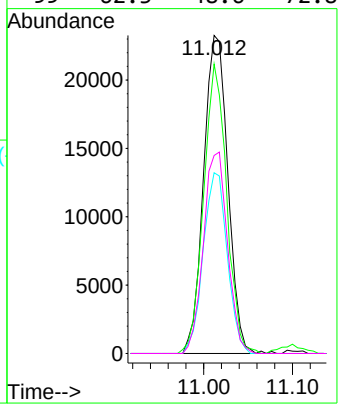
Tgt Ion: 97 Resp: 44242

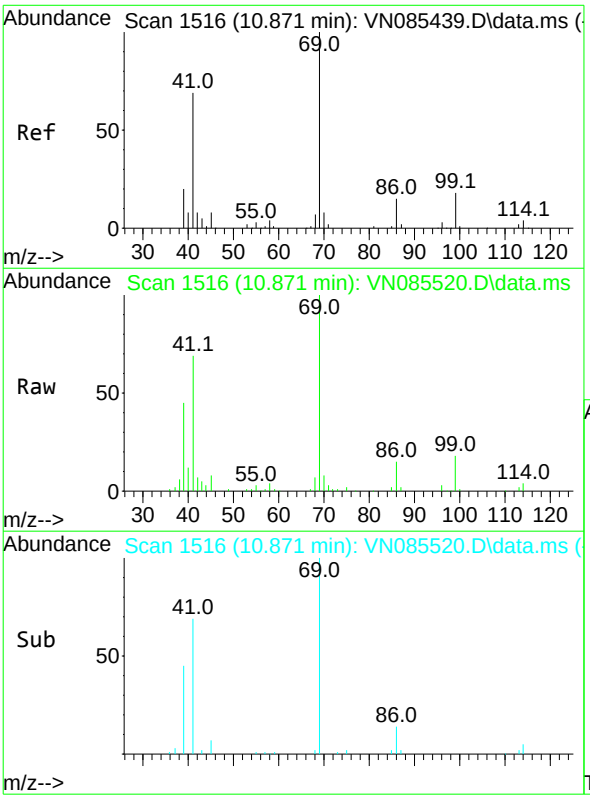
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 91.0 | 69.0 | 103.6 |
| 85 | 56.8 | 44.6 | 66.8 |
| 99 | 62.3 | 48.6 | 72.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

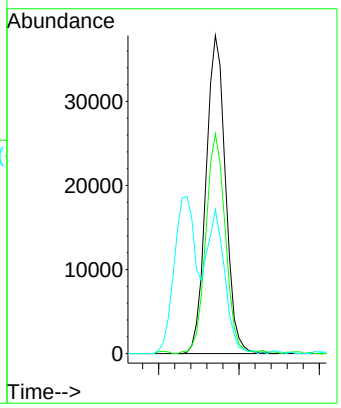


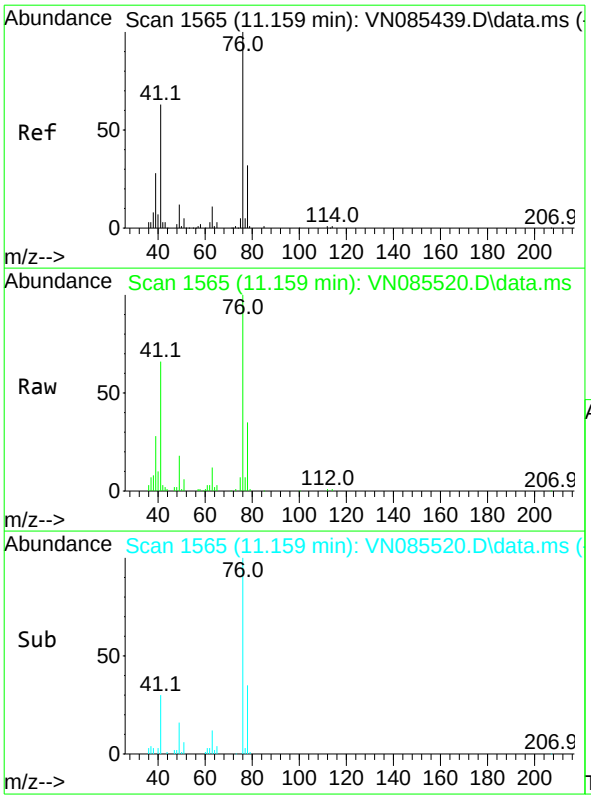




#56
Ethyl methacrylate
Concen: 17.842 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 69 Resp: 63624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 69.3 | 54.6 | 82.0 |
| 39 | 41.8 | 32.4 | 48.6 |






#57
1,3-Dichloropropane
Concen: 18.805 ug/l
RT: 11.159 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

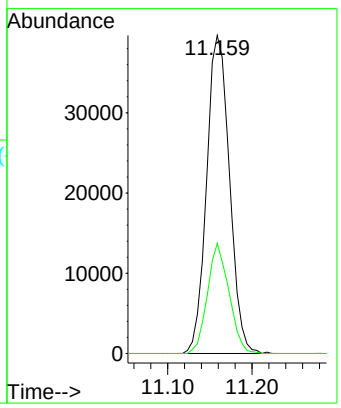
Tgt Ion: 76 Resp: 74624

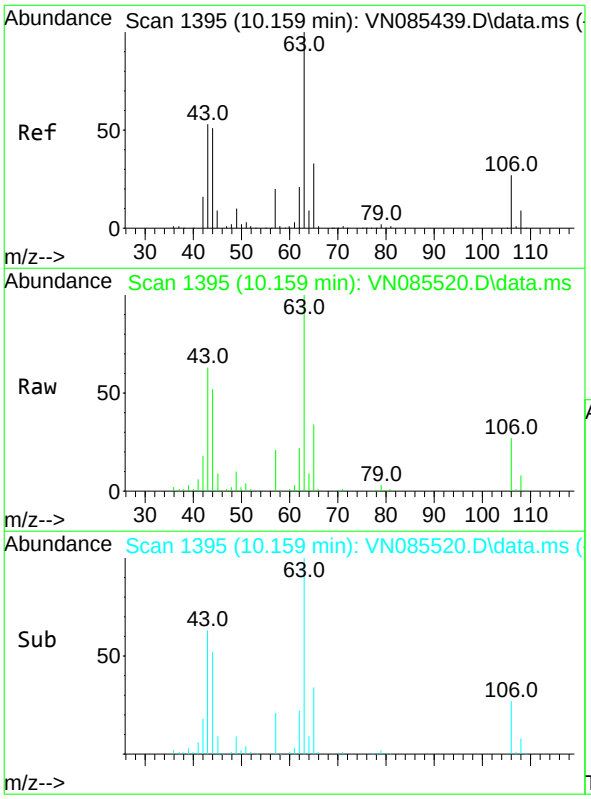
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.6 | 25.6 | 38.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

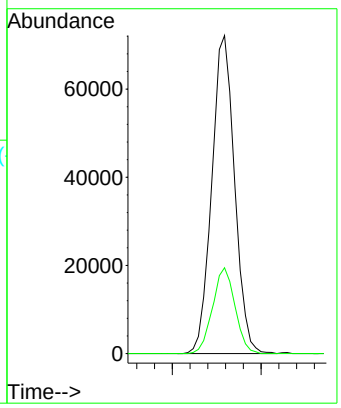


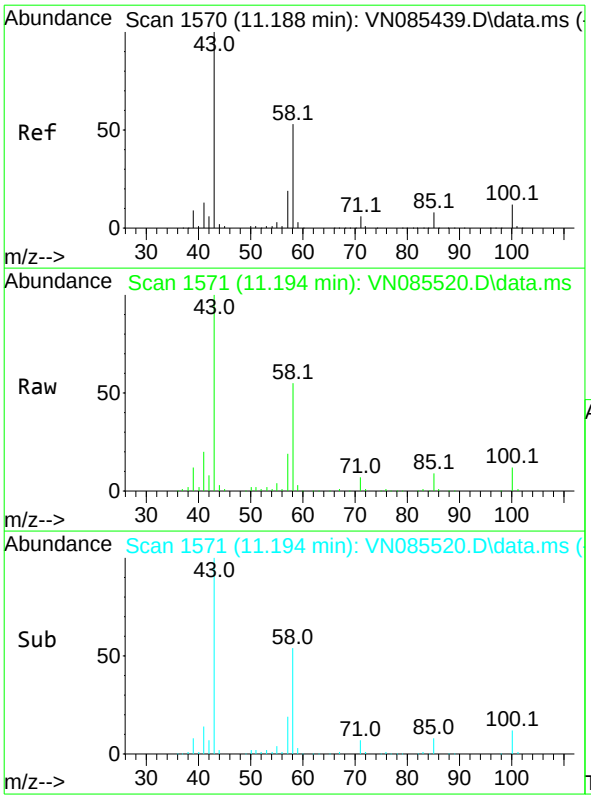




#58
2-Chloroethyl Vinyl ether
Concen: 88.832 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 63 Resp: 128650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.5 | 21.6 | 32.4 |






#59
2-Hexanone
Concen: 104.275 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

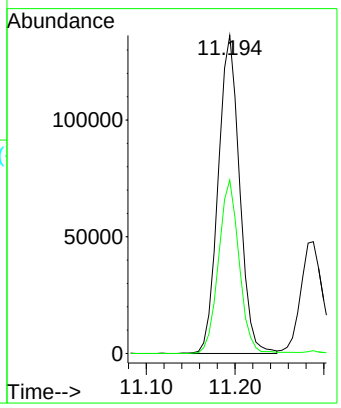
Tgt Ion: 43 Resp: 228088

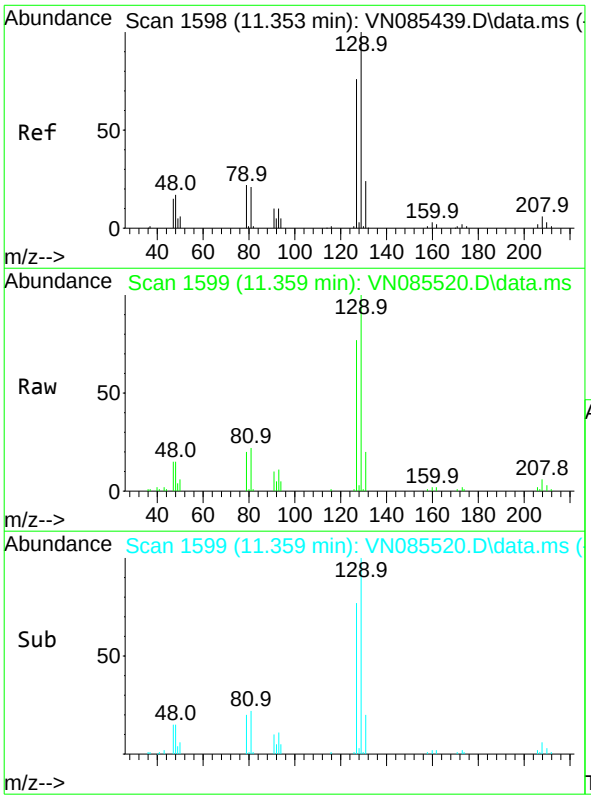
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 52.6 | 26.2 | 78.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

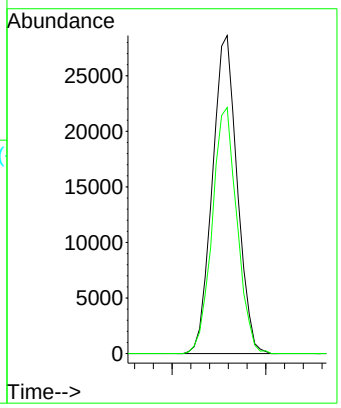


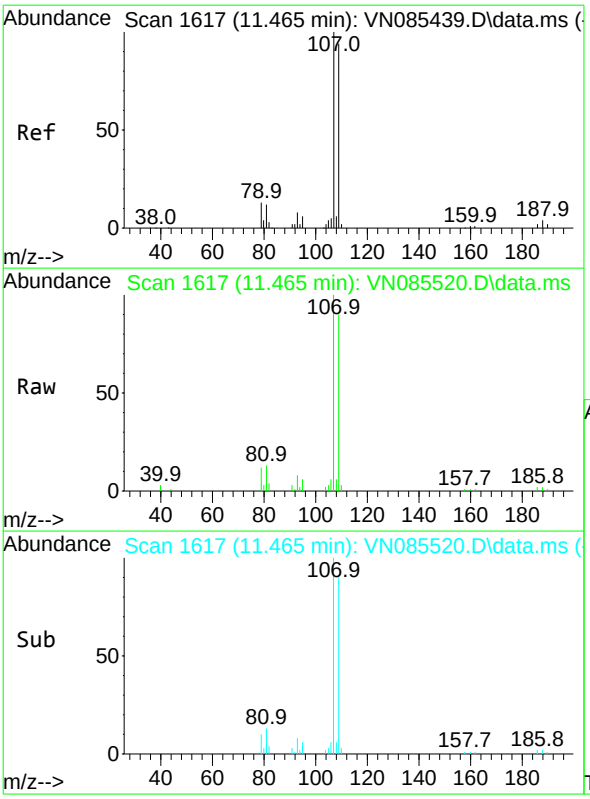




#60
Dibromochloromethane
Concen: 19.102 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:129 Resp: 52631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.0 | 38.6 | 115.8 |






#61
1,2-Dibromoethane
Concen: 19.096 ug/l
RT: 11.465 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

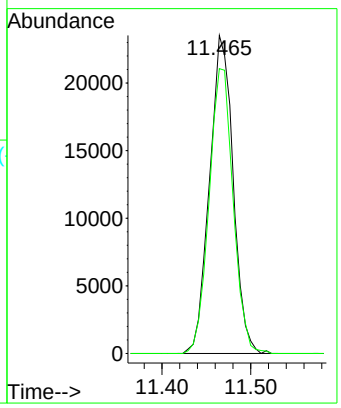
Tgt Ion:107 Resp: 43380

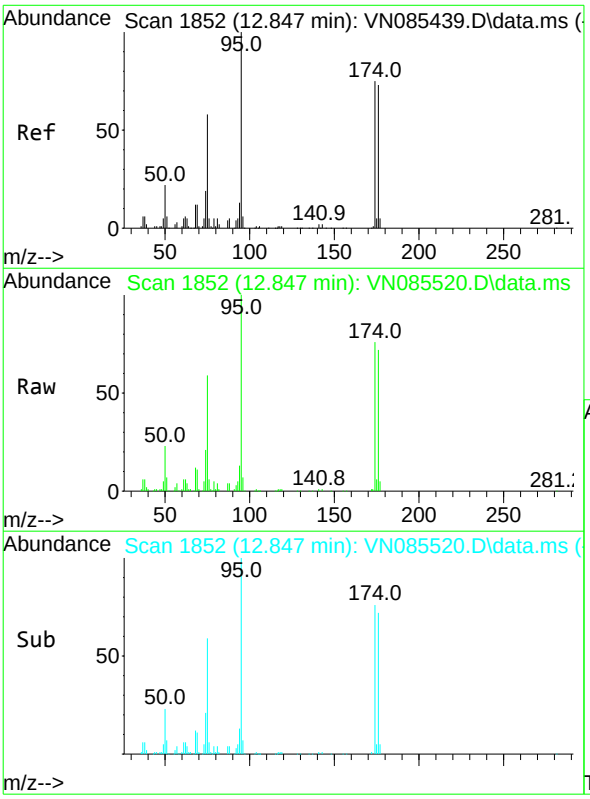
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.3 | 75.9 | 113.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

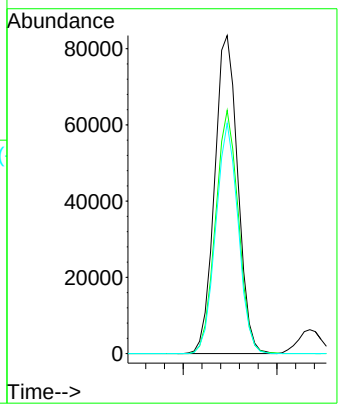


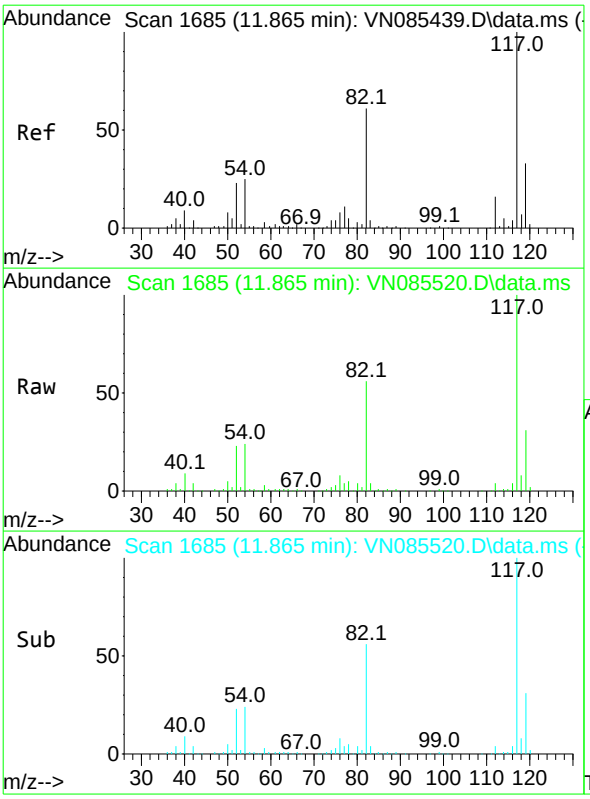




#62
4-Bromofluorobenzene
Concen: 50.029 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 95 Resp: 143504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.4 | 0.0 | 145.0 |
| 176 | 69.9 | 0.0 | 142.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:117 Resp: 297834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.2 | 48.6 | 72.8 |
| 119 | 31.3 | 26.6 | 39.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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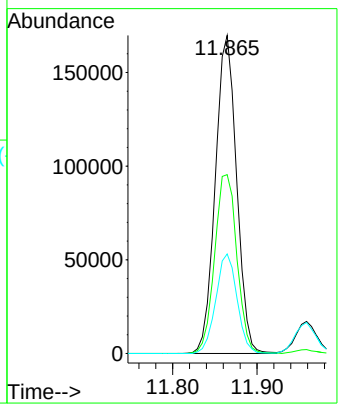
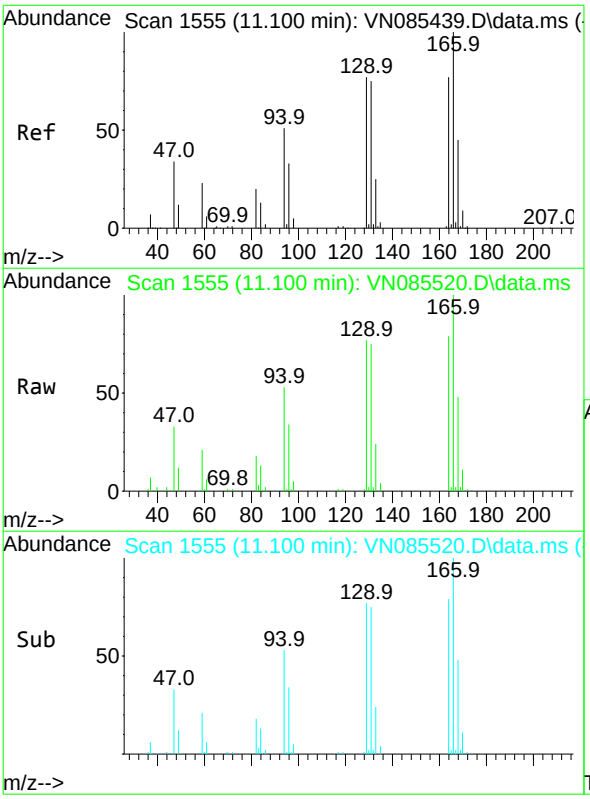
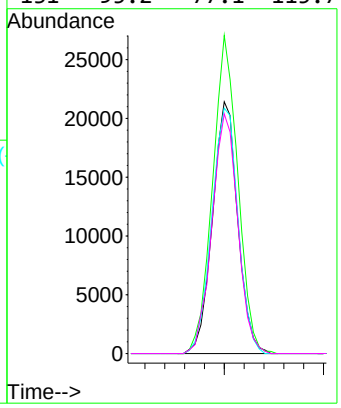


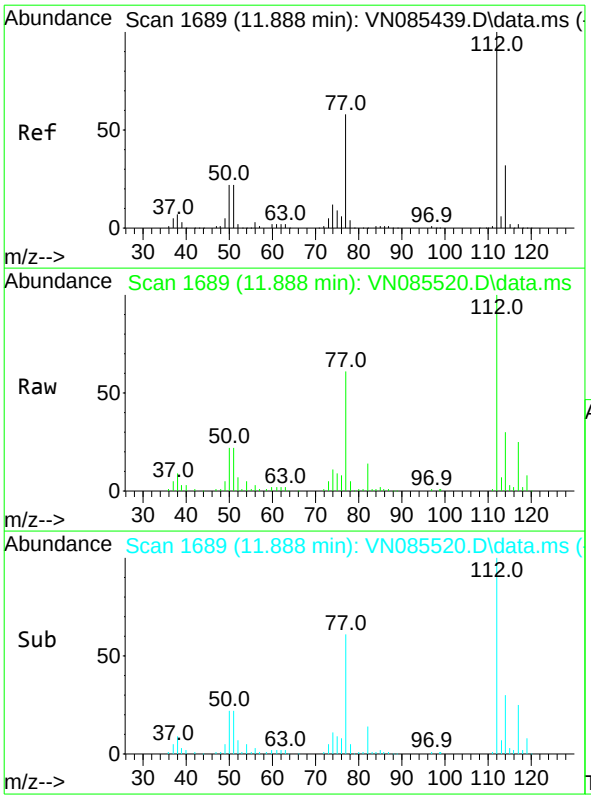




#64
Tetrachloroethene
Concen: 18.573 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:164 Resp: 37711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.3 | 103.4 | 155.2 |
| 129 | 97.5 | 79.2 | 118.8 |
| 131 | 95.2 | 77.1 | 115.7 |






#65
Chlorobenzene
Concen: 18.399 ug/l
RT: 11.888 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

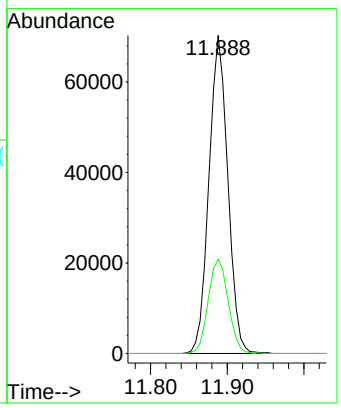
Tgt Ion:112 Resp: 120046

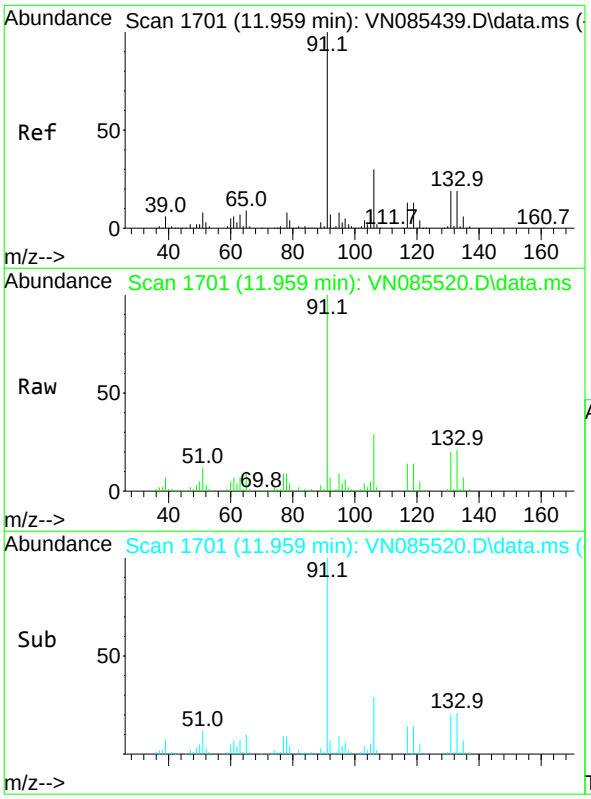
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 29.6 | 25.3 | 37.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

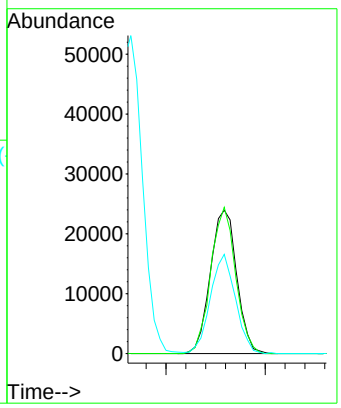


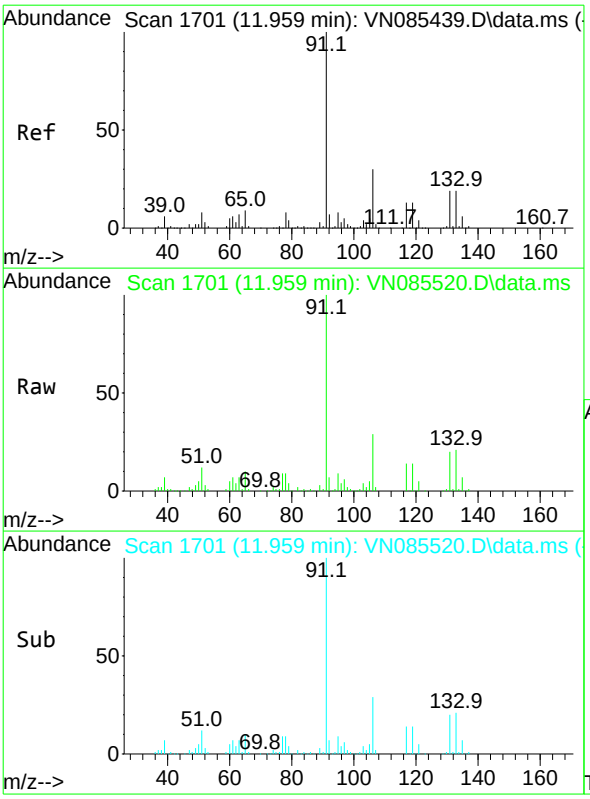




#66
1,1,1,2-Tetrachloroethane
Concen: 18.469 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:131 Resp: 44226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.1 | 47.4 | 142.3 |
| 119 | 65.9 | 33.1 | 99.5 |






#67
Ethyl Benzene
Concen: 18.589 ug/l
RT: 11.959 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

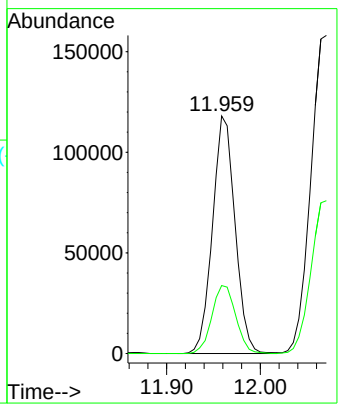
Tgt Ion: 91 Resp: 197539

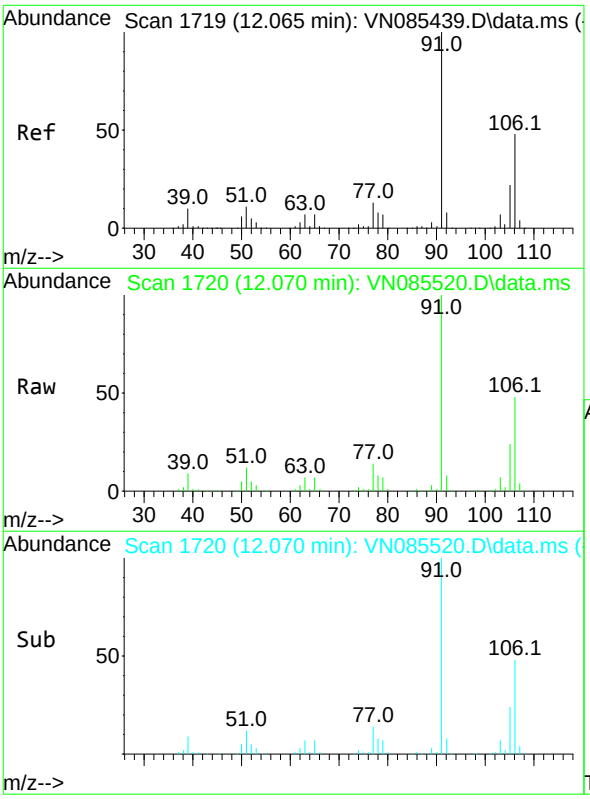
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.6 | 23.8 | 35.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

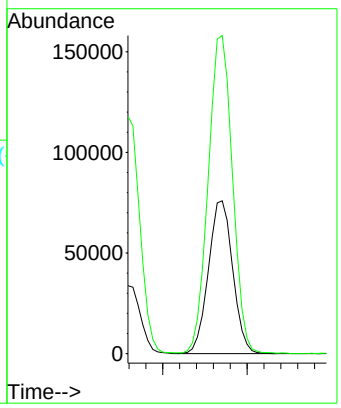


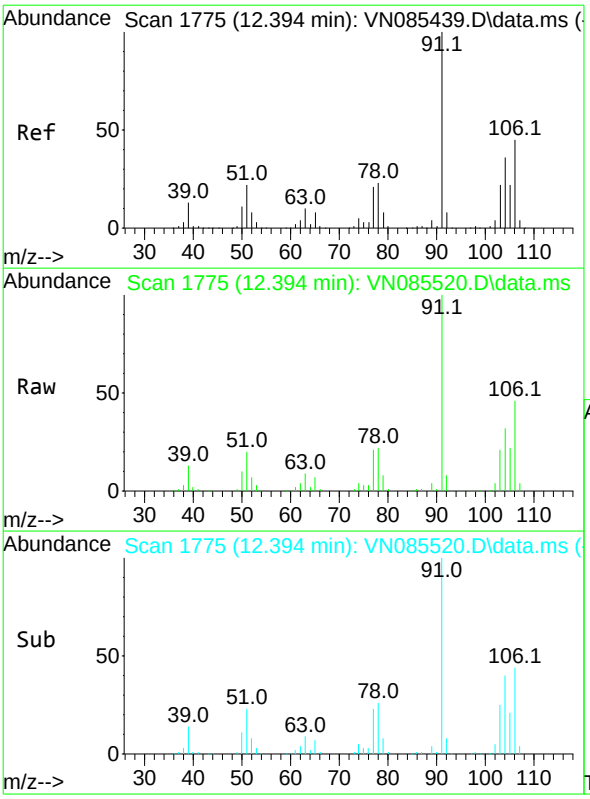




#68
m/p-Xylenes
Concen: 38.711 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:106 Resp: 152037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.4 | 167.7 | 251.5 |






#69
o-Xylene
Concen: 18.956 ug/l
RT: 12.394 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

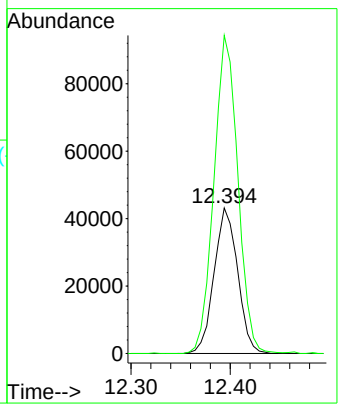
Tgt Ion:106 Resp: 71148

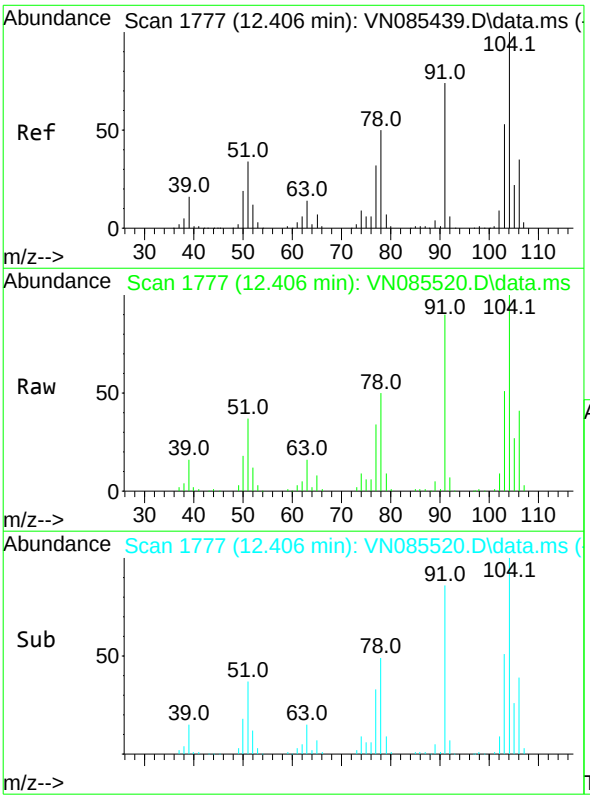
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 222.2 | 110.4 | 331.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

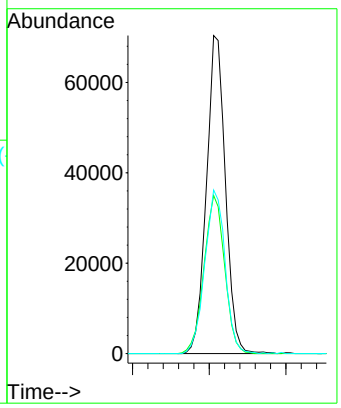


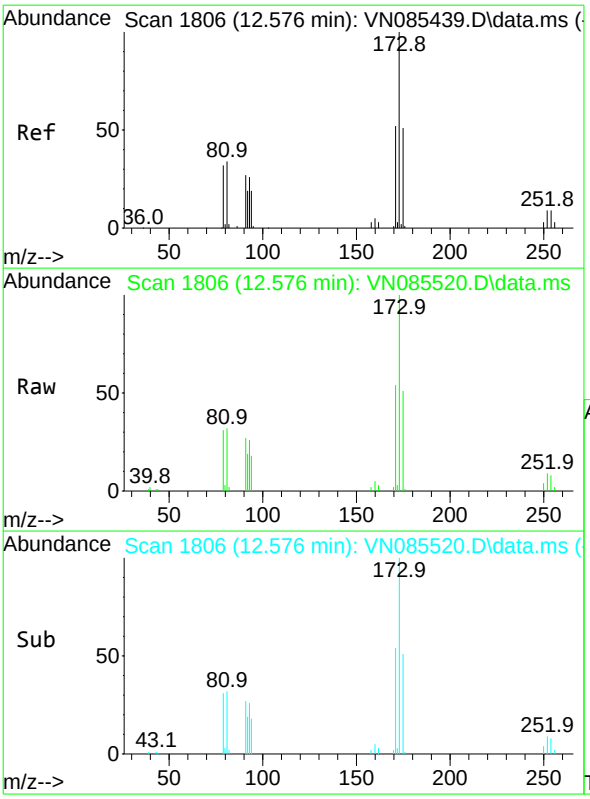




#70
Styrene
Concen: 19.481 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:104 Resp: 121008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 54.0 | 42.5 | 63.7 |
| 103 | 55.0 | 43.8 | 65.8 |






#71
Bromoform
Concen: 20.155 ug/l
RT: 12.576 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:173 Resp: 34534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.3 | 24.4 | 73.2 |
| 254 | 0.0 | 0.0 | 0.0 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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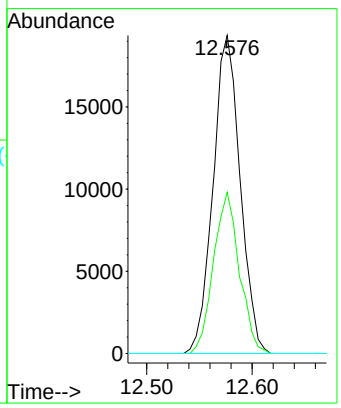
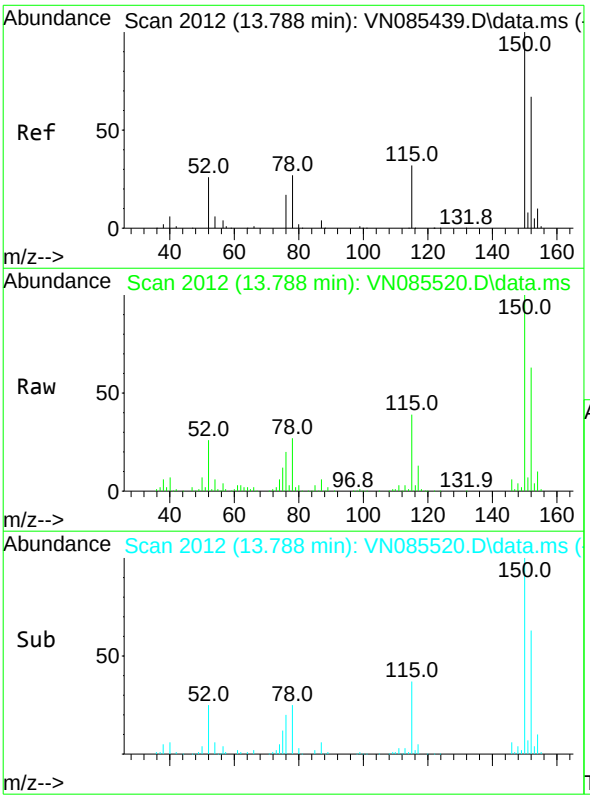
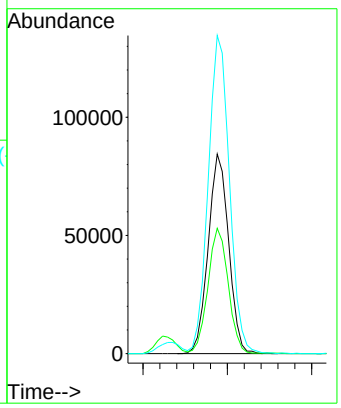


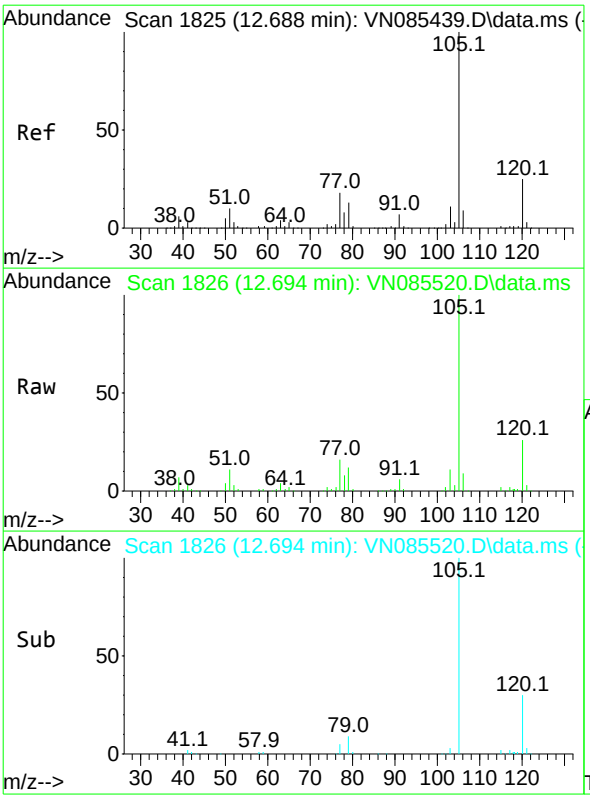




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:152 Resp: 142141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.0 | 31.1 | 93.3 |
| 150 | 165.3 | 0.0 | 343.6 |






#73
Isopropylbenzene
Concen: 19.042 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:105 Resp: 182673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.5 | 12.8 | 38.3 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

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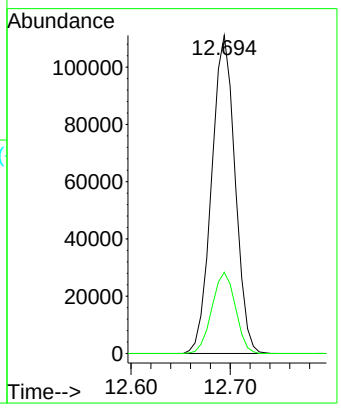
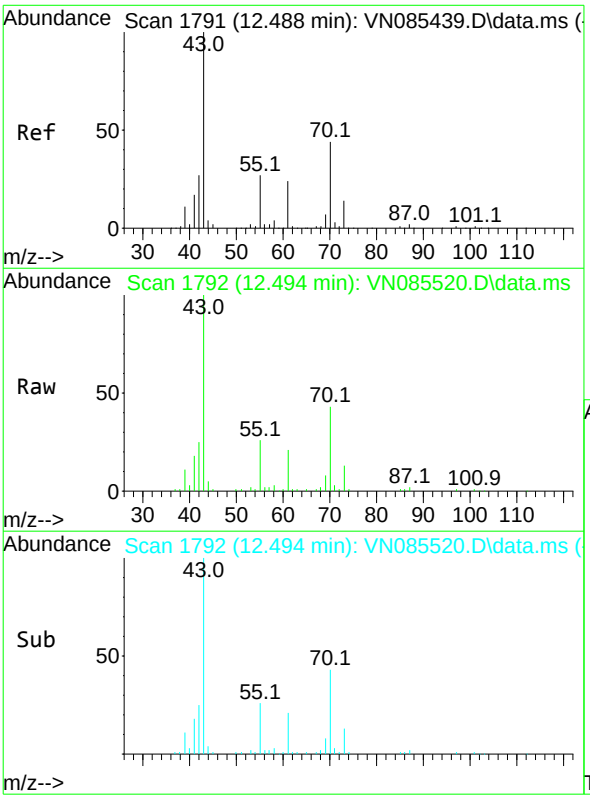
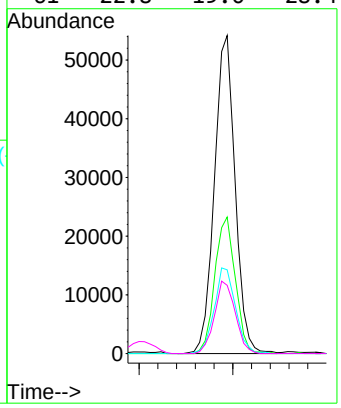


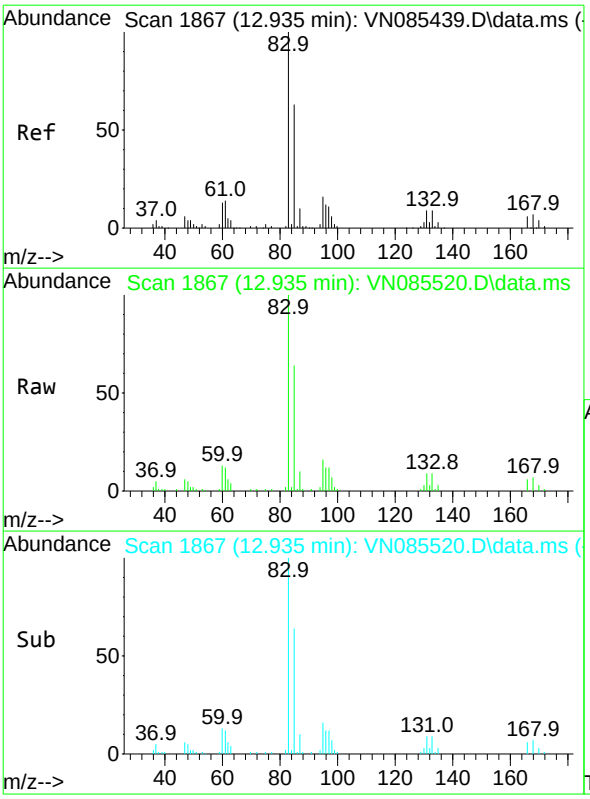




#74
N-amyl acetate
Concen: 19.312 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 43 Resp: 83274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.5 | 34.0 | 51.0 |
| 55 | 27.8 | 21.4 | 32.2 |
| 61 | 22.8 | 19.0 | 28.4 |






#75
1,1,2,2-Tetrachloroethane
Concen: 19.215 ug/l
RT: 12.935 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 83 Resp: 65114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.2 | 4.8 | 14.4 |
| 85 | 63.5 | 32.2 | 96.6 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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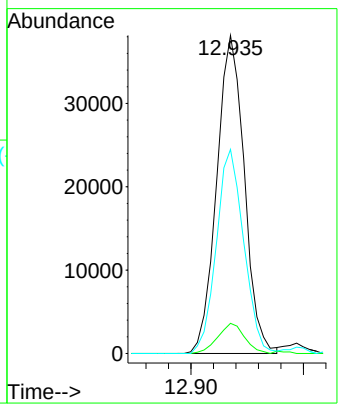
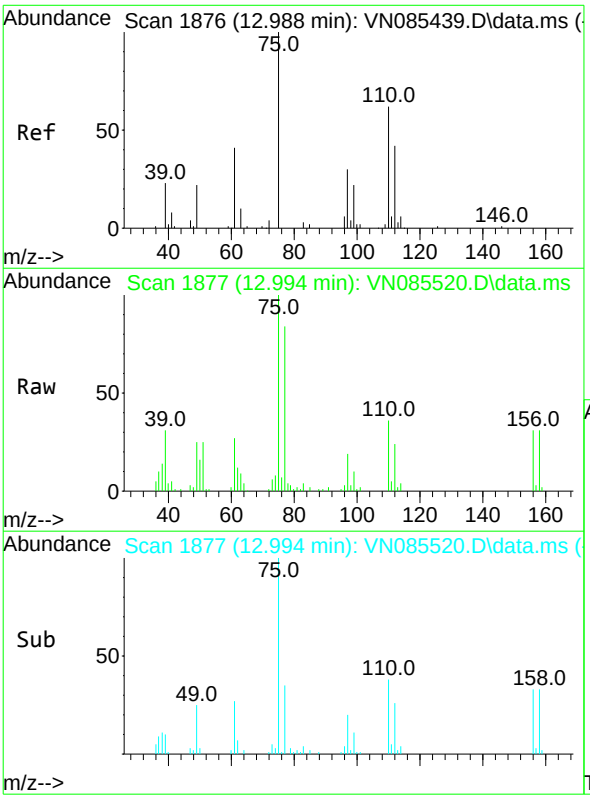
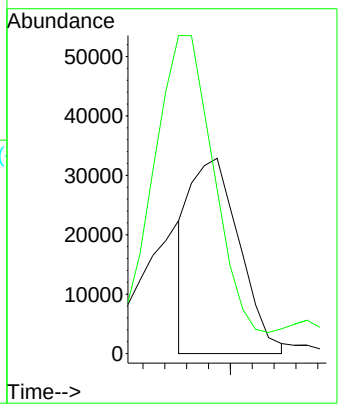


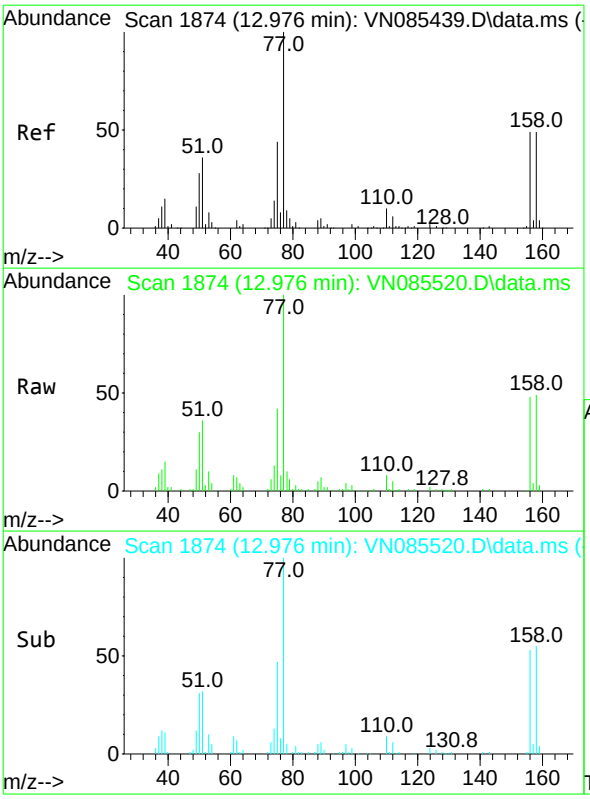




#76
1,2,3-Trichloropropane
Concen: 17.964 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 75 Resp: 51898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 209.9 | 109.7 | 329.2 |






#77
Bromobenzene
Concen: 18.436 ug/l
RT: 12.976 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

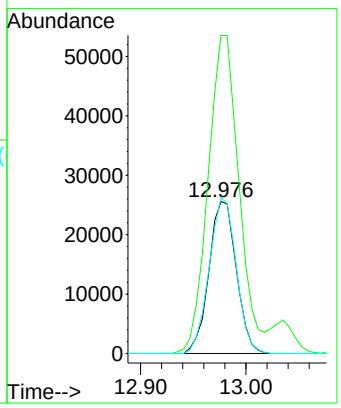
Tgt Ion:156 Resp: 46207

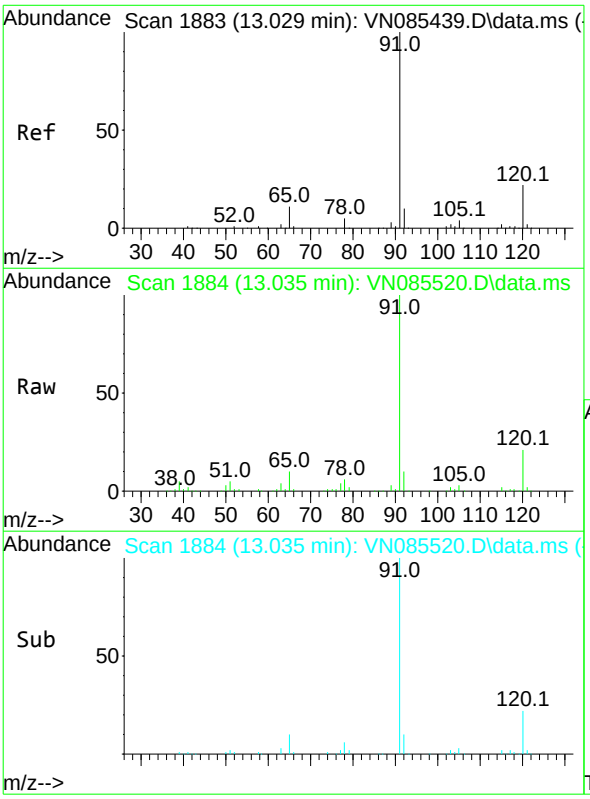
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 235.7 | 114.1 | 342.4 |
| 158 | 101.1 | 48.9 | 146.8 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

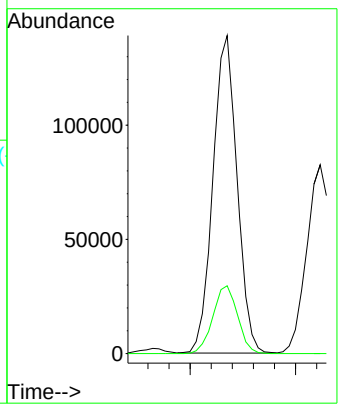


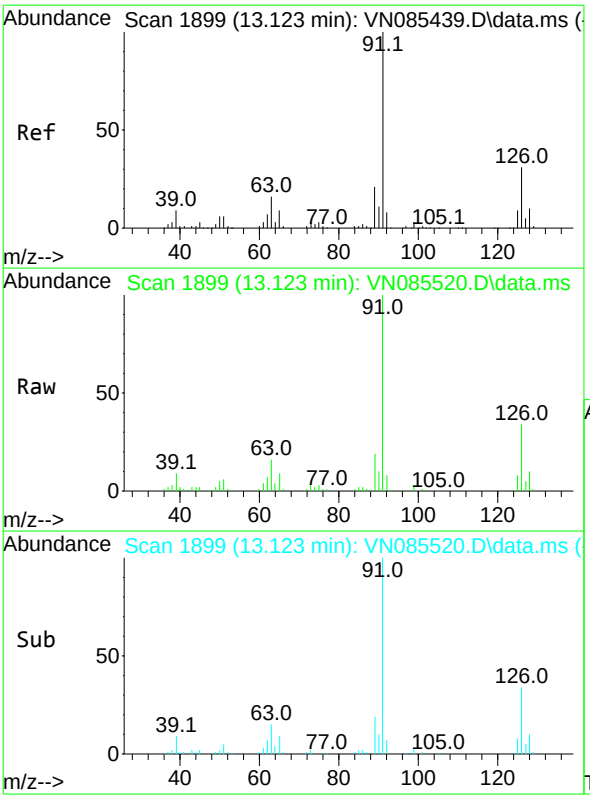




#78
n-propylbenzene
Concen: 19.453 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 91 Resp: 220924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.9 | 10.9 | 32.6 |






#79
2-Chlorotoluene
Concen: 18.957 ug/l
RT: 13.123 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

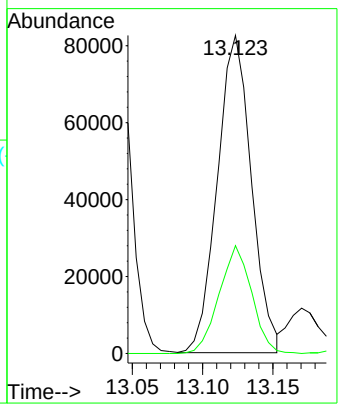
Tgt Ion: 91 Resp: 139334

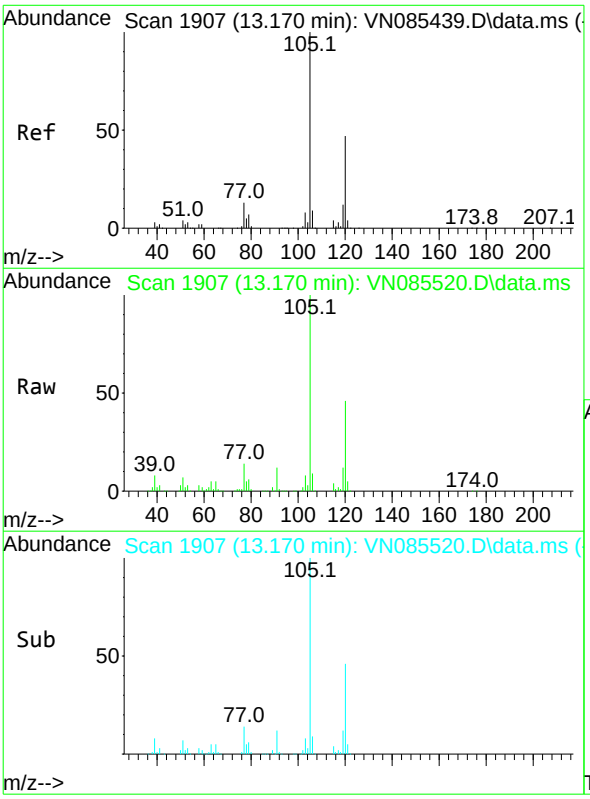
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.4 | 15.7 | 47.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

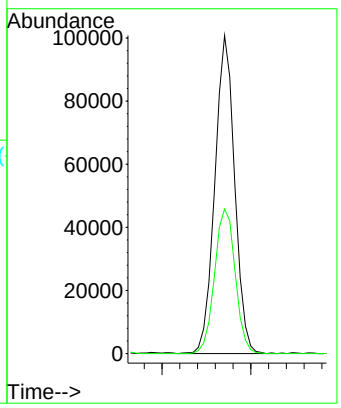


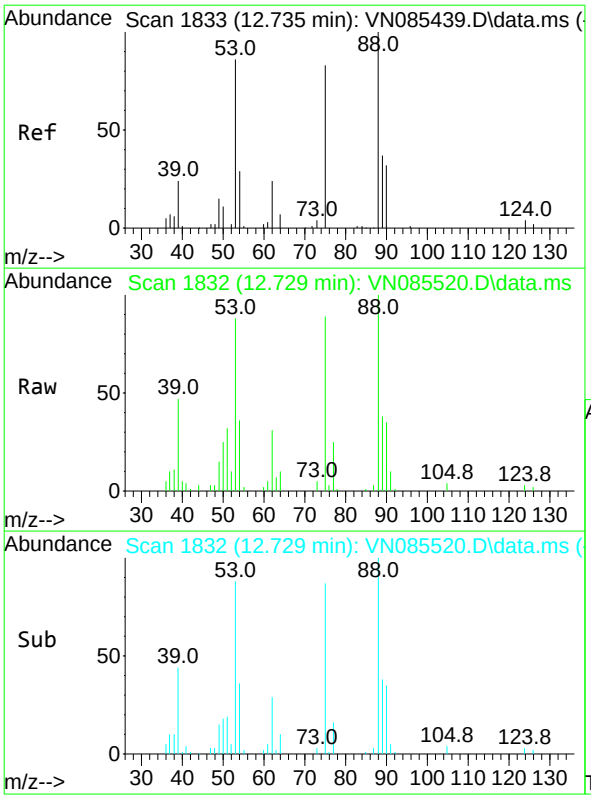




#80
1,3,5-Trimethylbenzene
Concen: 19.727 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:105 Resp: 156321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.4 | 23.9 | 71.7 |






#81
trans-1,4-Dichloro-2-butene
Concen: 20.202 ug/l
RT: 12.729 min Scan# 18
Delta R.T. -0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

Tgt Ion: 75 Resp: 21572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 117.2 | 95.6 | 143.4 |
| 89 | 45.2 | 37.0 | 55.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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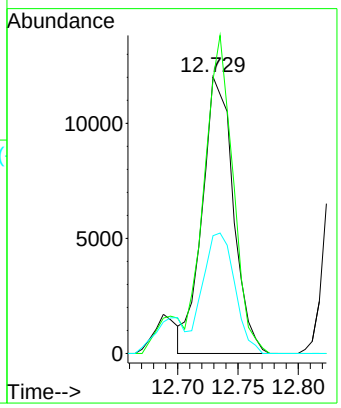
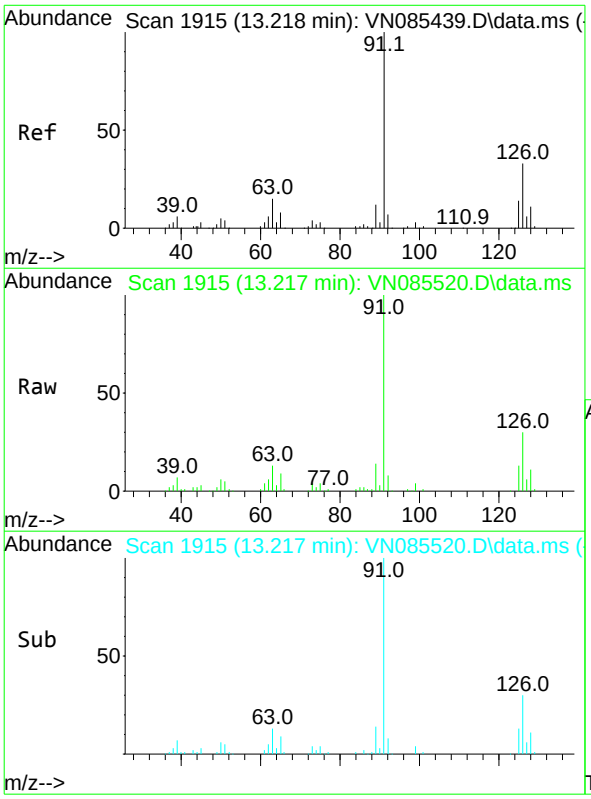
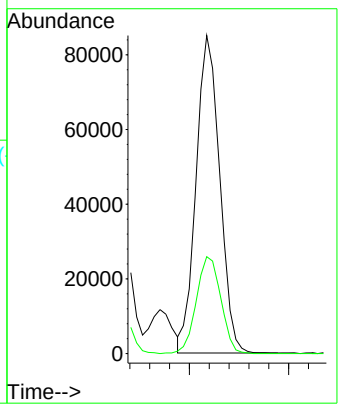


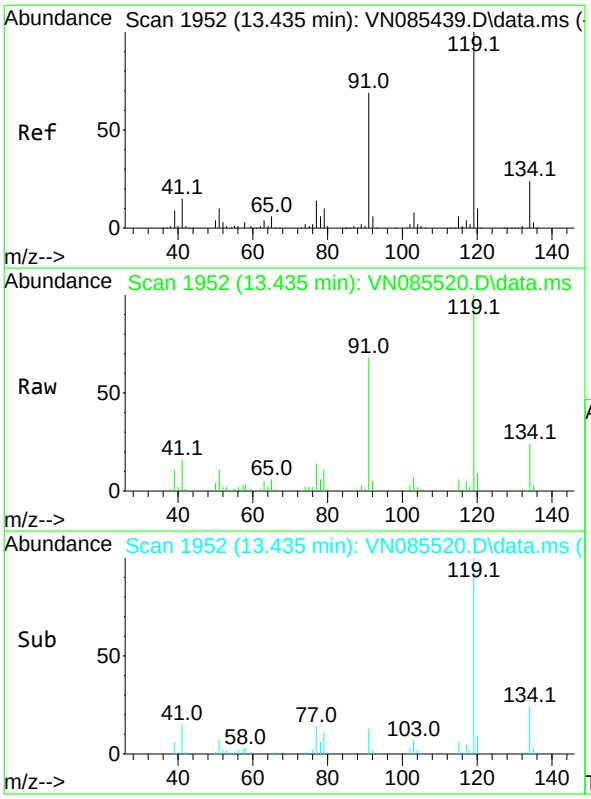




#82
4-Chlorotoluene
Concen: 19.203 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 91 Resp: 140536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.7 | 15.9 | 47.7 |






#83
tert-Butylbenzene
Concen: 19.139 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

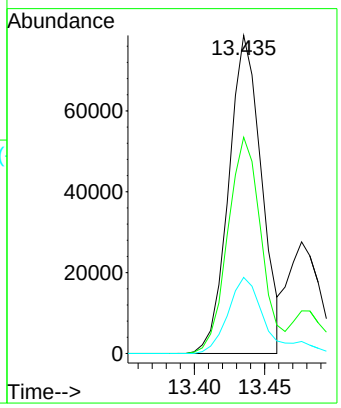
Tgt Ion:119 Resp: 127363

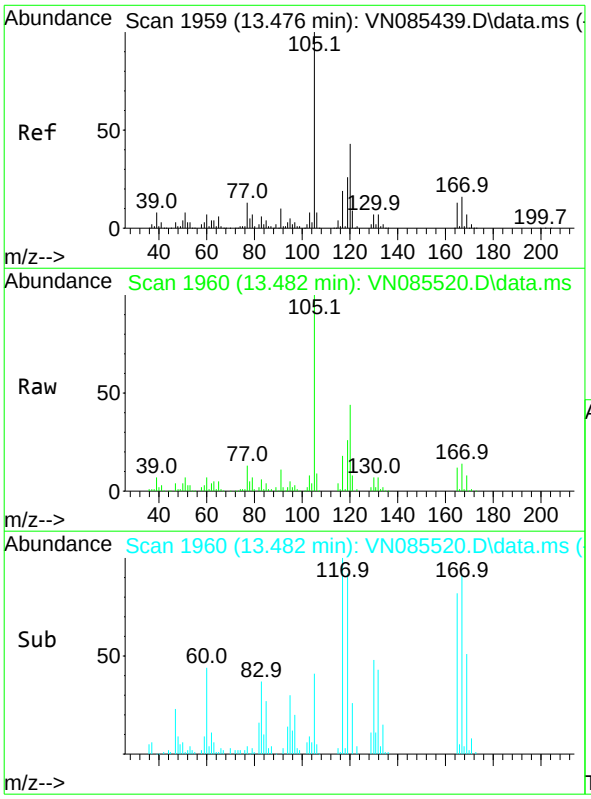
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 69.8 | 35.1 | 105.3 |
| 134 | 27.6 | 12.0 | 36.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

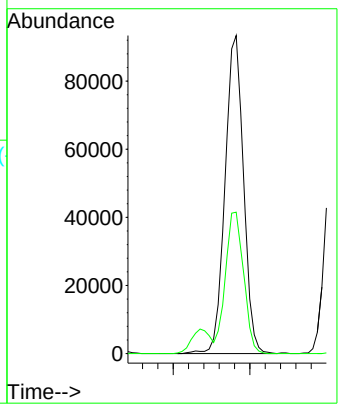


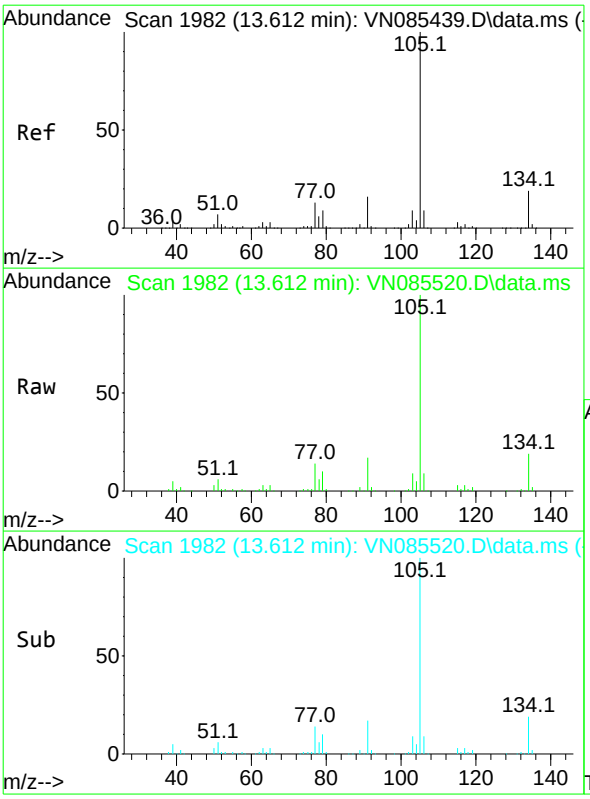




#84
1,2,4-Trimethylbenzene
Concen: 19.770 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:105 Resp: 156143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.9 | 21.6 | 65.0 |






#85
sec-Butylbenzene
Concen: 19.581 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:105 Resp: 180596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.0 | 9.7 | 28.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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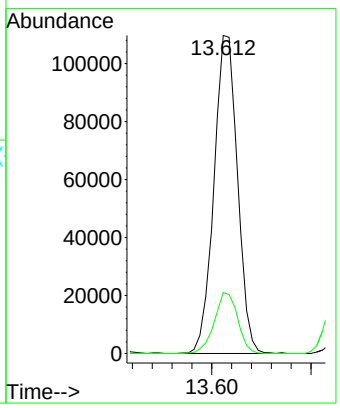
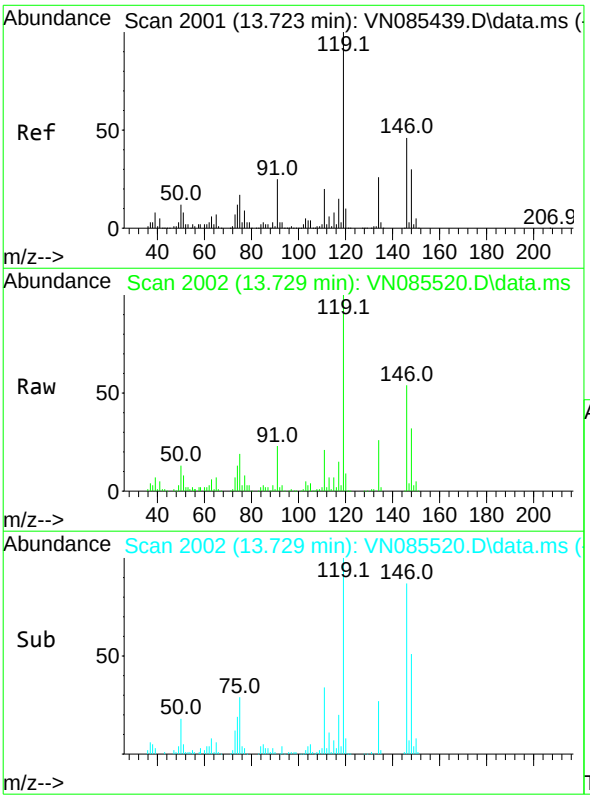
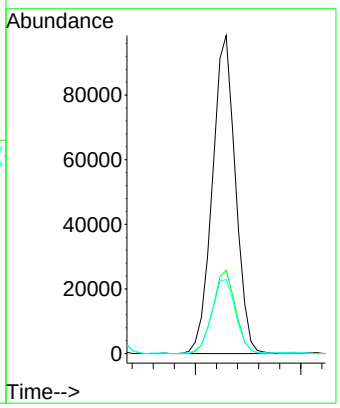


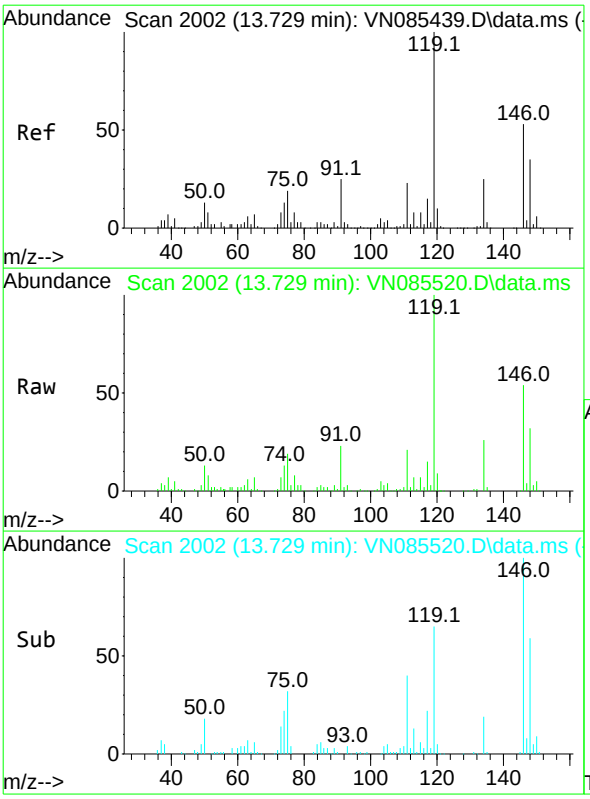




#86
p-Isopropyltoluene
Concen: 19.503 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:119 Resp: 149717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 12.7 | 38.0 |
| 91 | 24.4 | 12.7 | 38.1 |






#87
1,3-Dichlorobenzene
Concen: 18.889 ug/l
RT: 13.729 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

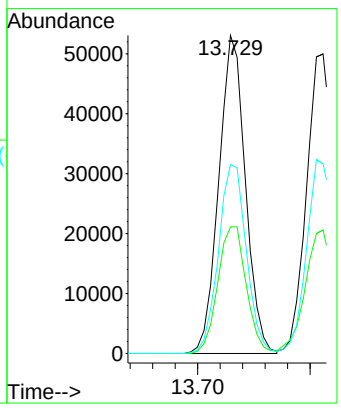
Tgt Ion:146 Resp: 87188

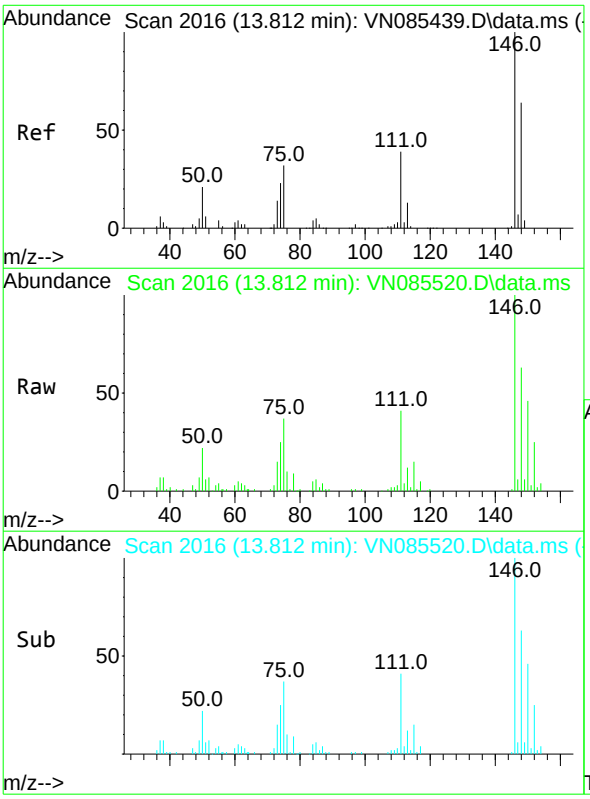
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.7 | 21.4 | 64.3 |
| 148 | 62.5 | 32.3 | 96.9 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

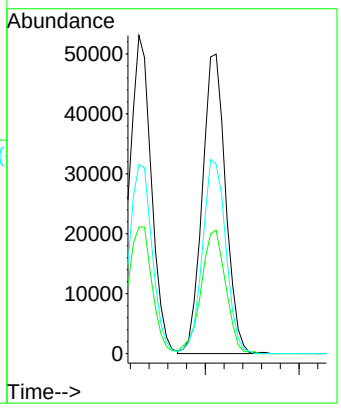


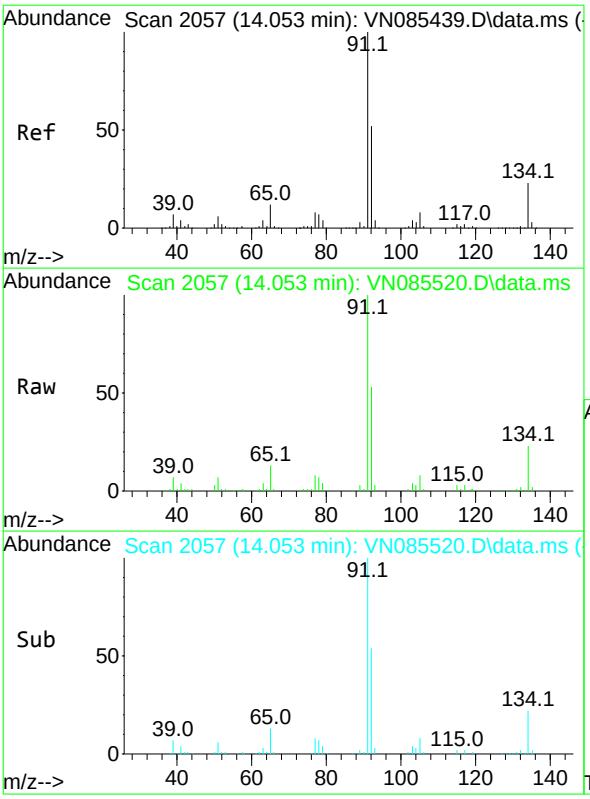




#88
1,4-Dichlorobenzene
Concen: 18.047 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:146 Resp: 86342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.5 | 21.3 | 63.7 |
| 148 | 65.0 | 32.4 | 97.0 |






#89
n-Butylbenzene
Concen: 18.129 ug/l
RT: 14.053 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 91 Resp: 119951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.0 | 25.8 | 77.3 |
| 134 | 24.3 | 11.7 | 35.1 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
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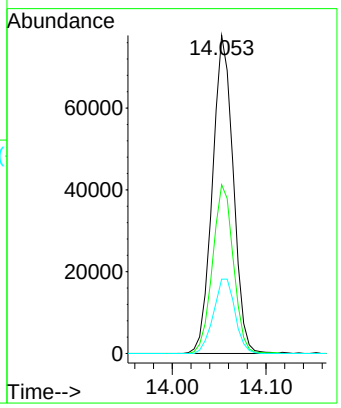
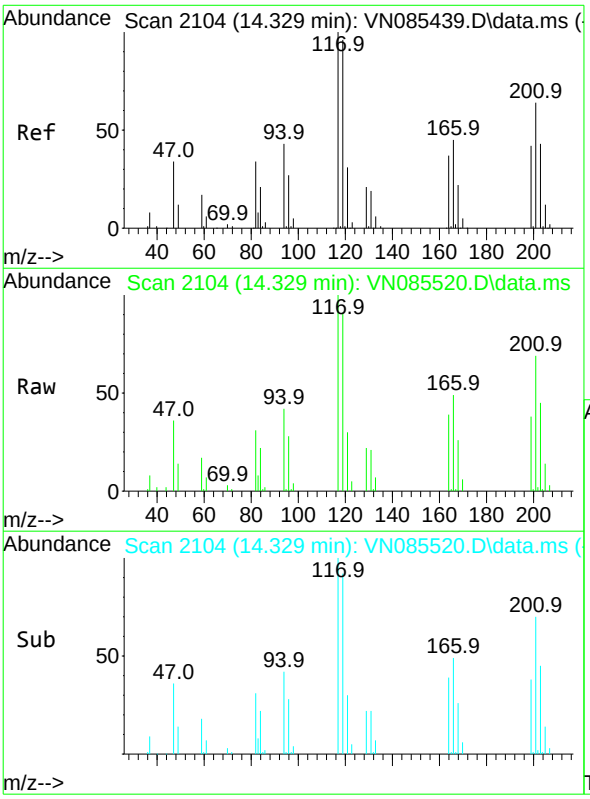
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

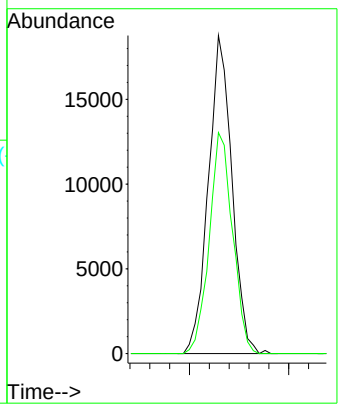


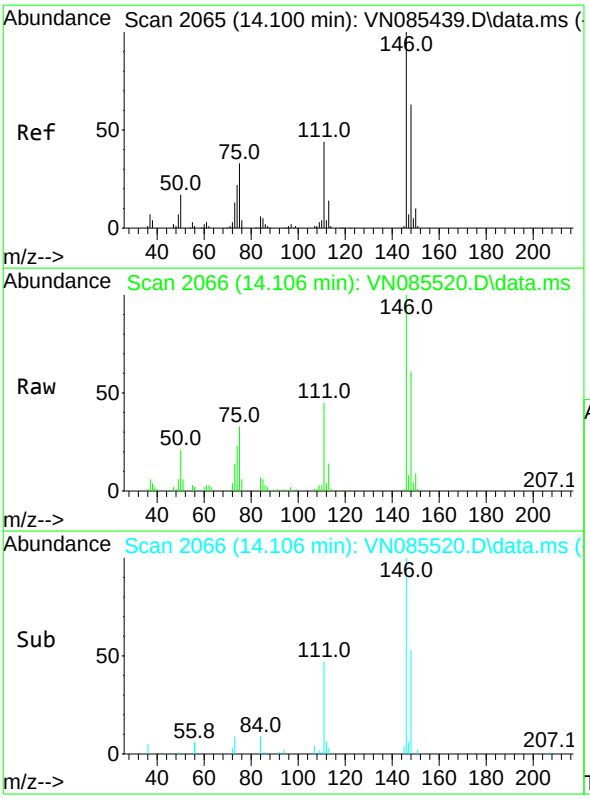




#90
Hexachloroethane
Concen: 17.610 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:117 Resp: 30919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 68.8 | 33.7 | 101.0 |






#91
1,2-Dichlorobenzene
Concen: 18.676 ug/l
RT: 14.106 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:146 Resp: 85986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.1 | 21.7 | 65.1 |
| 148 | 61.8 | 31.4 | 94.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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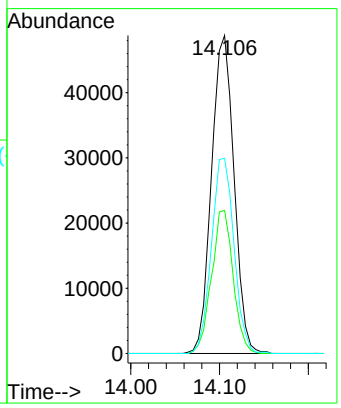
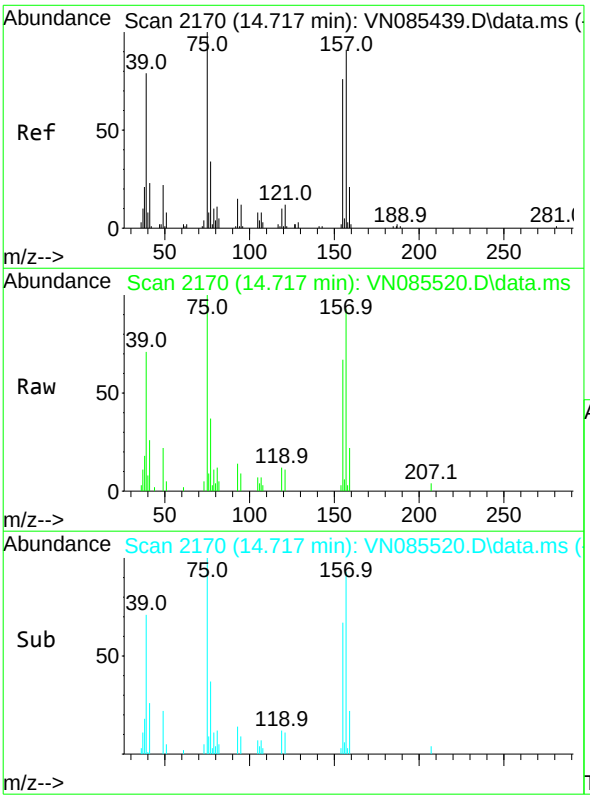
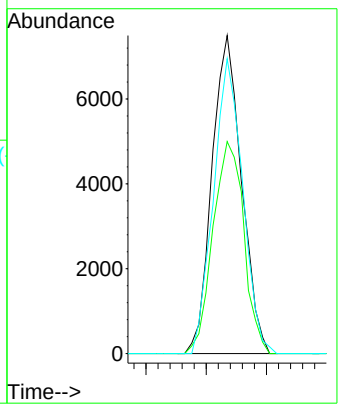


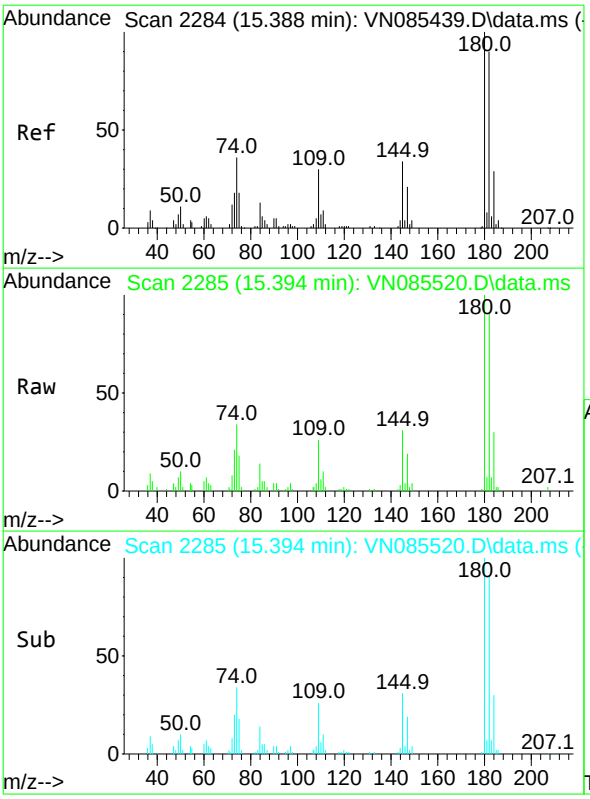




#92
1,2-Dibromo-3-Chloropropane
Concen: 20.659 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion: 75 Resp: 12784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 69.5 | 36.4 | 109.2 |
| 157 | 91.4 | 45.4 | 136.1 |






#93
1,2,4-Trichlorobenzene
Concen: 18.002 ug/l
RT: 15.394 min Scan# 22
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

Tgt Ion:180 Resp: 38523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 46.8 | 140.3 |
| 145 | 35.1 | 16.0 | 48.0 |

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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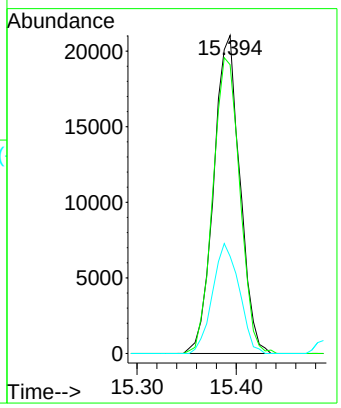
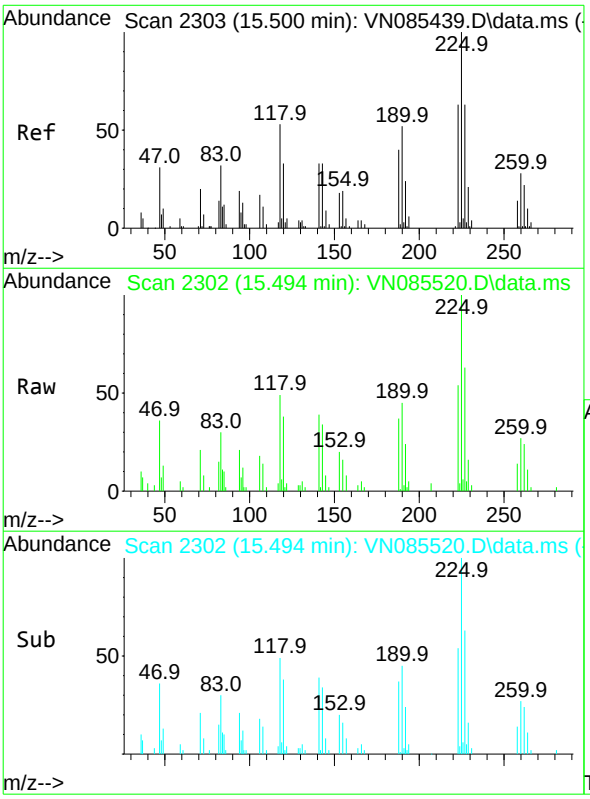
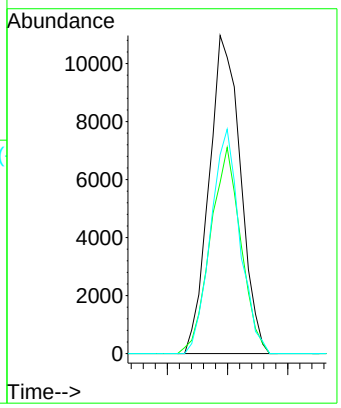


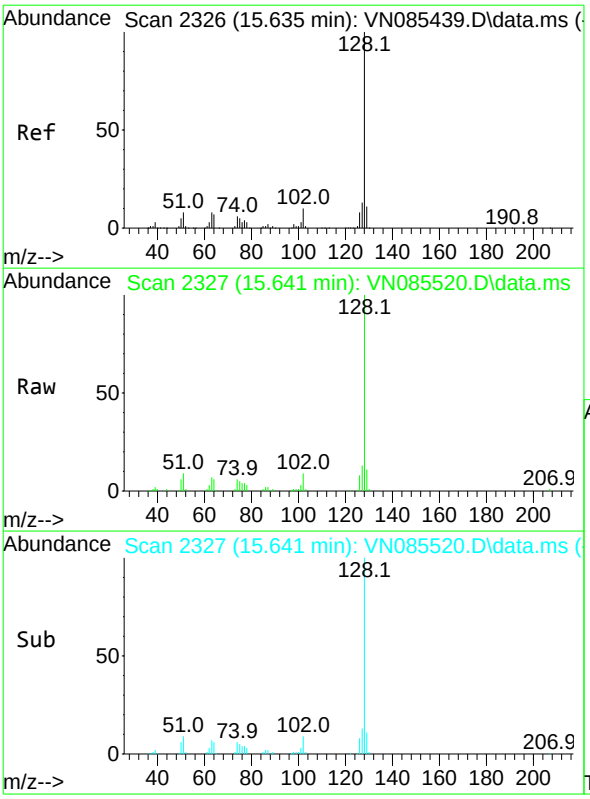




#94
Hexachlorobutadiene
Concen: 17.442 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:225 Resp: 19815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.0 | 30.7 | 92.1 |
| 227 | 65.6 | 30.9 | 92.5 |






#95
Naphthalene
Concen: 18.002 ug/l
RT: 15.641 min Scan# 23
Delta R.T. 0.006 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0127WBSD01

Tgt Ion:128 Resp: 114951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.6 | 16.0 |
| 129 | 11.4 | 8.8 | 13.2 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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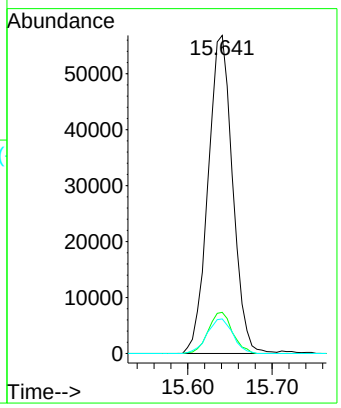
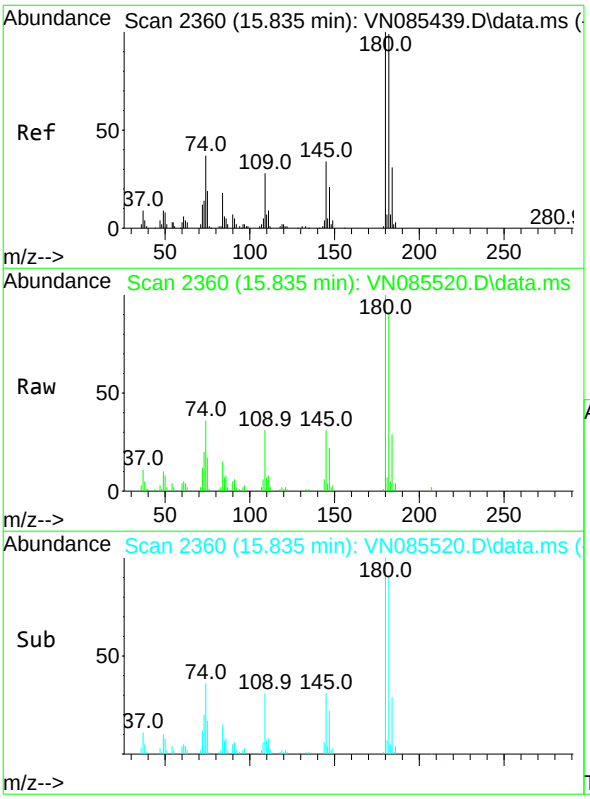
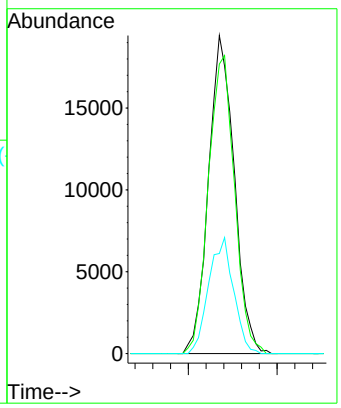



#96
1,2,3-Trichlorobenzene
Concen: 18.075 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085520.D
Acq: 27 Jan 2025 16:46

Tgt Ion:180 Resp: 39137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.2 | 47.4 | 142.2 |
| 145 | 35.2 | 16.9 | 50.7 |



Raw Data: **VY020939.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0127SBSD01 | SDG No.: | Q1194 |
| Lab Sample ID: | VY0127SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020939.D | 1 | | 01/27/25 10:54 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 21.1 | | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 19.9 | | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 19.9 | | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 18.8 | | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 20.2 | | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 20.8 | | 0.91 | 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 | 21.2 | | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 110 | | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 20.9 | | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 22.4 | | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 22.8 | | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 21.3 | | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 21.3 | | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 21.3 | | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 21.0 | | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 120 | | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 20.9 | | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 21.4 | | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 21.4 | | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 21.3 | | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 21.3 | | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 21.0 | | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 21.2 | | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 21.5 | | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 21.1 | | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 21.3 | | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 21.1 | | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 120 | | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 21.3 | | 0.67 | 5.00 | ug/Kg |

Raw Data: **VY020939.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0127SBSD01 | SDG No.: | Q1194 |
| Lab Sample ID: | VY0127SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020939.D | 1 | | 01/27/25 10:54 | VY012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 22.0 | | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 21.7 | | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 22.6 | | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 120 | | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 22.3 | | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 22.5 | | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 21.0 | | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.8 | | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 21.1 | | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 42.6 | | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 21.5 | | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 21.8 | | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 23.2 | | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 20.5 | | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 21.9 | | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 21.1 | | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 21.2 | | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 21.2 | | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 22.5 | | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20.2 | | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.7 | | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.9 | | 70 (50) - 130 (163) | 100% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.4 | | 70 (54) - 130 (147) | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.3 | | 70 (58) - 130 (134) | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 48.3 | | 70 (29) - 130 (146) | 97% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 285000 | 7.719 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 421000 | 8.622 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 357000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 177000 | 13.353 | | | |

Raw Data: **VY020939.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0127SBSD01 | SDG No.: | Q1194 |
| Lab Sample ID: | VY0127SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % 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: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020939.D | 1 | | 01/27/25 10:54 | VY012725 |

| 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

Quantitation Report (QT Reviewed)

Sample Results: **VY020939.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020939.D
Acq On : 27 Jan 2025 10:54
Operator : SY/MD
Sample : VY0127SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 28 01:10:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**
Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 284825 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 421282 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 357449 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 177256 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 113305 | 49.894 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 99.780% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 116966 | 48.363 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 96.720% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 452829 | 48.271 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 96.540% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 150937 | 48.345 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 96.700% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 45455 | 21.100 | ug/l | 98 |
| 3) Chloromethane | 2.074 | 50 | 31860 | 19.884 | ug/l | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 34695 | 19.868 | ug/l | 97 |
| 5) Bromomethane | 2.604 | 94 | 22255 | 18.816 | ug/l | 97 |
| 6) Chloroethane | 2.739 | 64 | 20662 | 20.167 | ug/l | 95 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 77010 | 20.756 | ug/l | 98 |
| 8) Diethyl Ether | 3.464 | 74 | 24706 | 21.666 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 51831 | 21.171 | ug/l | 100 |
| 10) Methyl Iodide | 4.019 | 142 | 57895 | 19.843 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.891 | 59 | 20731 | 118.255 | ug/l # | 84 |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 48946 | 21.170 | ug/l | 97 |
| 13) Acrolein | 3.665 | 56 | 28093 | 118.208 | ug/l | 96 |
| 14) Allyl chloride | 4.391 | 41 | 68738 | 21.301 | ug/l | 98 |
| 15) Acrylonitrile | 5.080 | 53 | 53151 | 118.575 | ug/l | 100 |
| 16) Acetone | 3.885 | 43 | 35174 | 114.319 | ug/l | 100 |
| 17) Carbon Disulfide | 4.116 | 76 | 149327 | 20.914 | ug/l | 99 |
| 18) Methyl Acetate | 4.403 | 43 | 25309 | 22.770 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.128 | 73 | 120063 | 22.421 | ug/l | 98 |
| 20) Methylene Chloride | 4.628 | 84 | 48793 | 21.323 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 52984 | 21.255 | ug/l | 96 |
| 22) Diisopropyl ether | 6.031 | 45 | 142495 | 21.953 | ug/l | 97 |
| 23) Vinyl Acetate | 5.970 | 43 | 413997 | 115.245 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 87580 | 21.285 | ug/l | 98 |
| 25) 2-Butanone | 6.902 | 43 | 62660 | 120.223 | ug/l | 93 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 86153 | 21.258 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.902 | 96 | 60307 | 21.437 | ug/l | 99 |
| 28) Bromochloromethane | 7.256 | 49 | 35375 | 21.362 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.268 | 42 | 42351 | 121.924 | ug/l | 99 |
| 30) Chloroform | 7.433 | 83 | 92869 | 21.326 | ug/l | 98 |
| 31) Cyclohexane | 7.707 | 56 | 84903 | 20.995 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 90140 | 21.340 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 71237 | 21.097 | ug/l | 100 |
| 37) Ethyl Acetate | 7.000 | 43 | 30206 | 23.056 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 84923 | 20.855 | ug/l | 99 |
| 39) Methylcyclohexane | 9.115 | 83 | 95859 | 20.969 | ug/l | 97 |
| 40) Benzene | 8.091 | 78 | 209800 | 21.178 | ug/l | 99 |

Sample Results: **VY020939.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020939.D
Acq On : 27 Jan 2025 10:54
Operator : SY/MD
Sample : VY0127SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 28 01:10:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**
Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

| | Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) | Methacrylonitrile | 7.226 | 41 | 15370 | 22.209 ug/l | 94 |
| 42) | 1,2-Dichloroethane | 8.164 | 62 | 53093 | 21.539 ug/l | 98 |
| 43) | Isopropyl Acetate | 8.201 | 43 | 58221 | 23.436 ug/l | 100 |
| 44) | Trichloroethene | 8.872 | 130 | 56869 | 21.131 ug/l | 99 |
| 45) | 1,2-Dichloropropane | 9.146 | 63 | 46640 | 21.329 ug/l | 99 |
| 46) | Dibromomethane | 9.237 | 93 | 28025 | 22.543 ug/l | 100 |
| 47) | Bromodichloromethane | 9.426 | 83 | 69877 | 21.125 ug/l | 95 |
| 48) | Methyl methacrylate | 9.225 | 41 | 26785 | 22.856 ug/l | 98 |
| 49) | 1,4-Dioxane | 9.243 | 88 | 6014 | 469.849 ug/l | 89 |
| 51) | 4-Methyl-2-Pentanone | 10.006 | 43 | 149292 | 119.182 ug/l | 98 |
| 52) | Toluene | 10.176 | 92 | 135955 | 21.339 ug/l | 100 |
| 53) | t-1,3-Dichloropropene | 10.402 | 75 | 66836 | 22.037 ug/l | 99 |
| 54) | cis-1,3-Dichloropropene | 9.859 | 75 | 78415 | 21.653 ug/l | 99 |
| 55) | 1,1,2-Trichloroethane | 10.579 | 97 | 37955 | 22.587 ug/l | 95 |
| 56) | Ethyl methacrylate | 10.445 | 69 | 50841 | 23.086 ug/l | 99 |
| 57) | 1,3-Dichloropropane | 10.725 | 76 | 63115 | 22.109 ug/l | 99 |
| 58) | 2-Chloroethyl Vinyl ether | 9.713 | 63 | 115619 | 115.673 ug/l | 99 |
| 59) | 2-Hexanone | 10.768 | 43 | 97780 | 121.392 ug/l | 99 |
| 60) | Dibromochloromethane | 10.914 | 129 | 52852 | 22.348 ug/l | 98 |
| 61) | 1,2-Dibromoethane | 11.018 | 107 | 36229 | 22.541 ug/l | 99 |
| 64) | Tetrachloroethene | 10.652 | 164 | 52128 | 20.956 ug/l | 97 |
| 65) | Chlorobenzene | 11.450 | 112 | 145707 | 20.845 ug/l | 99 |
| 66) | 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 52164 | 21.001 ug/l | 98 |
| 67) | Ethyl Benzene | 11.524 | 91 | 257647 | 21.124 ug/l | 99 |
| 68) | m/p-Xylenes | 11.633 | 106 | 198772 | 42.560 ug/l | 100 |
| 69) | o-Xylene | 11.963 | 106 | 93925 | 21.530 ug/l | 98 |
| 70) | Styrene | 11.975 | 104 | 155592 | 21.762 ug/l | 99 |
| 71) | Bromoform | 12.139 | 173 | 32578 | 23.162 ug/l # | 99 |
| 73) | Isopropylbenzene | 12.261 | 105 | 250807 | 20.544 ug/l | 100 |
| 74) | N-amyl acetate | 12.078 | 43 | 48395 | 22.278 ug/l | 98 |
| 75) | 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 41551 | 21.875 ug/l | 97 |
| 76) | 1,2,3-Trichloropropane | 12.560 | 75 | 30296m | 24.174 ug/l | |
| 77) | Bromobenzene | 12.536 | 156 | 59898 | 20.931 ug/l | 99 |
| 78) | n-propylbenzene | 12.603 | 91 | 292813 | 20.591 ug/l | 99 |
| 79) | 2-Chlorotoluene | 12.682 | 91 | 165489 | 20.519 ug/l | 100 |
| 80) | 1,3,5-Trimethylbenzene | 12.743 | 105 | 202876 | 20.682 ug/l | 99 |
| 81) | trans-1,4-Dichloro-2-b... | 12.310 | 75 | 15200 | 23.432 ug/l | 98 |
| 82) | 4-Chlorotoluene | 12.786 | 91 | 171989 | 20.883 ug/l | 100 |
| 83) | tert-Butylbenzene | 13.005 | 119 | 189901 | 20.988 ug/l | 100 |
| 84) | 1,2,4-Trimethylbenzene | 13.048 | 105 | 201137 | 20.828 ug/l | 100 |
| 85) | sec-Butylbenzene | 13.182 | 105 | 267350 | 20.725 ug/l | 99 |
| 86) | p-Isopropyltoluene | 13.298 | 119 | 228567 | 20.972 ug/l | 99 |
| 87) | 1,3-Dichlorobenzene | 13.292 | 146 | 115425 | 21.064 ug/l | 99 |
| 88) | 1,4-Dichlorobenzene | 13.371 | 146 | 114087 | 21.194 ug/l | 99 |
| 89) | n-Butylbenzene | 13.621 | 91 | 198093 | 20.606 ug/l | 100 |
| 90) | Hexachloroethane | 13.889 | 117 | 43750 | 20.208 ug/l | 99 |
| 91) | 1,2-Dichlorobenzene | 13.663 | 146 | 100553 | 21.180 ug/l | 99 |
| 92) | 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 6433 | 22.545 ug/l | 98 |
| 93) | 1,2,4-Trichlorobenzene | 14.925 | 180 | 57558 | 20.153 ug/l | 99 |
| 94) | Hexachlorobutadiene | 15.029 | 225 | 37814 | 19.352 ug/l | 98 |
| 95) | Naphthalene | 15.151 | 128 | 99439 | 21.712 ug/l | 99 |
| 96) | 1,2,3-Trichlorobenzene | 15.334 | 180 | 49787 | 20.749 ug/l | 97 |

Sample Results: **VY020939.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020939.D
Acq On : 27 Jan 2025 10:54
Operator : SY/MD
Sample : VY0127SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

Quant Time: Jan 28 01:10:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

Sample Results: **VY020939.D**

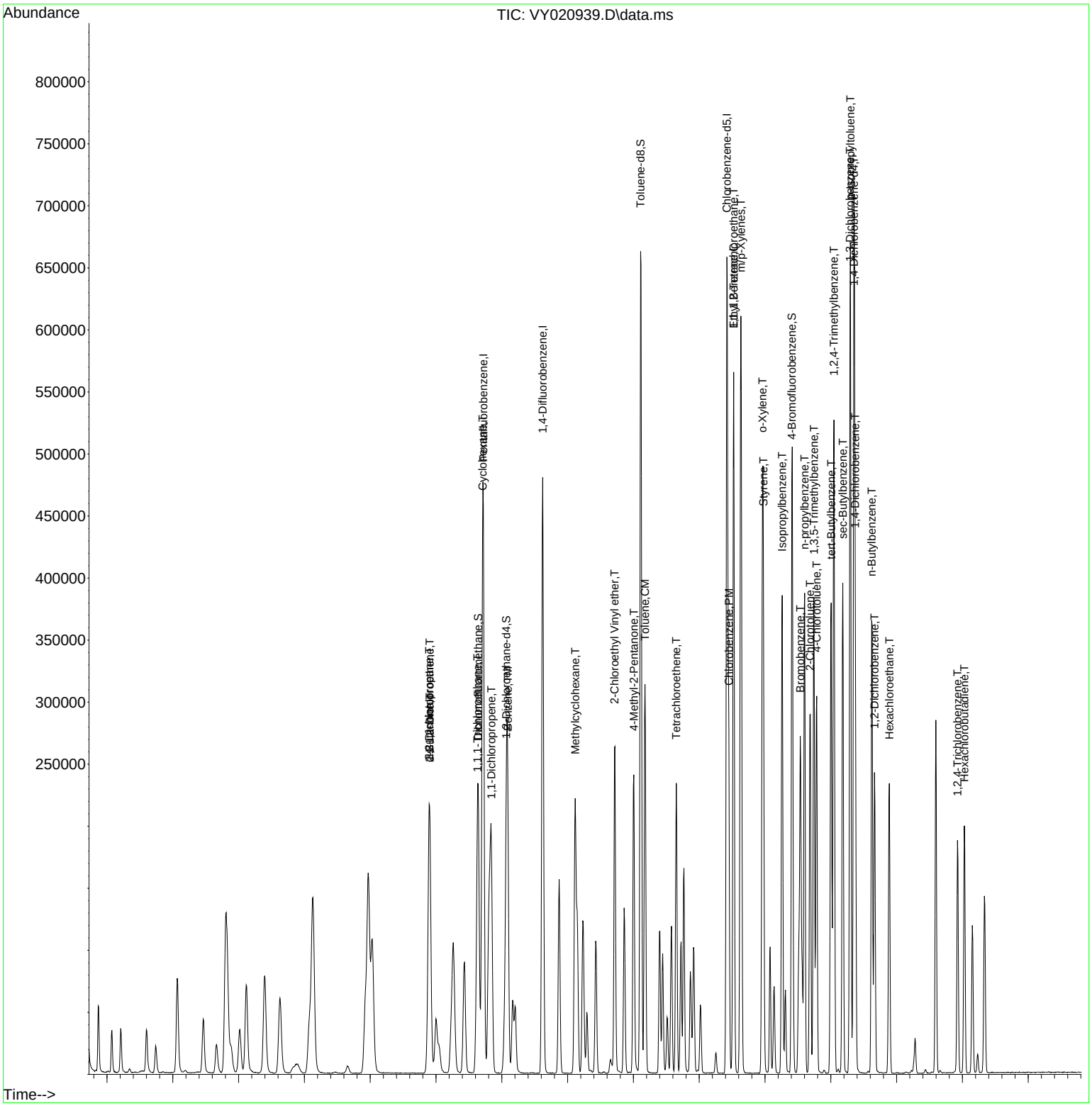
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012725\
Data File : VY020939.D
Acq On : 27 Jan 2025 10:54
Operator : SY/MD
Sample : VY0127SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

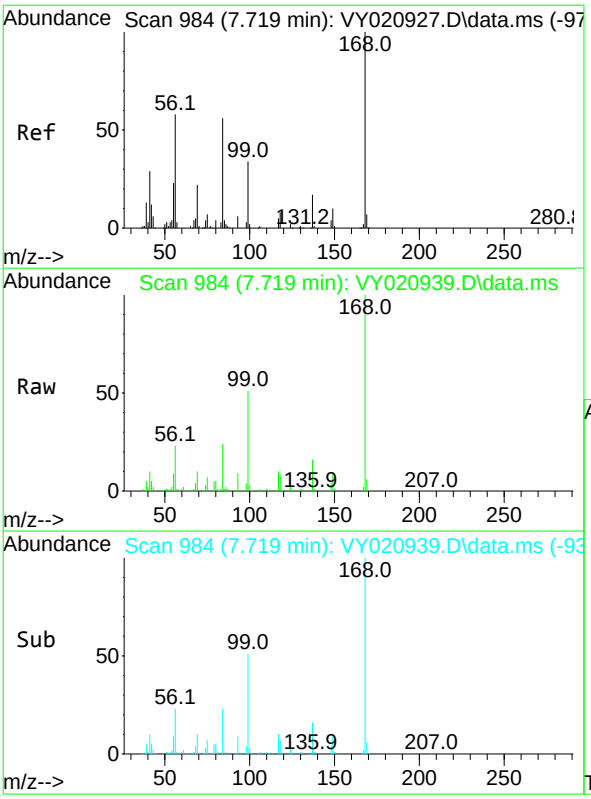
Quant Time: Jan 28 01:10:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
Quant Title : SW846 8260
QLast Update : Sat Jan 25 01:12:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

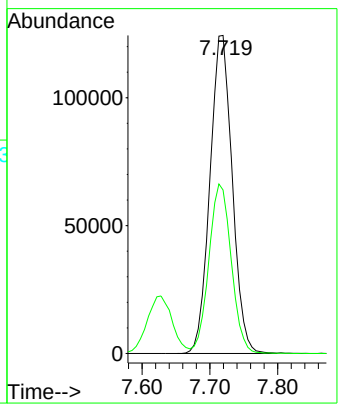
Tgt Ion:168 Resp: 284825

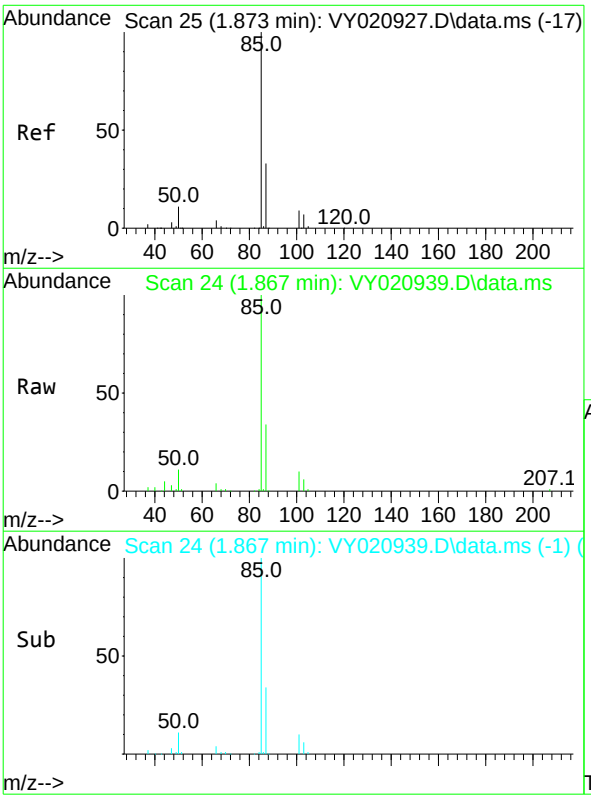
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.3 | 43.0 | 64.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

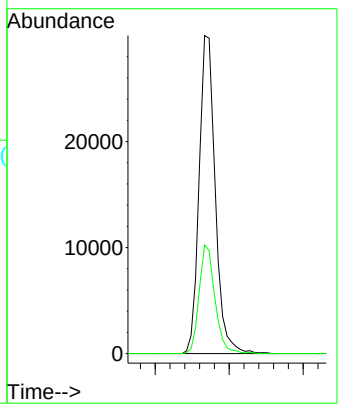


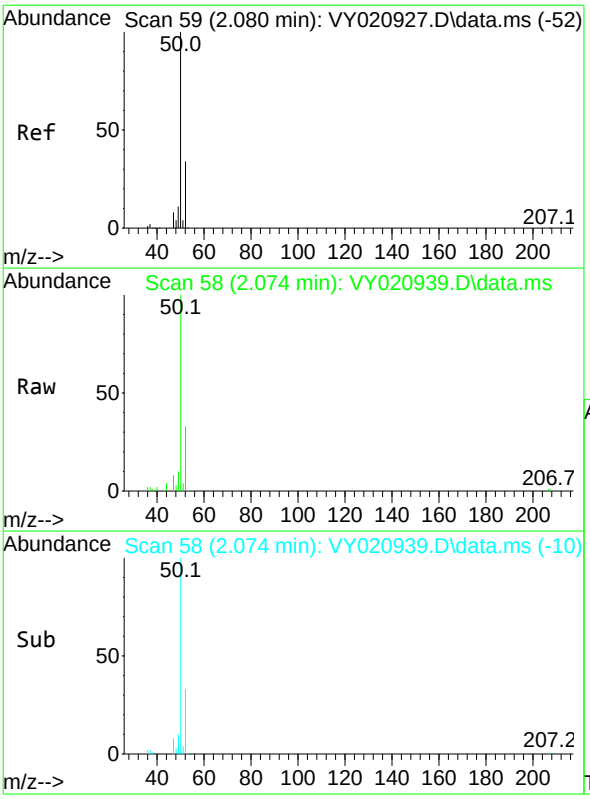




#2
Dichlorodifluoromethane
Concen: 21.100 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 85 Resp: 45455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.2 | 16.6 | 49.8 |






#3
Chloromethane
Concen: 19.884 ug/l
RT: 2.074 min Scan# 58
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

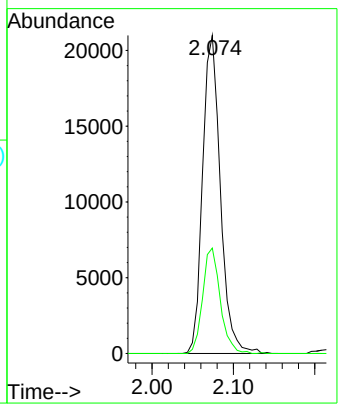
Tgt Ion: 50 Resp: 31860

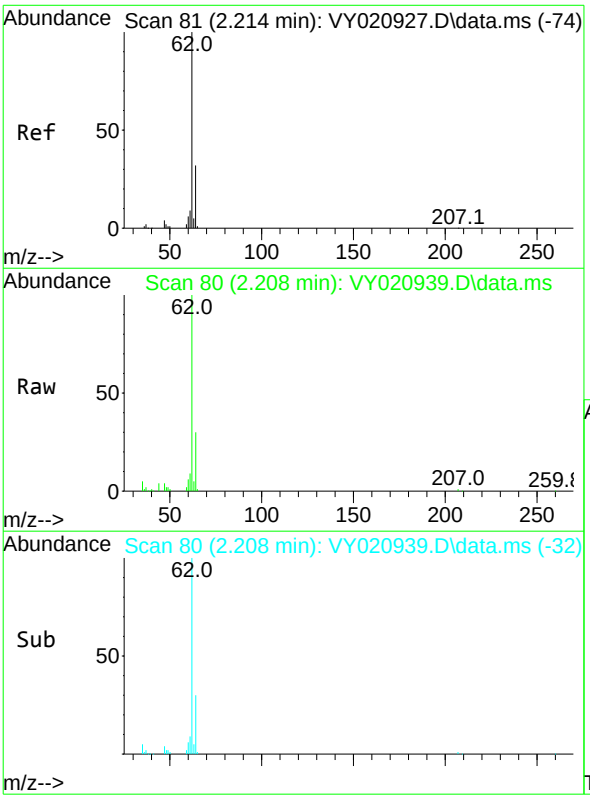
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.1 | 27.4 | 41.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

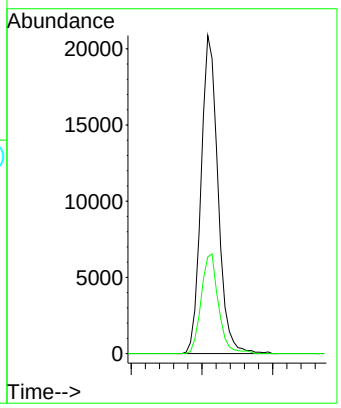


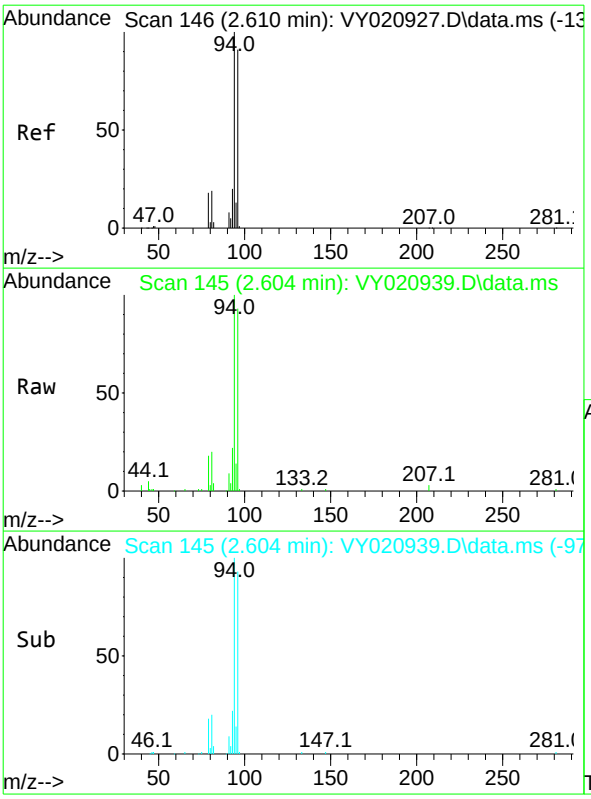




#4
Vinyl Chloride
Concen: 19.868 ug/l
RT: 2.208 min Scan# 80
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 62 Resp: 34695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.4 | 25.7 | 38.5 |






#5
Bromomethane
Concen: 18.816 ug/l
RT: 2.604 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

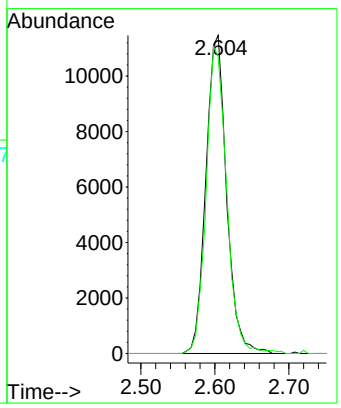
Tgt Ion: 94 Resp: 22255

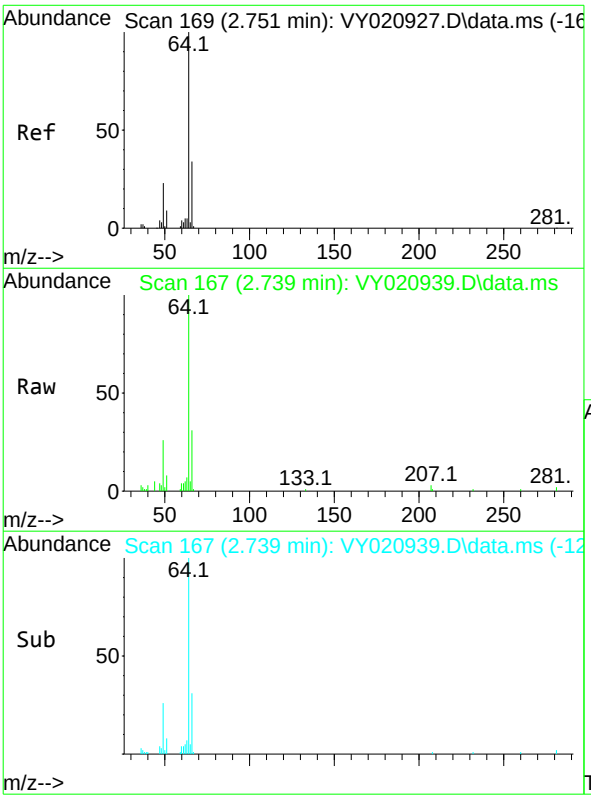
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.3 | 72.6 | 109.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

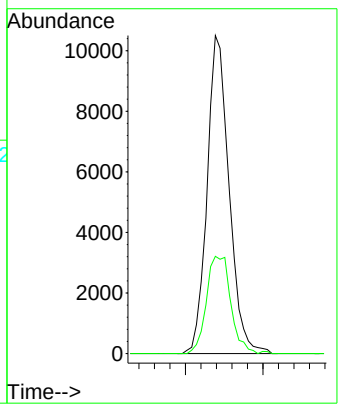


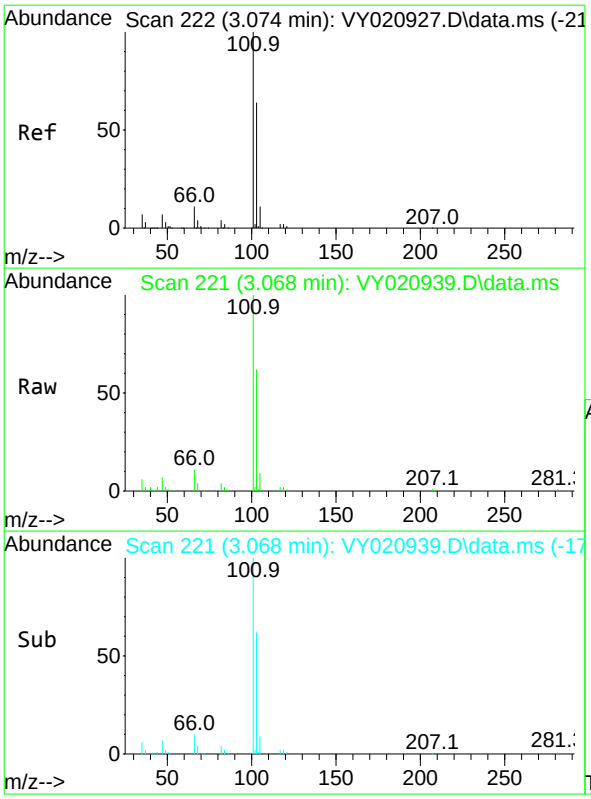




#6
Chloroethane
Concen: 20.167 ug/l
RT: 2.739 min Scan# 167
Delta R.T. -0.012 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 64 Resp: 20662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.6 | 26.9 | 40.3 |






#7
Trichlorofluoromethane
Concen: 20.756 ug/l
RT: 3.068 min Scan# 22
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

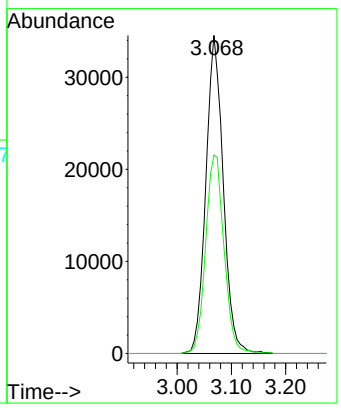
Tgt Ion:101 Resp: 77010

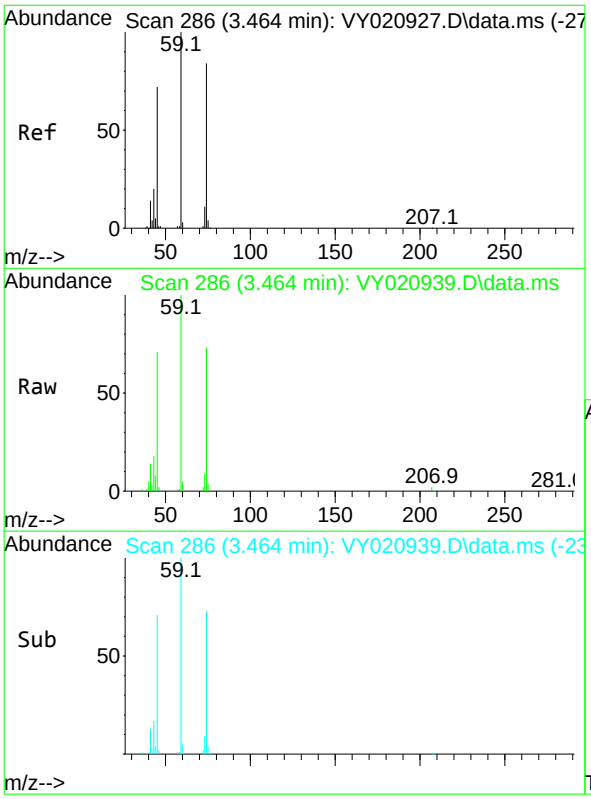
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.4 | 51.0 | 76.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

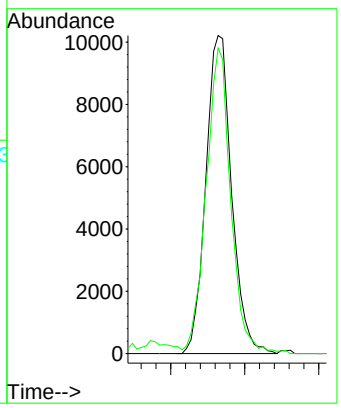


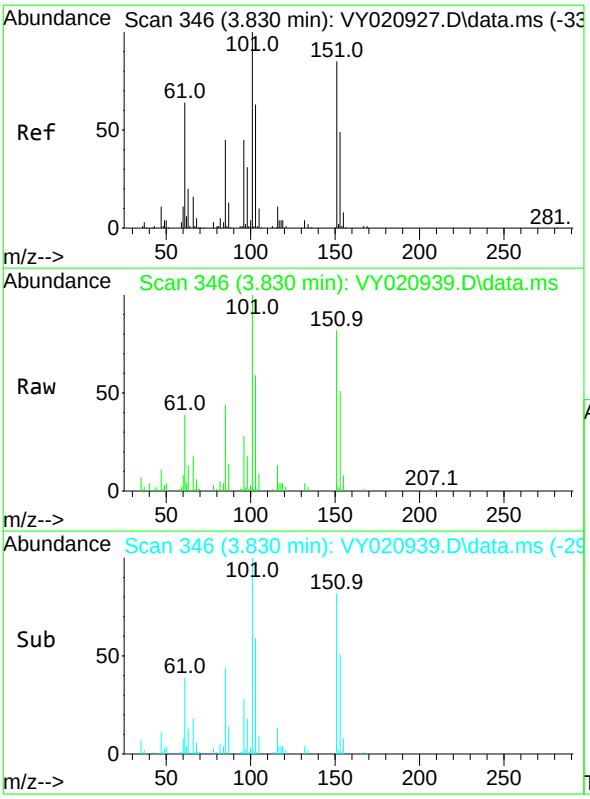




#8
Diethyl Ether
Concen: 21.666 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 74 Resp: 24706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 92.0 | 45.1 | 135.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.171 ug/l
RT: 3.830 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

Tgt Ion:101 Resp: 51831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.5 | 35.4 | 53.2 |
| 151 | 82.9 | 66.3 | 99.5 |

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
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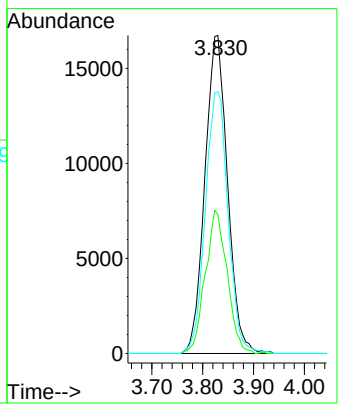
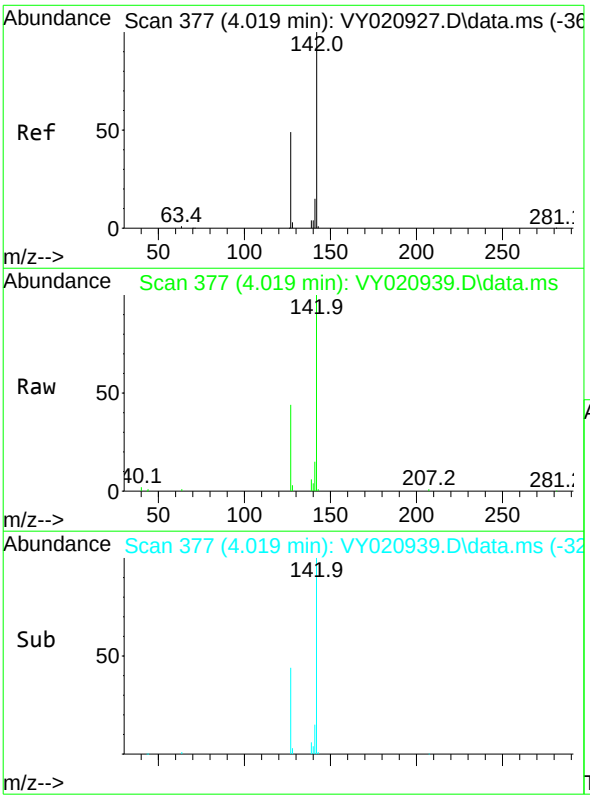
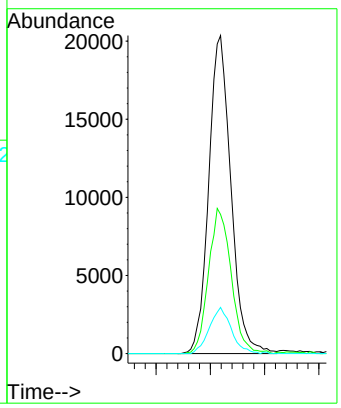


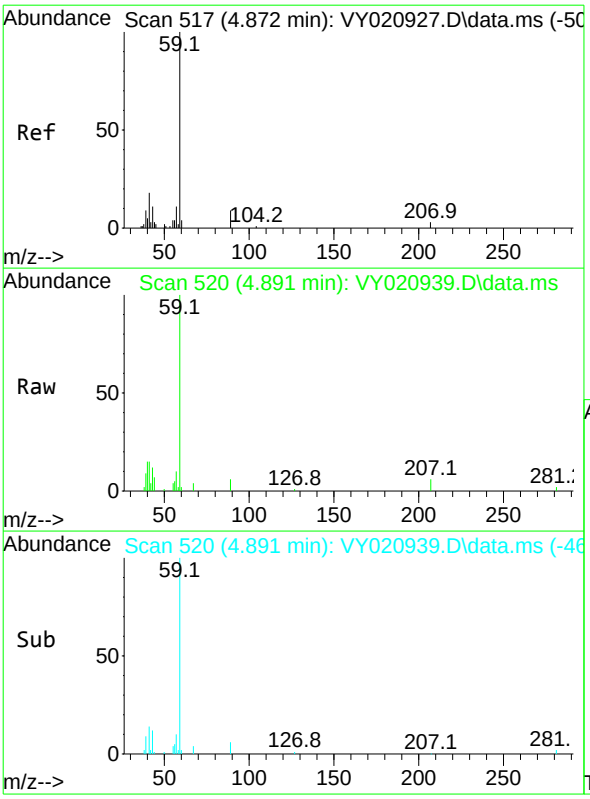




#10
Methyl Iodide
Concen: 19.843 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:142 Resp: 57895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.6 | 37.3 | 55.9 |
| 141 | 14.4 | 11.4 | 17.2 |






#11
Tert butyl alcohol
Concen: 118.255 ug/l
RT: 4.891 min Scan# 52
Delta R.T. 0.018 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

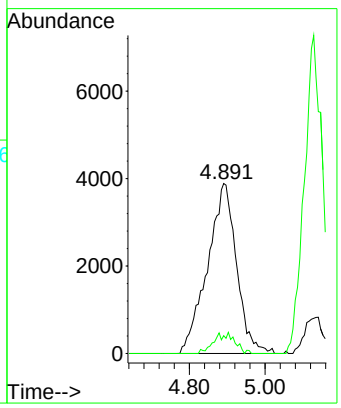
Tgt Ion: 59 Resp: 20731

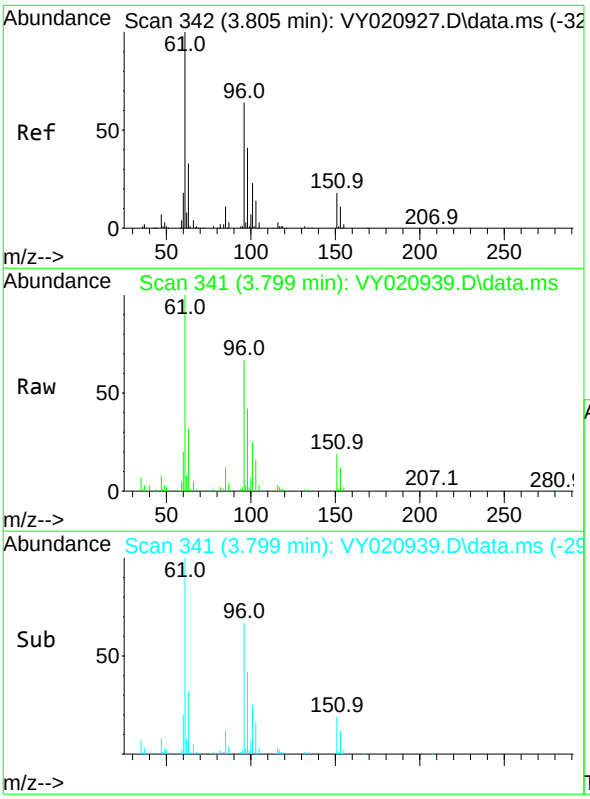
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 3.8 | 7.7 | 11.5# |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

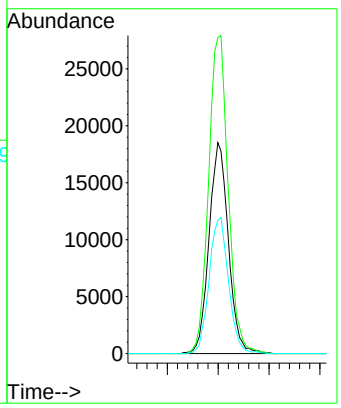


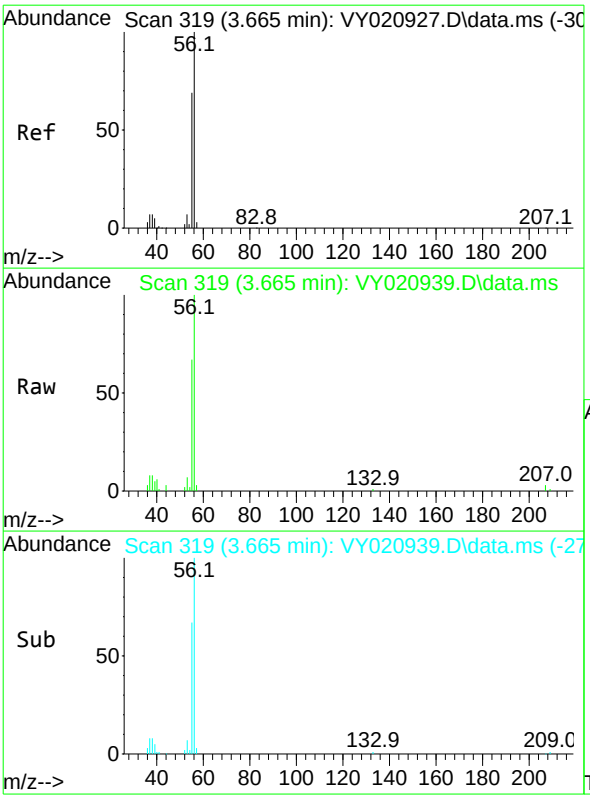




#12
1,1-Dichloroethene
Concen: 21.170 ug/l
RT: 3.799 min Scan# 341
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 96 Resp: 48946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 149.8 | 124.5 | 186.7 |
| 98 | 63.1 | 50.5 | 75.7 |






#13
Acrolein
Concen: 118.208 ug/l
RT: 3.665 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 56 Resp: 28093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.7 | 54.6 | 81.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
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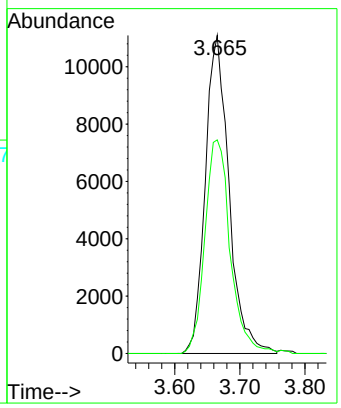
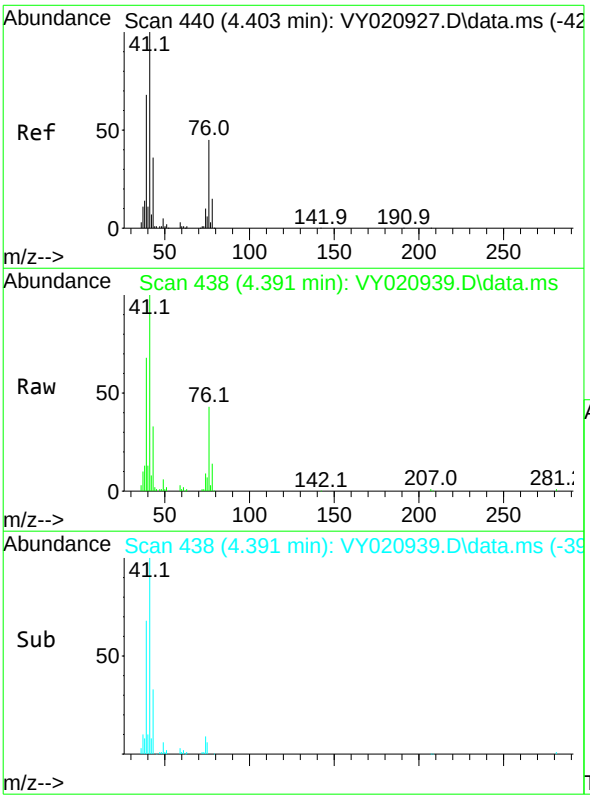
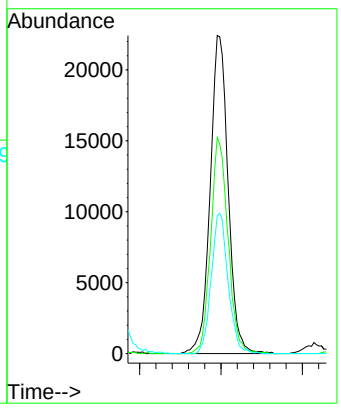


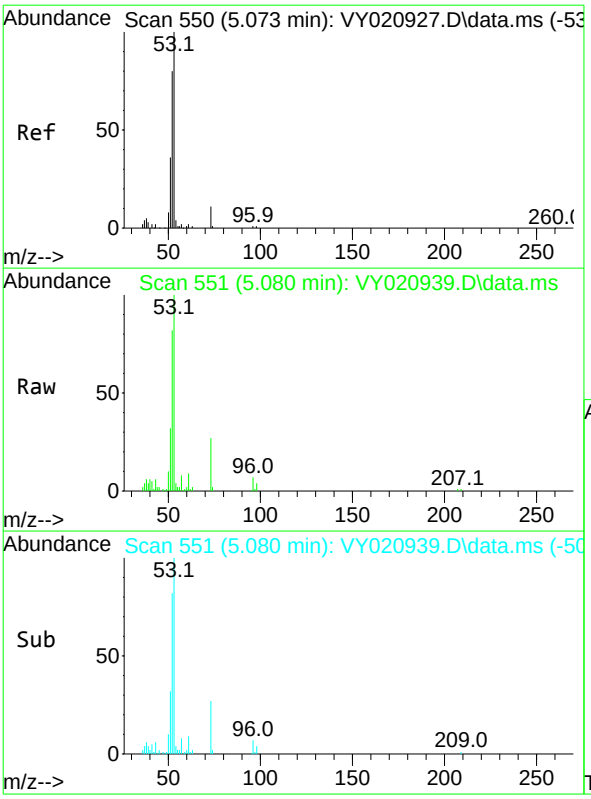




#14
Allyl chloride
Concen: 21.301 ug/l
RT: 4.391 min Scan# 438
Delta R.T. -0.012 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 41 Resp: 68738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 65.4 | 53.8 | 80.6 |
| 76 | 41.3 | 34.2 | 51.4 |






#15
Acrylonitrile
Concen: 118.575 ug/l
RT: 5.080 min Scan# 55
Delta R.T. 0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 53 Resp: 53151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.1 | 64.5 | 96.7 |
| 51 | 35.9 | 28.9 | 43.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
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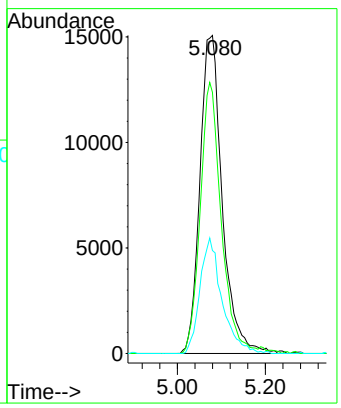
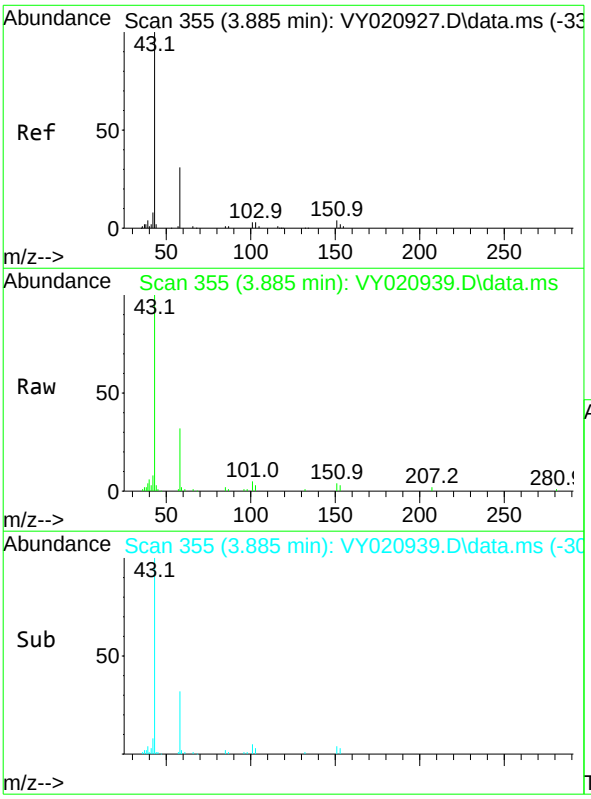
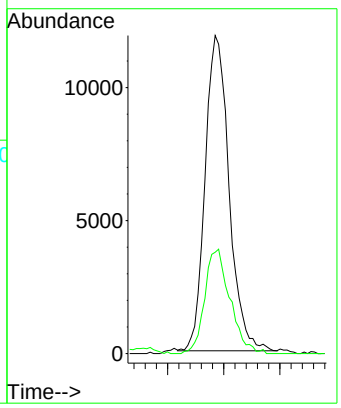


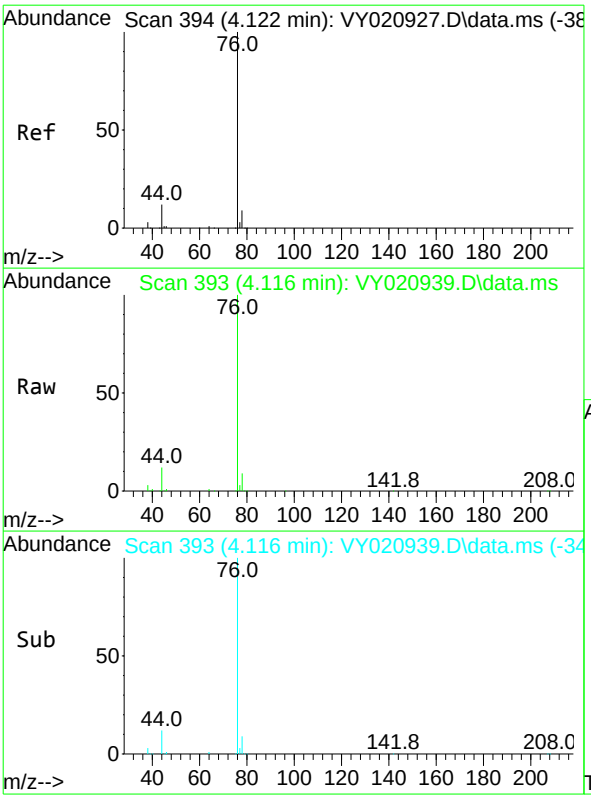




#16
Acetone
Concen: 114.319 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 43 Resp: 35174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.1 | 25.6 | 38.4 |






#17
Carbon Disulfide
Concen: 20.914 ug/l
RT: 4.116 min Scan# 39
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 76 Resp: 149327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.3 | 7.2 | 10.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
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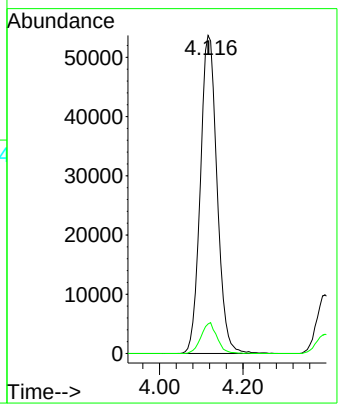
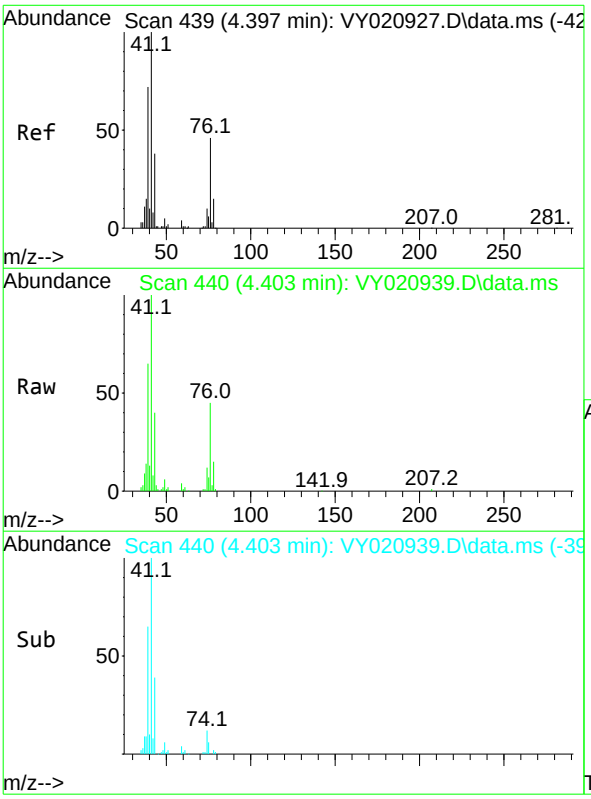
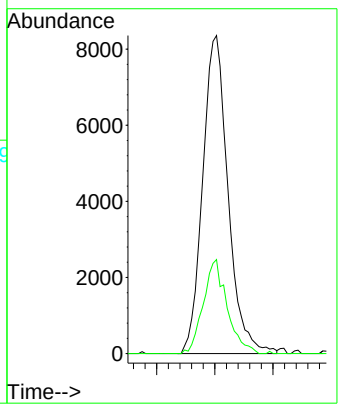


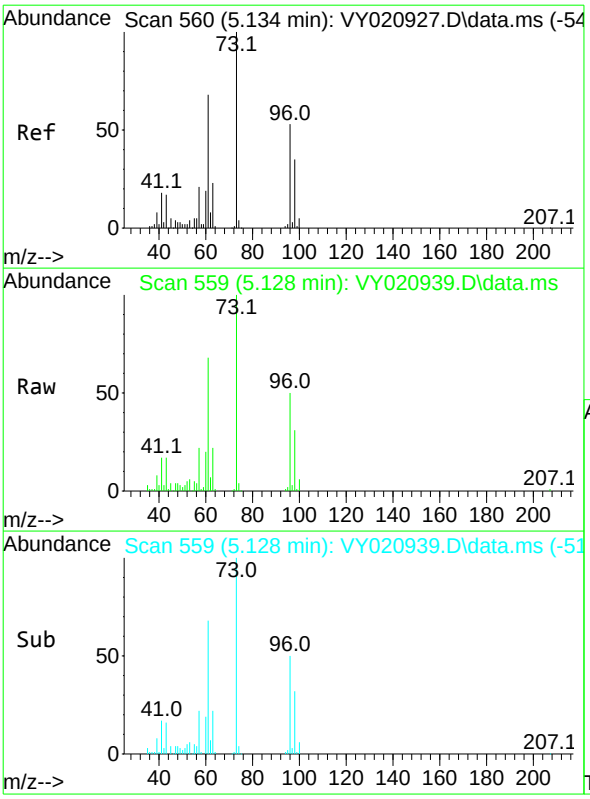




#18
Methyl Acetate
Concen: 22.770 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 43 Resp: 25309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.7 | 21.0 | 31.6 |






#19
Methyl tert-butyl Ether
Concen: 22.421 ug/l
RT: 5.128 min Scan# 55
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

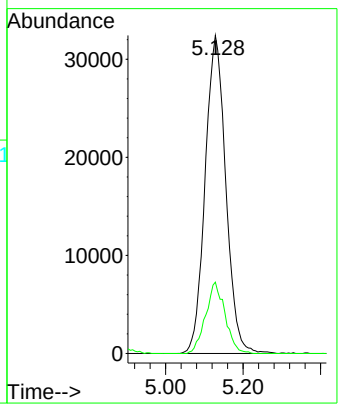
Tgt Ion: 73 Resp: 120063

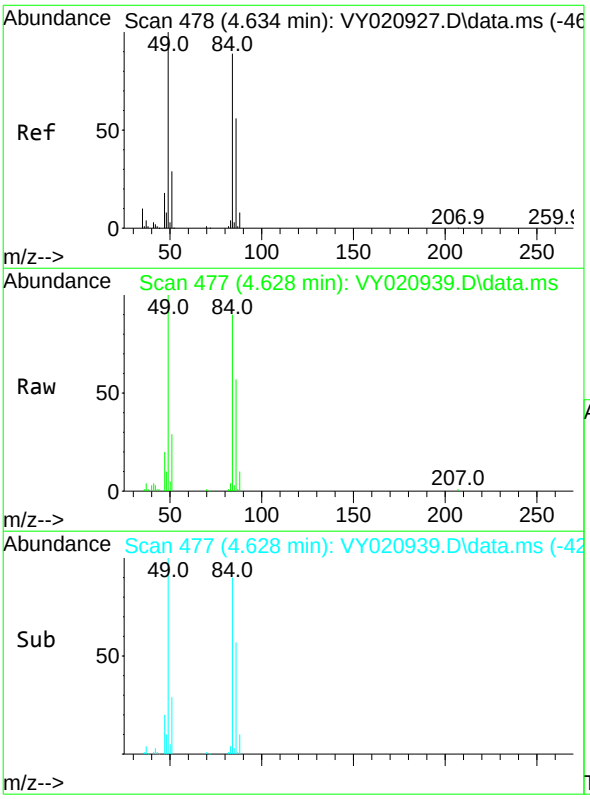
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.4 | 17.0 | 25.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

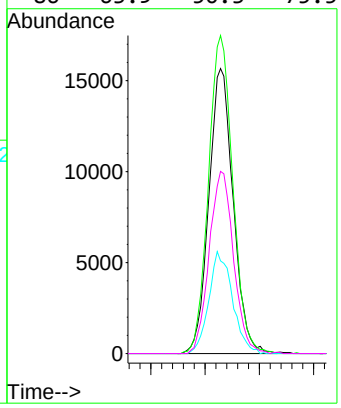


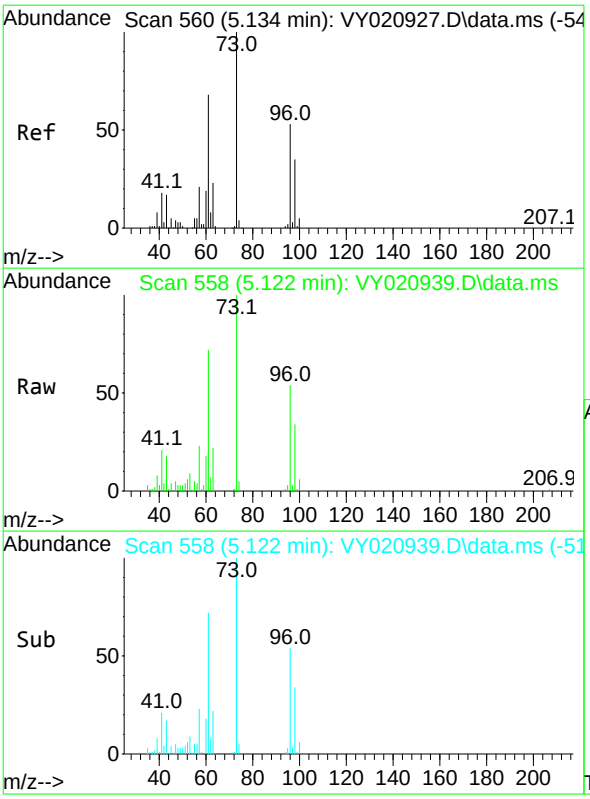




#20
Methylene Chloride
Concen: 21.323 ug/l
RT: 4.628 min Scan# 477
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 84 Resp: 48793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 111.6 | 90.3 | 135.5 |
| 51 | 32.5 | 26.6 | 39.8 |
| 86 | 63.9 | 50.3 | 75.5 |






#21
trans-1,2-Dichloroethene
Concen: 21.255 ug/l
RT: 5.122 min Scan# 55
Delta R.T. -0.012 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

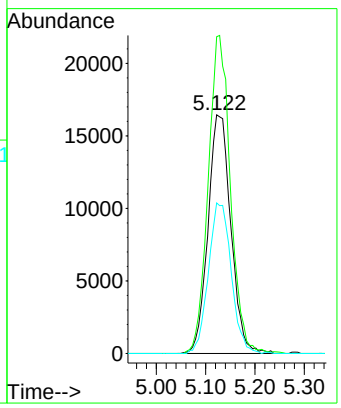
Tgt Ion: 96 Resp: 52984

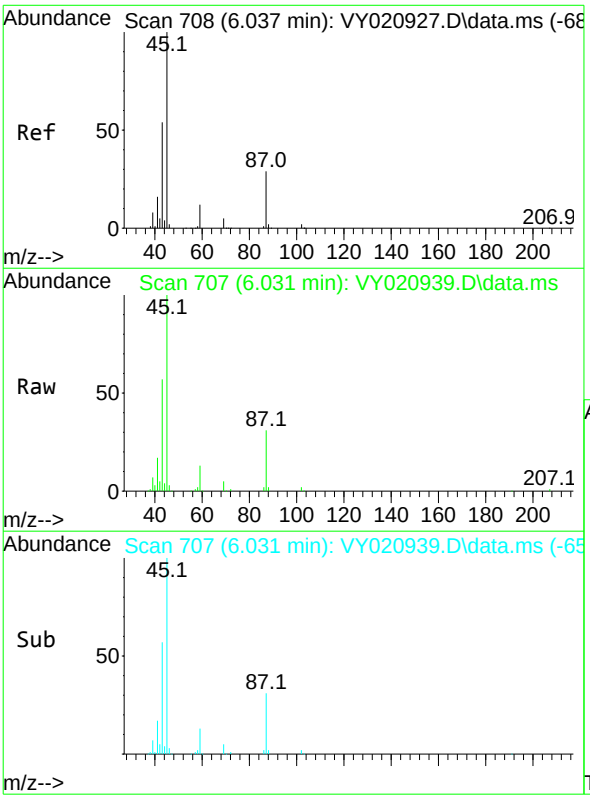
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 132.7 | 102.4 | 153.6 |
| 98 | 63.1 | 52.0 | 78.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

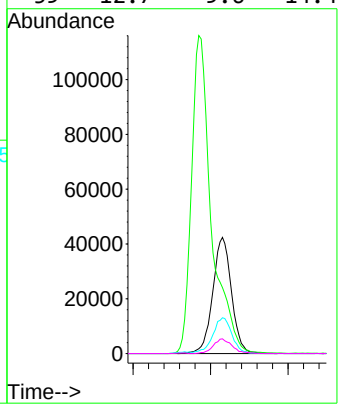


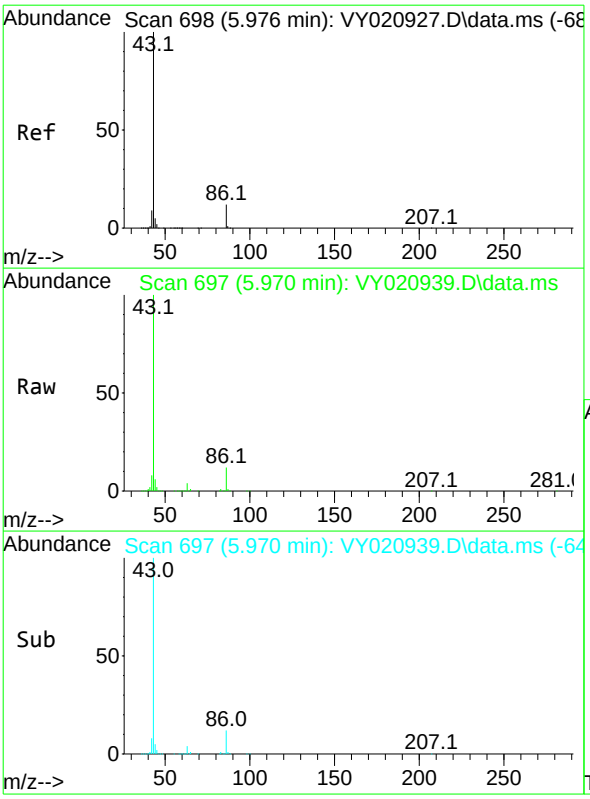




#22
Diisopropyl ether
Concen: 21.953 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 45 Resp: 142495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 56.3 | 43.2 | 64.8 |
| 87 | 30.8 | 23.4 | 35.0 |
| 59 | 12.7 | 9.6 | 14.4 |






#23
Vinyl Acetate
Concen: 115.245 ug/l
RT: 5.970 min Scan# 69
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 43 Resp: 413997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.3 | 9.8 | 14.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
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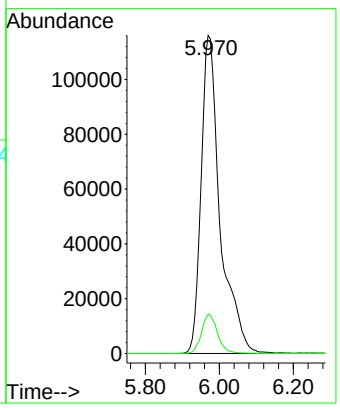
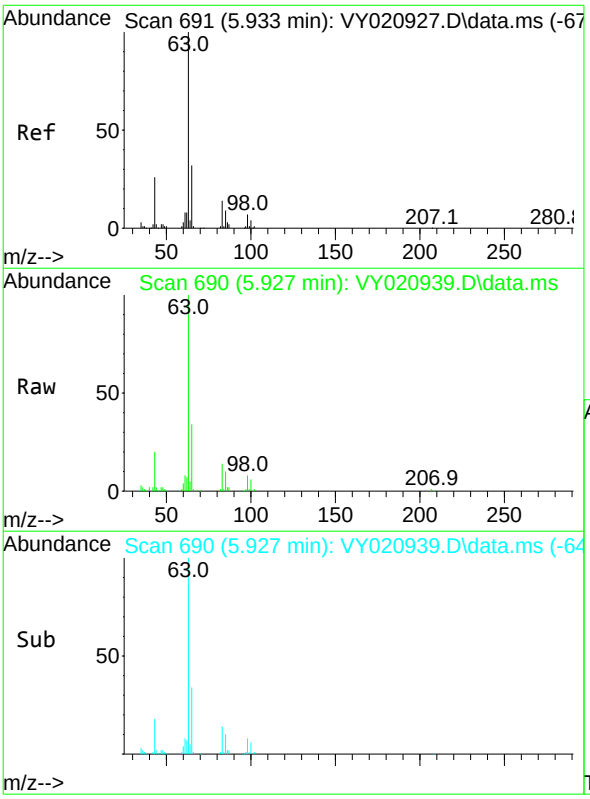
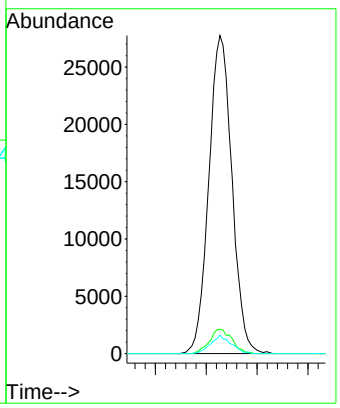


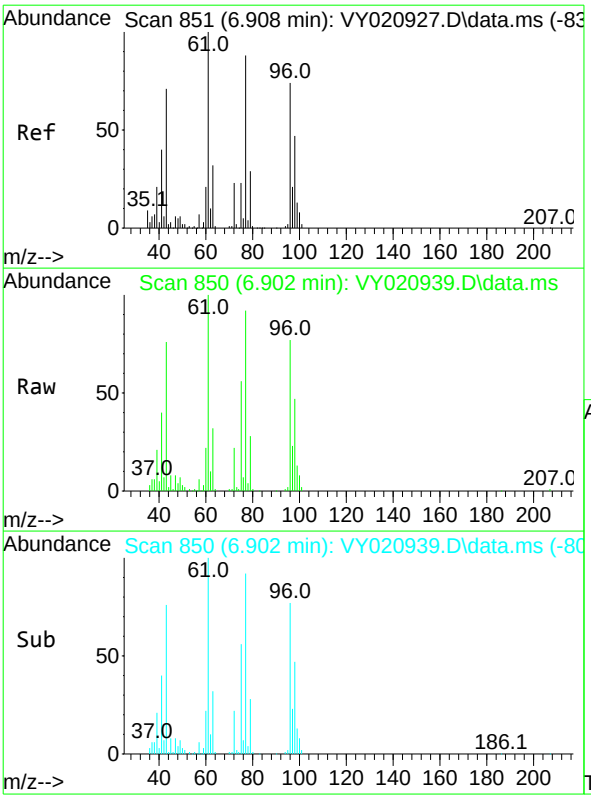




#24
1,1-Dichloroethane
Concen: 21.285 ug/l
RT: 5.927 min Scan# 690
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 63 Resp: 87580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.7 | 3.7 | 11.1 |
| 100 | 5.8 | 2.3 | 6.8 |






#25
2-Butanone
Concen: 120.223 ug/l
RT: 6.902 min Scan# 85
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 43 Resp: 62660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.6 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
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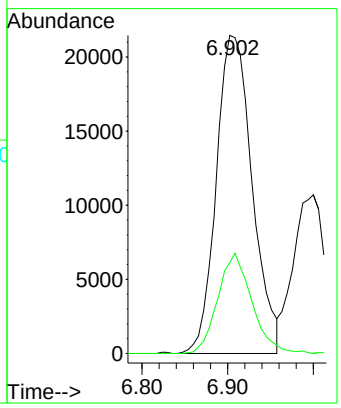
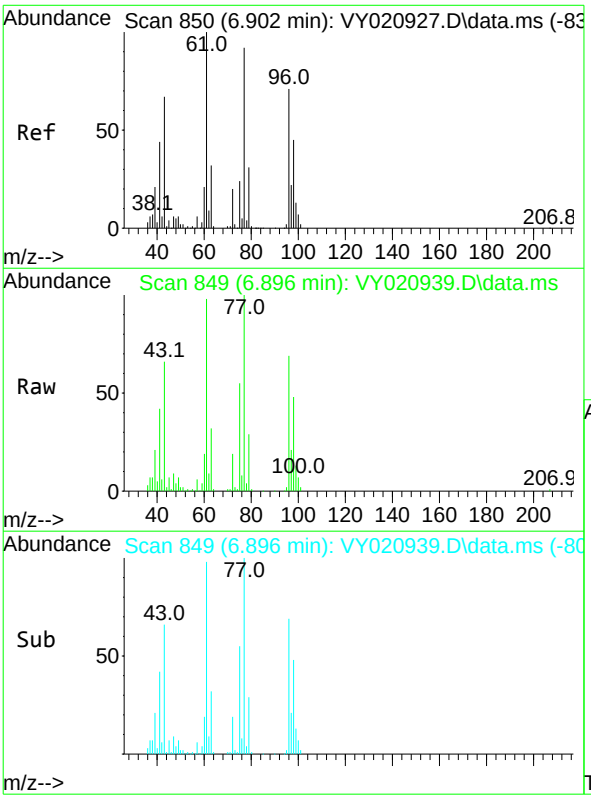
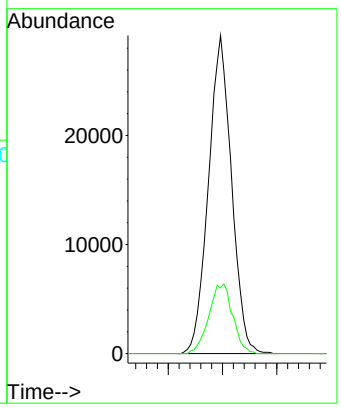


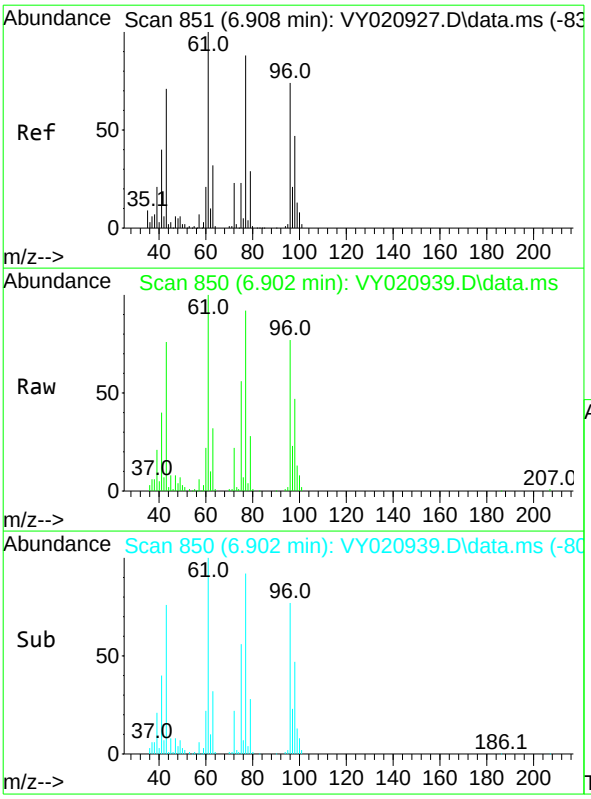




#26
2,2-Dichloropropane
Concen: 21.258 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 77 Resp: 86153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.6 | 11.7 | 35.1 |






#27
cis-1,2-Dichloroethene
Concen: 21.437 ug/l
RT: 6.902 min Scan# 85
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 96 Resp: 60307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.1 | 0.0 | 275.2 |
| 98 | 64.2 | 0.0 | 129.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
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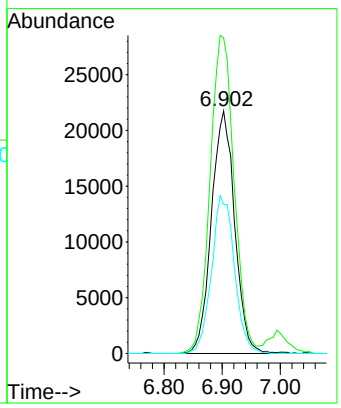
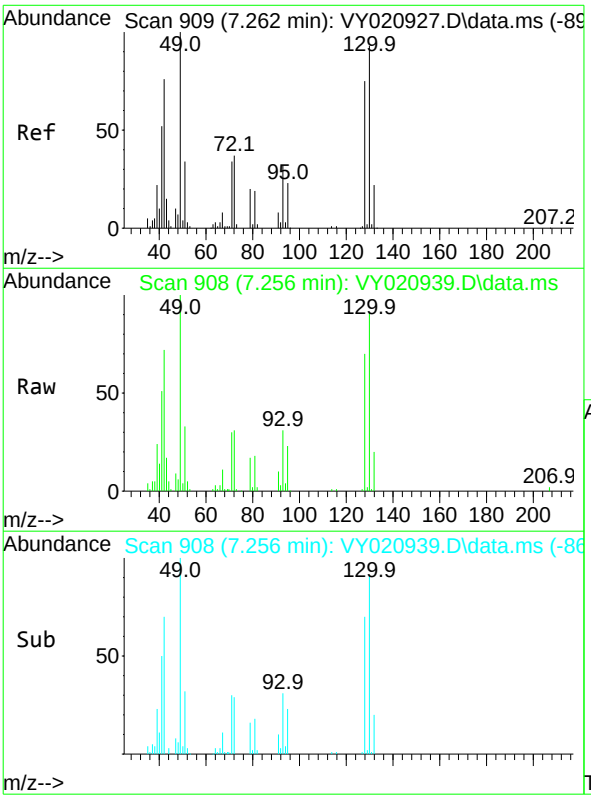
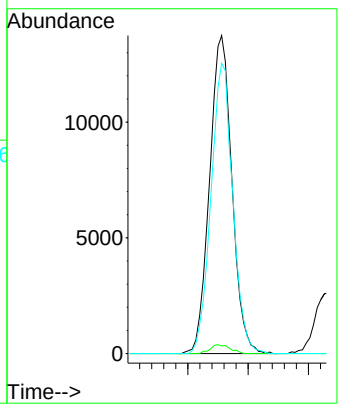


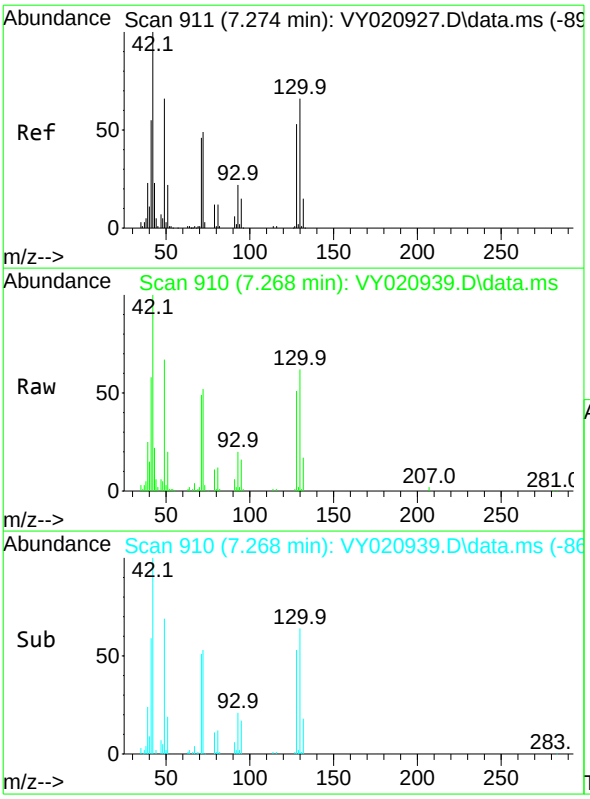




#28
Bromochloromethane
Concen: 21.362 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 49 Resp: 35375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.5 | 0.0 | 4.6 |
| 130 | 89.2 | 72.6 | 109.0 |






#29
Tetrahydrofuran
Concen: 121.924 ug/l
RT: 7.268 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

Tgt Ion: 42 Resp: 42351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.6 | 38.8 | 58.2 |
| 71 | 47.2 | 36.4 | 54.6 |

**Manual Integrations**
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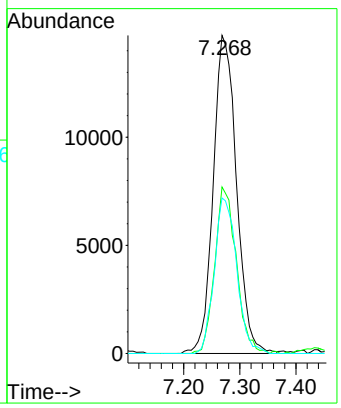
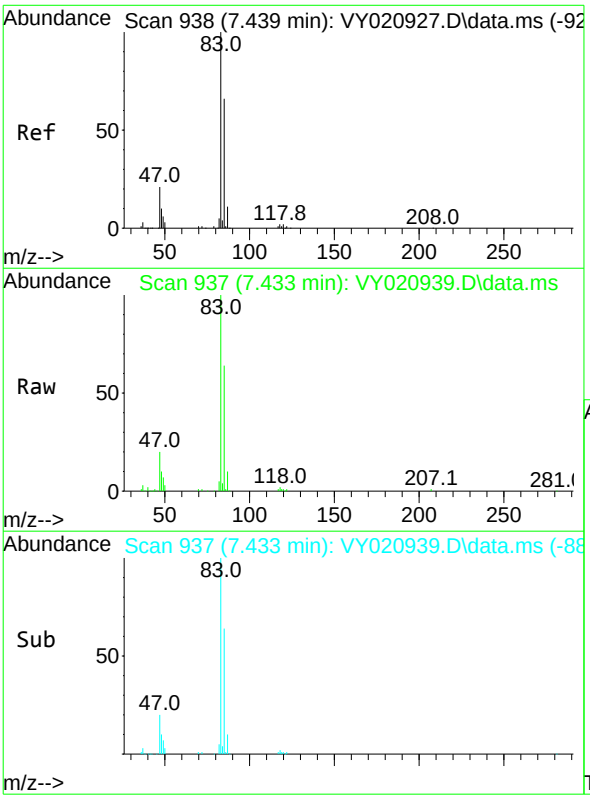
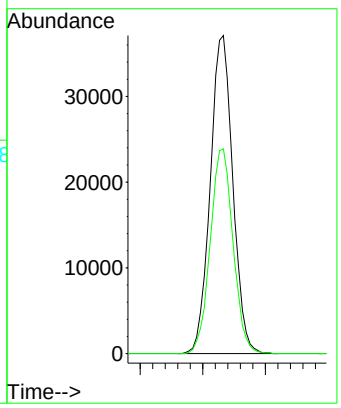


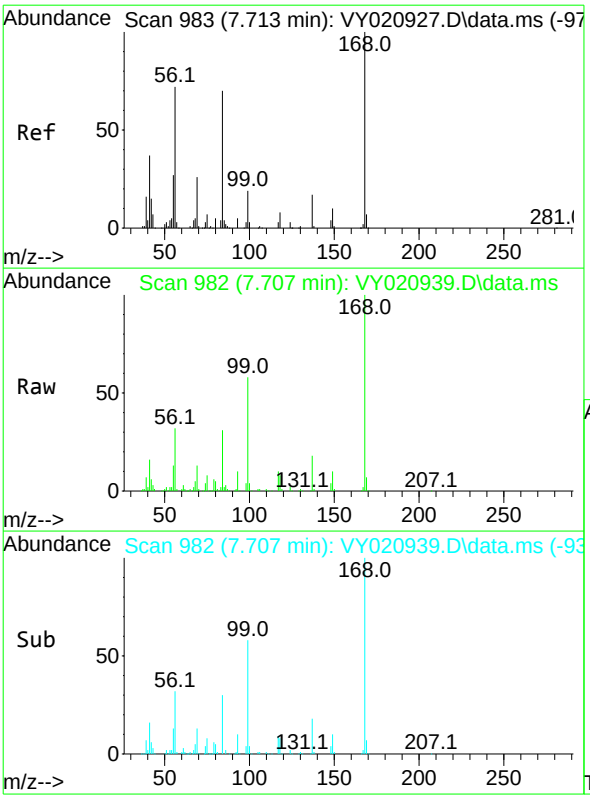




#30
Chloroform
Concen: 21.326 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 83 Resp: 92869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.4 | 53.0 | 79.4 |






#31
Cyclohexane
Concen: 20.995 ug/l
RT: 7.707 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

Tgt Ion: 56 Resp: 84903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 40.6 | 28.7 | 43.1 |
| 84 | 96.5 | 77.4 | 116.0 |

**Manual Integrations**
**APPROVED**

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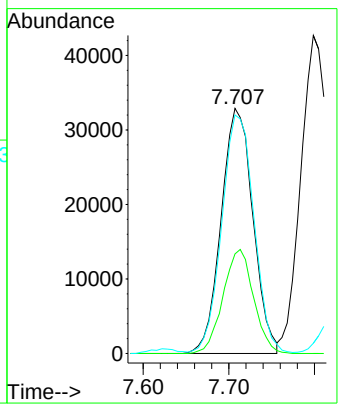
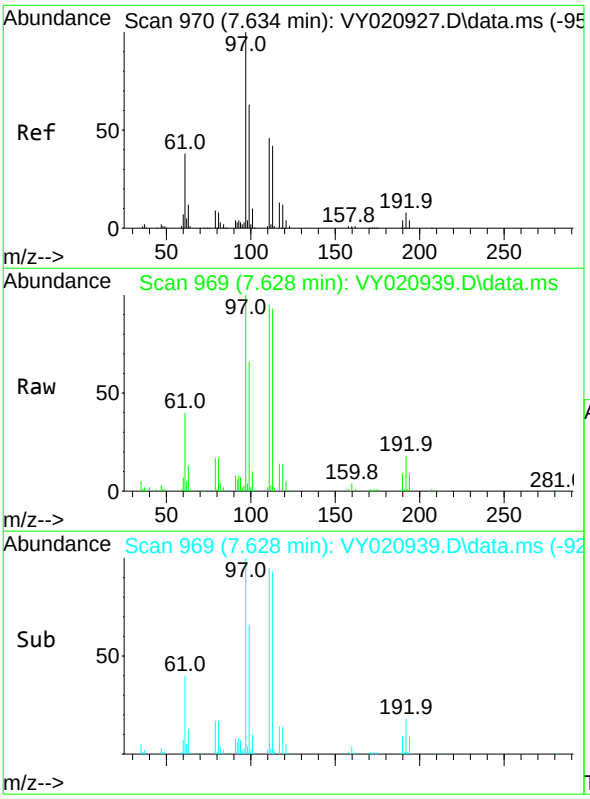
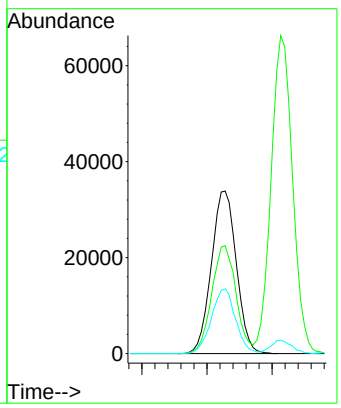


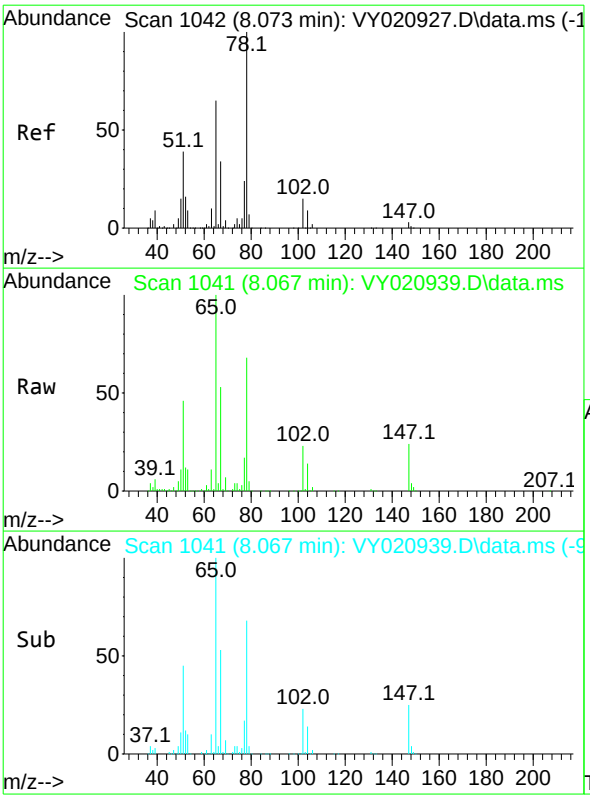




#32
1,1,1-Trichloroethane
Concen: 21.340 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 97 Resp: 90140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.9 | 51.7 | 77.5 |
| 61 | 38.5 | 30.8 | 46.2 |






#33
1,2-Dichloroethane-d4
Concen: 49.894 ug/l
RT: 8.067 min Scan# 10
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 65 Resp: 113305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.8 | 0.0 | 105.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
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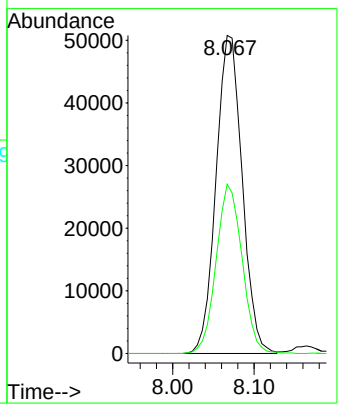
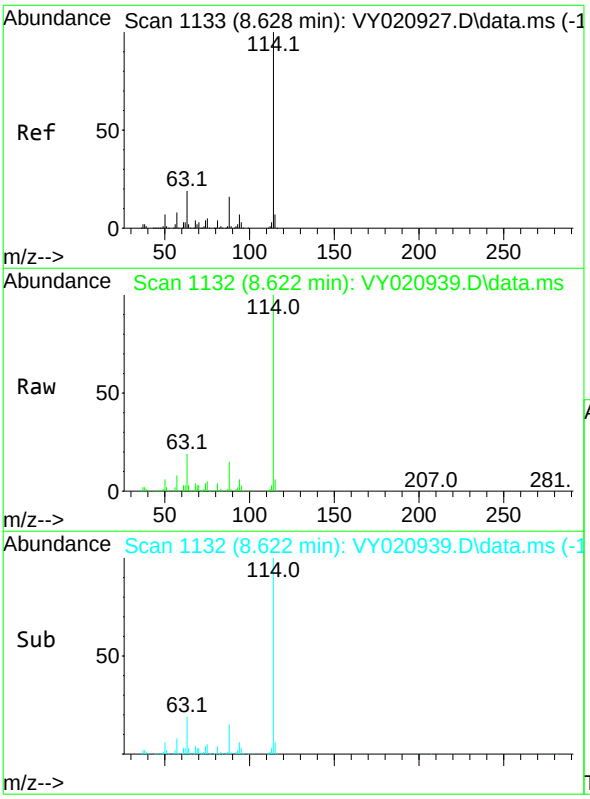
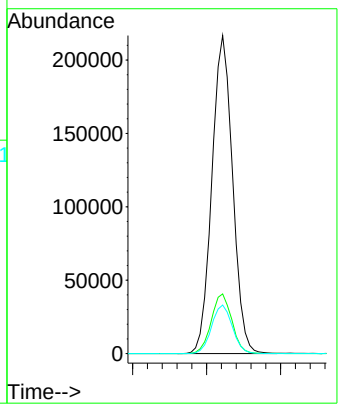


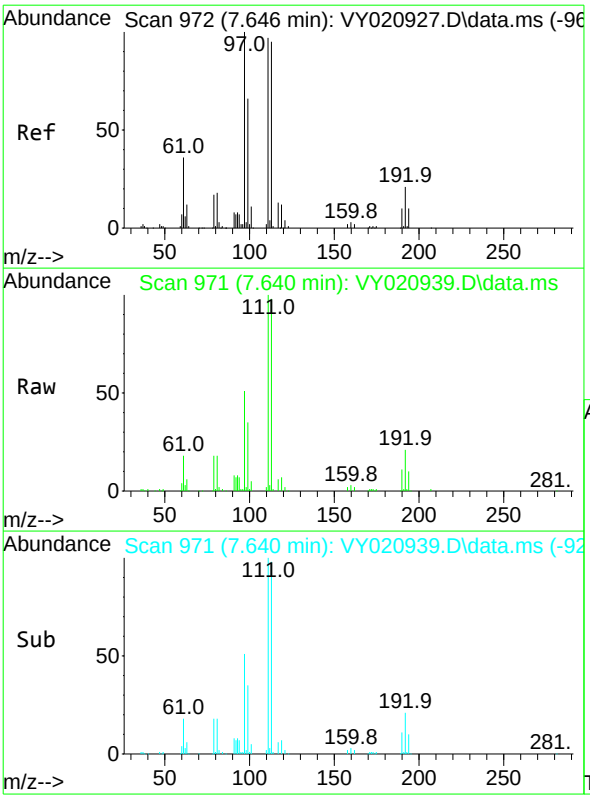




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:114 Resp: 421282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.8 | 0.0 | 38.4 |
| 88 | 15.3 | 0.0 | 31.6 |






#35
Dibromofluoromethane
Concen: 48.363 ug/l
RT: 7.640 min Scan# 97
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:113 Resp: 116966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.0 | 82.3 | 123.5 |
| 192 | 21.9 | 17.4 | 26.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
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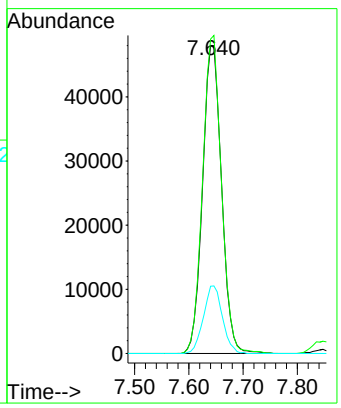
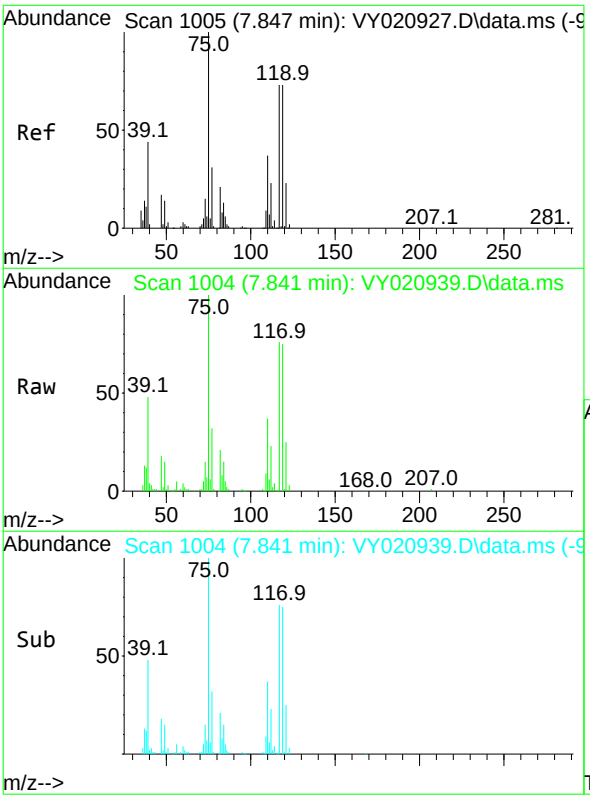
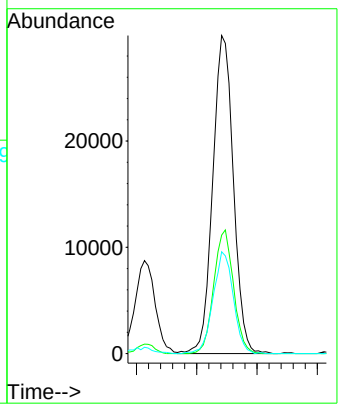


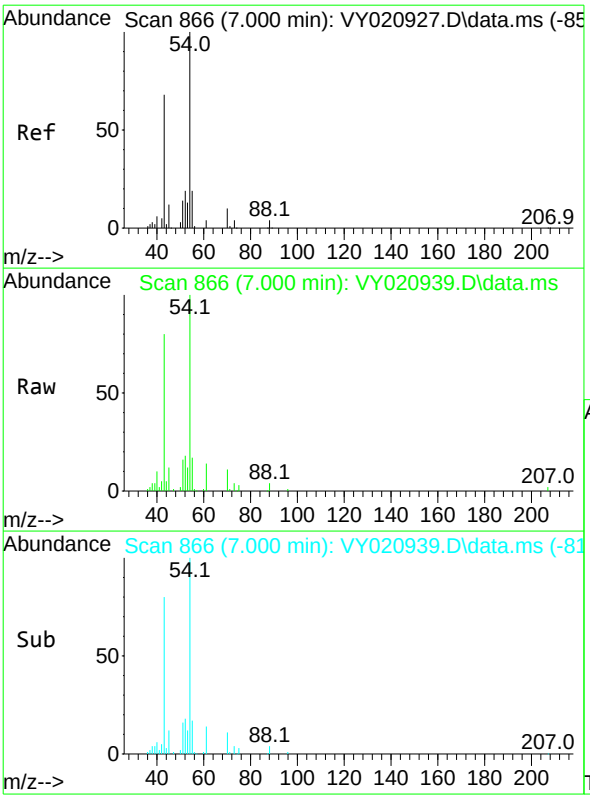




#36
1,1-Dichloropropene
Concen: 21.097 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 75 Resp: 71237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.1 | 18.5 | 55.5 |
| 77 | 31.4 | 25.0 | 37.4 |






#37
Ethyl Acetate
Concen: 23.056 ug/l
RT: 7.000 min Scan# 86
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 43 Resp: 30206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 16.0 | 12.1 | 18.1 |
| 70 | 11.6 | 9.5 | 14.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
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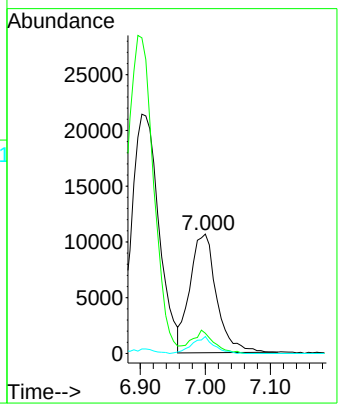
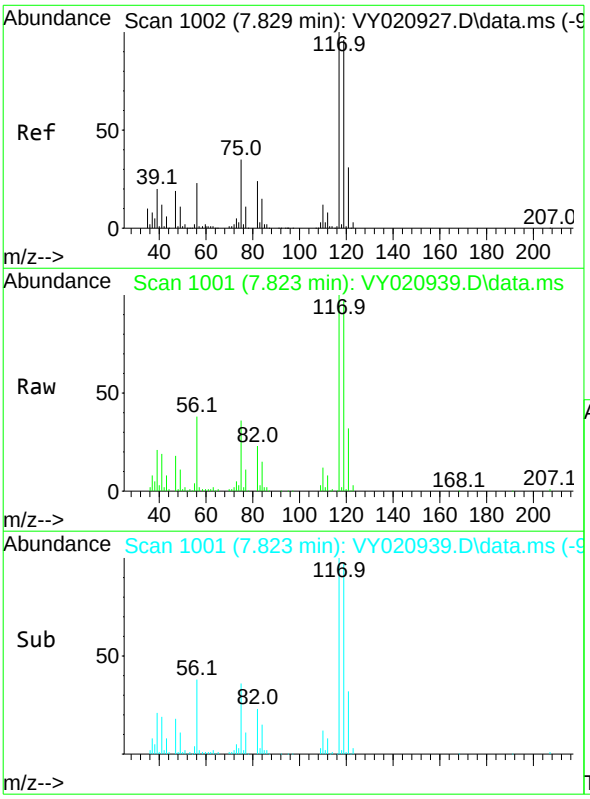
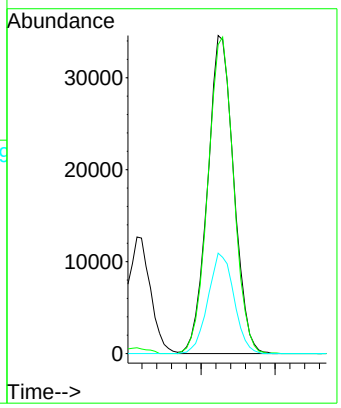


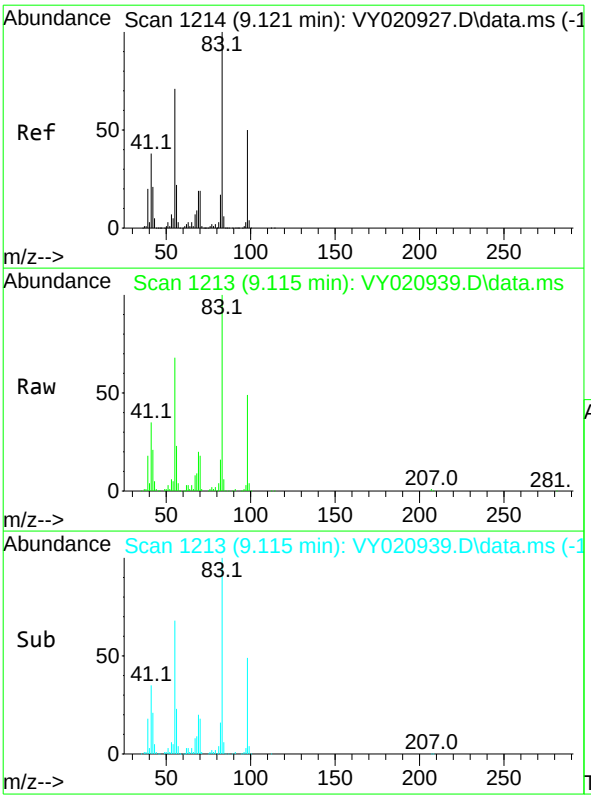




#38
Carbon Tetrachloride
Concen: 20.855 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:117 Resp: 84923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.2 | 76.5 | 114.7 |
| 121 | 31.6 | 25.0 | 37.4 |






#39
Methylcyclohexane
Concen: 20.969 ug/l
RT: 9.115 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

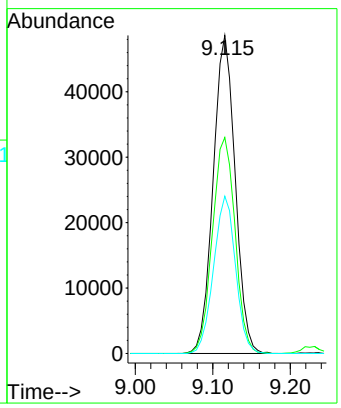
Tgt Ion: 83 Resp: 95859

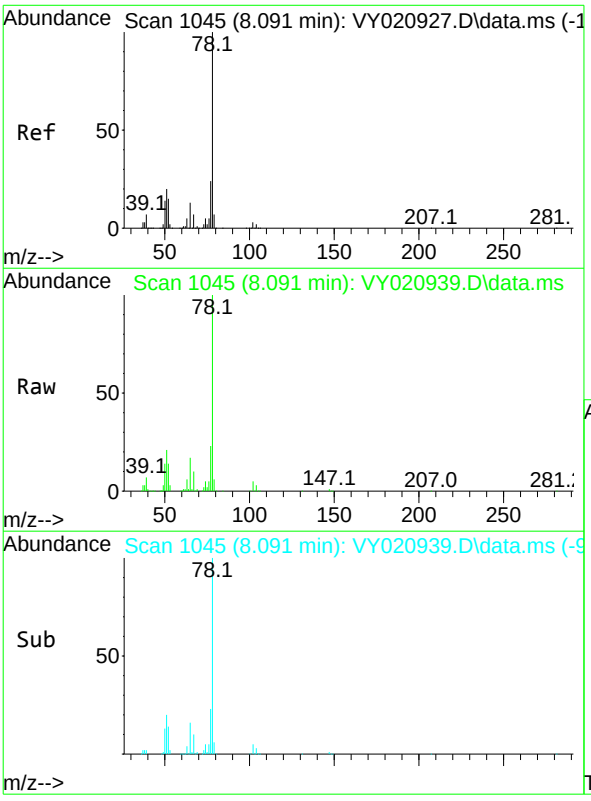
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 67.9 | 57.0 | 85.4 |
| 98 | 49.5 | 40.1 | 60.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

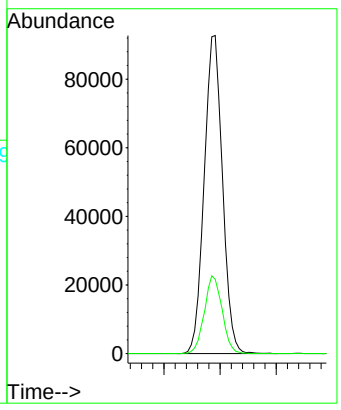


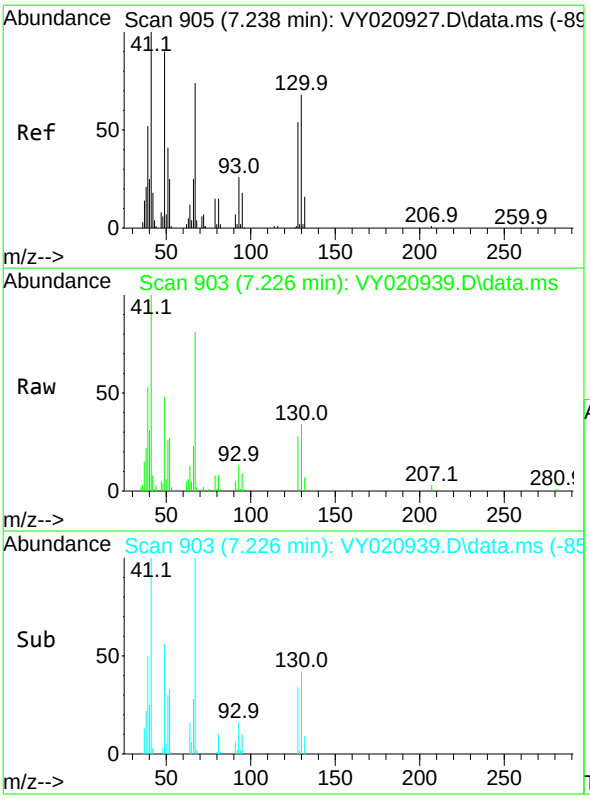




#40
Benzene
Concen: 21.178 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 78 Resp: 209800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.3 | 19.0 | 28.6 |






#41
Methacrylonitrile
Concen: 22.209 ug/l
RT: 7.226 min Scan# 90
Delta R.T. -0.012 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

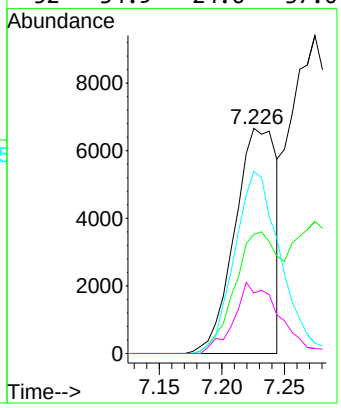
Tgt Ion: 41 Resp: 15370

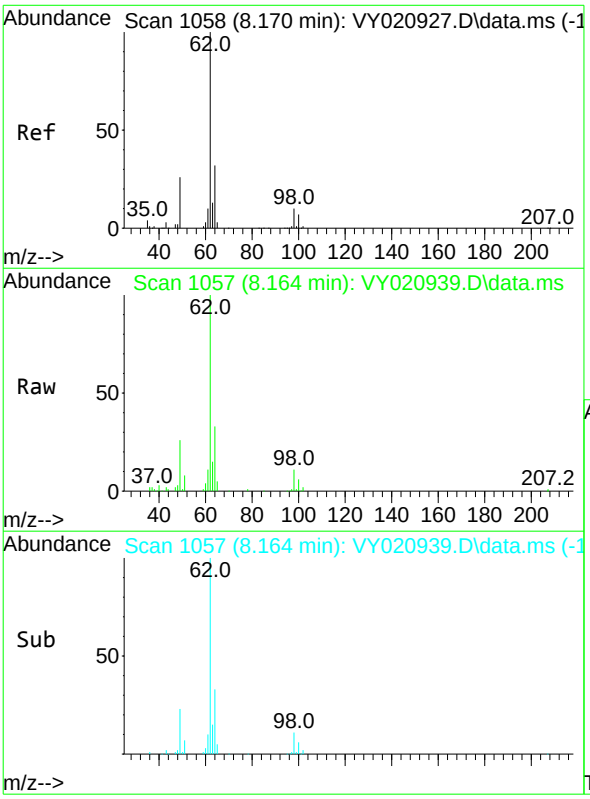
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 59.6 | 46.4 | 69.6 |
| 67 | 90.1 | 66.7 | 100.1 |
| 52 | 34.9 | 24.6 | 37.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

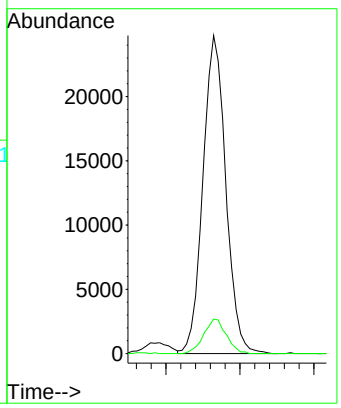


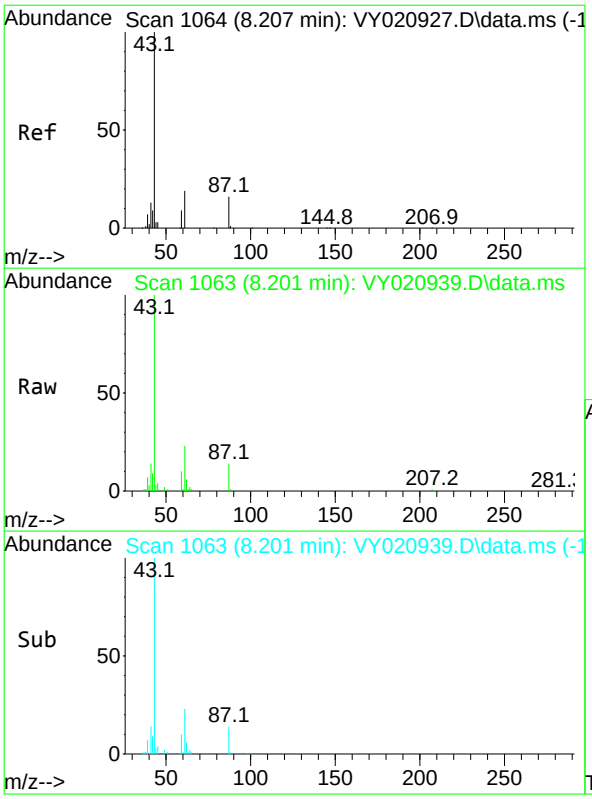




#42
1,2-Dichloroethane
Concen: 21.539 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 62 Resp: 53093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.7 | 0.0 | 19.8 |






#43
Isopropyl Acetate
Concen: 23.436 ug/l
RT: 8.201 min Scan# 10
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 43 Resp: 58221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 32.4 | 26.0 | 39.0 |
| 87 | 15.5 | 12.4 | 18.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
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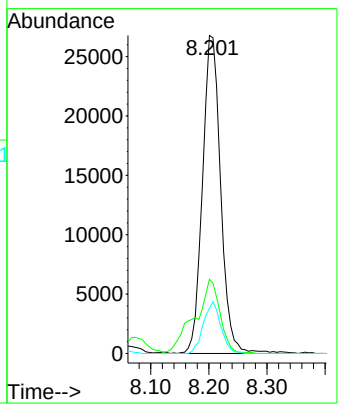
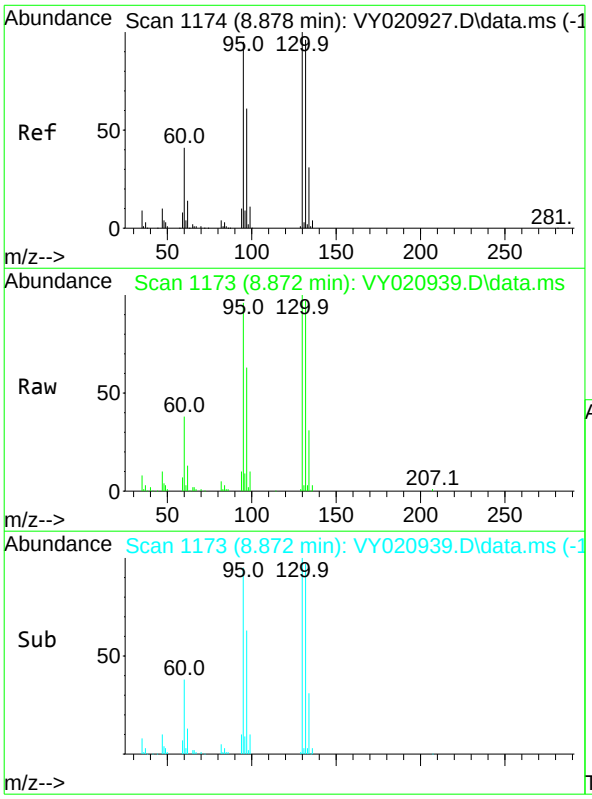
Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

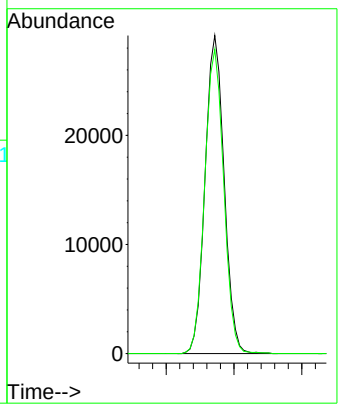


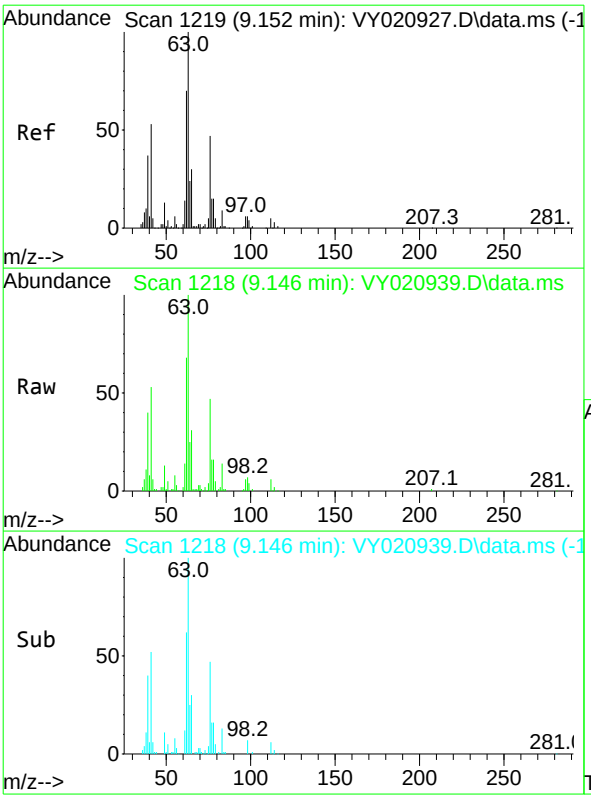




#44
Trichloroethene
Concen: 21.131 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:130 Resp: 56869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.6 | 0.0 | 189.4 |






#45
1,2-Dichloropropane
Concen: 21.329 ug/l
RT: 9.146 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 63 Resp: 46640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.7 | 23.9 | 35.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 01/28/2025
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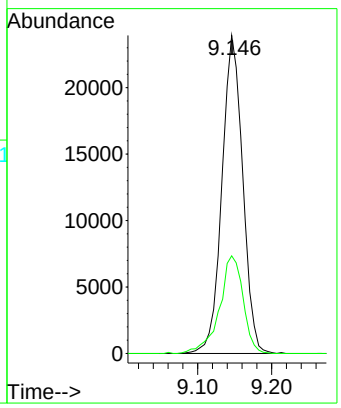
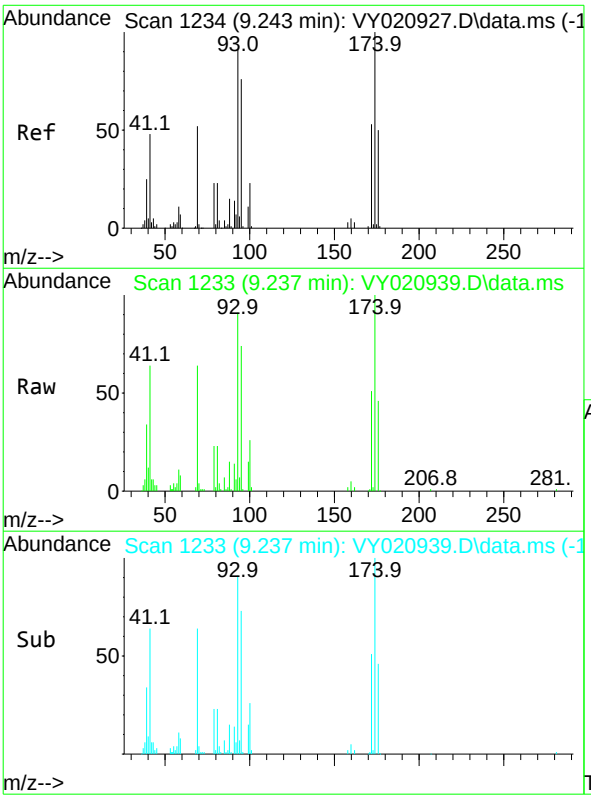
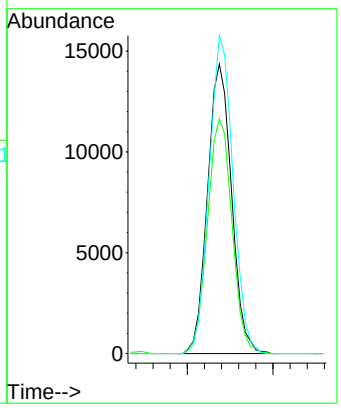


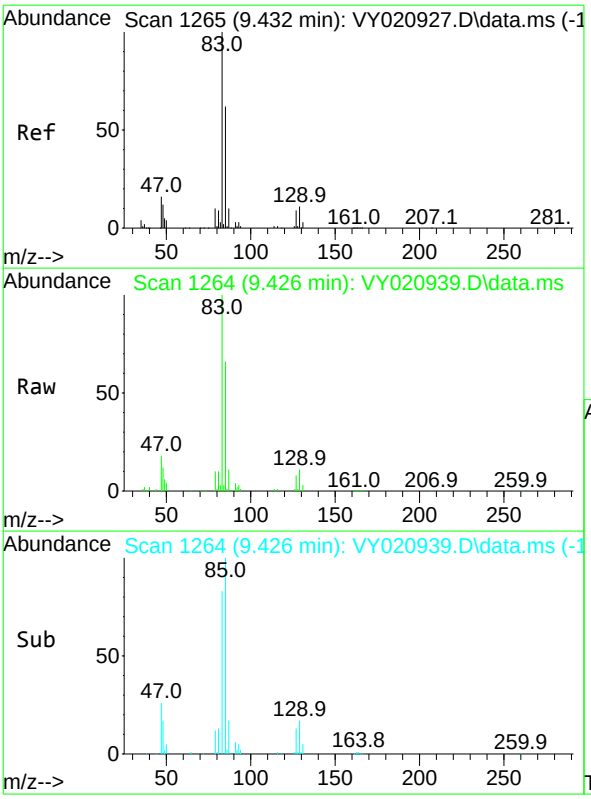




#46
Dibromomethane
Concen: 22.543 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 93 Resp: 28025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.7 | 66.2 | 99.2 |
| 174 | 108.9 | 87.0 | 130.4 |






#47
Bromodichloromethane
Concen: 21.125 ug/l
RT: 9.426 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

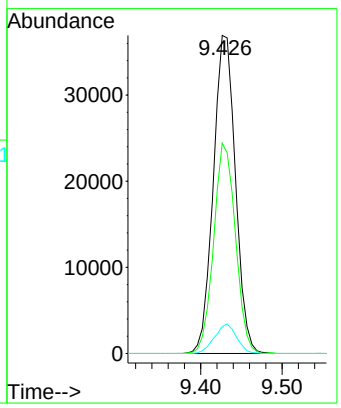
Tgt Ion: 83 Resp: 69877

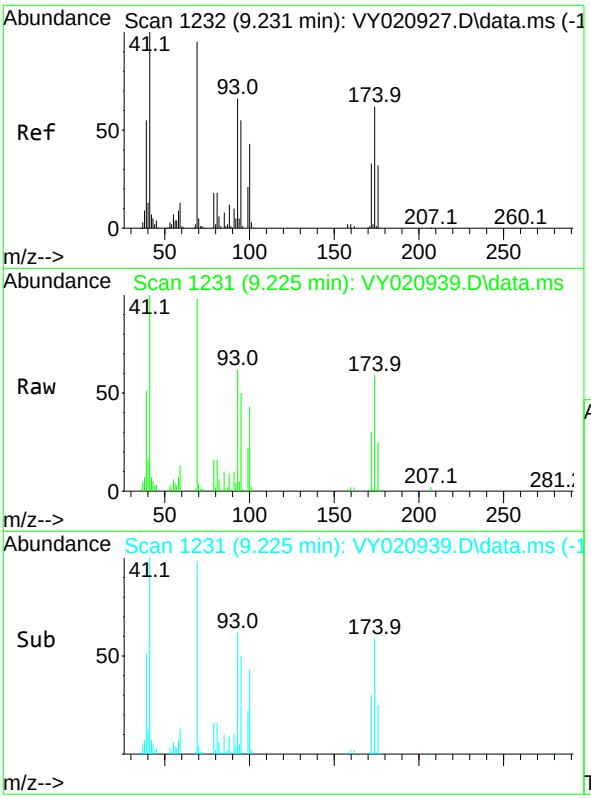
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.1 | 49.3 | 73.9 |
| 127 | 8.5 | 7.4 | 11.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

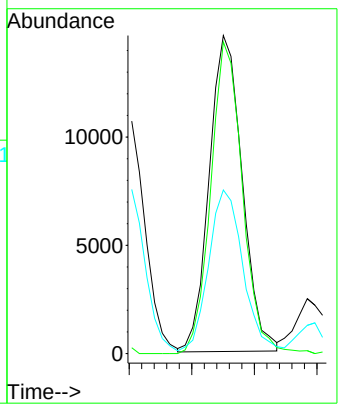


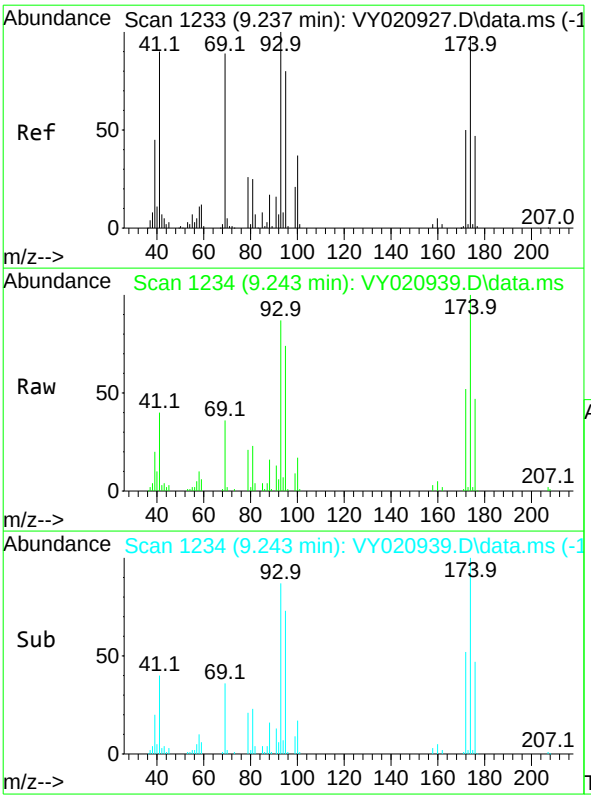




#48
Methyl methacrylate
Concen: 22.856 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 41 Resp: 26785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 94.7 | 77.0 | 115.4 |
| 39 | 52.8 | 41.1 | 61.7 |






#49
1,4-Dioxane
Concen: 469.849 ug/l
RT: 9.243 min Scan# 12
Delta R.T. 0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

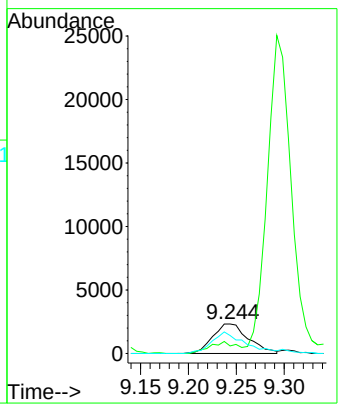
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

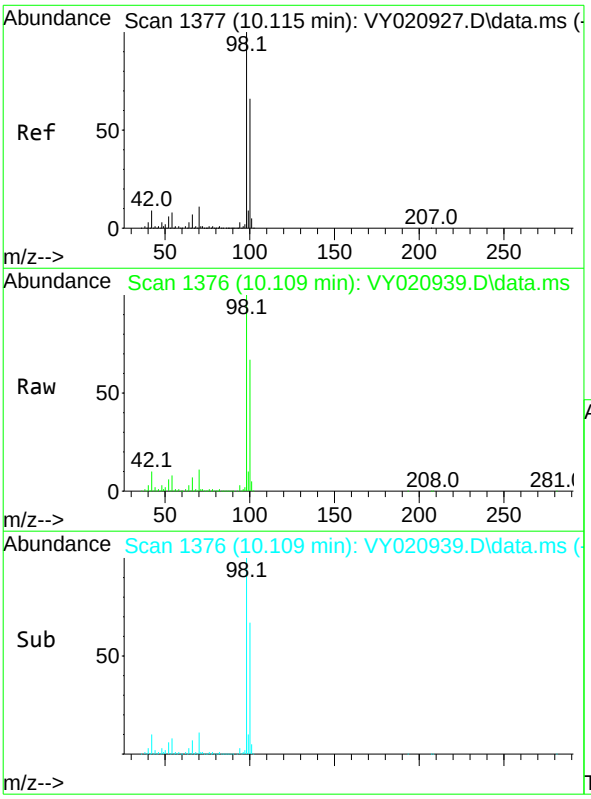
Tgt Ion: 88 Resp: 6014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.0 | 23.1 | 34.7 |
| 58 | 73.0 | 49.0 | 73.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

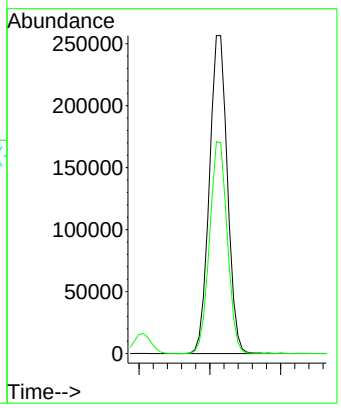


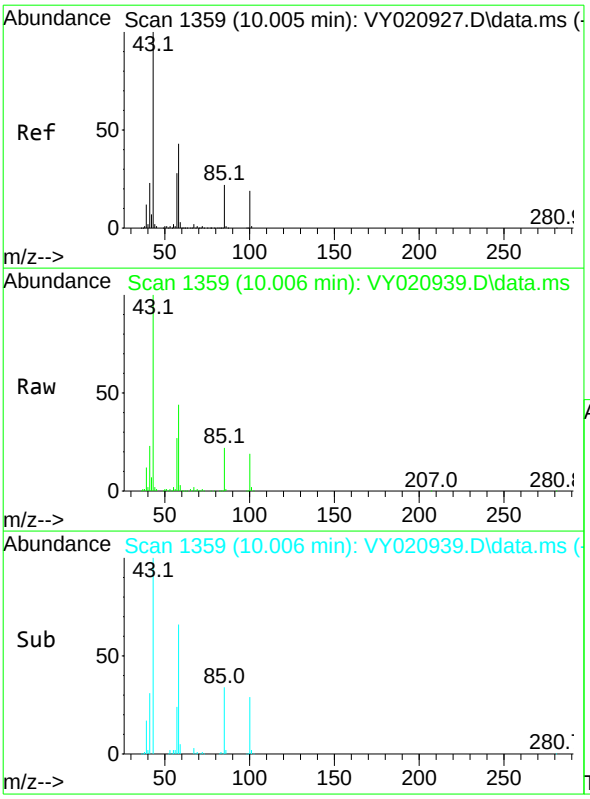




#50
Toluene-d8
Concen: 48.271 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 98 Resp: 452829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.7 | 52.3 | 78.5 |






#51
4-Methyl-2-Pentanone
Concen: 119.182 ug/l
RT: 10.006 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 43 Resp: 149292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.2 | 33.7 | 50.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
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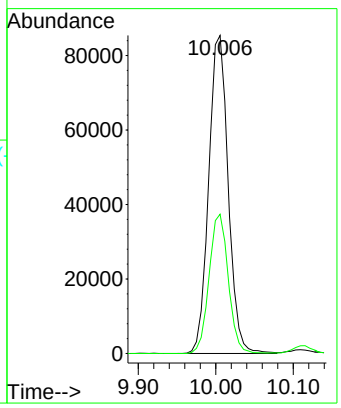
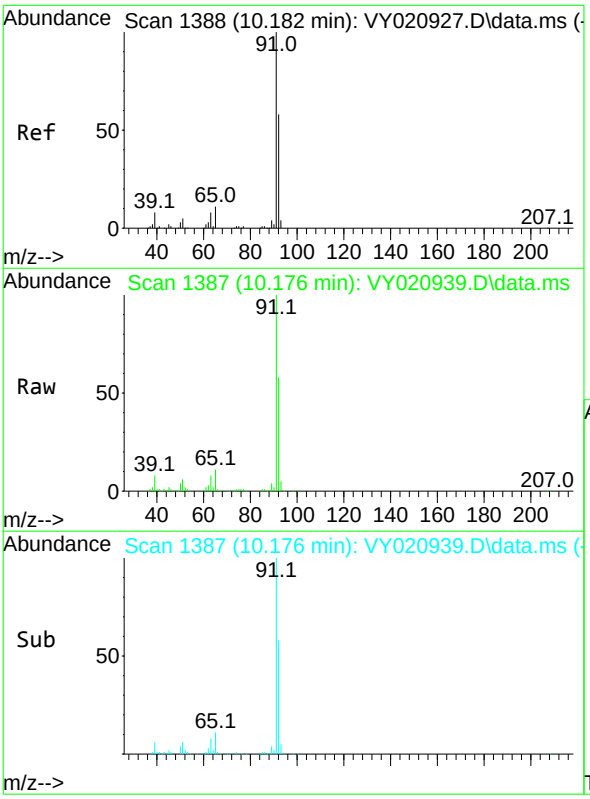
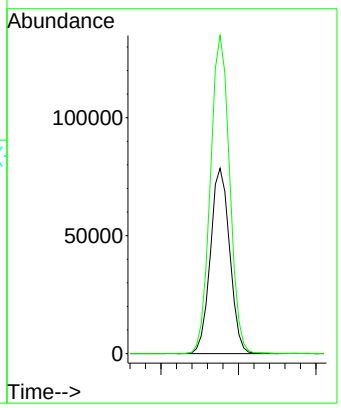


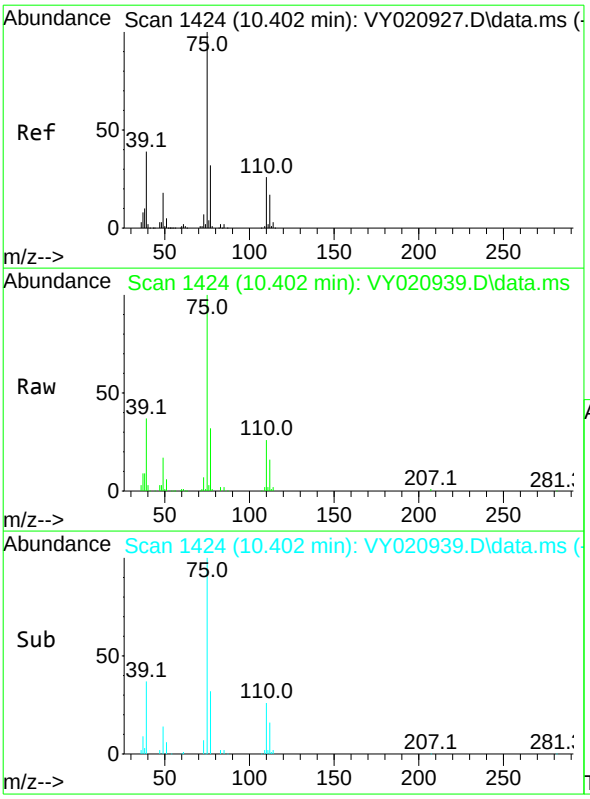




#52
Toluene
Concen: 21.339 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 92 Resp: 135955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.6 | 137.3 | 205.9 |






#53
t-1,3-Dichloropropene
Concen: 22.037 ug/l
RT: 10.402 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 75 Resp: 66836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.2 | 25.4 | 38.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
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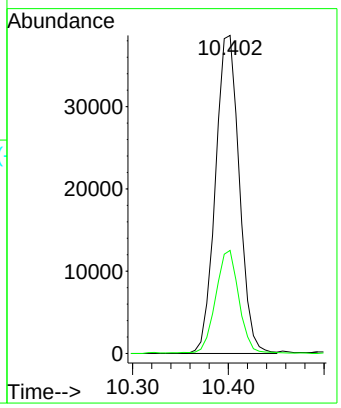
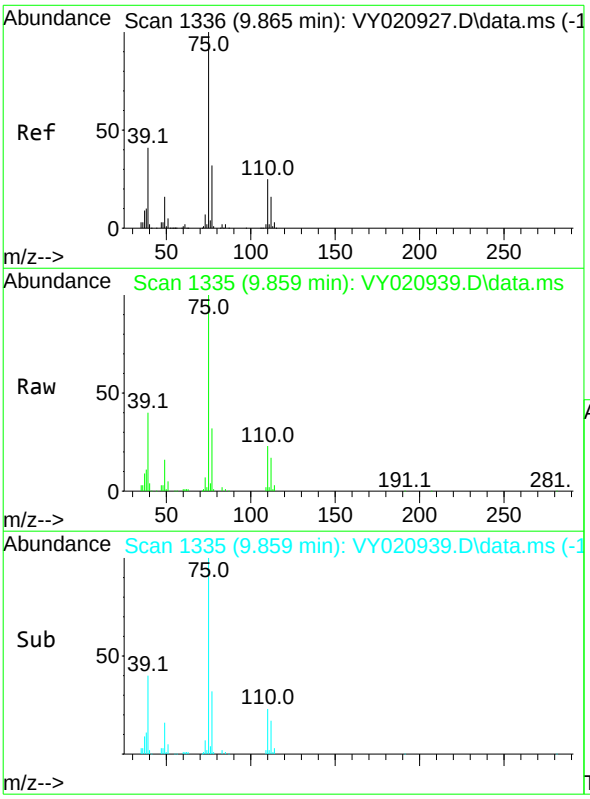
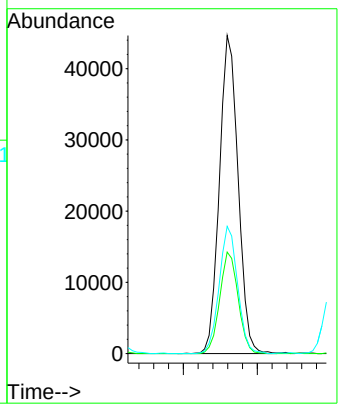


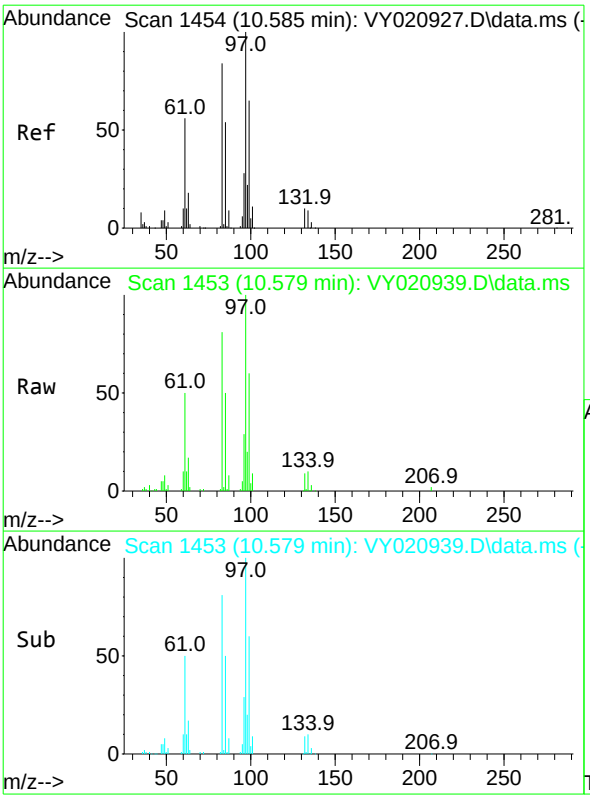




#54
cis-1,3-Dichloropropene
Concen: 21.653 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 75 Resp: 78415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.7 | 38.5 |
| 39 | 40.0 | 32.8 | 49.2 |






#55
1,1,2-Trichloroethane
Concen: 22.587 ug/l
RT: 10.579 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 97 Resp: 37955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 81.1 | 67.0 | 100.6 |
| 85 | 50.0 | 43.1 | 64.7 |
| 99 | 60.0 | 52.3 | 78.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
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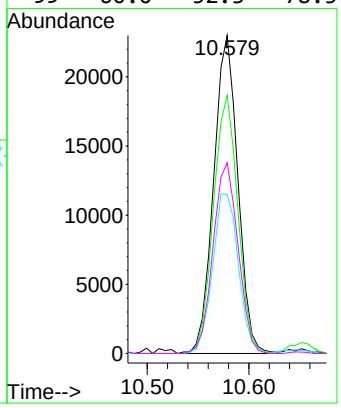
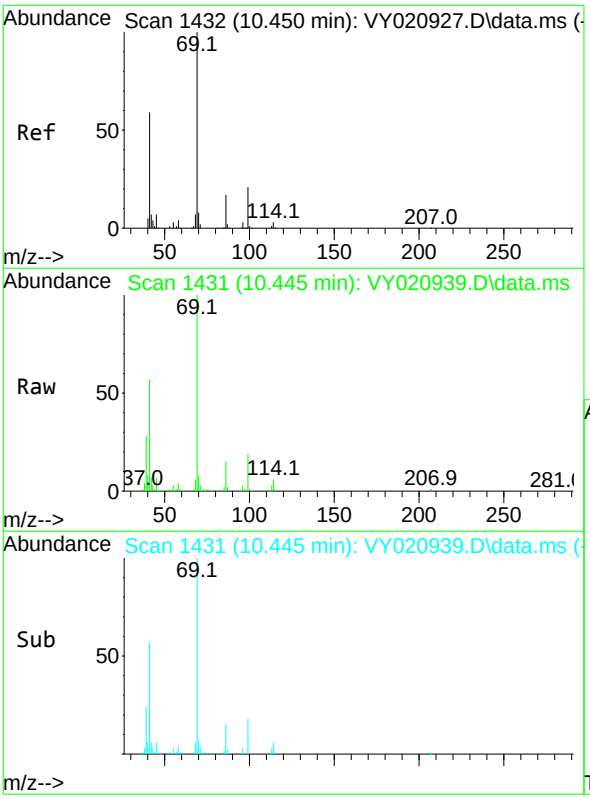
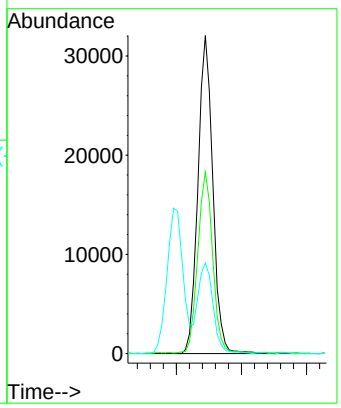


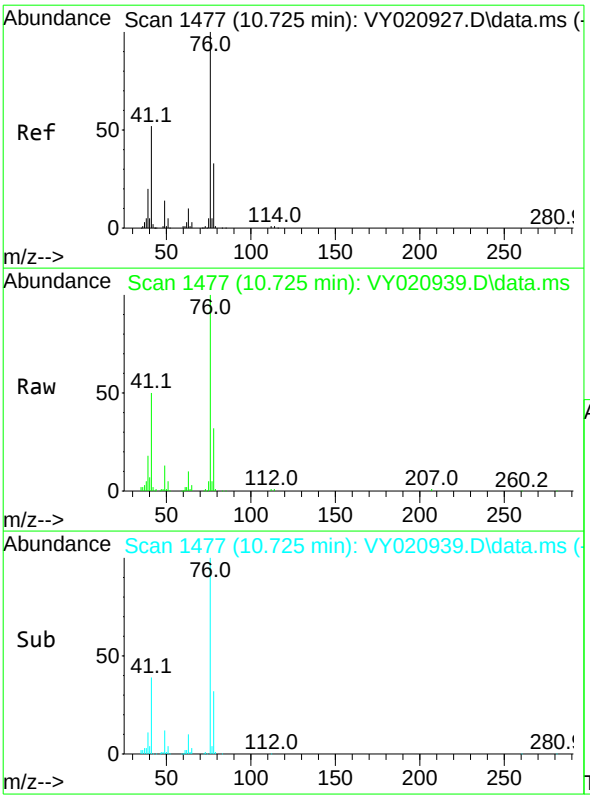




#56
Ethyl methacrylate
Concen: 23.086 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 69 Resp: 50841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 58.1 | 46.6 | 70.0 |
| 39 | 30.4 | 23.9 | 35.9 |






#57
1,3-Dichloropropane
Concen: 22.109 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

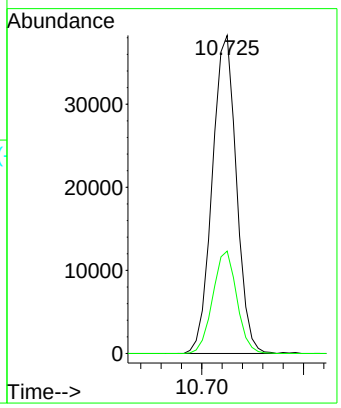
Tgt Ion: 76 Resp: 63115

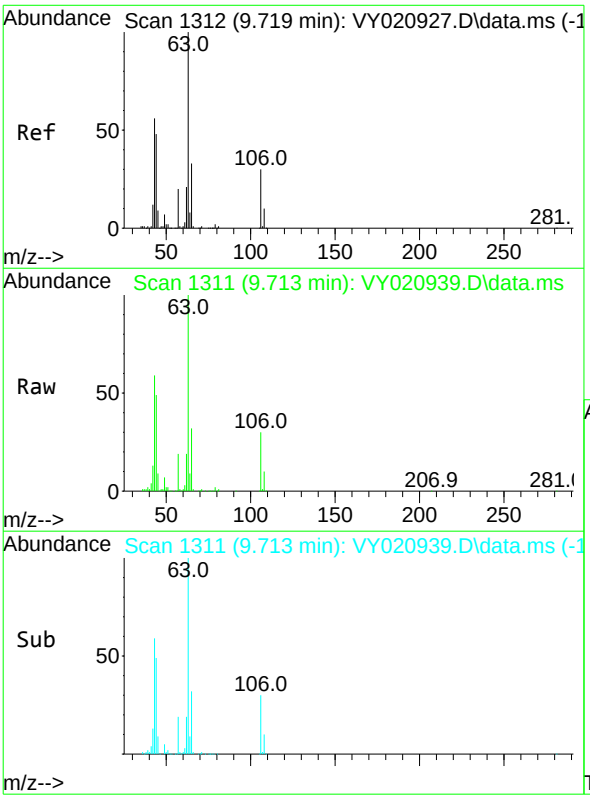
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.1 | 26.2 | 39.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

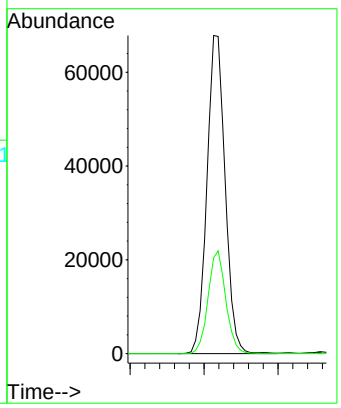


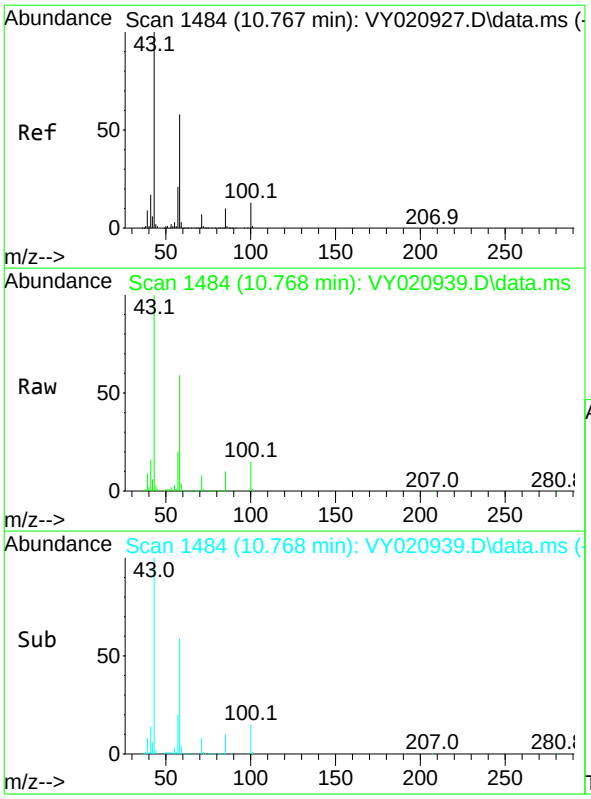




#58
2-Chloroethyl Vinyl ether
Concen: 115.673 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 63 Resp: 115619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 31.4 | 24.7 | 37.1 |






#59
2-Hexanone
Concen: 121.392 ug/l
RT: 10.768 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

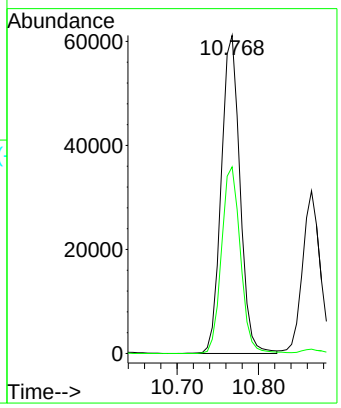
Tgt Ion: 43 Resp: 97780

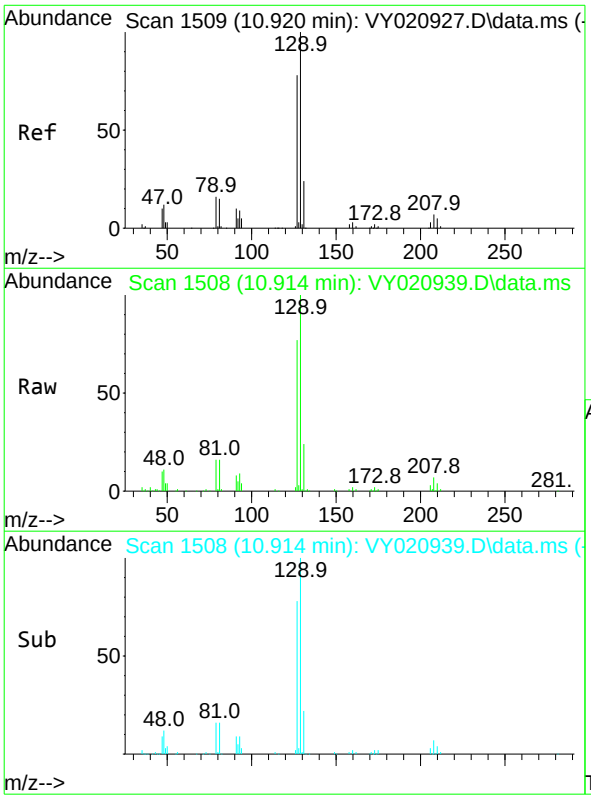
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.5 | 29.9 | 89.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

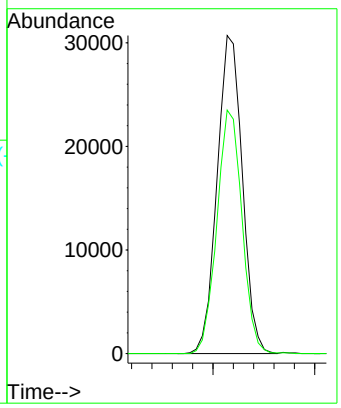


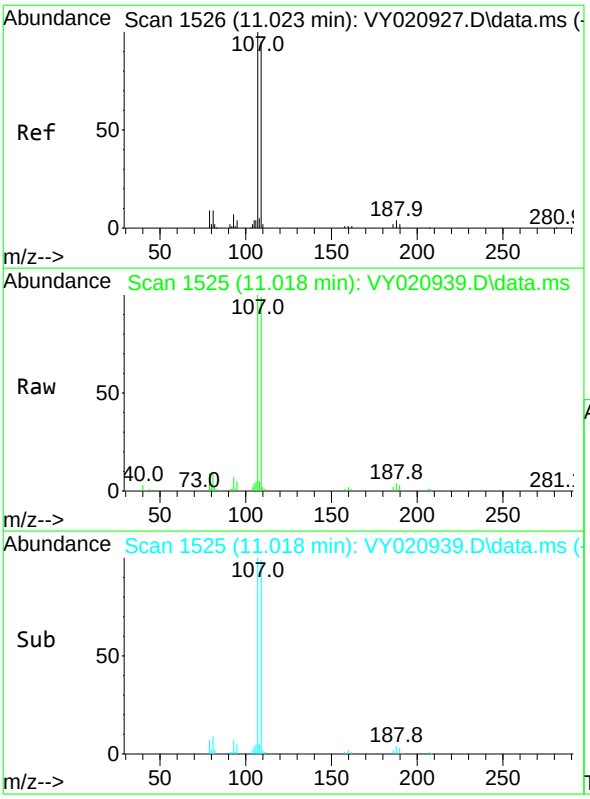




#60
Dibromochloromethane
Concen: 22.348 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:129 Resp: 52852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.2 | 39.2 | 117.6 |






#61
1,2-Dibromoethane
Concen: 22.541 ug/l
RT: 11.018 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

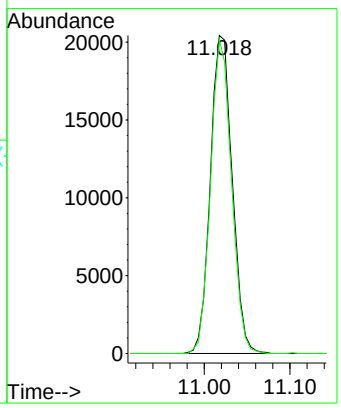
Tgt Ion:107 Resp: 36229

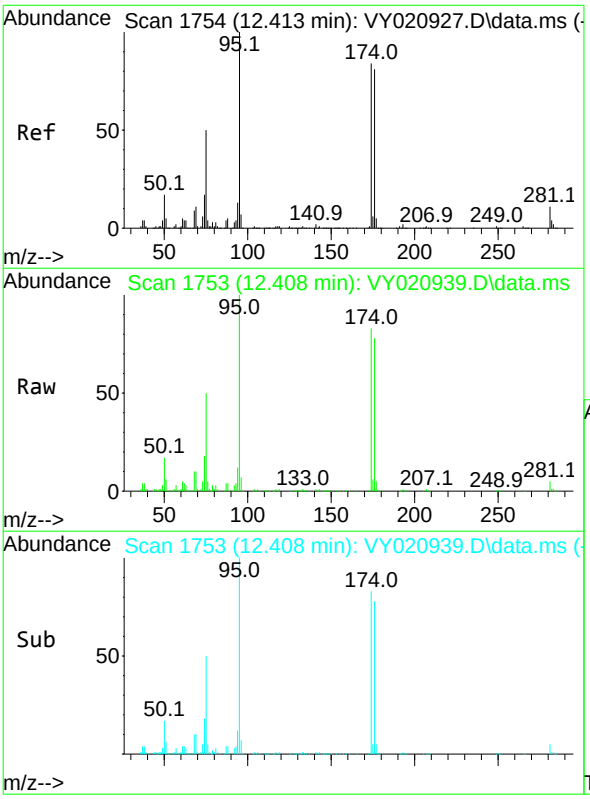
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.3 | 76.3 | 114.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

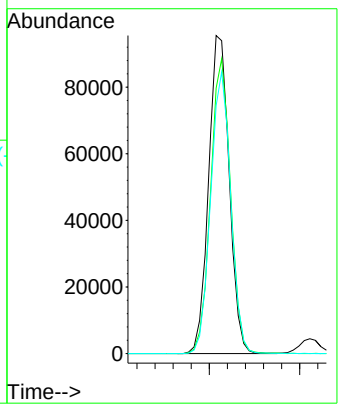


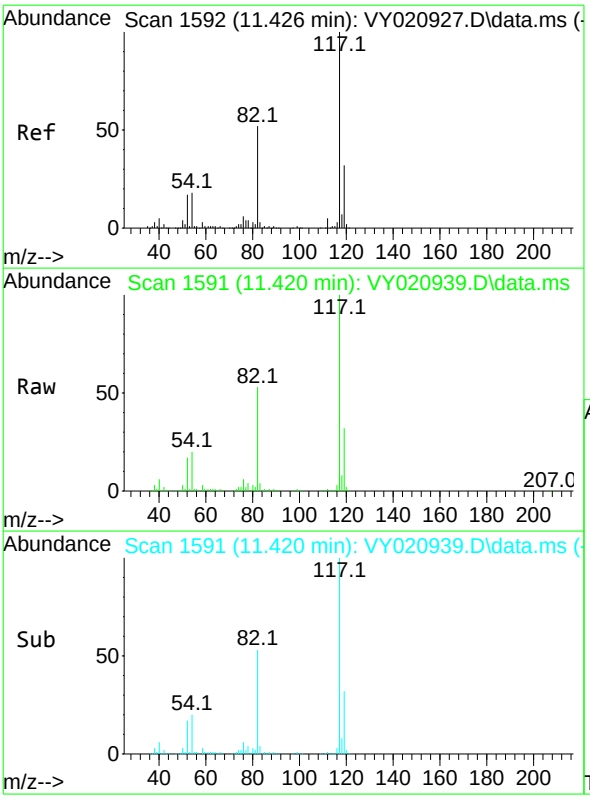




#62
4-Bromofluorobenzene
Concen: 48.345 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 95 Resp: 150937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 89.9 | 0.0 | 177.4 |
| 176 | 86.4 | 0.0 | 172.2 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

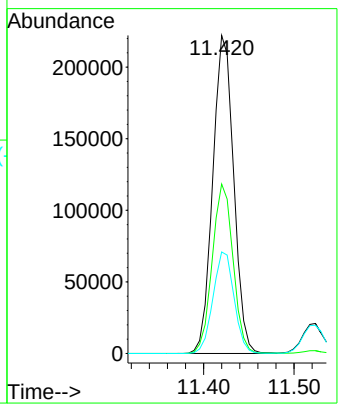
Tgt Ion:117 Resp: 357449

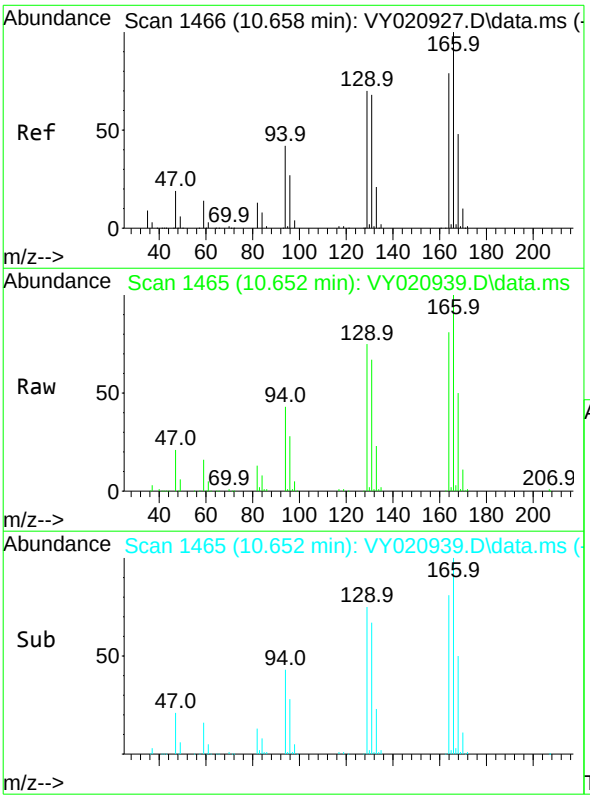
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.3 | 41.8 | 62.8 |
| 119 | 31.9 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

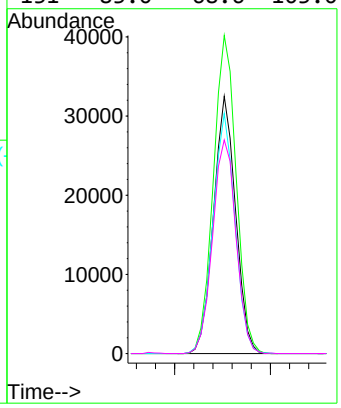


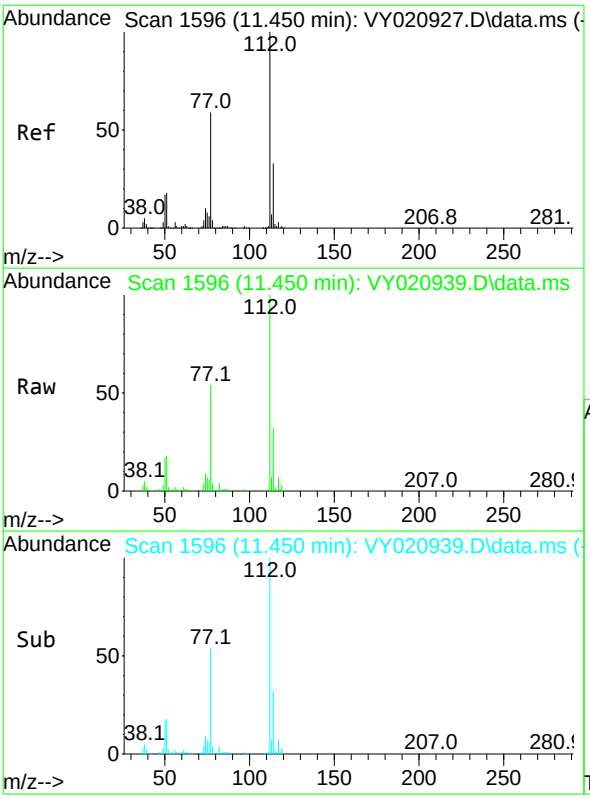




#64
Tetrachloroethene
Concen: 20.956 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:164 Resp: 52128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 123.6 | 101.0 | 151.6 |
| 129 | 93.3 | 70.8 | 106.2 |
| 131 | 83.0 | 68.6 | 103.0 |






#65
Chlorobenzene
Concen: 20.845 ug/l
RT: 11.450 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

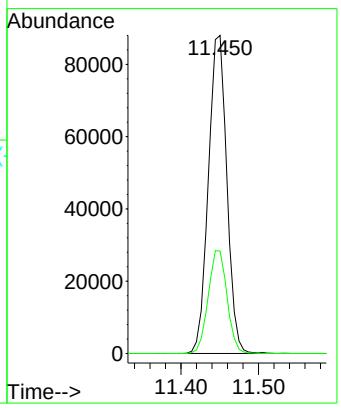
Tgt Ion:112 Resp: 145707

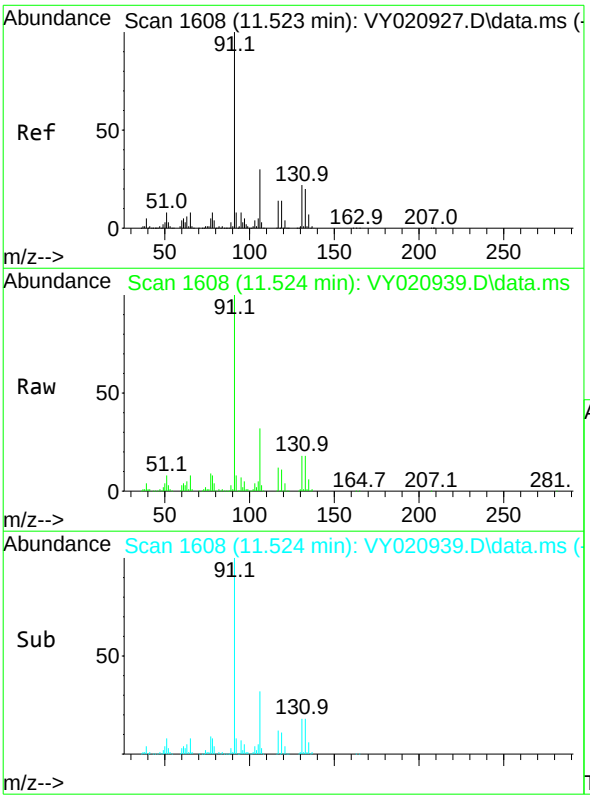
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

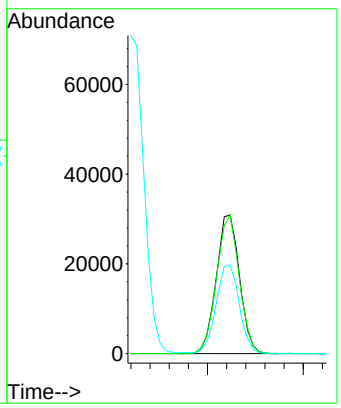


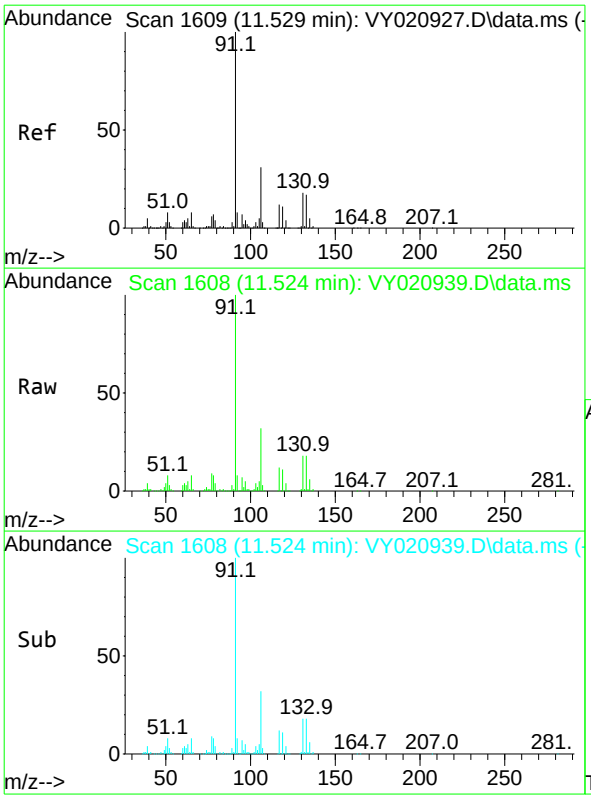




#66
1,1,1,2-Tetrachloroethane
Concen: 21.001 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:131 Resp: 52164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.0 | 47.5 | 142.6 |
| 119 | 64.0 | 31.2 | 93.6 |






#67
Ethyl Benzene
Concen: 21.124 ug/l
RT: 11.524 min Scan# 16
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

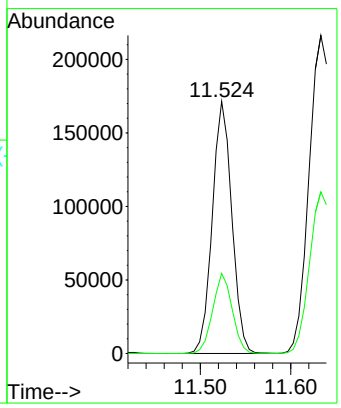
Tgt Ion: 91 Resp: 257647

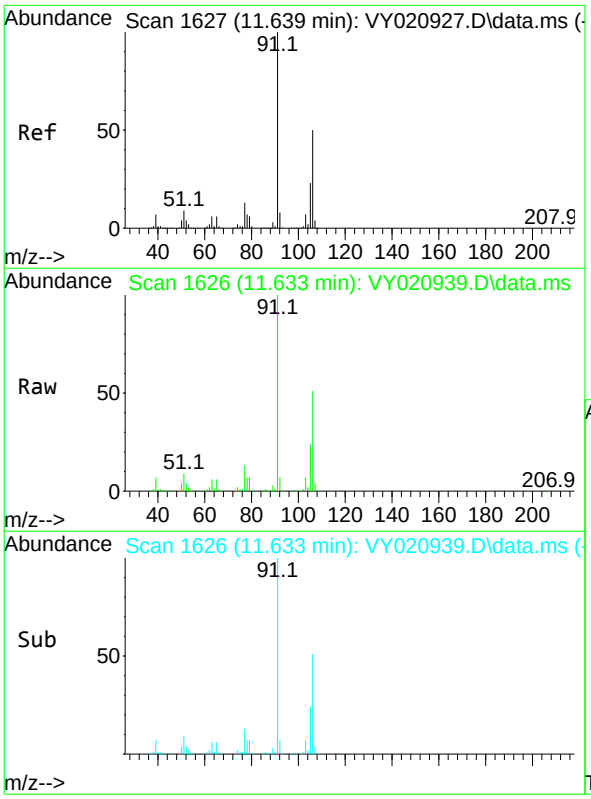
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.8 | 25.2 | 37.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

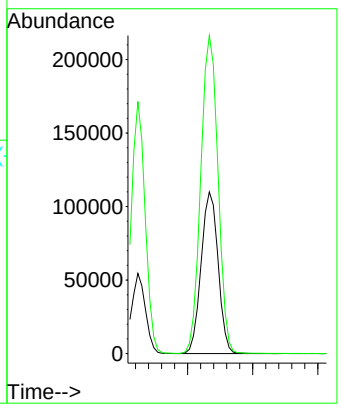


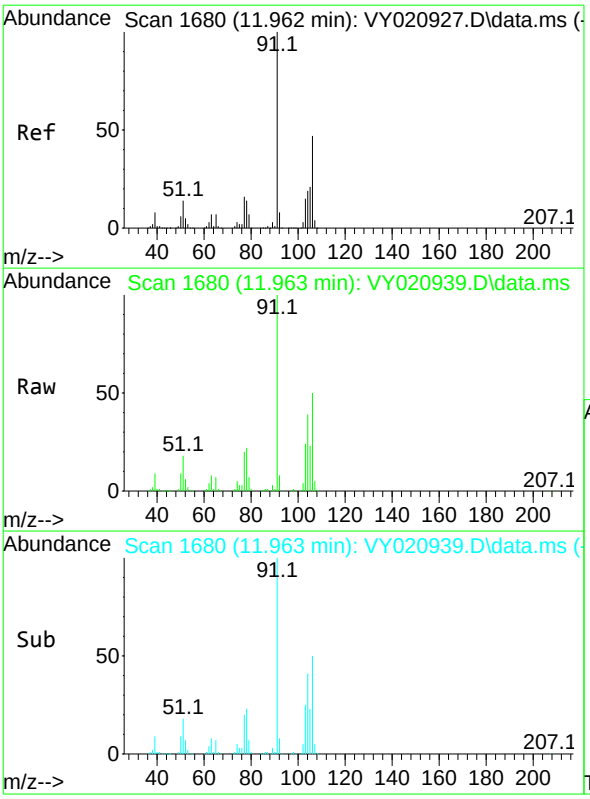




#68
m/p-Xylenes
Concen: 42.560 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:106 Resp: 198772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 199.8 | 159.5 | 239.3 |






#69
o-Xylene
Concen: 21.530 ug/l
RT: 11.963 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

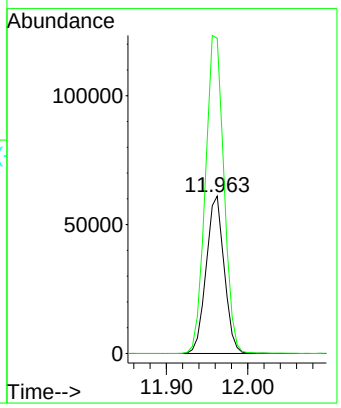
Tgt Ion:106 Resp: 93925

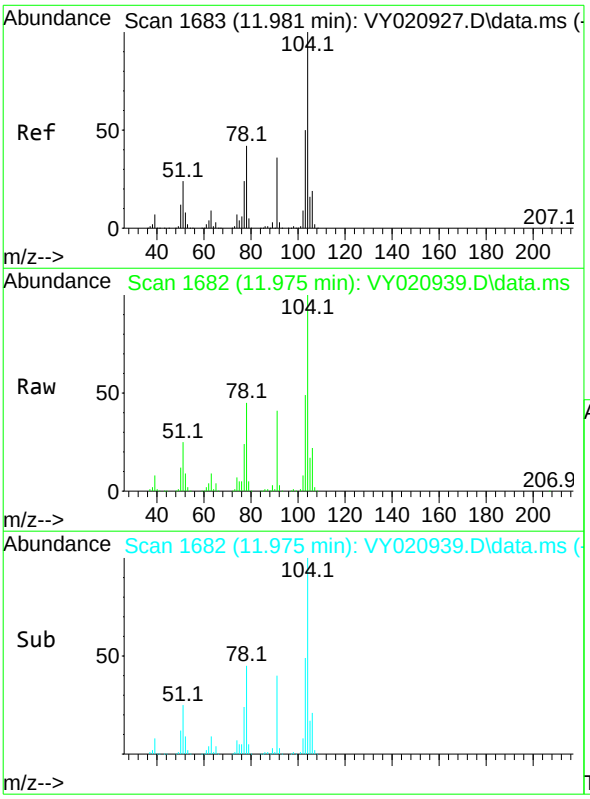
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.1 | 105.3 | 315.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

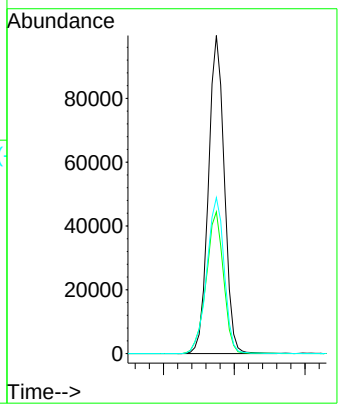


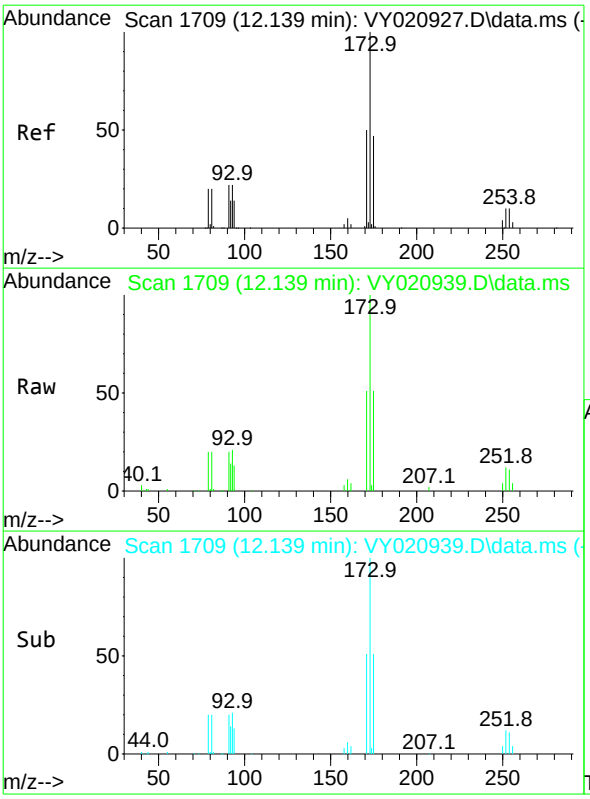




#70
Styrene
Concen: 21.762 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:104 Resp: 155592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.5 | 38.5 | 57.7 |
| 103 | 53.8 | 43.4 | 65.2 |






#71
Bromoform
Concen: 23.162 ug/l
RT: 12.139 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

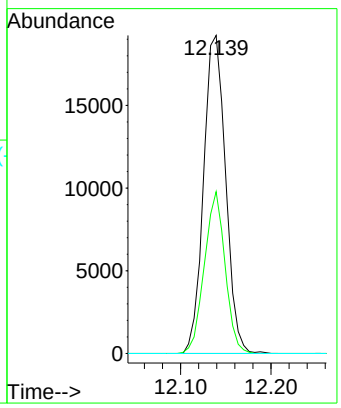
Tgt Ion:173 Resp: 32578

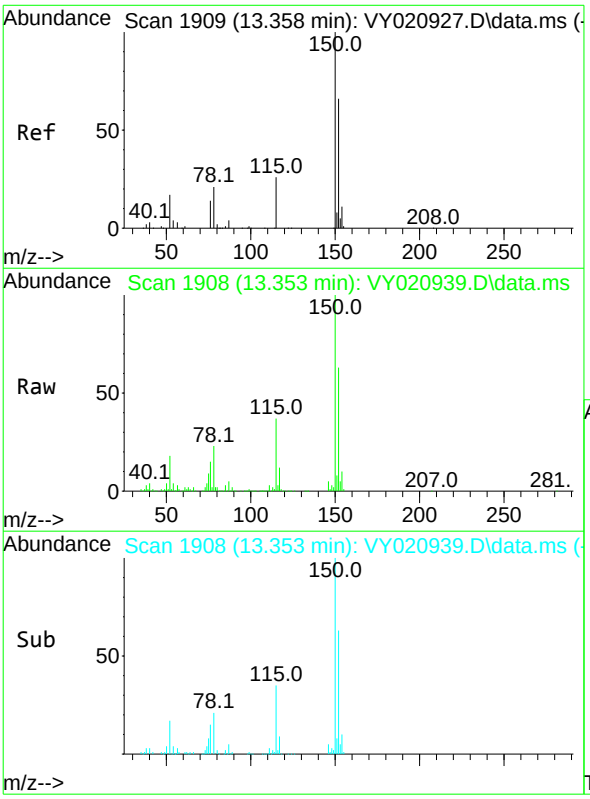
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.8 | 24.3 | 73.0 |
| 254 | 0.0 | 0.1 | 0.1# |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

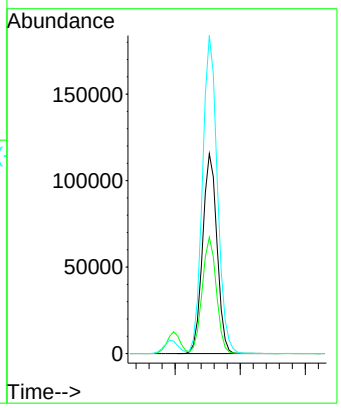


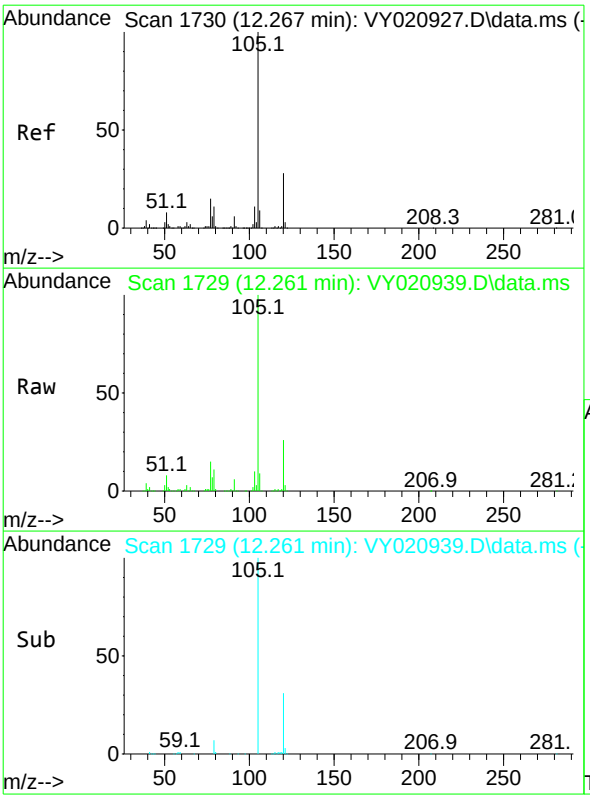




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:152 Resp: 177256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.3 | 29.0 | 87.0 |
| 150 | 164.7 | 0.0 | 347.6 |






#73
Isopropylbenzene
Concen: 20.544 ug/l
RT: 12.261 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

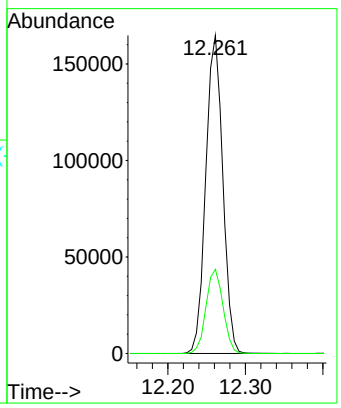
Tgt Ion:105 Resp: 250807

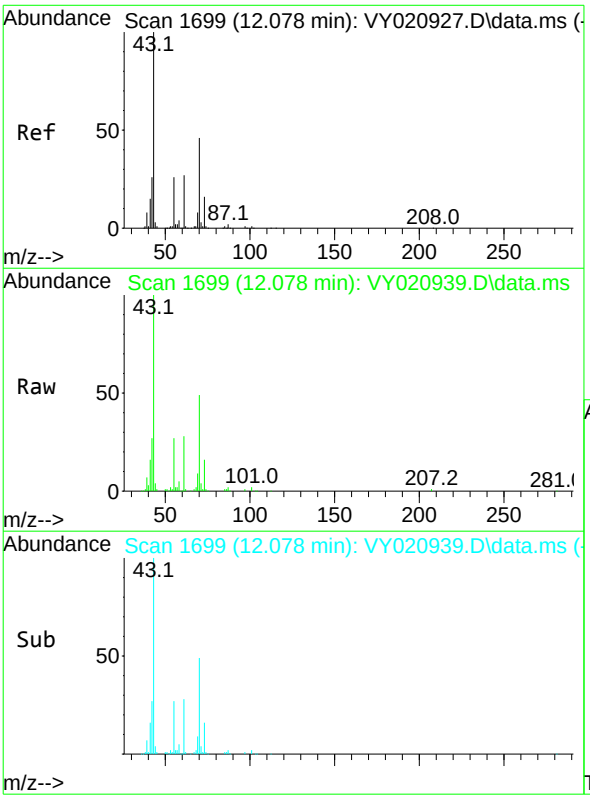
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.5 | 13.4 | 40.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

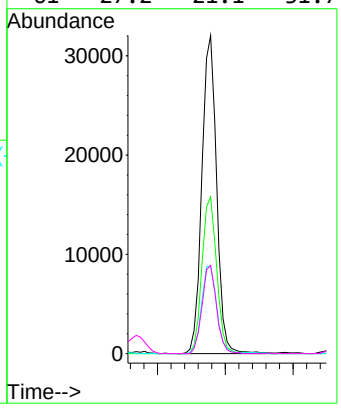


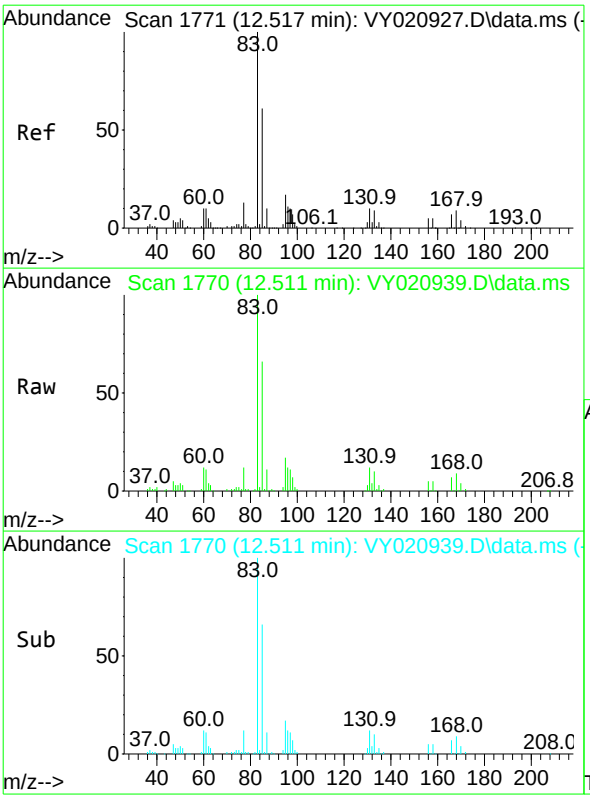




#74
N-amyl acetate
Concen: 22.278 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 43 Resp: 48395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 49.2 | 38.7 | 58.1 |
| 55 | 28.6 | 21.6 | 32.4 |
| 61 | 27.2 | 21.1 | 31.7 |






#75
1,1,2,2-Tetrachloroethane
Concen: 21.875 ug/l
RT: 12.511 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

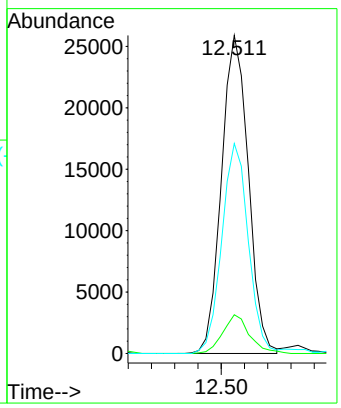
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

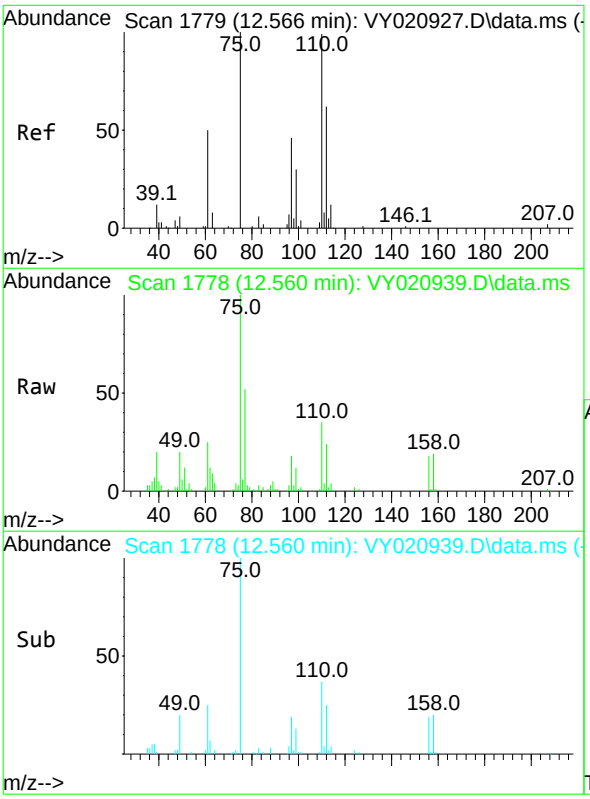
Tgt Ion: 83 Resp: 41551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 12.2 | 5.5 | 16.7 |
| 85 | 65.5 | 31.8 | 95.4 |

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

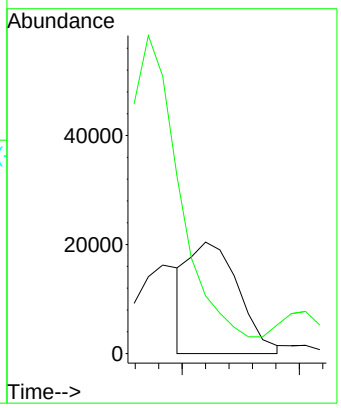


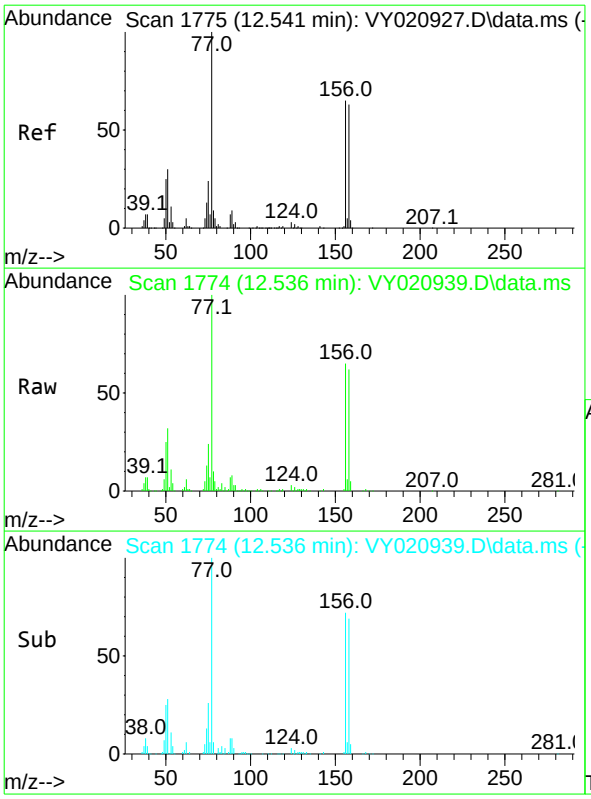




#76
1,2,3-Trichloropropane
Concen: 24.174 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 75 Resp: 30296

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






#77
Bromobenzene
Concen: 20.931 ug/l
RT: 12.536 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

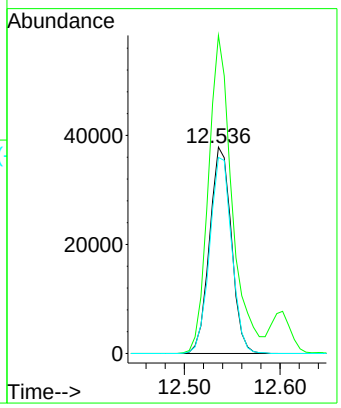
Tgt Ion:156 Resp: 59898

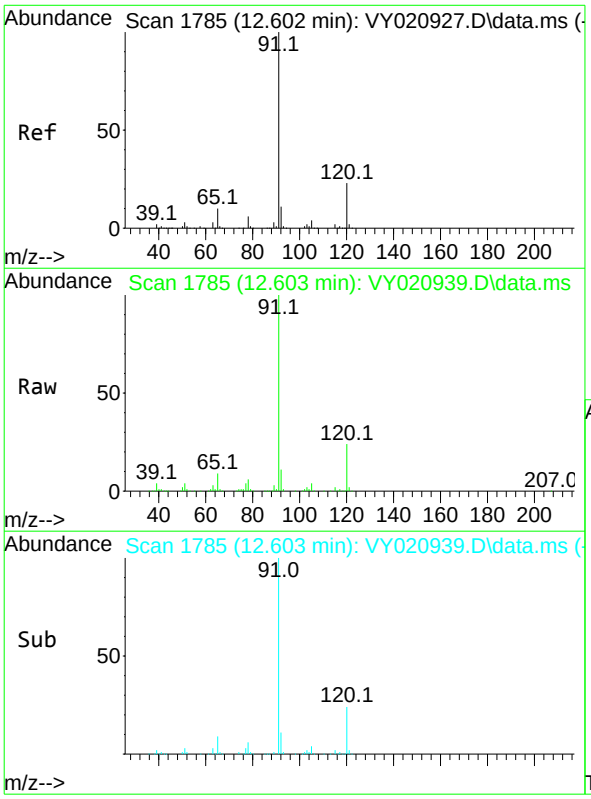
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 167.8 | 84.4 | 253.1 |
| 158 | 96.1 | 48.9 | 146.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

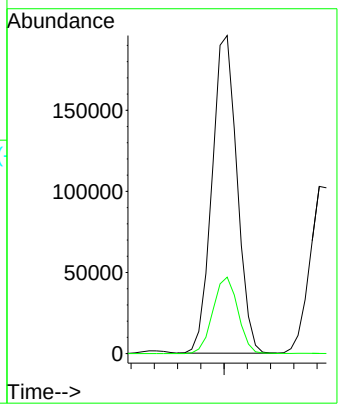


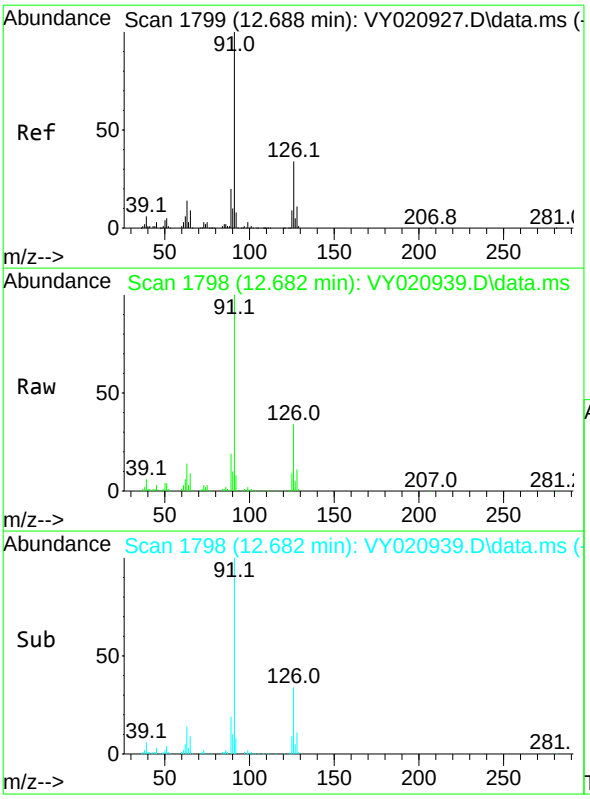




#78
n-propylbenzene
Concen: 20.591 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 91 Resp: 292813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.0 | 11.8 | 35.4 |






#79
2-Chlorotoluene
Concen: 20.519 ug/l
RT: 12.682 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

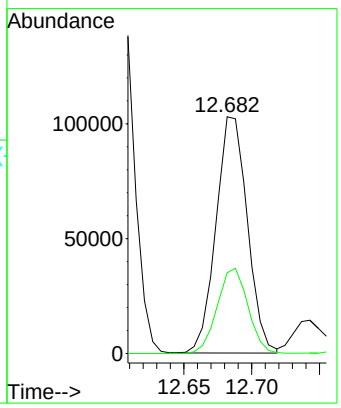
Tgt Ion: 91 Resp: 165489

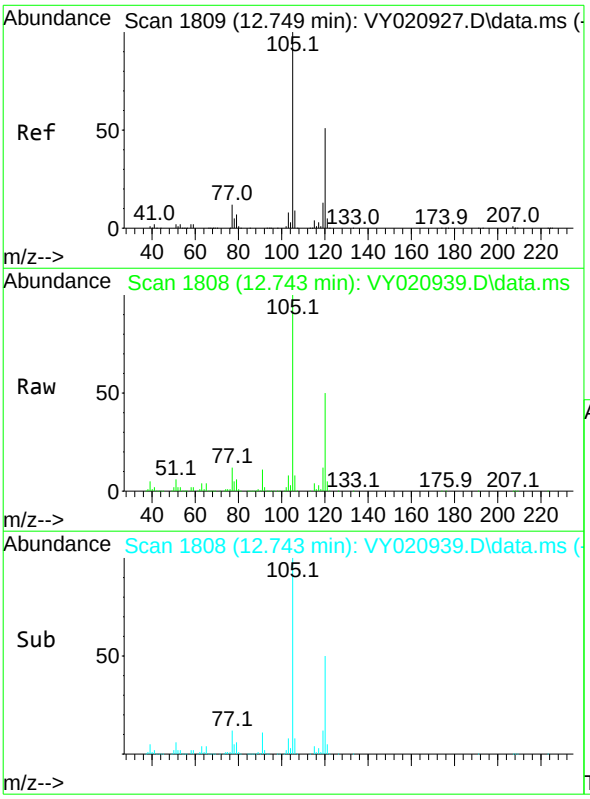
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.3 | 17.6 | 52.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

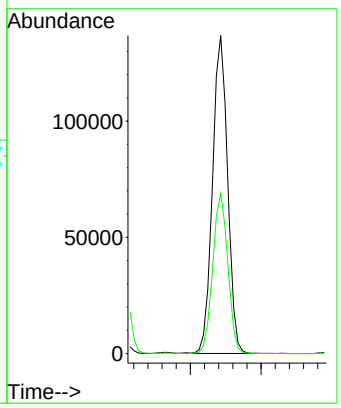


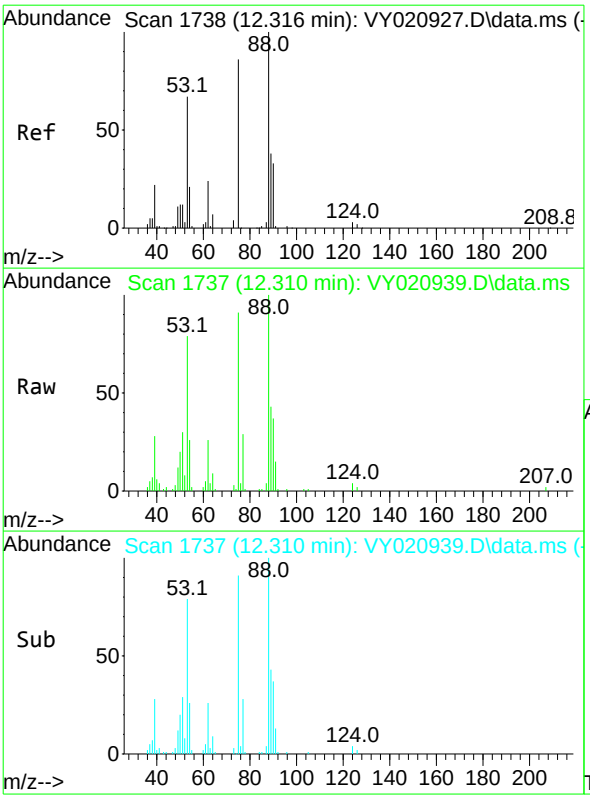




#80
1,3,5-Trimethylbenzene
Concen: 20.682 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:105 Resp: 202876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.3 | 24.9 | 74.6 |






#81
trans-1,4-Dichloro-2-butene
Concen: 23.432 ug/l
RT: 12.310 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

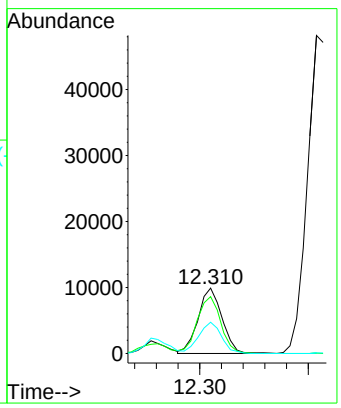
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

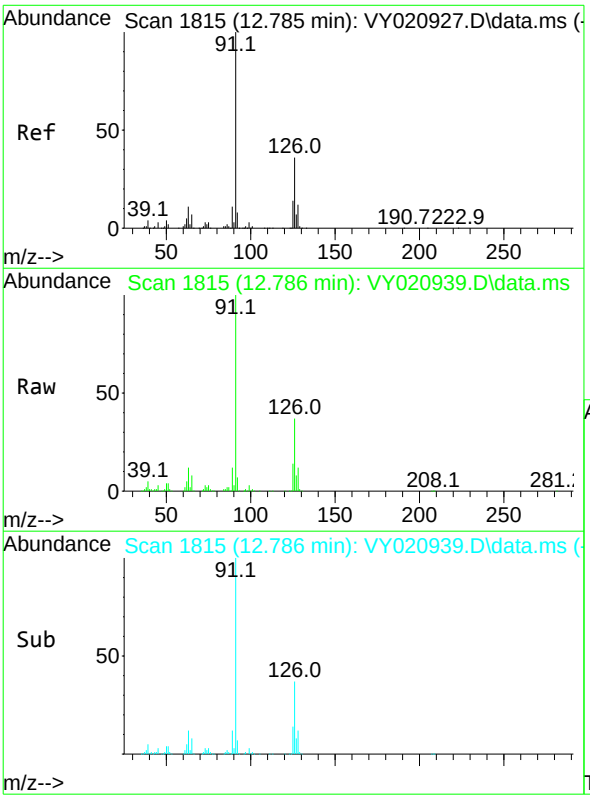
Tgt Ion: 75 Resp: 15200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 85.4 | 67.7 | 101.5 |
| 89 | 45.1 | 38.4 | 57.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

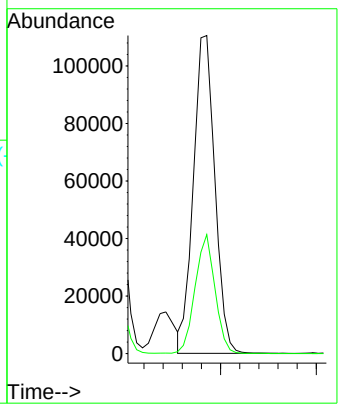


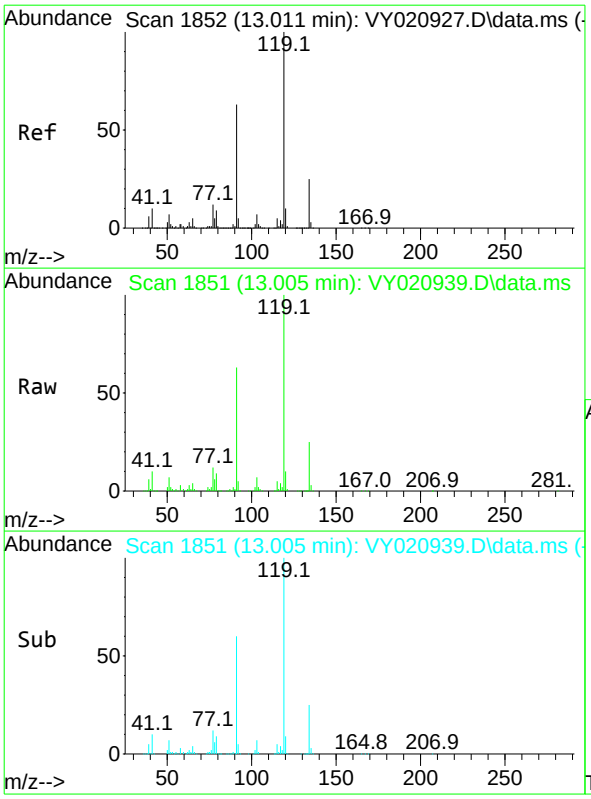




#82
4-Chlorotoluene
Concen: 20.883 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 91 Resp: 171989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.8 | 17.4 | 52.3 |






#83
tert-Butylbenzene
Concen: 20.988 ug/l
RT: 13.005 min Scan# 18
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

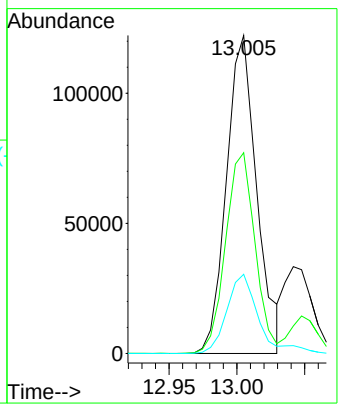
Tgt Ion:119 Resp: 189901

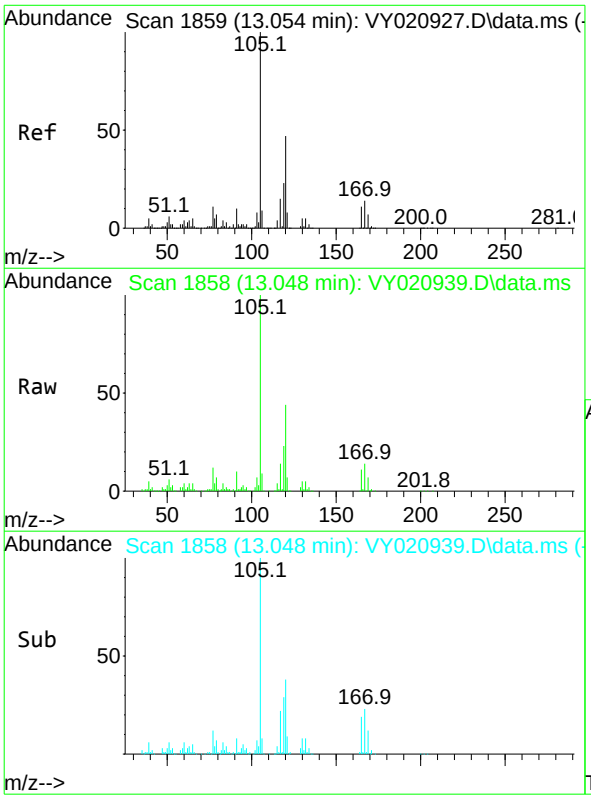
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 61.5 | 30.9 | 92.8 |
| 134 | 26.1 | 13.1 | 39.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

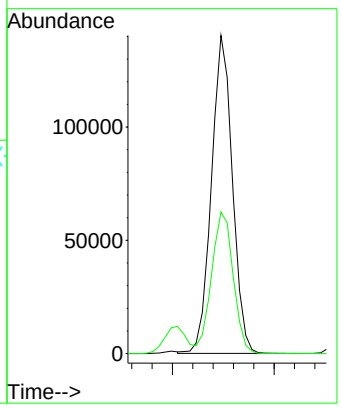


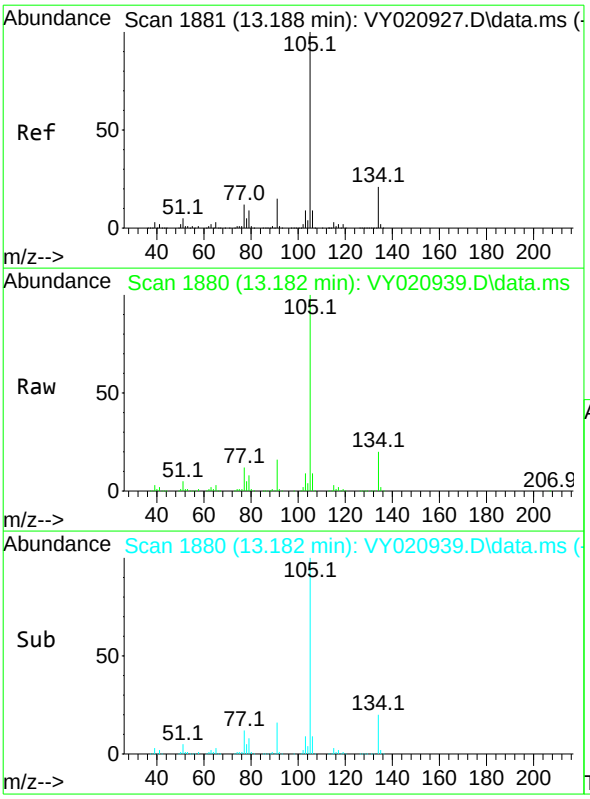




#84
1,2,4-Trimethylbenzene
Concen: 20.828 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:105 Resp: 201137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.8 | 22.9 | 68.7 |






#85
sec-Butylbenzene
Concen: 20.725 ug/l
RT: 13.182 min Scan# 18
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

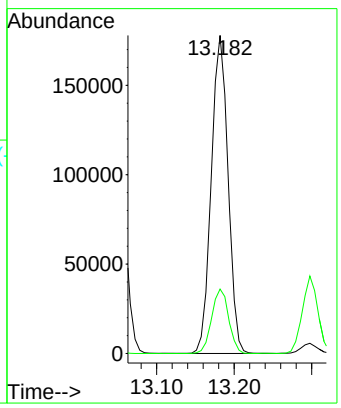
Tgt Ion:105 Resp: 267350

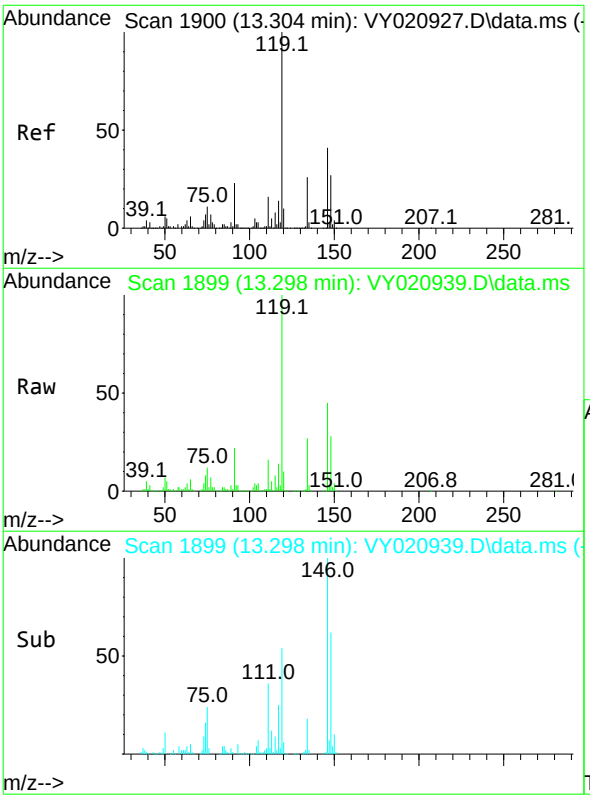
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.5 | 10.4 | 31.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

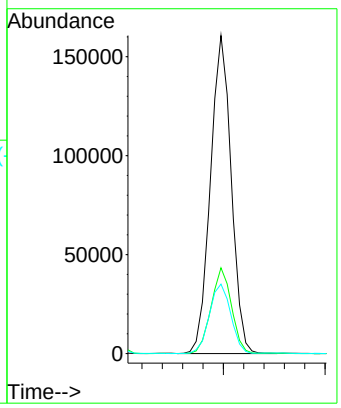


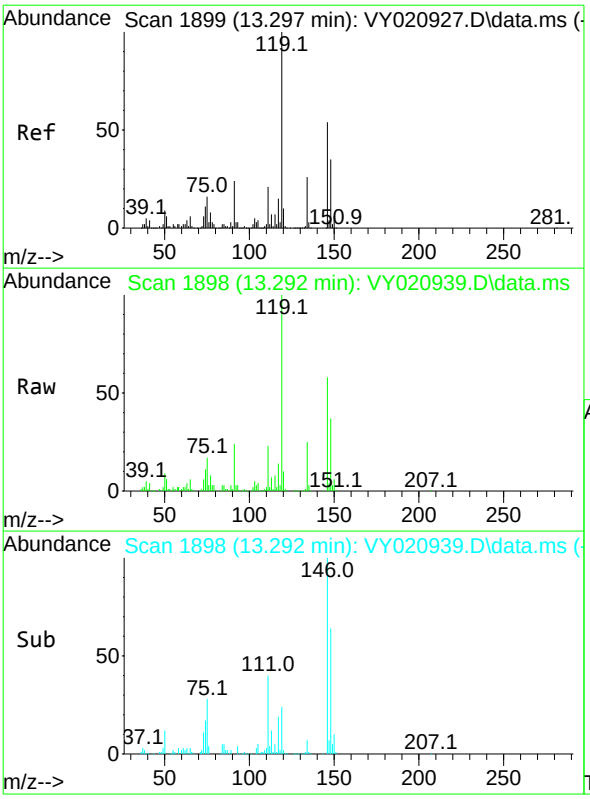




#86
p-Isopropyltoluene
Concen: 20.972 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:119 Resp: 228567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 13.3 | 39.8 |
| 91 | 22.6 | 11.6 | 34.7 |






#87
1,3-Dichlorobenzene
Concen: 21.064 ug/l
RT: 13.292 min Scan# 18
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

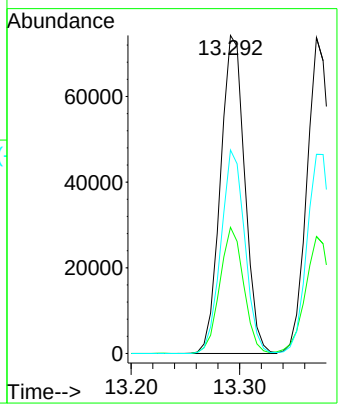
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

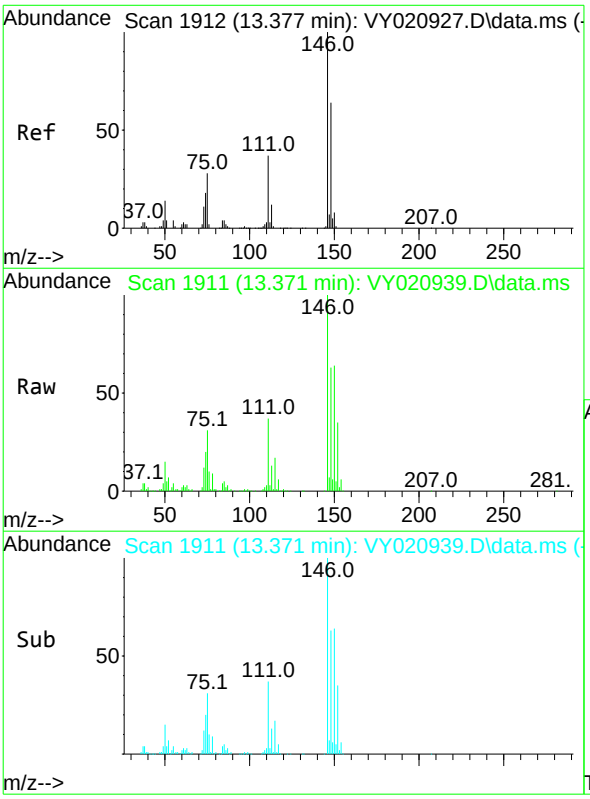
Tgt Ion:146 Resp: 115425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.9 | 19.4 | 58.2 |
| 148 | 62.9 | 31.9 | 95.7 |

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

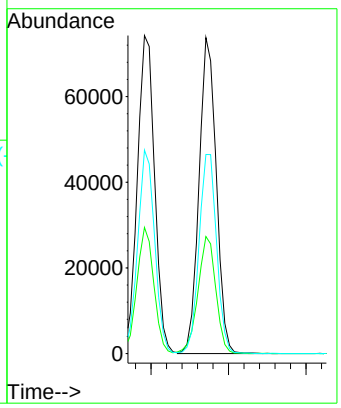


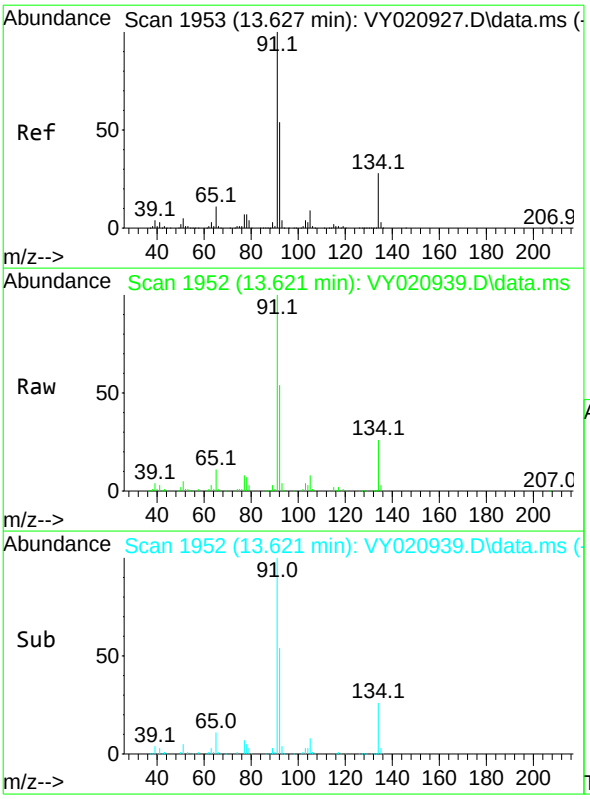




#88
1,4-Dichlorobenzene
Concen: 21.194 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:146 Resp: 114087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.5 | 18.8 | 56.4 |
| 148 | 64.4 | 32.0 | 96.0 |






#89
n-Butylbenzene
Concen: 20.606 ug/l
RT: 13.621 min Scan# 19
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

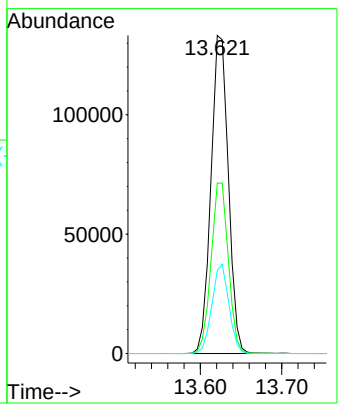
Tgt Ion: 91 Resp: 198093

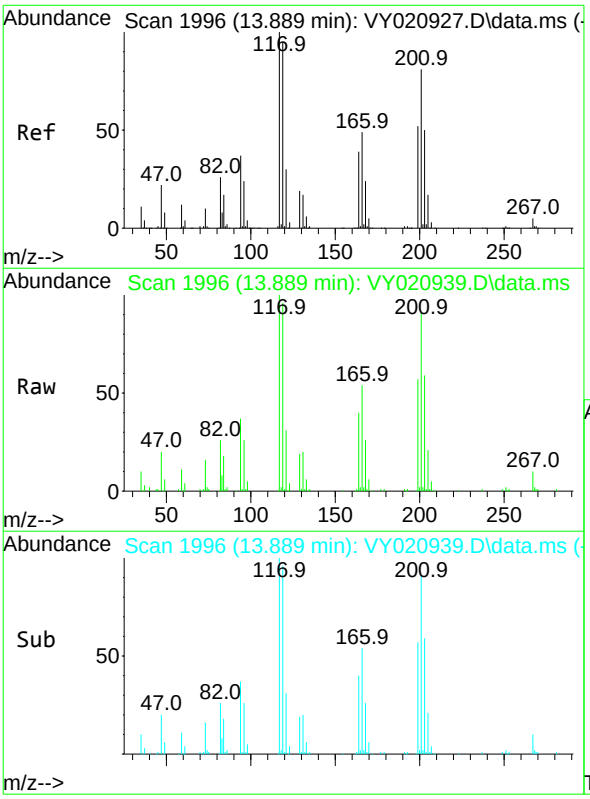
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.4 | 26.8 | 80.3 |
| 134 | 27.3 | 13.8 | 41.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

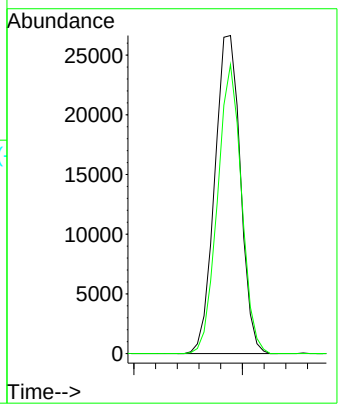


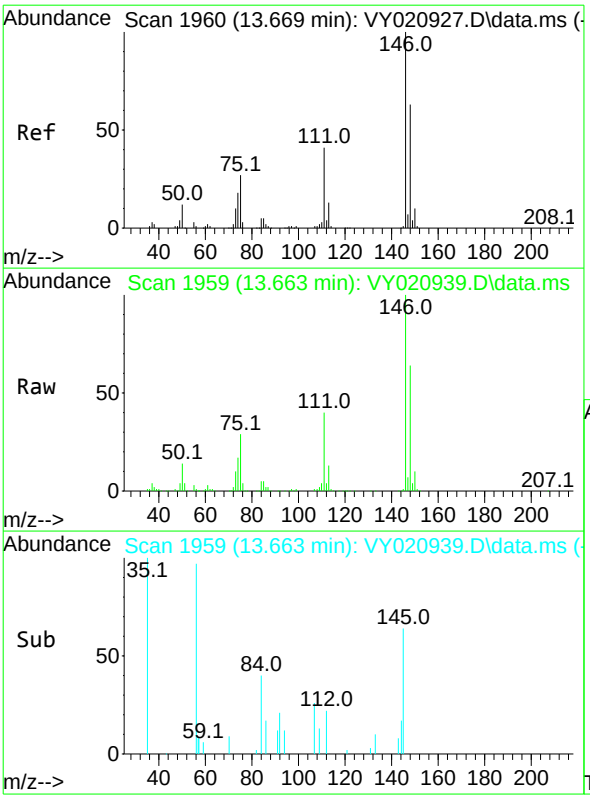




#90
Hexachloroethane
Concen: 20.208 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:117 Resp: 43750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 84.9 | 42.7 | 128.1 |






#91
1,2-Dichlorobenzene
Concen: 21.180 ug/l
RT: 13.663 min Scan# 19
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:146 Resp: 100553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.4 | 20.2 | 60.6 |
| 148 | 64.0 | 32.2 | 96.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

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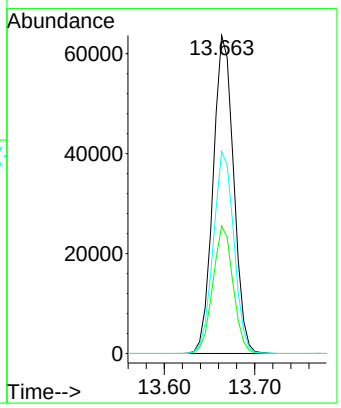
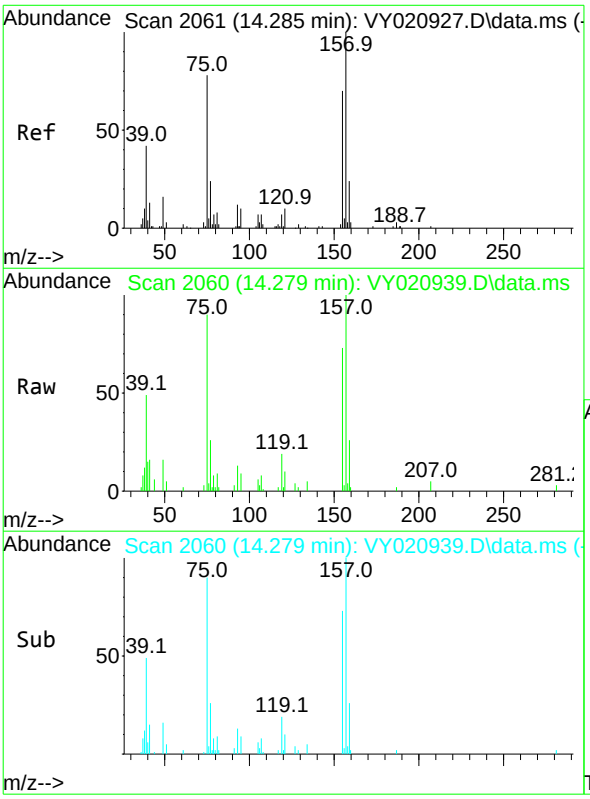
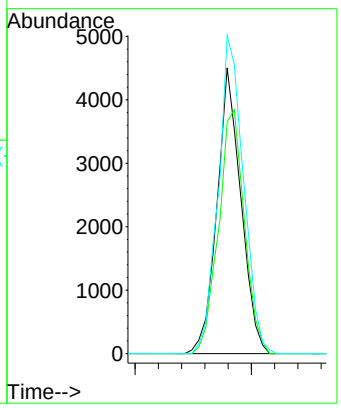


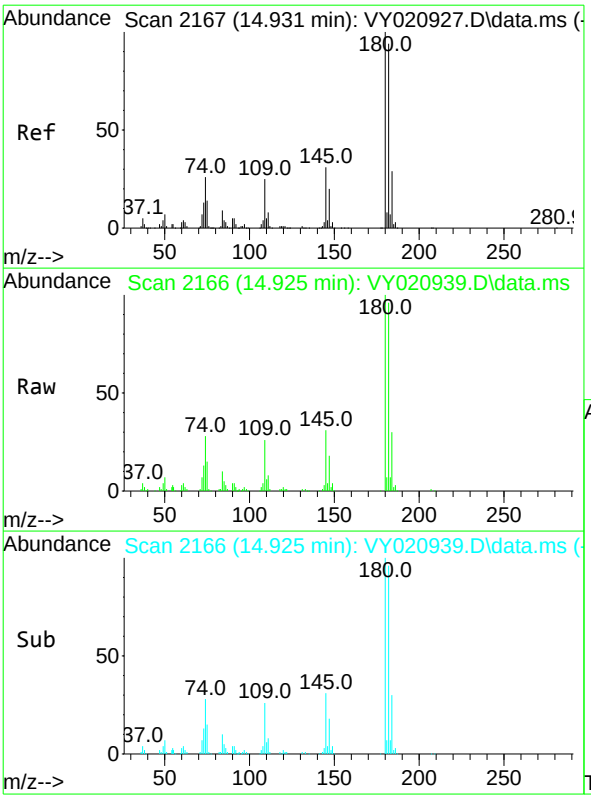




#92
1,2-Dibromo-3-Chloropropane
Concen: 22.545 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion: 75 Resp: 6433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 92.2 | 46.6 | 139.7 |
| 157 | 117.6 | 60.1 | 180.3 |






#93
1,2,4-Trichlorobenzene
Concen: 20.153 ug/l
RT: 14.925 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

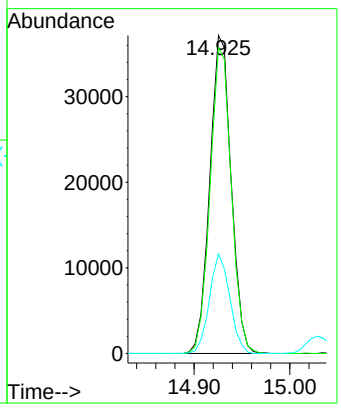
Tgt Ion:180 Resp: 57558

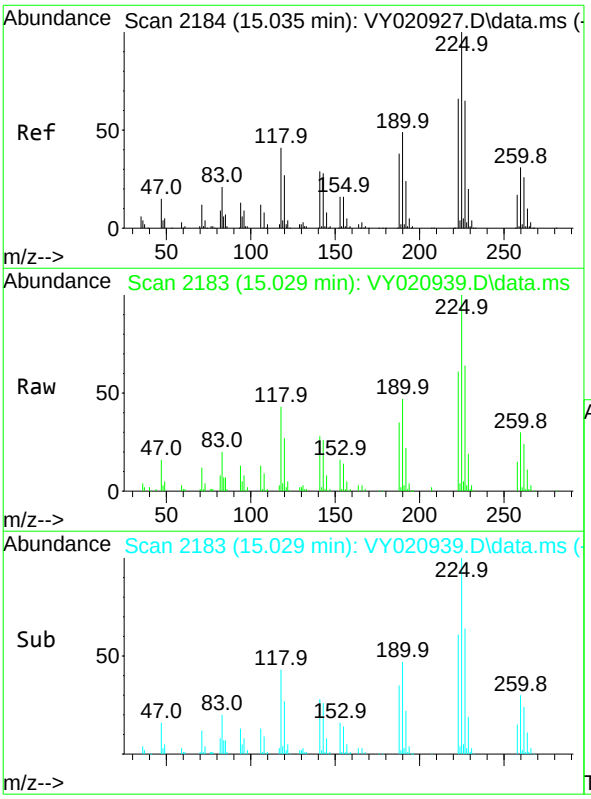
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 47.0 | 141.2 |
| 145 | 29.9 | 14.9 | 44.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

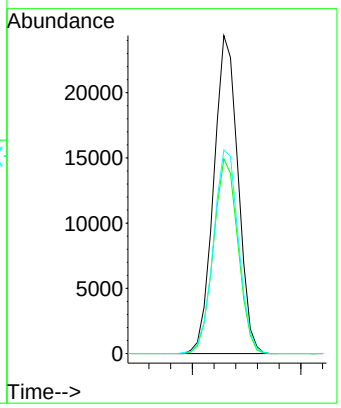


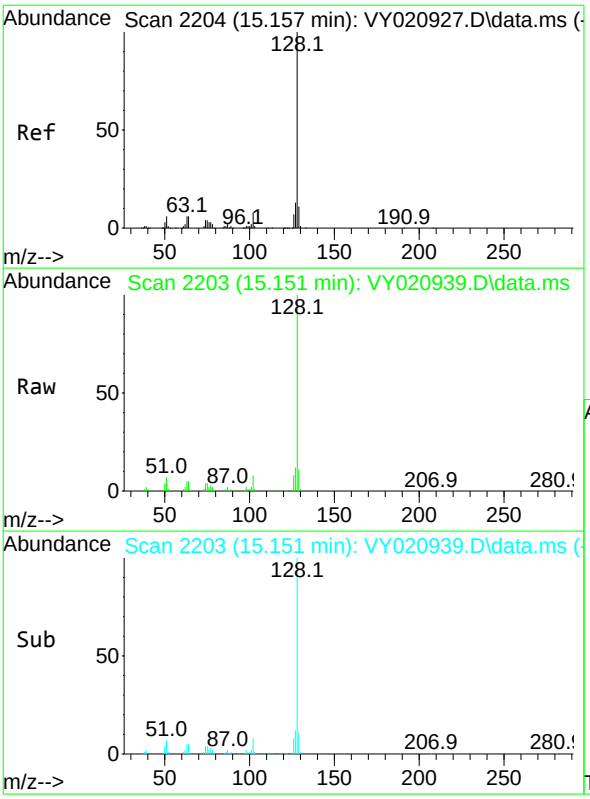




#94
Hexachlorobutadiene
Concen: 19.352 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:225 Resp: 37814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.1 | 31.5 | 94.5 |
| 227 | 66.3 | 31.9 | 95.9 |






#95
Naphthalene
Concen: 21.712 ug/l
RT: 15.151 min Scan# 22
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

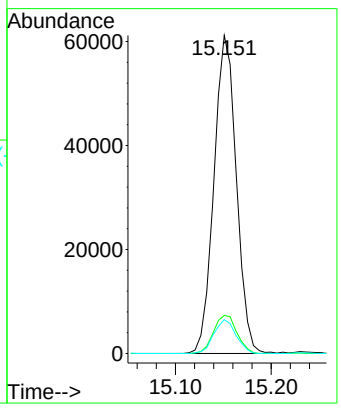
Tgt Ion:128 Resp: 99439

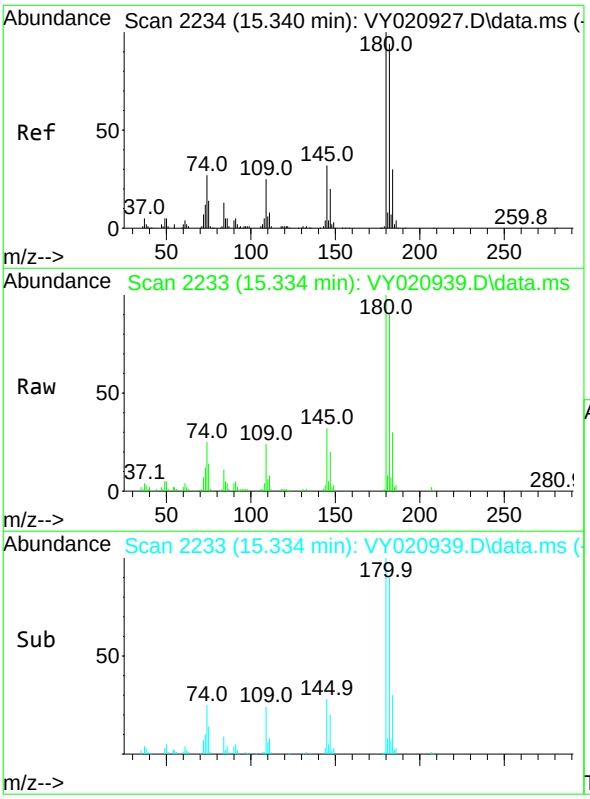
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.5 | 10.3 | 15.5 |
| 129 | 10.6 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0127SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/28/2025
Supervised By :Semsettin Yesilyurt 01/28/2025

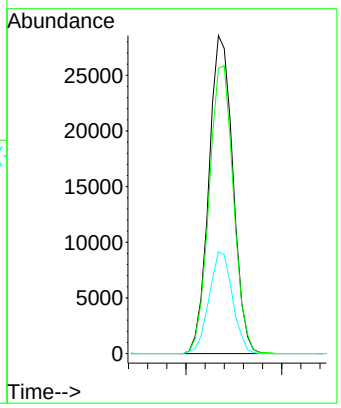



#96
1,2,3-Trichlorobenzene
Concen: 20.749 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. -0.006 min
Lab File: VY020939.D
Acq: 27 Jan 2025 10:54

Tgt Ion:180 Resp: 49787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 91.8 | 47.5 | 142.6 |
| 145 | 31.3 | 15.7 | 47.0 |



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# Manual Integration Report

| Sequence: | VN011425 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC100 | VN085438.D | 1,2,3-Trichloropropane | JOHN | 1/15/2025 9:31:09 AM | MMDadoda | 1/15/2025 12:55:19 PM | Peak Integrated by Software |
| VSTDICCC050 | VN085439.D | 1,2,3-Trichloropropane | JOHN | 1/15/2025 9:31:14 AM | MMDadoda | 1/15/2025 12:55:22 PM | Peak Integrated by Software |
| VSTDICC020 | VN085440.D | 1,2,3-Trichloropropane | JOHN | 1/15/2025 9:31:19 AM | MMDadoda | 1/15/2025 12:55:25 PM | Peak Integrated by Software |
| VSTDICC020 | VN085440.D | trans-1,4-Dichloro-2-but ene | JOHN | 1/15/2025 9:31:19 AM | MMDadoda | 1/15/2025 12:55:25 PM | Peak Integrated by Software |
| VSTDICC020 | VN085440.D | Vinyl Acetate | JOHN | 1/15/2025 9:31:19 AM | MMDadoda | 1/15/2025 12:55:25 PM | Peak Integrated by Software |
| VSTDICC010 | VN085441.D | 1,2,3-Trichloropropane | JOHN | 1/15/2025 9:31:23 AM | MMDadoda | 1/15/2025 12:55:29 PM | Peak Integrated by Software |
| VSTDICC005 | VN085442.D | 1,2,3-Trichloropropane | JOHN | 1/15/2025 9:31:28 AM | MMDadoda | 1/15/2025 12:55:34 PM | Peak Integrated by Software |
| VSTDICC005 | VN085442.D | Ethyl Acetate | JOHN | 1/15/2025 9:31:28 AM | MMDadoda | 1/15/2025 12:55:34 PM | Peak Integrated by Software |
| VSTDICC005 | VN085442.D | Vinyl Acetate | JOHN | 1/15/2025 9:31:28 AM | MMDadoda | 1/15/2025 12:55:34 PM | Peak Integrated by Software |
| VSTDICC001 | VN085443.D | 1,1,2-Trichlorotrifluoroet hane | JOHN | 1/15/2025 9:31:32 AM | MMDadoda | 1/15/2025 12:55:39 PM | Peak Integrated by Software |
| VSTDICC001 | VN085443.D | 1,1-Dichloroethane | JOHN | 1/15/2025 9:31:32 AM | MMDadoda | 1/15/2025 12:55:39 PM | Peak Integrated by Software |
| VSTDICC001 | VN085443.D | 1,2,3-Trichloropropane | JOHN | 1/15/2025 9:31:32 AM | MMDadoda | 1/15/2025 12:55:39 PM | Peak Integrated by Software |
| VSTDICC001 | VN085443.D | 1,4-Dichlorobenzene | JOHN | 1/15/2025 9:31:32 AM | MMDadoda | 1/15/2025 12:55:39 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VN011425 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC001 | VN085443.D | 2-Butanone | JOHN | 1/15/2025 9:31:32 AM | MMDadoda | 1/15/2025 12:55:39 PM | Peak Integrated by Software |
| VSTDICC001 | VN085443.D | Ethyl Acetate | JOHN | 1/15/2025 9:31:32 AM | MMDadoda | 1/15/2025 12:55:39 PM | Peak Integrated by Software |
| VSTDICC001 | VN085443.D | Vinyl Acetate | JOHN | 1/15/2025 9:31:32 AM | MMDadoda | 1/15/2025 12:55:39 PM | Peak Integrated by Software |
| VSTDICV050 | VN085445.D | 1,2,3-Trichloropropane | JOHN | 1/15/2025 9:31:37 AM | MMDadoda | 1/15/2025 12:55:43 PM | Peak Integrated by Software |
| VSTDICV050 | VN085445.D | trans-1,4-Dichloro-2-but ene | JOHN | 1/15/2025 9:31:37 AM | MMDadoda | 1/15/2025 12:55:43 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vn012725 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VN085516.D | 1,2,3-Trichloropropane | JOHN | 1/28/2025 9:58:51 AM | MMDadoda | 1/28/2025 2:28:14 PM | Peak Integrated by Software |
| VN0127WBS01 | VN085519.D | 1,2,3-Trichloropropane | JOHN | 1/28/2025 9:58:56 AM | MMDadoda | 1/28/2025 2:28:15 PM | Peak Integrated by Software |
| VN0127WBSD01 | VN085520.D | 1,2,3-Trichloropropane | JOHN | 1/28/2025 9:59:00 AM | MMDadoda | 1/28/2025 2:28:16 PM | Peak Integrated by Software |
| VSTDCCC050 | VN085524.D | 1,2,3-Trichloropropane | JOHN | 1/28/2025 9:59:04 AM | MMDadoda | 1/28/2025 2:28:18 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VN012825 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VN085526.D | 1,2,3-Trichloropropane | JOHN | 1/29/2025 9:37:19 AM | SAM | 1/29/2025 12:55:25 PM | Peak Integrated by Software |
| VN0128WBS01 | VN085529.D | 1,2,3-Trichloropropane | JOHN | 1/29/2025 9:37:23 AM | SAM | 1/29/2025 12:55:23 PM | Peak Integrated by Software |
| VSTDCCC050 | VN085546.D | 1,2,3-Trichloropropane | JOHN | 1/29/2025 9:37:40 AM | SAM | 1/29/2025 12:55:20 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY012425 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICCC050 | VY020927.D | 1,2,3-Trichloropropane | SAM | 1/27/2025 8:16:47 AM | MMDadoda | 1/27/2025 1:08:24 PM | Peak Integrated by Software |
| VSTDICC100 | VY020928.D | 1,2,3-Trichloropropane | SAM | 1/27/2025 8:16:51 AM | MMDadoda | 1/27/2025 1:08:26 PM | Peak Integrated by Software |
| VSTDICC150 | VY020929.D | 1,2,3-Trichloropropane | SAM | 1/27/2025 8:17:18 AM | MMDadoda | 1/27/2025 1:08:27 PM | Peak Integrated by Software |
| VSTDICC020 | VY020931.D | 1,2,3-Trichloropropane | SAM | 1/27/2025 8:17:13 AM | MMDadoda | 1/27/2025 1:08:29 PM | Peak Integrated by Software |
| VSTDICC010 | VY020932.D | 1,2,3-Trichloropropane | SAM | 1/27/2025 8:17:28 AM | MMDadoda | 1/27/2025 1:08:32 PM | Peak Integrated by Software |
| VSTDICC005 | VY020933.D | 1,2,3-Trichloropropane | SAM | 1/27/2025 8:17:06 AM | MMDadoda | 1/27/2025 1:08:39 PM | Peak Integrated by Software |
| VSTDICC005 | VY020933.D | Tert butyl alcohol | SAM | 1/27/2025 8:17:06 AM | MMDadoda | 1/27/2025 1:08:39 PM | Peak Integrated by Software |
| VSTDICV050 | VY020934.D | 1,2,3-Trichloropropane | SAM | 1/27/2025 8:17:02 AM | MMDadoda | 1/27/2025 1:08:41 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY012725 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY020936.D | 1,2,3-Trichloropropane | MMDadoda | 1/28/2025 2:27:45 PM | SAM | 1/28/2025 2:29:23 PM | Peak Integrated by Software |
| VY0127SBS01 | VY020938.D | 1,2,3-Trichloropropane | MMDadoda | 1/28/2025 2:27:43 PM | SAM | 1/28/2025 2:29:21 PM | Peak Integrated by Software |
| VY0127SBSD01 | VY020939.D | 1,2,3-Trichloropropane | MMDadoda | 1/28/2025 2:27:43 PM | SAM | 1/28/2025 2:29:19 PM | Peak Integrated by Software |
| VSTDCCC050 | VY020955.D | 1,2,3-Trichloropropane | MMDadoda | 1/28/2025 2:27:42 PM | SAM | 1/28/2025 2:29:18 PM | Peak Integrated by Software |

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**Instrument ID: MSVOA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # VN011425

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 1/15/2025 9:31:51 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/15/2025 12:55:51 PM | | |
| SubDirectory | VN011425 | HP Acquire Method | MSVOA_N | HP Processing Method | 82N011425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132529 |
| Initial Calibration Stds | VP132530,VP132531,VP132532,VP132533,VP132534,VP132535 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP132544 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VN085437.D | 14 Jan 2025 14:22 | JC\MD | Ok |
| 2 | VSTDICC100 | VN085438.D | 14 Jan 2025 14:56 | JC\MD | Ok,M |
| 3 | VSTDICCC050 | VN085439.D | 14 Jan 2025 15:19 | JC\MD | Ok,M |
| 4 | VSTDICC020 | VN085440.D | 14 Jan 2025 15:43 | JC\MD | Ok,M |
| 5 | VSTDICC010 | VN085441.D | 14 Jan 2025 16:07 | JC\MD | Ok,M |
| 6 | VSTDICC005 | VN085442.D | 14 Jan 2025 16:31 | JC\MD | Ok,M |
| 7 | VSTDICC001 | VN085443.D | 14 Jan 2025 17:19 | JC\MD | Ok,M |
| 8 | IBLK | VN085444.D | 14 Jan 2025 17:42 | JC\MD | Ok |
| 9 | VSTDICV050 | VN085445.D | 14 Jan 2025 18:06 | JC\MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # VN012725

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 1/28/2025 9:59:48 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/28/2025 2:28:25 PM | | |
| SubDirectory | VN012725 | HP Acquire Method | | HP Processing Method | 82N011425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132698 |
| Initial Calibration Stds | |
| CCC | VP132699,VP132700 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VN085515.D | 27 Jan 2025 13:08 | JC\MD | Ok |
| 2 | VSTDCCC050 | VN085516.D | 27 Jan 2025 14:50 | JC\MD | Ok,M |
| 3 | VN0127MBL01 | VN085517.D | 27 Jan 2025 15:24 | JC\MD | Ok |
| 4 | VN0127WBL01 | VN085518.D | 27 Jan 2025 15:48 | JC\MD | Ok |
| 5 | VN0127WBS01 | VN085519.D | 27 Jan 2025 16:12 | JC\MD | Ok,M |
| 6 | VN0127WBSD01 | VN085520.D | 27 Jan 2025 16:46 | JC\MD | Ok,M |
| 7 | IBLK | VN085521.D | 27 Jan 2025 17:10 | JC\MD | Ok |
| 8 | Q1194-09 | VN085522.D | 27 Jan 2025 17:34 | JC\MD | ReRun |
| 9 | Q1194-10 | VN085523.D | 27 Jan 2025 17:58 | JC\MD | Ok |
| 10 | VSTDCCC050 | VN085524.D | 27 Jan 2025 18:22 | JC\MD | Ok,M |

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**Instrument ID: MSVOA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # VN012825

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 1/29/2025 9:40:00 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 1/29/2025 12:55:29 PM | | |
| SubDirectory | VN012825 | HP Acquire Method | | HP Processing Method | 82N011425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132723 |
| Initial Calibration Stds | |
| CCC | VP132724,VP132725 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VN085525.D | 28 Jan 2025 09:17 | JC\MD | Ok |
| 2 | VSTDCCC050 | VN085526.D | 28 Jan 2025 09:53 | JC\MD | Ok,M |
| 3 | VN0128MBL01 | VN085527.D | 28 Jan 2025 10:27 | JC\MD | Ok |
| 4 | VN0128WBL01 | VN085528.D | 28 Jan 2025 10:51 | JC\MD | Ok |
| 5 | VN0128WBS01 | VN085529.D | 28 Jan 2025 11:15 | JC\MD | Ok,M |
| 6 | VN0128WBSD01 | VN085530.D | 28 Jan 2025 11:48 | JC\MD | Ok,M |
| 7 | IBLK | VN085531.D | 28 Jan 2025 12:12 | JC\MD | Ok |
| 8 | Q1180-04 | VN085532.D | 28 Jan 2025 12:36 | JC\MD | Ok |
| 9 | Q1194-09 | VN085533.D | 28 Jan 2025 13:00 | JC\MD | Ok |
| 10 | Q1199-01 | VN085534.D | 28 Jan 2025 13:24 | JC\MD | Ok |
| 11 | Q1199-02 | VN085535.D | 28 Jan 2025 13:49 | JC\MD | Ok |
| 12 | Q1199-03 | VN085536.D | 28 Jan 2025 14:13 | JC\MD | Ok |
| 13 | Q1199-04 | VN085537.D | 28 Jan 2025 14:37 | JC\MD | Ok |
| 14 | Q1199-05 | VN085538.D | 28 Jan 2025 15:01 | JC\MD | Ok |
| 15 | Q1199-06 | VN085539.D | 28 Jan 2025 15:25 | JC\MD | ReRun |
| 16 | Q1199-07 | VN085540.D | 28 Jan 2025 15:49 | JC\MD | Ok |
| 17 | PB166233ZHE#11 | VN085541.D | 28 Jan 2025 16:13 | JC\MD | Ok |
| 18 | PB166233ZHE#12 | VN085542.D | 28 Jan 2025 16:37 | JC\MD | Ok |
| 19 | PB166233ZHE#13 | VN085543.D | 28 Jan 2025 17:01 | JC\MD | Ok |
| 20 | IBLK | VN085544.D | 28 Jan 2025 17:25 | JC\MD | Ok |
| 21 | Q1199-06 | VN085545.D | 28 Jan 2025 17:50 | JC\MD | Ok |

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**Instrument ID: MSVOA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # VN012825

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 1/29/2025 9:40:00 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 1/29/2025 12:55:29 PM | | |
| SubDirectory | VN012825 | HP Acquire Method | | HP Processing Method | 82N011425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132723 |
| Initial Calibration Stds | |
| CCC | VP132724,VP132725 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | VSTDCCC050 | VN085546.D | 28 Jan 2025 18:14 | JC\MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY012425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 1/27/2025 8:17:43 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/27/2025 1:08:52 PM | | |
| SubDirectory | VY012425 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82Y012425S.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132671 |
| Initial Calibration Stds | VP132672,VP132673,VP132674,VP132675,VP132676,VP132677 |
| CCC | |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP132680 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY020922.D | 24 Jan 2025 08:44 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY020923.D | 24 Jan 2025 09:42 | SY/MD | Not Ok |
| 3 | VSTDICC005 | VY020924.D | 24 Jan 2025 12:49 | SY/MD | Not Ok |
| 4 | VSTDICC010 | VY020925.D | 24 Jan 2025 13:11 | SY/MD | Not Ok |
| 5 | VSTDICC020 | VY020926.D | 24 Jan 2025 13:34 | SY/MD | Not Ok |
| 6 | VSTDICCC050 | VY020927.D | 24 Jan 2025 14:03 | SY/MD | Ok,M |
| 7 | VSTDICC100 | VY020928.D | 24 Jan 2025 14:27 | SY/MD | Ok,M |
| 8 | VSTDICC150 | VY020929.D | 24 Jan 2025 14:50 | SY/MD | Ok,M |
| 9 | VIBLK | VY020930.D | 24 Jan 2025 15:13 | SY/MD | Ok |
| 10 | VSTDICC020 | VY020931.D | 24 Jan 2025 15:36 | SY/MD | Ok,M |
| 11 | VSTDICC010 | VY020932.D | 24 Jan 2025 15:59 | SY/MD | Ok,M |
| 12 | VSTDICC005 | VY020933.D | 24 Jan 2025 16:21 | SY/MD | Ok,M |
| 13 | VSTDICV050 | VY020934.D | 24 Jan 2025 17:29 | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY012725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 1/28/2025 11:09:32 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/28/2025 2:27:48 PM | | |
| SubDirectory | VY012725 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82Y012425S.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132687 |
| Initial Calibration Stds | |
| CCC | VP132688,VP132689 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY020935.D | 27 Jan 2025 08:32 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY020936.D | 27 Jan 2025 09:06 | SY/MD | Ok,M |
| 3 | VY0127SBL01 | VY020937.D | 27 Jan 2025 09:51 | SY/MD | Ok |
| 4 | VY0127SBS01 | VY020938.D | 27 Jan 2025 10:30 | SY/MD | Ok,M |
| 5 | VY0127SBSD01 | VY020939.D | 27 Jan 2025 10:54 | SY/MD | Ok,M |
| 6 | Q1183-01 | VY020940.D | 27 Jan 2025 11:20 | SY/MD | Not Ok |
| 7 | Q1187-01 | VY020941.D | 27 Jan 2025 11:43 | SY/MD | Not Ok |
| 8 | Q1183-01 | VY020942.D | 27 Jan 2025 12:16 | SY/MD | ReRun |
| 9 | Q1187-01 | VY020943.D | 27 Jan 2025 12:38 | SY/MD | Not Ok |
| 10 | Q1183-01 | VY020944.D | 27 Jan 2025 13:02 | SY/MD | Ok |
| 11 | Q1187-01 | VY020945.D | 27 Jan 2025 13:25 | SY/MD | Not Ok |
| 12 | Q1194-01 | VY020946.D | 27 Jan 2025 14:24 | SY/MD | ReRun |
| 13 | Q1194-02 | VY020947.D | 27 Jan 2025 14:47 | SY/MD | Ok |
| 14 | Q1194-03 | VY020948.D | 27 Jan 2025 15:10 | SY/MD | Not Ok |
| 15 | Q1194-04 | VY020949.D | 27 Jan 2025 15:32 | SY/MD | Ok |
| 16 | Q1194-01RE | VY020950.D | 27 Jan 2025 16:01 | SY/MD | Confirms |
| 17 | Q1194-03 | VY020951.D | 27 Jan 2025 16:24 | SY/MD | Ok |
| 18 | Q1187-01 | VY020952.D | 27 Jan 2025 16:49 | SY/MD | ReRun |
| 19 | Q1187-01RE | VY020953.D | 27 Jan 2025 17:11 | SY/MD | Confirms |
| 20 | VIBLK | VY020954.D | 27 Jan 2025 17:35 | SY/MD | Ok |
| 21 | VSTDCCC050 | VY020955.D | 27 Jan 2025 17:57 | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID:** MSVOA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN011425

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 1/15/2025 9:31:51 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/15/2025 12:55:51 PM | | |
| SubDirectory | VN011425 | HP Acquire Method | MSVOA_N | HP Processing Method | 82N011425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132529 |
| Initial Calibration Stds | VP132530,VP132531,VP132532,VP132533,VP132534,VP132535 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP132544 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VN085437.D | 14 Jan 2025 14:22 | | JC\MD | Ok |
| 2 | VSTDICC100 | VSTDICC100 | VN085438.D | 14 Jan 2025 14:56 | | JC\MD | Ok,M |
| 3 | VSTDICCC050 | VSTDICCC050 | VN085439.D | 14 Jan 2025 15:19 | Comp.#56 is on Linear Regression | JC\MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VN085440.D | 14 Jan 2025 15:43 | Comp.#86 is on Quadratic Regression | JC\MD | Ok,M |
| 5 | VSTDICC010 | VSTDICC010 | VN085441.D | 14 Jan 2025 16:07 | | JC\MD | Ok,M |
| 6 | VSTDICC005 | VSTDICC005 | VN085442.D | 14 Jan 2025 16:31 | | JC\MD | Ok,M |
| 7 | VSTDICC001 | VSTDICC001 | VN085443.D | 14 Jan 2025 17:19 | | JC\MD | Ok,M |
| 8 | IBLK | IBLK | VN085444.D | 14 Jan 2025 17:42 | | JC\MD | Ok |
| 9 | VSTDICV050 | ICVVN011425 | VN085445.D | 14 Jan 2025 18:06 | | JC\MD | Ok,M |

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**Instrument ID:** MSVOA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN012725

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 1/28/2025 9:59:48 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/28/2025 2:28:25 PM | | |
| SubDirectory | VN012725 | HP Acquire Method | | HP Processing Method | 82N011425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132698 |
| Initial Calibration Stds | |
| CCC | VP132699,VP132700 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VN085515.D | 27 Jan 2025 13:08 | | JC\MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VN085516.D | 27 Jan 2025 14:50 | V13516 | JC\MD | Ok,M |
| 3 | VN0127MBL01 | VN0127MBL01 | VN085517.D | 27 Jan 2025 15:24 | | JC\MD | Ok |
| 4 | VN0127WBL01 | VN0127WBL01 | VN085518.D | 27 Jan 2025 15:48 | | JC\MD | Ok |
| 5 | VN0127WBS01 | VN0127WBS01 | VN085519.D | 27 Jan 2025 16:12 | | JC\MD | Ok,M |
| 6 | VN0127WBSD01 | VN0127WBSD01 | VN085520.D | 27 Jan 2025 16:46 | | JC\MD | Ok,M |
| 7 | IBLK | IBLK | VN085521.D | 27 Jan 2025 17:10 | | JC\MD | Ok |
| 8 | Q1194-09 | FB | VN085522.D | 27 Jan 2025 17:34 | vial A pH<2 FB;hit of com.#16 | JC\MD | ReRun |
| 9 | Q1194-10 | TB | VN085523.D | 27 Jan 2025 17:58 | vial A pH<2 TB | JC\MD | Ok |
| 10 | VSTDCCC050 | VSTDCCC050EC | VN085524.D | 27 Jan 2025 18:22 | | JC\MD | Ok,M |

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**Instrument ID:** MSVOA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN012825

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 1/29/2025 9:40:00 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 1/29/2025 12:55:29 PM | | |
| SubDirectory | VN012825 | HP Acquire Method | | HP Processing Method | 82N011425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132723 |
| Initial Calibration Stds | |
| CCC | VP132724,VP132725 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VN085525.D | 28 Jan 2025 09:17 | | JC\MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VN085526.D | 28 Jan 2025 09:53 | V13516 | JC\MD | Ok,M |
| 3 | VN0128MBL01 | VN0128MBL01 | VN085527.D | 28 Jan 2025 10:27 | | JC\MD | Ok |
| 4 | VN0128WBL01 | VN0128WBL01 | VN085528.D | 28 Jan 2025 10:51 | | JC\MD | Ok |
| 5 | VN0128WBS01 | VN0128WBS01 | VN085529.D | 28 Jan 2025 11:15 | | JC\MD | Ok,M |
| 6 | VN0128WBSD01 | VN0128WBSD01 | VN085530.D | 28 Jan 2025 11:48 | | JC\MD | Ok,M |
| 7 | IBLK | IBLK | VN085531.D | 28 Jan 2025 12:12 | | JC\MD | Ok |
| 8 | Q1180-04 | Storage-Blank-SAMPLE | VN085532.D | 28 Jan 2025 12:36 | vial B pH<2 | JC\MD | Ok |
| 9 | Q1194-09 | FB | VN085533.D | 28 Jan 2025 13:00 | vial B pH<2 FB | JC\MD | Ok |
| 10 | Q1199-01 | BP-VPB-192-TB-20250 | VN085534.D | 28 Jan 2025 13:24 | vial A pH<2 TB | JC\MD | Ok |
| 11 | Q1199-02 | BP-VPB-192-EB-20250 | VN085535.D | 28 Jan 2025 13:49 | vial A pH<2 EB | JC\MD | Ok |
| 12 | Q1199-03 | BP-VPB-192-GW-280-2 | VN085536.D | 28 Jan 2025 14:13 | vial A pH<2 | JC\MD | Ok |
| 13 | Q1199-04 | BP-VPB-192-GW-260-2 | VN085537.D | 28 Jan 2025 14:37 | vial A pH<2 | JC\MD | Ok |
| 14 | Q1199-05 | BP-VPB-192-GW-240-2 | VN085538.D | 28 Jan 2025 15:01 | vial A pH<2 | JC\MD | Ok |
| 15 | Q1199-06 | BP-VPB-192-GW-220-2 | VN085539.D | 28 Jan 2025 15:25 | vial A pH<2 Surrogate Fail | JC\MD | ReRun |
| 16 | Q1199-07 | BP-VPB-192-GW-DUP- | VN085540.D | 28 Jan 2025 15:49 | vial A pH<2 | JC\MD | Ok |
| 17 | PB166233ZHE#11 | PB166233ZHE#11 | VN085541.D | 28 Jan 2025 16:13 | | JC\MD | Ok |
| 18 | PB166233ZHE#12 | PB166233ZHE#12 | VN085542.D | 28 Jan 2025 16:37 | | JC\MD | Ok |

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**Instrument ID:** MSVOA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN012825

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 1/29/2025 9:40:00 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 1/29/2025 12:55:29 PM | | |
| SubDirectory | VN012825 | HP Acquire Method | | HP Processing Method | 82N011425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132723 |
| Initial Calibration Stds | |
| CCC | VP132724,VP132725 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PB166233ZHE#13 | PB166233ZHE#13 | VN085543.D | 28 Jan 2025 17:01 | | JC\MD | Ok |
| 20 | IBLK | IBLK | VN085544.D | 28 Jan 2025 17:25 | | JC\MD | Ok |
| 21 | Q1199-06 | BP-VPB-192-GW-220-2 | VN085545.D | 28 Jan 2025 17:50 | vial B pH<2 | JC\MD | Ok |
| 22 | VSTDCCC050 | VSTDCCC050EC | VN085546.D | 28 Jan 2025 18:14 | | JC\MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY012425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 1/27/2025 8:17:43 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/27/2025 1:08:52 PM | | |
| SubDirectory | VY012425 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82Y012425S.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132671 |
| Initial Calibration Stds | VP132672,VP132673,VP132674,VP132675,VP132676,VP132677 |
| CCC | |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP132680 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY020922.D | 24 Jan 2025 08:44 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY020923.D | 24 Jan 2025 09:42 | Need ICAL | SY/MD | Not Ok |
| 3 | VSTDICC005 | VSTDICC005 | VY020924.D | 24 Jan 2025 12:49 | Spike error | SY/MD | Not Ok |
| 4 | VSTDICC010 | VSTDICC010 | VY020925.D | 24 Jan 2025 13:11 | Spike error | SY/MD | Not Ok |
| 5 | VSTDICC020 | VSTDICC020 | VY020926.D | 24 Jan 2025 13:34 | Spike error | SY/MD | Not Ok |
| 6 | VSTDICCC050 | VSTDICCC050 | VY020927.D | 24 Jan 2025 14:03 | | SY/MD | Ok,M |
| 7 | VSTDICC100 | VSTDICC100 | VY020928.D | 24 Jan 2025 14:27 | | SY/MD | Ok,M |
| 8 | VSTDICC150 | VSTDICC150 | VY020929.D | 24 Jan 2025 14:50 | Method fail for comp.#11 | SY/MD | Ok,M |
| 9 | VIBLK | VIBLK | VY020930.D | 24 Jan 2025 15:13 | | SY/MD | Ok |
| 10 | VSTDICC020 | VSTDICC020 | VY020931.D | 24 Jan 2025 15:36 | | SY/MD | Ok,M |
| 11 | VSTDICC010 | VSTDICC010 | VY020932.D | 24 Jan 2025 15:59 | | SY/MD | Ok,M |
| 12 | VSTDICC005 | VSTDICC005 | VY020933.D | 24 Jan 2025 16:21 | | SY/MD | Ok,M |
| 13 | VSTDICV050 | ICVVY012425 | VY020934.D | 24 Jan 2025 17:29 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY012725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 1/28/2025 11:09:32 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/28/2025 2:27:48 PM | | |
| SubDirectory | VY012725 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82Y012425S.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132687 |
| Initial Calibration Stds | |
| CCC | VP132688,VP132689 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY020935.D | 27 Jan 2025 08:32 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY020936.D | 27 Jan 2025 09:06 | | SY/MD | Ok,M |
| 3 | VY0127SBL01 | VY0127SBL01 | VY020937.D | 27 Jan 2025 09:51 | | SY/MD | Ok |
| 4 | VY0127SBS01 | VY0127SBS01 | VY020938.D | 27 Jan 2025 10:30 | | SY/MD | Ok,M |
| 5 | VY0127SBSD01 | VY0127SBSD01 | VY020939.D | 27 Jan 2025 10:54 | | SY/MD | Ok,M |
| 6 | Q1183-01 | VNJ-237 | VY020940.D | 27 Jan 2025 11:20 | NOT PURGE | SY/MD | Not Ok |
| 7 | Q1187-01 | SP-COMP | VY020941.D | 27 Jan 2025 11:43 | NOT PURGE | SY/MD | Not Ok |
| 8 | Q1183-01 | VNJ-237 | VY020942.D | 27 Jan 2025 12:16 | Internal Standard Fail,vial B | SY/MD | ReRun |
| 9 | Q1187-01 | SP-COMP | VY020943.D | 27 Jan 2025 12:38 | NOT PURGE | SY/MD | Not Ok |
| 10 | Q1183-01 | VNJ-237 | VY020944.D | 27 Jan 2025 13:02 | vial A | SY/MD | Ok |
| 11 | Q1187-01 | SP-COMP | VY020945.D | 27 Jan 2025 13:25 | NOT PURGE | SY/MD | Not Ok |
| 12 | Q1194-01 | B-110-SB01 | VY020946.D | 27 Jan 2025 14:24 | Internal Standard Fail,vial A | SY/MD | ReRun |
| 13 | Q1194-02 | B-110-SB02 | VY020947.D | 27 Jan 2025 14:47 | vial A | SY/MD | Ok |
| 14 | Q1194-03 | B-113-SB01 | VY020948.D | 27 Jan 2025 15:10 | not purge,vial A | SY/MD | Not Ok |
| 15 | Q1194-04 | B-113-SB02 | VY020949.D | 27 Jan 2025 15:32 | vial A | SY/MD | Ok |
| 16 | Q1194-01RE | B-110-SB01RE | VY020950.D | 27 Jan 2025 16:01 | Internal Standard Fail,vial B | SY/MD | Confirms |
| 17 | Q1194-03 | B-113-SB01 | VY020951.D | 27 Jan 2025 16:24 | vial B | SY/MD | Ok |
| 18 | Q1187-01 | SP-COMP | VY020952.D | 27 Jan 2025 16:49 | Internal Standard Fail,vial A | SY/MD | ReRun |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY012725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 1/28/2025 11:09:32 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/28/2025 2:27:48 PM | | |
| SubDirectory | VY012725 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82Y012425S.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132687 |
| Initial Calibration Stds | |
| CCC | VP132688,VP132689 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q1187-01RE | SP-COMPRE | VY020953.D | 27 Jan 2025 17:11 | Internal Standard Fail,vial B | SY/MD | Confirms |
| 20 | VIBLK | VIBLK | VY020954.D | 27 Jan 2025 17:35 | | SY/MD | Ok |
| 21 | VSTDCCC050 | VSTDCCC050EC | VY020955.D | 27 Jan 2025 17:57 | | SY/MD | Ok,M |

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# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 1/28/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 16:30
**In Date:** 01/27/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:10
**Out Date:** 01/28/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB134424

| 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 |
|---|---|---|---|---|---|---|---|---|
| Q1194-01 | B-110-SB01 | 1 | 1.15 | 8.82 | 9.97 | 8.94 | 88.3 | |
| Q1194-02 | B-110-SB02 | 2 | 1.19 | 8.59 | 9.78 | 6.09 | 57.0 | |
| Q1194-03 | B-113-SB01 | 3 | 1.17 | 8.41 | 9.58 | 8.48 | 86.9 | |
| Q1194-04 | B-113-SB02 | 4 | 1.15 | 8.84 | 9.99 | 6.87 | 64.7 | |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

WB 134424

**WorkList Name :** %1-012725 **WorkList ID :** 187156 **Department :** Wet-Chemistry **Date :** 01-27-2025 07:59:22

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1194-01 | B-110-SB01 | Solid | Percent Solids | Cool 4 deg C | PORT06 | N41 | 01/25/2025 | Chemtech -SO |
| Q1194-02 | B-110-SB02 | Solid | Percent Solids | Cool 4 deg C | PORT06 | N41 | 01/25/2025 | Chemtech -SO |
| Q1194-03 | B-113-SB01 | Solid | Percent Solids | Cool 4 deg C | PORT06 | N41 | 01/25/2025 | Chemtech -SO |
| Q1194-04 | B-113-SB02 | Solid | Percent Solids | Cool 4 deg C | PORT06 | N41 | 01/25/2025 | Chemtech -SO |

**Date/Time** 01/27/25 15:00
**Raw Sample Received by:** TB WC
**Raw Sample Relinquished by:** CP SM

**Date/Time** 01/27/25 17:00
**Raw Sample Received by:** CP SM
**Raw Sample Relinquished by:** TB WC

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# Prep Standard - Chemical Standard Summary

**Order ID :** Q1194

**Test :** VOC-TCLVOA-10

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** vn012725,VN012825,VY012725,

**Standard ID :**
VP130430,VP130432,VP131746,VP131767,VP131783,VP132035,VP132036,VP132096,VP132098,VP132468,VP132469,VP132613,VP132614,VP132687,VP132688,VP132689,VP132698,VP132699,VP132700,VP132723,VP132724,VP132725,

**Chemical ID :**
V13391,V13446,V13457,V13460,V13465,V13466,V13707,V14145,V14154,V14175,V14176,V14289,V14433,V14439,V14521,V14522,V14614,V14624,V14627,V14630,V14631,V14632,V14633,V14722,V14723,V14724,V14754,V14756,V14801,V14814,V14830,V14831,V14832,W3112,

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 617 | 8260 Surrogate, 400PPM | VP130430 | 09/20/2024 | 02/28/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 09/26/2024 |

**FROM** 0.40000ml of V13707 + 24.60000ml of V14145 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 249 | 8260 Surrogate, 100PPM | VP130432 | 09/20/2024 | 02/28/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 09/26/2024 |

**FROM** 0.10000ml of V13707 + 24.90000ml of V14145 = Final Quantity: 25.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 247 | 8260 Internal Standard, 250PPM | VP131746 | 11/22/2024 | 05/18/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 11/23/2024 |

**FROM** 0.50000ml of V14289 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 218 | BFB, 25PPM | VP131767 | 11/22/2024 | 05/18/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 11/27/2024 |

**FROM** 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

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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 | VP131783 | 11/22/2024 | 05/18/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 11/27/2024 |

**FROM** 0.02000ml of V14289 + 9.98000ml of V14154 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1810 | 8260 Working Std(2-CVE)-800ppm | VP132035 | 12/10/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

**FROM** 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final Quantity: 50.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1811 | 8260 Working Std(2-CVE)-500ppm | VP132036 | 12/10/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

**FROM** 7.50000ml of V14614 + 12.50000ml of VP132035 = Final Quantity: 20.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 719 | 8260 Working STD (BCM)-First source, 400PPM | VP132096 | 12/12/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/19/2024 |

**FROM** 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final Quantity: 25.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 252 | 8260 Working STD (BCM)-First source, 100PPM | VP132098 | 12/12/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/19/2024 |

**FROM** 1.25000ml of V13466 + 23.75000ml of V14614 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 51 | 8260 Working STD (Acrolein) -first source, 800PPM | VP132468 | 01/08/2025 | 02/07/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 01/17/2025 |

**FROM** 1.00000ml of V14832 + 1.50000ml of V14830 + 1.50000ml of V14831 + 21.00000ml of V14627 = Final Quantity: 25.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 56 | 8260 Working STD (Acrolein) -first source, 500PPM | VP132469 | 01/08/2025 | 02/07/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 01/17/2025 |

**FROM** 5.62500ml of V14627 + 9.37500ml of VP132468 = Final Quantity: 15.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 257 | 8260 Calibration Working STD Mix-First source, 160PPM | VP132613 | 01/20/2025 | 02/28/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 01/29/2025 |

**FROM** 0.40000ml of V13446 + 1.00000ml of V14175 + 1.00000ml of V14176 + 1.00000ml of V14433 + 1.00000ml of V14439 + 1.00000ml of V14521 + 1.00000ml of V14522 + 1.00000ml of V14722 + 1.00000ml of V14754 + 1.00000ml of V14756 + 1.00000ml of V14801 + 1.00000ml of V14814 + 1.50000ml of V14723 + 1.50000ml of V14724 + 10.60000ml of V14624 = Final Quantity: 25.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 244 | 8260 Calibration Working STD Mix-First source, 100PPM | VP132614 | 01/20/2025 | 02/28/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 01/29/2025 |

**FROM** 5.62500ml of V14624 + 9.37500ml of VP132613 = Final Quantity: 15.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 732 | BFB TUNE CHECK - SOIL | VP132687 | 01/27/2025 | 01/28/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 01/29/2025 |

**FROM** 4.99800ml of W3112 = 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 | VP132688 | 01/27/2025 | 01/28/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 01/29/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP130432 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP132469 + 0.00250ml of VP132614 + 0.00500ml of VP131783 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP132689 | 01/27/2025 | 01/28/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 01/29/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP130432 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP132469 + 0.00250ml of VP132614 + 0.00500ml of VP131783 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 589 | BFB TUNE CHECK | VP132698 | 01/27/2025 | 01/28/2025 | John Carlone | None | None | Mahesh Dadoda 01/29/2025 |

**FROM** 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 620 | 50 PPB CCC, 8260-Water | VP132699 | 01/27/2025 | 01/28/2025 | John Carlone | None | None | Mahesh Dadoda 01/29/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132468 + 0.01250ml of VP132613 = Final Quantity: 40.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 620 | 50 PPB CCC, 8260-Water | VP132700 | 01/27/2025 | 01/28/2025 | John Carlone | None | None | Mahesh Dadoda 01/29/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132468 + 0.01250ml of VP132613 = Final Quantity: 40.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 589 | BFB TUNE CHECK | VP132723 | 01/28/2025 | 01/29/2025 | John Carlone | None | None | Mahesh Dadoda 01/29/2025 |

**FROM** 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 620 | 50 PPB CCC, 8260-Water | VP132724 | 01/28/2025 | 01/29/2025 | John Carlone | None | None | Mahesh Dadoda 01/29/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132468 + 0.01250ml of VP132613 = Final Quantity: 40.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 620 | 50 PPB CCC, 8260-Water | VP132725 | 01/28/2025 | 01/29/2025 | John Carlone | None | None | Mahesh Dadoda 01/29/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132468 + 0.01250ml of VP132613 = Final Quantity: 40.000 ml

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30067 / BFB tuneing solution | A0191805 | 11/22/2025 | 11/22/2024 / SAM | 01/13/2023 / SAM | V13391 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM | A0181905 | 02/28/2025 | 01/10/2025 / SAM | 01/23/2023 / SAM | V13446 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0193071 | 06/12/2025 | 12/12/2024 / SAM | 01/27/2023 / SAM | V13457 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0193071 | 06/12/2025 | 12/12/2024 / SAM | 01/27/2023 / SAM | V13460 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0193071 | 06/12/2025 | 12/12/2024 / SAM | 01/27/2023 / SAM | V13465 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0193071 | 06/12/2025 | 12/12/2024 / SAM | 01/27/2023 / SAM | V13466 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2] | A0196865 | 06/10/2025 | 06/10/2024 / SAM | 04/12/2023 / SAM | V13707 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 22L0562016 | 02/28/2025 | 08/29/2024 / SAM | 02/06/2024 / SAM | V14145 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 22L0562016 | 05/18/2025 | 11/18/2024 / pedro | 02/06/2024 / SAM | V14154 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021624 | 07/10/2025 | 01/10/2025 / SAM | 02/20/2024 / SAM | V14175 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021624 | 07/10/2025 | 01/10/2025 / SAM | 02/20/2024 / SAM | V14176 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555581 / Custom Standard, 8260 Internal Std [CS 5179-1] | A0210184 | 11/22/2025 | 11/22/2024 / SAM | 04/15/2024 / SAM | V14289 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0209618 | 07/10/2025 | 01/10/2025 / SAM | 08/15/2024 / SAM | V14433 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0209618 | 07/10/2025 | 01/10/2025 / SAM | 08/15/2024 / SAM | V14439 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95319 / Revised Additions Mix (Min = 5) | 091724 | 07/10/2025 | 01/10/2025 / SAM | 09/18/2024 / SAM | V14521 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95319 / Revised Additions Mix (Min = 5) | 091724 | 07/10/2025 | 01/10/2025 / SAM | 09/18/2024 / SAM | V14522 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 22L0562016 | 06/10/2025 | 12/10/2024 / SAM | 11/26/2024 / SAM | V14614 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 23I0762004 | 07/13/2025 | 01/13/2025 / SAM | 11/26/2024 / SAM | V14624 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 23I0762004 | 07/06/2025 | 01/06/2025 / SAM | 11/26/2024 / SAM | V14627 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 06/10/2025 | 12/10/2024 / SAM | 12/06/2024 / SAM | V14630 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 06/10/2025 | 12/10/2024 / SAM | 12/06/2024 / SAM | V14631 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 06/10/2025 | 12/10/2024 / SAM | 12/06/2024 / SAM | V14632 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 06/10/2025 | 12/10/2024 / SAM | 12/06/2024 / SAM | V14633 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A02110618 | 07/10/2025 | 01/10/2025 / SAM | 12/17/2024 / SAM | V14722 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A02110618 | 07/10/2025 | 01/10/2025 / SAM | 12/17/2024 / SAM | V14723 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A02110618 | 07/10/2025 | 01/10/2025 / SAM | 12/17/2024 / SAM | V14724 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml | A0216826 | 05/31/2031 | 01/10/2025 / SAM | 12/17/2024 / SAM | V14754 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml | A0216826 | 07/10/2025 | 01/10/2025 / SAM | 12/17/2024 / SAM | V14756 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS | A0220563 | 06/30/2026 | 01/10/2025 / SAM | 01/08/2025 / SAM | V14801 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS | A0220471 | 07/10/2025 | 01/10/2025 / SAM | 01/08/2025 / SAM | V14814 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 010725 | 02/07/2025 | 01/08/2025 / SAM | 01/08/2025 / SAM | V14830 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 010725 | 02/07/2025 | 01/08/2025 / SAM | 01/08/2025 / SAM | V14831 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 010725 | 02/07/2025 | 01/08/2025 / SAM | 01/08/2025 / SAM | V14832 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.5 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.01 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.5 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.01 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Bottel

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.2 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis - Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

Dec 01/08/25

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

5 vial

| | |
|---|---|
| **Part Number:** | 91980 |
| Lot Number: | 010725 |
| Description: | Acrolein |
| Expiration Date: | 020725 |
| Recommended Storage: | Refrigerate (4 °C) |
| Nominal Concentration (µg/mL): | 5000 |
| NIST Test ID#: | 6UTB |

| **Solvent(s):** | **Lot#** |
|---|---|
| Water | 072324Q |

V14823 to V14827
~~V14829~~

| | | |
|---|---|---|
| Formulated By: | Anthony Mahoney | 010725 DATE |
| Reviewed By: | Pedro L. Rentas | 010725 DATE |

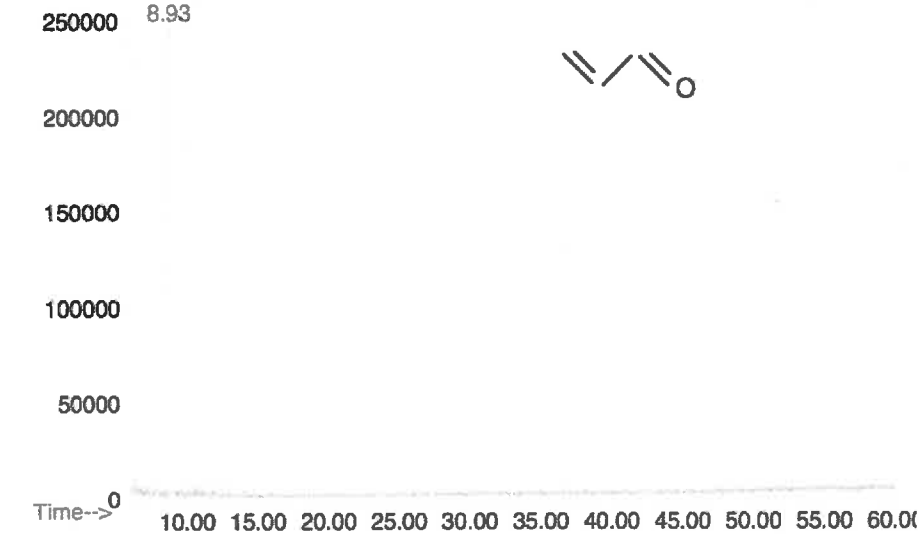
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

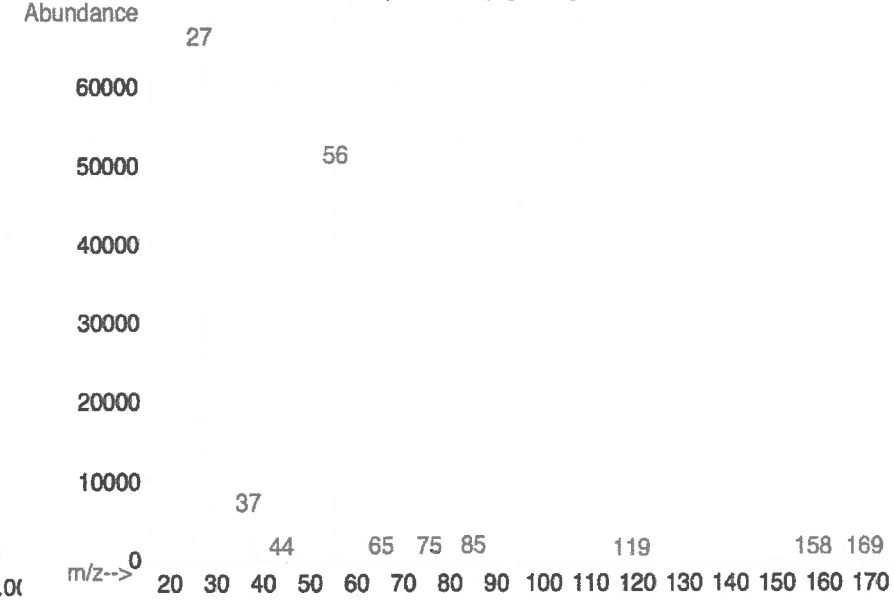
| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05178 | 5011.8 | 52.6 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D




Scan 232 (8.927 min): [BSB2]79005.D




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

**Absolute Standards Inc.**

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN WATER**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>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)**

| | | | |
|---|---|---|---|
| **P271** | **Use in ventilated area** | **H315** | **Causes skin and eye irritation.** |
| **P302,332** | **If on skin, wash with soap and water** | **P280** | **Use gloves, eye protection/face sheild** |
| | | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | % (optional) |
|---|---|---|
| Water | CAS#: 7732-18-5 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |
| **Hazardous Decomposition products** | Carbon oxides |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<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

| | | |
|---|---|---|
| Water | CAS#: 7732-18-5 | TWA: 500 ppm |

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|---|---|---|---|
| Boiling Point | 100°C | Specific Gravity (H2O = 1) | 1 |
| Vapor Pressure (mm Hg) | | Melting Point | |

| | | | |
|---|---|---|---|
| | NA | | 0°C |
| Vapor Density (AIR = 1) | NA | Evaporation rate (Butyl Acetate = 1) | NA |

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

## Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

## Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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CERTIFIED WEIGHT REPORT

5 vial

| | |
|---|---|
| **Part Number:** | 91980 |
| Lot Number: | 010725 |
| Description: | Acrolein |
| Expiration Date: | 020725 |
| Recommended Storage: | Refrigerate (4 °C) |
| Nominal Concentration (µg/mL): | 5000 |
| NIST Test ID#: | 6UTB |

| **Solvent(s):** | **Lot#** |
|---|---|
| Water | 072324Q |

V14823 to V14827
~~V14829~~

| | | |
|---|---|---|
| Formulated By: | Anthony Mahoney | 010725 DATE |
| Reviewed By: | Pedro L. Rentas | 010725 DATE |

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
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**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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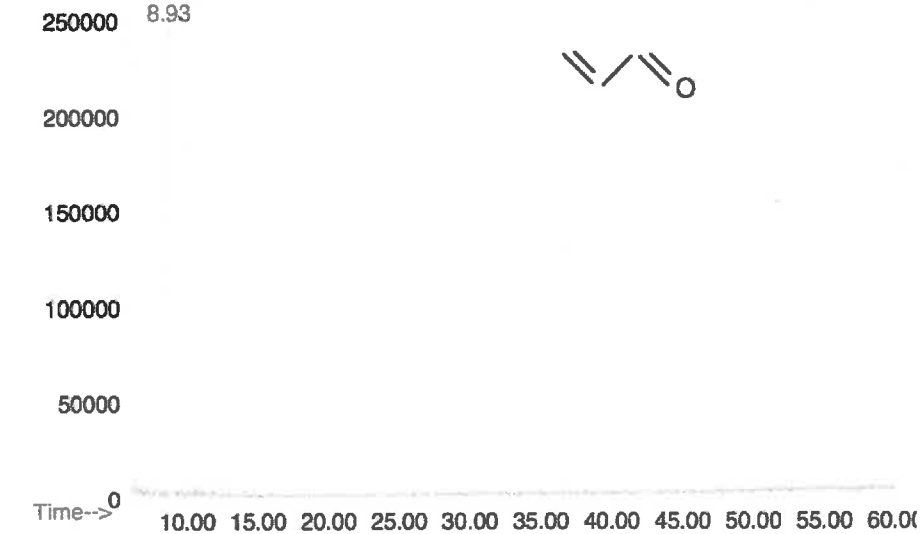


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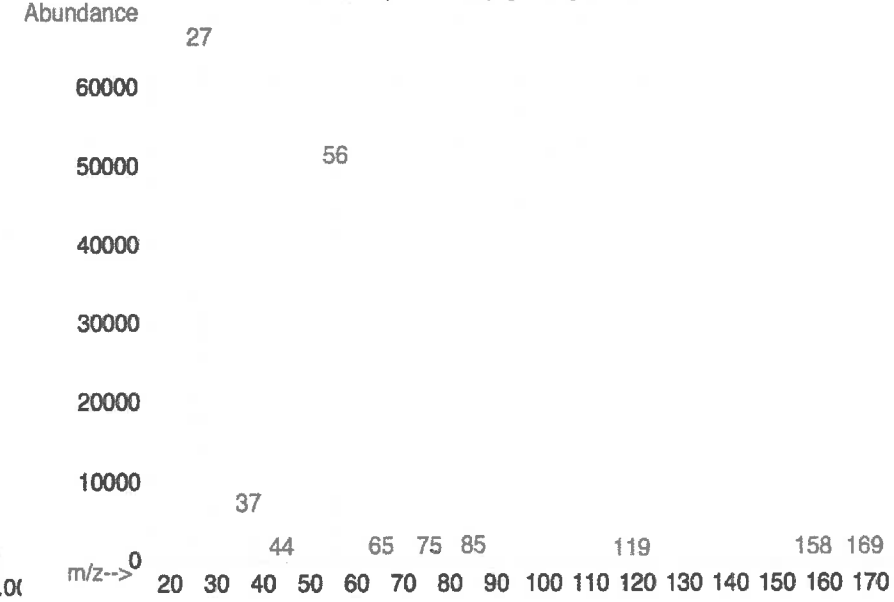


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| | | Date Prepared/Revised | January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **P271** | **Use in ventilated area** | **H315** | **Causes skin and eye irritation.** |
| **P302,332** | **If on skin, wash with soap and water** | **P280** | **Use gloves, eye protection/face sheild** |
| | | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | % (optional) |
|---|---|---|
| Water | CAS#: 7732-18-5 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |
| **Hazardous Decomposition products** | Carbon oxides |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<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

| | | |
|---|---|---|
| Water | CAS#: 7732-18-5 | TWA: 500 ppm |

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|---|---|---|---|
| Boiling Point | 100°C | Specific Gravity (H2O = 1) | 1 |
| Vapor Pressure (mm Hg) | | Melting Point | |

| | | | |
|---|---|---|---|
| | NA | | 0°C |
| Vapor Density (AIR = 1) | NA | Evaporation rate (Butyl Acetate = 1) | NA |

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
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Causes skin irritation.
Eye irritation

## Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

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Not dangerous goods
Proper shipping name: Water

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| **Solvent(s):** | **Lot#** |
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| Water | 072324Q |

V14823 to V14827
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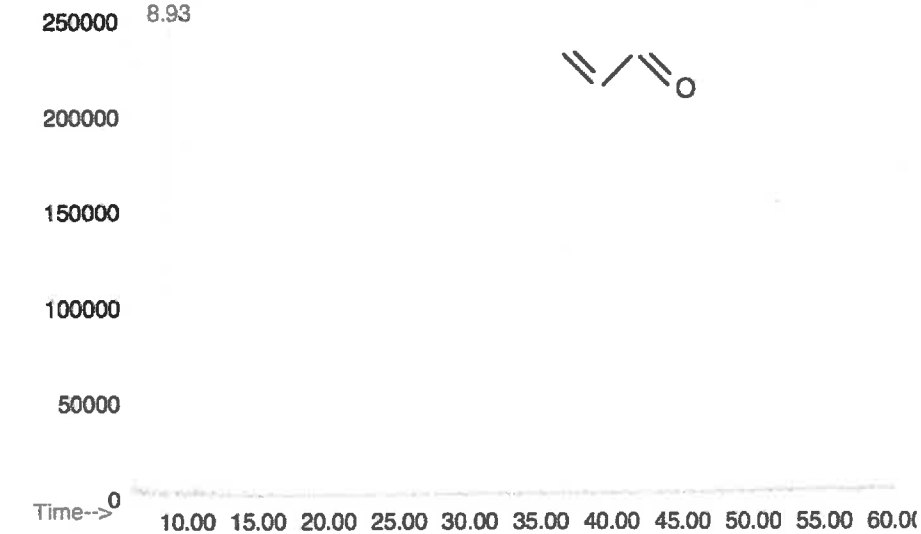


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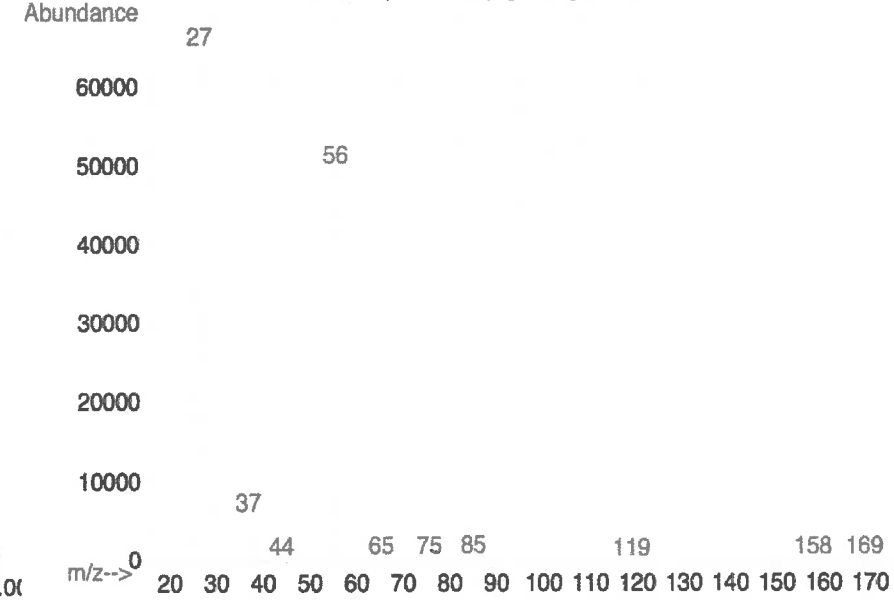


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**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | % (optional) |
|---|---|---|
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**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

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## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | |
|---|---|---|
| Water | CAS#: 7732-18-5 | TWA: 500 ppm |

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|---|---|---|---|
| Boiling Point | 100°C | Specific Gravity (H2O = 1) | 1 |
| Vapor Pressure (mm Hg) | | Melting Point | |

| | | | |
|---|---|---|---|
| | NA | | 0°C |
| Vapor Density (AIR = 1) | NA | Evaporation rate (Butyl Acetate = 1) | NA |

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

## Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

## Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

CERTIFIED WEIGHT REPORT

**Part Number:** 95317
**Lot Number:** 021624
**Description:** Universal VOA Megamix
59 components
**Expiration Date:** 021627
**Recommended Storage:** Freezer (0 °C)
**Nominal Concentration (µg/mL):** 2000
**NIST Test ID#:** 6UTB
**Weight(s) shown below were combined and diluted to (mL):** 100.0

| Solvent(s): | Lot# |
|---|---|
| Methanol | EG359-USQ12 |

5E-05 Balance Uncertainty
0.021 Flask Uncertainty

Formulated By: Prashant Chauhan — 021624 DATE
Reviewed By: Pedro L. Rentas — 021624 DATE

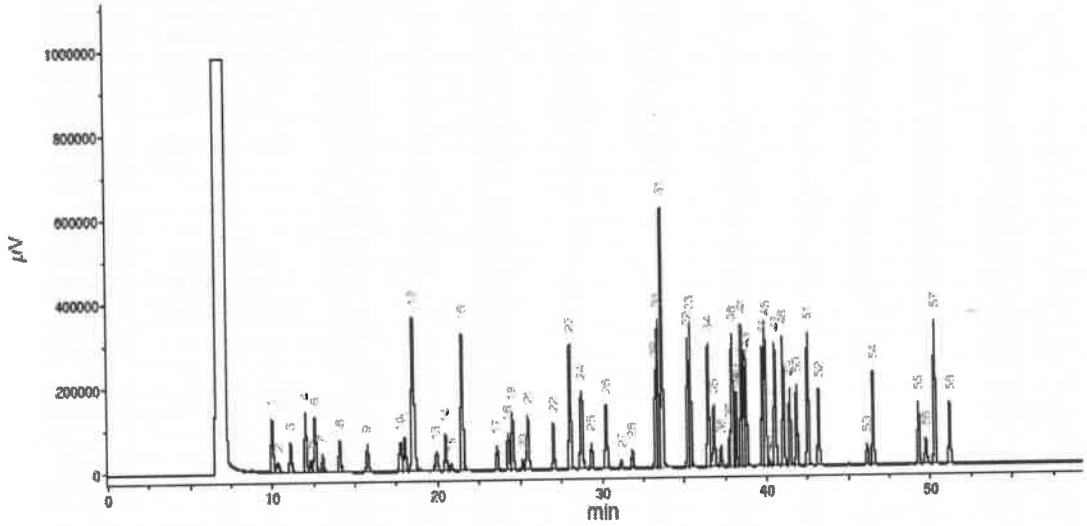
| Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(ug/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent 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 | (0486) | MKBF6041V | 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) | IK16CAS0000 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 60-29-7 | N/A | N/A |
| 7. Ethyl methacrylate | (0361) | 06126PX | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20230 | 2002.3 | 8.2 | 97-63-2 | N/A | orl-rat 14800mg/kg |
| 8. Iodomethane | (0489) | SHBF6718V | 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) | 16930 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20225 | 2001.8 | 8.2 | 76-13-1 | 1000 ppm (7600mg/m3/8H) | orl-rat 43g/kg |
| 17. Bromodichloromethane | 35171 | 101623 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-27-4 | N/A | orl-rat 916mg/kg |
| 18. Dibromochloromethane | 35171 | 101623 | 0.05 | 5.00 | 40002.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 124-48-1 | N/A | orl-rat 848mg/kg |
| 19. cis-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 156-59-2 | N/A | N/A |
| 20. trans-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 156-60-5 | N/A | orl-rat 1235mg/kg |
| 21. Methylene chloride | 35171 | 101623 | 0.05 | 5.00 | 40002.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-09-2 | 500 ppm | orl-rat 820mg/kg |
| 22. 1,1-Dichloroethene | 32251 | 102023 | 0.10 | 10.00 | 20001.6 | 2000 | NA | NA | 0.042 | NA | NA | 1999.7 | 20.4 | 75-35-4 | 1 ppm (4mg/m3/8H) | orl-rat 200mg/kg |
| 23. Bromoform | 95321 | 020724 | 0.10 | 10.00 | 20003.2 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-25-2 | 0.5 ppm (5mg/m3) (skin) | orl-rat 933mg/kg |
| 24. Carbon tetrachloride | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 56-23-5 | 2 ppm (12.6mg/m3/8H) | orl-rat 2350mg/kg |
| 25. Chloroform | 95321 | 020724 | 0.10 | 10.00 | 20024.0 | 2000 | NA | NA | 0.042 | NA | NA | 2001.9 | 20.5 | 67-66-3 | 50 ppm (240mg/m3) (CL) | orl-rat 908mg/kg |
| 26. Dibromomethane | 95321 | 020724 | 0.10 | 10.00 | 20002.9 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 74-95-3 | N/A | orl-rat 106mg/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 (46mg/m3/8H)(skin) | orl-rat 836mg/kg |
| 43. Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 79-01-6 | 50 ppm (270mg/m3/8H) | orl-mus 2402mg/kg |
| 44. 1,2,3-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 96-18-4 | 10 ppm (60mg/m3/8H) | orl-rat 149.6mg/kg |
| 45. Benzene | 35162 | 050823 | 0.05 | 5.00 | 40005.0 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 71-43-2 | 1 ppm | orl-rat 4894mg/kg |
| 46. Bromobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-86-1 | N/A | orl-rat 2699mg/kg |
| 47. n-Butyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 104-51-8 | N/A | N/A |
| 48. Ethyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-41-4 | 100 ppm (435mg/m3/8H) | orl-rat >2000mg/kg |
| 49. p-Isopropyl toluene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 99-87-6 | N/A | orl-rat 4750mg/kg |
| 50. Naphthalene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 91-20-3 | 10 ppm (50mg/m3/8H) | orl-rat 490mg/kg |
| 51. Styrene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-42-5 | 100 ppm | orl-rat 5000mg/kg |
| 52. Toluene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-88-3 | 200 ppm | orl-rat 5000mg/kg |
| 53. 1,2,3-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 87-61-6 | N/A | ipr-mus 1390mg/kg |
| 54. 1,2,4-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 120-82-1 | 5 ppm (CL) (40mg/m3) | orl-rat 750mg/kg |
| 55. 1,2,4-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40001.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 95-63-6 | N/A | orl-rat 5g/kg |
| 56. 1,3,5-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-67-8 | N/A | orl-rat 5000mg/kg |
| 57. m-Xylene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-38-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |
| 58. tert-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40001.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 98-06-6 | N/A | N/A |
| 59. sec-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 135-98-8 | N/A | orl-rat 2240mg/kg |
| 60. Chlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 108-90-7 | 75 ppm (350mg/m3/8H) | orl-rat 2290mg/kg |
| 61. 2-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40000.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 95-49-8 | 50 ppm (250mg/m3/8H) | orl-rat 3900mg/kg |
| 62. 4-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40003.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 106-43-4 | N/A | orl-rat 2100mg/kg |
| 63. 1,2-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 95-50-1 | 50 ppm (300mg/m3) (CL) | orl-rat 500mg/kg |
| 64. 1,3-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 541-73-1 | N/A | ipr-mus 1062mg/kg |
| 65. 1,4-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 106-46-7 | 75 ppm (450mg/m3/8H) | orl-rat 500mg/kg |
| 66. Isopropylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 98-82-8 | 50 ppm (245mg/m3/8H) | orl-rat 1400mg/kg |
| 67. n-Propylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 23.0 | 103-65-1 | N/A | orl-rat 6040mg/kg |
| 68. o-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40040.8 | 2000 | NA | NA | 0.017 | NA | NA | 2001.5 | 23.0 | 95-47-6 | 100 ppm (435mg/m3/8H) | ipr-mus 1384mg/kg |
| 69. p-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40000.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 106-42-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

**Run 16, "P95317 L021624 [2000µg/mL in MeOH]"**

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

**Comments**
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3




| Peak # | Name | FID RT (min.) |
|---|---|---|
| 1 | Ether | 9.97 |
| 2 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 10.33 |
| 3 | 1,1-Dichloroethane | 11.10 |
| 4 | Acetonitrile | 12.00 |
| 5 | Iodomethane | 12.31 |
| 6 | Allyl chloride | 12.56 |
| 7 | Carbon disulfide/Methylene chloride | 13.04 |
| 8 | trans-1,2-Dichloroethene | 14.07 |
| 9 | 1,1-Dichloroethane | 15.74 |
| 10 | 2,2-Dichloropropane | 17.74 |
| 11 | cis-1,2-Dichloroethene | 18.00 |
| 12 | Methacrylonitrile/Methyl acrylate/Chloroform | 18.49 |
| 13 | Isobutanol/1,1,1-Trichloroethane | 19.91 |
| 14 | 1,1-Dichloropropene | 20.46 |
| 15 | Carbon tetrachloride | 20.79 |
| 16 | Benzene/1,2-Dichloroethane | 21.49 |
| 17 | Trichloroethene | 22.58 |
| 18 | 1,2-Dichloropropane | 24.28 |
| 19 | Methyl methacrylate | 24.52 |
| 20 | Bromodichloromethane | 25.13 |
| 21 | Dibromomethane/2-Nitropropane | 25.46 |
| 22 | cis-1,3-Dichloropropene | 27.02 |
| 23 | Toluene | 28.05 |
| 24 | Ethyl methacrylate/trans-1,3-Dichloropropene | 28.73 |
| 25 | 1,1,2-Trichloroethane | 29.34 |
| 26 | Tetrachloroethene/1,3-Dichloropropane | 30.24 |
| 27 | Dibromochloromethane | 31.16 |
| 28 | 1,2-Dibromoethane | 31.84 |
| 29 | Chlorobenzene | 33.26 |
| 30 | Ethylbenzene/1,1,1,2-Tetrachloroethane | 33.40 |
| 31 | m-Xylene/p-Xylene | 33.66 |
| 32 | o-Xylene | 35.22 |
| 33 | Styrene | 35.38 |
| 34 | Isopropylbenzene/Bromoform | 36.48 |
| 35 | cis-1,4-Dichloro-2-Butene | 36.80 |
| 36 | 1,1,2,2-Tetrachloroethane | 37.23 |
| 37 | 1,2,3-Trichloropropane | 37.77 |
| 38 | n-Propylbenzene | 37.93 |
| 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 | 38.76 |
| 45 | 1,2,4-Trimethylbenzene | 39.91 |
| 46 | Pentachloroethane | 40.17 |
| 47 | sec-Butylbenzene | 40.52 |
| 48 | p-Isopropyltoluene | 41.02 |
| 49 | 1,3-Dichlorobenzene | 41.42 |
| 50 | 1,4-Dichlorobenzene | 41.83 |
| 51 | n-Butylbenzene | 42.53 |
| 52 | 1,2-Dichlorobenzene | 43.18 |
| 53 | 1,2-Dibromo-3-chloropropane | 46.12 |
| 54 | Nitrobenzene | 46.48 |
| 55 | 1,2,4-Trichlorobenzene | 49.26 |
| 56 | Hexachlorobutadiene | 49.72 |
| 57 | Naphthalene | 50.26 |
| 58 | 1,2,3-Trichlorobenzene | 51.16 |

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2023 |

## Section II - Hazards Identification

**GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |



**Signal Word: DANGER**

## Section III - Composition

| Components (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.

CERTIFIED WEIGHT REPORT

**Part Number:** 95317
**Lot Number:** 021624
**Description:** Universal VOA Megamix
59 components
**Expiration Date:** 021627
**Recommended Storage:** Freezer (0 °C)
**Nominal Concentration (µg/mL):** 2000
**NIST Test ID#:** 6UTB
**Weight(s) shown below were combined and diluted to (mL):** 100.0

| Solvent(s): | Lot# |
|---|---|
| Methanol | EG359-USQ12 |

5E-05 Balance Uncertainty
0.021 Flask Uncertainty

Formulated By: Prashant Chauhan — 021624 DATE
Reviewed By: Pedro L. Rentas — 021624 DATE

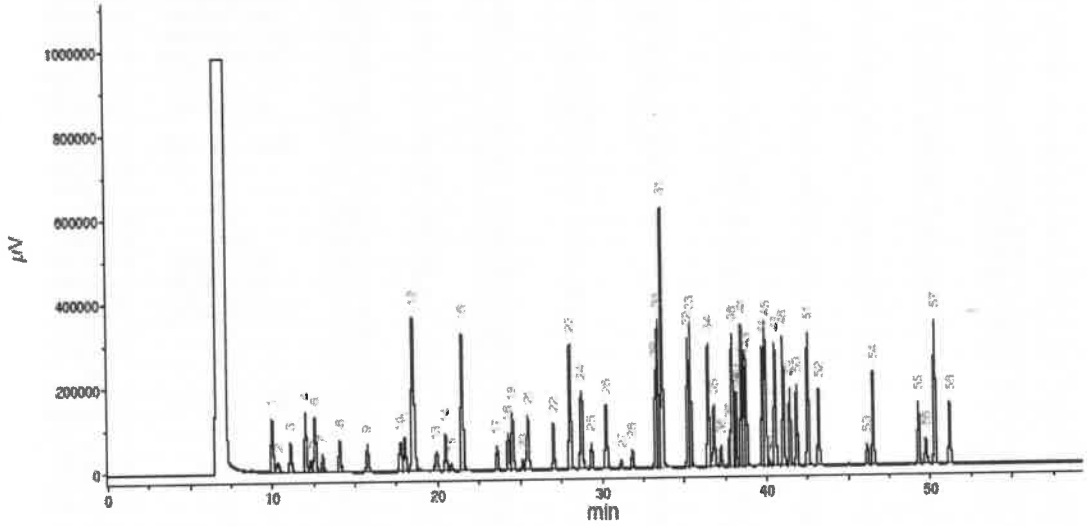
| Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(ug/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent 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 | (0486) | MKBF6041V | 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) | IK16CAS0000 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 60-29-7 | N/A | N/A |
| 7. Ethyl methacrylate | (0361) | 06126PX | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20230 | 2002.3 | 8.2 | 97-63-2 | N/A | orl-rat 14800mg/kg |
| 8. Iodomethane | (0489) | SHBF6718V | 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) | 16930 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20225 | 2001.8 | 8.2 | 76-13-1 | 1000 ppm (7600mg/m3/8H) | orl-rat 43g/kg |
| 17. Bromodichloromethane | 35171 | 101623 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-27-4 | N/A | orl-rat 916mg/kg |
| 18. Dibromochloromethane | 35171 | 101623 | 0.05 | 5.00 | 40002.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 124-48-1 | N/A | orl-rat 848mg/kg |
| 19. cis-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 156-59-2 | N/A | N/A |
| 20. trans-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 156-60-5 | N/A | orl-rat 1235mg/kg |
| 21. Methylene chloride | 35171 | 101623 | 0.05 | 5.00 | 40002.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-09-2 | 500 ppm | orl-rat 820mg/kg |
| 22. 1,1-Dichloroethene | 32251 | 102023 | 0.10 | 10.00 | 20001.6 | 2000 | NA | NA | 0.042 | NA | NA | 1999.7 | 20.4 | 75-35-4 | 1 ppm (4mg/m3/8H) | orl-rat 200mg/kg |
| 23. Bromoform | 95321 | 020724 | 0.10 | 10.00 | 20003.2 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-25-2 | 0.5 ppm (5mg/m3) (skin) | orl-rat 933mg/kg |
| 24. Carbon tetrachloride | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 56-23-5 | 2 ppm (12.6mg/m3/8H) | orl-rat 2350mg/kg |
| 25. Chloroform | 95321 | 020724 | 0.10 | 10.00 | 20024.0 | 2000 | NA | NA | 0.042 | NA | NA | 2001.9 | 20.5 | 67-66-3 | 50 ppm (240mg/m3) (CL) | orl-rat 908mg/kg |
| 26. Dibromomethane | 95321 | 020724 | 0.10 | 10.00 | 20002.9 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 74-95-3 | N/A | orl-rat 106mg/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 (46mg/m3/8H)(skin) | orl-rat 836mg/kg |
| 43. Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 79-01-6 | 50 ppm (270mg/m3/8H) | orl-mus 2402mg/kg |
| 44. 1,2,3-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 96-18-4 | 10 ppm (60mg/m3/8H) | orl-rat 149.6mg/kg |
| 45. Benzene | 35162 | 050823 | 0.05 | 5.00 | 40005.0 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 71-43-2 | 1 ppm | orl-rat 4894mg/kg |
| 46. Bromobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-86-1 | N/A | orl-rat 2699mg/kg |
| 47. n-Butyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 104-51-8 | N/A | N/A |
| 48. Ethyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-41-4 | 100 ppm (435mg/m3/8H) | orl-rat >2000mg/kg |
| 49. p-Isopropyl toluene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 99-87-6 | N/A | orl-rat 4750mg/kg |
| 50. Naphthalene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 91-20-3 | 10 ppm (50mg/m3/8H) | orl-rat 490mg/kg |
| 51. Styrene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-42-5 | 100 ppm | orl-rat 5000mg/kg |
| 52. Toluene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-88-3 | 200 ppm | orl-rat 5000mg/kg |
| 53. 1,2,3-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 87-61-6 | N/A | ipr-mus 1390mg/kg |
| 54. 1,2,4-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 120-82-1 | 5 ppm (CL) (40mg/m3) | orl-rat 750mg/kg |
| 55. 1,2,4-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40001.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 95-63-6 | N/A | orl-rat 5g/kg |
| 56. 1,3,5-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-67-8 | N/A | orl-rat 5000mg/kg |
| 57. m-Xylene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-38-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |
| 58. tert-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40001.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 98-06-6 | N/A | N/A |
| 59. sec-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 135-98-8 | N/A | orl-rat 2240mg/kg |
| 60. Chlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 108-90-7 | 75 ppm (350mg/m3/8H) | orl-rat 2290mg/kg |
| 61. 2-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40000.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 95-49-8 | 50 ppm (250mg/m3/8H) | orl-rat 3900mg/kg |
| 62. 4-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40003.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 106-43-4 | N/A | orl-rat 2100mg/kg |
| 63. 1,2-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 95-50-1 | 50 ppm (300mg/m3) (CL) | orl-rat 500mg/kg |
| 64. 1,3-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 541-73-1 | N/A | ipr-mus 1062mg/kg |
| 65. 1,4-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 106-46-7 | 75 ppm (450mg/m3/8H) | orl-rat 500mg/kg |
| 66. Isopropylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 98-82-8 | 50 ppm (245mg/m3/8H) | orl-rat 1400mg/kg |
| 67. n-Propylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 23.0 | 103-65-1 | N/A | orl-rat 6040mg/kg |
| 68. o-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40040.8 | 2000 | NA | NA | 0.017 | NA | NA | 2001.5 | 23.0 | 95-47-6 | 100 ppm (435mg/m3/8H) | ipr-mus 1384mg/kg |
| 69. p-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40000.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 106-42-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

**Run 16, "P95317 L021624 [2000µg/mL in MeOH]"**

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

**Comments**
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3




| Peak # | Name | FID RT (min.) |
|---|---|---|
| 1 | Ether | 9.97 |
| 2 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 10.33 |
| 3 | 1,1-Dichloroethane | 11.10 |
| 4 | Acetonitrile | 12.00 |
| 5 | Iodomethane | 12.31 |
| 6 | Allyl chloride | 12.56 |
| 7 | Carbon disulfide/Methylene chloride | 13.04 |
| 8 | trans-1,2-Dichloroethene | 14.07 |
| 9 | 1,1-Dichloroethane | 15.74 |
| 10 | 2,2-Dichloropropane | 17.74 |
| 11 | cis-1,2-Dichloroethene | 18.00 |
| 12 | Methacrylonitrile/Methyl acrylate/Chloroform | 18.49 |
| 13 | Isobutanol/1,1,1-Trichloroethane | 19.91 |
| 14 | 1,1-Dichloropropene | 20.46 |
| 15 | Carbon tetrachloride | 20.79 |
| 16 | Benzene/1,2-Dichloroethane | 21.49 |
| 17 | Trichloroethene | 22.58 |
| 18 | 1,2-Dichloropropane | 24.28 |
| 19 | Methyl methacrylate | 24.52 |
| 20 | Bromodichloromethane | 25.13 |
| 21 | Dibromomethane/2-Nitropropane | 25.46 |
| 22 | cis-1,3-Dichloropropene | 27.02 |
| 23 | Toluene | 28.05 |
| 24 | Ethyl methacrylate/trans-1,3-Dichloropropene | 28.73 |
| 25 | 1,1,2-Trichloroethane | 29.34 |
| 26 | Tetrachloroethene/1,3-Dichloropropane | 30.24 |
| 27 | Dibromochloromethane | 31.16 |
| 28 | 1,2-Dibromoethane | 31.84 |
| 29 | Chlorobenzene | 33.26 |
| 30 | Ethylbenzene/1,1,1,2-Tetrachloroethane | 33.40 |
| 31 | m-Xylene/p-Xylene | 33.66 |
| 32 | o-Xylene | 35.22 |
| 33 | Styrene | 35.38 |
| 34 | Isopropylbenzene/Bromoform | 36.48 |
| 35 | cis-1,4-Dichloro-2-Butene | 36.80 |
| 36 | 1,1,2,2-Tetrachloroethane | 37.23 |
| 37 | 1,2,3-Trichloropropane | 37.77 |
| 38 | n-Propylbenzene | 37.93 |
| 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 | 38.76 |
| 45 | 1,2,4-Trimethylbenzene | 39.91 |
| 46 | Pentachloroethane | 40.17 |
| 47 | sec-Butylbenzene | 40.52 |
| 48 | p-Isopropyltoluene | 41.02 |
| 49 | 1,3-Dichlorobenzene | 41.42 |
| 50 | 1,4-Dichlorobenzene | 41.83 |
| 51 | n-Butylbenzene | 42.53 |
| 52 | 1,2-Dichlorobenzene | 43.18 |
| 53 | 1,2-Dibromo-3-chloropropane | 46.12 |
| 54 | Nitrobenzene | 46.48 |
| 55 | 1,2,4-Trichlorobenzene | 49.26 |
| 56 | Hexachlorobutadiene | 49.72 |
| 57 | Naphthalene | 50.26 |
| 58 | 1,2,3-Trichlorobenzene | 51.16 |

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2023 |

## Section II - Hazards Identification

**GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |



**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

Rec 09/16/24 2 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

**Part Number:** 91980
Lot Number: 091424
Description: Acrolein

**Solvent(s):** **Lot#**
Water 072324Q

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

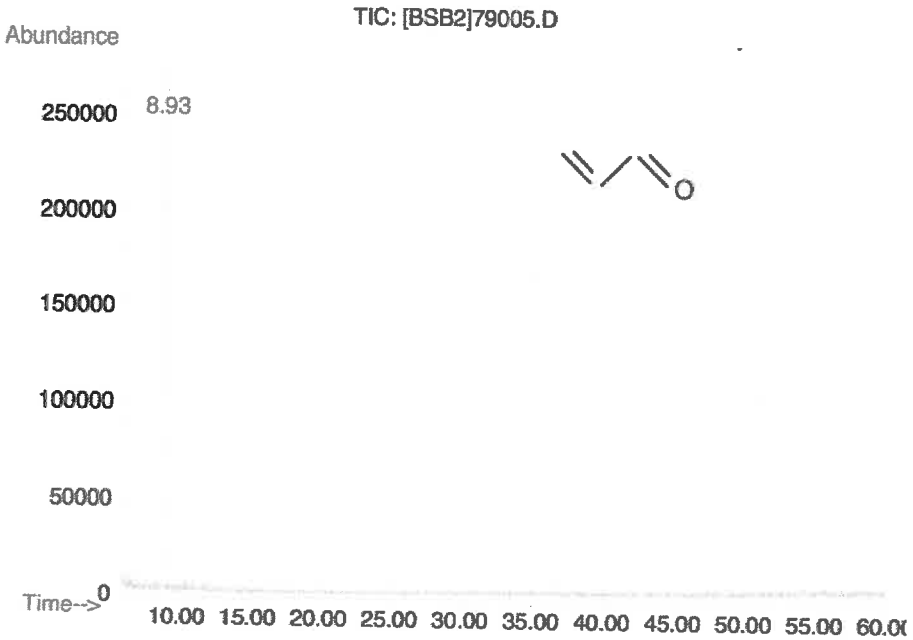
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

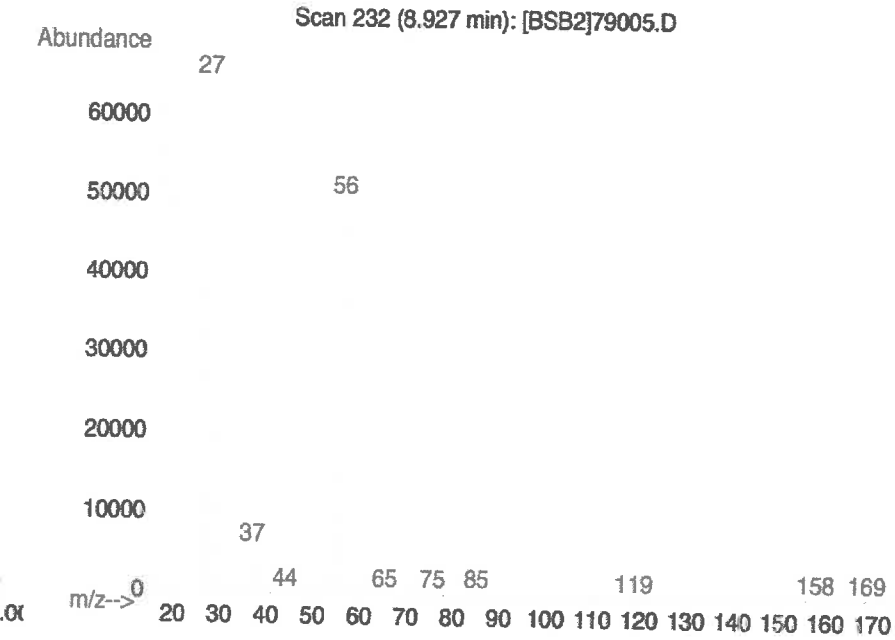
Formulated By: Justin Dippold 091424 DATE

Reviewed By: Pedro L. Rentas 091424 DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05175 | 5008.9 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are 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.**
800-368-1131
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***Certified Reference Material CRM***

Rec 09/16/24 2 vial

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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

**Part Number:** 91980
Lot Number: 091424
Description: Acrolein

**Solvent(s):** **Lot#**
Water 072324Q

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

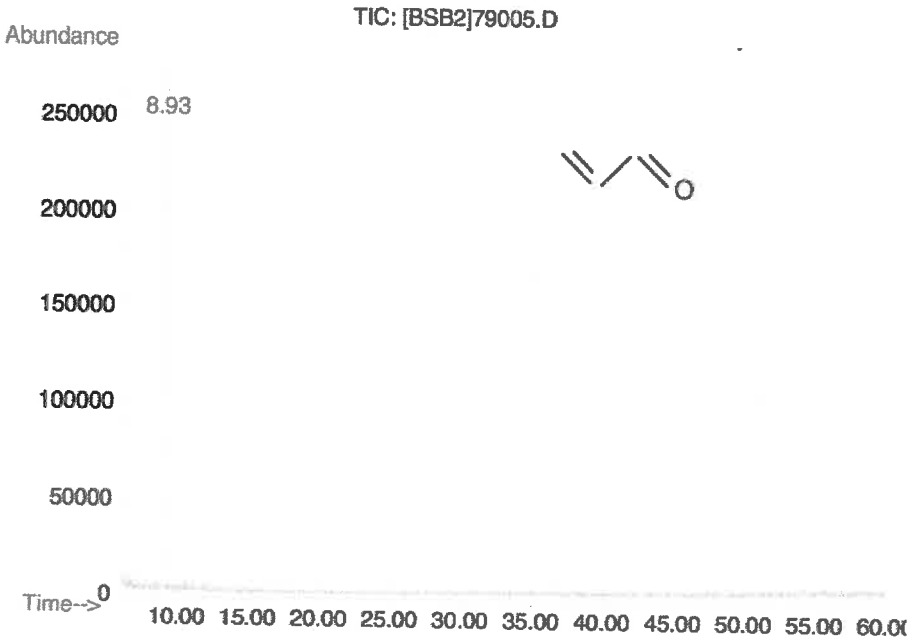
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

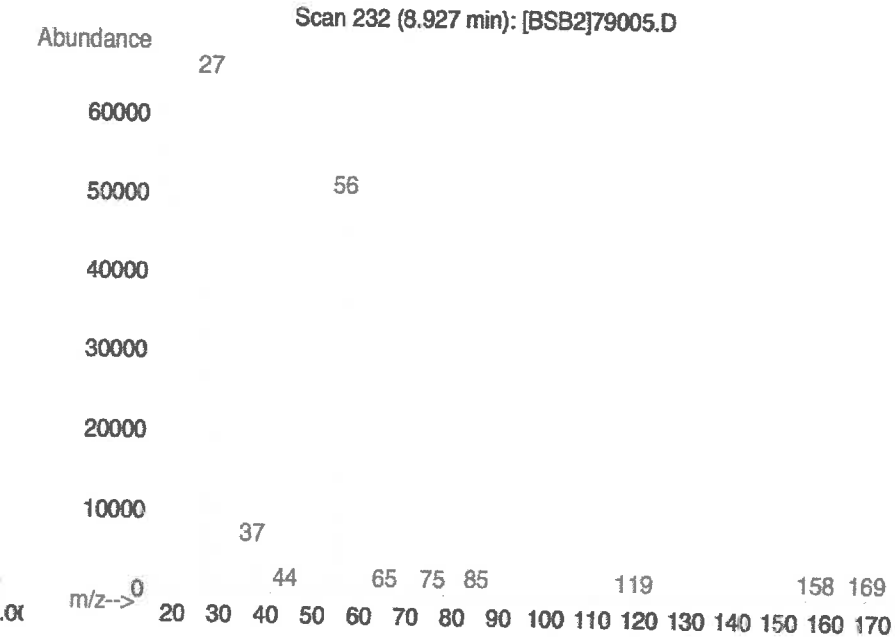
Formulated By: Justin Dippold 091424 DATE

Reviewed By: Pedro L. Rentas 091424 DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05175 | 5008.9 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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**Absolute Standards, Inc.**
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www.absolutestandards.com

***Certified Reference Material CRM***

Exp 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

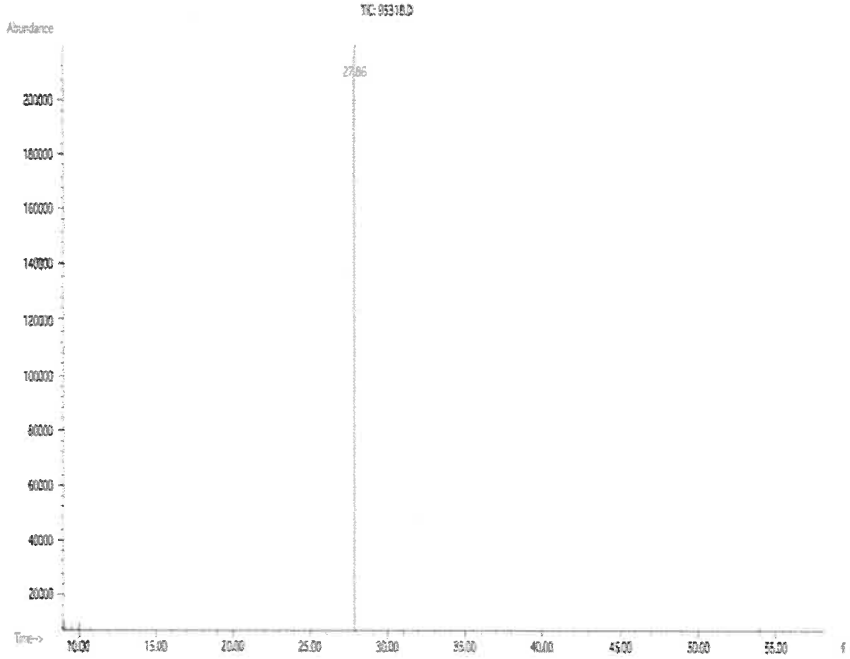
V14630 to
V14649

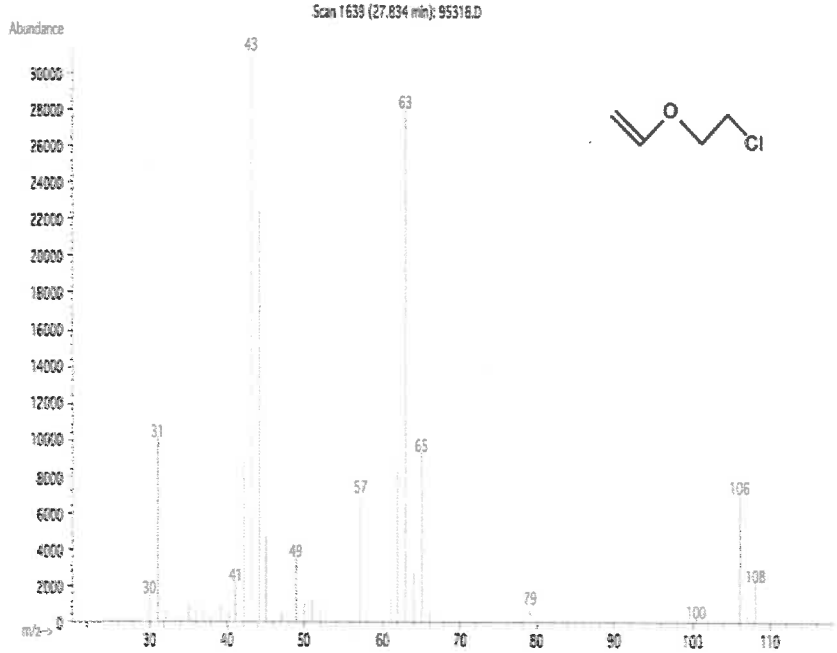
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| | | |
|---|---|---|
| Prashant Chauhan | | 120524 |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | | 120524 |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







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- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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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

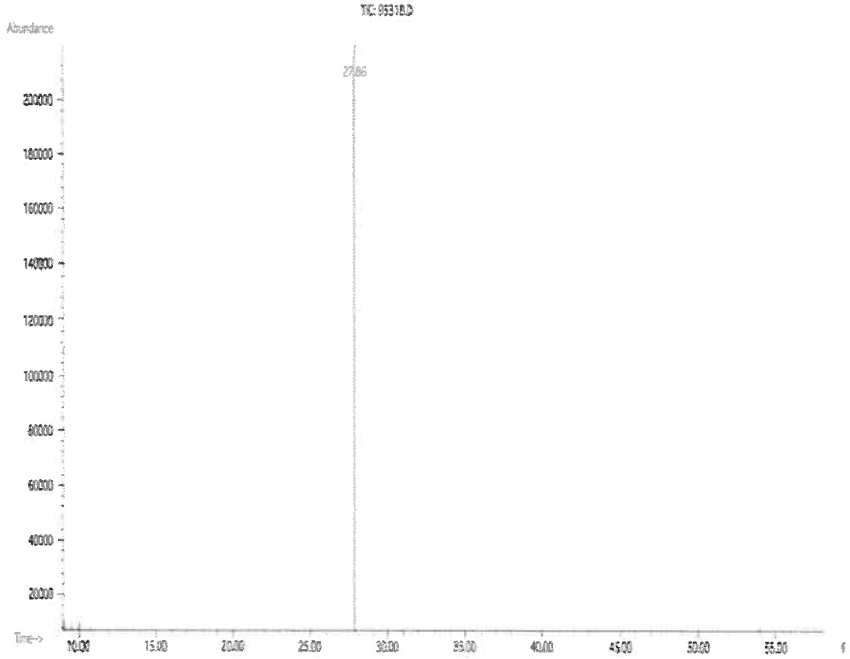
V14630 to
V14649

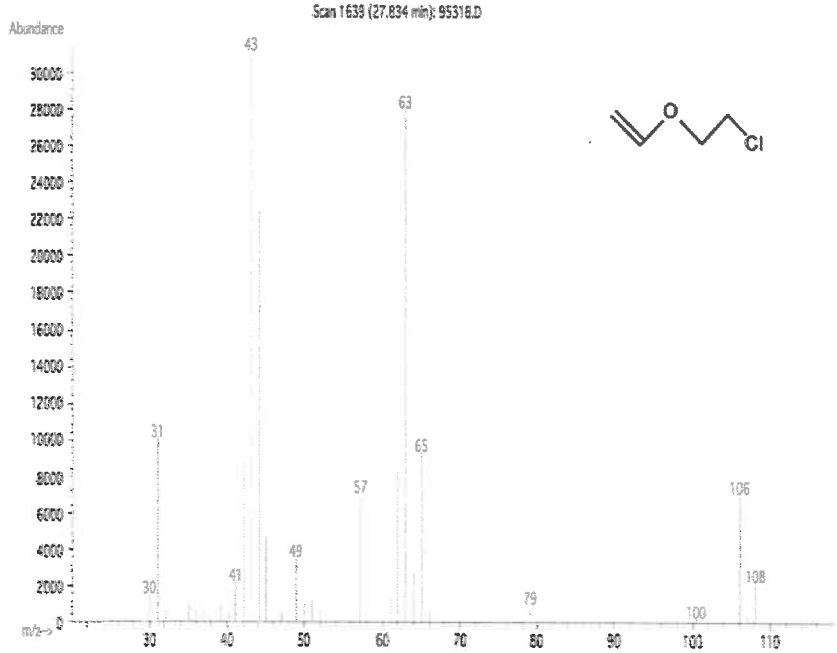
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| | | |
|---|---|---|
| Prashant Chauhan | | 120524 |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | | 120524 |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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## 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

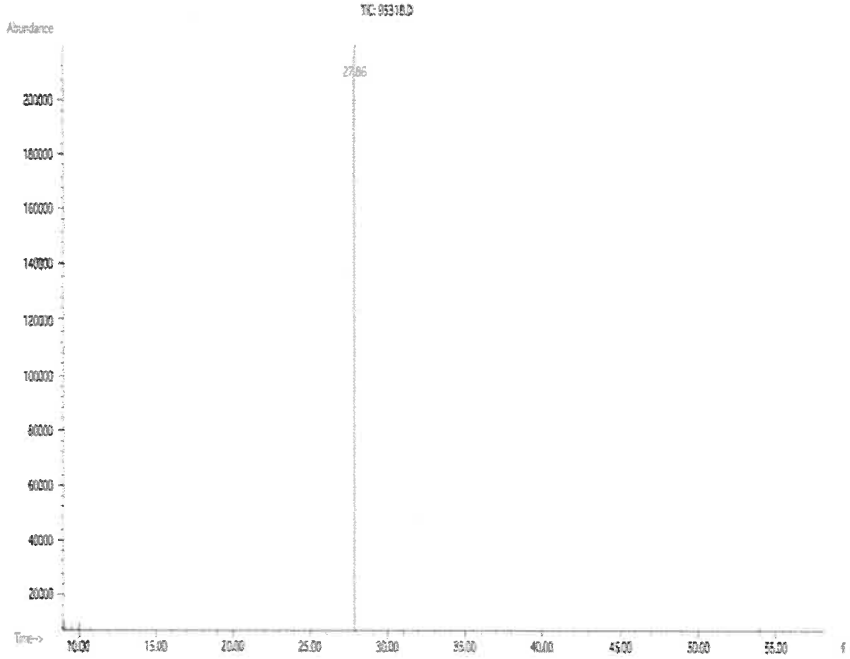
V14630 to
V14649

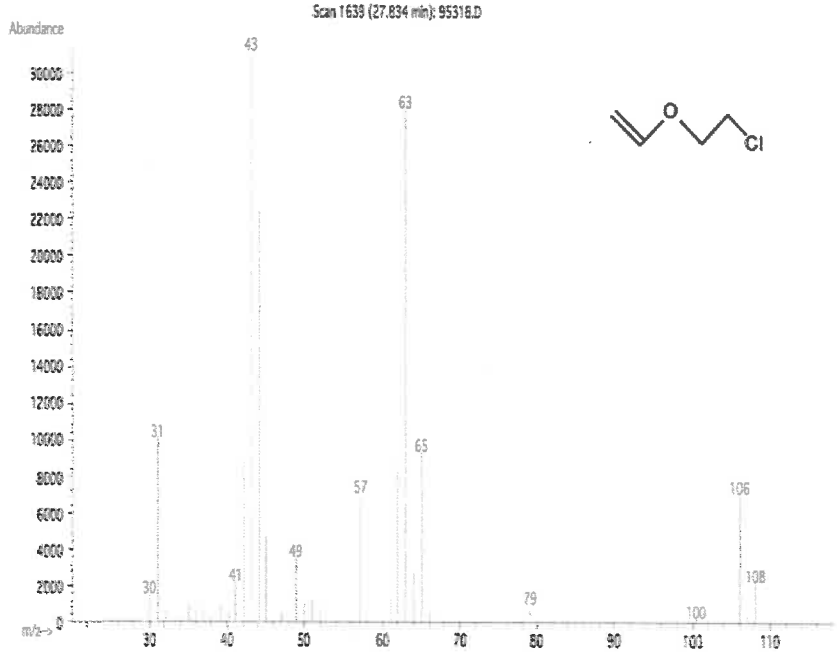
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| | | |
|---|---|---|
| Prashant Chauhan | | 120524 |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | | 120524 |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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***Certified Reference Material CRM***

Exp 12/6/24
20 vial

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AR-1539 Certificate Number
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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

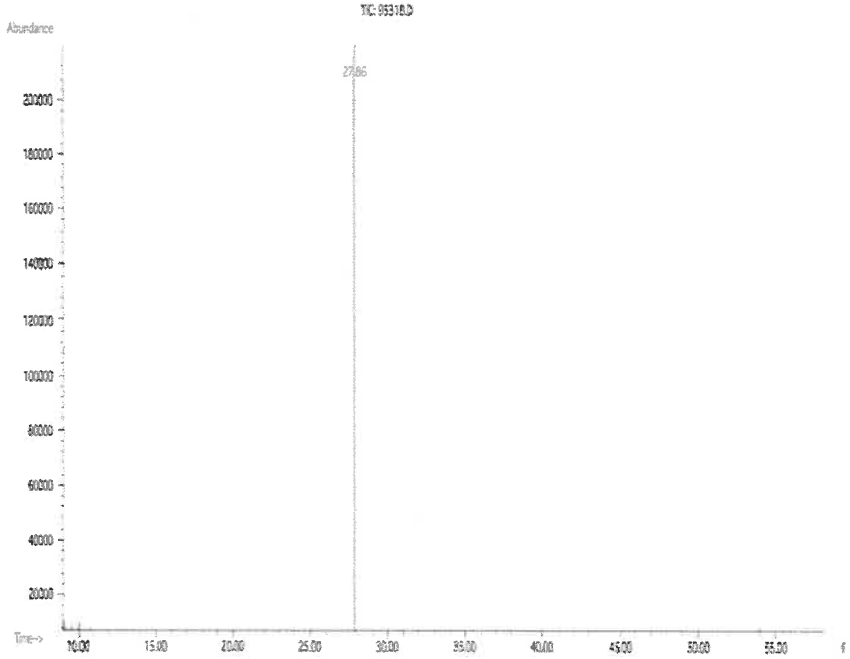
V14630 to
V14649

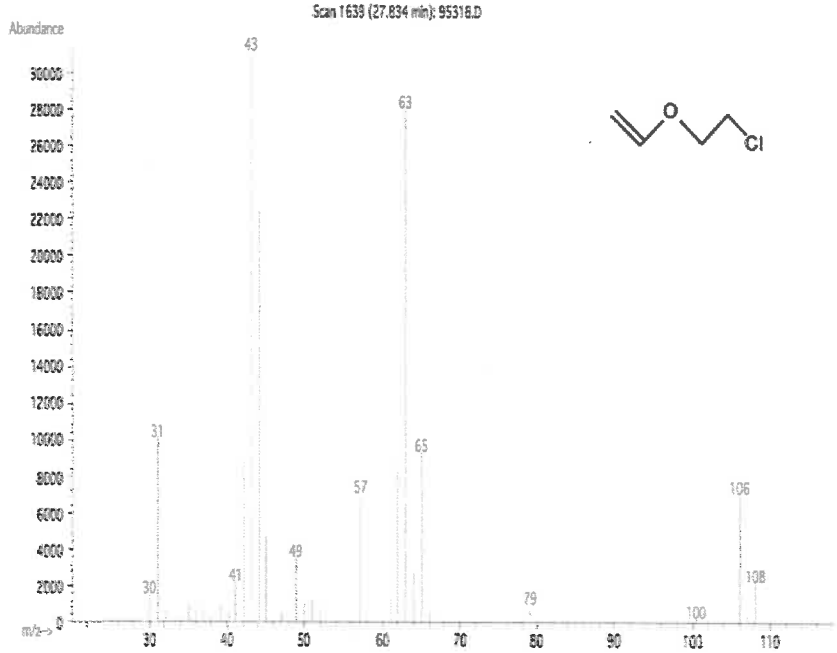
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| | | |
|---|---|---|
| Prashant Chauhan | | 120524 |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | | 120524 |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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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.

110 Benner Circle
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Fax: (814)353-1309

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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30470 **Lot No.:** A0181905

**Description :** tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2025 **Storage:** 0°C or colder

**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | tert-Butanol (TBA) | 50,126.0 µg/mL | +/- 293.4988 µg/mL | Gravimetric |
| | **CAS #** 75-65-0 (Lot SHBM7694) | | +/- 1,073.7654 µg/mL | Unstressed |
| | **Purity** 99% | | +/- 1,104.9494 µg/mL | Stressed |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

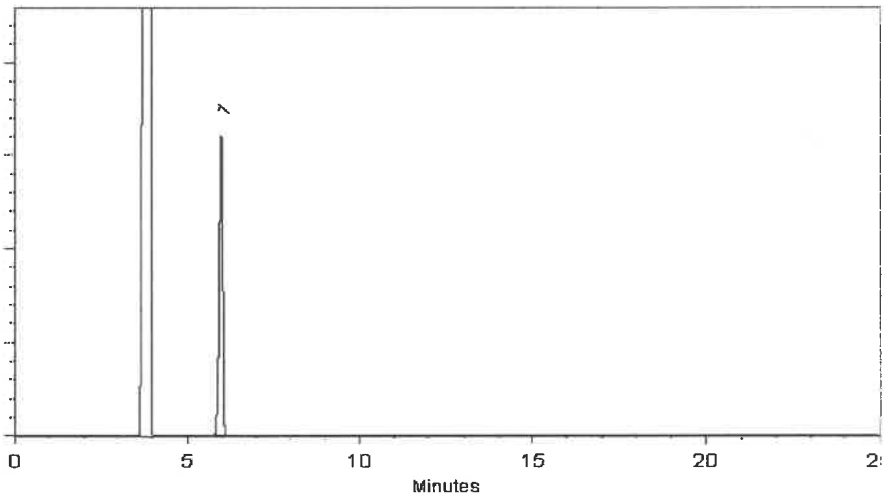
**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

**Date Mixed:** 16-Feb-2022 **Balance:** B442140311

Marlina Cowan - Operations Tech I

**Date Passed:** 21-Feb-2022

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

**General Certified Reference Material Notes**

**Expiration Notes:**

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

**Purity Notes:**

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

**Certified Uncertainty Value Notes:**

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  *k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions | Standard Conditions | Non-Standard Conditions |
|---|---|---|
| 25°C Nominal (Room Temperature) | < 60°C | ≥ 60°C up to 7 days |
| 10°C or colder (Refrigerate) | < 40°C | ≥ 40°C up to 7 days |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

**Manufacturing Notes:**

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

**Handling Notes:**

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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**Catalog No. :** 30067 **Lot No.:** A0191805

**Description :** 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4 | 184975 | 99% | 2,483.9 µg/mL | +/- 139.5488 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol

**CAS #** 67-56-1

**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

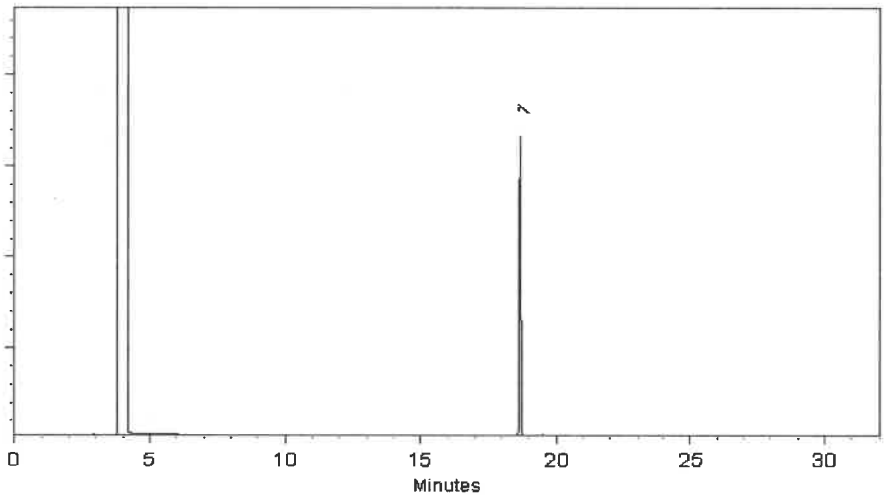
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

**Date Mixed:** 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 21-Nov-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- 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. :** 30225 **Lot No.:** A0193071

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Bromochloromethane | 74-97-5 | 00008541 | 99% | 2,018.0 µg/mL | +/- 113.3890 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

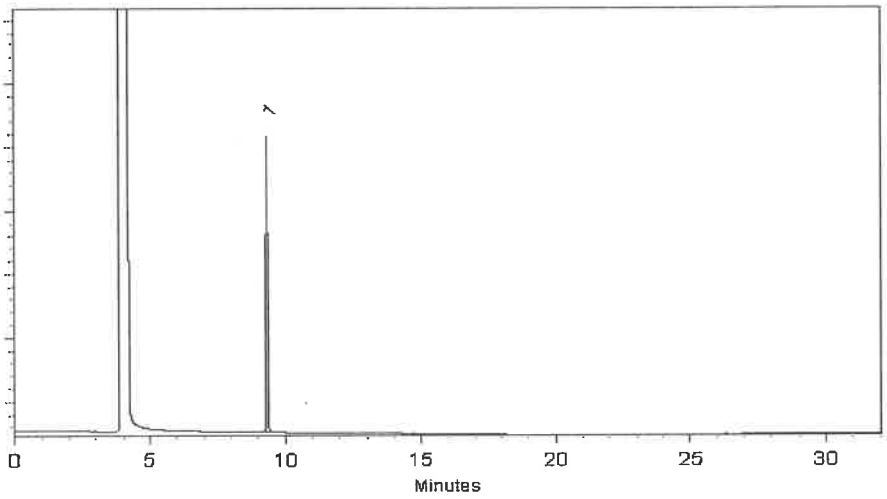
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 03-Jan-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

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### Handling Notes:

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**Catalog No. :** 30225 **Lot No.:** A0193071

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
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* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

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105m x 0.53mm x 3.0µm
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**Carrier Gas:**
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**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

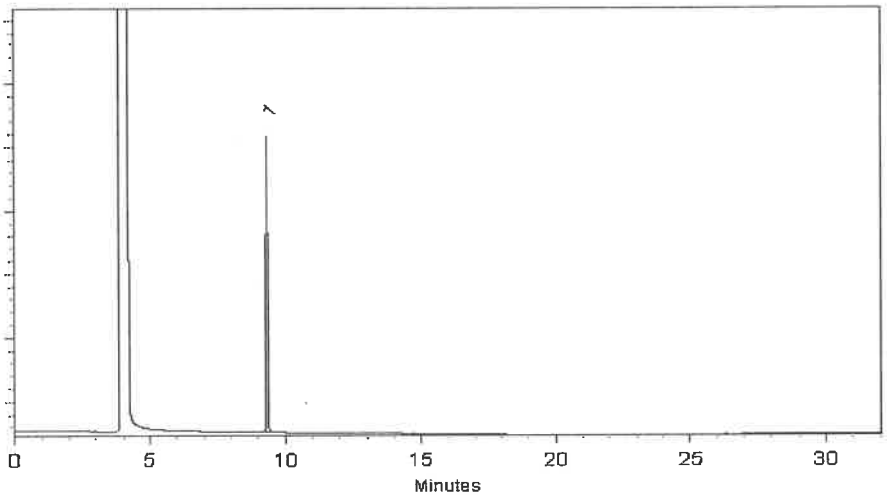
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl

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Tom Suckar - Mix Technician

**Date Mixed:** 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 03-Jan-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

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### Manufacturing Notes:

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**Catalog No. :** 30225 **Lot No.:** A0193071

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
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* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

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hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

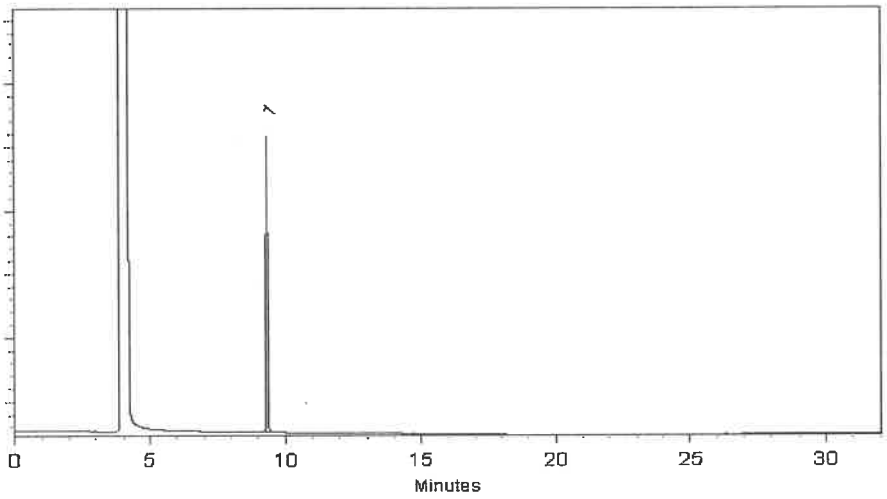
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 03-Jan-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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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. :** 30225 **Lot No.:** A0193071

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Bromochloromethane | 74-97-5 | 00008541 | 99% | 2,018.0 µg/mL | +/- 113.3890 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

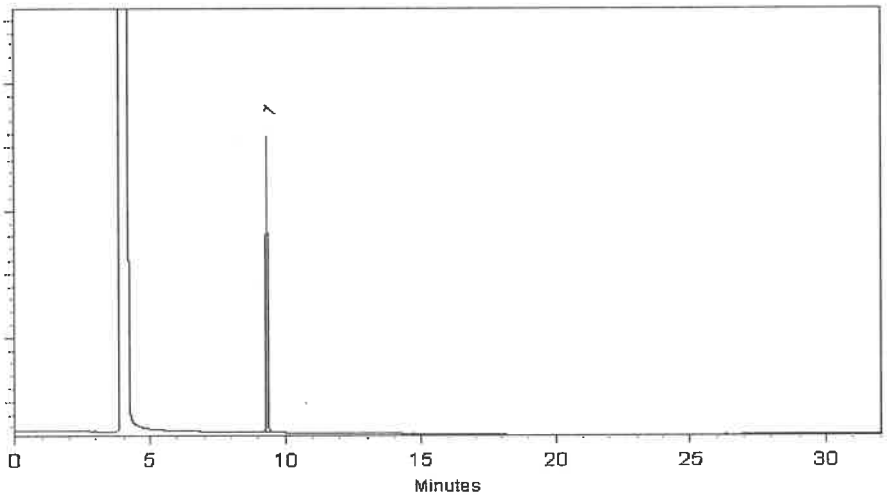
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 03-Jan-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555582 **Lot No.:** A0196865

**Description :** Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2-Dichloroethane-d4 | 17060-07-0 | PR-32845 | 99% | 25,036.0 µg/mL | +/- 1,417.9179 |
| 2 | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4 | 184975 | 99% | 25,132.0 µg/mL | +/- 1,423.3549 |
| 3 | Dibromofluoromethane | 1868-53-7 | 022013 | 99% | 25,040.0 µg/mL | +/- 1,418.1445 |
| 4 | Toluene-d8 | 2037-26-5 | PR-33397 | 99% | 25,028.0 µg/mL | +/- 1,417.4648 |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

Russ Bookhamer - Operations Technician I

**Date Mixed:** 11-Apr-2023 **Balance:** 1127510105

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

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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.

### Certified Uncertainty Value Notes:

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### Manufacturing Notes:

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### Handling Notes:

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## CERTIFIED REFERENCE MATERIAL

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ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30489 **Lot No.:** A0209618

**Description :** 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Methyl acetate | 79-20-9 | SHBP3100 | 99% | 2,019.3 µg/mL | +/- 69.7974 |
| 2 | Vinyl acetate | 108-05-4 | RP231030CTH | 98% | 2,016.8 µg/mL | +/- 69.7112 |
| 3 | Ethyl acetate | 141-78-6 | SHBQ9682 | 99% | 2,010.7 µg/mL | +/- 69.4979 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,016.0 µg/mL | +/- 69.6822 |
| 5 | Propyl acetate | 109-60-4 | P8XLN | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 6 | Butyl acetate | 123-86-4 | SHBP6314 | 99% | 2,007.3 µg/mL | +/- 69.3826 |
| 7 | Amyl acetate | 628-63-7 | 41325/1 | 97% | 2,004.7 µg/mL | +/- 69.2905 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

## Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

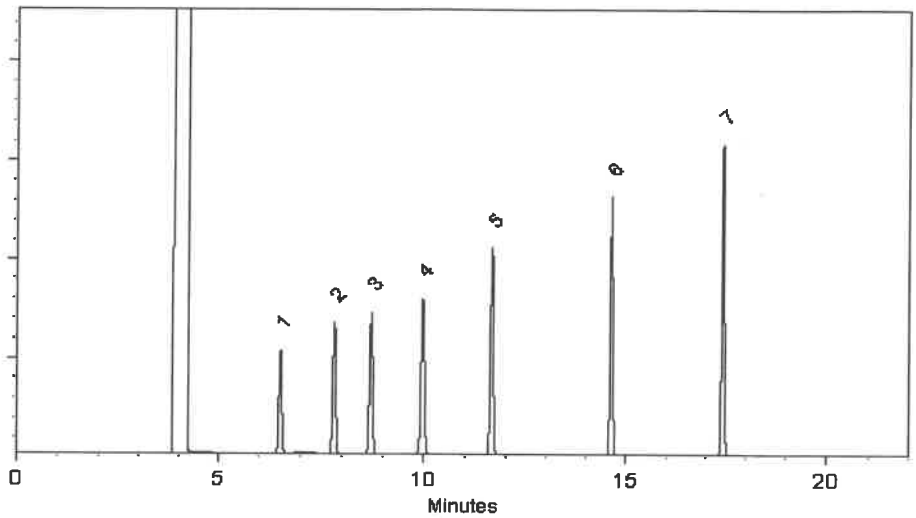
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

**Date Mixed:** 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

**Date Passed:** 01-Apr-2024

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
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## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

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## CERTIFIED REFERENCE MATERIAL

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ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30489 **Lot No.:** A0209618

**Description :** 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Methyl acetate | 79-20-9 | SHBP3100 | 99% | 2,019.3 µg/mL | +/- 69.7974 |
| 2 | Vinyl acetate | 108-05-4 | RP231030CTH | 98% | 2,016.8 µg/mL | +/- 69.7112 |
| 3 | Ethyl acetate | 141-78-6 | SHBQ9682 | 99% | 2,010.7 µg/mL | +/- 69.4979 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,016.0 µg/mL | +/- 69.6822 |
| 5 | Propyl acetate | 109-60-4 | P8XLN | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 6 | Butyl acetate | 123-86-4 | SHBP6314 | 99% | 2,007.3 µg/mL | +/- 69.3826 |
| 7 | Amyl acetate | 628-63-7 | 41325/1 | 97% | 2,004.7 µg/mL | +/- 69.2905 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

## Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

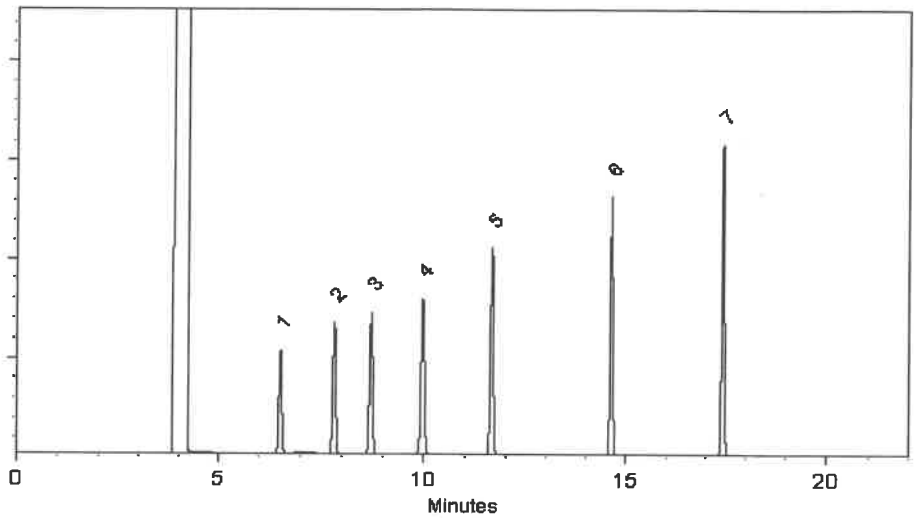
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl

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Sam Moodler - Operations Tech I

**Date Mixed:** 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

**Date Passed:** 01-Apr-2024

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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## Purity Notes:

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## Manufacturing Notes:

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## Handling Notes:

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555581 **Lot No.:** A0210184

**Description :** Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2027 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 3855-82-1 | PR-30447 | 99% | 25,212.0 µg/mL | +/- 1,427.8857 |
| 2 | 1,4-Difluorobenzene | 540-36-3 | MKCS8657 | 99% | 25,220.0 µg/mL | +/- 1,428.3388 |
| 3 | Chlorobenzene-d5 | 3114-55-4 | PR-31132 | 99% | 25,116.0 µg/mL | +/- 1,422.4487 |
| 4 | Pentafluorobenzene | 363-72-4 | MKCR9383 | 99% | 25,180.0 µg/mL | +/- 1,426.0734 |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

John Friedline - Operations Technician I

**Date Mixed:** 11-Apr-2024 **Balance:** 1127510105

REVIEWED

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

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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.

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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 v14

# Certificate of Analysis

*chromatographic plus*

v14697-to-14726

ACCREDITED
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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0210618

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBQ8504 | 99% | 5,014.8 µg/mL | +/- 173.2883 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBQ4704 | 99% | 5,012.4 µg/mL | +/- 173.2054 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99% | 5,011.6 µg/mL | +/- 173.1777 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,013.0 µg/mL | +/- 173.2261 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)

**CAS #** 67-56-1/7732-18-5

**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

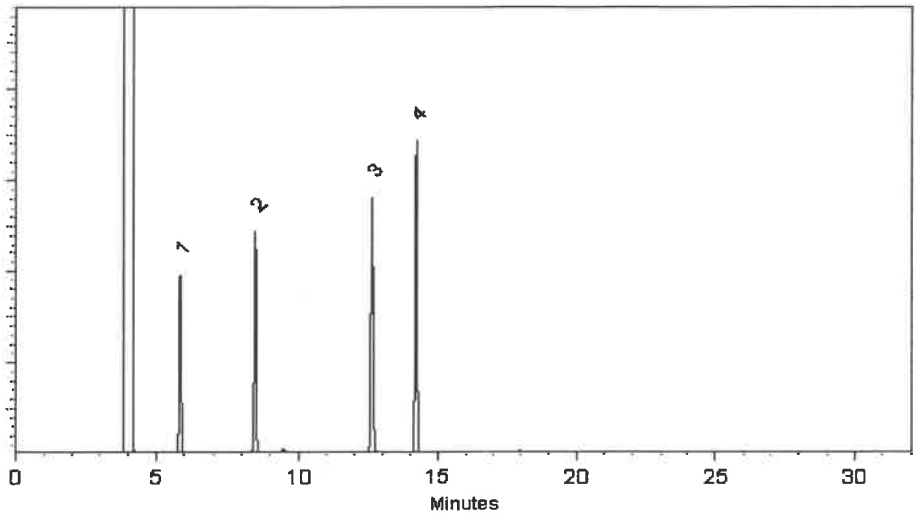
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

**Date Mixed:** 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 24-Apr-2024

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

30 v14

# Certificate of Analysis

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ACCREDITED
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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0210618

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBQ8504 | 99% | 5,014.8 µg/mL | +/- 173.2883 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBQ4704 | 99% | 5,012.4 µg/mL | +/- 173.2054 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99% | 5,011.6 µg/mL | +/- 173.1777 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,013.0 µg/mL | +/- 173.2261 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)

**CAS #** 67-56-1/7732-18-5

**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

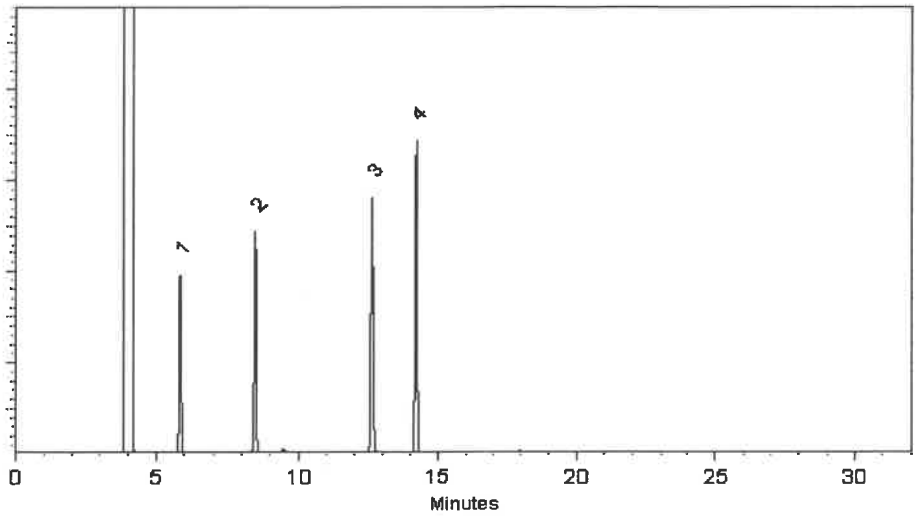
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

**Date Mixed:** 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 24-Apr-2024

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 v14

# Certificate of Analysis

*chromatographic plus*

v14697-to-14726

ACCREDITED
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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0210618

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBQ8504 | 99% | 5,014.8 µg/mL | +/- 173.2883 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBQ4704 | 99% | 5,012.4 µg/mL | +/- 173.2054 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99% | 5,011.6 µg/mL | +/- 173.1777 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,013.0 µg/mL | +/- 173.2261 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)

**CAS #** 67-56-1/7732-18-5

**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

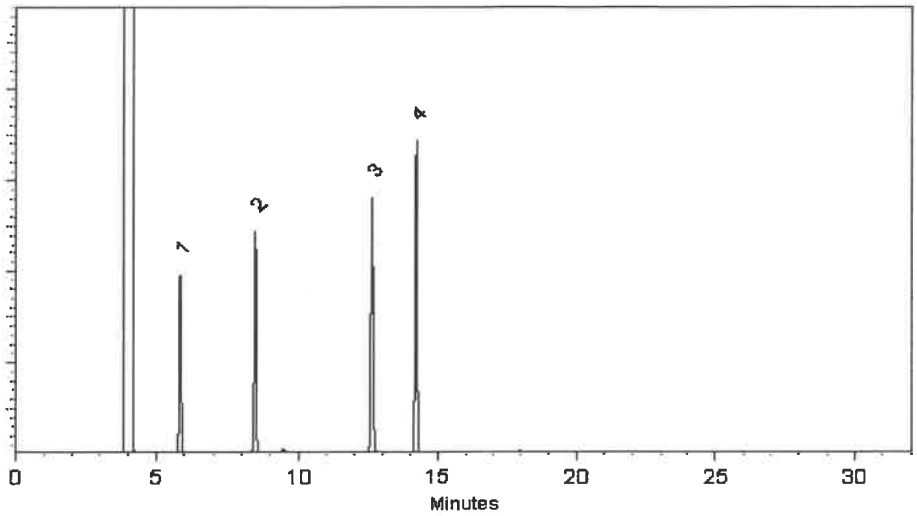
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

**Date Mixed:** 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 24-Apr-2024

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Rec 12/17/24

# CERTIFIED REFERENCE MATERIAL

30 Vial

# Certificate of Analysis

***chromatographic plus***

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** A0216826

**Description :** 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** May 31, 2031 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00022922 | 99% | 2,000.9 µg/mL | +/- 112.4144 |
| 2 | Chloromethane (methyl chloride) | 74-87-3 | 00022694 | 99% | 2,000.7 µg/mL | +/- 112.3998 |
| 3 | Vinyl chloride | 75-01-4 | 00015559 | 99% | 2,000.3 µg/mL | +/- 112.3779 |
| 4 | Bromomethane (methyl bromide) | 74-83-9 | 00017022 | 99% | 2,001.8 µg/mL | +/- 112.4650 |
| 5 | Chloroethane (ethyl chloride) | 75-00-3 | 107-401039114-1 | 99% | 2,000.1 µg/mL | +/- 112.3700 |
| 6 | Trichlorofluoromethane (CFC-11) | 75-69-4 | MKCJ8658 | 99% | 2,000.7 µg/mL | +/- 112.3992 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

**Carrier Gas:**
helium-constant flow 2.0 mL/min.

**Temp. Program:**
40°C (hold 6 min.) to 100°C
@ 6°C/min.

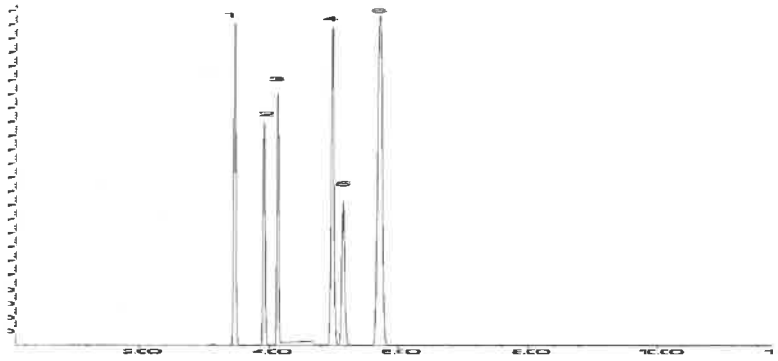
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
MSD

**Split Vent:**
Split ratio 10:1

**Inj. Vol**
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 04-Oct-2024

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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# CERTIFIED REFERENCE MATERIAL

30 Vial

# Certificate of Analysis

***chromatographic plus***

V14727 to
V14756

ACCREDITED
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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** A0216826

**Description :** 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** May 31, 2031 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00022922 | 99% | 2,000.9 µg/mL | +/- 112.4144 |
| 2 | Chloromethane (methyl chloride) | 74-87-3 | 00022694 | 99% | 2,000.7 µg/mL | +/- 112.3998 |
| 3 | Vinyl chloride | 75-01-4 | 00015559 | 99% | 2,000.3 µg/mL | +/- 112.3779 |
| 4 | Bromomethane (methyl bromide) | 74-83-9 | 00017022 | 99% | 2,001.8 µg/mL | +/- 112.4650 |
| 5 | Chloroethane (ethyl chloride) | 75-00-3 | 107-401039114-1 | 99% | 2,000.1 µg/mL | +/- 112.3700 |
| 6 | Trichlorofluoromethane (CFC-11) | 75-69-4 | MKCJ8658 | 99% | 2,000.7 µg/mL | +/- 112.3992 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

**Carrier Gas:**
helium-constant flow 2.0 mL/min.

**Temp. Program:**
40°C (hold 6 min.) to 100°C
@ 6°C/min.

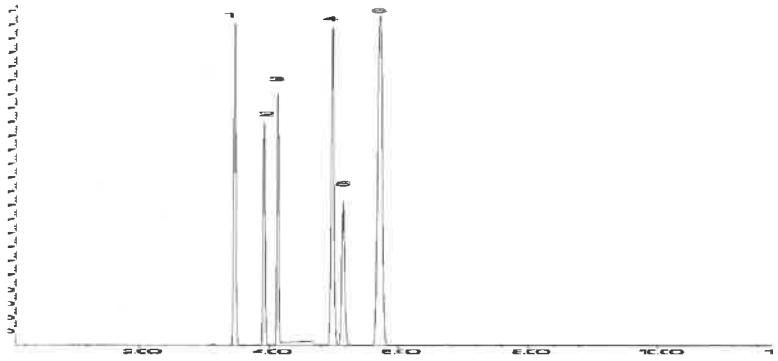
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
MSD

**Split Vent:**
Split ratio 10:1

**Inj. Vol**
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 04-Oct-2024

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Zoe Rec 01/08/21

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

ilac-MRA

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

# Certificate of Analysis

***chromatographic***

V14803 - V14822

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555408-SL **Lot No.:** A0220471

**Description :** Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2026 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Vinyl acetate | 108-05-4 | RD240423RSR | 99% | 8,066.0 µg/mL | +/- 278.7979 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

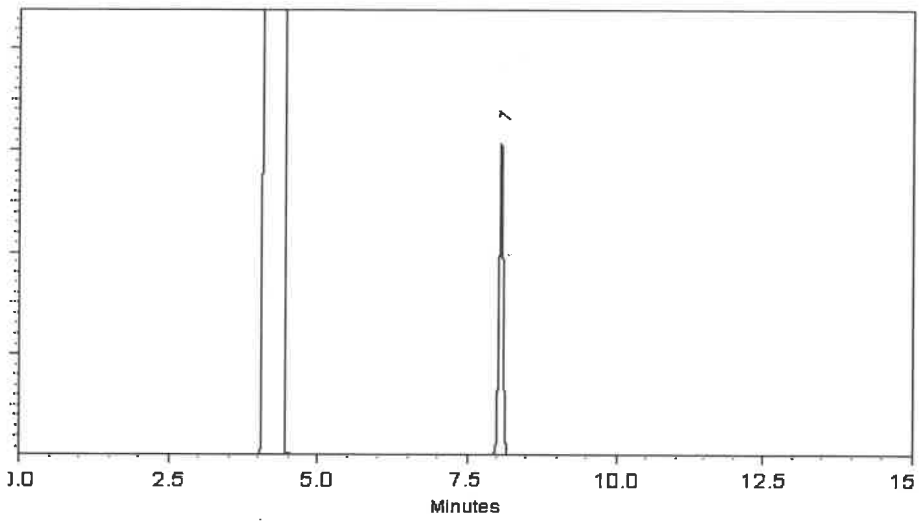
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

**Ethan Winiarski - Operations Tech I** | **Date Mixed:** 24-Dec-2024 | **Balance Serial #** 1127510105

**Dillan Murphy - Operations Technician I** | **Date Passed:** 02-Jan-2025

REVIEWED
By Jennifer Pollom at 7:12 am, Jan 06, 2025

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  *k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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10 vial Rec 01/08/25

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CERTIFIED REFERENCE MATERIAL

ilac-MRA

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Reference Material Producer
Certificate #3222.01

# Certificate of Analysis

*chromatographic*

V14793 to 14802

ilac-MRA

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-FL **Lot No.:** A0220563

**Description :** Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2026 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Vinyl acetate | 108-05-4 | RD240423RSR | 99% | 8,060.0 µg/mL | +/- 278.5905 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

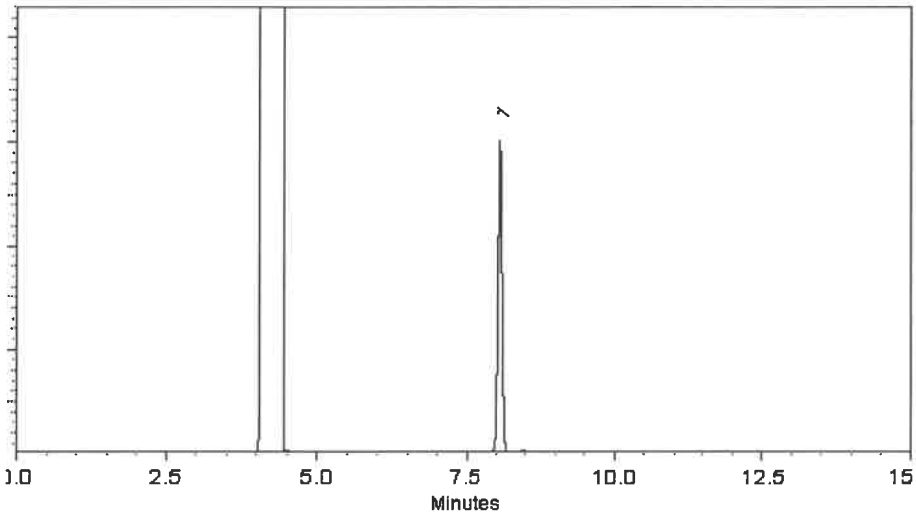
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 30-Dec-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

**Date Passed:** 02-Jan-2025

REVIEWED
By Jennifer Pulliso at 7:11 am, Jan 03, 2025

**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:

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.2 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis - Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
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For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

# SHIPPING DOCUMENTS

# CHEMTECH
## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. Q1194
COC Number 2041522

**CLIENT INFORMATION** (REPORT TO BE SENT TO:)

COMPANY: Gannet Fleming
ADDRESS: 1010 Abrams Ave
CITY Audobon STATE: PA ZIP: 19403
ATTENTION:
PHONE: FAX:

**CLIENT PROJECT INFORMATION**

PROJECT NAME: Amtrak Replacement of SB
PROJECT NO.: 50000878 LOCATION: Kearny, NJ
PROJECT MANAGER: Joe Krupansky
e-mail: QAQC@bemsys.com
PHONE: 610-310-8342 FAX:

**CLIENT BILLING INFORMATION**

BILL TO: Chemtech PO#:
ADDRESS: 284 Sheffield St
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha Beasley PHONE: 908-728-3148

**DATA TURNAROUND INFORMATION**

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

**DATA DELIVERABLE INFORMATION**

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT BEM EDD
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____

**ANALYSIS**

1 TCL VOCs+10 2 TCL PAH 3 TAL Metals 4 EPH 5 Cr(III) 6 Cr(VI) 7 8 9

**PRESERVATIVES** — A

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | B-110-SB01 | S | | X | 1/25/25 | 11:33 | 7 | X | X | X | X | X | X | | | | |
| 2. | B-110-SB02 | S | | X | 1/25/25 | 13:58 | 7 | X | X | X | X | X | X | | | | |
| 3. | B-113-SB01 | S | | X | 1/25/25 | 11:52 | 7 | X | X | X | X | X | X | | | | |
| 4. | B-113-SB02 | S | | X | 1/25/25 | 14:44 | 7 | X | X | X | X | X | X | | | | |
| 5. | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

**SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY**

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. [signature] | 1-25-25 16:22 | 1. [signature] 1-27-25 0700 |
| RELINQUISHED BY SAMPLER: 2. | DATE/TIME: | RECEIVED BY: 2. |
| RELINQUISHED BY SAMPLER: 3. | DATE/TIME: | RECEIVED BY: 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1°C °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO



WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

| Certified By | License No. |
|---|---|
| | |
| CAS EPA CLP Contract | 68HERH20D0011 |
| | |
| Connecticut | PH-0830 |
| | |
| DOD ELAP (ANAB) | L2219 |
| | |
| Maine | 2024021 |
| | |
| Maryland | 296 |
| | |
| New Hampshire | 255424 Rev 1 |
| | |
| New Jersey | 20012 |
| | |
| New York | 11376 |
| | |
| Pennsylvania | 68-00548 |
| | |
| Soil Permit | 525-24-234-08441 |
| | |
| Texas | T104704488 |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q1194 PORT06
**Client Name :** Portal Partners Tri-Venture
**Client-Contact :** Joseph Krupansky
**Invoice Name :** Portal Partners Tri-Venture
**Invoice Contact :** Joseph Krupansky

**Order Date :** 1/27/2025 9:35:00 AM
**Project Name :** Amtrak Sawtooth Bridges 2
**Receive DateTime :** 1/27/2025 7:00:00 AM
**Purchase Order :**

**Project Mgr :**
**Report Type :** NJ Reduced
**EDD Type :** EXCEL NJCLEANUP
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q1194-01 | B-110-SB01 | Solid | 01/25/2025 | 11:33 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q1194-02 | B-110-SB02 | Solid | 01/25/2025 | 13:58 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q1194-03 | B-113-SB01 | Solid | 01/25/2025 | 11:52 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q1194-04 | B-113-SB02 | Solid | 01/25/2025 | 14:44 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| ~~Q1194-08~~ | ~~EB~~ | ~~Water~~ | ~~01/25/2025~~ | ~~00:00~~ | 1/27/25 | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q1194-09 | FB | Water | 01/25/2025 | 00:00 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q1194-10 | TB | Water | 01/25/2025 | 00:00 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |

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

# LOGIN REPORT/SAMPLE TRANSFER

| | | | | | |
|---|---|---|---|---|---|
| **Order ID :** | Q1194 PORT06 | **Order Date :** | 1/27/2025 9:35:00 AM | **Project Mgr :** | |
| **Client Name :** | Portal Partners Tri-Venture | **Project Name :** | Amtrak Sawtooth Bridges 2 | **Report Type :** | NJ Reduced |
| **Client Contact :** | Joseph Krupansky | **Receive DateTime :** | 1/27/2025 7:00:00 AM | **EDD Type :** | EXCEL NJCLEANUP |
| **Invoice Name :** | Portal Partners Tri-Venture | **Purchase Order :** | | **Hard Copy Date :** | |
| **Invoice Contact :** | Joseph Krupansky | | | **Date Signoff :** | |

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|

**Relinguished By :** [signature]

**Date / Time :** 1/27/25 1120

**Received By :** Sam

**Date / Time :** 01/27/25 11:20 Reg#6 PZ2 Reg#5

**Storage Area :** **VOA Refridgerator Room**